WILLIAMS®

WORK TOOLS

WILLIAMS®

INNOVATING FOR 140 YEARS

Williams has made strong, trusted tools for Industrial professionals since 1882. Due to their precise manufacturing process, Williams' products were used in the countless industrial shops of 19th century America.

From innovative products that helped make us famous, like Superrench®, Supersocket™, and Supertorque™ we're carrying on the tradition of forging top-quality tools that hard-working people depend on.

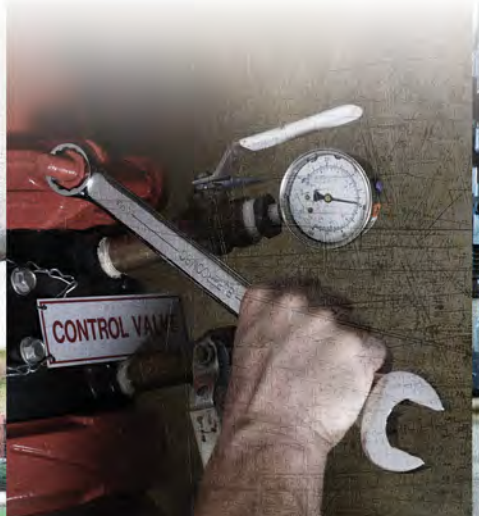
Today with world-class factories across the United States, Williams' heritage of high-quality, industrial-focused tools continues to deliver a brand of tools that is ready to work.

EXPERIENCE MATTERS

At Williams, we believe selling a product is more than an exchange of tools. When you work with Williams, you work with industrial tool professionals whose experience in the field and the factory help you make smart decisions for your business.

With demanding timelines, unusually tough conditions and many other obstacles businesses face today, it is important to partner with a company that understands your challenges.

Williams and our distributors are here to help you find the right solutions for your individual business. Williams has a network of professionals with knowledge you can count on.



TRUSTED. STRONG. VALUED.

BUILT FOR INDUSTRIAL APPLICATIONS

Our growing assortment includes tools that are engineered to withstand demanding needs of industrial environments. Where the hard work is done, and steel strength is essential.

Williams' special blend of steel allows for a higher heat treat than average steel. This means each tool gets just the right hardness, toughness and strength for industrial applications.

And we know how to make great tools. Williams tools keep factories running safely and efficiently. They build and maintain ships. They keep power generation plants and oil production flowing and so much more. With 8,000+ tools in our portfolio, you will find the right tools to get the job done.

UNDERSTANDING WORK

With almost 140 years of experience, people trust Williams to design and manufacture tools that are safe, strong and reliable.

We know that keeping your people safe is the top priority. That's why we offer not just the safest products in the business, but the training and instruction on how to use them properly.

Our training programs help tool users learn about dangers involving misused, modified, and poorly maintained tools and how to determine the right tool for any and every job. In addition, we teach importance of ergonomics, tethered tools, proper calibration and more.

WILLIAMS®

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MASTER SETS

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SETS DEVELOPED WORKING SIDE BY SIDE WITH INDUSTRY PROFESSIONALS

- Whatever the industry, Williams® Master Tool Sets will keep your equipment and assets working at peak performance
- Sets available in various formats and sizes to meet the specific needs of your application
    - Electrical Maintenance Sets
    - General Maintenance Sets
    - Heavy Duty Maintenance Sets
    - Oilfield Tool Sets
    - Mechanical Maintenance Sets
    - Technicians Service Sets
    - Tools@Height ™ Sets
- Tackle increasingly complex maintenance tasks with Williams® Master Tool Sets
- A full complement of hand tools
- Get your work done faster, easier and safer
- Tool Storage Included

MASTER SETS

PROVIDING YOU WITH THE RIGHT TOOLS FOR YOUR SPECIFIC TASKS

WILLIAMS

TOOLS@HEIGHT MASTER MAINTENANCE TOOL SET

Contains the following tools:

Product Category	Product Category
Adjustable & Miscellaneous Wrenches	Miscellaneous Tools
Combination, Box, & Open End Wrenches	Pliers
Hammers	Pry Bars, Punches & Chisels
Hand Sockets, Ratchets, & Accessories	Screwdrivers & Nut drivers
Hex Keys & Sockets	Tool Storage
Impact Sockets & Accessories	Tools@Height Tethers, Lanyards,& Specialties

Set Configurations Available

Product Code	Description
JHWSC409THTB	Complete Tools@Height Master Maintenance Tool Set With Tool Boxes
JHWWSC409TH	Complete Tools@Height Master Maintenance Tool Set Only

Tool Boxes Included

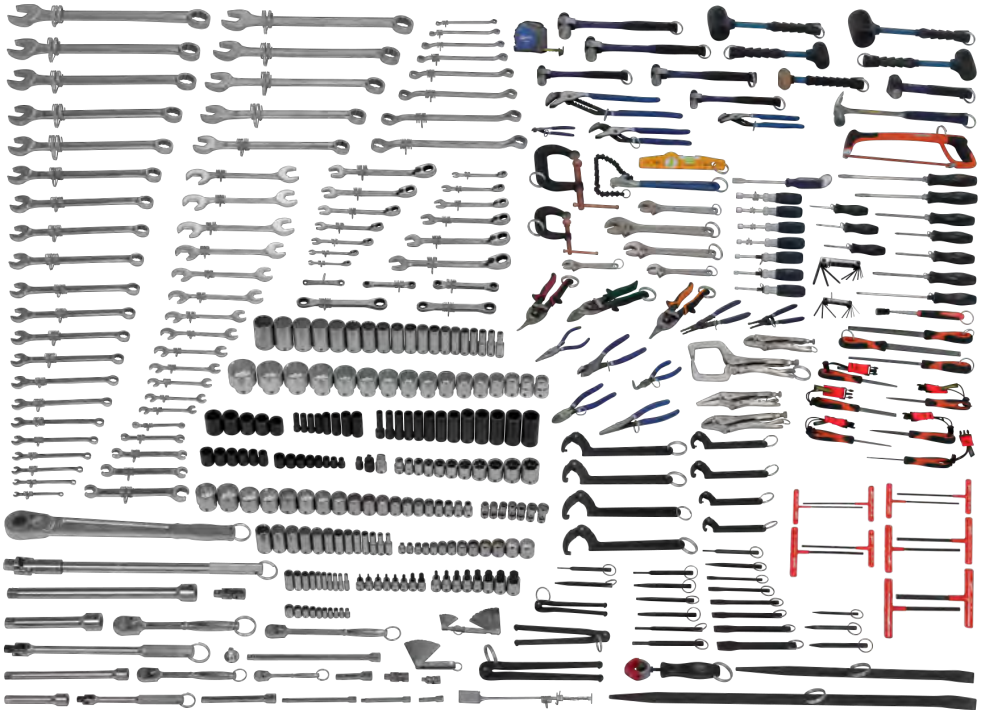
Product Code	Description
JHWW40TC4	40" Wide x 20" Deep 4 Drawer Top Chest
JHWW40RC7	40" Wide x 20" Deep 7 Drawer Tool Cabinet

Features

- The Tools@Height Master Maintenance set provides a great assortment of tools for all types of maintenance applications
- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Productivity and safety right out of the box
- Many applications - any industry where a dropped tool could harm personnel, damage machinery or cost production time
- High level uses - drilling derricks, wind turbines, cranes, buildings, bridges, masts, powerlines, hangars, scaffold builders
- Low level uses - stop tools dropping onto flight hardware, into engines, machinery, food production lines, vats, mine shafts, even under water uses
- Set is available with foamed tool control drawers on a special order basis
- Tools@Height sets contain an assortment of pouches and lanyards designed for use with a suitable belt such as the Comfort and Utility belts on page 96

JHWW40TC4

JHWW40RC7



JHWWSC409TH

⚠WARNING

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JHWW26TC4

JHWW26RC7

TOOLS@HEIGHT
INTERMEDIATE MAINTENANCE SERVICE SET

Contains the following tools:

Product Category	Product Category
Adjustable & Miscellaneous Wrenches	Miscellaneous Tools
Combination, Box, & Open End Wrenches	Pliers
Hammers	Pry Bars, Punches & Chisels
Hand Sockets, Ratchets, & Accessories	Screwdrivers & Nut drivers
Hex Keys & Sockets	Tool Storage
Impact Sockets & Accessories	Tools@Height Tethers, Lanyards,& Specialties

Set Configurations Available

Product Code	Description
JHWSC225THTB	Complete Tools@Height Intermediate Tool Set With Tool Boxes
JHWWSC225TH	Complete Tools@Height Intermediate Tool Set Only

Tool Boxes Included

Product Code	Description
JHWW26TC4	26" Wide x 20" Deep 4 Drawer Top Chest
JHWW26RC7	26" Wide x 20" Deep 7 Drawer Tool Cabinet

Features

- The Tools@Height Intermediate Maintenance set provides a full complement of tools
- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Productivity and safety right out of the box
- Many applications - any industry where a dropped tool could harm personnel, damage machinery or cost production time
- High level uses - drilling derricks, wind turbines, cranes, buildings, bridges, masts, powerlines, hangars, scaffold builders
- Low level uses - stop tools dropping onto flight hardware, into engines, machinery, food production lines, vats, mine shafts, even under water uses
- Set is available with foamed tool control drawers on a special order basis
- Tools@Height sets contain an assortment of pouches and lanyards designed for use with a suitable belt such as the Comfort and Utility belts on page 96

JHWWSC225TH

TOOLS@HEIGHT GENERAL MAINTENANCE SERVICE SET

Contains the following tools:

Product Category	Product Category
Adjustable & Miscellaneous Wrenches	Pliers
Combination, Box, & Open End Wrenches	Pry Bars, Punches & Chisels
Hammers	Screwdrivers & Nut drivers
Hand Sockets, Ratchets, & Accessories	Tool Storage
Hex Keys & Sockets	Tools@Height Tethers, Lanyards,& Specialties
Miscellaneous Tools	

Set Configurations Available

Product Code	Description
JHWSC116THTB	Complete Tools@Height General Service Tool Set With Tool Box
JHWWSC116TH	Complete Tools@Height General Service Tool Set Only

Tool Boxes Included

Product Code	Description
JHW50950B	32" Wide x 19" Deep Job Site Box

Features

- The Tools@Height General Maintenance Service set provides a solid complement of tools
- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Productivity and Safety right out of the box
- Many applications - any industry where a dropped tool could harm personnel, damage machinery or cost production time
- High level uses - drilling derricks, wind turbines, cranes, buildings, bridges, masts, powerlines, hangars, scaffold builders
- Low level uses - stop tools dropping onto flight hardware, into engines, machinery, food production lines, vats, mine shafts, even under water uses
- Set is available with foamed tool control drawers on a special order basis
- Tools@Height sets contain an assortment of pouches and lanyards designed for use with a suitable belt such as the Comfort and Utility belts on page 96

JHW50950B

JHWWSC116TH

WARNING

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TOOLS@HEIGHT BASIC MAINTENANCE SERVICE SET

Contains the following tools:

Product Category	Product Category
Adjustable & Miscellaneous Wrenches	Miscellaneous Tools
Combination, Box, & Open End Wrenches	Pliers
Hammers	Pry Bars, Punches & Chisels
Hand Sockets, Ratchets, & Accessories	Screwdrivers & Nut drivers
Hex Keys & Sockets	Tools@Height Tethers, Lanyards,& Specialties

Set Configurations Available

Product Code	Description
JHWWSC-72-TH	Complete Tools@Height Basic Maintenance Tool Set in Safe Bucket

Features

- Furnished in Safe Bucket for easy portability
- Safety right out of the box
- The Tools@Height Basic Maintenance set provides a good start to a Tools@Height tool program
- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Many applications - any industry where a dropped tool could harm personnel, damage machinery or cost production time
- High level uses - drilling derricks, wind turbines, cranes, buildings, bridges, masts, powerlines, hangars, scaffold builders
- Low level uses - stop tools dropping onto flight hardware, into engines, machinery, food production lines, vats, mine shafts, even under water uses
- Williams' Tools@Height sets contain an assortment of pouches and lanyards designed for use with a suitable belt
- An assortment of Comfort and Utility belts can be found on page 96
- The full assortment of Tools@Height lanyards, tethers, and other accessories is on pages 91 through 97

JHWWSC-72-TH

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TOOL@HEIGHT STARTER PLUS SET

Contains the following tools:

Product Category
Adjustable Wrenches
Combination Wrenches
File
Hammer
Hand Sockets, Ratchets & Accessories
Pick up Tool
Pliers
Screwdriver
Tape Measure
Tools@Height Tethers, Lanyards & Specialties
Grand Total

Set Configurations Available

Product Code	Description
WSC-45-TH	Complete Tools@Height Starter Set in Safe Bucket

Features

- The ideal way to start a drop prevention program
- Use where dropped tools can harm personnel, damage components, or cause down time
- Excellent assortment of basic hand tools for most maintenance applications
- Furnished in Safe Bucket for easy portability

WSC-45-TH

TOOL@HEIGHT STARTER SET

Contains the following tools:

Product Category
Adjustable Wrenches
File
Hammer
Pick up Tool
Pliers
Screwdriver
Tape Measure
Tools@Height Tethers, Lanyards & Specialties

Set Configurations Available

Product Code	Description
JHWWSC-27-TH	Complete Tools@Height Starter Set in Safe Bucket

Features

- Ideal for general maintenance work in the factory or job site
- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies.
- Includes tools and assortment of pouches and lanyards designed for use with a suitable belt.
- Williams' Tools@Height sets contain an assortment of pouches and lanyards designed for use with a suitable belt
- An assortment of Comfort and Utility belts can be found on page 96
- The full assortment of Tools@Height lanyards, tethers, and other accessories is on pages 91 through 97

JHWWSC-27-TH

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KWTIWWKIT

TOOLS@HEIGHT IRONWORKER'S TOOLKIT

Contains the following tools:

Product Category	Product Category
Pliers	Hammer
Adjustable Construction Wrench	Measuring Tape
Structural Wrench	Tools@Height Tethers, Lanyards & Specialties
Bull Pin	

Set Configurations Available

Product Code	Description
KWTIWWKIT	Ironworker's Tool Kit

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Tool Kit includes the tools, tethers, lanyards needed for ironworkers to work at height

KWTBM

TOOLS@HEIGHT BOILMAKER'S TOOL KIT

Contains the following tools:

Product Category	Product Category
Pliers	Torpedo Level
Adjustable Construction Wrench	Hammer
Open End Structural Wrench	Measuring Tape
Bull Pin	Tools@Height Tethers, Lanyards & Specialties

Set Configurations Available

Product Code	Description
KWTBM	Boilmaker's Tool Kit

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Tool Kit includes the tools, tethers, lanyards needed to keep boilermakers safe and productive while working at height

KWTHRSGHR

TOOLS@HEIGHT HRSG HIGH RIGGING TOOLKIT

Contains the following tools:

Product Category	Product Category
Pliers	Hammer
Adjustable Construction Wrench	Measuring Tape
Open End Structural Wrench	Sleever Bar
Bull Pin	Tools@Height Tethers, Lanyards & Specialties
Torpedo Level	

Set Configurations Available

Product Code	Description
KWTHRSGHR	HRSG High Rigging Toolkit

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Tool kit includes bull pin, sleever bars, wrenches, hammer, torpedo level, measuring tape and many more tools with attachment points along with the tethers and lanyards for working at height

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TOOLS@HEIGHT PIPEFITTER'S FOREMAN'S TOOLKIT

Contains the following tools:

Product Category	Product Category
Combination Wrenches	Pinch Bar
Sockets	Hex Keys
Drive Tools	Tape Measure
Screwdrivers	Tool Box
Files	Pin Release Tool
Hammer	Tool Pouch

Set Configurations Available

Product Code	Description
KWTPFFOR	Pipefitter's Foreman's Toolkit

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Pipefitter's Foreman's Tool kit includes sockets, drive tools, combination wrenches, screwdrivers and many more tools with attachment points for working at height

KWTPFFOR

TOOLS@HEIGHT INDIVIDUAL PIPEFITTER'S TOOLKIT

Contains the following tools:

Product Category	Product Category
Wedges	Adjustable Wrenches
Utility Superjoint Pliers	Measuring Tape
Side Cutters	Tools@Height Tethers, Lanyards & Specialties

Set Configurations Available

Product Code	Description
KWTPFIND	Individual Pipefitter's Toolkit

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Individual Pipefitter's Tool kit includes wedges, pliers, side cutters, hammers, adjustable wrenches and many more tools with attachment points along with the tethers and lanyards for working at height

KWTPFIND

TOOLS@HEIGHT PIPEFITTER'S GANG BOX KIT

Contains the following tools:

Product Category	Product Category
Utility Superjoint Pliers	Chisels & Punches
Side Cutters	Ratchet
Adjustable Wrenches	Pipe Wrench
Measuring Tape	Plastic Tool Box
Hammers	

Set Configurations Available

Product Code	Description
KWTPFBOX	Pipefitter's Gang Box Kit

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Pipefitter's Gang Box Kit includes pliers, hammer, adjustable wrenches and many more tools with attachement points for working at height

KWTPFBOX

WARNING

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KWTELEKITM

TOOLS@HEIGHT INDIVIDUAL ELECTRICIAN'S TOOLKIT

Contains the following tools:

Product Category	Product Category
Pliers, Side Cutter & Crimper	Files
Screwdrivers	Superjoint Pliers
Adjustable Wrenches	Hammers
Chisels & Punches	Hex Key
Hacksaw Frame	Measuring Tape
Torpedo Level	Tools@Height Tethers, Lanyards & Specialties
Miscellaneous Tools	

Set Configurations Available

Product Code	Description
KWTELEKITM	Individual Electrian's Toolkit with S/M Comfort Belt
KWTELEKITL	Individual Electrian's Toolkit with L/XL Comfort Belt
KWTELEKITXL	Individual Electrian's Toolkit with 2X/3X Comfort Belt

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- The Individual Electrician's Toolkit contains an assortment of tools with engineered attachment points, tethers and laynards designed to keep electrican's safe and productive while working at heights

KWTELECWKT

TOOLS@HEIGHT ELECTRICIAN CREW KIT

Contains the following tools:

Product Category	Product Category
C-Clamps	Pin Release Tool
Pliers	Sockets
Pipe Wrenches	Combination Wrenches
Files	Level
Hammer	Lift Bucket & Hardhat Lanyard Strap
Drive Tools	

Set Configurations Available

Product Code	Description
KWTELECWKT	Electrian's Crew Kit

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- The Electrician's Crew Kit contains an assortment of tools with engineered attachment points, tethers and laynards designed to keep electrican's safe and productive while working at heights

WILLIAMS

MAMMOTH TOOL SET

The largest tool set in the industry.
Contains the following tools:

Product Category	Product Category
Chisel and Punches	Miscellaneous Tools
Clamps	Pliers
Electrical Crimping Pliers	Prybars
Files	Ratchets, Drive Tools, and Accessories
Hammers	Saws and Saw Blades
Hand Sockets	Scrapers
Hex Keys	Screwdrivers
Holesaw Set	Snips
Impact Drive Tools	Tool Boxes
Impact Sockets	Torque Wrenches
Knives	Wrenches

Set Configurations Available

Product Code	Description
JHWMAMMOTHMM	Mammoth Tool Set with Metric Wrenches and Sockets Only
JHWMAMMOTHSAE	Mammoth Tool Set with Fractional Wrenches and Sockets Only
JHWMAMMOTH	Mammoth Tool Set Only
JHWMAMMOTHTB	Complete Mammoth Tool Set with Tool Boxes

Tool Boxes Included

JHWW40TC4	40" Wide x 20" Deep 4-Drawer Top Chest
JHWW40RC7	40" Wide x 20" Deep 7-Drawer Roll Cabinet
JHWW55TC10	55" Wide x 20" Deep 10-Drawer Top Chest
JHWW55RC11	55" Wide x 20" Deep 11-Drawer Roll Cabinet
JHW50721	3-Drawer Service Cart with Lid

Features

- It's better to have it and not need it than need it and not have it - and with this tool set, you're almost certain to have what you need. This set contains the tools to handle almost any job your shop is likely to see, in both fractional and metric sizes. It includes a comprehensive assortment of sockets, ratchets, and accessories in 1/4", 3/8", 1/2", and 3/4" drive, for both hand and impact use. A full complement of wrenches in a number of styles helps you tackle increasingly complex maintenance tasks. A comprehensive assortment of screwdrivers, pliers, hammers, punches and chisels, is there when you need them, and specialty items such as saws, scrapers, and other tools for industrial maintenance mechanics and tradesmen round out this truly Mammoth tool set.
- You'll want to keep your tools safe and secure, and our industry-leading Mammoth Tool Set includes the storage cabinets necessary to do that. Two top-chest / roll-cabinet combinations are included, as well as a rolling three-drawer tool cart. A total of 35 drawers and over 75,000 cubic inches of storage capacity will help you organize your tools effectively. And the mobile tool cart helps bring your tools to the job, where you need them.
- Whatever the industry, this set will help you keep your equipment and assets working, helping you compete more effectively. Get your work done faster, easier, and safer with the Mammoth Tool Set from Williams. All other tool sets are simply ordinary.

Professional industrial cabinets JHWW40RC7-JHWW40TC4 are also included in JHWMAMMOTHTB

WARNING

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JHWMAMMOTHTB

MEGA TOOL SET

A comprehensive assortment. Contains the following tools:

Product Category	Product Category	Product Category	Product Category
Chisel and Punches	Hand Sockets	Miscellaneous Tools	Scrapers
Clamps	Hex Keys	Pliers	Screwdrivers
Electrical Crimping Pliers	Impact Sockets	Prybars	Snips
Files	Impact Drive Tools	Ratchets, Drive Tools, and Accessories	Tool Boxes
Hammers	Knives	Saws and Saw Blades	Torque Wrenches

Set Configurations Available

Product Code	Description
JHWMEGAMM	Mega Tool Set with Metric Wrenches and Sockets Only
JHWMEGASAE	Mega Tool Set with Fractional Wrenches and Sockets Only
JHWMEGA	Mega Tool Set Only
JHWMEGATB	Complete Mega Tool Set with Tool Boxes

Tool Boxes Included

JHWW55TC10	55" Wide x 20" Deep 10-Drawer Top Chest
JHWW55RC11	55" Wide x 20" Deep 11-Drawer Roll Cabinet
JHW50721	3-Drawer Service Cart with Lid

Features

- The Mega Set contains a comprehensive assortment of tools, in both fractional and metric sizes. Includes an extensive assortment of sockets, ratchets, and accessories in 1/4", 3/8", 1/2", and 3/4" drive, for both hand and impact use. A full complement of wrenches in a number of styles helps you tackle increasingly complex maintenance tasks. Over 150 screwdrivers, pliers, hammers, punches and chisels, are included, and specialty items such as saws, scrapers, and other tools for industrial maintenance mechanics and tradesmen round out the Mega Set from Williams.
- Mega Set includes the tool storage cabinets necessary to organize your tools. A top-chest / roll-cabinet combination is included, as well as a rolling three-drawer tool cart. A total of 26 drawers and over 45,000 cubic inches of storage capacity will help you store your tools effectively. The mobile tool cart helps bring your tools to the job, where you need them.
- Get your work done faster, easier, and safer with the Mega Tool Set from Williams. All other tool sets are simply ordinary.

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JHWMEGATB

MAXXUM TOOL SET

Contains the following tools:

Product Category	Product Category	Product Category	Product Category
Chisel and Punches	Hex Keys	Prybars	Tool Boxes
Clamps	Impact Sockets	Ratchets, Drive Tools, and Accessories	Torque Wrenches
Electrical Crimping Pliers	Impact Drive Tools	Saws and Saw Blades	Wrenches
Files	Knives	Scrapers	
Hammers	Miscellaneous Tools	Screwdrivers	
Hand Sockets	Pliers	Snips	

Set Configurations Available

Product Code	Description
JHWMAXXUMMM	Maxxum Tool Set with Metric Wrenches and Sockets Only
JHWMAXXUMSAE	Maxxum Tool Set with Fractional Wrenches and Sockets Only
JHWMAXXUM	Maxxum Tool Set Only
JHWMAXXUMTB	Complete Maxxum Tool Set with Tool Boxes

Tool Boxes Included

JHWW55TC10	55" Wide x 20" Deep 10-Drawer Top Chest
JHWW55RC11	55" Wide x 20" Deep 11-Drawer Roll Cabinet
JHW50721	3-Drawer Service Cart with Lid

Features

- The Maxxum Set contains a full complement of tools, in both fractional and metric sizes. It includes an assortment of sockets, ratchets, and accessories in 1/4", 3/8", and 1/2" drive, for both hand and impact use. Hand wrenches in a number of styles helps you tackle increasingly complex maintenance tasks. Over 100 screwdrivers, pliers, hammers, punches and chisels, are included, and specialty items such as saws, scrapers, and other tools for industrial maintenance mechanics and tradesmen round out the Maxxum Set from Williams.
- Maxxum includes the tool storage cabinets necessary to organize your tools. A top-chest / roll-cabinet combination is included, as well as a rolling three-drawer tool cart. A total of 26 drawers and over 35,000 cubic inches of storage capacity will help you store your tools effectively. The mobile tool cart helps bring your tools to the job, where you need them.
- Get your work done faster, easier, and safer with the Maxxum Tool Set from Williams. All other tool sets are simply ordinary.

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JHWMAXXUM

MONSTER TOOL SET

Contains the following tools:

Product Category	Product Category	Product Category
Crowfoot Wrenches	Miscellaneous Tools	Screwdriver
Hacksaw Frame	Nut drive	Snips
Hammer	Pliers	Sockets, Ratchets, Drive Tools and Accessories
Hex Key	Prybars	Tape Measure
Knives	Punch & Chisels	Wrenches

Set Configurations Available

Product Code	Description
JHWMONSTER	Monster Tool Set Only
JHWMONSTERTB	Complete Monster Tool Set with Tool Boxes

Tool Boxes Included

JHWW55TC10	55" Wide x 20" Deep 10 Drawer Top Chest
JHWW55RC11	55" Wide x 20" Deep 11 Drawer Tool Cabinet

Features

- The Monster Set contains a full complement of tools, in both fractional and metric sizes. It includes an assortment of sockets, ratchets, and accessories in 1/4", 3/8" and 1/2" drive.
- Hand wrenches in a number of styles helps you tackle increasingly complex maintenance tasks. Also included are screwdrivers, pliers, hammers, punches and chisels, are included, and specialty items such as hacksaws, tape measure, and other tools for industrial maintenance mechanics and tradesmen round out this Master set from Williams.
- Includes the tool storage cabinets necessary to organize your tools. A top-chest /roll-cabinet combination is included.
- Get your work done faster, easier, and safer with this Monster Tool Set from
- Williams. All other tool sets are simply ordinary.

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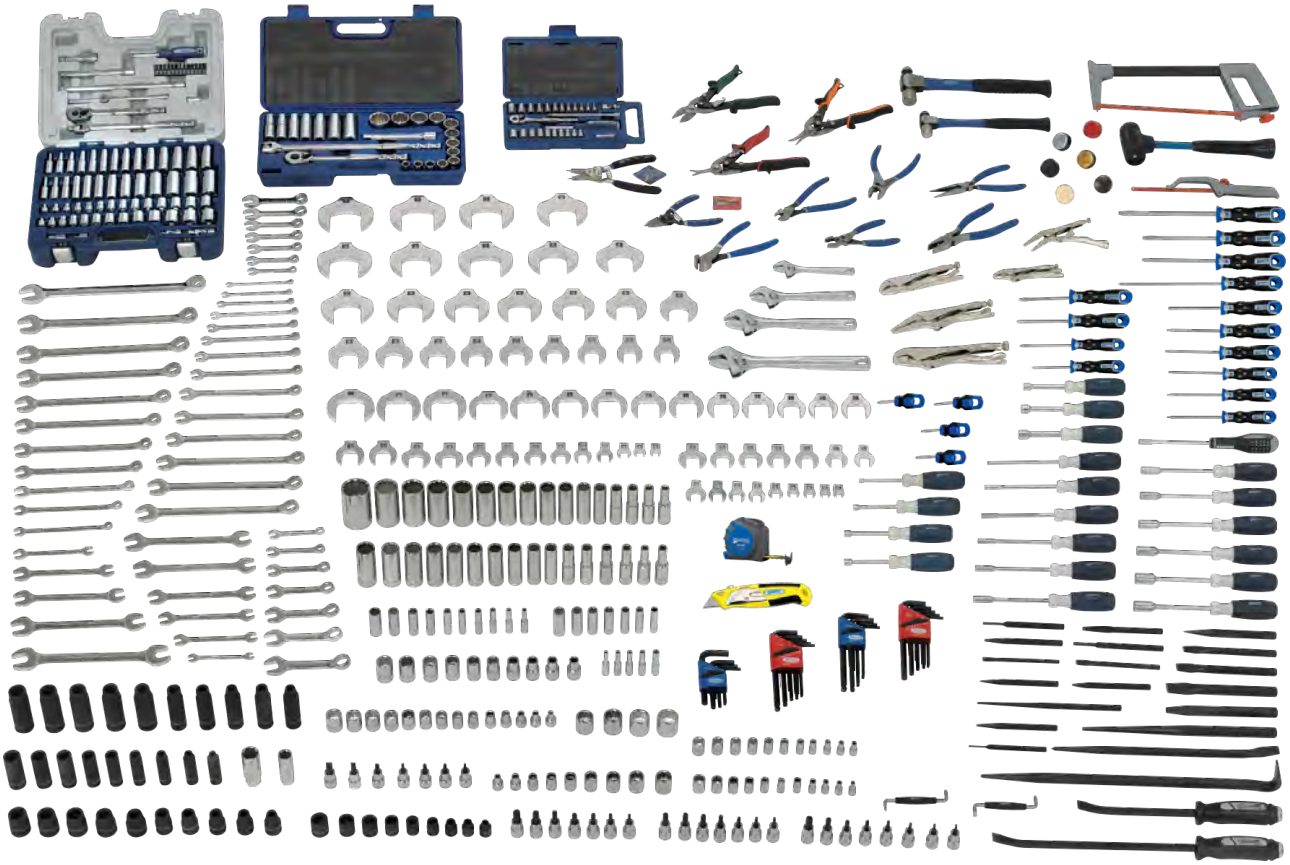
JHWW55TC10

JHWW55RC11



JHWMONSTER

MASTER MAINTENANCE TOOL SET

Contains the following tools:

Product Category	Product Category	Product Category	Product Category
Chisel and Punches	Hand Sockets	Pliers	Screwdrivers
Clamps	Impact Drive Tools	Ratchets, Drive Tools, and Accessories	Snips
Files	Impact Sockets	Saws and Saw Blades	Tool Boxes
Hammers	Miscellaneous Tools	Scrapers	Wrenches

Set Configurations Available

Product Code	Description
JHWMASTER	Master Maintenance Tool Set Only
JHWMASTERTB	Complete Master Maintenance Tool Set with Tool Boxes

Tool Boxes Included

JHWW40TC4	40" Wide x 20" Deep 4-Drawer Top Chest
JHWW40RC7	40" Wide x 20" Deep 7-Drawer Roll Cabinet

Features

- This set provides the tools necessary for most general service and repair applications
- Included are a wide variety of fractional wrenches, hand and impact sockets, and popular 1/4", 3/8" and 1/2" drive ratchets and accessories
- An assortment of professional industrial tools such as pliers, screwdrivers, hammers, punches, chisels, and other tools round out the offering

WARNING

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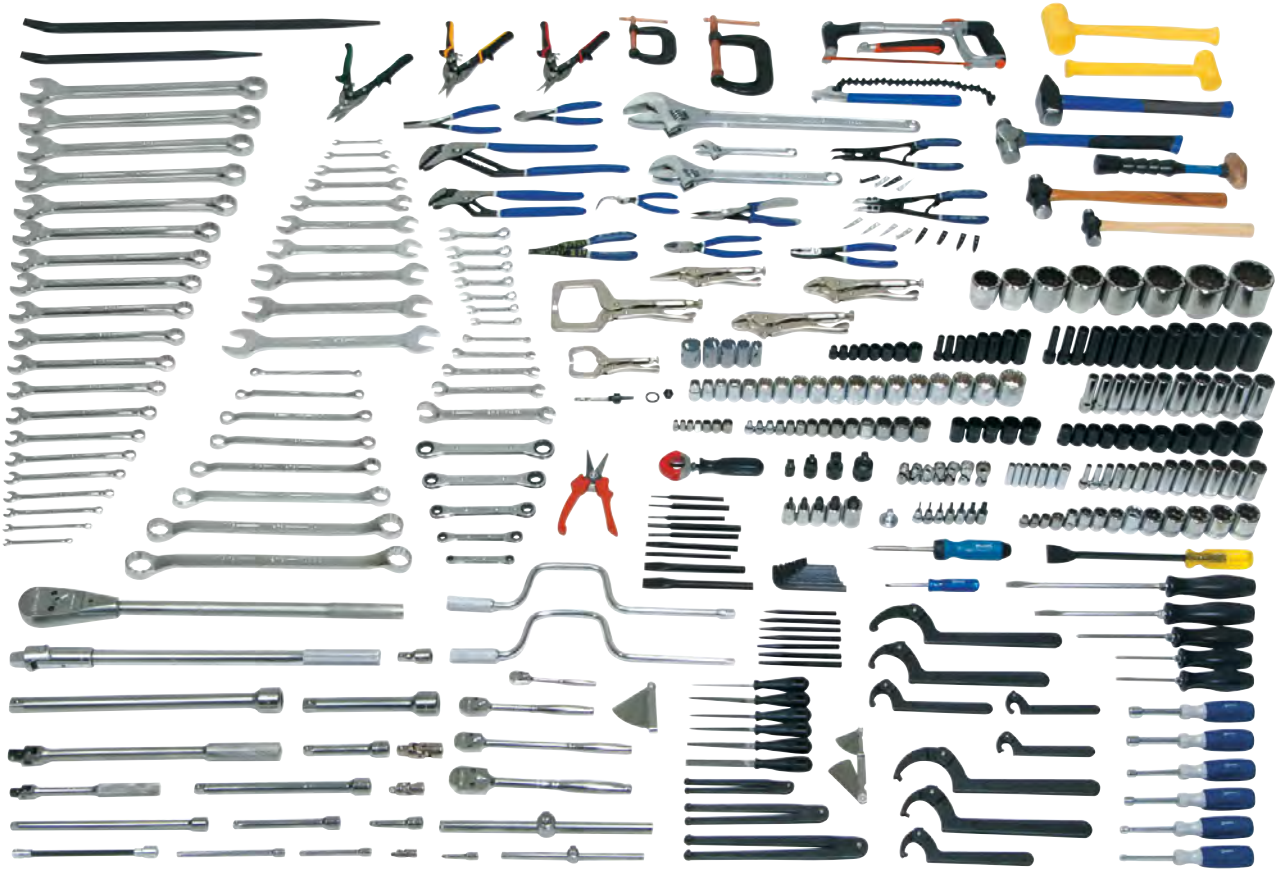
JHWW40TC4

JHWW40RC7



JHWMASTER

WILLIAMS

INTERMEDIATE TECHNICIAN'S TOOL SET

Contains the following tools:

Product Category	Product Category
Chisel and Punches	Ratchets, Drive Tools, and Accessories
Extractor	Screwdrivers
Feeler Gauge	Hand Sockets
Files	Tape Measure
Hammers	Torque Wrenches
Hex Keys	Wrenches
Pliers	

Set Configurations Available

Product Code	Description
JHWMECMNT	Intermediate Technician's Tool Set Only
JHWMECMNTTB	Complete Intermediate Technician's Tool Set with Tool Boxes

Tool Boxes Included

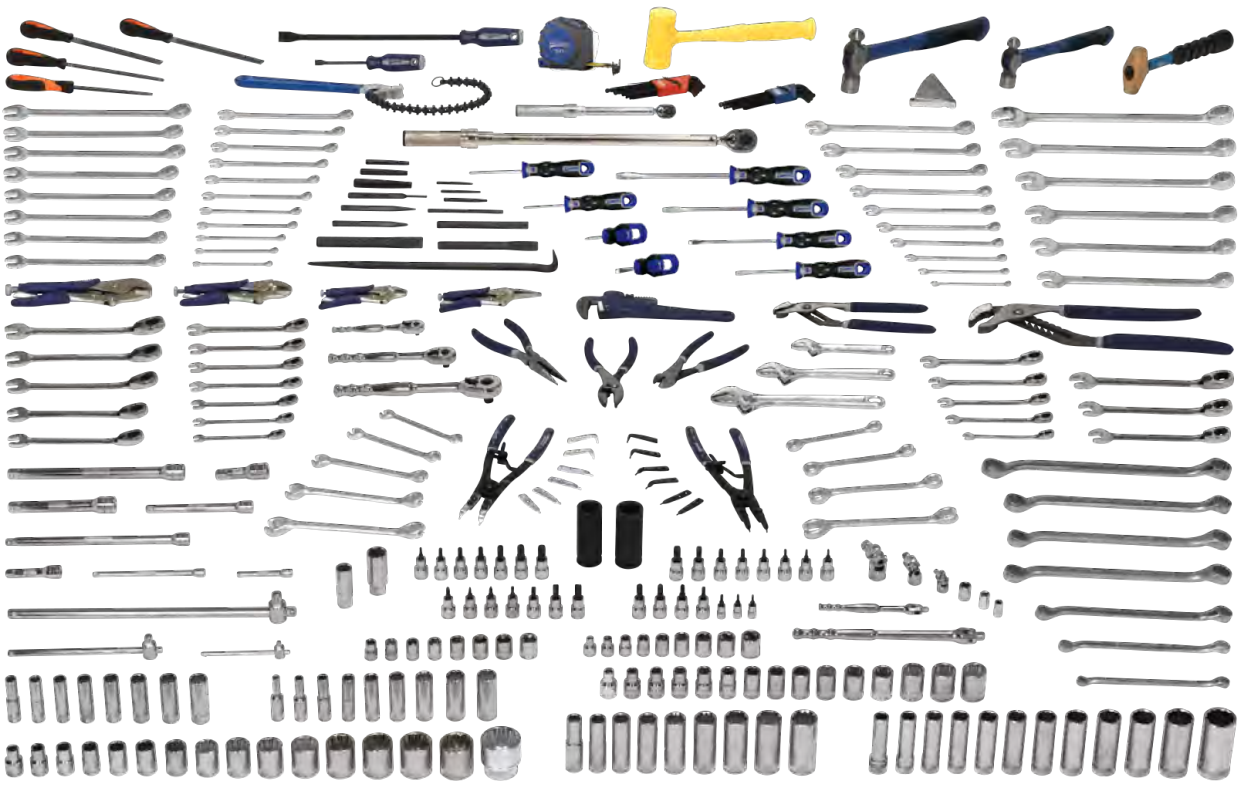
JHWW40RC7	40" 4 Drawer Professional Top Chest
JHWW40TC4	40" 7 Drawer Professional Roll Cabinet

Features

- This set provides the tools necessary for many general service and repair applications
- Included are a variety of fractional wrenches, hand and impact sockets, and 1/4", 3/8" and 1/2" drive ratchets and accessories
- An assortment of professional industrial tools such as pliers, screwdrivers, hammers, punches, chisels, and other tools round out the offering

JHWW40TC4

JHWW40RC7



JHWMECMNT

⚠WARNING

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JHWW40TC4

JHWW40RC7

ADVANCED MAINTENANCE SERVICE SET

Contains the following tools:

Product Category	Product Category
Chisel and Punches	Pliers
Files	Ratchets, Drive Tools, and Accessories
Hammers	Saws and Saw Blades
Hand Sockets	Screwdrivers
Impact Drive Tools	Tool Boxes
Impact Sockets	Wrenches
Miscellaneous Tools	

Set Configurations Available

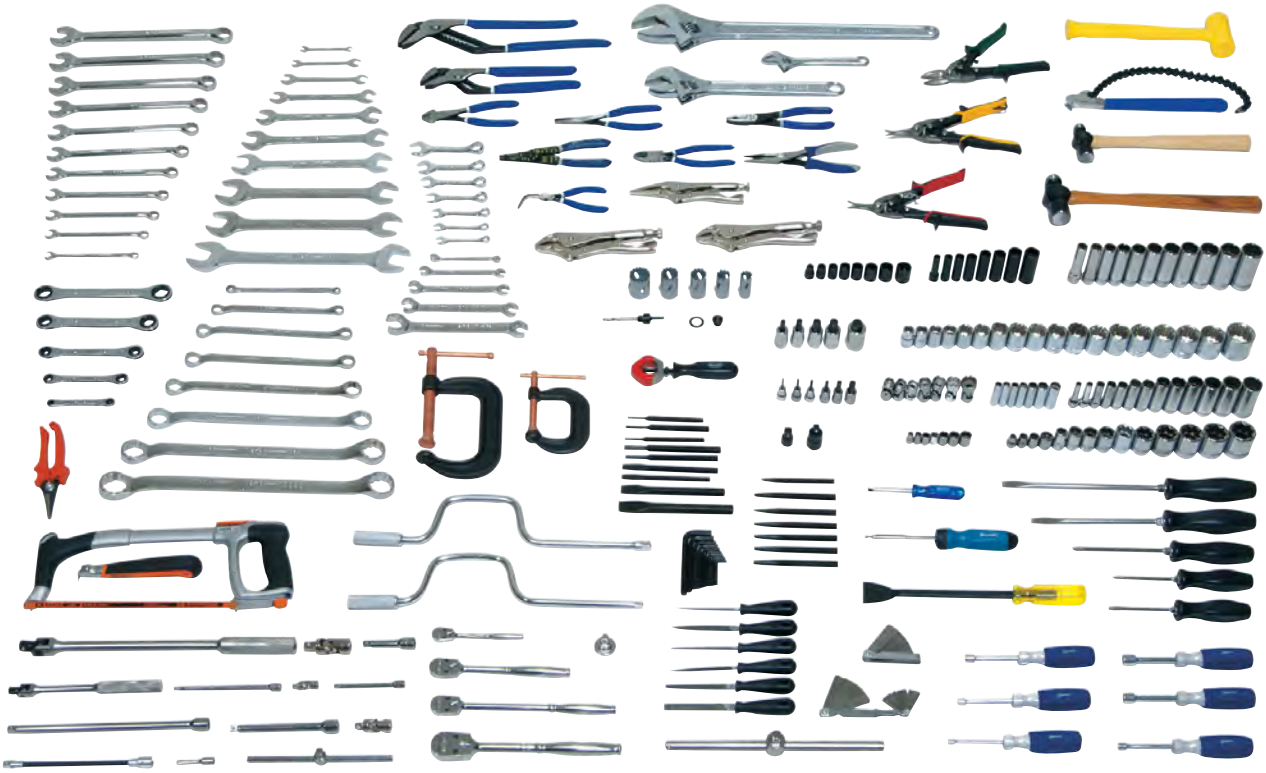
Product Code	Description
JHWADVMNT	Advanced Maintenance Service Tool Set Only
JHWADVMNTTB	Complete Advanced Maintenance Service Tool Set with Tool Boxes

Tool Boxes Included

JHWW40TC4	40" Wide x 20" Deep 4-Drawer Top Chest
JHWW40RC7	40" Wide x 20" Deep 7-Drawer Roll Cabinet

Features

- This set provides the tools necessary for many general service and repair applications
- Included are a variety of fractional wrenches, hand and impact sockets, and 1/4", 3/8" and 1/2" drive ratchets and accessories
- An assortment of professional industrial tools such as pliers, screwdrivers, hammers, punches, chisels, and other tools round out the offering



JHWADVMNT

WILLIAMS

PETROLEUM OIL FIELD SERVICE SET

Contains the following tools:

Product Category	Product Category
Chisels & Punch	Scraper
Haer	Screwdrivers
Pipe Wrenches	Sockets
Pliers	Utility Tools
Prybar	Wrenches
Ratchets, Drive Tools & Accessories	

Set Configurations Available

Product Code	Description
JHWPETROSET	Petroleum Oil Field Tool Set Only
JHWPETROSETTB	Complete Petroleum Oil Field Tool Set with Tool Boxes

Tool Boxes Included

JHWW40RC7	40" 4 Drawer Professional Top Chest
JHWW40TC4	40" 7 Drawer Professional Roll Cabinet

Features

- The set provides the tools necessary for Petroleum Oil field general service and repair applications
- Included are a wide variety of chisels, punches, haers, pliers, adjustable wrenches, pipe wrenches, 3/8" and 1/2" drive sockets, ratchets and accessories
- Also includes is professional utility tools and scrapers

JHWW40TC4

JHWW40RC7

JHWPETROSET

⚠WARNING

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JHWW40TC4

JHWW40RC7

OIL FIELD TOOL SET

Contains the following tools:

Product Category	Product Category
C-Clamp	Puller
Chain Wrench	Punch & Chisels
Hammer	Ratchets, Drive Tools and Accessories
Hex Key	Scraper
Miscellaneous	Screwdrivers
Nut Drivers	Snips
Pipe Wrench	Sockets
Pliers	Torque Wrench
Prybar	Wrenches

Set Configurations Available

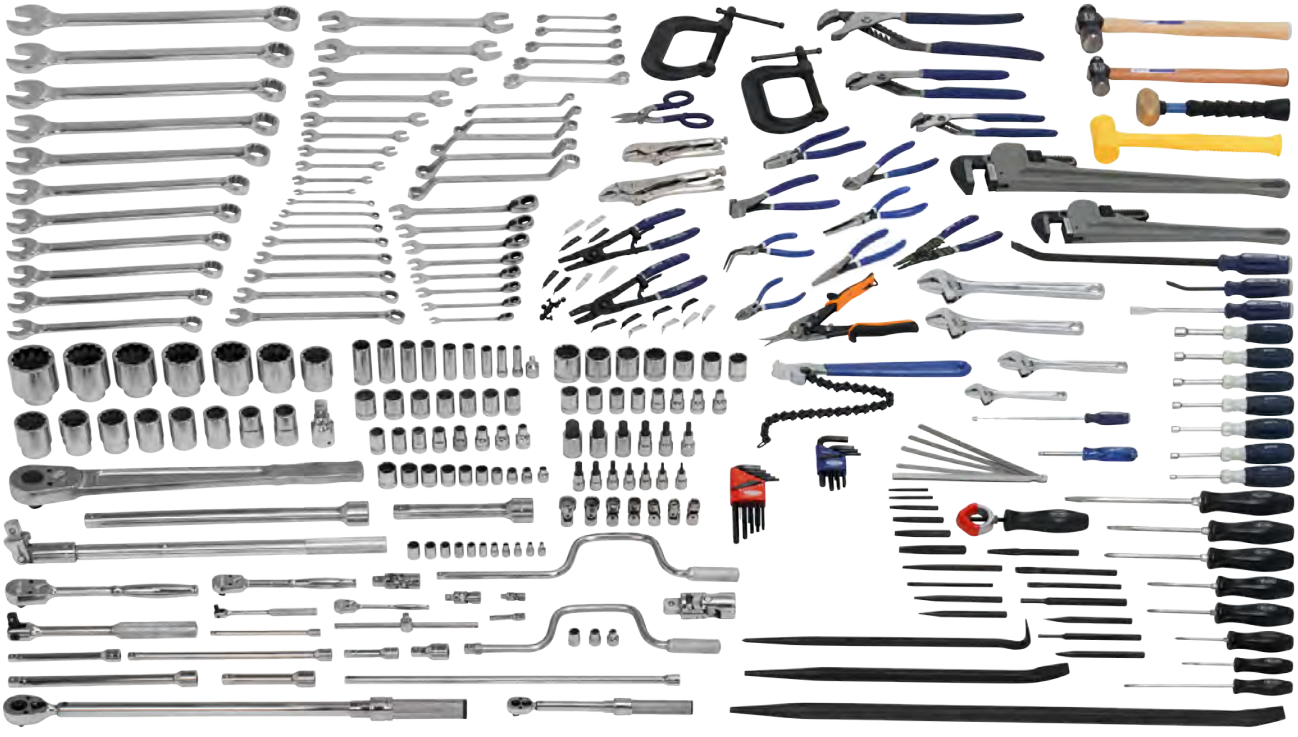
Product Code	Description
JHWOILFIELD	Oil Field Tool Set Only
JHWOILFIELDTB	Complete Oil Field Tool Set with Tool Boxes

Tool Boxes Included

JHWW40TC4	40" Wide x 20" Deep 4 Drawer Top Chest
JHWW40RC7	40" Wide x 20" Deep 7 Drawer Tool Cabinet

Features

- The set provides the tools necessary for oilfield general service and repair applications
- Included are a wide variety of pliers, box wrenches, combination wrenches, flare wrenches, 1/4", 3/8" and 1/2" drive sockets, ratchets and accessories
- Also includes is c-clamps, chain wrench and other tools



JHWOILFIELD

WILLIAMS

MECHANICAL MAINTENANCE SET

Contains the following tools:

Product Category	Product Category
Hammer	Ratchet, Drive Tools and Accessories
Hex Key	Screwdriver
Pliers	Sockets
Punch & Chisels	Wrenches

Set Configurations Available

Product Code	Description
JHWTMNT	Mechanical Maintenance Tool Set Only
JHWTMNTTB	Complete Mechanical Maintenance Tool Set with Tool Boxes

Tool Boxes Included

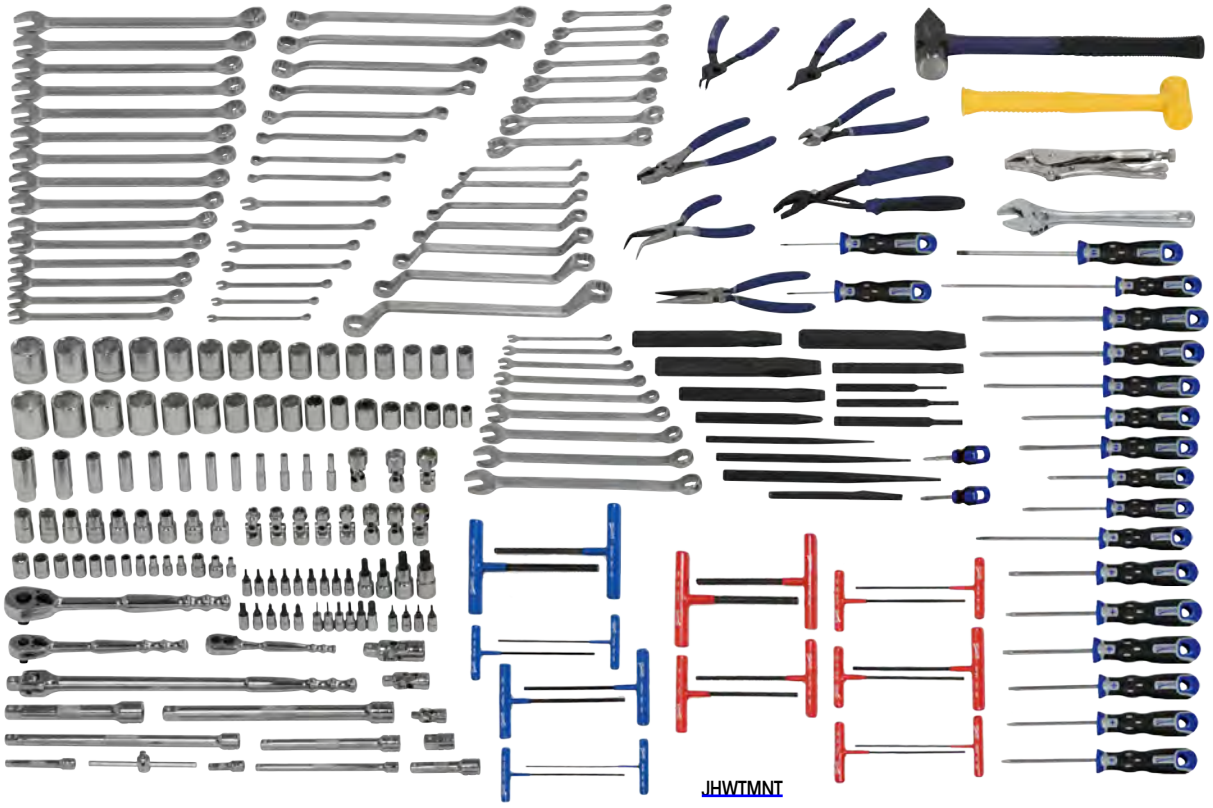
JHWW26TC4	26" Wide x 20" Deep 4 Drawer Top Chest
JHWW26RC7	26" Wide x 20" Deep 7 Drawer Tool Cabinet

Features

- The set provides the tools necessary for many general service and repair applications
- Included are a wide variety of pliers, box wrenches, hex keys, flare wrenches, 1/4", 3/8" and 1/2" drive sockets, ratchets and accessories
- Also includes is punch, chisels, hammers and other tools

JHWW26TC4

JHWW26RC7



JHWTMNT

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JHWW26TC4

JHWW26RC7

GENERAL MAINTENANCE TOOL SET

Contains the following tools:

Product Category	Product Category
C-Clamps	Ratchet, Drive Tools & Accessories
Chisels & Punches	Scrapers
Hammers	Screwdrivers & Bits
Files	Snips
Hacksaws	Sockets
Nutdrivers	Wrenches
Pliers	

Set Configurations Available

Product Code	Description
JHWGMNT	General Maintenance Tool Set Only
JHWGMNTTB	Complete General Maintenance Tool Set with Tool Boxes

Tool Boxes Included

JHWW26TC4	26" Wide x 20" Deep 4 Drawer Top Chest
JHWW26RC7	26" Wide x 20" Deep 7 Drawer Tool Cabinet

Features

- This set provides the tools necessary for most general service and repair applications
- Included are a wide variety of adjustable wrenches, locking pliers, screwdrivers, hammers and 1/4", 3/8" and 1/2" drive ratchets and accessories
- An assortment of professional industrial tools such as punches, chisels and pliers are also included

JHWGMNT

WILLIAMS

HEAVY DUTY MAINTENANCE SERVICE SET

Contains the following tools:

Product Category	Product Category
Chisel and Punches	Pliers
Clamps	Ratchets, Drive Tools, and Accessories
Feeler Gauge Set	Screwdrivers
Hammers	Tool Box
Hand Sockets	Wrenches

Set Configurations Available

Product Code	Description
JHWHDMNT	Heavy Duty Maintenance Tool Set Only
JHWHDMNTTB	Complete Heavy Duty Maintenance Tool Set with Tool Boxes

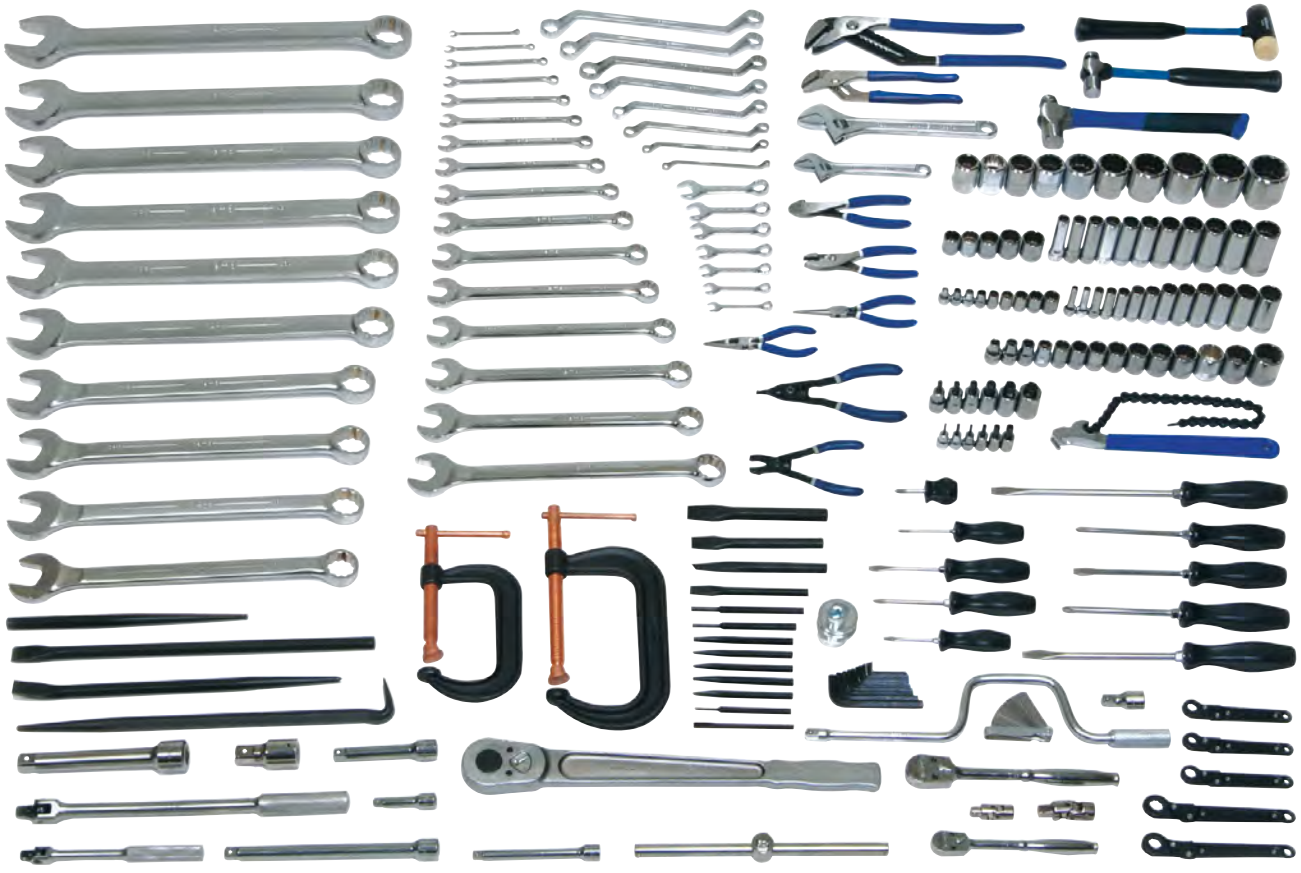
Tool Box Included

JHWW40RC7	40" Wide x 20" Deep 7-Drawer Roll Cabinet

Features

- Designed for the shop that performs maintenance on heavy equipment, this set emphasizes larger tools, including combination wrenches up to 2" and sockets up to 1-3/4"
- Ratchets, drive tools, and fractional sockets in 3/8", 1/2" and 3/4" drive are included, as well as a complement of screwdrivers, pliers, chisels, punches, hammers, and other common tools
- If you need a basic assortment of beefy tools, this is the set for you

JHWW40RC7



JHWHDMNT

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JHWW40RC7

ELECTRICAL MAINTENANCE SERVICE SET

Contains the following tools:

Product Category	Product Category
Electrical Specialty Tools	Ratchets, Drive Tools, and Accessories
Hammers	Saws and Saw Blades
Hand Sockets	Screwdrivers
Miscellaneous Tools	Screwdrivers - Insulated
Pliers	Tool Box
Pliers - Electrical	Wrenches
Pliers - Insulated	

Set Configurations Available

Product Code	Description
JHWELECTRICAL	Electrical Maintenance Service Tool Set Only
JHWELECTRICALTB	Complete Electrical Maintenance Service Tool Set with Tool Boxes

Tool Box Included

JHWW40RC7	40" Wide x 20" Deep 7-Drawer Roll Cabinet

Features

- Designed to satisfy electrical maintenance tool requirements, this set has both the standard hand tools and special tools needed to accomplish a wide variety of electrical maintenance and installation
- 1/4" and 3/8" drive sockets and accessories, hammers, and hand wrenches, and add the special items needed for electrical work: insulated and non-insulated pliers and screwdrivers
- Full-size roll cabinet to organize, store, and move your tool set
- Unique in the industry, this set will help you get those critical electrical maintenance tasks done quickly, efficiently, professionally, and safely

JHWELECTRICAL

WILLIAMS

MAINTENANCE TOOL SET

Contains the following tools:

Product Category	Product Category
Chisels & Punches	Ratchet, Drive Tools & Accessories
Hammers	Screwdrivers & Bits
Hex Key Set	Sockets
Pliers	Wrenches

Set Configurations Available

Product Code	Description
JHWMNTCART	Maintenance Tool Tool Set Only
JHWMNTCARTTB	Complete Maintenance Tool Tool Set with Tool Cart

Tool Boxes Included

JHW50721	3 Drawer Service Cart with Lid

Features

- This set provides the tools necessary for most general service and repair applications. Included are a wide variety of adjustable wrenches, locking pliers, screwdrivers, hammers and 1/4", 3/8" and 1/2" drive ratchets and accessories. An assortment of professional industrial tools such as punches, chisels and pliers are also included.

JHW50721

JHWMNTCART

⚠WARNING

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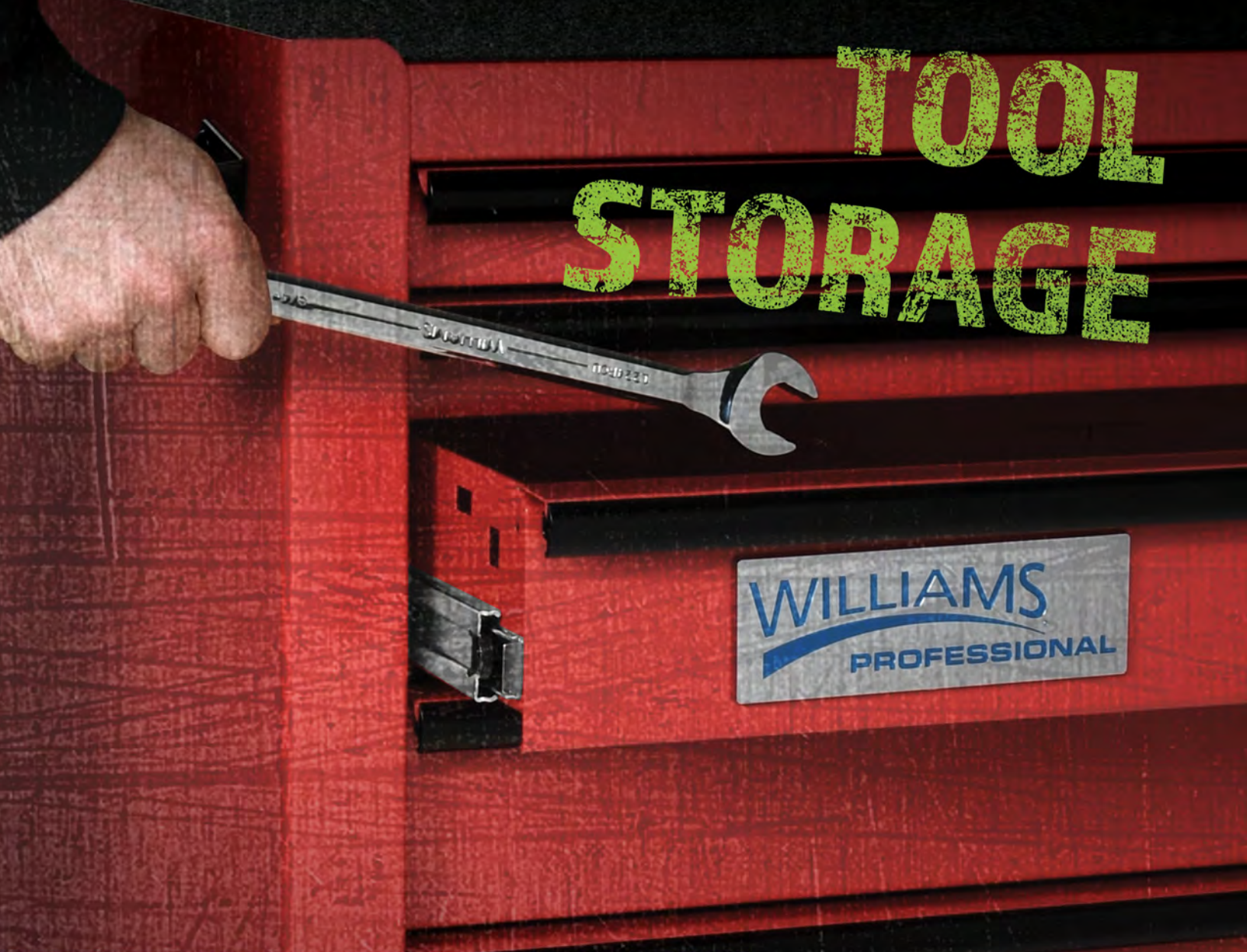
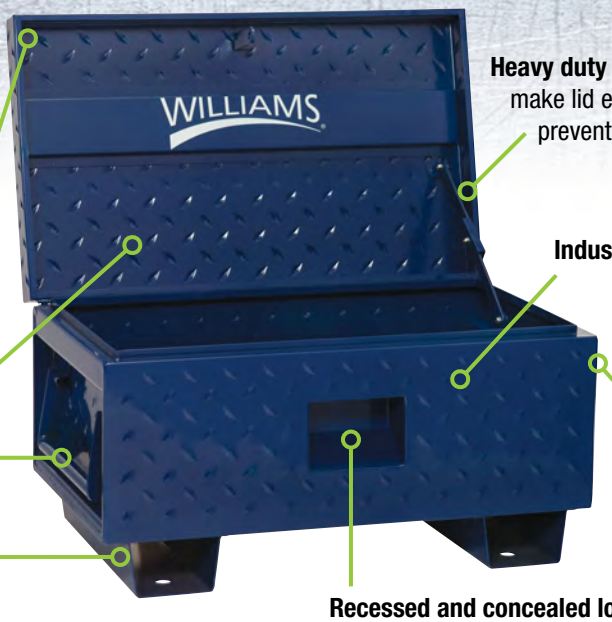
TOOL STORAGE



MODULAR INDUSTRIAL STORAGE 38
PROFESSIONAL SERIES 46
BULK STORAGE CAGES 50
SERVICE CARTS 50
JOBSITE BOXES 51
HAND CARRY BOXES 52
ROLL POUCHES 53
SOCKET RAILS & CLIPS 54

WILLIAMS®

JOB SITE BOXES



Reinforced overlapping lid provides protection from weather and forced entry

Tread plate design for rugged durability

Recessed side handles for easy transportation

Heavy 16 gauge steel construction with 12 gauge feet

Heavy duty industrial gas struts make lid easy to open and close preventing accidental closure

Industrial powder coating for long lasting, non corrosive finish

Fully welded seams provide maximum strength

Recessed and concealed locking area protects padlock for ultimate security against drills and bolt cutter

PROFESSIONAL SERIES

Colors Available:

Red (Standard)	Gloss Black	Royal Blue
	B	BL

Heavy duty industrial gas struts make lid easy to open and close preventing accidental closure

Drawer liners included to keep tools in place

High-Quality Class I steel for enhanced strength and finish

Double wall construction provides strength

Reinforcement corner gussets add strength and reduce racking

2" mounting centers provide flexibility in arranging drawers to individual needs

All 4" and deeper drawers provide for adding additional slides to **double drawer capacity**

Two point locking design adds extra security on all chests

High luster paint protects against scratches, peeling, blistering and corrosion

Drawers equipped with positive latching drawer retention to prevent unwanted drawer opening

Rolled hem on all drawers provide superior strength, rigidity and safety

All drawers equipped with 75 pound full extension ball bearing slides with quick disconnect

TOOL STORAGE

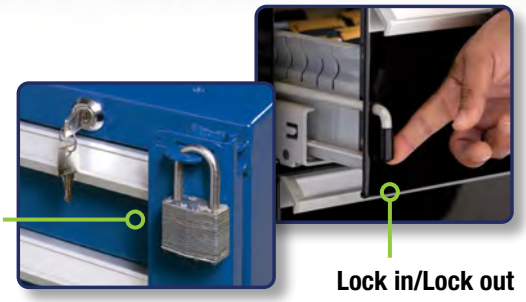
CUSTOMIZE. ORGANIZE. OPTIMIZE.

MODULAR INDUSTRIAL STORAGE

Colors Available:

Red	Gloss Black	Royal Blue
RD	BK	DB

Hinged locking bar available for additional security



Lock in/Lock out latch available

Work surfaces available in a variety of shapes and materials

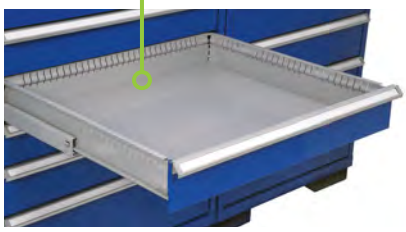
Fully MIG welded and surface ground on all eight corners, creating a cabinet that looks as good as it performs

Heavy duty 11ga plug-in guide rail allows for quick adjustment to accept different drawer sizes and combinations

Heavy duty 11ga carriage with six ball bearing rollers and four steel rollers ensures smooth operation of every drawer

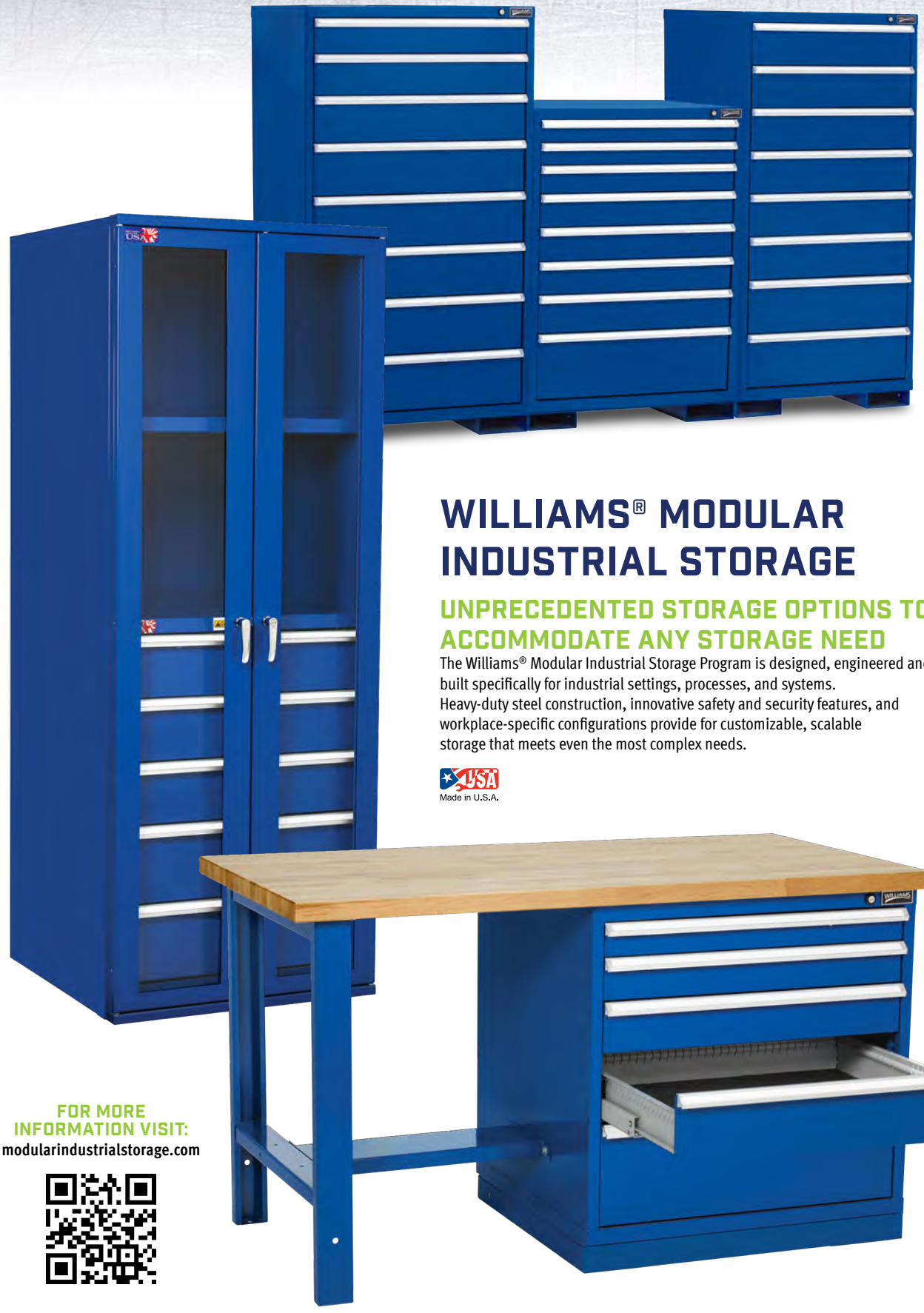
Full-width aluminum handles with safety overlap and 45° angle Overlap helps prevent injury by eliminating sharp edges and pinch points

100% View drawer extension provides full visibility and access to drawer contents via double roller tracks



Full height drawer sidewalls provide maximum cubic storage capacity

Standard full length forklift base provides a safe platform for installing cabinets or for moving them when reconfiguring workspace



WILLIAMS® MODULAR INDUSTRIAL STORAGE

UNPRECEDENTED STORAGE OPTIONS TO ACCOMMODATE ANY STORAGE NEED

The Williams® Modular Industrial Storage Program is designed, engineered and built specifically for industrial settings, processes, and systems. Heavy-duty steel construction, innovative safety and security features, and workplace-specific configurations provide for customizable, scalable storage that meets even the most complex needs.

Made in U.S.A.

FOR MORE INFORMATION VISIT:
modularindustrialstorage.com

WARNING

Colors Available:

Red	Gloss Black	Royal Blue
RD	BK	DB

AVAILABLE SECURITY OPTIONS AND WORKSURFACES

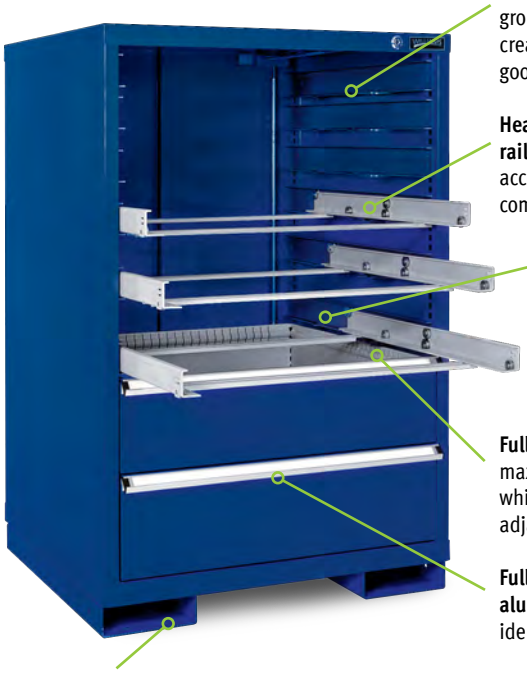
LOCK IN/LOCK OUT LATCH
Locks individual drawers into position, either closed or fully extended. Recommended for truck and van storage applications.

HINGED LOCK BAR
Features padlock hasp for additional protection and security of drawers and contents.

WORK SURFACES
Available in a variety of shapes and materials.

ENGINEERED FOR INDUSTRIAL USE

SUPERIOR DESIGN AND CONSTRUCTION–INSIDE AND OUT



Fully MIG Welded and surface ground on all eight corners, creating a cabinet the looks as good as it performs.

Heavy duty 11ga plug-in guide rail allows for quick adjustment to accept different drawer sizes and combinations.

Heavy duty 11ga carriage with six ball bearing rollers and four steel rollers ensures smooth operation of every drawer, even when loaded to the 400 lb. capacity.

Full height sidewalls provide maximum cubic storage capacity, while reducing item spillover into adjacent compartments.

Full Width 45 degree angle aluminum handles for easy identification of contents.

Standard full length forklift base provides a safe platform for installing cabinets or for moving them when reconfiguring workspace. The removable kick panel combines enhanced safety with a clean look. (11ga fully welded optional pallet truck base available).

ESSENTIAL DRAWER FEATURES

17 Unique Drawer Sizes/Depths

Drawer heights in 20mm increments

Drawer	Drawer Model Point Value	Drawer Front Height (Inches)	Drawer Inside Usable Height (Inches)	Drawer Side Wall Height (Inches)
1	80	3	2 1/8	2
2	100	3 7/8	3	3
3	120	4 3/4	3 7/8	3 7/8
4	140	5 1/2	4 3/4	3 7/8
5	160	6 1/8	5 1/2	3 7/8
6	180	7	6 1/8	6
7	200	7 3/4	7	6
8	220	8 1/2	7 3/4	6
9	240	9 1/4	8 1/2	8 1/2
10	260	10 1/8	9 1/4	8 1/2
11	280	11	10 1/8	8 1/2
12	300	11 3/4	11	10 7/8
13	320	12 1/2	11 3/4	10 7/8
14	340	13 1/4	12 3/8	10 7/8
15	360	14 1/4	13 1/4	10 7/8
16	380	14 7/8	14	10 7/8
17	400	15 1/2	14 3/4	10 7/8

Taller drawers are available. Call your Williams Territory Manager for assistance. Drawer Capacity: 400-lbs UDL @ 100% extension

USA
Made in U.S.A.

SAFE, STRONG & EFFICIENT DRAWER DESIGN

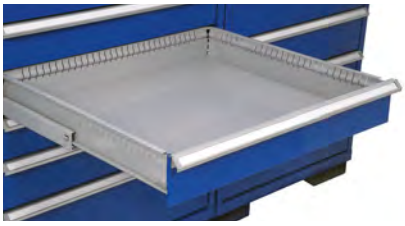
Riveted Drawer Fronts & Handles
Stainless steel rivets provide 650 lbs. of shear strength per rivet for outstanding durability. A minimum of 4 rivets are used to fasten the drawer front to the body and the drawer pull to the drawer front, creating a stronger bond than screws can.

Full-Width Aluminum Handles with Safety Overlap and 45˚ Angle Overlap helps prevent injury by eliminating sharp edges and pinch points. The angled design allows improved handle label visibility.

100% View Drawer Extension Full visibility and access to drawer contents via double roller tracks. Six high-quality steel ball bearings and four roller bearings support 400 pounds per drawer.

SAFE OVERLAPPING HANDLE

SUPPORTS UP TO 400 LBS. PER DRAWER



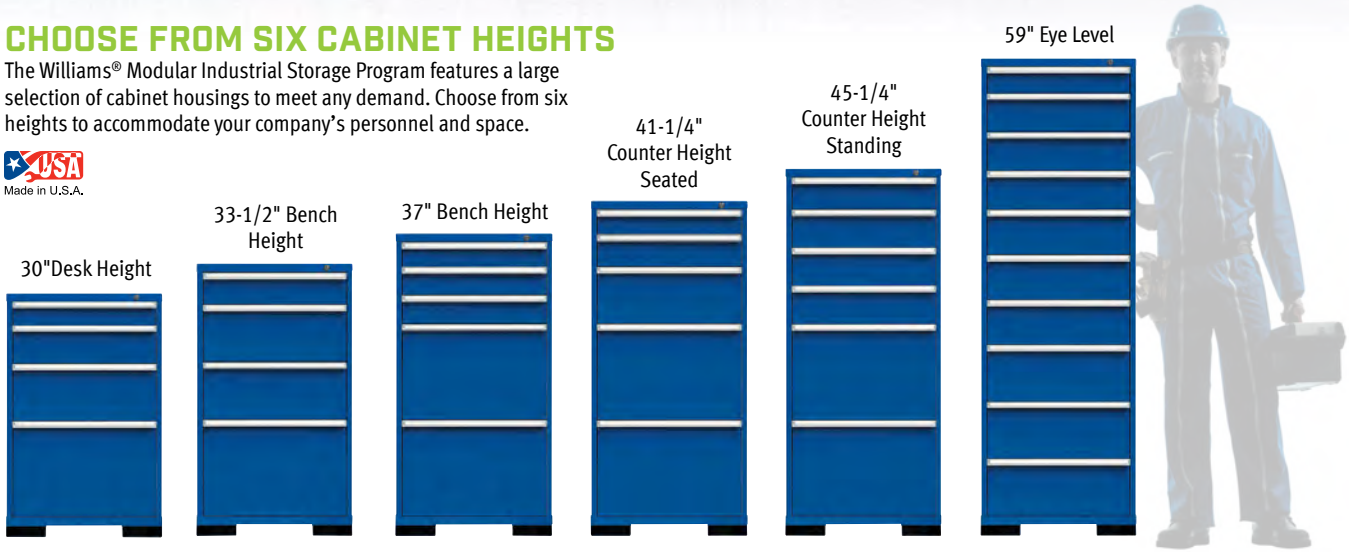
WARNING

CABINET HEIGHTS & WIDTH OPTIONS

CHOOSE FROM SIX CABINET HEIGHTS

The Williams® Modular Industrial Storage Program features a large selection of cabinet housings to meet any demand. Choose from six heights to accommodate your company's personnel and space.

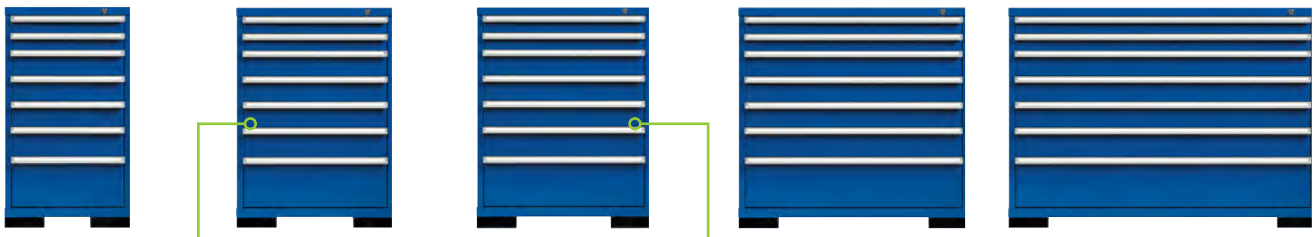
Made in U.S.A.



Model 600 | **Model 700** | **Model 800** | **Model 900** | **Model 1000** | **Model 1360**

CHOOSE FROM FIVE CABINET WIDTHS

Cabinets are available in five different widths. Choose widths to accommodate your specific storage needs. All cabinets are 27-3/4" deep and are available in all cabinet heights.



23" Narrow-Wide (NW)
- Makes excellent work station pedestals or mobile cabinets where space is limited
- Accommodates 18" items

29-1/4" Standard-Wide (SW)
- Recommended for most applications and provides the fastest pick-rates
- Accommodates items up to 24-1/2"

32-1/2" Standard-Wide Plus (SWP)
- Recommended for most applications and provides the fastest pick-rates
- Accommodates 28" items

46" Extra-Wide Plus (EWP)
- Recommended where parts or tools exceed 39"
- Accommodates 42" items

58-1/4"Double-Wide (DW)
- Recommended for extra-long items
- Accommodates items up to 53-1/2"wide

HUMAN-ENGINEERED DRAWERS – SQUARE DESIGN

The square **Standard Wide (SW) drawer** was ergonomically designed to accommodate the reach of the average person from either the front or the side, increasing picking productivity. Picking stock or retrieving parts from the side keeps aisles clear for increased efficiency and productivity.

MORE STORAGE SPACE

The innovative **Standard Wide Plus (SWP)** cabinet is an exclusive, providing up to 22% more storage than our SW (standard wide) cabinets or competitors' products.

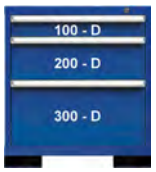
DRAWER CONFIGURATIONS TO MEET EVERY NEED

CHOOSE FROM FIVE CABINET HEIGHTS

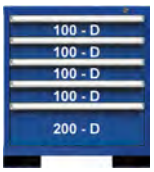
• Custom configurations are also available. Contact your Williams Territory Manager for details.

Made in U.S.A.

DESK HEIGHT - 30" TALL



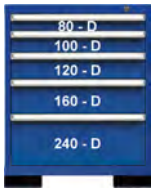
SW600F3DB



SW600F52DB

BENCH HEIGHT - 33" TALL

SW700F4DB



SW700F55DB

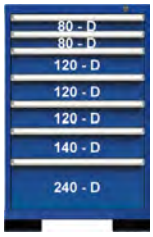
Colors Available:

Red	Gloss Black	Royal Blue
RD	BK	DB

COUNTER HEIGHT (SEATED) - 41" TALL

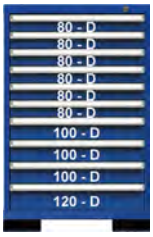
SW900F5DB

SW900F6DB



SW900F74DB

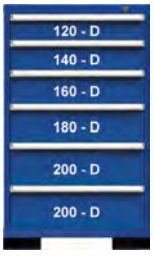
SW900F83DB



SW900F10DB

COUNTER HEIGHT (STANDING) - 45" TALL

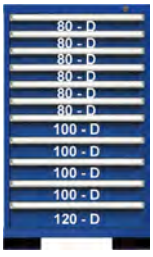
SW1000F5DB



SW1000F6DB

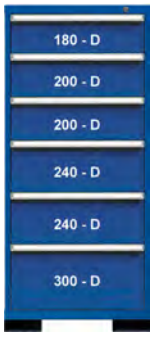
SW1000F8DB

SW1000F10DB



SW1000F11DB

EYE LEVEL HEIGHT - 59" TALL



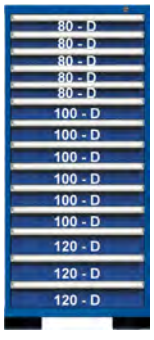
SW1360F6DB

SW1360F72DB

SW1360F9DB

SW1360F10DB

SW1360F11DB



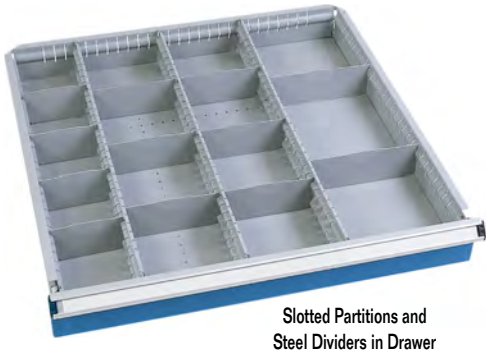
SW1360F14DB

CUSTOM DRAWER LAYOUTS FOR BETTER ORGANIZATION

Made in U.S.A.

Slotted Partitions in Drawer

SLC80-P



Slotted Partitions and Steel Dividers in Drawer

SLOTTED PARTITIONS

Product Code	Height (Inches)	For Use with Drawer Number
SLC80-P	2	80
SLC100-P	3	10
SLC120-P	3 7/8	120, 140, 160
SLC180-P	6	180, 200
SLC240-P	8 1/2	240
SLC300-P	10 7/8	300 and up

Features

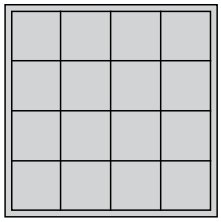
- Powder-coated steel partitions subdivide drawers from front to back

STEEL DIVIDERS

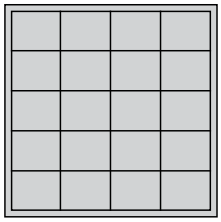
Usable width of compartment (inches)	Number of units (spaces)
1 7/8	3U
2 5/8	4U
3 1/2	5U
4 1/4	6U
5 1/8	7U
7 3/8	10U
9 1/8	12U
12 1/4	16U

Features

- Powder-coated steel dividers further separate drawers when used with slotted partitions
- Dividers slide into slots of partitions or drawer sidewalls to form compartments



Layout No. 1



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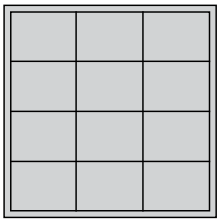
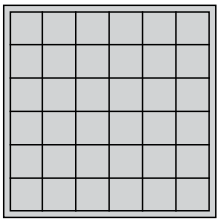


Layout No. 5



Layout No. 9

STANDARD WIDE (SW) DRAWER LAYOUTS

- Most popular drawer layouts shown
- Custom drawer layouts available

Layout No. 1
- 16 compartments
- 3 slotted partitions - 12 divider plates 8U

Layout No. 3
- 20 compartments
- 3 slotted partitions - 16 divider plates 8U

Layout No. 5
- 12 compartments
- 2 slotted partitions - 6 divider plates 10U
- 3 divider plates 12U

Layout No. 9
- 36 compartments
- 5 slotted partitions - 20 divider plates 5U
- 10 divider plates 6U

OPTIONS FOR EVEN GREATER SECURITY AND SAFETY

HINGED LOCK BAR

- Features a padlock hasp for additional protection and security of drawers and contents

LOCK IN/LOCK OUT LATCH

- Locks individual drawers into position, either closed or fully extended
- Recommended for truck and van storage applications

DRAWER ACCESSORIES MAXIMIZE STORAGE SPACE

MAXIMUM STORAGE IN MINIMUM SPACE!

Grooved Plastic Trays and Small Parts Containers

- Drawers are easily configured to perfectly match a wide variety of storage needs, from small parts such as fasteners and connectors, to delicate measuring equipment, cutting tools and electronic parts. Small parts containers and grooved plastic trays create custom layouts and drawer interiors to meet your specific needs.

Made in U.S.A.

GROOVED PLASTIC TRAYS

- Designed to protect side-sensitive tooling
- Available in 3 sizes

SLC50077
- Size 2 (2-7/8")

SLC50078
- Size 3 (1-7/8")

SLC50079
- Size 4 (1-3/8")

SLC50077 SLC50078 SLC50079

SLCA80A SLCA80B

SLCN80 SLCN80-DIV

1-1/8 1-7/8

PLASTIC BINS

A Series

Product Code	Size (Inches)
SLCA80A	2 ½ x 2 ½
SLCA80B	2 ½ x 5

Features

- Modular design made of tough plastic with a usable height of 2"
- Two sizes available

PLASTIC BINS

N Series

Product Code	Size (Inches)
SLCN80	6 x 6
SLCN80-DIV	6 x 6 (subdivided into four 3 x 3 compartments)

Features

- Modular design made of tough plastic with a usable height of 2"

LABEL HOLDERS

Product Code	Size (Inches)
SLC50093	1 ⅛
SLC50094	1 ⅞
SLC50192	1 ⅛

Features

- Transparent label holders clip onto plastic bins, grooved trays, and steel dividers
- Available in three sizes

WARNING

MORE WAYS TO CUSTOMIZE, ORGANIZE, OPTIMIZE

Colors Available:

Red	Gloss Black	Royal Blue
RD	BK	DB

ORGANIZE BULKY ITEMS BY ADDING SHELVING

SHELVING UNITS

Organize bulky items by adding shelving storage to your cabinets. Their rugged, all-welded construction assures smooth operation, durability and years of dependable heavy-duty service. And because they're adjustable, you can rearrange the shelves to flexibly adapt to your storage needs for years to come.

Made in U.S.A.

Choose Options and accessories
Select between shelves and drawers, or a combination of the two, for the interior. You can also further customize the shelving unit with solid doors, Clear Vue doors, a fork lift base and extra shelves.

Choose from various sizes
Shelving units are available in different widths, depths and heights to meet your specific storage needs.

Widths: Narrow-Wide (NW) – 23-1/4"
Standard-Wide (SW) – 29-1/4"
Standard-Wide Plus (SWP) – 32-1/2"

Depths: Shallow-Depth (SD) – 23-1/2"
Standard-Depth (S) – 27-3/4"

Heights: 78" and 84"

GIVE YOUR WORKPLACE A PLACE TO WORK

Colors Available:

Red	Gloss Black	Royal Blue
RD	BK	DB

SLC50226

WORKSTATIONS

Every workplace needs a place to work. We deliver highly customizable workstations to fit your specific needs.

- Available as stationary or mobile
- Available with shelves, cabinets, or risers
- Can be topped with a variety of work surfaces and even add footrests
- Available in five heights
- Lengths available: 48", 60", 72", 84", 90", 120" and 144"
- Riser shelves are available in steel (painted or stainless) or maple
- Can be configured with various options such as an open leg or panel leg, casters, steel or maple work surfaces, risers, drawers, and more

WORKSTATION TOPS

Product Code	Description
NWMAPLETOP	NW Maple Top 30D X 24L
SWMAPLETOP	SW Maple Top 30D X 30L
SWPMAPLETOP	SWP Maple Top 30D X 33L
EWPMAPLETOP	EWP Maple Top 30D X 48L
DWMAPLETOP	DW Maple Top 30D X 60L
MAPLETOP3048	Maple Top 30D X 48L
MAPLETOP3060	Maple Top 30D X 60L
MAPLETOP3072	Maple Top 30D X 72L
MAPLETOP3090	Maple Top 30D X 90L

Features
- Powder-coated steel partitions subdivide drawers from front to back

HANDLES & WHEELS

Product Code	Description
SLC50227	Caster Kit Set 4 and Handle Kit
SLC50226	Caster Kit Set 4

Features
- Make your storage mobile with our selection of handles and wheels
- Mobility workstations let you bring the work environment to the job, instead of going back and forth to and from the workstation

55" PROFESSIONAL SERIES TOOL CABINETS

Designed for industrial use

Product Code	Description
JHWW55TC10	55" Wide x 24" Deep 10-Drawer Tool Chest
JHWW55RC11	55" Wide x 24" Deep 11-Drawer Roll Cabinet

Color Options: Standard color is red. To order in an optional color, simply add the appropriate color code to the end of the product code.
Example: To order #JHWW55TC10 in Blue, specify product code JHWW55TC10BL

JHWW55TC10 Top Chest Overall Dimensions

Capacity (cu.in.)	Width (Inches)	Depth (Inches)	Height (Inches)
21283	55	24	28.5

Top Chest Drawer Sizes

Number	Width (inches)	Depth (inches)	Height (inches)
2	14 5/8	21 5/8	1 3/4
3	14 5/8	21 5/8	4
2	30 1/2	21 5/8	1 3/4
3	30 1/2	21 5/8	4

JHWW55RC11 Roll Cabinet Overall Dimensions

Capacity (cu.in.)	Width (Inches)	Depth (Inches)	Height (Inches)
25000	55	24	39

Roll Cabinet Drawer Sizes

Number	Width (inches)	Depth (inches)	Height (inches)
1	14 5/8	21 7/8	1 3/4
2	14 5/8	21 7/8	4
1	14 5/8	21 7/8	10 9/16
3	30 9/16	21 7/8	1 3/4
2	30 9/16	21 7/8	4
1	30 9/16	21 7/8	6 3/16
1	49	21 7/8	3 3/16

Features

- Made of High-Quality Class I steel to enhance strength and finish
- Double wall construction provides strength
- Reinforcement corner gussets add strength and reduce racking
- 2" mounting centers provide flexibility in arranging drawers to individual needs
- Drawers equipped with positive latching drawer retention to prevent unwanted drawer opening
- All drawers equipped with 75 pound full extension ball bearing slides with quick disconnect
- All 4" and deeper drawers provide for adding additional slides to double drawer capacity
- Rolled hem on all drawers provide superior strength, rigidity and safety
- Casters absorb vibrations transmitted to frame while moving on uneven surfaces
- Casters equipped with pedal brake and ball bearings for easy operation
- High luster paint protects against scratches, pealing, blistering and corrosion
- Paint pretreatment process both sprays and immerses boxes for added corrosion protected
- Drawer liners included at no extra charge
- Gas struts in lid of chest make lid easy to open and close
- Two point locking design adds extra security on all chests

Made in U.S.A.

JHWW55TC10

JHWW55RC11

Colors Available:

Red (Standard)	Gloss Black	Royal Blue
	B	BL

JHWW55RCBS

55" PROFESSIONAL SERIES ROLL CABINET

Designed for industrial use

Product Code	Description
JHWW55RC5BS	55" Wide x 24" Deep 5-Drawer Roll Cabinet with Bulk Storage

JHWW55RC5BS Roll Cabinet Overall Dimensions

Capacity (cu.in.)	Width (Inches)	Depth (Inches)	Height (Inches)
25,000	55	24	39

Roll Cabinet Drawer Sizes

Number	Width (inches)	Depth (inches)	Height (inches)
4	30 9/16	21 7/8	5
1	30 9/16	21 7/8	7
Bulk	23	21 7/8	33

Features

- Wide Drawer to hold long tools such as pry bars and extensions
- Bulk section with adjustable shelf perfect for storing large, bulky tools
- Made of High-Quality Class I steel to enhance strength and finish
- Double wall construction provides strength
- Reinforcement corner gussets add strength and reduce racking
- 2" mounting centers provide flexibility in arranging drawers to individual needs
- Drawers equipped with positive latching drawer retention to prevent unwanted drawer opening
- All drawers equipped with 75 pound full extension ball bearing slides with quick disconnect
- All 4" and deeper drawers provide for adding additional slides to double drawer capacity
- Rolled hem on all drawers provide superior strength, rigidity and safety
- Casters absorb vibrations transmitted to frame while moving on uneven surfaces
- Casters equipped with pedal brake and ball bearings for easy operation
- High luster paint protects against scratches, pealing, blistering and corrosion
- Paint pretreatment process both sprays and immerses boxes for added corrosion protected
- Drawer liners included at no extra charge
- Gas struts in lid of chest make lid easy to open and close
- Two point locking design adds extra security on all chests
- 8-05188ALRS – Replacement Slides

40" PROFESSIONAL SERIES TOOL CABINETS

Designed for industrial use

Product Code	Description
JHWW40TC4	40" Wide x 20" Deep 4-Drawer Top Chest
JHWW40RC7	40" Wide x 20" Deep 7-Drawer Roll Cabinet

Color Options: Standard color is red. To order in an optional color, simply add the appropriate color code to the end of the product code.
Example: To order #JHWW40TC4 in Blue, specify product code JHWW40TC4BL

JHWW40TC4 Top Chest Overall Dimensions

Capacity (cu. in.)	Width (inches)	Depth (inches)	Height (inches)
9746	40 1/32	19 13/16	19 7/16

Top Chest Drawer Sizes

Number	Width	Depth	Height
Top Compartment	39 29/32	18 23/32	4 23/32
2	34 11/16	17 17/32	1 13/32
2	34 11/16	17 17/32	3 19/32

JHWW40RC7 Roll Cabinet Overall Dimensions

Capacity (cu. in.)	Width (inches)	Depth (inches)	Height (inches)
15253	40	19 13/16	37 7/8

Roll Cabinet Drawer Sizes

Number	Width	Depth	Height
2	34 11/16	17 17/32	1 13/32
4	34 11/16	17 17/32	3 19/32
1	34 11/16	17 17/32	7 21/32

Features

- Made of High-Quality Class I steel to enhance strength and finish
- Double wall construction provides strength
- Reinforcement corner gussets add strength and reduce racking
- 2" mounting centers provide flexibility in arranging drawers to individual needs
- Drawers equipped with positive latching drawer retention to prevent unwanted drawer opening
- All drawers equipped with 75 pound full extension ball bearing slides with quick disconnect
- All 4" and deeper drawers provide for adding additional slides to double drawer capacity
- Rolled hem on all drawers provide superior strength, rigidity and safety
- Casters absorb vibrations transmitted to frame while moving on uneven surfaces
- Casters equipped with pedal brake and ball bearings for easy operation
- High luster paint protects against scratches, pealing, blistering and corrosion
- Paint pretreatment process both sprays and immerses boxes for added corrosion protected
- Drawer liners included at no extra charge
- Gas struts in lid of chest make lid easy to open and close
- Two point locking design adds extra security on all chests
- W40X50RV Side Handles
- Casters 5"x2", weight capacity 330 lbs. per caster
- Weight capacity 75 lbs. per rail

Made in U.S.A.

JHWW40TC4

JHWW40RC7

Colors Available:

Red (Standard)	Gloss Black	Royal Blue
	B	BL

JHWW26TC4

JHWW26RC7

Colors Available:

Red (Standard)	Gloss Black	Royal Blue
	B	BL

26" PROFESSIONAL SERIES TOOL CABINET

Designed for industrial use

Product Code	Description
JHWW26TC4	26" Wide x 20" Deep 4-Drawer Top Chest
JHWW26RC7	26" Wide x 20" Deep 7-Drawer Roll Cabinet

Color Options: Standard color is red. To order in an optional color, simply add the appropriate color code to the end of the product code.
Example: To order #JHWW26TC4 in Blue, specify product code JHWW26TC4BL

JHWW26TC4 Top Chest Overall Dimensions

Capacity (cu. in.)	Width (inches)	Depth (inches)	Height (inches)
6180	26 23/32	19 13/16	19 13/32

Top Chest Drawer Sizes

Number	Width (inches)	Depth (inches)	Height (inches)
Top Compartment	26 19/32	18 23/32	4 23/32
2	21 3/8	17 17/32	1 13/32
2	21 3/8	17 17/32	3 19/32

JHWW26RC7 Roll Cabinet Overall Dimensions

Capacity (cu. in.)	Width (inches)	Depth (inches)	Height (inches)
9374	26	19 13/16	37 7/8

Roll Cabinet Drawer Sizes

Number	Width (inches)	Depth (inches)	Height (inches)
2	21 3/8	17 11/32	1 15/32
4	21 3/8	17 11/32	3 19/32
1	21 3/8	17 11/32	7 21/32

Features

- Made of High-Quality Class I steel to enhance strength and finish
- Double wall construction provides strength
- Reinforcement corner gussets add strength and reduce racking
- 2" mounting centers provide flexibility in arranging drawers to individual needs
- Drawers equipped with positive latching drawer retention to prevent unwanted drawer opening
- All drawers equipped with 75 pound full extension ball bearing slides with quick disconnect
- All 4" and deeper drawers provide for adding additional slides to double drawer capacity
- Rolled hem on all drawers provide superior strength, rigidity and safety
- Casters absorb vibrations transmitted to frame while moving on uneven surfaces
- Casters equipped with pedal brake and ball bearings for easy operation
- High luster paint protects against scratches, pealing, blistering and corrosion
- Paint pretreatment process both sprays and immerses boxes for added corrosion protected
- Drawer liners included at no extra charge
- Two point locking design adds extra security on all chests

Made in U.S.A.

BULK STORAGE CAGE

Secure storage with at-a-glance inventory control

Product Code	Description	Load Capacity (lbs)
JHWWBSC2460C	Mobile Bulk Storage Cage w/ Casters	900
JHWWBSC2460S	Stationary Bulk Storage Cage	1,800

Features

- Double door opening for easy access
- Door latch with padlock security loop
- Durable chrome finish
- Available with swivel and locking casters for easy mobility or stationary, without casters
- Dimensions: 62" wide x 68" high x 28.5" deep

Made in U.S.A.

JHWWBSC2460C

SERVICE CARTS

Easy and convenient access to tools when and where you need them.

Product Code	Description
JHW50721A	4 Drawers with Lid, Rack and Shelf, Blue
JHW50722A	2 Shelves, Blue
JHW50723A	2 Shelves with Locking Drawer, Blue
JHW50724	4 Drawers with Lid, Rack and Shelf, Red

Service Cart Overall Dimensions

Product Code	Width (inches)	Depth (inches)	Height (inches)
JHW50721A	35	17	41
JHW50722A	30	17	41
JHW50723A	30	17	36 7/32
JHW50724	35	17	41

Features

- High gloss powder coat paint is scratch & chemical resistant
- Storage drawers for frequently used tools
- Heavy duty undercarriage to help support bottom tray load
- 18 gauge heavy duty steel
- 4" x 1" swivel casters

JHW50721A

JHW50722A

JHW50723A

JHW50724

⚠WARNING

JHW50950B
(Open)

JHW50950B
(Closed)

JOB SITE BOXES

Designed for the toughest outdoor work environments

Product Code	JHW50950B	JHW50951B	JHW50952B
Overall (Inches)			
Width	32	42	48
Depth	19	20	24
Height	17 1/2	23 1/2	27 1/2
Inside of body (Inches)			
Width	31	41 7/8	47 7/8
Depth	18 7/8	19 7/8	23 7/8
Height	11 1/8	17	21 1/8
Inside of top Lid (Inches)			
Width	31 7/8	41 7/8	47 7/8
Depth	18 7/8	19 7/8	23 7/8
Height	2 5/8	2 5/8	2 5/8
JHW50949	6" x 2" Swivel Caster Set		

Features

- Caster weight capacity is 3500 lbs, sold separately
- Tough industrial powder coating finish
- Heavy 16 gauge steel construction with 12 gauge feet
- Recessed and concealed locking area protects padlock for ultimate security against drills and bolt cutter
- Fully welded seams provide maximum strength
- Recessed side handles for easy transportation
- Reinforced overlapping lid provides protection from weather and forced entry
- Heavy duty industrial lid stays prevents accidental closure
- Tread plate design for rugged durability

26" FLAT TOP TOOLBOX

Product Code	Width (Inches)	Depth (Inches)	Height (Inches)	Cubic Inch Capacity
JHWTB-6124B	26	8 3/4	9	1980

- Ruggedly constructed hand tool box
- Extra long tools up to 25" fit neatly inside
- Three compartment tray with socket divider to keep small tools better organized and close at hand
- Double drawbolts keep the lid tightly closed
- Padlock eye with slotted hasp provides security

JHWTB-6124B

21" FLAT TOP TOOLBOX

Product Code	Width (Inches)	Depth (Inches)	Height (Inches)	Cubic Inch Capacity
JHWTB-6123B	21	8 3/4	12	1606

- Ideal for general use
- Steel tote tray keeps smaller items handy
- Combination drawbolt and padlock eye provide security

JHWTB-6123B

19" FLAT TOP TOOLBOX

Product Code	Width (Inches)	Depth (Inches)	Height (Inches)	Cubic Inch Capacity
JHWTB-6119B	19	6	6 1/2	741

- Ideal for general use
- Steel tote tray keeps smaller Items handy
- Combination drawbolt and padlock eye provide security

JHWTB-6119B

21" FOUR TRAY CANTILEVER TOOLBOX

Product Code	Width (Inches)	Depth (Inches)	Height (Inches)	Cubic Inch Capacity
JHWTB-6218B	21 1/4	8 3/4	12	1971

- Four trays cantilever outward when box is open providing access to the exceptionally deep box.
- Two of the trays feature movable dividers and another has a protective cover to prevent small tools or parts from spilling into the box.
- Formed feet in the box bottom add to strength and keep the box away from wet, dirty surfaces.

JHWTB-6218B

⚠WARNING

JHWTOTEBAGB

14" TOOL TOTE BAG

Product Code	Length (Inches)	Width (Inches)	Height (Inches)
JHWTOTEBAGB	14	11	10

Features

- Constructed from heavy Cordura® for maximum durability
- Ideal for storing and toting tools, parts, and supplies
- Heavy duty zippers for extra long life

JHWR-4A

ROLL POUCHES

Customize Your Own Tool Sets

Product Code	Number of Pockets	Width (Inches)	Height (Inches)
JHWR-1A	5	6	7 ½
JHWR-2A	5	8	12
JHWR-3A	5	11 ½	15 ½
JHWR-4A	5	12 ½	18 ½
JHWR-5A	5	16	25
JHWR-8A	15	17 ¼	10 ½
JHWR-10A	10	19 ¾	17 ¼
JHWR-11A	10	26 ½	25
JHWR-13A	10	34 ½	32
JHWR-20A	14	14 ½	8
JHWR-23A	8	23 ¼	26
JHWR-24A	4	8 ¾	11
JHWR-27A	17	23 ¼	17 ¾
JHWR-28A	26	19 ½	27
JHWR-29A	8	11	12 ¾
JHWR-30A	9	14 ⅝	13
JHWR-31A	6	13 ¼	16
JHWR-36A	9	9 ¼	10 ½
JHWR-37A	15	37	26 ½
JHWR-41A	11	24	20
JHWR-42A	7	12 ¾	16
JHWR-48A	3	15 ¼	9 ¼
JHWR-49A	12	25 ⅝	29

Features

- Heavy construction for long life
- Ideal for storing a variety of tools such as wrenches, extensions, and ratchets

JHW50001A JHW50003A

VINYL POUCHES

Customize Your Own Tool Sets

Product Code	Width (Inches)	Height (Inches)
JHW50001A	4 ½	12 ½
JHW50003A	6	15
JHW50005A	7 ½	19
JHW50007A	9 ½	19
JHW097411A	6	⅜
JHW099965A	9 ½	⅛

Features

- Extra heavy construction with snap fastening
- Clear plastic front panels allows full visibility to tools
- Metal grommets allow pouch to be hung on pegboard

METAL SOCKET SET TOOLBOXES

Rugged storage for Williams' premium socket sets

Product Code	Width (Inches)	Depth (Inches)	Height (Inches)	Gauge
JHWTB-101	10	7	1 ½	22
JHWTB-102	13	9	1 ¾	22
JHWTB103	18	8	2	22
JHWTB-104	25	9	2	20
JHWTB-12	30 ¼	11 ½	4 ¾	18
JHWTB-35	14 ½	5 ½	1 ¾	22
JHWTB-49	24 ⅞	8 ⅜	3 ⅞	18

Features

- Ruggedly constructed for long life
- Ideal for storing socket sets, other tools, and small parts
- Made from cold-rolled steel

Made in U.S.A.

JHWTB103

PLASTIC SOCKET RAILS AND CLIPS

Product Code	Description	Material	Length (Inches)
JHWR-8BLUE	Socket Rail - Blue	Plastic	8
JHWR-8RED	Socket Rail - Red	Plastic	8
JHWR-13BLUE	Socket Rail - Blue	Plastic	13
JHWR-13RED	Socket Rail - Red	Plastic	13
JHWR-18BLUE	Socket Rail - Blue	Plastic	18
JHWR-18RED	Socket Rail - Red	Plastic	18

Product Code	Description	Package Quantity	Drive Size (Inches)
JHWRC-25-15P	Socket Clip	15 Pack	¼
JHWRC-37-15P	Socket Clip	15 Pack	⅜
JHWRC-50-15P	Socket Clip	15 Pack	½

- Socket clips sold individually
- All rails hold any size clips

JHWRC-37-15P

JHWR-8BLUE

METAL SOCKET RAILS AND CLIPS

Product Code	Description	Material	Length (Inches)
JHWR-9	Socket Rail	Metal	9
JHWR-13R	Socket Rail	Metal	13
JHWR-17	Socket Rail	Metal	17

Product Code	Description	Material	Drive Size (Inches)
JHWRC-25	Socket Clip	Metal	¼
JHWRC-37	Socket Clip	Metal	⅜
JHWRC-50	Socket Clip	Metal	½
JHWRC-75	Socket Clip	Metal	¾

- Socket clips sold individually
- All rails hold any size clips

Made in U.S.A.

JHWR-9

⚠WARNING

TORQUE TOOLS

MULTITORQ™ TORQUE ACQUISITION METER 58
TORQUE COMPARATOR 59
ELECTRONIC TORQUE WRENCHES 60
T-HANDLE/TORQCONTROL 62
PRESET DRIVE TOOLS-TORKY 62
TORQUE SCREWDRIVERS 63
MECHANICAL TORQUE WRENCHES 64
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TORQUE IN LESS TIME, WITH MORE ACCURACY AND CONTROL

ELECTRONIC TORQUE WRENCH

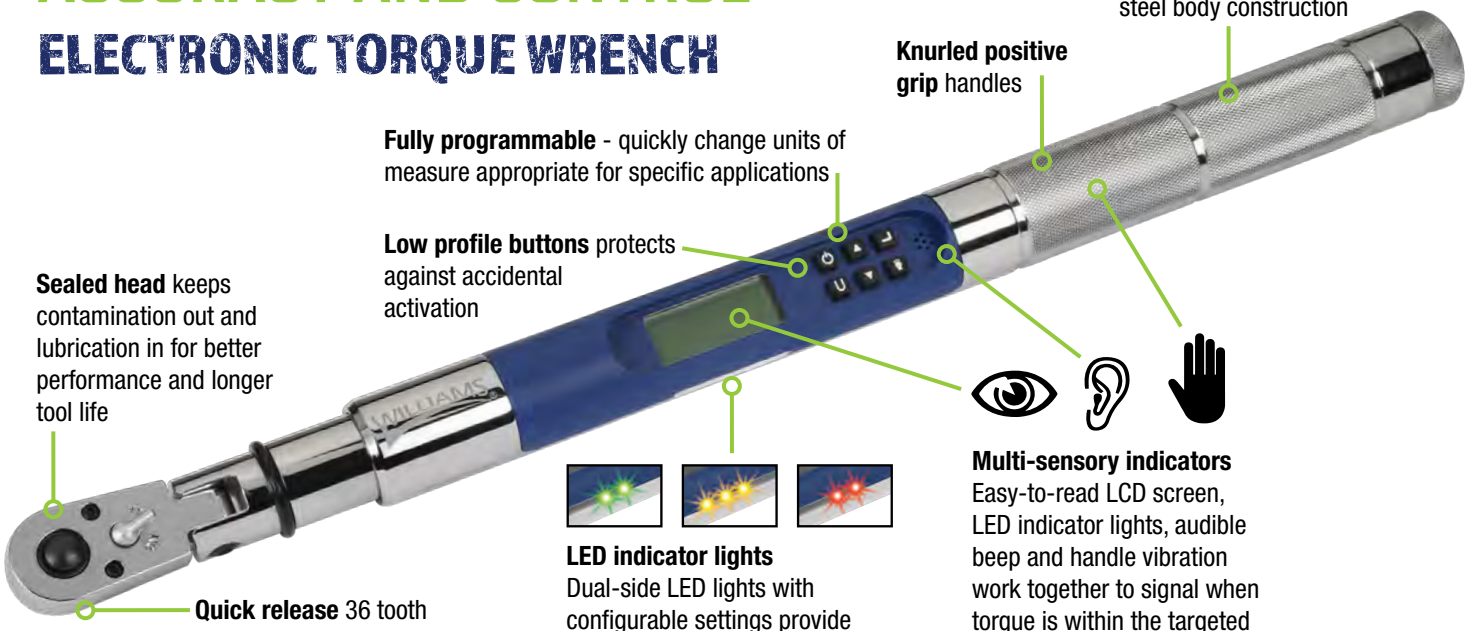
Strong & durable 100% steel body construction

Knurled positive grip handles

Fully programmable - quickly change units of measure appropriate for specific applications

Low profile buttons protects against accidental activation

Sealed head keeps contamination out and lubrication in for better performance and longer tool life



LED indicator lights
Dual-side LED lights with configurable settings provide operational guidance

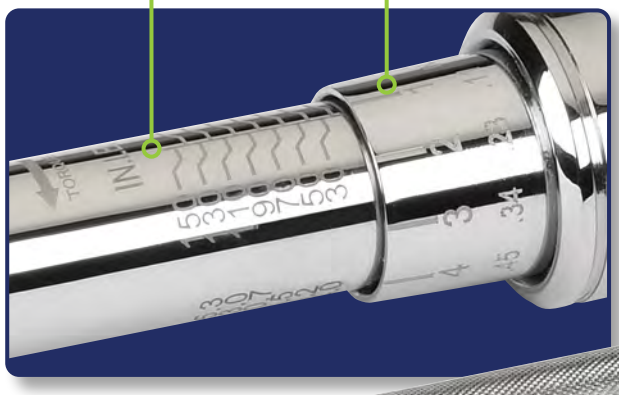
Multi-sensory indicators
Easy-to-read LCD screen, LED indicator lights, audible beep and handle vibration work together to signal when torque is within the targeted range

Quick release 36 tooth gear ratchet head

MIRCOMETER ADJUSTABLE TORQUE WRENCHES

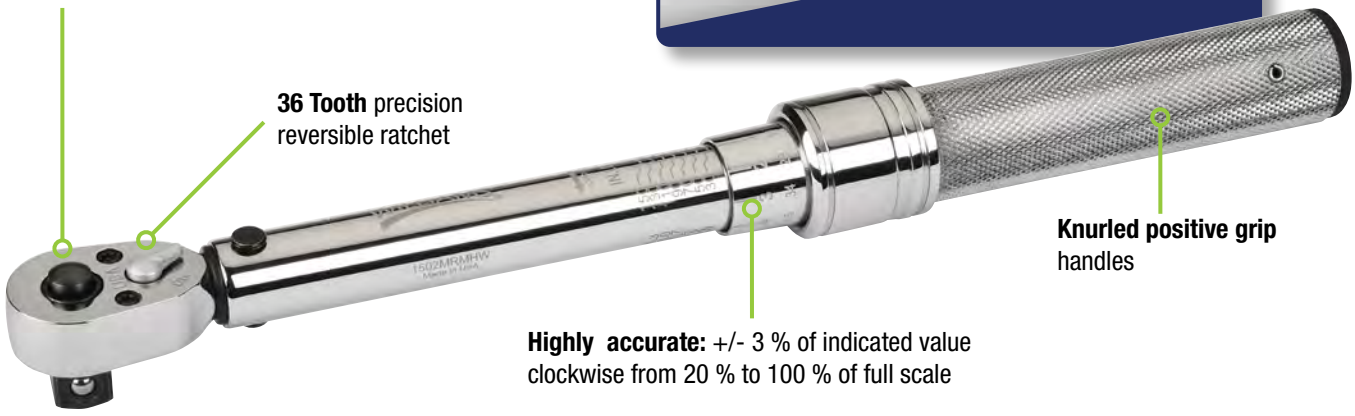
Easy to read laser marked scales

Positive lock with spring loaded pull down lock ring



Sealed head keeps contamination out and lubrication in for better performance and longer tool life

36 Tooth precision reversible ratchet



Knurled positive grip handles

Highly accurate: +/- 3 % of indicated value clockwise from 20 % to 100 % of full scale

TORQUE TOOLS

WORK MADE FASTER, EASIER AND SAFER

MULTITORQ™ TORQUE ACQUISITION METER

Sensors available in **1/4", 3/8", 1/2", 3/4"** and **1"** drive sizes

4 digit with alpha & numerical function flags

High and low torque limits are adjustable to give an **audible and visual alarm**

Data store/recall: 3500 measurements

Torque target settings are entered in keyboard

MICRO-ADJUSTABLE TORQUE SCREWDRIVERS

Cam-over torque limiting clutch for repeatability and accuracy

Automatic lock in counter-clockwise direction makes screw removal a snap

Permanently lubricated internal mechanism, never needs oil

Easy-to-read window scale and adjustment knob for precise settings

Industry standard 1/4" hex receiver allows use of all standard driver bits (Phillips,Torx, etc.)

Lightweight yet rugged construction, built to last

THE MICRO WITH MASSIVE VERSATILITY

Comfortable, slip resistant finish

Certified to the following industry specifications: ASME B107.300 - 2010 and ISO 6789

MULTITORQ™ TORQUE ACQUISITION METER

Turns any ordinary ratchet wrench into a highly accurate digital torque tool.

1600-MT2W

The **MULTITORQ™ torque acquisition meter** displays torque readings from sensors that attach between sockets and driver. MULTITORQ™ is a highly versatile torque analyzer/data acquisition system that can be used with sockets, extensions, universal joints, ratcheting drivers or any combination of these. Sensors are sold separately, available in 8 ranges from 2-20 in. ozs. to 150-1500 ft. lb. Accuracy ± 1% of reading (± 2% reading for 20 in. oz., and 10 in. lb.) 10-100% of sensor range.

The torque analyzer features a wide angle viewing LCD display with selectable readouts; ft. lb., in. lb., in. oz., Nm, dNm, mkg, and cmkg units. Torque target settings are entered via a push button membrane keyboard. High and low torque limits are adjustable to give an audible and visual alarm. The user selects Track mode to display torque values as they are applied, or Peak mode to display the highest torque value applied.

Features

- 4 digit w/ alpha & numerical function flags
- 4 digit, 8000 counts display capacity
- Accuracy: ± 1% of indicated value, cw & ccw, from 10% to 100% of full scale, 201-O-MT and 101-I-MT are ± 2%
- Soft touch keys: hi/lo alarm, zero tare, set-up, units, store/recall/clear, send, statistics, enter
- Units of measurement: ft. lb., in. lb., in. oz., Nm, dNm, mkg and cmkg
- Operating Temperature: 40 to 100 Degrees Fahrenheit (4 to 43 Degrees Celsius)
- Storage: -20 to 50 degrees C (-2 to 122 degrees F)
- Humidity: up to 90%, non-condensing
- Dimensions: 3" wide, 2.5" high (3" with belt clip), 6" deep
- Weight: 1 pound
- Charge life (full charge to shutoff): 100 hours continuous
- Data storage/recall: 3500 measurements
- Mini-USB: download port
- Three AA Alkaline Batteries (included)
- Reads bi-directionally (cw and ccw)

Standard Set Includes:

Product Code	Description
1600-MT2W	MULTITORQ™ Unit includes:
PB57A	Carrying Case
AW2-1/2D	Hex Key (Battery Install)
USBATOMINIB	Mini-USB Cable
276-61	Belt Clip

MULTITORQ™ TORQUE & DATA COLLECTION SENSORS

Sensors: (sold separately)

Product Code	Torque Range	Drive (In.)
201-O-MT2W	2 - 20 in. oz.	¼
101-I-MT2W	1 - 10 in. lb.	¼
501-I-MT2W	5 - 50 in. lb.	¼
2001-I-MT2W	20 - 200 in. lb.	¼
1002-F-MT2W	10 - 100 ft. lb.	⅜
2503-F-MT2W	25 - 250 ft. lb.	½
6004-F-MT2W	60 - 600 ft. lb.	¾
15005-F-MT2W	150 - 1500 ft. lb.	1

Made in U.S.A.

Certificate of accuracy traceable to N.I.S.T. supplied with each transducer.

All components ordered separately.

⚠WARNING

TORQUE COMPARATOR

Large dual scale. Perfect when a quick check of your wrench is required before usage. Compact design allows for mounting on any flat surface in either horizontal or vertical position. Torque Comparator is calibrated on torque testers which are certified using test bars and "F" weights traceable to NIST. +/- 2% accuracy from 20% of full scale to full scale. Calibration Compliance Certificate.

Product Code	Square Drive	English Capacity	Inc.	Nm, Capacity	Inc.
1753-TC	1/2"	175 ft. lbs.	5 ft. lbs.	230 Nm	10 Nm
6004-TC	3/4"	600 ft. lbs.	5 ft. lbs.	800 Nm	20 Nm

Made in U.S.A.

TORQUE SOLUTIONS

A FULL LINE OF PRODUCTS FOR EVERY INDUSTRY

The world's largest supplier of industrial quality torque tools and precision torque, force and tension calibration systems. Contact Williams® to learn more about our Calibration Systems, Digital Torque Testers and TorqueTools.

ELECTRONIC TORQUE WRENCH

TORQUE IN LESS TIME, WITH MORE ACCURACY AND CONTROL

Williams Electronic Torque Wrench are fully programmable for reliable, consistent, and repeatable torque applications. This electronic torque wrench is ideal for industrial working conditions and provides instant data on the exact torque actually applied.

Product Code	Square Drive	Torque Range (in.-lb.)	Torque Range (ft.-lb.)	Range (Nm)	Head Depth (Inches)	Head Width (Inches)	Weight (lbs)	Overall Length (inches)
2401EFRMH	1/4	12-240	1-20	1.36-27.12	1/2	7/8	0.93	11 5/8
12002EFRMH	3/8	60-1,200	5-100	7-135	3/4	1 1/8	1.60	15 3/8
1002EFRMH	3/8	60-1,200	5-100	6.8-135.0	3/4	1 1/8	2.85	19 1/8
2503EFRMH	1/2	150-3,000	12.5-250	16.9-339	7/8	1 5/8	4.35	26 3/4
6004ERMH	3/4	360-7,200	30-600	40.7-813.5	2 3/8	2 1/2	10.95	48 3/4

Features

- Features a 36 tooth gear quick release ratchet head that provides good socket retention as well as easy socket removal
- Sealed head keep contamination out and lubrication in for better performance and longer tool life.
- Handles are durable with are lightly knurled for a tough, non slip grip
- Dual Progressive LEDs allows user to view active torque readings and to anticipate torque target for more accurate torque
- Automatically compensates for flex related torque variances
- Easy to read Large LCD Screen, LED indicator lights, audible beep and handle vibrations work together to signal when torque is within the targeted range
- Rugged all steel body is designed to stand up to industrial use and each wrench is backed by a 1 year warranty
- Torque measured in seven modes: ft-lb, in-lb, Nm, dNm, kg-cm, angle and torque then angle
- Fully programmable with 10 memory presets
- Conveniently switches to angle mode without removing the torque wrench from a fastener in torque then angle mode
- Angle Accuracy: (+/- 1% of reading) + (+/- 1 DEG @ Angle Velocity >10 DEG/SEC < 180 DEG/SEC) + (+/- 1 DEG for test fixture)
- Torque accuracy: +/- 2% CW, +/- 3% CCW indicated value, 20% to 100 % of full scale
- Torque accuracy: +/-4% CW, +/-6 CCW indicated value, 10% to 19% of full scale
- Torque accuracy: +/- 8% CW, +/- 10% CCW indicated value, 5% to 9% of full scale

Strong & durable 100% steel body construction

Multi-sensory indicators Easy-to-read LCD screen, LED indicator lights, audible beep and handle vibration work together to signal when torque is within the targeted range

Fully programmable - quickly change units of measure appropriate for specific applications

Low profile buttons protects against accidental activation

LED indicator lights Dual-side LED lights with configurable settings provide operational guidance

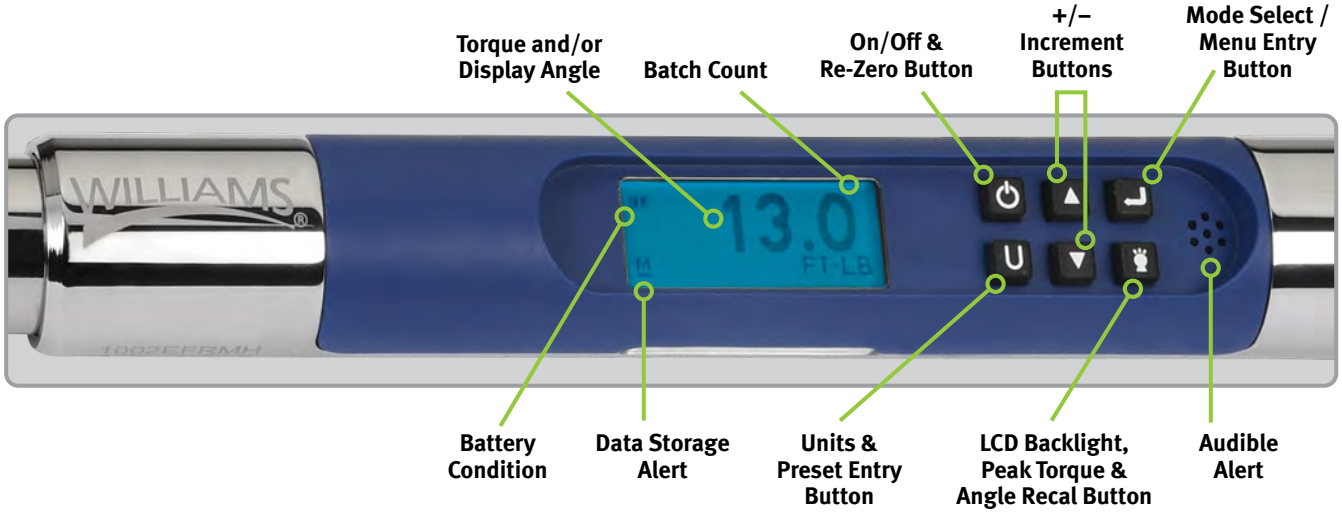
Angle Head Control Head flexes ±15° to avoid obstructions.

Sealed head keeps contamination out and lubrication in for better performance and longer tool life

Quick release 36 tooth gear ratchet head

WARNING

Blow-molded storage case


Torque and/or Display Angle
Batch Count
On/Off & Re-Zero Button
+/– Increment Buttons
Mode Select / Menu Entry Button
WILLIAMS
13.0
FT-LB
Battery Condition
Data Storage Alert
Units & Preset Entry Button
LCD Backlight, Peak Torque & Angle Recal Button
Audible Alert

TORQUE LIMITING T-HANDLE - PRE-SET

Product Code	Pre Set Value Nm	Ft. Lb.	In. Lb.	Bit
TLPT4NMW	4.0	2.9	35.4	4 mm
TLPT5NMW	5.0	3.7	44.3	4 mm
TLPT6NMW	6.0	4.4	53.1	4 mm

Features

- Torque Limiting Technology to Prevent Over-Tightening
- Magnetic Shank to Interchange Bits as Needed
- Rounded T-Handle Grip for Added Comfort
- Hi-Vis Color for Easy Identification
- Shaft accepts 1/4" hex shank bits, a 4 mm bit is included in each driver

TORQCONTROL ADJUSTABLE TORQUE TOOL

ACCURATE, FAST, EASY AND ERROR-PROOF

Applying just the right amount of torque in low-torque applications can be tricky at times. The new patent-pending TorqControl Torque Tool is an adjustable, torque limiting tool that applies torque in a range between 2 Newton Meters (Nm) and 8 Nm, indexing at every tenth Newton Meter.

Product Code	Nm Range	Included Bits
TLA28NMW	2.0-8.0	4 mm, 5 mm, 6 mm, T25, 4" Long 4mm, 4" Long T25 Bits

Features

- Perfect for applying torque to bicycle components
- Magnetic tip holds, and allows for easy bit changes
- Standard ¼" hex tip can utilize any standard hex bits
- Ergonomic L-shaped handle with rubberized cap for better grip
- Includes Certification of Accuracy
- TorqControl provides easy adjustability

PRESET DRIVE TOOLS - TORKY

TORKY is a right angle pre-set torque wrench. Torky is designed for production torque applications that require higher values than a torque screwdriver can deliver. The comfortable design eases the strain of repeated uses. Torque value may be ordered factory pre-set at an additional charge or it may be easily set by the operator with any quality torque calibration system. When the proper torque value is reached, a momentary release or "break" can be felt. Available in three drive styles to fit most needs.

Features

- Factory Pre-Set models are set at the factory to the customer's specified torque setting and are furnished with a Certificate of Calibration
- Please specify desired torque setting when order is placed
- Three models available
- Simple, easy to use design
- Ruggedly built for years of reliable service
- Operates bi-directionally
- Accuracy: ± 6% of indicated value, CW, from 20% to 100% of full scale

Product Code Un-Set	Product Code Factory Pre-Set	Drive	Torque Range	W X L Length	Wt. Oz.
1501TPA-1W	1501TPA-1-SETW	1/4" Female Hex	20-170 in.lbs.	1 x 5.25	8.3
1501TP-1W	1501TP-1-SETW	1/4" Male Square	20-170 in.lbs.	1 x 5.25	8.3
1502TP-1W	1502TP-1-SETW	3/8" Male Square	20-170 in.lbs.	1 x 5.25	8.3

Made in U.S.A.

Prevents premature wear of carbide inserts and damage to cutter head due to improper clamp load.

WARNING

61SMW

Industry standard 1/4" hex receiver allows use of all standard driver bits (Phillips,Torx, etc.)

Certified to the following industry specifications: ASME B107.300 - 2010 and ISO 6789

Cam-over torque limiting clutch for repeatability and accuracy

Automatic lock in counter-clockwise direction makes screw removal a snap

Comfortable, slip resistant finish

Permanently lubricated internal mechanism, never needs oil

Easy-to-read window scale and adjustment knob for precise settings

Lightweight yet rugged construction, built to last

TORQUE SCREWDRIVERS - MICRO-ADJUSTABLE

Adjustable models offer versatility for applications that require more than one torque value. These torque screwdrivers are particularly suited for the electronics industry and for instrument assembly work. A simple, cam-over design prevents over-tightening and possible damage to components.

Torque settings are easily and accurately changed with a unique adjusting knob and easy-to-read window scale. Adjusting the screwdriver is simple. Just pull out the adjusting knob to unlock, turn to the desired setting, then push the knob in until it clicks!

Positive locking knob makes accidental setting changes impossible. Automatic lock in counterclockwise direction makes fastener removal a snap. The Micro-Adjustable series includes six models with torque settings ranging from 20 in. ozs. to 40 in. lbs.

Features

- 6 models available
- Positive locking pull down adjustment knob
- Trilobular comfort grip
- Universal 1/4" hex bit holder with strong rare earth magnet
- Cam-over torque limiting clutch
- Slip resistant finish
- Easy-to-read window scale
- Light weight
- Automatic lock in CCW direction for removing screws
- Accuracy: ± 6% of indicated value, CW, from 20% to 100% of full scale
- Individually serialized with matching certificate of calibration traceable to N.I.S.T.
- Meets or exceeds ASME B107.300 - 2010

Product Code	Torque Range	Increments	W x L Inches	Wt. Oz.
61SMW	20 - 100 in. ozs.	1 in. oz.	1.1 x 5.5	6.8
151SMW	3 - 15 in. lbs.	.2 in. lbs.	1.1 x 6.25	8.0
401SMW	5 - 40 in. lbs.	.5 in. lbs.	1.2 x 6.75	10.8
61NSMW	10 - 80 cNm	1 cNm	1.1 x 5.5	6.8
151NSMW	40 - 200 cNm	2 cNm	1.1 x 6.25	8.0
401NSMW	50 - 450 cNm	5 cNm	1.2 x 6.75	10.8

Made in U.S.A.

21SPW

TORQUE SCREWDRIVERS - SINGLE SETTING

The tamper resistant design of the **Single Setting** series is particularly suited for high-volume use in assembly operations. A simple, cam-over design prevents over-tightening and possible damage to components.

Torque screwdrivers may be ordered factory pre-set at an additional charge or they may be easily set by the operator with any quality torque calibration system. The end cap removes for easy access to the 1/8" hex adjustment screw. A hex adjustment key is included with each driver.

The Single Setting series includes four models with available torque settings from 6 in. ozs. up to 40 in.lbs. When precision and repeatability are a must, the choice is simple - Williams Torque Screwdrivers.

Product Code Un-Set	Product Code Factory Pre-Set	Torque Range	W X L Length	Wt. Oz.
21SPW	21SP-SETW	6-32 in.ozs	1.1 x 4.5	5.3
61SPW	61SP-SETW	10 - 100 in.ozs.	1.1 x 5.6	7.0
151SPW	151SP-SETW	1.5 - 15 in. lbs	1.1 x 5.6	7.0
401SPW	401SP-SETW	4 - 40 in. lbs.	1.2 x 6.3	9.6

Made in U.S.A.

Features

- Factory Pre-Set models are set at the factory to the customer's specified torque setting and are furnished with a Certificate of Calibration
- Please specify desired torque setting when order is placed
- 4 models available
- Trilobular comfort grip
- Universal 1/4" hex bit holder with strong rare earth magnet
- Cam-over torque limiting clutch
- Rugged, light weight aluminum body
- Automatic lock in CCW direction
- Accuracy: ± 6% of indicated value, CW, from 20% to 100% of full scale
- Meets or exceeds ASME B107.300 - 2010

COMFORT GRIP MICROMETER ADJUSTABLE TORQUE WRENCHES - DUAL SCALE

Comfort-Grip Handle Dual Scale

Product Code	Drive Size (In.)	English Range	Incr.	Nm Range	Incr.	Overall Length (In.)	Head Width (In.)	Head Depth (In.)
1501MRPHW	1/4	20-150 in. lb.	1	2.8 - 15.3 Nm	0.12	9 3/4	7/8	4/8
2502MRPHW	3/8	30-250 in. lb.	1	4.0 - 27.7 Nm	0.12	11	7/8	5/8
10002MRPHW	3/8	150-1000 in. lb.	5	19.8 - 110.2 Nm	0.6	15 3/4	1 1/8	3/4
1002MFRPHW	3/8	10-100 ft. lb.	1	16.9 - 132.2 Nm	0.7	15 3/4	1 1/8	3/4
2503MFRPHW	1/2	30-250 ft. lb.	1	47 - 332 Nm	1.4	24 1/2	1 5/8	7/8
6004MFRPHW	3/4	100-600 ft. lb.	5	169 - 779 Nm	6.8	41 3/16	2 1/2	2 3/8

Made in U.S.A.

Features

- Dual scale, calibrated dual direction
- Positive lock with spring loaded pull down lock ring
- Fast, accurate and easy to set
- Easy-to-read laser marked scale
- 1/4", 3/8", 1/2" Drive feature quick release buttons which provide good socket retention as well as easy socket removal
- Ergonomic comfort-grip
- Accuracy: ± 3% CW of indicated value CW from 20% to 100% of full scale
- Meets or exceeds ASME standards, ISO 6789 standards
- Individually serialized with ma hing certificate of calibration traceable to N.I.S.T.

6004MFRPHW

WARNING

MICROMETER ADJUSTABLE TORQUE WRENCHES - DUAL SCALE

Metal Handle Dual Scale

Product Code	Drive Size (In.)	English Range	Incr.	Nm Range	Incr.	Overall Length (In.)	Head Width (In.)	Head Depth (In.)
501MRMHW	1/4	10-50 in. lb.	0.50	1.4 - 5.4 Nm	0.50	9 5/8	7/8	1/2
1501MRMHW	1/4	20-150 in. lb.	0.50	2.8-15.3 Nm	0.120	9 3/4	7/8	1/2
1502MRMHW	3/8	20-150 in. lb.	1	2.8 - 15.3 Nm	0.12	9 3/4	7/8	5/8
2002MRMHW	3/8	30-200 in. lb.	1	4.0 - 22.0 Nm	0.12	10	7/8	5/8
2502MRMHW	3/8	30-200 in. lb.	1	4.0 - 27.7 Nm	0.12	10 7/8	7/8	5/8
7502MRMHW	3/8	100-750 in. lb.	5	14.1 - 81.9 Nm	0.60	15 5/16	7/8	5/8
10002MRMHW	3/8	150-1000 in. lb.	5	19.8 - 110.2 Nm	0.60	15 5/8	7/8	5/8
25003MRMHW	1/2	300-2500 in. lb.	10	39.6 - 276.9 Nm	1.2	19 3/16	1 5/8	7/8
752MFRMHW	3/8	5-75 ft. lb.	0.50	10.2 - 98.3 Nm	0.70	15 1/2	1 1/8	6/8
1002MFRMHW	3/8	10-100 ft. lb.	0.50	16.9 - 132.2 Nm	0.70	15 1/2	1 1/8	6/8
1503MFMHW	1/2	20-150 ft lb.	1	34 - 197 Nm	1.4	18 3/4	1 5/8	7/8
1503MFRMHW	1/2	20-150 ft lb.	1	34 - 194 Nm	1.4	18 3/4	1 5/8	7/8
2503MFRMHW	1/2	30-250 ft. lb.	1	47 - 332 Nm	1.4	24 5/16	1 5/8	7/8
4004MFRMHW	3/4	80-400 ft. lb.	5	85 - 491 Nm	3.4	34 3/16	2 1/2	2 3/8
6004MFRMHW	3/4	100-500 ft. lb.	5	169 - 779 Nm	6.8	41 1/8	2 1/2	2 3/8
10005MFRMHW*	1	200-1000 ft. lb.	5	305 - 1322 Nm	6.8	70 3/16	3 1/8	2 7/8

Features

Made in U.S.A.

- Knurled metal handle offers a tough, non-slip grip
- Dual scale, calibrated dual direction
- Positive lock with spring loaded pull down lock ring
- Fast, accurate and easy to set
- Easy-to-read laser marked scales
- 1/4", 3/8", 1/2" Drive feature quick release buttons which provide good socket retention as well as easy socket removal
- Accuracy: ± 3% CW of indicated value CW from 20% to 100% of full scale
- Individually serialized with ma hing certificate of calibration traceable to N.I.S.T.

*NOTE: 10005MFRMH supplied with one extension handle and is packed in a metal box.

501MRMHW

INTERCHANGEABLE HEAD TORQUE WRENCHES

Features

- Interchangeable heads permit ratcheting, fixed, or open end torquing capability with adjustable torque wrench bodies.
- A push of the locking pin provides quick-change action, with a wide range of head styles to choose from.
- Micrometer Type Adjustment-ensures fast, accurate settings and changes.
- *Part Number 800NMIMH has Dual Pin Release for added strength
- Accuracy: ± 3% of indicated value, in direction of torque indicator, from 20% to 100% of full scale

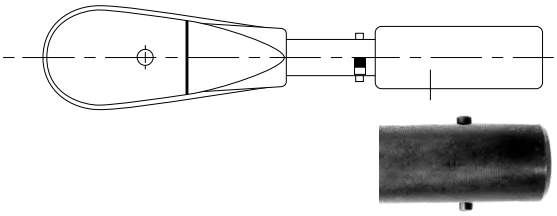
INTERCHANGEABLE HEAD TORQUE WRENCHES - DUAL SCALE

Product Code	Shank Size	Nm Range	Incr.	English Range	Overall Length (In.)
50NMIMHW	J	10 - 50	0.5	9.2 - 35	17
100NMIMHW	J	20 - 100	0.5	16.5 - 71.9	20
200NMIMHW	Y	40 - 200	2	37 - 140	22 ½
350NMIMHW	X	70 - 350	2	59 - 251	24 ½
800NMIMHW*	Z	150 - 800	5	129 - 572	48

INTERCHANGEABLE HEAD TORQUE WRENCHES - SINGLE SCALE

Product Code	Shank Size	English Range	Incr.	Overall Length (In.)
75MFIMHSSW	J	5 - 75	0.5	16
150MFIMHSSW	Y	20 - 150	1	17
250MFIMHSSW	Y	30 - 250	1	23

Made in U.S.A.



Z Shank Dual Pins

150MFIMHSSW

Interchangeable heads sold separately on pages 68-73.

WARNING

SINGLE SETTING TORQUE WRENCHES

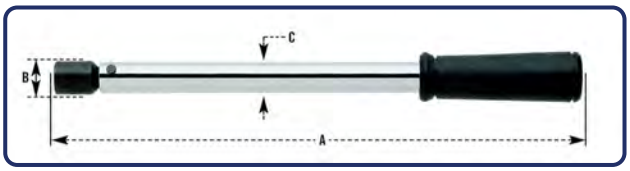
Product Code Un-Set	Product Code Factory Pre-Set	English Range	Nm Range	Shank Size	Overall Length (In.)	Head Width (In.)	Head Depth (In.)
5T-IW	5T-I-SETW	10-50 in. lb.	1.1 - 5.6	J	6 1/2	5/8	5/8
10T-IW	10T-I-SETW	50 - 250 in. lb.	5.6 - 28	J	10	5/8	5/8
10ST-IW	10ST-I-SETW	60 - 300 in. lb.	6.8 - 34	J	6	5/8	1
50T-IW	50T-I-SETW	15 - 75 ft. lb.	20 -102	J	11	5/8	1
100T-IW	100T-I-SETW	30 - 150 ft. lb.	41 - 203	Y	19 1/2	1	1
200T-IW	200T-I-SETW	40 - 200 ft. lb.	54 - 271	Y	23 1/2	1	1
300T-IW	300T-I-SETW	100 - 300 ft. lb.	135 - 406	X	27 1/2	1	1
600T-IW	600T-I-SETW	120 - 600 ft. lb.	162 - 814	Z	55	1 1/2	1 1/4

Made in U.S.A.

Features

- Designed for use on production lines and other applications where a specific torque is required for repetitive operations
- Factory Pre-Set models are set at the factory to the customer's specified torque setting, and are furnished with a Certificate of Calibration.
- Please specify desired torque setting when order is placed.
- Featuring a durable, non-slip cushion grip
- Uses universal round shank interchangeable heads
- Audible click and feel impulse torque control mechanism
- Tamper proof torque setting for production line use
- Accuracy: ± 3% CW of indicated value, in direction of torque indicator, from 20% to 100% of full scale
- Meets or exceeds ASME B107.300-2010

Z Shank Dual Pins



RATCHETING SQUARE DRIVE HEADS - SAE

Z Shank Dual Pins

Square Drive (Inches)	J (0.425")	Max Torque Ft. Lbs.	Y (0.560")	Max Torque Ft. Lbs.	X (0.735")	Max Torque Ft. Lbs.	Z (0.990")	Max Torque Ft. Lbs.	Z Dual Pins	Max Torque Ft. Lbs.
1/4	QJD8A-72	60								
3/8	QJD12A-80	60	QYD12A-80	100						
1/2	QJD16A	60	QYD16A	240	QXD16A	240				
3/4					QXD24A	240	QZD24B	480	QZD24BDP	480
1					QXD32A	240	QZD32B	480	QZD32BDP	480

QJD16A

FIXED SQUARE DRIVE HEADS - SAE

Z Shank Dual Pins

Square Drive (Inches)	J (0.425")	Max Torque Ft. Lbs.	Y (0.560")	Max Torque Ft. Lbs.	X (0.735")	Max Torque Ft. Lbs.	Z (0.990")	Max Torque Ft. Lbs.	Z Dual Pins	Max Torque Ft. Lbs.
1/4	QJSD8A	60								
3/8	QJSD12A	60	QYSD12A	100						
1/2	QJSD16A	60	QYSD16A	160	QXSD16A	240				
3/4					QXSD24A	240	QZSD24A	480	QZSD24ADP	480
1					QXSD32A	240	QZSD32A	480	QZSD32ADP	480

QJSD8A

OPEN END HEADS - SAE

Z Shank Dual Pins

Square Drive (Inches)	J (0.425")	Max Torque Ft. Lbs.	Y (0.560")	Max Torque Ft. Lbs.	X (0.735")	Max Torque Ft. Lbs.	Z (0.990")	Max Torque Ft. Lbs.	Z Dual Pins	Max Torque Ft. Lbs.
1/4	QJO8A	5								
9/32	QJO9A	7								
5/16	QJO10A	9								
3/8	QJO12A	18								
7/16	QJO14A	26								
1/2	QJO16A	34								
9/16	QJO18A	58	QYO18A	58						
5/8	QJO20A	60	QYO20A	70						
11/16	QJO22A	60	QYO22A	99						
3/4	QJO24A	60	QYO24A	125	QXO24A	125				
13/16	QJO26A	60	QYO26A	160	QXO26A	164				
7/8	QJO28A	60	QYO28A	160	QXO28A	193				
15/16	QJO30A	60	QYO30A	160	QXO30A	200				
1	QJO32A	60	QYO32A	160	QXO32A	240	QZO32A	298	QZO32ADP	298
1 1/16	QJO34A	60	QYO34A	160	QXO34A	240	QZO34A	321	QZO34ADP	321
1 1/8	QJO36A	60	QYO36A	160	QXO36A	240	QZO36A	367	QZO36ADP	367
1 3/16	QJO38A	60	QYO38A	160	QXO38A	240	QZO38A	433	QZO38ADP	433
1 1/4	QJO40A	60	QYO40A	160	QXO40A	240	QZO40A	480	QZO40ADP	480
1 5/16			QYO42A	160	QXO42A	240	QZO42A	480	QZO42ADP	480
1 3/8	QJO44A	60	QYO44A	160	QXO44A	240	QZO44A	480	QZO44ADP	480
1 7/16			QYO46A	160	QXO46A	240	QZO46A	480	QZO46ADP	480
1 1/2	QJO48A	60	QYO48A	160	QXO48A	240	QZO48A	480	QZO48ADP	480
1 9/16			QYO50A	160	QXO50A	240	QZO50A	480	QZO50ADP	480
1 5/8	QJO52A	60	QYO52A	160	QXO52A	240	QZO52A	480	QZO52ADP	480
1 11/16					QXO54A	240	QZO54A	480	QZO54ADP	480
1 3/4			QYO56A	160	QXO56A	240	QZO56A	480	QZO56ADP	480
1 13/16					QXO58A	240	QZO58A	480	QZO58ADP	480
1 7/8			QYO60A	160	QXO60A	240	QZO60A	480	QZO60ADP	480
2					QXO64A	240	QZO64A	480	QZO64ADP	480
2 1/16					QXO66A	240	QZO66A	480	QZO66ADP	480
2 1/8					QXO68A	240	QZO68A	480	QZO68ADP	480
2 1/4			QY072	160			QZO72A	480	QZO72ADP	480
2 3/8									QZO76ADP	480
2 1/2			QY080	160			QZO80A	480	QZO80ADP	480
2 3/4							QZO88A	480		
3							QZO96A	480		

QJO16A

QZO36ADP

Center of fastener to retaining pin:

QJ Series - 2.50"

QY Series - 3.00"

QX Series - 4.50"

QZ Series - 5.75"

Made in U.S.A.

WARNING

OPEN END HEADS - METRIC

QJOM12A

QZOM36ADP

Square Drive (mm)	J (0.425")	Max Torque Ft. Lbs.	Y (0.560")	Max Torque Ft. Lbs.	X (0.735")	Max Torque Ft. Lbs.	Z (0.990")	Max Torque Ft. Lbs.	Z Dual Pins	Max Torque Ft. Lbs.
6	QJOM6A	5								
7	QJOM7A	6								
8	QJOM8A	10								
9	QJOM9A	14								
10	QJOM10A	22								
11	QJOM11A	33								
12	QJOM12A	36								
13	QJOM13A	41								
14	QJOM14A	55	QYOM14A	55						
15	QJOM15A	60	QYOM15A	74						
16	QJOM16A	60	QYOM16A	88						
17	QJOM17A	60	QYOM17A	103	QXOM17A	103				
18	QJOM18A	60	QYOM18A	115	QXOM18A	115				
19	QJOM19A	60	QYOM19A	138	QXOM19A	138				
20	QJOM20A	60	QYOM20A	160	QXOM20A	160				
21	QJOM21A	60	QYOM21A	160	QXOM21A	180				
22	QJOM22A	60	QYOM22A	160	QXOM22A	206				
23	QJOM23A	60	QYOM23A	160	QXOM23A	229				
24	QJOM24A	60	QYOM24A	160	QXOM24A	240	QZOM24A	248	QZOM24ADP	250
25	QJOM25A	60	QYOM25A	160	QXOM25A	240			QZOM25ADP	275
26	QJOM26A	60	QYOM26A	160	QXOM26A	240			QZOM26ADP	298
27	QJOM27A	60	QYOM27A	160	QXOM27A	240	QZOM27A	319	QZOM27ADP	319
29			QYOM29A	160	QXOM29A	240			QZOM29ADP	379
30	QJOM30	60	QYOM30A	160	QXOM30A	240	QZOM30A	413	QZOM30ADP	413
32			QYOM32A	160	QXOM32A	240	QZOM32A	480	QZOM32ADP	480
34			QYOM34A	160	QXOM34A	240			QZOM34ADP	480
36	QJOM36A	60	QYOM36A	160	QXOM36A	240	QZOM36A	480	QZOM36ADP	480
37			QYOM37A	160						
38									QZOM38ADP	480
41			QYOM41	160	QXOM41A	240			QZOM41ADP	480
46					QZOM46A	240	QZOM46A	480	QZOM46ADP	480
50			QZOM50A	180			QZOM50A	480	QZOM50ADP	480
55					QZOM55A	240	QZOM55A	480	QZOM55ADP	480
60			QZOM60A	180	QZOM60A	240	QZOM60A	480	QZOM60ADP	480
65							QZOM65A	480	QZOM65ADP	480
70									QZOM70ADP	480

Z Shank Dual Pins

Made in U.S.A.

OPEN END THIN HEADS - SAE

Square Drive (Inches)	J (0.425")	Max Torque Ft. Lbs.	Y (0.560")	Max Torque Ft. Lbs.
9/16	QJO18ARTH	58		
7/8	QJO28ARTH	60		
11/16	QJO22ARTH60	60		
15/16	QJO30ARTH	60	QYO30ARTH	160
1	QJO32ARTH	60		
1 1/16	QJO34ARTH	60	QYO34ARTH	160
1 1/8	QJO36ARTH	60		
1 3/16	QJO38ARTH	60		
1 1/4	QJO40ARTH	60		
1 3/8	QJO44ARTH	60	QYO44ARTH	160
1 1/2	QJO48ARTH	60	QYO48ARTH	160
1 9/16	QJO50ARTH	60		
1 5/8	QJO52ARTH	60	QYO52ARTH	160
1 11/16	QJO54ARTH	60		
1 3/4	QJO56ARTH	60	QYO56ARTH	160
1 7/8	QJO60ARTH	60	QYO60ARTH	160
2	QJO64ARTH	60	QYO64ARTH	160
2 1/16	QJO66ARTH	60		
2 1/8	QJ068ARTH	60	QYO68ARTH	160
2 1/4			QYO72ARTH	160
2 11/16	QJO86ARTH	60		

QJO38ARTH

12-POINT BOX END 15° OFFSET HEADS - SAE

Z Shank Dual Pins

Square Drive (Inches)	J (0.425")	Max Torque Ft. Lbs.	Y (0.560")	Max Torque Ft. Lbs.	X (0.735")	Max Torque Ft. Lbs.	Z (0.990")	Max Torque Ft. Lbs.	Z Dual Pins	Max Torque Ft. Lbs.
7/32	QJX7A	10								
1/4	QJX8A	18								
9/32	QJX9A	41								
5/16	QJX10A	41								
3/8	QJX12A	60								
7/16	QJX14A	60	QYX14A	60						
1/2	QJX16A	60	QYX16A	75						
9/16	QJX18A	60	QYX18A	112						
5/8	QJX20A	60	QYX20A	160	QXX20A	171				
11/16	QJX22A	60	QYX22A	160	QXX22A	200				
3/4	QJX24A	60	QYX24A	160	QXX24A	219				
13/16	QJX26A	60	QYX26A	160	QXX26A	240	QZX26A	275	QZX26ADP	275
7/8	QJX28A	60	QYX28A	160	QXX28A	240				
15/16	QJX30A	60	QYX30A	160	QXX30A	240	QZX30A	300	QZX36ADP	300
1	QJX32A	60	QYX32A	160	QXX32A	240				
1 1/16	QJX34A	60	QYX34A	160	QXX34A	240	QZX34A	480	QZX34ADP	300
1 1/8			QYX36A	160	QXX36A	240	QZX36A	480	QZX36ADP	480
1 3/16			QYX38A	160	QXX38A	240	QZX38A	480	QZX38ADP	480
1 1/4	QJX40A	60	QYX40A	160	QXX40A	240	QZX40A	480	QZX40ADP	480
1 5/16			QYX42A	160	QXX42A	240	QZX42A	480	QZX42ADP	480
1 3/8			QYX44A	160	QXX44A	240	QZX44A	480	QZX44ADP	480
1 7/16			QYX46A	160	QXX46A	240	QZX46A	480	QZX46ADP	480
1 1/2			QYX48A	160	QXX48A	240	QZX48A	480	QZX48ADP	480
1 9/16			QYX50A	160	QXX50A	240	QZX50A	480	QZX50ADP	480
1 5/8			QYX52A	160	QXX52A	240	QZX52A	480	QZX52ADP	480
1 11/16					QXX54A	240	QZX54A	480	QZX54ADP	480
1 3/4					QXX56A	240	QZX56A	480	QZX56ADP	480
1 13/16					QXX58A	240	QZX58A	480	QZX58ADP	480
1 7/8					QXX60A	240	QZX60A	480	QZX60ADP	480
2					QXX64A	240	QZX64A	480	QZX64ADP	480
2 1/16							QZX66A	480	QZX66ADP	480
2 1/8							QZX68A	480	QZX68ADP	480
2 3/16									QZX70ADP	480
2 1/4					QXX72A	240	QZX72A	480	QZX72ADP	480
2 3/8									QZX76ADP	480
2 1/2							QZX80A	480	QZX80ADP	480
2 9/16							QZX82A	480		

QJX12A

Made in U.S.A.

12-POINT BOX END 0° OFFSET - SAE

Square Drive (Inches)	J (0.425")	Max Torque Ft. Lbs.	Y (0.560")	Max Torque Ft. Lbs.
3/8	QJXD12A	60		
7/16	QJXD14A	60		
1/2	QJXD16A	60		
9/16	QJXD18A	60		
5/8			QYXD20A	160
11/16	QJXD22A	60	QYXD22A	160
3/4	QJXD24A	60	QYXD24A	160
7/8	QJXD28A	60	QYXD28A	160
15/16	QJXD30A	60	QYXD30A	160
1	QJXD32A	60		

QJXD24A

WARNING

12-POINT BOX END 15° OFFSET - METRIC

Z Shank Dual Pins

Square Drive (mm)	J (0.425")	Max Torque Ft. Lbs.	Y (0.560")	Max Torque Ft. Lbs.	X (0.735")	Max Torque Ft. Lbs.	Z (0.990")	Max Torque Ft. Lbs.	Z Dual Pins	Max Torque Ft. Lbs.
6	QJXM6A	15								
7	QJXM7A	20								
8	QJXM8A	22								
9	QJXM9A	30								
10	QJXM10A	53								
11	QJXM11A	59								
12	QJXM12A	60								
13	QJXM13A	60	QYXM13A	75						
14	QJXM14A	60	QYXM14A	117						
15	QJXM15A	60	QYXM15A	148	QXXM14A	117				
16	QJXM16A	60	QYXM16A	160	QXXM16A	183				
17	QJXM17A	60	QYXM17A	160	QXXM17A	197				
18	QJXM18A	60	QYXM18A	160	QXXM18A	224				
19	QJXM19A	60	QYXM19A	160	QXXM19A	238			QZXM19ADP	238
20	QJXM20A	60	QYXM20A	160	QXXM20A	240				
21	QJXM21A	60	QYXM21A	160	QXXM21A	240				
22	QJXM22A	60	QYXM22A	160	QXXM22A	240				
23	QJXM23A	60	QYXM23A	160	QXXM23A	240				
24	QJXM24A	60	QYXM24A	160	QXXM24A	240	QZXM24A	375	QZXM24ADP	375
25	QJXM25A	60	QYXM25A	160	QXXM25A	240	QZXM25A	413	QZXM25ADP	413
26	QJXM26A	60	QYXM26A	160	QXXM26A	240	QZXM26A	448	QZXM26ADP	448
27	QJXM27A	60	QYXM27A	160	QXXM27A	240	QZXM27A	480	QZXM27ADP	448
29			QYXM29A	160	QXXM29A	240	QZXM29A	480	QZXM29ADP	480
30			QYXM30A	160	QXXM30A	240	QZXM30A	480	QZXM30ADP	480
32			QYXM32A	160	QXXM32A	240	QZXM32A	480	QZXM32ADP	480
34			QYXM34A	160	QXXM34A	240	QZXM34A	480	QZXM34ADP	480
36			QYXM36A	160	QXXM36A	240	QZXM36A	480	QZXM36ADP	480
41					QXXM41A	240			QZXM41ADP	480
46					QXXM46A	240			QZXM46ADP	480
50									QZXM50ADP	480
55									QZXM55ADP	480
60									QZXM60ADP	480

QJXM12A

Made in U.S.A.

12 POINT RATCHET WRENCH HEADS - METRIC

Square Drive (mm)	J (0.425")	Max Torque Ft. Lbs.	Y (0.560")	Max Torque Ft. Lbs.
10	QJBOERM10A	60		
13	QJBOERM13A	60		
14	QJBOERM14A	60		
15	QJBOERM15A	60		
16	QJBOERM16A	60	QYBOERM16A	160
18	QJBOERM18A	60	QYBOERM18A	160
19	QJBOERM19A	60		
22	QJBOERM22A	60	QYBOERM22A	160
24	QJBOERM24A	60	QYBOERM24A	160

QJBOERM18

12 POINT RATCHET WRENCH HEADS - SAE

Square Drive (Inches)	J (0.425")	Max Torque Ft. Lbs.	Y (0.560")	Max Torque Ft. Lbs.
3/8	QJBOER12A	60	QYBOER12A	60
7/16	QJBOER14A	60		
1/2	QJBOER16A	60		
9/16	QJBOER18A	60	QYBOER18A	112
5/8	QJBOER20A	60	QYBOER20A	160
11/16			QYBOER22A	160
3/4	QJBOER24A	60	QYBOER24A	160
15/16			QJBOER30A	160

QJBOER14

12-POINT BOX END 10° OFFSET - SAE

Square Drive (Inches)	J (0.425")	Max Torque Ft. Lbs.	Y (0.560")	Max Torque Ft. Lbs.	X (0.735")	Max Torque Ft. Lbs.
1/2	QJXB16A	60				
9/16	QJXB18A	60				
5/8	QJXB20A	60	QYXB20A	79		
11/16	QJXB22A	60				
3/4	QJXB24A	60	QYXB24A	160		
7/8			QYXB28A	133		
15/16			QYXB30A	160		
1			QYXB32A	160		
1 1/8			QYXB36A	160		
1 3/8					QXXB44A	240
1 1/2					QXXB48A	240

QJXB18A

12-POINT BOX END 10° OFFSET - METRIC

Square Drive (mm)	J (0.425")	Max Torque Ft. Lbs.	Y (0.560")	Max Torque Ft. Lbs.
11mm	QJXBM11A	59		
12mm	QJXBM12A	60		
13mm	QJXBM13A	60		
14mm	QJXBM14A	60		
15mm	QJXBM15A	60		
16mm	QJXBM16A	60		
18mm	QJXBM18A	60	QYXBM18A	160
19mm	QJXBM19A	60		
24mm			QYXBM24A	160
28mm			QYXBM28A	160

QJXBM11A

12-POINT BOX END 40° BEND - METRIC

Square Drive (mm)	Y (0.560")	Max Torque Ft. Lbs.
16	QYSBXM16A	60
18	QYSBXM18A	160
24	QYSBXM24A	160

QYSBXM18A

12 POINT FLARE NUT HEADS - SAE

Square Drive (Inches)	J (0.425")	Max Torque Ft. Lbs.	Y (0.560")	Max Torque Ft. Lbs.
1/2	QJRX16A	60		
9/16	QJRX18A	60	QYRX18A	67
5/8	QJRX20A	60	QYRX20A	79
11/16	QJRX22A	60	QYRX22A	92
3/4	QJRX24A	60	QYRX24A	104
13/16	QJRX26A	60	QYRX26A	117
7/8	QJRX28A	60	QYRX28A	133
15/16	QJRX30A	60	QYRX30A	146
1	QJRX32A	60	QYRX32A	158
1 1/16	QJRX34A	60	QYRX34A	160
1 1/8	QJRX36A	60	QYRX36A	160
1 3/16			QYRX38A	160
1 1/4			QYRX40A	160
1 3/8			QYRX44A	160
1 7/16			QYRX46A	160
1 1/2			QYRX48A	160
1 9/16			QYRX50A	160
1 5/8			QYRX52A	160
1 7/8			QYRX60A	160
2			QYRX64A	160
2 1/4			QYRX72A	160

QJRX22A

Made in U.S.A.

⚠WARNING

QJRXSM11A

6 POINT FLARE NUT HEADS - METRIC

Square Drive (mm)	J (0.425")	Max Torque Ft. Lbs.	Y (0.560")	Max Torque Ft. Lbs.
8	QJRXSM8A	17		
9	QJRXSM9A	25		
10	QJRXSM10A	33		
11	QJRXSM11A	42		
12	QJRXSM12A	50		
13	QJRXSM13A	58	QYRXSM13A	58
14	QJRXSM14A	60		
15	QJRXSM15A	60	QYRXSM15A	71
16	QJRXSM16A	60	QYRXSM16A	75
17	QJRXSM17A	60	QYRXSM17A	83
18	QJRXSM18A	60	QYRXSM18A	94
19	QJRXSM19A	60	QYRXSM19A	104
20	QJRXSM20A	60	QYRXSM20A	113
21			QYRXSM21A	113
28			QYRXSM28A	120

QJRXS8A

6 POINT FLARE NUT HEADS - SAE

Square Drive (Inches)	J (0.425")	Max Torque Ft. Lbs.	Y (0.560")	Max Torque Ft. Lbs.
1/4	QJRXS8A	6		
5/16	QJRXS10A	17		
3/8	QJRXS12A	29		
7/16	QJRXS14A	42		
1/2	QJRXS16A	54		
9/16	QJRXS18A	60	QYRXS18A	74
5/8	QJRXS20A	60	QYRXS20A	74
11/16	QJRXS22A	60	QYRXS22A	92
3/4	QJRXS24A	60	QYRXS24A	104
13/16	QJRXS26A	60	QYRXS26A	117
7/8	QJRXS28A	60	QYRXS28A	133
15/16	QJRXS30A	60	QYRXS30A	146
1	QJRXS32A	60	QYRXS32A	158
1 1/8	QJRXS36A	60	QYRXS36A	160
1 1/4			QYRXS40A	160

Made in U.S.A.

RTWH40J

RATCHETING FLARE NUT HEAD

Square Drive (Inches)	Square Drive (mm)	J (0.425")	Y (0.560")	X (0.735")
3/8			RTWH24Y	
	11mm	RTWHM11J		
1/2		RTWH32J		
9/16		RTWH36J	RTWH36Y	
5/8		RTWH40J	RTWH40Y	
11/16		RTWH44J	RTWH44Y	
3/4		RTWH48J	RTWH48Y	
13/16		RTWH52J		
7/8		RTWH56J	RTWH56Y	
15/16		RTWH60J	RTWH60Y	
1		RTWH64J	RTWH64Y	
1 1/8			RTWH72Y	
1 1/4			RTWH80Y	RTWH80X
1 3/8			RTWH88Y	
1 1/2			RTWH96Y	RTWH96X
	16mm	RTWHM16J		
1 5/8			RTWH104Y	
1 3/16				RTWH116X
1 7/8			RTWH120Y	RTWH120X
2 1/8			RTWH136Y	
2 3/16			RTWH140Y	

QZD32A-1 QZ-X

ADAPTORS

Product Code	Descriptions
QJ-Y	J Male to Y Female
QXY	X Male to Y Female
QY-X	Y Male to X Female
QZ-X	Z Male to X Female
QZD32A-1	Z Shank 1 Drive Ratchets

Made in U.S.A.

TORQUE MULTIPLIERS WITH HANDLES

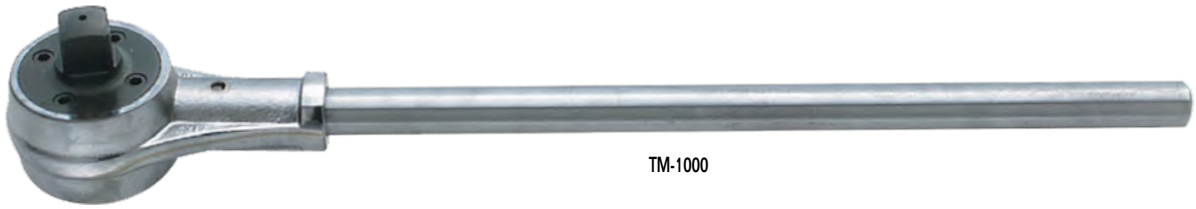
Features

- Provides the operator with nut-turning power that requires only a fraction of the force required when using conventional tools.
- Input and output rotation is in the same direction.
- Reaction bar rotation is opposite to input direction and must rest securely against a rigid object to withstand the generated reaction force.
- By removing 4 screws, heads may be easily disassembled for inspection, cleaning and lubrication.

Product Code	Max Output Ft. Lbs.	Multiplication Ratio*	Approx. Ft. Lbs. Rq'd for Max Output	Input Female Sq.	Output Male Sq.	Head Thickness Inc. Tang	Head Diam.	Oal. Lgth. Inc. Reaction Bar
TM-750LW	1000	3.6 to 1	275	½	¾	3 9/32	3 ½	22 ½
TM-1000	2000	3.6 to 1	550	¾	1	4 ⅜	3 17/32	24
TM-1500	4000	3.9 to 1	1150	1	1 ½	6 ⅛	5 3/16	28 ⅞
TM-2000	8000	4.6 to 1	1915	1	1 ½	6 ¼	6 ½	31
TM-2500	12000	5.4 to 1	2200	1	2 ½	7 ¼	7 ¼	30

* Multipliers are mechanical devices which have frictional losses. A 10% factor was included in the multiplication ratio. For higher accuracy of multiplication ratio, output of unit should be checked on torque tester.

Made in U.S.A.



TM-1000

TORQUE MULTIPLIERS WITH PLANETARY-GEAR MECHANISM

Features

- Designed where high torques are necessary for fastening or breaking out stubborn fasteners.
- Allows operator safe and easy means of producing torque for job requirements.
- Precision planetary gear multiplies the operator's input from standard torque wrenches.
- Can also multiply the torque from air-driven (non-impact) wrenches.

Product Code	Max Output Ft. Lbs.	Input Cap	Gear Ratio	Torque Ratio	Input Female Sq.	Output Sq. Size	Overall Length	Head Height Sq. to Top	Head Dia.
TM-290	750	227	4:1	3:1	½	¾	8 ½	3 ¼	2 13/16
TM-391	1200	200	6:3:1	6:0:1	½	¾	19 39/64	4	3 15/16
TM-392	2200	162	15:0:1	13:6:1	½	1	19 39/64	5 ¾	4 1/16
TM-393	3200	173	20:25:1	18:5:1	½	1	19 39/64	6 ½	4 1/16

Made in U.S.A.

TM-290

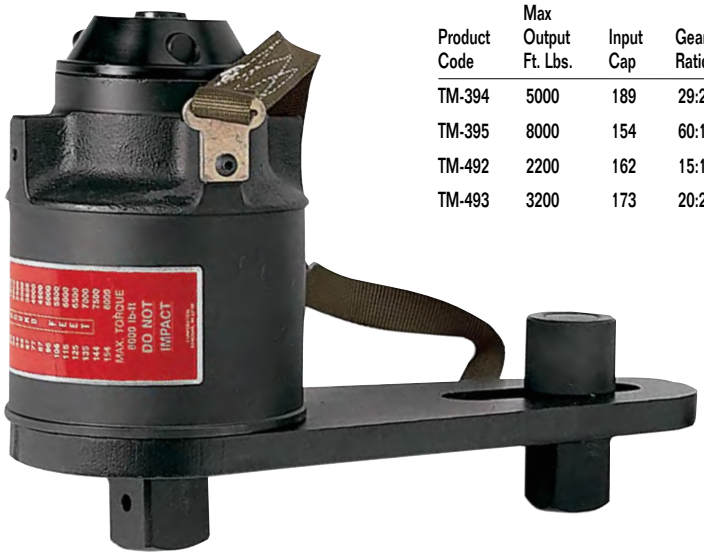
TM-391

⚠WARNING

PLATE REACTION TORQUE MULTIPLIERS

Features

- Input torque holding ra het - holds multiplier in place during torquing.
- Needle bearing construction for high efficiency.
- Standard reaction plate meets most job applications.
- Shearable output squares - to protect tool during overload.



Product Code	Max Output Ft. Lbs.	Input Cap	Gear Ratio	Torque Ratio	Input Female Sq.	Output Sq. Size	Overall Length	Head Height Sq. to Top	Head Dia.
TM-394	5000	189	29:25:1	26:5:1	½	1 ½	14 29/32	8 ¾	5 5/8
TM-395	8000	154	60:1	52:0:1	½	1 ½	15 13/64	10 ¾	5 13/16
TM-492	2200	162	15:1	13:6:1	½	1	14	5 ½	4 7/8
TM-493	3200	173	20:25:1	18:5:1	½	1	14	6 7/16	4 7/8

Made in U.S.A.

REPLACEMENT SQUARE DRIVES FOR TORQUE MULTIPLIERS

Replacement square drives for planetary-gear and plate reaction torque multipliers.

Product Code	Description
TM-391RSD	Repl. Sq Drive For TM-391
TM-392RSD	Repl. Sq Drive For TM-392 and TM-492
TM-393RSD	Repl. Sq Drive For TM-393 and TM-493
TM-394RSD	Repl. Sq Drive For TM-394
TM-395RSD	Repl. Sq Drive For TM-395

Made in U.S.A.

TORQUE PRODUCTS REPAIR AND CALIBRATION SERVICE

Trust the Williams Factory Service Center for all of your Williams torque product repair and calibration work. Use our convenient service website (**www.williamsfactoryservice.com**) to check services available, flat rate repair pricing, and to order and track your repair and calibration requests. The website enables you to order all regular paid repair and calibration services, as well as any warranty work needed.

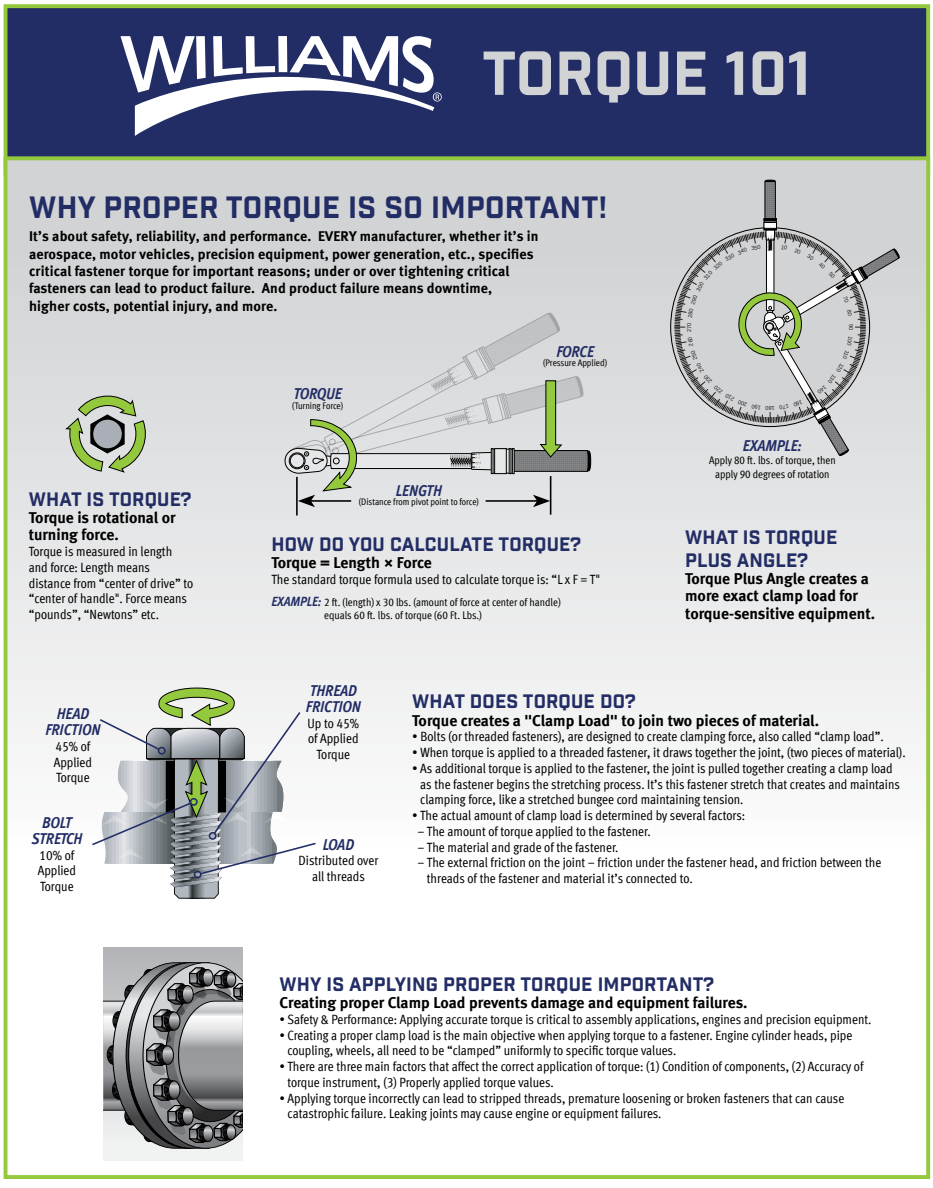
The Williams torque tool factory and repair facility is located in City of Industry (Los Angeles), California. The factory has been ISO 9001 certified since 1998. The Williams Factory Service center repairs and calibrates with N.I.S.T. (National Institute of Standards and Technology) traceable calibration equipment, and Williams Torque Products meet or exceed ASME and ISO standards. Rely on the Williams Torque Products Factory Service Center to do the job right.

www.williamsfactoryservice.com

TORQUE 101

Need help educating your department or shop staff on why applying the correct torque is critical to proper assembly or maintenance operations?

The Williams **Torque Wrench 101** "textbook" is the perfect, simple and quick-read reference to train staff on what torque is. It explains why proper torque is important, torque wrench applications, proper torque wrench selection, and much more. Ask your Williams representative for your laminated copy today.



TOOLS@HEIGHT™

MASTER SETS 80
LANYARDS 91
TOOL HOLSTERS 94
WRENCHES 98
TORQUE WRENCHES 108
SOCKETS & DRIVE TOOLS 109
SCREWDRIVERS 120
PLIERS 122
HAMMERS 127
PUNCHES & CHISELS 129
HACKSAWS / SCRAPERS 133
MISCELLANEOUS TOOLS 135

WILLIAMS®

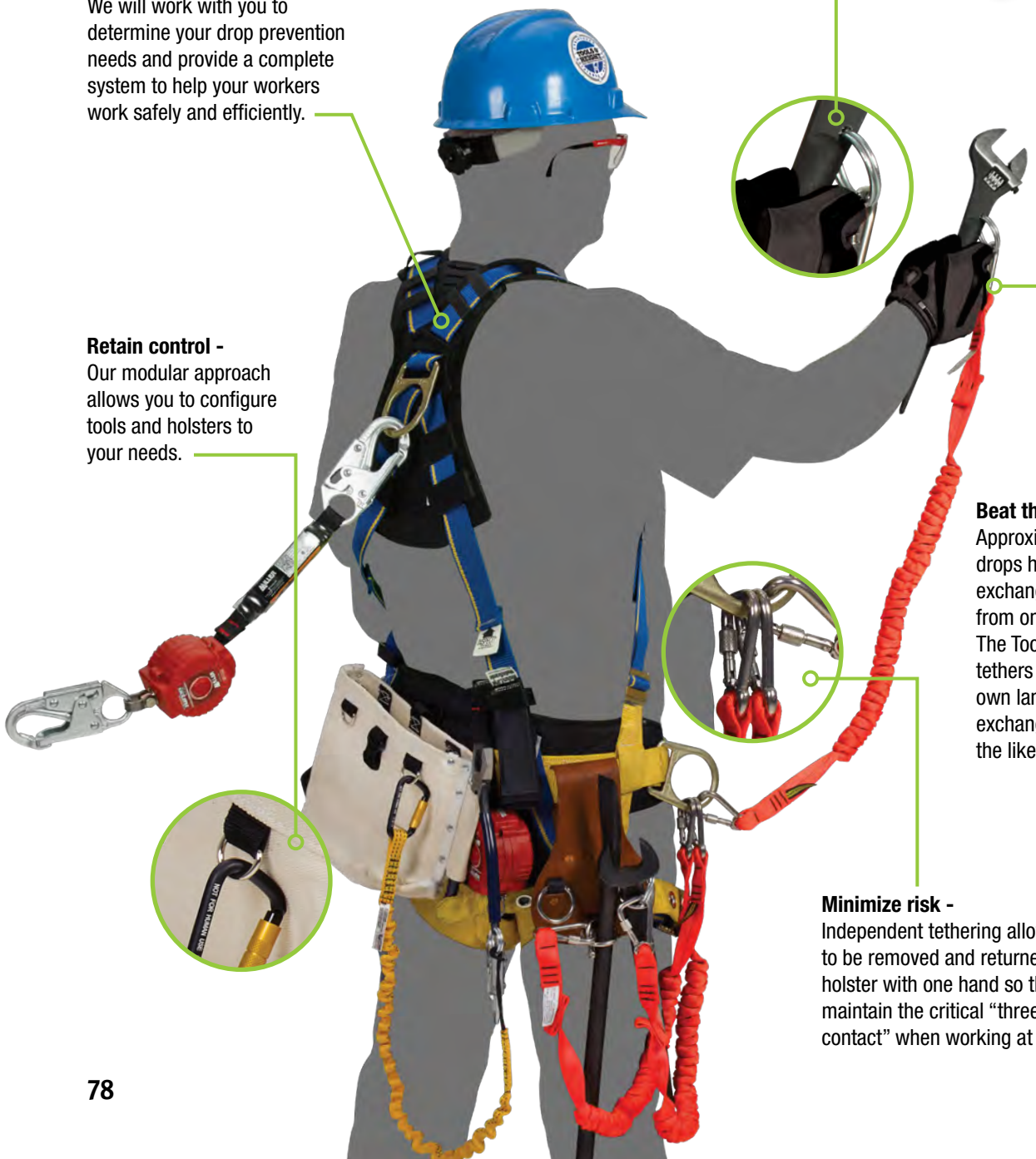
YOU DON'T HAVE TO CHOOSE BETWEEN SAFETY OR PRODUCTIVITY. YOU CAN HAVE BOTH!

Safety and productivity are critical to your company's efficiency and profitability and the loss of productivity can occur for a variety of reasons. That's why we designed the Tools@ Height™ system to provide effective, reliable drop prevention that keeps your workers safe…and working.

ENGINEERED · TESTED · CERTIFIED
TOOLS @ HEIGHT
DROP PREVENTION SYSTEM

Save time and money -
Engineered attachment points don't interfere with the functionality of the tools.

Leave it to the experts -
We will work with you to determine your drop prevention needs and provide a complete system to help your workers work safely and efficiently.



Retain control -
Our modular approach allows you to configure tools and holsters to your needs.

Beat the statistics -
Approximately 70% of drops happen during the exchange of the lanyard from one tool to another. The Tools@Height System tethers each tool with its own lanyard, minimizing exchanges and reducing the likelihood of drops.

Minimize risk -
Independent tethering allows a tool to be removed and returned to its holster with one hand so the user can maintain the critical "three points of contact" when working at height.

TOOLS@HEIGHT™

EFFECTIVE, RELIABLE DROP PREVENTION

WILLIAMS® OFFERS A FULL LINE OF TOOLS FOR WORKING AT HEIGHT

Rotating Screwdriver Tabs

- Located for secure retention allowing full use of the screwdriver handle
- Stainless steel tab is corrosion resistant and rotates freely 360° so the lanyard does not wrap around the users hand
- Nylon bushing has a shoulder so the tab will not bind between the handle and shank bolster

Sliding Wrench Safety Coils

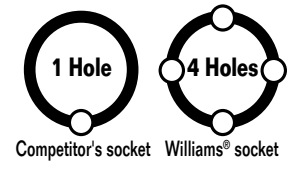
- Superior design with high performance polished stainless steel for superior flexibility and shock-absorbing qualities plus no welds to fail
- Seven different sizes are utilized in the program to support wrenches up to 1-1/2" or 55mm (coils not sold separately)
- Slides out of the way along the wrenches handle to provide full use and achieve greatest leverage

Pinned Tang on Pipe Wrenches

- Pin secures the tang so that it cannot become separated from the handle

Spring Loaded Lock Buttons for Square Drive Tools and Accessories

- Lock button engages with side lock holes in sockets, extensions, and adaptors ensuring positive retention
- Sockets, extensions, and adaptors feature a locking hole on all four sides, not just one, as found on typical competitor's sockets



Competitor's socket Williams® socket

THPRTA Pin Release Tool for Williams® Square Drive Tools

TOOLS@HEIGHT™ MASTER MAINTENANCE TOOL SET

Contains the following tools:

Product Category	Product Category
Adjustable & Miscellaneous Wrenches	Miscellaneous Tools
Combination, Box, & Open End Wrenches	Pliers
Hammers	Pry Bars, Punches & Chisels
Hand Sockets, Ratchets, & Accessories	Screwdrivers & Nut drivers
Hex Keys & Sockets	Tool Storage
Impact Sockets & Accessories	Tools@Height Tethers, Lanyards,& Specialties

Set Configurations Available

Product Code	Description
JHWSC409THTB	Complete Tools@Height Master Maintenance Tool Set With Tool Boxes
JHWWSC409TH	Complete Tools@Height Master Maintenance Tool Set Only

Tool Boxes Included

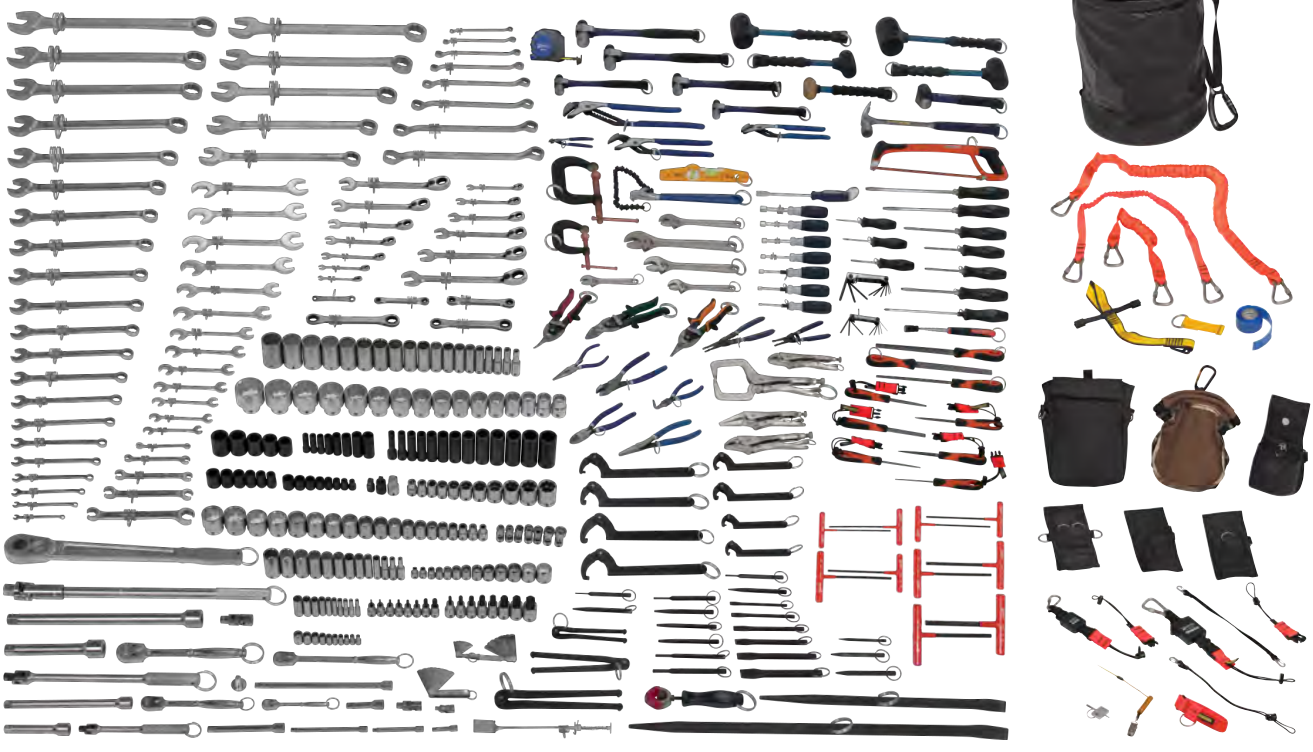
Product Code	Description
JHWW40TC4	40" Wide x 20" Deep 4 Drawer Top Chest
JHWW40RC7	40" Wide x 20" Deep 7 Drawer Tool Cabinet

Features

- The Tools@Height Master Maintenance set provides a great assortment of tools for all types of maintenance applications
- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Productivity and safety right out of the box
- Many applications - any industry where a dropped tool could harm personnel, damage machinery or cost production time
- High level uses - drilling derricks, wind turbines, cranes, buildings, bridges, masts, powerlines, hangars, scaffold builders
- Low level uses - stop tools dropping onto flight hardware, into engines, machinery, food production lines, vats, mine shafts, even under water uses
- Set is available with foamed tool control drawers on a special order basis
- Tools@Height sets contain an assortment of pouches and lanyards designed for use with a suitable belt such as the Comfort and Utility belts on page 96

JHWW40TC4

JHWW40RC7



JHWWSC409TH

⚠WARNING

Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

Master set cabinetry and contents are subject to change and may not be exactly as illustrated and listed. Visit williams-industrial.com for master set listings.

JHWW26TC4

JHWW26RC7

TOOLS@HEIGHT™
INTERMEDIATE MAINTENANCE SERVICE SET

Contains the following tools:

Product Category	Product Category
Adjustable & Miscellaneous Wrenches	Miscellaneous Tools
Combination, Box, & Open End Wrenches	Pliers
Hammers	Pry Bars, Punches & Chisels
Hand Sockets, Ratchets, & Accessories	Screwdrivers & Nut drivers
Hex Keys & Sockets	Tool Storage
Impact Sockets & Accessories	Tools@Height Tethers, Lanyards,& Specialties

Set Configurations Available

Product Code	Description
JHWSC225THTB	Complete Tools@Height Intermediate Tool Set With Tool Boxes
JHWWSC225TH	Complete Tools@Height Intermediate Tool Set Only

Tool Boxes Included

Product Code	Description
JHWW26TC4	26" Wide x 20" Deep 4 Drawer Top Chest
JHWW26RC7	26" Wide x 20" Deep 7 Drawer Tool Cabinet

Features

- The Tools@Height Intermediate Maintenance set provides a full complement of tools
- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Productivity and safety right out of the box
- Many applications - any industry where a dropped tool could harm personnel, damage machinery or cost production time
- High level uses - drilling derricks, wind turbines, cranes, buildings, bridges, masts, powerlines, hangars, scaffold builders
- Low level uses - stop tools dropping onto flight hardware, into engines, machinery, food production lines, vats, mine shafts, even under water uses
- Set is available with foamed tool control drawers on a special order basis
- Tools@Height sets contain an assortment of pouches and lanyards designed for use with a suitable belt such as the Comfort and Utility belts on page 96

JHWWSC225TH

Any tool that weighs more than 5 pounds should be attached to an anchor point such as a work platform or utility bucket rather than the operator.

TOOLS@HEIGHT™ GENERAL MAINTENANCE SERVICE SET

Contains the following tools:

Product Category	Product Category
Adjustable & Miscellaneous Wrenches	Pliers
Combination, Box, & Open End Wrenches	Pry Bars, Punches & Chisels
Hammers	Screwdrivers & Nut drivers
Hand Sockets, Ratchets, & Accessories	Tool Storage
Hex Keys & Sockets	Tools@Height Tethers, Lanyards,& Specialties
Miscellaneous Tools	

Set Configurations Available

Product Code	Description
JHWSC116THTB	Complete Tools@Height General Service Tool Set With Tool Box
JHWWSC116TH	Complete Tools@Height General Service Tool Set Only

Tool Boxes Included

Product Code	Description
JHW50950B	32" Wide x 19" Deep Job Site Box

Features

- The Tools@Height General Maintenance Service set provides a solid complement of tools
- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Productivity and Safety right out of the box
- Many applications - any industry where a dropped tool could harm personnel, damage machinery or cost production time
- High level uses - drilling derricks, wind turbines, cranes, buildings, bridges, masts, powerlines, hangars, scaffold builders
- Low level uses - stop tools dropping onto flight hardware, into engines, machinery, food production lines, vats, mine shafts, even under water uses
- Set is available with foamed tool control drawers on a special order basis
- Tools@Height sets contain an assortment of pouches and lanyards designed for use with a suitable belt such as the Comfort and Utility belts on page 96

JHW50950B

JHWWSC116TH

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

Master set cabinetry and contents are subject to change and may not be exactly as illustrated and listed. Visit williams-industrial.com for master set listings.

TOOLS@HEIGHT™ BASIC MAINTENANCE SERVICE SET

Contains the following tools:

Product Category	Product Category
Adjustable & Miscellaneous Wrenches	Miscellaneous Tools
Combination, Box, & Open End Wrenches	Pliers
Hammers	Pry Bars, Punches & Chisels
Hand Sockets, Ratchets, & Accessories	Screwdrivers & Nut drivers
Hex Keys & Sockets	Tools@Height Tethers, Lanyards,& Specialties

Set Configurations Available

Product Code	Description
JHWWSC-72-TH	Complete Tools@Height Basic Maintenance Tool Set in Safe Bucket

Features

- Furnished in Safe Bucket for easy portability
- Safety right out of the box
- The Tools@Height Basic Maintenance set provides a good start to a Tools@Height tool program
- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Many applications - any industry where a dropped tool could harm personnel, damage machinery or cost production time
- High level uses - drilling derricks, wind turbines, cranes, buildings, bridges, masts, powerlines, hangars, scaffold builders
- Low level uses - stop tools dropping onto flight hardware, into engines, machinery, food production lines, vats, mine shafts, even under water uses
- Williams' Tools@Height sets contain an assortment of pouches and lanyards designed for use with a suitable belt
- An assortment of Comfort and Utility belts can be found on page 96
- The full assortment of Tools@Height lanyards, tethers, and other accessories is on pages 91 through 97

JHWWSC-72-TH

TOOL@HEIGHT™ STARTER PLUS SET

Contains the following tools:

Product Category
Adjustable Wrenches
Combination Wrenches
File
Hammer
Hand Sockets, Ratchets & Accessories
Pick up Tool
Pliers
Screwdriver
Tape Measure
Tools@Height Tethers, Lanyards & Specialties
Grand Total

Set Configurations Available

Product Code	Description
WSC-45-TH	Complete Tools@Height Starter Set in Safe Bucket

Features

- The ideal way to start a drop prevention program
- Use where dropped tools can harm personnel, damage components, or cause down time
- Excellent assortment of basic hand tools for most maintenance applications
- Furnished in Safe Bucket for easy portability

WSC-45-TH

TOOL@HEIGHT™ STARTER SET

Contains the following tools:

Product Category
Adjustable Wrenches
File
Hammer
Pick up Tool
Pliers
Screwdriver
Tape Measure
Tools@Height Tethers, Lanyards & Specialties

Set Configurations Available

Product Code	Description
JHWWSC-27-TH	Complete Tools@Height Starter Set in Safe Bucket

Features

- Ideal for general maintenance work in the factory or job site
- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies.
- Includes tools and assortment of pouches and lanyards designed for use with a suitable belt.
- Williams' Tools@Height sets contain an assortment of pouches and lanyards designed for use with a suitable belt
- An assortment of Comfort and Utility belts can be found on page 96
- The full assortment of Tools@Height lanyards, tethers, and other accessories is on pages 91 through 97

JHWWSC-27-TH

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

Master set cabinetry and contents are subject to change and may not be exactly as illustrated and listed. Visit williams-industrial.com for master set listings.

KWTIWWKIT

TOOLS@HEIGHT™ IRONWORKER'S TOOLKIT

Contains the following tools:

Product Category	Product Category
Pliers	Hammer
Adjustable Construction Wrench	Measuring Tape
Structural Wrench	Tools@Height Tethers, Lanyards & Specialties
Bull Pin	

Set Configurations Available

Product Code	Description
KWTIWWKIT	Ironworker's Tool Kit

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Tool Kit includes the tools, tethers, lanyards needed for ironworkers to work at height

KWTBM

TOOLS@HEIGHT™ BOILMAKER'S TOOL KIT

Contains the following tools:

Product Category	Product Category
Pliers	Torpedo Level
Adjustable Construction Wrench	Hammer
Open End Structural Wrench	Measuring Tape
Bull Pin	Tools@Height Tethers, Lanyards & Specialties

Set Configurations Available

Product Code	Description
KWTBM	Boilmaker's Tool Kit

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Tool Kit includes the tools, tethers, lanyards needed to keep boilermakers safe and productive while working at height

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

Master set cabinetry and contents are subject to change and may not be exactly as illustrated and listed. Visit williams-industrial.com for master set listings.

KWTHRSGHR

TOOLS@HEIGHT™ HRSG HIGH RIGGING TOOLKIT

Contains the following tools:

Product Category	Product Category
Pliers	Hammer
Adjustable Construction Wrench	Measuring Tape
Open End Structural Wrench	Sleever Bar
Bull Pin	Tools@Height Tethers, Lanyards & Specialties
Torpedo Level	

Set Configurations Available

Product Code	Description
KWTHRSGHR	HRSG High Rigging Toolkit

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Tool kit includes bull pin, sleever bars, wrenches, hammer, torpedo level, measuring tape and many more tools with attachment points along with the tethers and lanyards for working at height

Any tool that weighs more than 5 pounds should be attached to an anchor point such as a work platform or utility bucket rather than the operator.

TOOLS@HEIGHT™ PIPEFITTER'S FOREMAN'S TOOLKIT

Contains the following tools:

Product Category	Product Category
Combination Wrenches	Pinch Bar
Sockets	Hex Keys
Drive Tools	Tape Measure
Screwdrivers	Tool Box
Files	Pin Release Tool
Hammer	Tool Pouch

Set Configurations Available

Product Code	Description
KWTPFFOR	Pipefitter's Foreman's Toolkit

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Pipefitter's Foreman's Tool kit includes sockets, drive tools, combination wrenches, screwdrivers and many more tools with attachment points for working at height

KWTPFFOR

TOOLS@HEIGHT™ INDIVIDUAL PIPEFITTER'S TOOLKIT

Contains the following tools:

Product Category	Product Category
Wedges	Adjustable Wrenches
Utility Superjoint Pliers	Measuring Tape
Side Cutters	Tools@Height Tethers, Lanyards & Specialties

Set Configurations Available

Product Code	Description
KWTPFIND	Individual Pipefitter's Toolkit

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Individual Pipefitter's Tool kit includes wedges, pliers, side cutters, hammers, adjustable wrenches and many more tools with attachment points along with the tethers and lanyards for working at height

KWTPFIND

TOOLS@HEIGHT™ PIPEFITTER'S GANG BOX KIT

Contains the following tools:

Product Category	Product Category
Utility Superjoint Pliers	Chisels & Punches
Side Cutters	Ratchet
Adjustable Wrenches	Pipe Wrench
Measuring Tape	Plastic Tool Box
Hammers	

Set Configurations Available

Product Code	Description
KWTPFBOX	Pipefitter's Gang Box Kit

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- Pipefitter's Gang Box Kit includes pliers, hammer, adjustable wrenches and many more tools with attachement points for working at height

KWTPFBOX

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

Master set cabinetry and contents are subject to change and may not be exactly as illustrated and listed. Visit williams-industrial.com for master set listings.

TOOLS@HEIGHT™ INDIVIDUAL ELECTRICIAN'S TOOLKIT

KWTELEKITM

Contains the following tools:

Product Category	Product Category
Pliers, Side Cutter & Crimper	Files
Screwdrivers	Superjoint Pliers
Adjustable Wrenches	Hammers
Chisels & Punches	Hex Key
Hacksaw Frame	Measuring Tape
Torpedo Level	Tools@Height Tethers, Lanyards & Specialties
Miscellaneous Tools	

Set Configurations Available

Product Code	Description
KWTELEKITM	Individual Electrian's Toolkit with S/M Comfort Belt
KWTELEKITL	Individual Electrian's Toolkit with L/XL Comfort Belt
KWTELEKITXL	Individual Electrian's Toolkit with 2X/3X Comfort Belt

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- The Individual Electrician's Toolkit contains an assortment of tools with engineered attachment points, tethers and laynards designed to keep electrican's safe and productive while working at heights

TOOLS@HEIGHT™ ELECTRICIAN CREW KIT

KWTELECWKT

Contains the following tools:

Product Category	Product Category
C-Clamps	Pin Release Tool
Pliers	Sockets
Pipe Wrenches	Combination Wrenches
Files	Level
Hammer	Lift Bucket & Hardhat Lanyard Strap
Drive Tools	

Set Configurations Available

Product Code	Description
KWTELECWKT	Electrian's Crew Kit

Features

- All tools are designed to be used with our tethering and retention systems which maintain or enhance the tools' functionality when used at height or near critical assemblies
- The Electrician's Crew Kit contains an assortment of tools with engineered attachment points, tethers and laynards designed to keep electrican's safe and productive while working at heights

TOOLS@HEIGHT™ SCAFFOLD BUILDING KITS

Kit comes assembled and includes tools shown above. Scaffold builders literally open the box, put on the belt, and go to work with a kit that keeps them safe and increases productivity. Since each tool is independently tethered, any tool can be used and returned to its' holster while still maintaining three points of contact as pictured below

Product Code	Description
JHWWTHSCAFM	Medium
JHWWTHSCAFL	Large
JHWWTHSCAFXL	X-Large

Contents of Scaffold Building Kits:

Product Code	Description
THFSNE3-22SM	Hammer
THFSN25100	Level
JHWBS-63B	Scaffold Ratchet
JHWTM25X1-TH	Tape Measure
JHW13625-TH	Construction Wrench
JHWPL204CTH	Linesman's Pliers
WTHHOLHAMMER	Hammer Holster with Coil Lanyard
PYT1500098	Tape measure Holster
PYT1500096	Scaffold Ratchet Holster w/Bungee Lanyard
PYT1500065	Single Tool Holster
PYT1500107	Dual Tool Holster
BELTCOMF	Belt (Small, Medium, Large or X-Large)
WTHPCHPRTSCO	Small Parts pouch w/ Self-closing system

Features

- Safety & Security
- Holsters are designed with built-in attachment points or retractors
- Tools are tethered to the holster at all times so the risk of dropping a tool while transferring from bag to lanyard is eliminated
- Several holsters also feature hook and loop flaps that secure the tool while being transported
- Customizable
- System is completely modular and can be arranged in any order on the tool belt based on the user's preference
- All Tools @ Height holsters and pouches are also available for individual purchase for attachment to existing tool belts or harnesses

THFSNE3-22SM

JHWBS-63B

JHWPL204CTH

THFSN25100

JHW13625-TH

JHWTM25X1-TH

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

EXTH2LBU10PK

EXTT2T.5X12

THCARA25A

THCARA15SL

THUNI25A

EXTH2L1X72HD

EXTH2R1X72HD

EXTH2L1X72MD

THL2A

THL1A

LANYARDS AND ANCHOR STRAPS

Product Code	Description	Load Rating (lbs)	Extension Length (Inches)	Retracted Length (Inches)	QTY
EXTH2LBU10PK	Carabiner to loop bungee lanyard, Standard Duty 10 pack	10	47	31	10
EXTT2T.5X12	Trigger to trigger web lanyard, Standard Duty	10	12	n/a	1
EXTT2T51210P	Trigger to trigger web lanyard, Standard Duty 10 pack	10	12	n/a	10
THCARA25A	SST Carabiner to Carabiner Bungee Lanyard, Medium Duty	25	124	37-45	1
THCARA15SL	SST Carabiner to Carabiner Bungee Lanyard, Standard Duty	15	47	27	1
THUNI25A	SST Carabiner to Loop Bungee Lanyard, Standard Duty	15	50	30	1
EXTH2L1X72HD	Carabiner to loop web lanyard, Heavy Duty	80	72	n/a	1
EXTH2R1X72HD	Carabiner to rail hook web lanyard, Heavy Duty	80	72	n/a	1
EXTH2L1X72MD	Carabiner to loop web lanyard, Medium Duty	35	72	n/a	1
THL1A	Universal Tether with Carabiner and Loop	5	14	n/a	1
THL2A	Universal Tether with 2 SST Carabiners	5	14	n/a	1

* Tool Lanyards not included with Tool Holsters unless otherwise stated. Tools not included with Tool Holsters.

EXT-H2HCOIL

EXT-T2TCOIL

EXT-H2QRCOIL

EXTC2CCO10PK

EXTC2LCO10PK

PYT1500062

COIL TETHERS

Product Code	Description	Load Rating (lbs)	Extension Length (Inches)	Retracted Length (Inches)	QTY
EXT-H2HCOIL	Patented carabiner to carabiner vinyl coated braided steel tether, Personal Duty	5	67 ½	16 ½	1
EXTH2HCO10PK	Carabiner to carabiner vinyl coated braided steel tether, Personal Duty 10 pack	5	67 ½	16 ½	10
EXT-T2TCOIL	Trigger to Trigger tether, Personal Duty	5	30	9	1
EXTT2TCOI10P	Trigger to Trigger tether, Personal Duty 10 pack	5	30	9	10
EXT-H2QRCOIL	Caraibiner to quick ring tether, Personal Duty	2	65 ½	25	1
EXTH2QRC10PK	Caraibiner to quick ring tether, Personal Duty 10 pack	2	65 ½	25	10
EXTC2CCO10PK	Clip to clip tether, Personal Duty 10 pack	2	44	9	10
EXTC2LCO10PK	Clip to side release loop tether, Personal Duty 10 pack	2	45 ¼	10	10
PYT1500062	Clip to loop hard hat tether 100 pack	2	44 ½	12	100

THUNIRET2A

THRET2CLIPSA

THUNIRET1A

THWSRET1A

THUNI5CLIPSA

THUNIRET3.5

RETRACTABLE TETHERS

Product Code	Description	Load Rating (lbs)	Extension Length (Inches)	Retracted Length (Inches)	QTY
THUNIRET2A	2 LB Retractable Lanyard	2	42	17	1
THRET2CLIPSA	Disconnectable Clips/Loop for THUNIRET2A, 10pk	2	N/A	8	10
THUNIRET1A	Self Flushing Retractable Tether with Disconnectable Loop	1	36	14	1
THRET1CLIPSA	Disconnectable Clips/Loop for THUNIRET1A and THWSRET1A, 10pk	1	N/A	7-3/4	10
THWSRET1A	Personal Duty Retractable Tether	1	49	10	1
THUNI5CLIPSA	Disconnectable Clips/Loop, 10 Pack	5	N/A	-	10
THUNIRET3.5	3.5 LB Retractable Lanyard	3.5	55	11.75	1

⚠WARNING

Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

PULLAWAY WRISTBANDS

Product Code	Size	Load Rating (lbs)	QTY
WB-S	Small	5	1
WB-S-10PK	Small	5	10
WB-M-10PK	Medium	5	10
WB-L	Large	5	1
WB-L-10PK	Large	5	10
WB-SLIMS10PK	Slim / Small	5	10
WB-SLIMM10PK	Slim / Medium	5	10
WB-SLIML10PK	Slim / Large	5	10

Features

- Pullaway wristbands are designed so that they can be escaped from in emergency situations
- Pullaway Wristbands feature an elastic strap that conform to the users wrist size automatically

ADJUSTABLE WRISTBANDS

Product Code	Load Rating (lbs)	QTY
THWSNC	5	1
THWS1A	5	1
WB-ADJ-10PK	5	10
WBADJCRD10PK	5	10
WBADJRET10PK	1.5	10
THWSRET1A	1	1

Features

- Adjustable Wristbands can be sized to virtually any wrist size with Hook and Loop closure straps

Tools not included with Wristbands.

HARD HAT TETHERS

Product Code	Weight Rating	Extension Length (Inches)
THHARDHAT1	1 lb 2 oz	16
THHARDHAT2	1 lb 2 oz	14

Features

- Retractor provides a lower-profile and more comfortable method of hard hat tethering
- Weight Rating: 1lb. 2oz.
- Looped end cinches around hard hat
- Spring clip attaches to clothing or vest to secure hat

PYT1500089

HOL-BOTTLE

HOL-HAMMER

HOL1TOOLBLTR

HOL-1TOOLHAR

HOL-1TOOLXD

HOL2TOOLBLTR

HOL-2TOOLHAR

HOLBOXWHARR

HOLSCAFFWRET

PYT1500100

RET-52STEEL

PYT1500090

TOOL HOLSTERS

Product Code	Description
HOL-ADJRADIO†	Adjustable Radio Holster
PYT1500089	Adjustable Radio Holster Combo (includes EXT-C2LCOIL)
HOL-BOTTLE	Bottle / Spray Can Holster
HOL-HAMMER†	Hammer Holster
HOLHAMMERCOM	Hammer Holster Combo (Includes EXT-H2QRCOIL)
HOL-1TOOLBLT	Single Tool Belt Holster
HOL1TOOLBLTR†	Single Tool Belt Holster with Retractor
HOL-1TOOLHAR	Single Tool Harness Holster
HOL1TOOLHARR†	Single Tool Harness Holster with Retractor
HOL-1TOOLXD†	Extra-Deep Single Tool Holster
HOL-2TOOLBLT	Dual Tool Belt Holster
HOL2TOOLBLTR†	Dual Tool Belt Holster with Retractors

Product Code	Description
HOL-2TOOLHAR	Dual Tool Harness Holster
HOL2TOOLHARR†	Dual Tool Harness Holster with Retractors
HOLBOXWHARR	Box Wrench Holster with Retractor (Harness)
HOLSCAFFWRET†	Scaffold Wrench Holster with Retractor
HOLSCAFFWCOM	Scaffold Wrench Holster with Retractor Combo (Includes EXTH2LBUNGEE)
HOL-TAPERET†	Tape Measure Holster with Retractor
HOLTAPESLEEV†	Tape Measure Sleeve
PYT1500100	Tape Measure Holster with Retractor Combo (Includes HOLTAPESLEEV)
RET-52STEEL	52" Steel Cable Retractor with Polycarbonate Body
PYT1500090	Cordless Tool Battery Holster (Shown with EXTH2LBUNGEE not included)

* Tool Lanyards not included with Tool Holsters unless otherwise stated. Tools not included with Tool Holsters. †Patent Pending

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

PCH-PARTS-CC

SMALL PARTS POUCH

Product Code	Description
PCH-PARTS-CB	Small Parts Pouch - Canvas Black
PCH-PARTS-CC	Small Parts Pouch - Canvas Camo
PCH-PARTS-CO	Small Parts Pouch - Canvas Orange
PCH-PARTS-VY	Small Parts Pouch - Vinyl Yellow
PCHPARTSXDCB	Small Parts Pouch Extra-Deep - Canvas Black

Features

- The patented Small Parts Pouch stops accidental drops with an innovative self-closure system that traps objects inside making it nearly impossible for objects to fall out once placed in the bag
- Easy to retrieve objects since no opening or closing is necessary
- Available is several colors, and a vinyl variant
- Extra-deep Small Parts Pouch is also available for extra storage space

PYT1500132

UTILITY POUCH

Product Code	Description
PYT1500132	Utility Pouch

Features

- Two welded D-Rings on front of pouch to tie off tools
- One additional D-Ring inside pouch
- Two inner pouch pockets for storing tools
- Belt loop on back of pouch
- Two side ears are perfect for holding spud wrenches and sleever bars
- Drain vent on the bottom of the pouch

PCH-INSPECT

INSPECTION POUCH

Product Code	Description
PCH-INSPECT	Inspection Pouch

Features

- Provisional patent pending

PCH-TOOLXD

PCH-TOOL

EXTH2LBUNGEE

TOOL POUCHES

Product Code	Description
PCH-TOOL	Tool Pouch with D-Ring
PCH-TOOLRET	Tool Pouch with D-Ring and Retractors
PCH-TOOLTRIG	Tool Pouch with D-Ring and Triggers
PCH-TOOLXD	Extra Deep Tool Pouch with D-Ring
PCH-TOOLXDRE	Extra Deep Tool Pouch with D-Ring and Retractors
PCH-TOOLXDTR	Extra Deep Tool Pouch with D-Ring and Triggers

Tools not included with Tool Holsters.

Any tool that weighs more than 5 pounds should be attached to an anchor point such as a work platform or utility bucket rather than the operator.

COMFORT TOOL BELTS

Product Code	Waist Size (Inches)
BELTCOMF-S	28" - 32"
BELTCOMF-M	32" - 36"
BELTCOMFL-XL	36" - 44"
BELTCOMF-2XL	44" - 48"
BELTCOMF-3XL	48" - 52"

Features

- A drop prevention tool belt system that's both durable and comfortable
- Modular design allowing the user to customize their own personal holster and pouch set up

BELTCOMF-S

UTILITY BELTS

Product Code	Waist Size (Inches)
PYT1500113	28" - 46"
PYT1500114	40" - 54"

Features

- Utility tool belt features a high strength grommet closure system with padding inside two layers of cordura that provides for durability and comfort

PYT1500113

BELT LOOPS

Product Code	Description	Load Rating (lbs)	QTY
BELTDRLO10PK	Belt Loop D-Ring	5	10
BELTTRLO10PK	Belt Loop Trigger	5	10

Features

- Compatible with all tool belts above
- D-Ring Belt Loop Attachment creates an instant attachment point that is third-party load-rated for 5 lbs.
- Belt Loop Trigger creates an instant staging point that is third-party load-rated for 5 lbs. A thumb release steel trigger snap allows for quick tool transfers while maintaining a secure connection, even while wearing work gloves. Modular design allowing the user to customize their own personal holster and pouch set up.

BELTDRLO10PK

BELTTRLO10PK

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

PYTH1500139

BKT-100HLC

SAFE BUCKETS

Product Code	Closure System	Body Material	Load Rating (lbs)
BKT-100HLC	Hook and Loop	Canvas	100
BKT-100DRAWC	Drawstring	Canvas	100
PYT1500140	Hook and Loop	Vinyl	250
PYT1500139	Drawstring	Vinyl	250

Features

- Every Safe Bucket is manufactured with either a hook and loop or drawstring closure system which helps prevent accidental drops
- All Safe Buckets are third-party load rated
- Sewn into the bottom of every Safe Bucket is hard composite plating that protects the bucket from accidental punctures. A protective leather sleeve covers the inserts that is resilient to the elements and harsh work environments.
- The Safe Bucket was engineered to be used with tools at height, and includes multiple connection points that can be tethered to. Workers can tether their tools directly to the Safe Bucket when being used, and store their tools for transport when finished.
- Instead of rope which is susceptible to fraying, a heavy-duty hoisting/shoulder strap is built into every Safe Bucket. Each bucket is also equipped with a high-quality and lightweight aluminum twist-lock carabiner load rated for 30 kN (6,700 lbs). There is no need to worry about a knot failing, or a non-locking carabiner which may slip off a connection point.
- Safe Buckets are 15 inches tall and have a 12.5 inch Diameter

BKT-HBINSERT

HARD BODY SAFE BUCKET INSERT

Product Code
BKT-HBINSERT

Features

- The Hard Body Safe Bucket Insert converts the standard soft body Safe Bucket into a hard body bucket with four inner pockets for staging tools and small parts. The insert can be removed and reused, and is compatible with all standard Safe Buckets

Tools not included

BKT-48SCAF

EXTRA DEEP SAFE BUCKETS

Product Code	Length (Inches)	Load Rating (lbs)
BKT-48SCAF	48	100
BKT-72SCAF	72	100
BKT-120SCAF	120	100

Features

- Extra Deep Safe Buckets feature a hook and loop closure system allowing for the safe transport of scaffold poles and large tools
- Available in three different lengths
- Third-party load rated for 100 pounds
- A heavy duty webbing hoisting strap comes with a built in twist-lock aluminum carabiner for lifting

TOOLS@HEIGHT™ SUPERCOMBO® COMBINATION WRENCHES

High Polish Chrome and Satin Chrome Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)	Weight (lbs)
JHW1208SC-TH +	1/4	4 1/4	9/16	1/8	13/32	3/16	0.04
JHW1210SC-TH +	5/16	5 3/4	11/16	5/32	1/2	7/32	0.08
JHW1212SC-TH ++	3/8	6 1/2	13/16	3/16	9/16	1/4	0.12
JHW1214SC-TH ++	7/16	7 1/4	15/16	7/32	11/16	9/32	0.17
JHW1216SC-TH ++	1/2	8	1 1/16	1/4	3/4	11/32	0.23
JHW1218SC -TH ++	9/16	8 3/4	1 1/4	1/4	7/8	3/8	0.31
JHW1220SC -TH ++	5/8	9 1/2	1 3/8	9/32	15/16	13/32	0.43
JHW1222SC -TH ++	11/16	10 1/4	1 1/2	5/16	1 1/32	7/16	0.51
JHW1224SC-TH ++	3/4	11	1 5/8	5/16	1 1/8	1/2	0.62
JHW1226SC-TH ++	13/16	11 3/4	1 3/4	3/8	1 7/32	17/32	0.79
JHW1228SC-TH ++	7/8	12 1/2	1 7/8	13/32	1 5/16	9/16	0.96
JHW1230SC -TH ++	15/16	13 1/4	2	7/16	1 3/8	19/32	1.20
JHW1232SC-TH ++	1	14	2 1/8	15/32	1 15/32	5/8	1.48
JHW1234SC -TH ++	1 1/16	14 3/4	2 1/4	1/2	1 9/16	21/32	1.65
JHW1236SC-TH ++	1 1/8	15 1/2	2 13/32	17/32	1 21/32	11/16	1.94
JHW1240SC -TH ++	1 1/4	17	2 21/32	9/16	1 13/16	3/4	2.58
JHW1242-TH **	1 5/16	17 3/4	2 13/16	19/32	1 29/32	3/4	2.96
JHW1244 -TH **	1 3/8	18 1/2	2 15/16	5/8	2	3/4	3.45
JHW1246-TH **	1 7/16	19 1/4	3 1/16	5/8	2 3/32	7/8	3.85
JHW1248-TH **	1 1/2	20 1/32	3 3/16	11/16	2 3/16	7/8	4.29
JHW1180-TH **	1 5/8	21 1/2	3 5/16	11/16	2 11/32	7/8	3.70
JHW1182-TH **	1 11/16	22 9/32	3 7/16	23/32	2 7/16	7/8	5.22
JHW1184-TH **	1 3/4	22 7/8	3 9/16	23/32	2 17/32	1 1/32	5.62
1186-TH **	1 13/16	23 15/32	3 11/16	3/4	2 5/8	1 1/32	6.34
1188-TH **	1 7/8	24 1/32	3 13/16	25/32	2 23/32	1 1/32	6.92
1190-TH **	2	25 1/4	4 1/16	27/32	2 7/8	1 1/32	8.20

JHW1222SC-TH

JHW1180-TH

WS-6-TH 6 Piece Supercombo Combination Wrench Set 2.27 LBS

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1214SC-TH	7/16	JHW1218SC-TH	9/16	JHW1222SC-TH	11/16
JHW1216SC-TH	1/2	JHW1220SC-TH	5/8	JHW1224SC-TH	3/4

WS-6-TH

+ High Polish Chrome Finish with SUPERTORQUE® Box End.
++ High Polish Chrome Finish with SUPERCOMBO® Open End and SUPERTORQUE® Box End.
** Satin Chrome Finish with SUPERTORQUE® Box End and Standard Open End.
* Satin Chrome Finish with Standard Open and Box Ends.
Fed. Spec.: ANSI B107.6; SAE AS 954

USA Made in U.S.A.

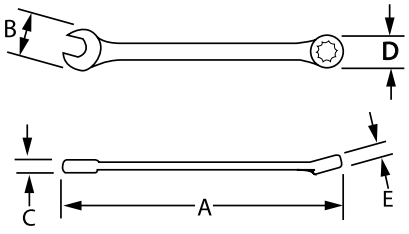
Features

- SUPERCOMBO® open end has specially designed grooves that direct wrench force away from fastener corners
- SUPERTORQUE® box opening design allows application of higher torque without rounding or deforming hex fastener points. No contact is made at the corners. Instead, wrenching forces are placed on the flat surfaces behind the points
- Meets or exceeds aerospace specification AS 954 for 12 point fasteners (as defined by AS 870) to provide accurate torque/tension relationship for precision application
- May be used on all common hex (6 point) fasteners with considerable advantage over conventional box end wrenches to increase both hand tool flexibility and economy
- Box and open end openings are identical

Wrench with Safety Coil –

Secure lanyard attachments need to withstand tough site use, including low temperature, so structural integrity is critical

- Superior Design - No welds to fail
- High Performance - Made from polished stainless steel, they have superior flexibility and shock-absorbing qualities over welded attachments
- Seven sizes available to support wrenches up to 1 ½" or 55mm
- Slides out of the way along the wrenches handle to provide full use of the handle and achieve greatest leverage



⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

TOOLS@HEIGHT™ SUPERCOMBO® COMBINATION WRENCHES

High Polish Chrome Finish, 12 Point, Metric

JHW1215MSCTH

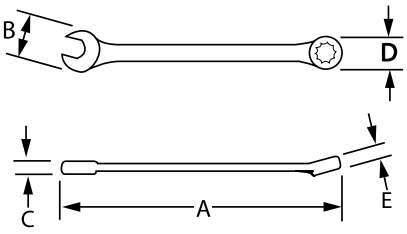
Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)	Weight (lbs)
JHW1207MSCTH ++	7	5 5/16	5/8	5/32	15/32	7/32	0.06
JHW1208MSCTH ++	8	5 25/32	23/32	5/32	1/2	7/32	0.08
JHW1209MSCTH ++	9	6 9/32	13/16	3/16	9/16	1/4	0.10
JHW1210MSCTH ++	10	6 3/4	7/8	3/16	5/8	9/32	0.13
JHW1211MSCTH ++	11	7 1/4	31/32	7/32	11/16	5/16	0.18
JHW1212MSCTH ++	12	7 11/16	1 1/32	7/32	3/4	5/16	0.20
JHW1213MSCTH ++	13	8 1/32	1 1/8	1/4	25/32	11/32	0.23
JHW1214MSCTH ++	14	8 5/8	1 7/32	1/4	27/32	3/8	0.32
JHW1215MSCTH ++	15	9 3/32	1 9/32	9/32	29/32	13/32	0.35
JHW1216MSCTH ++	16	9 1/2	1 3/8	9/32	15/16	13/32	0.41
JHW1217MSCTH ++	17	10 1/16	1 15/32	5/16	1	7/16	0.47
JHW1218MSCTH ++	18	10 17/32	1 17/32	5/16	1 1/16	15/32	0.56
JHW1219MSCTH ++	19	11 1/32	1 5/8	11/32	1 1/8	1/2	0.67
JHW1220MSCTH ++	20	11 1/2	1 23/32	3/8	1 3/16	1/2	0.77
JHW1221MSCTH ++	21	11 25/32	1 3/4	3/8	1 7/32	17/32	0.82
JHW1222MSCTH ++	22	12 1/2	1 29/32	13/32	1 5/16	9/16	1.08
JHW1223MSCTH ++	23	12 7/8	1 31/32	7/16	1 11/32	9/16	1.08
JHW1224MSCTH ++	24	13 9/32	2	7/16	1 3/8	19/32	1.20
JHW1225MSCTH ++	25	14 1/32	2 5/32	15/32	1 15/32	5/8	1.49
JHW1226MSCTH +	26	14 5/16	2 3/16	1/2	1 1/2	21/32	1.51
JHW1227MSCTH +	27	14 25/32	2 9/32	1/2	1 9/16	11/16	1.64
JHW1229MSCTH +	29	15 17/32	2 13/32	17/32	1 21/32	23/32	2.00
JHW1230MSCTH +	30	16 9/32	2 17/32	17/32	1 3/4	3/4	2.30
JHW1232MSCTH +	32	17 1/32	2 11/16	9/16	1 13/16	3/4	2.76
JHW1234MSCTH +	34	17 25/32	2 13/16	19/32	1 29/32	3/4	2.92
JHW1236MSCTH +	36	19 9/32	3 1/16	21/32	2 3/32	7/8	3.86

+ High Polish Chrome Finish with SUPERTORQUE® Box End
++ High Polish Chrome Finish with SUPERCOMBO® Open End and SUPERTORQUE® Box End
Fed. Spec.: ANSI B107.6; SAE AS 954

Made in U.S.A.

Features

- SUPERCOMBO® open end has specially designed grooves that direct wrench force away from fastener corners
- SUPERTORQUE® box opening design allows application of higher torque without rounding or deforming hex fastener points
  No contact is made at the corners. Instead, wrenching forces are placed on the flat surfaces behind the points
- Meets or exceeds aerospace specification AS 954 for 12 point fasteners (as defined by AS 870) to provide accurate torque/tension relationship for precision application
- May be used on all common hex (6 point) fasteners with considerable advantage over conventional box end wrenches to increase both hand tool flexibility and economy
- Box and open end openings are identical



Wrench with Safety Coil –
Secure lanyard attachments need to withstand tough site use, including low temperature, so structural integrity is critical

- Superior Design - No welds to fail
- High Performance - Made from polished stainless steel, they have superior flexibility and shock-absorbing qualities over welded attachments
- Seven sizes available to support wrenches up to 1 ½" or 55mm
- Slides out of the way along the wrenches handle to provide full use of the handle and achieve greatest leverage

TOOLS@HEIGHT™ REVERSIBLE RATCHETING COMBINATION WRENCHES

High Polish Chrome Finish, 12 Point, Metric

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)	Weight (lbs)
JHW1208MRCTH	8	5 1/4	23/32	3/16	23/32	9/32	0.08
JHW1209MRCTH	9	5 7/8	13/16	5/32	25/32	5/16	0.14
JHW1210MRCTH	10	6 1/4	7/8	7/32	7/8	11/32	0.15
JHW1211MRCTH	11	6 5/8	15/16	7/32	29/32	11/32	0.22
JHW1212MRCTH	12	6 13/16	1	7/32	31/32	3/8	0.00
JHW1213MRCTH	13	7	1 1/32	1/4	1	13/32	0.36
JHW1214MRCTH	14	7 3/8	1 3/16	1/4	1 3/32	13/32	0.42
JHW1215MRCTH	15	7 3/4	1 1/4	9/32	1 5/32	7/16	0.56
JHW1216MRCTH	16	8 3/16	1 11/32	9/32	1 7/32	7/16	0.77
JHW1217MRCTH	17	9	1 7/16	9/32	1 9/32	1/2	0.93
JHW1218MRCTH	18	9 3/8	1 17/32	5/16	1 3/8	15/32	1.15
JHW1219MRCTH	19	9 3/4	1 17/32	11/32	1 7/16	17/32	1.33

Features

- High-polished chrome finish cleans easily
- Ratchet lever is easily accessible for quick direction changes
- Recessed corners in ends provide extra turning power

TOOLS@HEIGHT™ REVERSIBLE RATCHETING COMBINATION WRENCHES

High Polish Chrome Finish, 12 Point, SAE

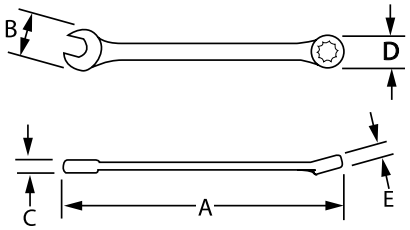
Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)	Weight (lbs)
JHW1208RC-TH	1/4	5 1/4	23/32	3/16	23/32	9/32	.06
JHW1210RC-TH	5/16	5 1/4	23/32	5/32	23/32	9/32	0.08
JHW1212RC-TH	3/8	6 1/4	7/8	3/16	7/8	5/16	0.10
JHW1214RC-TH	7/16	6 5/8	15/16	7/32	29/32	11/32	0.13
JHW1216RC-TH	1/2	7	1 1/32	1/4	1	13/32	0.16
JHW1218RC-TH	9/16	7 3/8	1 3/16	1/4	1 3/32	13/32	0.18
JHW1220RC-TH	5/8	8 7/32	1 11/32	9/32	1 7/32	7/16	0.00
JHW1222RC-TH	11/16	9	1 7/16	9/32	1 11/16	1/2	0.27
JHW1224RC-TH	3/4	9 3/4	1 17/32	11/32	1 15/32	17/32	0.00
JHW1226RC-TH	13/16	10 1/2	1 23/32	3/8	1 9/16	17/32	0.36
JHW1228RC-TH	7/8	11 13/32	1 7/8	11/32	1 21/32	19/32	0.44
JHW1230RC-TH	15/16	12	1 31/32	15/32	1 27/32	5/8	0.50
JHW1232RC-TH	1	13	2 3/32	15/32	1 7/8	5/8	0.56

Features

- High-polished chrome finish cleans easily
- Ratchet lever is easily accessible for quick direction changes
- Recessed corners in ends provide extra turning power

Wrench with Safety Coil –
Secure lanyard attachments need to withstand tough site use, including low temperature, so structural integrity is critical

- Superior Design - No welds to fail
- High Performance - Made from polished stainless steel, they have superior flexibility and shock-absorbing qualities over welded attachments
- Seven sizes available to support wrenches up to 1 ½" or 55mm
- Slides out of the way along the wrenches handle to provide full use of the handle and achieve greatest leverage



⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

JHW3732-TH

TOOLS@HEIGHT™ 15°- 60° DOUBLE OPEN END ANGLE-HEAD WRENCHES

Chrome Satin Finish, SAE

Product Code	Size (Inches)	A Head Diameter	B Head Thickness	C Overall Length (Inches)	Weight (lbs)
JHW3716-TH	1/2	1	7/32	5 1/2	0.10
JHW3718-TH	9/16	1 1/8	1/4	6	0.14
JHW3720-TH	5/8	1 3/16	9/32	6 1/4	0.14
JHW3722-TH	11/16	1 5/16	9/32	7	0.21
JHW3724-TH	3/4	1 7/16	9/32	7 1/4	0.28
JHW3726-TH	13/16	1 19/32	9/32	7 1/2	0.27
JHW3728-TH	7/8	1 21/32	9/32	8 1/4	0.35
JHW3732-TH	1	1 15/16	5/16	9 3/4	0.41
JHW3734-TH	1 1/16	2 1/16	5/16	10	0.50
JHW3736-TH	1 1/8	2 1/4	5/16	11	0.61
JHW3740-TH	1 1/4	2 3/8	11/32	11 1/2	0.70
JHW3744-TH	1 3/8	2 11/16	13/32	12 1/2	0.85
JHW3746-TH	1 7/16	2 11/16	13/32	12 1/2	1.25
JHW3748-TH	1 1/2	2 11/16	13/32	12 1/2	1.19

Fed. Spec. ANSI B107.39 Type 2 Class 3

Made in U.S.A.

Features

- Wrench heads are offset at 15° and 60° to the handle
- Both ends are the same size to permit the wrench to be used in four different positions
- 45° chamfer on wrench ends allow easy placement of wrench on the fastener
- Continuous arc design minimizes spreading and is stronger than "V" design
- Thin head is perfect for tight clearances
- Satin chrome finish provides good grip and cleans easily

JHW77731B-TH

TOOLS@HEIGHT™ DOUBLE HEAD 10° OFFSET BOX END WRENCHES

Chrome Satin Finish, 12 Point, SAE

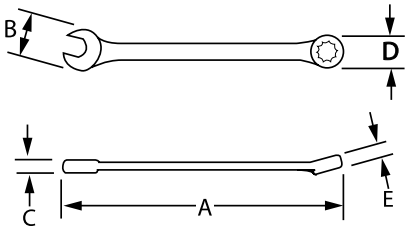
Product Code	Size (Inches)	A Overall Length (Inches)	B Box End Diameter (Inches)	C Box End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)	Weight (lbs)
JHW7723-TH	3/8 x 7/16	7 5/8	19/32	5/16	21/32	11/32	0.11
JHW7725B-TH	1/2 x 9/16	8 11/16	3/4	3/8	27/32	3/8	0.30
JHW7727A-TH	5/8 x 11/16	10 5/32	29/32	7/16	1	15/32	0.47
JHW7029B-TH	11/16 x 3/4	10 15/16	1	15/32	1 3/32	1/2	0.53
JHW7731A-TH	3/4 x 7/8	12 1/32	1 3/32	1/2	1 1/4	9/16	0.73
JHW7731B-TH	13/16 x 7/8	12 13/32	1 3/16	17/32	1 1/4	9/16	0.80
JHW7033C-TH	15/16 x 1	14 1/8	1 11/32	19/32	1 7/16	5/8	0.94
JHW7038-TH	1 1/8 x 1 3/16	16 3/32	1 19/32	11/16	1 11/16	11/16	1.66
JHW7039B-TH	1 1/4 x 1 5/16	17 5/8	1 25/32	23/32	1 27/32	3/4	0.00

Fed. Spec. ANSI B107.6

Made in U.S.A.

Features

- SUPERTORQUE® box opening design allows application of higher torque without rounding or deforming hex fastener points. No contact is made at the corners. Instead, wrenching forces are placed on the flat surfaces behind the points
- 10° offset box end allows clearance in tight areas
- Sizes are clearly marked on handle ends



Wrench with Safety Coil –
Secure lanyard attachments need to withstand tough site use, including low temperature, so structural integrity is critical

- Superior Design - No welds to fail
- High Performance - Made from polished stainless steel, they have superior flexibility and shock-absorbing qualities over welded attachments
- Seven sizes available to support wrenches up to 1 ½" or 55mm
- Slides out of the way along the wrenches handle to provide full use of the handle and achieve greatest leverage

TOOLS@HEIGHT™ DOUBLE HEAD 10° OFFSET BOX END WRENCHES

Chrome Satin Finish, 12 Point, Metric

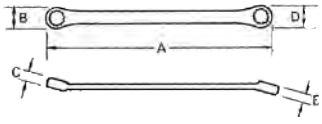
Product Code	Size (MM)	A Overall Length (Inches)	B Box End Diameter (Inches)	C Box End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)	Weight (lbs)
JHWBWM0810TH	8 x 10	7 5/16	1/2	9/32	19/32	5/16	0.15

Fed. Spec. ANSI B107.9M

Made in U.S.A.

Features

- SUPERTORQUE® box opening design allows application of higher torque without rounding or deforming hex fastener points. No contact is made at the corners. Instead, wrenching forces are placed on the flat surfaces behind the points
- 10° offset box end allows clearance in tight areas
- Sizes are clearly marked on handle ends



JHWBWM0810TH

TOOLS@HEIGHT™ DOUBLE HEAD FLARE NUT WRENCHES

Chrome Satin Finish, 6 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Dia (Inches)	C Open End Thickness (Inches)	D Open End Dia (Inches)	E Open End Thickness (Inches)	Weight (lbs)
JHWXFN0810TH	1/4 x 5/16	4 27/32	18/32	1/4	5/8	8/32	0.12
JHWXFN1214TH	3/8 x 7/16	5 13/16	25/32	5/16	27/32	11/32	0.14
JHWXFN1618TH	1/2 x 9/16	6 13/16	15/16	3/8	1	13/32	0.23
JHWXFN2022TH	5/8 x 11/16	7 3/4	1 3/32	7/16	3/16	15/32	0.38
JHWXFN2432TH	3/4 x 1	9 1/2	1 1/4	1/2	19/32	5/8	0.70
JHWXFN2836TH	7/8 x 1 1/8	10.5	1 7/16	9/16	1 3/4	11/16	0.99

Fed. Spec.: ANSI B107.6

JHWWS-14-TH 5 Piece Double Head Flare Nut Wrench Set, 6 Point, SAE, in Pouch – R-4 2.71 lbs

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWXFN1214TH	3/8 x 7/16	JHWXFN2022TH	5/8 x 11/16	JHWXFN2836TH	7/8 x 1 1/8
JHWXFN1618TH	1/2 x 9/16	JHWXFN2432TH	3/4 x 1		

Made in U.S.A.

Features

- Will not mar fittings on pipes and tubing.
- Satin chrome textured finish provides great feel and extra gripping power
- Recessed corners in ends provide extra turning power

JHWXFN2836TH

JHWWS-14-TH

Wrench with Safety Coil –
Secure lanyard attachments need to withstand tough site use, including low temperature, so structural integrity is critical

- Superior Design - No welds to fail
- High Performance - Made from polished stainless steel, they have superior flexibility and shock-absorbing qualities over welded attachments
- Seven sizes available to support wrenches up to 1 ½" or 55mm
- Slides out of the way along the wrenches handle to provide full use of the handle and achieve greatest leverage

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

TOOLS@HEIGHT™ DOUBLE HEAD FLARE NUT WRENCHES

Chrome Satin Finish, 6 Point, Metric

Product Code	Size (MM)	A Overall Length (Inches)	B Open End Dia (Inches)	C Open End Thickness (Inches)	D Open End Dia (Inches)	E Open End Thickness (Inches)	Weight (lbs)
JHW10650-TH	9 x 11	5 11/16	13/16	11/32	15/16	5/16	0.11
JHW10652-TH	10 x 12	6 1/8	7/8	3/8	29/32	5/16	0.15
JHW10654-TH	13 x 14	6 7/8	1	3/8	1 3/32	3/8	0.20
JHW10656-TH	15 x 17	7 7/8	1 1/16	7/16	1 7/32	1/2	0.28
JHW10658-TH	19 x 21	8 7/8	1 9/32	1/2	1 13/32	17/32	0.43

Fed. Spec.: ANSI B107.9M

JHW11692-TH 5 Piece Double Head Flare Nut Wrench Set, 6 Point, Metric, in Pouch – 50001 1.43 lbs.

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW10650-TH	9 x 11	JHW10654-TH	13 x 14	JHW10658-TH	19 x 21
JHW10652-TH	10 x 12	JHW10656-TH	15 x 17		

Features

- Will not damage fittings on pipes and tubing
- Satin chrome textured finish provides great feel and extra gripping power
- Recessed corners in ends provide extra turning power

TOOLS@HEIGHT™ DOUBLE HEAD RATCHETING BOX WRENCHES

High Polish Chrome Finish, 6 & 12 Point, SAE

Product Code	Number of Points	Size (Inches)	A Overall Length (Inches)	B Box End Diameter (Inches)	C Box End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)	Weight (lbs)
JHWRB-810-TH	6	1/4 x 5/16	4 1/4	19/32	3/8	11/16	3/8	.12
JHWRB1214TH	6	3/8 x 7/16	5 1/2	25/32	3/8	7/8	3/8	.18
JHWRB1618TH	6	1/2 x 9/16	6 3/4	1	1/2	1 5/32	1/2	.33
JHWRB2022TH	12	5/8 x 11/16	8 1/8	1 5/16	1/2	1 7/16	1/2	.44
JHWRB2428TH	12	3/4 x 7/8	9 1/4	1 13/32	1/2	1 9/16	1/2	.48

Made in U.S.A.

Features

- Allows fast removal of fasteners with a ratcheting action at each end
- Ideal for long "bolt-through" applications
- Flat handle allows access to tight clearance areas

TOOLS@HEIGHT™ 30° SERVICE WRENCHES, SAE

Satin Chrome Finish, SAE

Product Code	Size (Inches)	Overall Length (Inches)	Head Diameter	Head Thickness	Weight (lbs.)
3524-TH	3/4	6 1/4	1 11/16	1/4	.31
3526-TH	13/16	6 1/4	1 11/16	1/4	.28
3528-TH	7/8	6 1/4	1 11/16	1/4	.28
3530-TH	15/16	6 7/8	1 7/8	1/4	.36
3532-TH	1	6 7/8	1 7/8	1/4	.37
3534-TH	1 1/16	6 7/8	1 7/8	1/4	.35
3536-TH	1 1/8	7	2 1/16	1/4	.37
3538-TH	1 3/16	7	2 1/16	1/4	.37
3540-TH	1 1/4	7	2 1/16	1/4	.36
3542-TH	1 5/16	7 5/8	2 1/2	9/32	.51
3544-TH	1 3/8	7 5/8	2 1/2	9/32	.49
3546-TH	1 7/16	7 5/8	2 1/2	9/32	.45
3548-TH	1 1/2	7 5/8	2 1/2	9/32	.48

Made in U.S.A.

Features

- Ultra thin pattern for use on jam nuts and access to confined areas
- 30° offset head
- Satin chrome finish

BAHCO® TOOLS@HEIGHT™ ADJUSTABLE WRENCH

Industrial Grade Steel Handles

Product Code	Length (Inches)	Maximum Jaw Opening (Inches)	Head Thickness (Inches)	Jaw Tip Thickness (Inches)	Weight (lbs.)
8070RCUS-TH	6	3/4	7/16	3/16	.30
8071RCUS-TH	8	1 1/16	1/2	1/4	.96
8072RCUS-TH	10	1 1/8	5/8	5/16	.96
8073RCUS-TH	12	1 5/16	11/16	7/16	1.47
8074RCUS-TH	15	1 11/16	13/16	9/16	2.44
8075RCUS-TH	18	2 1/16	7/8	11/16	3.85

Features

- Slim head with tapered jaws combine easy accessibility with extra turning strength
- Measurement scale on head conveniently shows fastener size
- Precision hardened and anti-corrosion treated.

TOOLS@HEIGHT™ ADJUSTABLE CONSTRUCTION WRENCH

Heavy-Duty With Polished Head and Measurement Scales

Product Code	Length (Inches)	Maximum Jaw Opening (Inches)	Head Thickness (Inches)	Weight (lbs)
JHW13625-TH	15	1 1/2	23/32	2.24

Features

- Tapered spud handle locates and aligns bolts and rivets
- Hole in handle permits tethering wrench for safety
- Measurement scale on head conveniently shows fastener size
- Economical black phosphate finish resists rust

TOOLS@HEIGHT™ SINGLE HEAD OPEN END OFFSET STRUCTURAL WRENCHES

Industrial Black Finish, SAE

		A	B	C	D	
Product Code	Size (Inches)	Overall Length (Inches)	Open End Width (Inches)	Open End Thickness (Inches)	Handle Offset (Inches)	Weight (lbs)
JHW1905-TH	7/8	14 5/16	2	9/16	1	1.42
JHW1906-TH	15/16	14 3/16	1 31/32	19/32	1	1.51
JHW1907-TH	1 1/16	16 13/16	2 5/32	5/8	1 1/8	1.85
JHW1908-TH	1 1/4	17 11/16	2 23/32	11/16	1 1/4	2.85
JHW1909-TH	1 7/16	19 3/4	3 5/32	25/32	1 1/4	3.68
JHW1910-TH	1 5/8	21 1/16	3 7/32	7/8	1 1/2	4.26
JHW1911-TH	1 13/16	23	3 3/4	1 3/4	1 5/8	6.49
JHW1912-TH	2	23 3/4	4 7/32	31/32	1 5/8	7.02

Features

- Long offset handle is designed for clearance of obstructions while providing greater leverage
- Tapered spud handle locates and aligns bolt and rivet holes

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

JHWO-472-TH

JHWO-474-TH

TOOLS@HEIGHT™ ADJUSTABLE PIN SPANNER WRENCHES

Industrial Black Finish, SAE

Product Code	Span Diameter (Inches)	Pin Diameter (Inches)	Pin Length (Inches)	Overall Length (Inches)	Weight (lbs.)
JHWO-471-TH	3/4 to 2	1/8	1/8	5 3/8	.27
JHWO-472-TH	1 1/4 to 3	3/16	3/16	6 7/8	.48
JHWO-474-TH	2 to 4 3/4	1/4	1/4	9 1/2	.93
JHWO-474A-TH	4 1/2 to 6 1/4	3/8	1/4	9 7/8	1.10

Features

- Ideal for adjusting collars, lock nut rings, and bearings
- Specifically engineered to hold up under the most rigorous industrial use

Made in U.S.A.

JHW471-TH

TOOLS@HEIGHT™ ADJUSTABLE HOOK SPANNER WRENCHES

Industrial Black Finish, SAE

Product Code	Span Diameter (Inches)	Hook Depth (Inches)	Hook Thickness (Inches)	Overall Length (Inches)	Weight (lbs.)
JHW471-TH	3/4 to 2	1/8	11/32	5 3/8	.26
JHW472-TH	1 1/4 to 3	5/32	13/32	7 1/4	.49
JHW474-TH	2 to 4 3/4	3/16	15/32	11 1/2	.97
JHW474A-TH	4 1/2 to 6 1/4	1/4	15/32	17 1/2	1.05

Features

- Ideal for adjusting collars, lock nut rings, and bearings
- Specifically engineered to hold up under the most rigorous industrial use

Made in U.S.A.

JHW483-TH

JHW484-TH

TOOLS@HEIGHT™ ADJUSTABLE FACE SPANNER WRENCHES

Industrial Black Finish, SAE

Product Code	Span Diameter (Inches)	Pin Diameter (Inches)	Pin Length (Inches)	Overall Length (Inches)	Weight (lbs.)
JHW482-TH	2	3/16	1/4	6 1/4	.31
JHW483-TH	3	1/4	1/4	8 1/8	.63
JHW484-TH	4	5/16	1/2	10 3/8	1.01

Features

- Ideal for adjusting collars, lock nut rings, and bearings
- Specifically engineered to hold up under the most rigorous industrial use

Made in U.S.A.

Any tool that weighs more than 5 pounds should be attached to an anchor point such as a work platform or utility bucket rather than the operator.

12 F M

TOOLS@HEIGHT™ OFFSET PATTERN BOX END STRIKING WRENCHES

Industrial Black Finish, 12 Point, SAE / Metric

Product Code	Size (Inches)	Size (MM)	A Overall Length (Inches)	B Box End Diameter (Inches)	C Box End Thickness (Inches)	Weight (lbs)
JHW8807W-TH	1 1/16	27	9 31/32	1 21/32	23/32	2.36
JHW8807AW-TH	1 1/8	-	10 31/32	1 15/16	3/4	2.71
JHW8808BW-TH	1 3/16	30	10 31/32	1 15/16	3/4	2.85
JHW8808W-TH	1 1/4	32	10 31/32	1 15/16	3/4	2.84
JHW8808AW-TH	1 5/16	33	10 31/32	1 15/16	3/4	2.7
JHW8808CW-TH	1 3/8	35	11 1/2	2 5/32	29/32	3.43
JHW8809W-TH	1 7/16	-	11 1/2	2 5/32	29/32	3.21
JHW8809BW-TH	-	36	11 1/2	2 5/32	29/32	3.46
JHW8809AW-TH	1 1/2	38	12	2 7/16	1	4.29
JHW8810W-TH	1 5/8	41	12	2 7/16	1	4.10
JHW8810AW-TH	1 11/16	43	12 9/16	2 11/16	1 1/8	5.22
JHW8811BW-TH	1 3/4	44	12 9/16	2 11/16	1 1/8	5.14
JHW8811W-TH	1 13/16	46	12 9/16	2 11/16	1 1/8	5.11
JHW8811AW-TH	1 7/8	-	13	2 7/8	1 1/4	5.18
JHW8812AW-TH	1 15/16	49	13	2 7/8	1 1/4	5.26
JHW8812BW-TH	-	50	13	2 7/8	1 1/4	5.40
JHW8812W-TH	2	51	13	2 7/8	1 1/4	5.53
JHW8813BW-TH	2 1/8	54	13 9/16	3 1/4	1 13/32	7.4
JHW8813W-TH	2 3/16	55	13 9/16	3 1/4	1 13/32	7.05
JHW8813AW-TH	2 1/4	57	13 9/16	3 1/4	1 13/32	7.41
JHW8814AW-TH	2 5/16	59	13 9/16	3 1/4	1 13/32	7.35
JHW8814W-TH	2 3/8	60	14 1/8	3 11/16	1 1/2	8.20
JHW8815BW-TH	2 1/2	64	14 1/8	3 11/16	1 1/2	8.07
JHW8815W-TH	2 9/16	65	14 1/8	3 11/16	1 1/2	7.82
JHW8815AW-TH	2 5/8	67	15	3 15/16	1 5/8	9.53
JHW8816W-TH	2 3/4	70	15	3 15/16	1 5/8	9.40
JHW8816CW-TH	2 7/8	73	16	4 7/16	1 3/4	12.50
JHW8816BW-TH	2 15/16	75	16	4 7/16	1 3/4	12.12
JHW8817AW-TH	3	76	16	4 7/16	1 3/4	12.34
JHW8817W-TH	3 1/8	80	16	4 7/16	1 3/4	11.62
JHW8818AW-TH	3 3/8	85	18 9/32	6	2	28.59
JHW8818W-TH	3 1/2	89	18 9/32	6	2	28.54
JHW8819BW-TH	3 3/4	95	18 9/32	6	2	27.86
JHW8819W-TH	3 7/8	98	18 9/32	6	2	27.34
JHW8819CW-TH	4 1/8	105	18 9/32	6	2	25.72
JHW8819AW-TH	4 1/4	108	18 9/32	6	2	26.82

JHW8807W-TH

Made in U.S.A.

Features

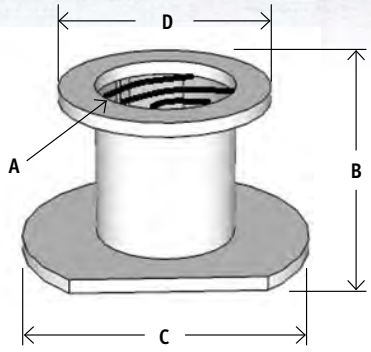
- Striking face wrenches are designed to be struck by a hammer on the anvil area in order to loosen frozen fasteners or to set and tighten fasteners
- Anvils are proportional to opening sizes. Special heat treating provides maximum durability for long life
- Offset handle is close to head to provide clearance in confined areas
- Williams' expanded line of offset striking face wrenches, up to 4 1/4", provides the most extensive line on the market
- Specifically engineered to hold up under the most rigorous industrial use

JHW88SET-TH 36 Piece Set Offset Pattern Box End Striking Wrenches

Contents Include: One of each Offset Pattern Box End Striking Wrench

- Weight - 355 lbs.

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.



TOOLS@HEIGHT™ SLUGGING WRENCH RETAINERS

Product Code	Stud Size	Length	C	D
SWR-24	3/8	1 29/32	1 15/16	1 3/4
SWR-28	7/8	2	2 3/16	1 29/32
SWR-32	1	2 1/8	2 1/2	2 1/32
SWR-36	1 1/8	2 1/4	2 1/2	2 5/32
SWR-40	1 1/4	2 3/8	2 7/8	2 9/32
SWR-44	1 3/8	2 15/32	3 1/8	2 3/8
SWR-48	1 1/2	2 5/8	3 1/8	2 1/2
SWR-52	1 5/8	2 3/4	3 5/8	2 21/32
SWR-56	1 3/4	2 7/8	3 7/8	2 3/4
SWR-60	1 7/8	3	4 1/2	2 7/8

Features

Made in U.S.A.

- SWR-SET includes one of each retainer in a plastic box.
- Retainers feature attachment point to prevent drop during use.
- Slugging Wrench Retainers thread onto the end of the stud over the slugging wrench to ensure the wrench stays affixed to the fastener
- A spring loaded plate allows for easy adjustment of the wrench without having to unscrew the retainer.
- Increased productivity and safer operation by eliminating the need for a second worker to hold and slugging wrench in place
- Available in 10 sizes, marked with stud sizes (not hex sizes)
- Configured to work with offset and straight handle slugging wrenches

SWR-24

SWR-52

SWR-SET

TOOLS@HEIGHT™ FOLDING HEX KEY SETS

SAE and Metric

Product Code	JHWWS-45-TH		JHWWS-46-TH		JHWMWS-47-TH	
Number of Pieces	8		9		7	
	Hex Size (Inches)	Key Length (Inches)	Hex Size (Inches)	Key Length (Inches)	Includes Hex Size (MM)	Key Length (Inches)
	.050	1 1/4	5/64	1 1/2	1.5	1 3/8
	1/16	1 3/8	3/32	1 9/16	2	1 1/2
	5/64	1 7/16	7/64	1 11/16	2.5	1 5/8
	3/32	1 9/16	1/8	1 15/16	3	1 3/4
	7/64	1 5/8	9/64	2	4	2
	1/8	1 11/16	5/32	2 1/4	5	2 1/4
	9/64	1 13/16	3/16	2 1/2	6	2 1/2
	5/32	2	7/32	2 5/8		
			1/4	2 7/8		

Features

- Steel case is chrome plated to resist corrosion
- Keys are black oxide finish
- Convenient item for pocket or tool box
- Modified to prevent disassembly during use

Made in U.S.A.

TOOLS@HEIGHT™ METAL HANDLE CLICK TYPE TORQUE WRENCHES - DUAL SCALE

Metal Handle Dual Scale. The metal handle series offers the user a rugged, industrial strength torque wrench able to withstand the rigors of professional use. Handles are lightly knurled for a tough, non-slip grip. There are 21 models of metal handle micrometer adjustable torque wrenches available.

Product Code	Drive Size	English Range	Incr.	Num Range	Incr.	A in.	B in.	C in.	D in.	Wt. Lbs.
2503MFRMH-TH	1/2"	30-250 ft. lb.	1	47-332 Nm	1.4	24.40	1.70	1.40	1.40	4.73
6004MFRMH-TH	3/4"	100-600 ft. lb.	5	169-779 Nm	6.8	42.00	2.50	2.00	1.15	7.85

Features

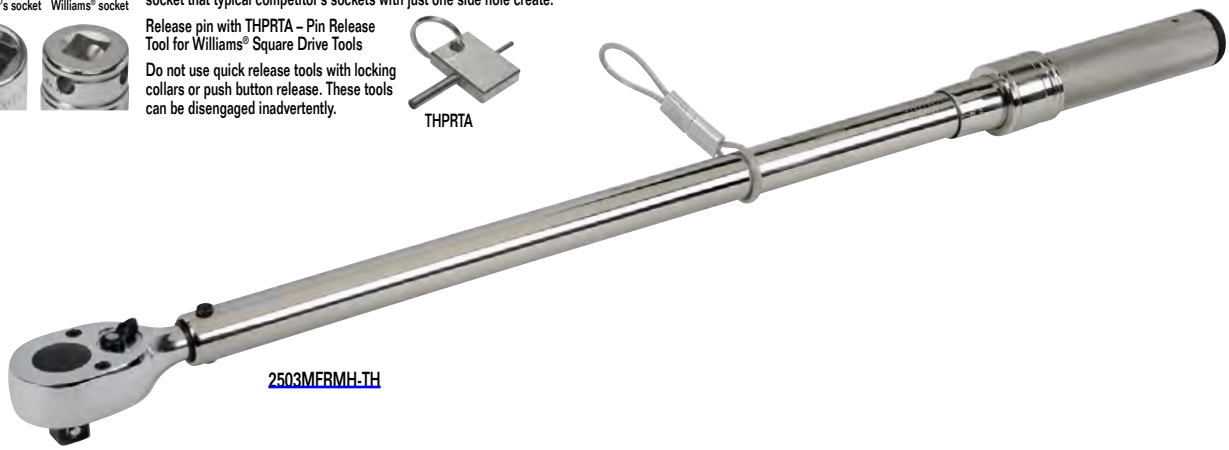
- Dual scale, calibrated dual direction
- Positive lock with spring loaded pull down lock ring
- Fast, accurate and easy to set
- Easy-to-read laser marked scales
- Accuracy: ± 3% CW ± 4% CCW of indicated value, CW, from 20% to 100% of full scale
- Individually serialized with matching certificate of calibration traceable to N.I.S.T.

Williams® Tools@Height™ sockets, extensions, and adaptors feature a locking hole on all four sides, not just one. Williams® Tools@Height™ ratchets and drive tools feature a locking pin which mates with the side lock hole for positive retention. This reduces the risk of misaligning the socket that typical competitor's sockets with just one side hole create.

Release pin with THPRTA – Pin Release Tool for Williams® Square Drive Tools

Do not use quick release tools with locking collars or push button release. These tools can be disengaged inadvertently.

THPRTA


2503MFRMH-TH

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

JHWM52EHATH

JHWMB52EHATH

TOOLS@HEIGHT™ 1/4" DRIVE ENCLOSED HEAD RATCHETS

Sealed Narrow Head Design, Chrome and Black Industrial Finish

Product Code	Description	Length (Inches)	Number of Teeth	Weight (lbs)
JHWM52EHATH	Chrome Finish Enclosed Head Ratchet	5 1/4	36	0.00
JHWMB52EHATH	Black Industrial Finish Enclosed Head Ratchet	5 1/4	36	0.21

Fed. Spec: ANSI B107.10M

Made in U.S.A.

Features

- Enclosed head is sealed to prevent dust, dirt, and liquids from entering head, preserving internal lubrication
- Forged one-piece ratchet provide strength and safety for industrial applications
- 36 tooth gear with 10 degree of engagement allows engagement in tight working areas
- Nickel/Chrome plating provides increase protection from rust and corrosion
- Chrome finish models feature mirror-like exterior that can be easily cleaned after each use
- Single Pawl ratchet design:
  1) Designed for tighter tolerances between pawl and gear which reduces metal fatigue and slippage under load
  2) Does not require as many working parts, reducing possible breakage and parts to repair
- Easy access reverse lever allows user to change working direction quickly and easily with only one hand

JHWM-115-TH

TOOLS@HEIGHT™ 1/4" DRIVE EXTENSIONS

High-Polished Chrome Finish

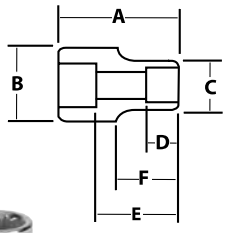
Product Code	Description	Length (Inches)	Weight (lbs.)
JHWM-102-TH	Extension	2	.06
JHWM-104-TH	Extension	4	.11
JHWM-115-TH	Extension	6	.15
JHWM-140A-TH	U-Joint	1 7/16	.11

Fed. Spec: ANSI B107.10M

Made in U.S.A.

Features

- Chrome plating provides increased protection from rust and corrosion
- Flexible extension is designed for low torque applications in limited access areas



JHW30210-TH JHW30206-TH

TOOLS@HEIGHT™ 1/4" DRIVE SHALLOW SOCKETS, 12 POINT, SAE

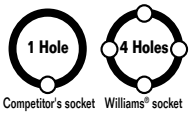
High-Polished Chrome Finish

		A	B	C	D	E	F		
Product Code	Size (Inches)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)	Weight (lbs)
JHW30206-TH	3/16	1	15/32	5/16	9/32	19/32	3/16	1/2	0.03
JHW30207-TH	7/32	1	15/32	11/32	5/16	19/32	7/32	1/2	0.03
JHW30208-TH	1/4	1	15/32	3/8	5/16	19/32	7/32	1/2	0.03
JHW30209-TH	9/32	1	15/32	7/16	5/16	19/32	1/4	1/2	0.03
JHW30210-TH	5/16	1	15/32	15/32	5/16	19/32	1/4	-	0.03
JHW30211-TH	11/32	1	1/2	1/2	5/16	19/32	11/32	-	0.04
JHW30212-TH	3/8	1	9/16	9/16	11/32	19/32	3/8	-	0.04
JHW30214-TH	7/16	1	5/8	5/8	7/16	19/32	7/16	-	0.05
JHW30216-TH	1/2	1	11/16	11/16	7/16	19/32	1/2	-	0.06
JHW30218-TH	9/16	1	3/4	3/4	7/16	19/32	17/32	-	0.07

Fed. Spec: ANSI B107.1

Features

- SUPERTORQUE® lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on both 6 and 12 point fasteners



Competitor's socket Williams® socket

Williams® Tools@Height™ sockets, extensions, and adaptors feature a locking hole on all four sides, not just one. Williams® Tools@Height™ ratchets and drive tools feature a locking pin which mates with the side lock hole for positive retention. This reduces the risk of misaligning the socket that typical competitor's sockets with just one side hole create.

Release pin with THPRTA – Pin Release Tool for Williams® Square Drive Tools

Do not use quick release tools with locking collars or push button release. These tools can be disengaged inadvertently.

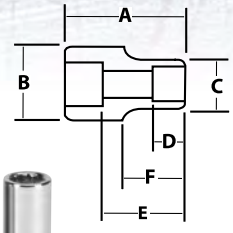
THPRTA

TOOLS@HEIGHT™ 1/4" DRIVE DEEP SOCKETS, 12 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	F Bolt Clearance Diameter (Inches)	F Nose Length (Inches)	Weight (lbs)
JHW30406-TH	3/16	1 31/32	15/32	5/16	5/16	1 5/16	1/8	1 1/32	0.04
JHW30407-TH	7/32	1 31/32	15/32	11/32	3/8	1 5/16	3/16	15/16	0.05
JHW30408-TH	1/4	1 31/32	15/32	7/16	13/16	1 11/32	7/32	1 1/32	0.05
JHW30409-TH	9/32	1 31/32	15/32	7/16	25/32	1 11/32	1/4	31/32	0.05
JHW30410-TH	5/16	1 31/32	15/32	15/32	13/16	1 5/16	9/32	-	0.05
JHW30411-TH	11/32	1 31/32	1/2	1/2	29/32	1 5/16	9/32	-	0.07
JHW30412-TH	3/8	1 31/32	9/16	9/16	7/8	1 11/32	5/16	-	0.09
JHW30414-TH	7/16	1 31/32	5/8	5/8	7/8	1 1/2	13/32	-	0.10
JHW30416-TH	1/2	1 31/32	11/16	11/16	27/32	1 17/32	7/16	-	0.11
JHW30418-TH	9/16	1 31/32	3/4	3/4	29/32	1 9/16	17/32	-	0.14

Fed. Spec: ANSI B107.1



JHW30410-TH JHW30406-TH

Features

- SUPERTORQUE® lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 12 point fasteners

TOOLS@HEIGHT™ 1/4" DRIVE STANDARD LENGTH HEX BIT SOCKETS, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Bit Length (Inches)	Weight (lbs)
JHW35000-TH	1/8	13/16	15/32	1 13/32	5/8	0.04
JHW35001-TH	5/32	13/16	15/32	1 13/32	5/8	0.04
JHW35002-TH	3/16	13/16	15/32	1 13/32	5/8	0.04
JHW35003-TH	7/32	13/16	15/32	1 13/32	5/8	0.04
JHW35004-TH	1/4	13/16	15/32	1 13/32	5/8	0.04
JHW35005-TH	5/16	13/16	15/32	1 13/32	5/8	0.04

JHW30902-TH

JHW30902-TH 6 Piece Hex Bit Socket Set on Clip Rail .51 lbs

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW35000-TH	1/8	JHW35002-TH	3/16	JHW35004-TH	1/4
JHW35001-TH	5/32	JHW35003-TH	7/32	JHW35005-TH	5/16

Features

- High-polished chrome finish socket cleans easily

TOOLS@HEIGHT™ 1/4" DRIVE STANDARD LENGTH HEX BIT SOCKETS, METRIC

High-Polished Chrome Finish

Product Code	Size (MM)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Bit Length (Inches)	Weight (lbs)
JHW35070-TH	3	13/16	15/32	1 13/32	5/8	0.04
JHW35071-TH	4	13/16	15/32	1 13/32	5/8	0.04
JHW35072-TH	5	13/16	15/32	1 13/32	5/8	0.04
JHW35073-TH	6	13/16	15/32	1 13/32	5/8	0.04
JHW35074-TH	7	13/16	15/32	1 13/32	5/8	0.04
JHW35075-TH	8	13/16	15/32	1 13/32	5/8	0.04

JHW35072-TH

30904-TH 6 Piece Hex Bit Socket Set on Clip Rail .51 lbs

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW35070-TH	3	JHW35072-TH	5	JHW35074-TH	7
JHW35071-TH	4	JHW35073-TH	6	JHW35075-TH	8

Features

- High-polished chrome finish socket cleans easily

Competitor's socket Williams® socket

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Release pin with THPRTA – Pin Release Tool for Williams® Square Drive Tools

Do not use quick release tools with locking collars or push button release. These tools can be disengaged inadvertently.

THPRTA

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

JHWB52EHATH

JHWBB52EHATH

JHWB52EHLATH

TOOLS@HEIGHT™ 3/8" DRIVE ENCLOSED HEAD RATCHETS

Williams® Sealed Narrow Head Design, Chrome and Black Industrial Finish

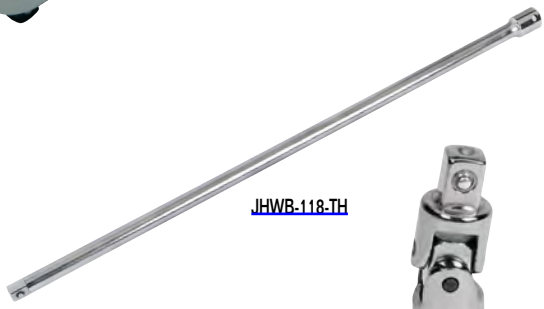
Product Code	Description	Length (Inches)	Number of Teeth	Weight (lbs)
JHWBB52EHATH	Black Industrial Finish Enclosed Head Ratchet	8	36	.76
JHWB52EHATH	Chrome Finish Enclosed Head Ratchet	8	36	.76
JHWB52EHLATH	Chrome Finish Enclosed Head Ratchet, Long	10 1/4	36	.87

Fed. Spec: ANSI B107.10M

Made in U.S.A.

Features

- Enclosed head is sealed to prevent dust, dirt, and liquids from entering head preserving internal lubrication
- Forged one-piece ratchet provide strength and safety for industrial applications
- Smooth comfort-grip handle permits all-day use without gloves
- 36 tooth gear with 10 degree of engagement allows engagement in tight working areas
- Nickel/Chrome plating provides increase protection from rust and corrosion
- Chrome finish models feature mirror-like exterior that can be easily cleaned after each use
- Single Pawl ratchet design:
  1) Designed for tighter tolerances between pawl and gear which reduces metal fatigue and slippage under load
  2) Does not require as many working parts, reducing possible breakage and parts to repair
- Easy access reverse lever allows user to change working direction quickly and easily with only one hand



JHWB-118-TH

JHWB-140A-TH

TOOLS@HEIGHT™ 3/8" DRIVE EXTENSIONS AND ACCESSORIES

High-Polished Chrome Finish

Product Code	Description	Length (Inches)	Weight (lbs)
JHWB-108-TH	Extension	3	.19
JHWB-110-TH	Extension	6	.34
JHWB-115-TH	Extension	11	.61
JHWB-118-TH	Extension	18	.93
JHWB-140A-TH	Universal Joint	2	.15
JHWB-70-TH	Ratchet Spinner Disk	1 1/4	.14

Fed. Spec: ANSI B107.10M

Made in U.S.A.

Features

- Chrome plating provides increased protection from rust and corrosion
- Flexible extension is designed for low torque applications in limited access areas
- Spinner disk is ideal for fast turn down of fasteners

JHWB-40A-TH

TOOLS@HEIGHT™ 3/8" DRIVE HANDLE

Knurled Handle, High-Polished Chrome Finish

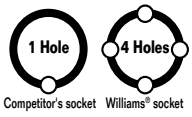
Product Code	Description	Length (Inches)	Weight (lbs)
JHWB-40A-TH	Flex Handle	8 9/16	.67

Fed. Spec: ANSI B107.10M

Made in U.S.A.

Features

- Chrome plating provides increased protection from rust and corrosion
- Drive handles provide extra leverage with greater strength than ratchets



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Release pin with THPRTA – Pin Release Tool for Williams® Square Drive Tools

Do not use quick release tools with locking collars or push button release. These tools can be disengaged inadvertently.

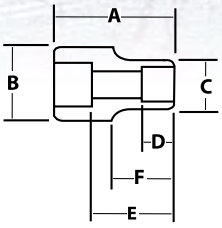
THPRTA

TOOLS@HEIGHT™ 3/8" DRIVE SHALLOW SOCKETS, 12 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	F Bolt Clearance Diameter (Inches)	F Nose Length (Inches)	Weight (lbs.)
JHW31208-TH	1/4	1	11/16	7/16	11/32	9/16	7/32	17/32	0.04
JHW31210-TH	5/16	1	11/16	15/32	3/8	17/32	1/4	17/32	0.05
JHW31212-TH	3/8	1	11/16	9/16	3/8	1/2	9/32	17/32	0.05
JHW31214-TH	7/16	1	11/16	5/8	11/32	17/32	13/32	17/32	0.05
JHW31216-TH	1/2	1	3/4	3/4	13/32	19/32	7/16	-	0.07
JHW31218-TH	9/16	1 1/16	25/32	25/32	17/32	5/8	17/32	-	0.08
JHW31220-TH	5/8	1 1/16	7/8	7/8	19/32	11/16	19/32	-	0.09
JHW31222-TH	11/16	1 1/16	15/16	15/16	1/2	11/16	21/32	-	0.11
JHW31224-TH	3/4	1 1/8	1	1	9/16	23/32	23/32	-	0.15
JHW31226-TH	13/16	1 1/8	1 1/8	1 1/8	9/16	23/32	25/32	-	0.17
JHW31228-TH	7/8	1 7/32	1 3/16	1 3/16	21/32	13/16	27/32	-	0.21
JHW31230-TH	15/16	1 7/32	1 1/4	1 1/4	21/32	13/16	27/32	-	0.23
JHW31232-TH	1	1 7/32	1 5/16	1 5/16	11/16	13/16	31/32	-	0.26

Fed. Spec: ANSI B107.1



JHW31216-TH JHW31208-TH

Features

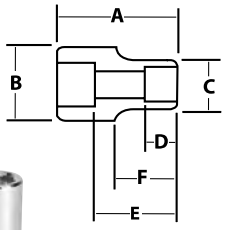
- SUPERTORQUE® lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 12 point fasteners

TOOLS@HEIGHT™ 3/8" DRIVE DEEP SOCKETS, 12 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	F Bolt Clearance Diameter (Inches)	F Nose Length (Inches)	Weight (lbs)
JHW31408-TH	1/4	2 1/2	11/16	7/16	11/32	1 11/16	7/32	1 1/16	0.11
JHW31410-TH	5/16	2 1/2	11/16	15/32	3/8	1 11/16	5/16	1 1/16	0.11
JHW31412-TH	3/8	2 1/2	11/16	9/16	3/8	1 11/16	3/8	1 1/16	0.12
JHW31414-TH	7/16	2 1/2	11/16	5/8	11/32	1 11/16	7/16	1 1/16	0.12
JHW31416-TH	1/2	2 1/2	3/4	3/4	13/32	1 11/32	15/32	-	0.15
JHW31418-TH	9/16	2 1/2	25/32	25/32	17/32	1 9/16	17/32	-	0.18
JHW31420-TH	5/8	2 1/2	7/8	7/8	19/32	1 9/16	19/32	-	0.21
JHW31422-TH	11/16	2 1/2	15/16	15/16	1/2	1 11/16	21/32	-	0.25
JHW31424-TH	3/4	2 1/2	1	1	9/16	1 11/16	23/32	-	0.27
JHW31426-TH	13/16	2 1/2	1 1/8	1 1/8	9/16	2 1/32	25/32	-	0.34
JHW31428-TH	7/8	2 1/2	1 3/16	1 3/16	21/32	2 1/32	27/32	-	0.38
JHW31430-TH	15/16	2 1/2	1 1/4	1 1/4	21/32	2 1/32	27/32	-	0.44
JHW31432-TH	1	2 1/2	1 5/16	1 5/16	11/16	2	31/32	-	0.49

Fed. Spec: ANSI B107.1



JHW31416-TH JHW31408-TH

Features

- SUPERTORQUE® lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

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Release pin with THPRTA – Pin Release Tool for Williams® Square Drive Tools

Do not use quick release tools with locking collars or push button release. These tools can be disengaged inadvertently.

THPRTA

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

JHW35100-TH

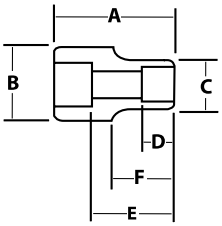
TOOLS@HEIGHT™ 3/8" DRIVE STANDARD LENGTH HEX BIT SOCKETS, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Bit Length (Inches)	Weight (lbs.)
JHW35100-TH	1/8	1 3/16	3/4	1 27/32	21/32	0.09
JHW35101-TH	9/64	1 3/16	3/4	1 27/32	21/32	0.09
JHW35102-TH	5/32	1 3/16	3/4	1 27/32	21/32	0.10
JHW35103-TH	3/16	1 3/16	3/4	1 27/32	21/32	0.09
JHW35104-TH	7/32	1 3/16	3/4	1 27/32	21/32	0.10
JHW35105-TH	1/4	1 3/16	3/4	1 27/32	21/32	0.09
JHW35106-TH	5/16	1 3/16	3/4	1 31/32	13/16	0.11
JHW35107-TH	3/8	1 3/16	3/4	1 31/32	13/16	0.12

Features

- High-polished chrome finish socket cleans easily.



JHW31154-TH JHW31142-TH

TOOLS@HEIGHT™ 3/8" DRIVE UNIVERSAL SOCKETS, 6 POINT, SAE

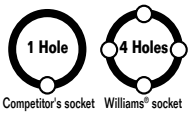
High-Polished Chrome Finish

		A	B	C	D	E	F		
Product Code	Size (Inches)	OAL (Inches)	Drive End Diameter (Inches)	Open End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)	Weight (lbs.)
JHW31142-TH	3/8	1 53/64	3/4	9/16	3/8	35/64	21/64	5/16	0.11
JHW31144-TH	7/16	1 53/64	3/4	5/8	3/8	35/64	21/64	5/16	0.11
JHW31146-TH	1/2	1 57/64	3/4	45/64	13/32	37/64	21/64	13/32	0.12
JHW31148-TH	9/16	1 57/64	3/4	25/32	7/16	43/64	21/64	33/64	0.13
JHW31150-TH	5/8	2	3/4	55/64	7/16	45/64	21/64	33/64	0.14
JHW31152-TH	11/16	2 3/64	3/4	15/16	31/64	3/4	21/64	17/32	0.15
JHW31154-TH	3/4	2 3/64	3/4	1 1/64	1/2	51/64	21/64	17/32	0.16

Fed. Spec: ANSI B107.1

Features

- Ideal for work in confined areas where fastener is inaccessible to standard sockets



Williams® Tools@Height™ sockets, extensions, and adaptors feature a locking hole on all four sides, not just one. Williams® Tools@Height™ ratchets and drive tools feature a locking pin which mates with the side lock hole for positive retention. This reduces the risk of misaligning the socket that typical competitor's sockets with just one side hole create.

Release pin with THPRTA – Pin Release Tool for Williams® Square Drive Tools

Do not use quick release tools with locking collars or push button release. These tools can be disengaged inadvertently.

THPRTA

TOOLS@HEIGHT™ 1/2" DRIVE SCAFFOLDING RATCHET

Product Code	Description	Product Code	Description
BS-63A	Scaffolding Ratchet with reversed pry bar	JHWBS-63BRK	Repair Kit
JHWBS-62	Scaffolding Ratchet with out pry bar	JHWBS-63BTIP	Hammer Tip
JHWBS-63B	Scaffolding Ratchet with pry bar	JHWBS-63BBAR	Pry Bar

Features

Made in U.S.A.

- 1/2" Drive with pinned 7/8" 6-point socket, 2-1/4" length
- 36 tooth gear with 10 degree of engagement allows engagement in tight working areas
- Bronze hammer head reduces rebound
- Pry bar handle provide alignment option
- Socket feature SUPERTORQUE lobular opening for greater turning power without deforming the fastener
- Easy access reversing lever allows user to change working direction quickly and easily with only one hand
- Tethering device attached to handle

TOOLS@HEIGHT™ 1/2" DRIVE ENCLOSED HEAD RATCHETS

Williams® Sealed Narrow Head Design, Chrome and Black Industrial Finish

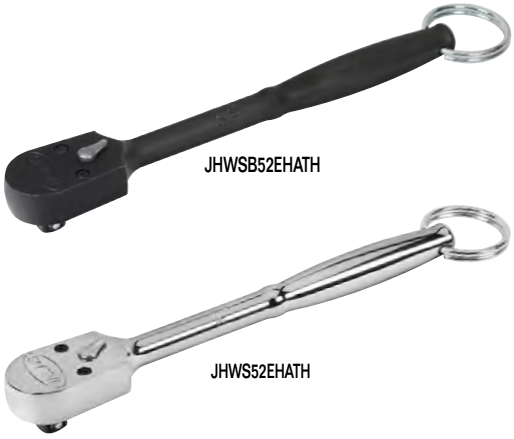
Product Code	Description	Length (Inches)	Number of Teeth	Weight (lbs)
JHWS52EHATH	Chrome Finish Enclosed Head Ratchet	10 1/4	36	1.61
JHWS52EHLATH	Chrome Finish Enclosed Head Ratchet, Long	15	36	1.94
JHWSB52EHATH	Black Industrial Finish Enclosed Head Ratchet	10 1/4	36	1.61

Fed. Spec: ANSI B107.10M

Made in U.S.A.

Features

- Enclosed head is sealed to prevent dust, dirt, and liquids from entering head, preserving internal lubrication
- Forged one-piece ratchet provide strength and safety for industrial applications
- Smooth comfort-grip handle permits all-day use without gloves
- 36 tooth gear with 10 degree of engagement allows engagement in tight working areas
- Nickel/Chrome plating provides increase protection from rust and corrosion
- Chrome finish models feature mirror-like exterior that can be easily cleaned after each use



TOOLS@HEIGHT™ 1/2" DRIVE HANDLES

Knurled Handle, Chrome and Black Industrial Finish

Product Code	Description	Length (Inches)	Weight (lbs)
JHWS-40AA-TH	Chrome Flex Handle	10 13/16	1.34
JHWS-41AA-TH	Chrome Flex Handle	15 1/2	2.07
JHWBS41AATH	Black Industrial Finish Flex Handle	15 1/2	2.06

Fed. Spec: ANSI B107.10M

Made in U.S.A.

Features

- Chrome plating provides increased protection from rust and corrosion.
- Drive handles provide extra leverage with greater strength than ratchets.
- Speeder handle is ideal for fast turn down of fasteners.

Williams® Tools@Height™ sockets, extensions, and adaptors feature a locking hole on all four sides, not just one. Williams® Tools@Height™ ratchets and drive tools feature a locking pin which mates with the side lock hole for positive retention. This reduces the risk of misaligning the socket that typical competitor's sockets with just one side hole create.

Release pin with THPRTA – Pin Release Tool for Williams® Square Drive Tools

Do not use quick release tools with locking collars or push button release. These tools can be disengaged inadvertently.

THPRTA

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

JHWS-140A-TH

TOOLS@HEIGHT™ 1/2" DRIVE EXTENSIONS AND ACCESSORIES

High-Polished Chrome Finish

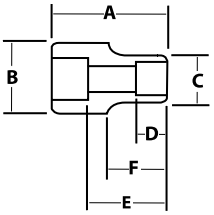
Product Code	Description	Length (Inches)	Weight (lbs.)
JHWS-102P-TH	Extension	2	.38
JHWS-110P-TH	Extension	5	.50
JHWS-115P-TH	Extension	10	.93
JHWS-121P-TH	Extension	20	1.76
JHWS-140A-TH	Universal Joint	2 11/16	.29

Fed. Spec: ANSI B107.10M

Features

- Chrome plating provides increased protection from rust and corrosion

JHWS-121P-TH



JHW32220-TH JHW32212-TH

TOOLS@HEIGHT™ 1/2" DRIVE SHALLOW 12 POINT SOCKETS, SAE

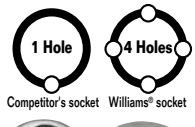
High-Polished Chrome Finish

		A	B	C	D	E		F	
Product Code	Size (Inches)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)	Weight (lbs.)
JHW32212-TH	3/8	1 1/2	7/8	5/8	1/2	25/32	5/16	23/32	0.11
JHW32214-TH	7/16	1 1/2	7/8	11/16	1/2	27/32	13/32	11/16	0.12
JHW32216-TH	1/2	1 1/2	7/8	3/4	17/32	27/32	15/32	23/32	0.12
JHW32218-TH	9/16	1 1/2	7/8	13/16	17/32	27/32	17/32	11/16	0.12
JHW32220-TH	5/8	1 1/2	29/32	29/32	17/32	27/32	9/16	-	0.14
JHW32222-TH	11/16	1 1/2	31/32	31/32	9/16	27/32	21/32	-	0.16
JHW32224-TH	3/4	1 1/2	1	1	3/4	29/32	23/32	-	0.19
JHW32226-TH	13/16	1 1/2	1 1/8	1 1/8	25/32	31/32	25/32	-	0.21
JHW32228-TH	7/8	1 5/8	1 3/16	1 3/16	7/8	1 1/32	7/8	-	0.25
JHW32230-TH	15/16	1 5/8	1 1/4	1 1/4	7/8	1 5/32	29/32	-	0.29
JHW32232-TH	1	1 5/8	1 5/16	1 5/16	7/8	1 3/16	31/32	-	0.32
JHW32234-TH	1 1/16	1 3/4	1 7/16	1 7/16	31/32	1 9/32	1 1/16	-	0.40
JHW32236-TH	1 1/8	1 3/4	1 1/2	1 1/2	31/32	1 5/16	1 5/32	-	0.44
JHW32238-TH	1 3/16	1 3/4	1 9/16	1 9/16	31/32	1 5/16	1 1/4	-	0.50
JHW32240-TH	1 1/4	1 3/4	1 11/16	1 21/32	31/32	1 5/16	1 1/4	-	0.55
32242-TH	1 5/16	1 47/64	1 1/2	1 47/64	59/64	59/64	1 3/16	-	0.56
32244-TH	1 3/8	1 47/64	1 37/64	1 53/64	59/64	59/64	1 17/64	-	0.64
32246-TH	1 7/16	1 31/32	1 21/32	1 57/64	1 1/16	1 1/16	1 11/32	-	0.66
JHW32248-TH	1 1/2	1 31/32	1 11/16	1 31/32	1 1/8	1 1/2	1 1/8	-	0.72

Fed. Spec: ANSI B107.1

Features

- SUPERTORQUE® lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners



Competitor's socket Williams® socket

Williams® Tools@Height™ sockets, extensions, and adaptors feature a locking hole on all four sides, not just one. Williams® Tools@Height™ ratchets and drive tools feature a locking pin which mates with the side lock hole for positive retention. This reduces the risk of misaligning the socket that typical competitor's sockets with just one side hole create.

Release pin with THPRTA – Pin Release Tool for Williams® Square Drive Tools

Do not use quick release tools with locking collars or push button release. These tools can be disengaged inadvertently.

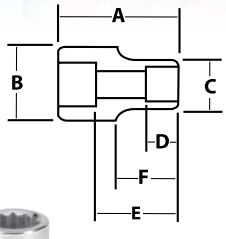
THPRTA

TOOLS@HEIGHT™ 1/2" DRIVE DEEP SOCKETS, 12 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)	Weight (lbs.)
JHW32412-TH	3/8	3	7/8	5/8	1	2 7/32	11/32	1 15/32	0.23
JHW32414-TH	7/16	3 1/32	7/8	11/16	1 1/8	2 9/32	13/32	1 15/32	0.24
JHW32416-TH	1/2	3 1/32	7/8	3/4	31/32	2 7/32	7/16	1 15/32	0.24
JHW32418-TH	9/16	3 1/32	7/8	13/16	1 3/32	2 7/32	1/2	1 15/32	0.26
JHW32420-TH	5/8	3 1/32	29/32	29/32	1 3/16	2 3/16	9/16	-	0.27
JHW32422-TH	11/16	3 1/32	15/16	15/16	1 3/8	2 3/16	21/32	-	0.27
JHW32424-TH	3/4	3 1/32	1 1/16	1 1/16	1 1/4	2 11/32	23/32	-	0.27
JHW32426-TH	13/16	3 1/32	1 1/8	1 1/8	1 15/32	2 3/16	3/4	-	0.41
JHW32428-TH	7/8	3 1/32	1 3/16	1 3/16	1 13/32	2 1/4	27/32	-	0.45
JHW32430-TH	15/16	3 1/32	1 1/4	1 1/4	1 13/32	2 5/32	29/32	-	0.50
JHW32432-TH	1	3 1/32	1 11/32	1 11/32	1 13/32	2 5/32	15/16	-	0.58
JHW32434-TH	1 1/16	3 1/32	1 13/32	1 13/32	1 3/8	2 11/32	1 1/32	-	0.64
JHW32436-TH	1 1/8	3 1/32	1 1/2	1 1/2	1 7/16	2 3/8	1 1/16	-	0.75
JHW32438-TH	1 3/16	3 1/32	1 9/16	1 9/16	1 7/16	2 3/16	1 1/16	-	0.81
JHW32440-TH	1 1/4	3 1/32	1 21/32	1 21/32	1 7/16	2 3/16	1 1/16	-	0.88
32442-TH	1 5/16	3 1/32	1 47/64	1 47/64	1 3/8	2 11/64	1 3/16	-	0.98
32444-TH	1 3/8	3 1/32	1 53/64	1 53/64	1 3/8	2 11/64	1 17/64	-	1.12
32446-TH	1 7/16	3 1/32	1 57/64	1 57/64	1 3/8	2 11/64	1 11/32	-	1.19
JHW32448-TH	1 1/2	3 1/32	1 15/16	1 31/32	1 7/16	2 3/16	1 1/16	-	1.38

Fed. Spec: ANSI B107.1



JHW32420-TH JHW32412-TH

Features

- SUPERTORQUE® lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

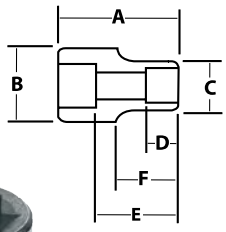
TOOLS@HEIGHT™ 1/2" DRIVE SHALLOW SOCKETS, 8 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)	Weight (lbs.)
JHWST-812-TH	3/8	1 1/2	7/8	23/32	5/16	27/32	5/16	7/8	0.14
JHWST-814-TH	7/16	1 1/2	7/8	13/16	3/8	27/32	5/16	7/8	0.13
JHWST-816-TH	1/2	1 1/2	29/32	29/32	13/32	27/32	11/32	-	0.16
JHWST-818-TH	9/16	1 1/2	31/32	31/32	7/16	27/32	7/16	-	0.18
JHWST-820-TH	5/8	1 1/2	1 1/16	1 1/16	1/2	27/32	7/16	-	0.24
JHWST-822-TH	11/16	1 1/2	1 3/16	1 3/16	1/2	27/32	17/32	-	0.37
JHWST-824-TH	3/4	1 1/2	1 9/32	1 9/32	9/16	13/16	23/32	-	0.37
JHWST-826-TH	13/16	1 5/8	1 7/16	17/16	9/16	31/32	27/32	-	0.49
JHWST-828-TH	7/8	1 3/4	1 1/2	1 1/2	5/8	1 1/16	15/16	-	0.53
JHWST-830-TH	15/16	1 13/16	1 5/8	1 5/8	11/16	1 1/8	1 1/32	-	0.63
JHWST-832-TH	1	1 15/16	1 11/16	1 11/16	11/16	1 1/4	1 1/32	-	0.78

Fed. Spec: ANSI B107.1

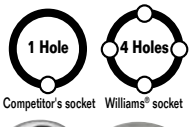
Made in U.S.A.



JHWST-812-TH

Features

- SUPERTORQUE® lobular openings for greater turning power without deforming the fastener
- 8 point sockets are designed for quick engagement on 4 point fasteners



Competitor's socket Williams® socket

Williams® Tools@Height™ sockets, extensions, and adaptors feature a locking hole on all four sides, not just one. Williams® Tools@Height™ ratchets and drive tools feature a locking pin which mates with the side lock hole for positive retention. This reduces the risk of misaligning the socket that typical competitor's sockets with just one side hole create.

Release pin with THPRTA – Pin Release Tool for Williams® Square Drive Tools

Do not use quick release tools with locking collars or push button release. These tools can be disengaged inadvertently.

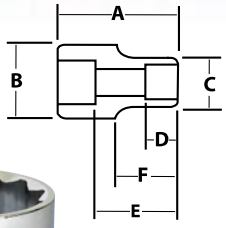
THPRTA

⚠WARNING

Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

TOOLS@HEIGHT™ 1/2" DRIVE DEEP SOCKETS, 12 POINT, METRIC

High-Polished Chrome Finish



JHW32820-TH

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)	Weight (lbs)
JHW32809-TH	9	3 1/4	29/32	19/32	5/16	2 15/32	11/32	2 19/32	0.22
JHW32810-TH	10	3 1/4	29/32	19/32	5/16	2 15/32	11/32	2 19/32	0.22
JHW32811-TH	11	3 1/4	29/32	11/16	5/16	2 15/32	13/32	2 19/32	0.22
JHW32812-TH	12	3 1/4	29/32	23/32	13/32	2 15/32	7/16	2 19/32	0.23
JHW32813-TH	13	3 1/4	29/32	25/32	3/8	2 15/32	15/32	2 19/32	0.24
JHW32814-TH	14	3 1/4	29/32	27/32	3/8	2 15/32	15/32	2 19/32	0.24
JHW32815-TH	15	3 1/4	29/32	7/8	3/8	2 11/32	15/32	-	0.24
JHW32816-TH	16	3 1/4	29/32	29/32	9/16	2 11/32	15/32	-	0.27
JHW32817-TH	17	3 1/4	31/32	31/32	9/16	2 11/32	15/32	-	0.31
JHW32818-TH	18	3 1/4	1	1	13/16	2 11/32	15/32	-	0.34
JHW32819-TH	19	3 1/4	1 1/32	1 1/32	13/16	2 5/16	23/32	-	0.37
JHW32820-TH	20	3 1/4	1 1/16	1 1/16	13/16	2 5/16	23/32	-	0.40
JHW32821-TH	21	3 1/4	1 1/8	1 1/8	13/16	2 5/16	3/4	-	0.41
JHW32822-TH	22	3 1/4	1 3/16	1 3/16	13/16	2 5/16	25/32	-	0.46
JHW32823-TH	23	3 1/4	1 1/4	1 1/4	25/32	2 5/16	27/32	-	0.49
JHW32824-TH	24	3 1/4	1 9/32	1 9/32	13/16	2 5/16	7/8	-	0.52
JHW32825-TH	25	3 1/4	1 5/16	1 5/16	13/16	2 1/4	15/16	-	0.55
JHW32826-TH	26	3 1/4	1 3/8	1 3/8	29/32	2 1/4	31/32	-	0.57
JHW32827-TH	27	3 1/4	1 7/16	1 7/16	31/32	2 1/4	1	-	0.66
JHW32828-TH	28	3 1/4	1 1/2	1 1/2	1	2 1/4	1 1/32	-	0.73
JHW32829-TH	29	3 1/4	1 9/16	1 9/16	1 1/32	2 1/4	1 1/16	-	0.78
JHW32830-TH	30	3 1/4	1 5/8	1 5/8	1 1/32	2 1/4	1 3/32	-	0.83
JHW32832-TH	32	3 1/4	1 11/16	1 11/16	1 1/8	2 1/4	1 3/16	-	0.93
32834-TH	34	3 1/4	1 3/4	1 3/4	7/8	2 1/4	1	-	0.93
JHW32836-TH	36	3 1/4	1 15/16	1 15/16	7/8	2 1/4	1 13/32	-	1.16

Fed. Spec: ANSI B107.5

JHW32949-TH - 24 Piece 1/2" Drive Deep 12 Point Socket Set on Clip Rail 12.02 lbs.

Features

- SUPERTORQUE® lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

JHW35212-TH

JHW35274-TH

TOOLS@HEIGHT™ 1/2" DRIVE STANDARD LENGTH HEX BIT SOCKETS, SAE

F

High-Polished Chrome Finish

Product Code	Size (Inches)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Bit Length (Inches)	Weight (lbs)
JHW35208-TH	1/4	1 7/16	29/32	2 13/32	27/32	0.17
JHW35210-TH	5/16	1 7/16	29/32	2 13/32	27/32	0.17
JHW35212-TH	3/8	1 7/16	29/32	2 13/32	27/32	0.19
JHW35214-TH	7/16	1 7/16	29/32	2 13/32	27/32	0.22
JHW35202-TH	1/2	1 19/32	7/8	2 13/32	27/32	0.26
JHW35203-TH	9/16	1 19/32	1	2 13/32	27/32	0.33
JHW35204-TH	5/8	1 19/32	1 1/16	2 13/32	27/32	0.39
JHW35206-TH	3/4	1 19/32	1 3/16	2 13/32	27/32	0.51

TOOLS@HEIGHT™ 1/2" DRIVE STANDARD LENGTH HEX BIT SOCKETS, METRIC

M

High-Polished Chrome Finish

Product Code	Size (MM)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Bit Length (Inches)	Weight (lbs)
JHW35274-TH	8	1 19/32	29/32	2 13/32	27/32	0.17
JHW35275-TH	10	1 19/32	29/32	2 7/16	27/32	0.19
JHW35276-TH	12	1 19/32	29/32	2 7/16	27/32	0.22
JHW35277-TH	14	1 19/32	1	2 7/16	27/32	0.32
JHW35278-TH	17	1 19/32	1 3/32	2 7/16	27/32	0.43
JHW35279-TH	19	1 19/32	1 3/16	2 7/16	27/32	0.51

Features

- High-polished chrome finish socket cleans easily

Williams® Tools@Height™ sockets, extensions, and adaptors feature a locking hole on all four sides, not just one. Williams® Tools@Height™ ratchets and drive tools feature a locking pin which mates with the side lock hole for positive retention. This reduces the risk of misaligning the socket that typical competitor's sockets with just one side hole create.

Release pin with THPRTA – Pin Release Tool for Williams® Square Drive Tools

Do not use quick release tools with locking collars or push button release. These tools can be disengaged inadvertently.

THPRTA

TOOLS@HEIGHT™ 3/4" DRIVE INTEGRATED HANDLE RATCHETS

Chrome and Black Industrial Finish

Product Code	Description	Length (Inches)	Number of Teeth	Weight (lbs)
JHWH-51B-TH	Chrome Finish Ratchet	20 1/8	24	6.04
JHWHB-51B-TH	Black Industrial Finish Ratchet	20 1/8	24	6.04

Fed. Spec: ANSI B107.10M

Made in U.S.A.

Features

- Forged one-piece ratchet provide strength and safety for industrial applications
- Smooth comfort-grip handle permits all-day use without gloves

TOOLS@HEIGHT™ 3/4" DRIVE EXTENSIONS

Chrome and Black Industrial Finish

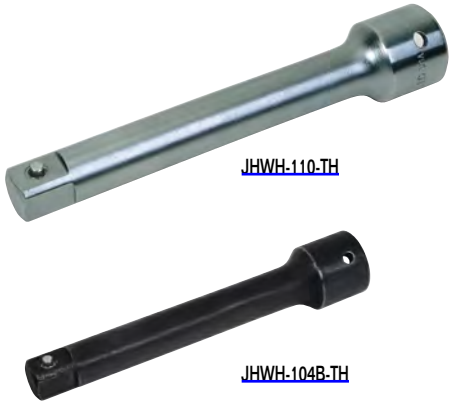
Product Code	Description	Length (Inches)	Weight (lbs)
JHWH-104B-TH	Black Industrial Finish Drive Extension	3	0.73
JHWH-110B-TH	Black Industrial Finish Drive Extension	8	1.70
JHWH-110-TH	Chrome Finish Drive Extension	8	1.72
JHWH-115-TH	Chrome Finish Drive Extension	16	3.25

Fed. Spec: ANSI B107.10M

Made in U.S.A.

Features

- Chrome plating provides increased protection from rust and corrosion



TOOLS@HEIGHT™ 3/4" DRIVE HANDLE

Chrome and Black Industrial Finish

Product Code	Description	Length (Inches)	Finish
JHWH-41AA-TH	Flex Handle Breaker Bar, Knurled Grip	22 1/8	Chrome

Fed. Spec: ANSI B107.10M

Made in U.S.A.

Features

- Chrome plating provides increased protection from rust and corrosion
- Drive handles provide extra leverage with greater strength than ratchets
- Square drive slides on T-Handles for versatility
- Flex handle flex drive swivels 110° in either direction

Williams® Tools@Height™ sockets, extensions, and adaptors feature a locking hole on all four sides, not just one. Williams® Tools@Height™ ratchets and drive tools feature a locking pin which mates with the side lock hole for positive retention. This reduces the risk of misaligning the socket that typical competitor's sockets with just one side hole create.

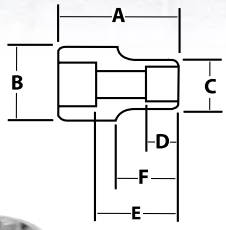
Release pin with THPRTA – Pin Release Tool for Williams® Square Drive Tools

Do not use quick release tools with locking collars or push button release. These tools can be disengaged inadvertently.

THPRTA

⚠WARNING

Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.



JHW33244-TH JHW33228-TH

TOOLS@HEIGHT™ 3/4" DRIVE SHALLOW 12 POINT SOCKETS, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	F Nose Length (Inches)	Weight (lbs)
JHW33228-TH	7/8	1 15/16	1 7/16	1 1/4	35/64	0.46
JHW33230-TH	15/16	2	1 7/16	1 3/8	5/8	0.49
JHW33232-TH	1	2 1/16	1 7/16	1 7/16	5/8	0.49
JHW33234-TH	1 1/16	2 1/16	1 7/16	1 1/2	7/8	0.49
JHW33236-TH	1 1/8	2 1/16	1 1/2	1 9/16	7/8	0.54
JHW33238-TH	1 3/16	2 1/8	1 1/2	1 11/16	15/16	0.60
JHW33240-TH	1 1/4	2 3/16	1 1/2	1 3/4	15/16	0.64
JHW33242-TH	1 5/16	2 3/16	1 1/2	1 13/16	1	0.69
JHW33244-TH	1 3/8	2 1/4	1 5/8	1 7/8	1	0.83
JHW33246-TH	1 7/16	2 1/4	1 5/8	1 31/32	1 7/64	0.90
JHW33248-TH	1 1/2	2 3/8	1 3/4	2 1/16	1 7/64	1.01
JHW33252-TH	1 5/8	2 1/2	1 3/4	2 3/16	1 3/16	1.17
JHW33256-TH	1 3/4	2 9/16	1 13/16	2 5/16	1 1/4	1.37
JHW33258-TH	1 13/16	2 11/16	1 13/16	2 3/8	1 1/4	1.37
JHW33260-TH	1 7/8	2 3/4	1 7/8	2 1/2	1 11/32	1.57
JHW33264-TH	2	2 13/16	1 7/8	2 11/16	1 13/32	1.64

Fed. Spec: ANSI B107.1

TOOLS@HEIGHT™ 1" DRIVE HANDLE

JHWX-41C-TH

Chrome and Black Industrial Finish

Product Code	Description	Length (Inches)	Finish	Weight (lbs)
JHWX-41C-TH	Flex Handle Breaker Bar, Knurled Grip	34 3/16	Chrome	10.93

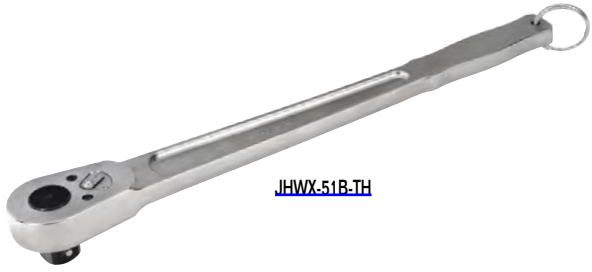
Fed. Spec: ANSI B107.10M

Made in U.S.A.

Features

- Chrome plating provides increased protection from rust and corrosion
- Drive handles provide extra leverage with greater strength than ratchets
- Square drive slides on T-Handles for versatility
- Flex handle flex drive swivels 110° in either direction
- Spring and plunger socket retention

TOOLS@HEIGHT™ 1" DRIVE RATCHET



JHWX-51B-TH

Integrated Handle, Chrome Finish

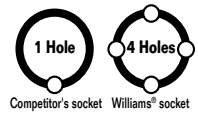
Product Code	Description	Length (Inches)	Number of Teeth	Weight (lbs)
JHWX-51B-TH	Chrome Ratchet	20 1/8	24	6.25

Fed. Spec: ANSI B107.10M

Made in U.S.A.

Features

- Forged one-piece ratchet provide strength and safety for industrial applications
- Smooth comfort-grip handle permits all-day use without gloves
- 24 tooth gear with 15 degree of engagement allows engagement in tight working areas
- Chrome finish with mirror-like exterior can be easily cleaned after each use



Competitor's socket Williams® socket

Williams® Tools@Height™ sockets, extensions, and adaptors feature a locking hole on all four sides, not just one. Williams® Tools@Height™ ratchets and drive tools feature a locking pin which mates with the side lock hole for positive retention. This reduces the risk of misaligning the socket that typical competitor's sockets with just one side hole create.

Release pin with THPRTA – Pin Release Tool for Williams® Square Drive Tools

Do not use quick release tools with locking collars or push button release. These tools can be disengaged inadvertently.

THPRTA

TOOLS@HEIGHT™ 1000V ERGO® SCREWDRIVERS

Three Component Handle with Black Oxide Tips

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip Width (Inches)	Weight (lbs)
SLOTTED				
BE-8220S-TH	9	4	1/8	.089
BE-8040S-TH	8 3/4	4	5/32	.136
BE-8050S-TH	8 3/4	4	7/32	.089
PHILLIPS				
BE-8610S-TH	8	3 5/32	1	.141
BE-8620S-TH	8 3/4	4	2	.241

Features

- The three component ergonomically designed handle provides comfort and maximum grip even with oily hands
- For use with optional WTHUNIRET1 retractable lanyard

1000V

TOOLS@HEIGHT™ 5 PIECE PREMIUM MIXED SCREWDRIVER SET

Premium Comfort Grip Handles and Blades

Product Code	Description
100P-5MD-TH	5 Piece Premium Screwdriver Set Phillips/Slotted

Contents Include:

Product Code	Overall length (Inches)	Blade Length (Inches)	Tip Width/Point Size
JHWSDR-22-TH	6 1/8	3	3/16
JHWSDR-24-TH	7 7/8	4	1/4
JHWSDR-26-TH	10 11/16	6	5/16
JHWSDP13TH	6 1/4	3	#1 Phillips
JHWSDP24TH	7 15/16	4	#2 Phillips

TOOLS@HEIGHT™ SLOTTED SCREWDRIVERS

Premium Comfort Grip Handles and Blades

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip Width (Inches)	Weight (lbs)
JHWSDS-62-TH	3 7/8	1 1/2	3/16	0.09
JHWSDR-22-TH	6 1/8	3	3/16	0.17
JHWSDR-24-TH	7 7/8	4	1/4	0.26
JHWSDR-26-TH	10 11/16	6	5/16	0.38
JHWSDR-28-TH	12 11/16	8	3/8	0.59
JHWSDR-30-TH	14 3/4	10	7/16	0.66

Made in U.S.A.

Features

- Comfort-grip handle with thumb stop allow for added turning power without discomfort or slippage.
- Hi-polish chrome blades prevent corrosion and can be easily cleaned.
- Vapor-blasted tips grip fasteners and prevent chipping, extending tool life.
- Blades are made from special alloy steel for extra strength.

Rotating screwdriver tabs – tab is located for secure retention and allow full use of the screwdriver handle

- Stainless steel tab is corrosion resistant
- Tab rotates freely 360° so the lanyard does not wrap around the users hand
- Nylon bushing has a shoulder so the tab will not bind between the handle and shank bolster

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

TOOLS@HEIGHT™ PHILLIPS® SCREWDRIVERS W/ROUND BLADES

Premium Comfort Grip Handles and Blades

Product Code	Overall Length (Inches)	Blade Length (Inches)	Point Size	Weight (lbs)
JHWSDP2STTH	3 7/8	1 1/2	2	0.10
JHWSDP13TH	6 1/4	3	1	0.15
JHWSDP24TH	7 15/16	4	2	0.25
JHWSDP28TH*	12	8	2	0.30
JHWSDP36TH	10 1/2	6	3	0.39
JHWSDP46TH	10 3/4	6	4	0.53

* Does not have Bolster

Made in U.S.A.

Features

- Comfort-grip handle with thumb stop allow for added turning power without discomfort or slippage
- Hi-polish chrome blades prevent corrosion and can be easily cleaned
- Vapor-blasted tips grip fasteners and prevent chipping, extending tool life
- Blades are made from special alloy steel for extra strength.

TOOLS@HEIGHT™ WEDGE WIDTH POSITION ADJUSTABLE SHACKLE

Durable Shackle with Wave Washers

Product Code	Overall Length Wedge Only (Inches)	Overall Length Including Shackle (Inches)	Overall Width Including Shackle (Inches)	Width Wedge Working Area (Inches)	Tip Thickness (Inches)	Weight (lbs)
JHWWG6412TH	12	14	2.3	2	0.1	6.9
JHWWG2408TH	8	9	1.82	1.5	0.1	1.5
THCARA257FTB	SST Carabiner to carabiner bungee lanyard, medium duty					

Features

- Wedge features a durable shackle with wave washers that allow the shackle to be positioned out of the way while being struckPrecision machined socket end
- Useful for most separating and positioning tasks
- Designed to allow the shackle to swivel fully from one side to the other
- Made from heat treated alloy steel; Stainless steel shackle is durable and will not corrode in harsh environments
- Shackle has position adjustment feature to keep the shackle out of the hammer path, even when used upside down
- Shackle pin is locked in place to prevent it from “walking out” during use

TOOLS@HEIGHT™ BULL PINS WIDTH POSITION ADJUSTABLE SHACKLE

Durable Shackle with Wave Washers

Product Code	Overall Length Bull Pin Only (Inches)	Overall Length Including Shackle (Inches)	Overall Width Including Shackle (Inches)	Diameter Bull Pin Working Area (Inches)	Point Diameter (Inches)	Weight (lbs)
JHWBP4014TH	14	16	2 5/16	1 1/4	5/16	3.5
JHWBP3410TH	10	11	1 13/16	1 1/16	1/4	3
THCARA257FTB	SST Carabiner to carabiner bungee lanyard, medium duty					
KLE5417T	Bull Pin Holder - Leather					

Features

- Bull Pins feature a durable shackle with wave washers that allow the shackle to be positioned out of the way while being struck
- Broad head bull pin for most alignment tasks
- Head of bull pin designed to allow the shackle to swivel fully from one side to the other
- Bull Pin made from heat treated alloy steel; Stainless steel shackle is durable and will not corrode in harsh environments
- Shackle has position adjustment feature to keep the shackle out of the hammer path, even when used upside down
- Shackle pin is locked in place to prevent it from “walking out” during use
- Broad head angle allows shackle to pass from side to side, even as head mushrooms from being struck

TOOLS@HEIGHT™ UTILITY SUPERJOINT PLIERS

Double-Dipped Plastic Handles

Features	Overall Length (Inches)	Maximum Opening (Inches)	Tip Width (Inches)	Weight (lbs)
JHWPL1519CTH	5	1/2	3/16	0.22
JHWPL1520CTH	10	1 1/2	5/16	0.92
JHWPL1523CTH	12	2 5/8	1/2	1.50
JHWPL1524CTH	16	4	1/2	2.78

Features

Made in U.S.A.

- Multiple parallel jaw positions are locked in to proper groove for superior non-slip performance
- Serrated jaws for maximum gripping power
- Polished heads resist rust and corrosion, extending the tool life

JHWPL1520CTH

TOOLS@HEIGHT™ COMBINATION SLIP-JOINT PLIERS

Double-Dipped Plastic Handles

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Tip Width (Inches)	Weight (lbs)
JHWPL-8C-TH	8	1 13/32	3/8	0.73
JHWPL-10C-TH	10	1 13/32	1/2	1.04

Features

Made in U.S.A.

- Multiple parallel jaw positions are locked in to proper groove for superior non-slip performance
- Serrated jaws for maximum gripping power
- Polished heads resist rust and corrosion, extending the tool life
- Shear type wire cutter extends tool use

JHWPL-10C-TH

TOOLS@HEIGHT™ INDUSTRIAL GRADE LINESMAN'S PLIERS

Double-Dipped Plastic Handles

Product Code	Description	Overall Length (Inches)	Jaw Length (Inches)	Weight (lbs)
JHWPL204CTH	Electrician's	7	1/2	.62

Features

Made in U.S.A.

- Designed for wiring, electrical equipment installation and maintenance for utility linemen
- Polished faces look good and resist corrosion
- Induction hardened cutting edges stay sharp longer
- Diamond serrated jaws provide solid grip on wire
- Double-dipped plastic handle grips are comfortable yet durable

JHWPL204CTH

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

JHWPL-57C-TH

TOOLS@HEIGHT™ HIGH LEVERAGE DIAGONAL CUTTING PLIERS

Double-Dipped Plastic Handles

Product Code	Description	Overall Length (Inches)	Cutting Blade Length (Inches)	Weight (lbs)
JHWPL-57C-TH	High Leverage Head	7 1/4	15/16	0.50

Features

- Handles are designed to cut wire with ease
- Polished heads resist rust and corrosion, extending the tool life
- Induction hardened cutting edges

Made in U.S.A.

JHWPL-46C-TH

TOOLS@HEIGHT™ INDUSTRIAL GRADE DIAGONAL CUTTING PLIERS

Double-Dipped Plastic Handles

Product Code	Overall Length (Inches)	Cutting Blade Length (Inches)	Weight (lbs)
JHWPL-46C-TH	6	3/4	.37
JHWPL-47C-TH	7	11/16	.50

Features

- Handles are designed to cut wire with ease
- Polished heads resist rust and corrosion, extending the tool life
- Induction hardened cutting edges
- Regular flush cutters are used for cutting hard wire

Made in U.S.A.

JHWPL-76C-TH

TOOLS@HEIGHT™ CHAIN NOSE PLIERS

Double-Dipped Plastic Handles

Product Code	Description	Overall Length (Inches)	Jaw Length (Inches)	Weight (lbs)
JHWPL-76C-TH	Long Nose w/cutter	6 1/2	1 5/16	.38

Features

- Polished heads resist rust and corrosion, extending the tool life
- Diamond serrated jaws with industrial hardened cutting edges

Made in U.S.A.

JHWPL149CTH

TOOLS@HEIGHT™ DUCK BILL PLIERS

Double-Dipped Plastic Handles

Product Code	Description	Overall Length (Inches)	Jaw Length (Inches)	Weight (lbs)
JHWPL149CTH	High Leverage	8	1 1/4	.44

Features

- Jaws are polished with rust-protective coating
- Flat wide nose provides a better grip than the regular needle nose models

Made in U.S.A.

TOOLS@HEIGHT™ THIN BENT CHAIN NOSE PLIERS

Double-Dipped Plastic Handles

Product Code	Description	Overall Length (Inches)	Jaw Length (Inches)	Weight (lbs)
JHWPL126CTH	73° Bent Thin Nose	6 1/4	1 1/4	0.33

Made in U.S.A.

Features

- Polished heads resist rust and corrosion, extending the tool life
- Serrated jaws for extra gripping power
- 73° bent nose model featured thin jaws angled to reach around obstacles and hard-to-reach spaces

JHWPL126CTH

TOOLS@HEIGHT™ HEAVY DUTY FRONT END WIRE STRIPPERS

Double-Dipped Plastic Handles

Product Code	Overall Length (Inches)	Capacity (AWG-solid wire)	Capacity (stranded wire)	Weight (lbs)
JHW23506-TH	6 1/4	10-20	12-20	.24

Made in U.S.A.

Features

- Double-dipped handles with air cushion pockets provide comfortable grip, reducing hand fatigue
- Spring-loaded handles speed work and reduce hand effort
- Serrated gripping jaws in nose for use as pliers
- 2-piece hardened steel pivot for long life service
- Lock protects cutting edges in storage

JHW23506-TH

TOOLS@HEIGHT™ MULTI-PURPOSE COMBINATION WIRE TOOLS

Double-Dipped Plastic Handles with Curved Wire Cutter

Product Code	Description	Overall Length (Inches)	Nose Style	Weight (lbs)
JHW23503-TH	Front-end Stripper	8 1/4	Serrated Pliers	0.45

Made in U.S.A.

Features

- Crimp and strip wire sizes 10-22 AWG
- Double-dipped handles with air cushion pockets provide comfortable grip, reducing hand fatigue
- 23503 cuts 6 bolt sizes: 4-40 / 5-40 / 6-32 / 8-32 / 10-32 / 10-24

JHW23503-TH

TOOLS@HEIGHT™ WIRE TWISTER / CUTTER

Produces Right Hand (clockwise) Twists

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Cutting Blade Length (Inches)	Weight (lbs)
JHWWTC-11-TH	8.5	1 1/16	1/4	.53

Made in U.S.A.

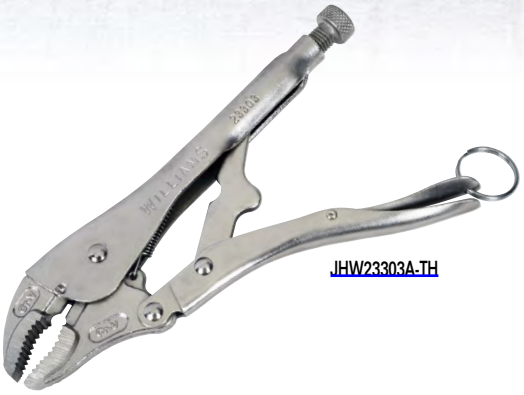
Features

- Diamond-shaped, flat top jaw serrations hold wire firmly and resist nicking material being worked on
- Diagonal nose configurations & “mini” frame allows access in tight quarters
- Automatic return feature retracts automatically, speeding up operation use and reducing operator fatigue
- Heat-treated cutting edge holds it edge for cutting tough (up to .041) stainless steel and safety wire
- One hand operation allows for operator closing and locking with minimum of handle force
- High carbon alloy steel forging are used for maximum durability and long life

JHWWTC-11-TH

⚠WARNING

Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.


JHW23303A-TH

TOOLS@HEIGHT™ CABLE CUTTER FOR FERROUS MATERIALS

Locking Pliers

Product Code	Overall Length (Inches)	Weight (lbs)
JHW23302A-TH	7	0.71
JHW23303A-TH	10	1.15

Features

- Convenient one-hand release lever
- Heavy-duty jaw surfaces provide extra gripping power

JHW23310A-TH

JHW23321A-TH

TOOLS@HEIGHT™ LOCKING PLIERS

Long Nose with Wire Cutter Locking Pliers

Product Code	Overall Length (Inches)	Weight (lbs)
JHW23310A-TH	9	0.80

Locking C-Clamps

Product Code	Overall Length (Inches)	Throat Depth	Capacity (Lbs.)	Weight (lbs)
JHW23321A-TH	11	2¼"	900	1.65

Features

- Convenient one-hand release lever
- Heavy-duty jaw surfaces provide extra gripping power

JHWCC404CTH

TOOLS@HEIGHT™ DROP FORGED C-CLAMPS

Deep Throat Design, Copper Plated Screw

Product Code	Capacity (Inches)	Throat Depth (Inches)	Screw Diameter (Inches)	Min Test Load (lbs)	Weight (lbs)
JHWCC402CTH	2	2 11/32	½	3500	1.50
JHWCC404CTH	4	3 3/16	¾	6500	3.15
JHWCC406CTH	6	4 1/8	¾	6900	5.24
JHWCC408CTH	8	5 3/16	¾	6900	7.5

Features

- Copper plated screw resists weld splatter
- Drop-forged and heat treated for maximum strength and greater rigidity
- I-Beam design for extra strength
- Highly resistant to "springing"

Made in U.S.A.

Any tool that weighs more than 5 pounds should be attached to an anchor point such as a work platform or utility bucket rather than the operator.

TOOLS@HEIGHT™ PIPE WRENCHES

Aluminum, Heavy Duty

Product Code	Overall Capacity (Inches)	Maximum jaw Opening	Weight (lbs)
R31090-TH	10	1 1/2	1
R47057-TH	12	2	2.5
R31095-TH	14	2	2.5
R31100-TH	18	2 1/2	3.75
R31105-TH*	24	3	6.5
R31110-TH*	36	5	11.2
R31115-TH*	48	6	19.5

Features

- Professional strength in lightweight aluminum
- Offers the durability and ease-of-use

Made in U.S.A.

*Tools@Height Tools Over 5 lbs. with Engineered Attachment Point. Three-foot-long web strap/carabiner system designed for use with "master ring" systems.

R31090-TH

We pin the tang of the removable pipe wrench jaw so it cannot become separated from the handle

TOOLS@HEIGHT™ PIPE WRENCHES

Cast Iron, Heavy Duty

Product Code	Overall Capacity (Inches)	Maximum jaw Opening	Weight (lbs)
R31000-TH	6	3/4	0.5
R31005-TH	8	1	0.75
R31010-TH	10	1 1/2	1.75
R31015-TH	12	2	2.75
R31020-TH	14	2	3.5
R31025-TH*	18	2 9/16	5.8
R31030-TH*	24	3	9.5
R31035-TH*	36	5	19.5
R31040-TH*	48	6	32

Features

- Sturdy, cast-iron housing and I-beam handle with full floating forged hook jaw, featuring self-cleaning threads with replaceable hook and heel jaws
- Heavy-duty pipe wrenches comply with federal specifications GGG-W65IE, Type II, Class A

Made in U.S.A.

*Tools@Height Tools Over 5 lbs. with Engineered Attachment Point. Three-foot-long web strap/carabiner system designed for use with "master ring" systems.

R31010-TH

R31030-TH

Tools@Height Tools Over 5 lbs. with Engineered Attachment Point. Three-foot-long web strap/carabiner system designed for use with "master ring" systems.

TOOLS@HEIGHT™ PIPE CHAIN WRENCH

Heat Treated

Product Code	Pipe Diameter Minimum - Maximum (Pipe Size)	Handle Length (Inches)	Chain Length (Inches)	Weight (lbs)
JHWCW-4-TH	3/8 - 4	11	15	1.80

Features

- Forged handle is fully heat-treated
- Ideal for use in close quarters and where space is at a premium
- Successive "bites" can be taken without removal of wrench from the work piece
- Fully adjustable to fit any shape pipe

Made in U.S.A.

JHWCW-4-TH

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

THFSNF3-22SM

TOOLS@HEIGHT™ CLAW HAMMER

Solid steel hammer with Cushion Grip

Product Code	Head Weight (ozs.)	Handle Length (Inches)	Overall Length (Inches)	Weight (lbs.)
THFSNF3-22SM	22	7 1/4	15 3/4	2.13
MOIE3-16C-TH	16	11	13	1.5

Features

- Cushion grip handle provides greater comfort and safety
- Durable design for a long lasting hammer

Made in U.S.A.

JHW20543-TH

TOOLS@HEIGHT™ BALL PEIN HAMMERS

Fiberglass Handles with Cushion Grip

Product Code	Handle Length (Inches)	Overall Length (Inches)	Face Diameter (Inches)	Weight (lbs.)
JHW20542-TH	9 1/2	10 3/4	7/8	1.84
JHW20543-TH	10 1/4	11 3/4	7/8	1.23
JHW20544-TH	11 1/4	13	1 7/8	1.67
JHW20545-TH	13	15	1 1/4	2.31
JHW20546-TH	12 3/4	15	1 1/4	2.69

Features

- Ideal for driving punches, chisels and other metal work
- Fiberglass handle has a cushion grip for greater comfort and safety
- Hammer heads are drop-forged from specially selected steel and carefully heat treated for dependable strength, hardness and uniformity

HSB-1.5A-TH

TOOLS@HEIGHT™ BRONZE HAMMER

Fiberglass Handles with Cushion Grip

Product Code	Handle Length (Inches)	Overall Length (Inches)	Face Diameter (Inches)	Weight Class (lbs)
HSB-1.5A-TH	10 3/8	12	1	1.91

Features

- Ideal for applications which require non-sparking conditions
- The flat surface brass head absorbs impact blows, reduces rebound and helps eliminate marred work surfaces
- Non-slip cushion grip provides greater comfort and safety

Made in U.S.A.

TOOLS@HEIGHT™ DRILLING HAMMER

Fiberglass Handles with Cushion Grip

Product Code	Handle Length (Inches)	Overall Length (Inches)	Weight (lbs.)
JHW20678-TH	8 ½	10 ¼	2.55

Features

- Handles are durable and comfortable
- Heavy duty construction for strength and durability

JHW20678-TH

TOOLS@HEIGHT™ CROSS PEIN HAMMER

Fiberglass Handles with Cushion Grip

Product Code	Weight (ozs.)	Handle Length (Inches)	Overall Length (Inches)	Weight (lbs.)
20651-TH	48	13	15 ¾	4.96

Features

- Handles are durable and comfortable
- Heavy duty construction for strength and durability

20651-TH

TOOLS@HEIGHT™ SLEDGE HAMMERS

Fiberglass Handles

Product Code	Weight Class (lbs.)	Handle Length (Inches)	Overall Length (Inches)	Face Diameter (Inches)	Weight (lbs.)
SHF-4SA-TH **	4	14	14	1 ¼	4.93
SHF-8SA-TH **	8	32	32	2	10.34
SHF-12SA-TH **	12	32	32	2 ¼	14.45
SHF-4A-TH	4	14	14	1 ⅝	4.78
SHF-6A-TH	6	32	32	1 ¾	7.74
SHF-8A-TH	8	32	32	2	9.89
SHF-10A-TH	10	16	16	2 ⅛	11.34
SHF-10LA-TH	10	32	32	2 ⅛	12.18
SHF-12A-TH	12	32	32	2 ¼	14.70
SHF-16A-TH	16	24	24	2 ⅝	18.43

Features

- ** Soft steel safety head is similar in hardness to brass
- ** Ideal replacement for Brass Head where non-sparking is not required
- Double faced head is hardened and tempered forged for maximum strength and durability

Made in U.S.A.

SHF-10LA-TH

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

C-807-TH

TOOLS@HEIGHT™ PRY BARS - SCREWDRIVER TYPE

Comfort Grip Handles

Product Code	Size	Overall Length (inches)	Weight (lbs)
C-807-TH	3/8	12	0.67
C-812-TH	3/8	17	0.86
C-818-TH	1/2	25	1.9491

Features

Made in U.S.A.

- Blade is heat-treated the entire length
- Handle is ergonomically designed to provide a more comfortable and secure grip
- Curved blade style gives extra leverage
- Capped end allows for striking without damage to handl.

JHWPC-17-TH

TOOLS@HEIGHT™ 17 PIECE PUNCH & CHISEL SET

Packed in a Roll Pouch

Product Code	Description	Weight (lbs)
JHWPC-17-TH	17 Piece Punch & Chisel Set	4.93

Contents Include:

Product Code	Description	Point Diameter (Inches)	Product Code	Description	Blade Width (Inches)
JHWP-4-TH	Pin Punch	1/8	C-10-TH	Cold Chisel	5/16
JHWP-6-TH	Pin Punch	3/16	C-12-TH	Cold Chisel	3/8
JHWP-8-TH	Pin Punch	1/4	C-16-TH	Cold Chisel	1/2
JHWP-14-TH	Solid Punch	1/8	C-20-TH	Cold Chisel	5/8
JHWP-15-TH	Solid Punch	5/32	C-24-TH	Cold Chisel	3/4
JHWP-16-TH	Solid Punch	3/16	C-42-TH	Cape Chisel	1/4
JHWP-25-TH	Long Taper Punch	5/32	C-62-TH	Diamond Point Chisel	3/8
JHWP-28-TH	Long Taper Punch	1/4			
JHWP-32-TH	Prick Punch	-			
JHWP-40-TH	Center Punch	-			

Features

Made in U.S.A.

- Heavy duty construction for strength and durability.

TOOLS@HEIGHT™ COLD CHISELS

Heavy Duty Industrial Grade

Product Code	Stock Size	Blade Width (Inches)	Length (Inches)	Weight (lbs)
JHWC-10-TH	1/4	5/16	5	0.07
JHWC-12-TH	5/16	3/8	5 1/2	0.13
JHWC-15-TH	3/8	7/16	6	0.20
JHWC-16-TH	7/16	1/2	6	0.26
JHWC-20-TH	1/2	5/8	6 1/2	0.33
JHWC-24-TH	5/8	3/4	7	0.59
JHWC-32-TH	7/8	1	8	1.28

Features

- The most commonly used chisels in the chisel line
- For cutting, shaping and removing metal softer than the cutting edge of the chisel

Made in U.S.A.

JHWC-10-TH

TOOLS@HEIGHT™ CAPE CHISELS

Heavy Duty Industrial Grade

Product Code	Stock Size	Blade Width (Inches)	Length (Inches)	Weight (lbs)
JHWC-42-TH	3/8	1/4	5	0.15

Features

- Designed for cutting or grooving keyholes or slots

Made in U.S.A.

JHWC-42-TH

TOOLS@HEIGHT™ DIAMOND POINT CHISELS

Heavy Duty Industrial Grade

Product Code	Stock Size	Square Cut	Length (Inches)	Weight (lbs)
JHWC-62-TH	5/8	3/8	7	.56

Features

- Designed for making a V-groove in metal and to clean out inside corners

Made in U.S.A.

JHWC-62-TH

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

JHWP-4-TH

TOOLS@HEIGHT™ PIN PUNCHES

Heavy Duty Industrial Grade

Product Code	Stock Size	Point Diameter	Length (Inches)	Weight (lbs)
JHWP-4-TH	5/16	1/8	4 3/4	0.09
P-5-TH	5/16	5/32	5	0.10
JHWP-6-TH	5/16	3/16	5 1/4	0.15
JHWP-8-TH	3/8	1/4	5 3/4	0.17
JHWP-10-TH	7/16	5/16	6	0.24

Features

- For driving out and removing already loosened pins and keys after initial movement by a solid or starter punch

Made in U.S.A.

JHWP-16-TH

TOOLS@HEIGHT™ SOLID PUNCHES

Heavy Duty Industrial Grade

Product Code	Stock Size	Point Diameter	Length (Inches)	Weight (lbs)
JHWP-14-TH	3/8	1/8	5	0.15
JHWP-15-TH	3/8	5/32	5	0.15
JHWP-16-TH	3/8	3/16	5	0.16
JHWP-17-TH	1/2	1/4	5	0.16
JHWP-18-TH	3/8	7/32	5	0.15

Features

- For loosening frozen or tight pins and keys or knocking out rivets
- Also called starter punches because they are ideal for loosening frozen pins

Made in U.S.A.

JHWP-32-TH

TOOLS@HEIGHT™ PRICK PUNCHES

Heavy Duty Industrial Grade

Product Code	Stock Size	Length (Inches)	Weight (lbs)
JHWP-32-TH	1/2	6	.28

Features

- For scribing lines into metal before cutting or riveting, and for punching starting holes for short metal screws
- Point is more tapered than center punch

Made in U.S.A.

JHWP-40-TH

TOOLS@HEIGHT™ CENTER PUNCHES

Heavy Duty Industrial Grade

Product Code	Stock Size	Blade Width (Inches)	Weight (lbs)
JHWP-38-TH	1/4	4	.05
JHWP-39-TH	5/16	4 1/2	.08
JHWP-40-TH	3/8	5	.09
JHWP-42-TH	1/2	6	.07

Features

- Pierces or marks work by indentation for starting pilot drills in metal or other materials

Made in U.S.A.

TOOLS@HEIGHT™ LONG TAPER PUNCHES

Heavy Duty Industrial Grade

Product Code	Stock Size	Point Diameter	Length (Inches)	Weight (lbs)
JHWP-25-TH	3/8	5/32	9	0.25
JHWP-28-TH	5/8	1/4	12	0.82
JHWP-28A-TH	3/4	1/4	15	1.50

Features

- Designed for aligning the holes in metal pieces through which rivets, bolts, or screws will be inserted
- Not intended for driving pins as punch may become stuck in work
- Also called line-up aligning or drift punches

Made in U.S.A.

JHWP-25-TH

TOOLS@HEIGHT™ PUNCH AND CHISEL HOLDER

Comfort Grip Handle

Product Code	Description	Weight (lbs)
28449-TH	7/8	0.50

Features

- Holds chisel and punch securely
- Protect user from hand injury

Made in U.S.A.

28449-TH

TOOLS@HEIGHT™ PINCH BARS

Heavy Duty Industrial Grade

Product Code	Overall Length (Inches)	Stock Size	Width of Flat (Inches)	Weight (lbs)
JHWC-83-TH	19 5/8	3/4	7/8	2.32
JHWC-84-TH	30	7/8	1	5.0

Features

- Used for aligning, prying and positioning

Made in U.S.A.

JHWC-83-TH

TOOLS@HEIGHT™ SUPERIOR HANDSAWS WITH XT TOOTHING

ERGO® handle - Unique XT toothing - Low Friction Coating

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)	Type of cut	Weight (lbs)
2700-24-XT7-HP-TH	24	7	Aggressive	1.24

Features

- Hard point saw with substantially thicker blade which results in less power-consuming side vibrations
- Bevel ground teeth on thick blade for height precision and straight cutting with exceptionally good stability
- Screwed, one piece two-component Ergo® handle
- Handle placement provides even distribution of power along the tooth line
- Comes with reusable plastic patented tooth protector

2700-24-XT7-HP-TH

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

319-TH

TOOLS@HEIGHT™ PROFESSIONAL HAND HACKSAW

Non-Slip Handles Ensures a Solid and Secure Grip.

Product Code	Description	Blade Length (Inches)	Weight (lbs)
319-TH	Professional Hand Hacksaw	12	1.26

Features

- Alternative 55° blade mounting for flush cutting
- Offers a strong steel frame that is covered with a protective dual component plastic
- Comfortable, non-slip back handle and front grip ensures a solid, secure grip
- Tension mechanism is fully integrated into the handles so there is no obstruction during use
- Supplied with reliable and shatterproof 12 inch bi-metal blade, 24 TPI.

225-PLUS-3906-TH

TOOLS@HEIGHT™ TRADITIONAL HAND HACKSAW

Heavy Duty Frame with Blade Storage

Product Code	Description	Blade Length (Inches)	Weight (lbs)
225-PLUS-3906-TH	Traditional Hand Hacksaw	12	1.48

Features

- Allows very high blade tension for accurate and fast cuts
- Strong rectangular back section for blade storage with easy-to-handle retaining screws
- Can also be used as a compass saw
- Alternative 55° blade mounting for flush cutting
- Supplied with reliable and shatterproof 12 inch bi-metal blade, 24 TPI.

JHW40000-TH

TOOLS@HEIGHT™ GASKET SCRAPER

Bi-Mold Comfort Grip Handle

Product Code	Blade Length (Inch)	Overall Length	Blade Width	Weight (lbs)
JHW40000-TH	6	9 3/4	7/8	.32

Features

- Bi-mold handle provides comfortable grip, reducing hand fatigue
- Ideal for gasket removal and cleaning rust and corrosion.

TOOLS@HEIGHT™ 6 PIECE ENGINEERING FILE SET

Product Code	Description
1-476-04-3-2-TH	6 Piece Engineering File Set

Plastic Handled Files
Contents Include:

Description	Length (Inch)	Type of Cut	Weight (lbs)
Hand Smooth	4	Smooth	.15
Warding Smooth	4	Smooth	.15
Square Smooth	4	Smooth	.15
Three Square Smooth	4	Smooth	.15
Half Round Smooth	4	Smooth	.15
Round Smooth	4	Smooth	.15

Features
- Files are smooth, double cut and designed for the fine filing and polishing applications
- Supplied with pouch
- For use with optional THUNIRET1A Retractable Lanyard

1-476-04-3-2

TOOLS@HEIGHT™ MILL FILE (USA TYPE)-TWO FLAT EDGES

Engineering File With Bi-Molded ERGO® Handle

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut	Weight (lbs)
1-143-08-1-2-TH	8	25/32	1/8	44	Bastard	.31

Features
- Surfaces and edges are single cut
- Suitable for engineering and sharpening file applications
- Can be used for polishing and deburring work in lathes
- Widely used for sharpening tools and implements such as spades, shovels, hoes, scrapers, etc.

1-143-08-1-2-TH

TOOLS@HEIGHT™ ROUND FILE

Engineering File With Bi-Molded ERGO® Handle

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut	Weight (lbs)
1-230-08-2-2-TH	8	5/16	-	36	Second	.25

Features
- Regularly used for filing holes, large fillets and concave surfaces. File is tapered to a point and has a double cut.

1-230-08-2-2-TH

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

TOOLS@HEIGHT™ MAGNETIC PICK-UP TOOL WITH LIGHT

Product Code	Description	Extended Length (Inches)	Weight (lbs)
2535L-TH	Magnetic Pick-up Tool with Light	30	.23

Features

- Wide area lighting
- Soft grip handle
- Powerful magnetic tip
- Pick-up weight is 1 1/4 pounds

TOOLS@HEIGHT™ FEELER GAUGE SET

Heavy Duty Machine Shop Tools

Product Code	Description	Thickness	Number of Blades	Weight (lbs)
JHWGS-1-TH	Master Feeler Gauge Set	.0015 - 1/32	25	.19

Features

- 25 blades 3-5/16" x 1/2" in the following thicknesses: .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .018, .020, .022, .024, .025, .028, .030, .032, and .035.
- Both decimal and equivalent metric size etched in each blade
- Gauges supplied in holder with knurled lock-nut which allows the user to select the required blade size and lock it into position

Product Code	Description	Thickness	Number of Blades	Weight (lbs)
JHWGS-3-TH	Combination Feeler Gauge Set	.002 - .025	22	.11

Features

- Contains total of 22 blades
- 10 blades 3" x 1/2" in the following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .013, .015.
- 12 blades 1-3/4" x 1/4" in the following thicknesses: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, .025.
- Overall length 5"
- Both decimal and equivalent metric size etched in each blade
- Gauges supplied in holder with knurled lock-nut which allows the user to select the required blade size and lock it into position

Made in U.S.A.

TOOLS@HEIGHT™ AVIATION SNIPS

Bi-Mold Comfort Grip Handles

Product Code	Cutting Direction	Overall Length (Inches)	Cut Length (Inches)	Cutting Capacity (cold-rolled/stainless)	Weight (lbs)
JHW28201-TH	Left	9 3/4	1 3/8	18 ga.CR / 22 ga.SS	.93
JHW28203-TH	Right	9 3/4	1 3/8	18 ga.CR / 22 ga.SS	.93
JHW28205-TH	Straight	9 13/16	1 1/2	18 ga.CR / 22 ga.SS	.96

Features

- Color-coded handles help quickly identify the cutting direction
- Bi-mold handles provide comfortable grip, reduces hand fatigue
- Meet ANSI and DIN standards

TOOLS@HEIGHT™ TORPEDO LEVEL

Product Code	Description
THFSN25100	10" Magnetic Torped Level

Features
- Big, bright easy to read vials
- Heavy-duty, die-cast frame
- Certified Level accuracy; in top read position: (1/32" over 72")
- Level accuracy guaranteed for life; vials will never fog, leak or require adjustment
- Ideal for scaffolding as well as general construction and maintenance

THFSN25100

TOOLS@HEIGHT™ TAPE MEASURE

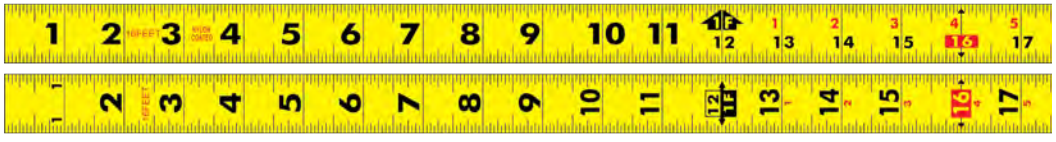
Construction Grade Tape Rule

Product Code	Blade Length (Width and Length Inch)	Weight (lbs.)
JHWTM25X1-TH	1 x 25	0.85
JHWTM16X1-TH	1 x 16	1.00

Features
- Measurements on both sides of the blade
- Auto lock feature
- Triple riveted stainless steel magnetic hook on the end of the blade

JHWTM16X1-TH

Measurements on both sides of the blade


TOP

BOTTOM

TOOLS@HEIGHT™ INSPECTION MIRROR

Product Code	Description
IM1-TH	Tools@Height Tether-Ready Inspection Mirror

Features
- Installed safety-coil can be tethered to prevent dropping
- Hinged rectangular glass mirror
- Mirror is 1-3/16" x 1-1/2"

IM1-TH

TOOLS@HEIGHT™ GREASE GUN

Product Code	Description
THYA728A	Tools@Height Tether-Ready Grease Gun

Features
- Lever-operated large capacity gun develops 6,000 PSI
- Accepts 16 oz. bulk or 14-1/4 oz. cartridge grease
- Includes 18" flexible whip hose with coupler and 6" rigid extension

THYA728A

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

DR1X3.5-10PK
Max Load: 5 pounds

DR5X22510PK
Max Load: 2 pounds

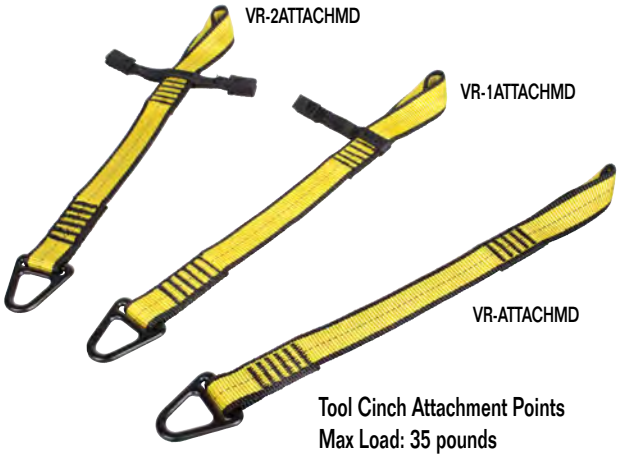
DR5X225NC10PK
Max Load: 2 pounds

D-RINGS

Product Code	Description	Quantity
DR5X22510PK	D-Ring 0.5" X 2.25"	10
DR5X225100PK	D-Ring 0.5" X 2.25"	100
DR5X225NC10P	D-Ring 0.5" X 2.25" Non-Conductive	10
DR5X225NC100	D-Ring 0.5" X 2.25" Non-Conductive	100
DR1X3.5-10PK	D-Ring 1" X 3.5"	10
DR1X3.5-50PK	D-Ring 1" X 3.5"	50

Features

- D-Rings combined with Quick Wrap Tape can create attachment points on tools that are otherwise impossible to tether
- Non-conductive variant also available (DR5X225NC10PK)
- Third-party load rated for 5 pounds and 2 pounds



Tool Cinch Attachment Points
Max Load: 35 pounds

TOOL CINCH ATTACHMENTS

Product Code	Description	Quantity
VRATTHMD10PK	Tool Cinch Medium Duty	10
VR1ATTMD10PK	Tool Cinch Single Wing Medium Duty	10
VR2ATTMD10PK	Tool Cinch Dual Wing Medium Duty	10

Features

- Patent-pending Tool Cinch Attachment Points are third-party load rated for 35 pounds.
- The VR-1ATTACHMD and VR-2ATTACHMD feature stabilization wings that can be taped down using Quick Wrap Tape to create a strong connection that won't slide off a tool.
- With a Tool Cinch, it's possible to create attachment points on heavy, difficult to tether tools and equipment.
- The VR-ATTACHMD is perfect for tools with closed handles, or pre-drilled holes.
- The VR-1ATTACHMD is designed to be used with tools that do not have pre-drilled holes or closed handles. It can even be used on tools with triggers such as grinders, bandsaws, or drills.
- The VR-2ATTACHMD is intended to be used on long cylindrical tools where there is at least 5.5 inches of space available for the stabilization wings to be taped down.

QS-XL QS-L QS-M QS-S

QS-PCOIL

QUICK SPINS

Product Code	Diameter (Inches)	Load Rating (Pounds)	Quantity
QS-S-10PK	0.6	1	10
QS-M-10PK	0.8	1	10
QS-L-10PK	1	1	10
QS-XL-10PK	1.2	1	10
QS-P-10PK	0.3	No Rated	10
QSPCOIL-10PK	0.3	No Rated	10
QS-PM-10PK	0.5	No Rated	10
QSPMCOIL10PK	0.5	No Rated	10

Features

- The unique, patented Quick Spins accommodate a wide selection of tools, making them tether-ready in seconds
- Reusable, and suitable for non-conductive use, the tangle-resistant spin tops make Quick Spins an outstanding drop prevention solution that doesn't deface tools
- Body is made from a Thermoplastic Rubber and Polyester material (TPU), while the spin tops are made of polyacetal and black carbon (POM)

Any tool that weighs more than 5 pounds should be attached to an anchor point such as a work platform or utility bucket rather than the operator.

QUICK WRAP TAPE

Product Code	Length (Inches)	Width (Inches)	Color	Quantity
QWHDBLU110PK	108	1	Blue	10
QWHDYLW110PK	108	1	Yellow	10

Features
- Quick Wrap Tape is made from a self-fusing silicone rubber, and features inner fiberglass webbing reinforcement.
- Quick Wrap Tape is intended to be used with D-Rings and Tool Cinch Attachment Points.

QW-HDYLW1

HEAT SHRINK

Product Code	Length (Inches)	Diameter (Inches)	Quantity
PYT1500019	1.75	0.75	25
HS1X175-25PK	1.75	1	25
HS1.5X2-25PK	2	1.5	25
HS-2X4-10PK	4	2	10
HS-3X4-10PK	4	3	10

Features
- Heat Shrink is used to create an even stronger connection that is more resistant to abrasives and harsh environments
- Links shrink 300% in size, while an inner adhesive securely fastens itself to whatever is being wrapped.

Tools not included

Tape is always used with D-Rings and cinches.
Heat Shrink is added to make a more durable surface

D-RING CORD

Product Code	Load Rating (Pounds)	Quantity
DR-CORD-10PK	5	10

Features
- The D-Ring cord (patent pending) easily cinches to tools weighing under 5 pounds, creating an instant attachment point for many tools

Tools not included

DR-CORD

MICRO D-RING

Product Code	Quantity
DR-MICRO10PK	10

Features
- The Micro D-Ring is an attachment point that can be used on small tools and equipment that are otherwise not possible to tether.
- The DR-MICRO is a flexible piece of ballistic plastic that can conform to the shape of many objects. A piece of industrial grade double-sided adhesive tape sticks to the bottom of the Micro D-Ring, allowing it to be attached to a clean surface.

EXT-C2LCOIL (see page 92)
Phone not included.
DR-MICRO

⚠WARNING Be sure to use a lanyard that has more weight capacity than the tool you are attaching because drop forces are greater than actual tool weight.

WRENCHES

COMBINATION 142
RATCHETING COMBINATION 154
DOUBLE HEAD OPEN END 162
BOX END 170
FLARE NUT 174
ADJUSTABLE 176
STRUCTURAL 178
TUBULAR 180
STRIKING 182
HEX KEY 187

WILLIAMS®

ADJUSTABLE WRENCHES

TRUE ERGO™ DESIGN

with thermoplastic handle and larger grip width

Precision hardened and anti-corrosion treated

Measurement scale on head conveniently shows fastener size

Slim head with tapered jaws combine easy accessibility with extra turning strength

TUBULAR WRENCHES

Unique, versatile design allows wrench to be used with or without optional handles to quickly run down nuts

Handle can be attached to provide maximum turning power for final tightening or to reach otherwise inaccessible fasteners

A detent on the wrench shaft helps to align locking button with handle hole

Offset box wrench head provides turning clearance

Straight box wrench head provides access when clearance is limited

WRENCHES

NOT JUST HEAVY-DUTY. INDUSTRIAL DUTY.

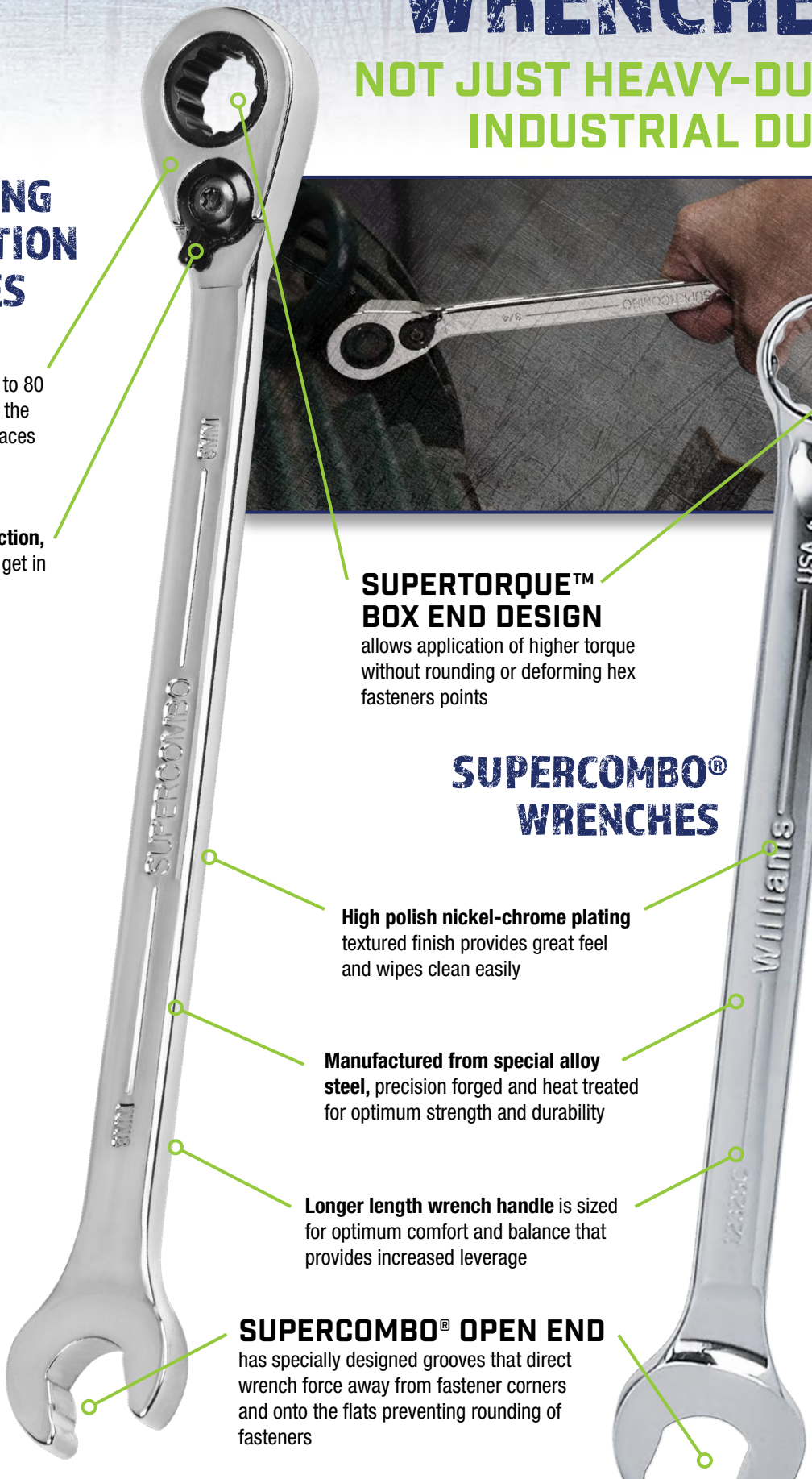
RATCHETING COMBINATION WRENCHES

Ratcheting gear up to 80 teeth that minimizes the swing arc in tight spaces

Low profile, easy action, reverse lever won't get in your way

SUPERTORQUE™ BOX END DESIGN
allows application of higher torque without rounding or deforming hex fasteners points

SUPERCOMBO® WRENCHES



High polish nickel-chrome plating textured finish provides great feel and wipes clean easily

Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability

Longer length wrench handle is sized for optimum comfort and balance that provides increased leverage

SUPERCOMBO® OPEN END
has specially designed grooves that direct wrench force away from fastener corners and onto the flats preventing rounding of fasteners

SUPERCOMBO® COMBINATION WRENCHES

High Polish Chrome and Satin Chrome Finish, 12 Point, SAE

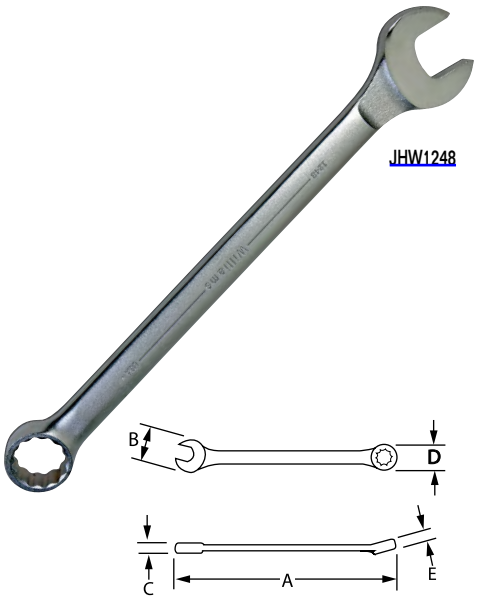
Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW1208SC +	1/4	4 1/4	9/16	1/8	13/32	3/16
JHW1210SC +	5/16	5 3/4	11/16	5/32	1/2	7/32
JHW1211SC +	11/32	6 1/4	3/4	3/16	9/16	1/4
JHW1212SC++	3/8	6 1/2	13/16	3/16	9/16	1/4
JHW1214SC++	7/16	7 1/4	15/16	7/32	11/16	9/32
JHW1216SC++	1/2	8	1 1/16	1/4	3/4	11/32
JHW1218SC++	9/16	8 3/4	1 1/4	1/4	7/8	3/8
JHW1220SC++	5/8	9 1/2	1 3/8	9/32	15/16	13/32
JHW1222SC++	11/16	10 1/4	1 1/2	5/16	1 1/32	7/16
JHW1224SC++	3/4	11	1 5/8	5/16	1 1/8	1/2
JHW1226SC++	13/16	11 3/4	1 3/4	3/8	1 7/32	17/32
JHW1228SC++	7/8	12 1/2	1 7/8	13/32	1 5/16	9/16
JHW1230SC++	15/16	13 1/4	2	7/16	1 3/8	19/32
JHW1232SC++	1	14	2 1/8	15/32	1 15/32	5/8
JHW1234SC++	1 1/16	14 3/4	2 1/4	1/2	1 9/16	21/32
JHW1236SC++	1 1/8	15 1/2	2 13/32	17/32	1 21/32	11/16
JHW1238SC++	1 3/16	16 1/4	2 17/32	17/32	1 23/32	3/4
JHW1240SC++	1 1/4	17	2 21/32	9/16	1 13/16	3/4
JHW1242 **	1 5/16	17 3/4	2 13/16	19/32	1 29/32	3/4
JHW1244 **	1 3/8	18 1/2	2 15/16	5/8	2	3/4
JHW1246 **	1 7/16	19 1/4	3 1/16	5/8	2 3/32	7/8
JHW1248 **	1 1/2	20 1/32	3 3/16	11/16	2 3/16	7/8
JHW1178A **	1 9/16	20 25/32	3 3/16	21/32	2 1/4	7/8
JHW1180 **	1 5/8	21 1/2	3 5/16	11/16	2 11/32	7/8
JHW1182 **	1 11/16	22 9/32	3 7/16	23/32	2 7/16	7/8
JHW1184 **	1 3/4	22 7/8	3 9/16	23/32	2 17/32	1 1/32
JHW1186 **	1 13/16	23 15/32	3 11/16	3/4	2 5/8	1 1/32
JHW1188 **	1 7/8	24 1/32	3 13/16	25/32	2 23/32	1 1/32
JHW1190 **	2	25 1/4	4 1/16	27/32	2 7/8	1 1/32
JHW1191 **	2 1/16	25 13/16	4 3/16	27/32	2 31/32	1 5/32
JHW1192 **	2 1/8	26 3/8	4 5/16	7/8	3 1/16	1 5/32
JHW1193 **	2 3/16	26 31/32	4 7/16	29/32	3 5/32	1 5/32
JHW1194 **	2 1/4	27 9/16	4 9/16	15/16	3 7/32	1 5/32
JHW1195 **	2 3/8	28 3/4	4 13/16	31/32	3 13/32	1 9/32
JHW1197 **	2 1/2	29 29/32	5 1/16	1 1/32	3 19/32	1 9/32
JHW1198 *	2 5/8	32	6 5/8	1 7/32	4 7/8	1 5/8
JHW1198A *	2 3/4	32	6 5/8	1 7/32	4 7/8	1 5/8
JHW1198B *	2 7/8	32	6 5/8	1 7/32	4 7/8	1 5/8
JHW1198C *	2 15/16	32	6 5/8	1 7/32	4 7/8	1 5/8
JHW1199 *	3	32	6 5/8	1 7/32	4 7/8	1 5/8
JHW1199A *	3 1/8	32	6 5/8	1 7/32	4 7/8	1 5/8
JHW1199B *	3 3/8	31 3/8	6 5/8	1 7/32	4 7/8	1 5/8
JHW1199C *	3 1/2	31 29/32	6 5/8	1 7/32	4 7/8	1 5/8

+ High Polish Chrome Finish with SUPERTORQUE™ Box End.
++ High Polish Chrome Finish with SUPERCOMBO® Open End and SUPERTORQUE™ Box End.
** Satin Chrome Finish with SUPERTORQUE™ Box End and Standard Open End.
* Satin Chrome Finish with Standard Open and Box Ends.
Fed. Spec.: ANSI B107.6; SAE AS 954

Features

- SUPERCOMBO® open end has specially designed grooves that direct wrench force away from fastener corners
- SUPERTORQUE™ box opening design allows application of higher torque without rounding or deforming hex fastener points
- No contact is made at the corners
- Instead, wrenching forces are placed on the flat surfaces behind the points
- Meets or exceeds aerospace specification AS 954 for 12 point fasteners (as defined by AS 870) to provide accurate torque/tension relationship for precision application
- May be used on all common hex (6 point) fasteners with considerable advantage over conventional box end wrenches to increase both hand tool flexibility and economy
- Box and open end openings are identical

Made in U.S.A.



WARNING

JHWWS1170SCA

JHWWS1171SCA

JHWWS-1175

SUPERCOMBO® WRENCH SETS

High Polish Chrome and Satin Chrome Finish, 12 Point, SAE

Contents Include: JHWWS1170SCA, JHWWS1171SCA, JHWWS1172SCA, JHWWS1190SCA, JHWWS-1174TA, JHWWS-1175, JHWWS-1176, JHWWS1191SC

Product Code	Size (Inches)	7-Piece Set in Pouch	11-Piece Set in Pouch	15-Piece Set in Pouch	26-Piece Set	10-Piece Set	6-Piece Set	16-Piece Set	32-Piece Set
JHW1208SC	1/4				X				X
JHW1210SC	5/16			X	X				X
JHW1212SC	3/8	X	X	X	X				X
JHW1214SC	7/16	X	X	X	X				X
JHW1216SC	1/2	X	X	X	X				X
JHW1218SC	9/16	X	X	X	X				X
JHW1220SC	5/8	X	X	X	X				X
JHW1222SC	11/16	X	X	X	X				X
JHW1224SC	3/4	X	X	X	X				X
JHW1226SC	13/16		X	X	X				X
JHW1228SC	7/8		X	X	X				X
JHW1230SC	15/16		X	X	X				X
JHW1232SC	1		X	X	X				X
JHW1234SC	1 1/16			X	X				X
JHW1236SC	1 1/8			X	X				X
JHW1240SC	1 1/4			X	X				X
JHW1242	1 5/16				X	X		X	X
JHW1244	1 3/8				X	X		X	X
JHW1246	1 7/16				X	X		X	X
JHW1248	1 1/2				X	X		X	X
JHW1180	1 5/8				X	X		X	X
JHW1182	1 11/16				X	X		X	X
JHW1184	1 3/4				X	X		X	X
JHW1186	1 13/16				X	X		X	X
JHW1188	1 7/8				X	X		X	X
JHW1190	2				X	X		X	X
JHW1191	2 1/16						X	X	X
JHW1192	2 1/8						X	X	X
JHW1193	2 3/16						X	X	X
JHW1194	2 1/4						X	X	X
JHW1195	2 3/8						X	X	X
JHW1197	2 1/2						X	X	X

Made in U.S.A.

JHWWS-1174TA

JHWWS1172SCA

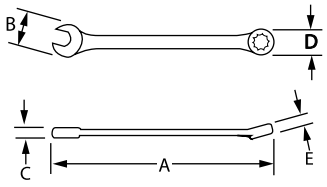
JHWWS1190SCA

SUPERCOMBO® COMBINATION WRENCHES

High Polished Chrome Finish, 6 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW608SC	1/4	4 1/4	9/16	1/8	13/32	3/16
JHW612SC	3/8	6 1/2	13/16	3/16	9/16	1/4
JHW614SC	7/16	7 1/4	15/16	7/32	11/16	9/32
JHW616SC	1/2	8	1 1/16	1/4	3/4	11/32
JHW618SC	9/16	8 3/4	1 1/4	1/4	7/8	3/8
JHW620SC	5/8	9 1/2	1 3/8	9/32	15/16	13/32
JHW622SC	11/16	10 1/4	1 1/2	5/16	1 1/32	7/16
JHW624SC	3/4	11	1 5/8	5/16	1 1/8	1/2
JHW626SC	13/16	11 3/4	1 3/4	3/8	1 7/32	17/32
JHW628SC	7/8	12 1/2	1 7/8	13/32	1 5/16	9/16
JHW630SC	15/16	13 1/4	2	7/16	1 3/8	19/32
JHW632SC	1	14	2 1/8	15/32	1 15/32	5/8
JHW640SC	1 1/4	17	2 21/32	9/16	1 13/16	3/4

JHW616SC



JHWWS-SC11
11 Piece SUPERCOMBO® Wrench Set, SAE

Contents Include:

Product Code:	Size (Inches)	Product Code:	Size (Inches)	Product Code:	Size (Inches)
JHW612SC	3/8	JHW614SC	7/16	JHW616SC	1/2
JHW618SC	9/16	JHW620SC	5/8	JHW622SC	11/16
JHW624SC	3/4	JHW626SC	13/16	JHW628SC	7/8
JHW630SC	15/16	JHW632SC	1		

Features

- SUPERCOMBO® open end has specially designed grooves that direct wrench force away from fastener corners
- SUPERTORQUE™ box opening design allows application of higher torque without rounding or deforming hex fastener points
- No contact is made at the corners, instead wrenching forces are placed on the flat surfaces behind the points
- High polish chrome textured finish provides great feel and wipes clean easily

Made in U.S.A.

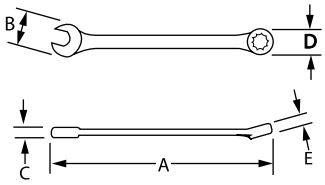
JHWWS-SC11

WARNING

OFFSET COMBINATION WRENCHES

High Polish Chrome Finish, 12 Point Offset Box End, SAE

JHW11954



Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW11950	1/4	3 3/4	9/16	5/32	13/32	5/32
JHW11951	5/16	4 1/2	11/16	3/16	1/2	7/32
JHW11970	11/32	5	25/32	3/16	17/32	1/4
JHW11952	3/8	5	25/32	3/16	9/16	1/4
JHW11953	7/16	5 3/4	15/16	3/16	5/8	1/4
JHW11954	1/2	6 3/4	1 1/8	7/32	23/32	5/16
JHW11955	9/16	7 1/4	1 7/32	1/4	13/16	3/8
JHW11956	5/8	8 1/8	1 3/8	1/4	29/32	3/8
JHW11957	11/16	8 3/4	1 7/16	9/32	31/32	13/32
JHW11958	3/4	9 5/8	1 5/8	5/16	1 1/16	15/32
JHW11959	13/16	10 1/2	1 21/32	5/16	1 5/32	15/32
JHW11960	7/8	10 1/2	1 7/8	11/32	1 9/32	1/2
JHW11961	15/16	11 3/4	2 1/32	11/32	1 11/32	9/16
JHW11962	1	13	2 5/32	11/32	1 7/16	19/32
JHW11963	1 1/16	13	2 9/32	3/8	1 17/32	5/8
JHW11964	1 1/8	14 1/2	2 13/32	3/8	1 19/32	11/16
JHW11965	1 1/4	15 1/4	2 21/32	7/16	1 25/32	23/32
JHW11966	1 5/16	16 1/4	2 13/16	15/32	1 7/8	25/32
JHW11967	1 3/8	16 3/8	2 13/16	15/32	1 7/8	25/32
JHW11968	1 7/16	17	3 1/16	9/16	2 1/8	7/8
JHW11969	1 1/2	17	3 1/16	17/32	2 3/32	27/32

JHW11990

9 Piece Offset Combination Wrench Set, 12 Point, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW11952	3/8	JHW11955	9/16	JHW11958	3/4
JHW11953	7/16	JHW11956	5/8	JHW11959	13/16
JHW11954	1/2	JHW11957	11/16	JHW11960	7/8

Features

- Unique 15° offset box end provides extra knuckle clearance
- High-polished chrome finish cleans easily
- 12 point box end provides maximum versatility
- Recessed corners in box end provide extra turning power
- Includes pouch

JHW11990

SUPERCOMBO® COMBINATION WRENCHES

Black Industrial Finish, 12 Point, SAE

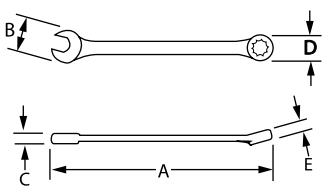
Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW1210BSC +	5/16	5 3/4	11/16	5/32	1/2	7/32
JHW1212BSC ++	3/8	6 1/2	13/16	3/16	9/16	1/4
JHW1214BSC ++	7/16	7 1/4	15/16	7/32	11/16	9/32
JHW1216BSC ++	1/2	8	1 1/16	1/4	3/4	11/32
JHW1218BSC ++	9/16	8 3/4	1 1/4	1/4	7/8	3/8
JHW1220BSC ++	5/8	9 1/2	1 3/8	9/32	15/16	13/32
JHW1222BSC ++	11/16	10 1/4	1 1/2	5/16	1 1/32	7/16
JHW1224BSC ++	3/4	11	1 5/8	5/16	1 1/8	1/2
JHW1226BSC ++	13/16	11 3/4	1 3/4	3/8	1 7/32	17/32
JHW1228BSC ++	7/8	12 1/2	1 7/8	13/32	1 5/16	9/16
JHW1230BSC ++	15/16	13 1/4	2	7/16	1 3/8	19/32
JHW1232BSC ++	1	14	2 1/8	15/32	1 15/32	5/8
JHW1234BSC ++	1 1/16	14 3/4	2 1/4	1/2	1 9/16	21/32
JHW1236BSC ++	1 1/8	15 1/2	2 13/32	17/32	1 21/32	11/16
JHW1240BSC ++	1 1/4	17	2 21/32	9/16	1 13/16	3/4
JHW1242B **	1 5/16	17 3/4	2 13/16	19/32	1 29/32	3/4
JHW1244B **	1 3/8	18 1/2	2 15/16	5/8	2	3/4
JHW1246B **	1 7/16	19 1/4	3 1/16	5/8	2 3/32	7/8
JHW1248B **	1 1/2	20 1/32	3 3/16	11/16	2 3/16	7/8
JHW1178AB **	1 9/16	20 25/32	3 3/16	21/32	2 1/4	7/8
JHW1180B **	1 5/8	21 1/2	3 5/16	11/16	2 11/32	7/8
JHW1182B **	1 11/16	22 9/32	3 7/16	23/32	2 7/16	7/8
JHW1184B **	1 3/4	22 7/8	3 9/16	23/32	2 17/32	1 1/32
JHW1186B **	1 13/16	23 15/32	3 11/16	3/4	2 5/8	1 1/32
JHW1188B **	1 7/8	24 1/32	3 13/16	25/32	2 23/32	1 1/32
JHW1190B **	2	25 1/4	4 1/16	27/32	2 7/8	1 1/32
JHW1191B **	2 1/16	25 13/16	4 3/16	27/32	2 31/32	1 5/32
JHW1192B **	2 1/8	26 3/8	4 5/16	7/8	3 1/16	1 5/32
JHW1193B **	2 3/16	26 31/32	4 7/16	29/32	3 5/32	1 5/32
JHW1194B **	2 1/4	27 9/16	4 9/16	15/16	3 7/32	1 5/32
JHW1195B **	2 3/8	28 3/4	4 13/16	31/32	3 13/32	1 9/32
JHW1197B **	2 1/2	29 29/32	5 1/16	1 1/32	3 19/32	1 9/32
JHW1198BL *	2 5/8	32	6 5/8	1 7/32	4 7/8	1 5/8
JHW1198ABL *	2 3/4	32	6 5/8	1 7/32	4 7/8	1 5/8
JHW1198BBL *	2 7/8	32	6 5/8	1 7/32	4 7/8	1 5/8
JHW1198CBL *	2 15/16	32	6 5/8	1 7/32	4 7/8	1 5/8
JHW1199BL *	3	32	6 5/8	1 7/32	4 7/8	1 5/8
JHW1199ABL *	3 1/8	32	6 5/8	1 7/32	4 7/8	1 5/8
JHW1199BBL *	3 3/8	31 29/32	6 5/8	1 7/32	4 7/8	1 5/8
JHW1199CBL *	3 1/2	31 29/32	6 5/8	1 7/32	4 7/8	1 5/8

+ Black Industrial Finish with SUPERTORQUE™ Box End
++ Black Industrial Finish with SUPERCOMBO® Open End and SUPERTORQUE™ Box End
** Black Industrial Finish with SUPERTORQUE™ Box End and standard open end
* Satin Chrome Finish with Standard Open and Box Ends
Fed. Spec.: ANSI B107.6; SAE AS 954

Features

- SUPERCOMBO® open end has specially designed grooves that direct wrench force away from fastener corners
- SUPERTORQUE™ box opening design allows application of higher torque without rounding or deforming hex fastener points
- No contact is made at the corners
- Instead, wrenching forces are placed on the flat surfaces behind the points
- Meets or exceeds aerospace specification AS 954 for 12 point fasteners (as defined by AS 870) to provide accurate torque/tension relationship for precision application
- May be used on all common hex (6 point) fasteners with considerable advantage over conventional box end wrenches to increase both hand tool flexibility and economy
- Box and open end openings are identical

Made in U.S.A.



WARNING

JHWWS1170BSC

JHWWS1171BSC

JHWWS1172BSC

SUPERCOMBO® WRENCH SETS

Black Industrial Finish, 12 Point, SAE
Set Contents

Product Code	Size (Inches)	JHWWS1170BSC 7-Piece Set in Pouch	JHWWS1171BSC 11-Piece Set in Pouch	JHWWS1172BSC 15-Piece Set in Pouch	JHWWS1190BSC 26-Piece Set	JHWWS1174BTA 11- Piece Set
JHW1210BSC	5/16			X	X	
JHW1212BSC	3/8	X	X	X	X	
JHW1214BSC	7/16	X	X	X	X	
JHW1216BSC	1/2	X	X	X	X	
JHW1218BSC	9/16	X	X	X	X	
JHW1220BSC	5/8	X	X	X	X	
JHW1222BSC	11/16	X	X	X	X	
JHW1224BSC	3/4	X	X	X	X	
JHW1226BSC	13/16		X	X	X	
JHW1228BSC	7/8		X	X	X	
JHW1230BSC	15/16		X	X	X	
JHW1232BSC	1		X	X	X	
JHW1234BSC	1 1/16			X	X	
JHW1236BSC	1 1/8			X	X	
JHW1240BSC	1 1/4			X	X	
JHW1242B	1 5/16				X	X
JHW1244B	1 3/8				X	X
JHW1246B	1 7/16				X	X
JHW1248B	1 1/2				X	X
JHW1178AB	1 9/16				X	X
JHW1180B	1 5/8				X	X
JHW1182B	1 11/16				X	X
JHW1184B	1 3/4				X	X
JHW1186B	1 13/16				X	X
JHW1188B	1 7/8				X	X
JHW1190B	2				X	X

Made in U.S.A.

JHWWS1174BTA

JHWWS1190BSC

SUPERCOMBO® COMBINATION WRENCHES

High Polish Chrome Finish, 12 Point, Metric

Product Code	Size (MM)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW1206MSC +	6	4 27/32	9/16	1/8	13/32	3/16
JHW1207MSC ++	7	5 5/16	5/8	5/32	15/32	7/32
JHW1208MSC ++	8	5 25/32	23/32	5/32	1/2	7/32
JHW1209MSC ++	9	6 9/32	13/16	3/16	9/16	1/4
JHW1210MSC ++	10	6 3/4	7/8	3/16	5/8	9/32
JHW1211MSC ++	11	7 1/4	31/32	7/32	11/16	5/16
JHW1212MSC ++	12	7 11/16	1 1/32	7/32	3/4	5/16
JHW1213MSC ++	13	8 1/32	1 1/8	1/4	25/32	11/32
JHW1214MSC ++	14	8 5/8	1 7/32	1/4	27/32	3/8
JHW1215MSC ++	15	9 3/32	1 9/32	9/32	29/32	13/32
JHW1216MSC ++	16	9 1/2	1 3/8	9/32	15/16	13/32
JHW1217MSC ++	17	10 1/16	1 15/32	5/16	1	7/16
JHW1218MSC ++	18	10 17/32	1 17/32	5/16	1 1/16	15/32
JHW1219MSC ++	19	11 1/32	1 5/8	11/32	1 1/8	1/2
JHW1220MSC ++	20	11 1/2	1 23/32	3/8	1 3/16	1/2
JHW1221MSC ++	21	11 25/32	1 3/4	3/8	1 7/32	17/32
JHW1222MSC ++	22	12 1/2	1 29/32	13/32	1 5/16	9/16
JHW1223MSC ++	23	12 7/8	1 31/32	7/16	1 11/32	9/16
JHW1224MSC ++	24	13 9/32	2	7/16	1 3/8	19/32
JHW1225MSC ++	25	14 1/32	2 5/32	15/32	1 15/32	5/8
JHW1226MSC +	26	14 5/16	2 3/16	1/2	1 1/2	21/32
JHW1227MSC +	27	14 25/32	2 9/32	1/2	1 9/16	11/16
JHW1229MSC +	29	15 17/32	2 13/32	17/32	1 21/32	23/32
JHW1230MSC +	30	16 9/32	2 17/32	17/32	1 3/4	3/4
JHW1232MSC +	32	17 1/32	2 11/16	9/16	1 13/16	3/4
JHW1234MSC +	34	17 25/32	2 13/16	19/32	1 29/32	3/4
JHW1236MSC +	36	19 9/32	3 1/16	21/32	2 3/32	7/8

+ High Polish Chrome Finish with SUPERTORQUE™ Box End
++ High Polish Chrome Finish with SUPERCOMBO® Open End and SUPERTORQUE™ Box End
Fed. Spec.: ANSI B107.6; SAE AS 954

Features

- SUPERCOMBO® open end has specially designed grooves that direct wrench force away from fastener corners
- SUPERTORQUE™ box opening design allows application of higher torque without rounding or deforming hex fastener points
- No contact is made at the corners
- Instead, wrenching forces are placed on the flat surfaces behind the points
- Meets or exceeds aerospace specification AS 954 for 12 point fasteners (as defined by AS 870) to provide accurate torque/tension relationship for precision application
- May be used on all common hex (6 point) fasteners with considerable advantage over conventional box end wrenches to increase both hand tool flexibility and economy
- Box and open end openings are identical

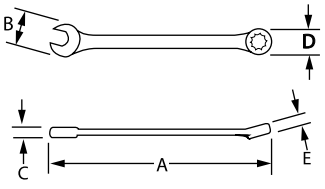
Made in U.S.A.

Grooves in the SUPERCOMBO® open ends direct wrench force away from fastener corners.

JHW1213MSC

JHW1232MSC

SUPERTORQUE™ box opening design allows higher torque without rounding or deforming fastener corners by placing wrenching forces on the flat surfaces rather than the points.



⚠WARNING

SUPERCOMBO® WRENCH SETS

High Polish Chrome Finish, 12 Point, Metric
Set Contents:

Product Code	Size (MM)	JHWMWS-1B 8-Piece Set in Pouch	JHWMWS-5A 10-Piece Set in Pouch	JHWMWS-10A 10-Piece Set in Pouch	JHWMWS-15A 15-Piece Set in Pouch	JHWMWS-15SA 15-Piece Set in Pouch	JHWMWS-18A 18-Piece Set in Pouch	JHWMWS-6A 10-Piece Set in Pouch	JHWMWS-27TA 27-Piece Set
JHW1206MSC	6	X							X
JHW1207MSC	7	X	X		X	X	X		X
JHW1208MSC	8	X	X		X	X	X		X
JHW1209MSC	9	X	X		X		X		X
JHW1210MSC	10	X	X	X	X	X	X		X
JHW1211MSC	11	X	X	X	X		X		X
JHW1212MSC	12	X	X	X	X	X	X		X
JHW1213MSC	13	X	X	X	X		X		X
JHW1214MSC	14		X	X	X	X	X		X
JHW1215MSC	15		X	X	X		X		X
JHW1216MSC	16			X	X	X	X		X
JHW1217MSC	17		X	X	X		X		X
JHW1218MSC	18			X	X	X	X	X	X
JHW1219MSC	19			X	X		X	X	X
JHW1220MSC	20				X	X	X		X
JHW1221MSC	21				X		X	X	X
JHW1222MSC	22					X	X	X	X
JHW1223MSC	23						X		X
JHW1224MSC	24					X	X	X	X
JHW1225MSC	25								X
JHW1226MSC	26					X			X
JHW1227MSC	27					X		X	X
JHW1229MSC	29					X			X
JHW1230MSC	30					X		X	X
JHW1232MSC	32					X		X	X
JHW1234MSC	34							X	X
JHW1236MSC	36							X	X

JHWMWS-1B

Made in U.S.A.

JHWMWS-5A

JHWMWS-10A

JHWMWS-15A

JHWMWS-18A

JHWMWS-6A

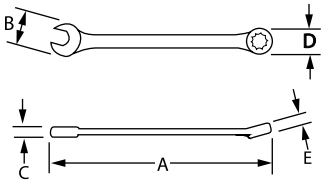
SUPERCOMBO® COMBINATION WRENCHES

High Visibility Red Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW1212RSC ++	3/8	6 1/2	13/16	3/16	9/16	1/4
JHW1214RSC ++	7/16	7 1/4	15/16	7/32	11/16	9/32
JHW1216RSC ++	1/2	8	1 1/16	1/4	3/4	11/32
JHW1218RSC ++	9/16	8 3/4	1 1/4	1/4	7/8	3/8
JHW1220RSC ++	5/8	9 1/2	1 3/8	9/32	15/16	13/32
JHW1222RSC ++	11/16	10 1/4	1 1/2	5/16	1 1/32	7/16
JHW1224RSC ++	3/4	11	1 5/8	5/16	1 1/8	1/2
JHW1226RSC ++	13/16	11 3/4	1 3/4	3/8	1 7/32	17/32
JHW1228RSC ++	7/8	12 1/2	1 7/8	13/32	1 5/16	9/16
JHW1230RSC ++	15/16	13 1/4	2	7/16	1 3/8	19/32
JHW1232RSC ++	1	14	2 1/8	15/32	1 15/32	5/8
JHW1234RSC ++	1 1/16	14 3/4	2 1/4	1/2	1 9/16	21/32
JHW1236RSC ++	1 1/8	15 1/2	2 13/32	17/32	1 21/32	11/16
JHW1240RSC ++	1 1/4	17	2 21/32	9/16	1 13/16	3/4

++ Hi-Vis Red Finish with SUPERCOMBO® Open End and SUPERTORQUE™ Box End
Fed. Spec.: ANSI B107.6

JHW1216RSC



JHWWS1170RSC

7 Piece Hi-Vis Red Combination Wrench Set, 12 Point, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1212RSC	3/8	JHW1218RSC	9/16	JHW1224RSC	3/4
JHW1214RSC	7/16	JHW1220RSC	5/8	Pouch	
JHW1216RSC	1/2	JHW1222RSC	11/16		

JHWWS1170RSC

JHWWS1171RSC

11 Piece Hi-Vis Red Combination Wrench Set, 12 Point, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1212RSC	3/8	JHW1220RSC	5/8	JHW1228RSC	7/8
JHW1214RSC	7/16	JHW1222RSC	11/16	JHW1230RSC	15/16
JHW1216RSC	1/2	JHW1224RSC	3/4	JHW1232RSC	1
JHW1218RSC	9/16	JHW1226RSC	13/16	Pouch	

JHWWS1171RSC

JHWWS1172RSC

14 Piece Hi-Vis Red Combination Wrench Set, 12 Point, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1212RSC	3/8	JHW1222RSC	11/16	JHW1232RSC	1
JHW1214RSC	7/16	JHW1224RSC	3/4	JHW1234RSC	1 1/16
JHW1216RSC	1/2	JHW1226RSC	13/16	JHW1236RSC	1 1/8
JHW1218RSC	9/16	JHW1228RSC	7/8	JHW1240RSC	1 1/4
JHW1220RSC	5/8	JHW1230RSC	15/16	Pouch	

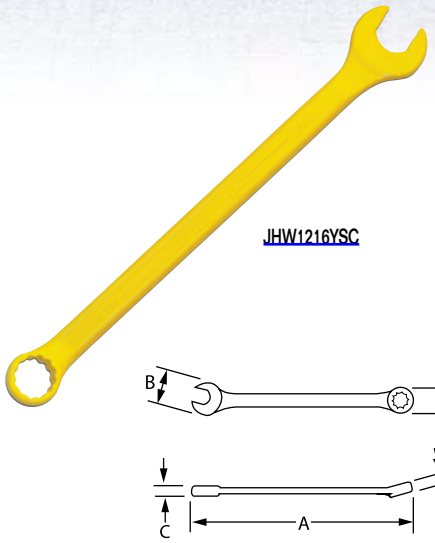
JHWWS1172RSC

Features

- SUPERCOMBO® open end has specially designed grooves that direct wrench force away from fastener corners
- SUPERTORQUE™ box opening design allows application of higher torque without rounding or deforming hex fastener points
- No contact is made at the corners
- Instead, wrenching forces are placed on the flat surfaces behind the points
- Meets or exceeds aerospace specification AS 954 for 12 point fasteners (as defined by AS 870) to provide accurate torque/tension relationship for precision application
- May be used on all common hex (6 point) fasteners with considerable advantage over conventional box end wrenches to increase both hand tool flexibility and economy
- Box and open end openings are identical

Made in U.S.A.

⚠WARNING



JHW1216YSC

SUPERCOMBO® COMBINATION WRENCHES

High Visibility Yellow Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW1212YSC ++	3/8	6 1/2	13/16	3/16	9/16	1/4
JHW1214YSC ++	7/16	7 1/4	15/16	7/32	11/16	9/32
JHW1216YSC ++	1/2	8	1 1/16	1/4	3/4	11/32
JHW1218YSC ++	9/16	8 3/4	1 1/4	1/4	7/8	3/8
JHW1220YSC ++	5/8	9 1/2	1 3/8	9/32	15/16	13/32
JHW1222YSC ++	11/16	10 1/4	1 1/2	5/16	1 1/32	7/16
JHW1224YSC ++	3/4	11	1 5/8	5/16	1 1/8	1/2
JHW1226YSC ++	13/16	11 3/4	1 3/4	3/8	1 7/32	17/32
JHW1228YSC ++	7/8	12 1/2	1 7/8	13/32	1 5/16	9/16
JHW1230YSC ++	15/16	13 1/4	2	7/16	1 3/8	19/32
JHW1232YSC ++	1	14	2 1/8	15/32	1 15/32	5/8
JHW1234YSC ++	1 1/16	14 3/4	2 1/4	1/2	1 9/16	21/32
JHW1236YSC ++	1 1/8	15 1/2	2 13/32	17/32	1 21/32	11/16
JHW1240YSC ++	1 1/4	17	2 21/32	9/16	1 13/16	3/4

++ Hi-Vis Yellow Finish with SUPERCOMBO® Open End and SUPERTORQUE™ Box End

Fed. Spec.: ANSI B107.6

JHWWS1170YSC

JHWWS1170YSC

7 Piece Hi-Vis Yellow Combination Wrench Set, 12 Point, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1212YSC	3/8	JHW1218YSC	9/16	JHW1224YSC	3/4
JHW1214YSC	7/16	JHW1220YSC	5/8	Pouch	
JHW1216YSC	1/2	JHW1222YSC	11/16		

JHWWS1171YSC

JHWWS1171YSC

11 Piece Hi-Vis Yellow Combination Wrench Set, 12 Point, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1212YSC	3/8	JHW1220YSC	5/8	JHW1228YSC	7/8
JHW1214YSC	7/16	JHW1222YSC	11/16	JHW1230YSC	15/16
JHW1216YSC	1/2	JHW1224YSC	3/4	JHW1232YSC	1
JHW1218YSC	9/16	JHW1226YSC	13/16	Pouch	

JHWWS1172YSC

JHWWS1172YSC

14 Piece Hi-Vis Yellow Combination Wrench Set, 12 Point, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1212YSC	3/8	JHW1222YSC	11/16	JHW1232YSC	1
JHW1214YSC	7/16	JHW1224YSC	3/4	JHW1234YSC	1 1/16
JHW1216YSC	1/2	JHW1226YSC	13/16	JHW1236YSC	1 1/8
JHW1218YSC	9/16	JHW1228YSC	7/8	JHW1240YSC	1 1/4
JHW1220YSC	5/8	JHW1230YSC	15/16	Pouch	

Features

- SUPERCOMBO® open end has specially designed grooves that direct wrench force away from fastener corners
- SUPERTORQUE™ box opening design allows application of higher torque without rounding or deforming hex fastener points
- No contact is made at the corners
- Instead, wrenching forces are placed on the flat surfaces behind the points
- Meets or exceeds aerospace specification AS 954 for 12 point fasteners (as defined by AS 870) to provide accurate torque/tension relationship for precision application
- May be used on all common hex (6 point) fasteners with considerable advantage over conventional box end wrenches to increase both hand tool flexibility and economy
- Box and open end openings are identical

Made in U.S.A.

MINIATURE COMBINATION WRENCH

High Polished Chrome Finish, 6 & 12 Point, SAE

Product Code	Size (Inches)	Point	A Box End Diameter (Inches)	B Open End Width (Inches)	C Box End Thickness (Inches)	D Open End Thickness (Inches)	E Overall Length (Inches)
JHWMIDS4A	1/8	6	7/32	11/32	1/8	1/8	2 11/16
JHWMIDS5A	5/32	6	9/32	13/32	5/32	1/8	2 27/32
JHWMIDS6A	3/16	6	5/16	7/16	5/32	1/8	2 31/32
JHWMID65A	13/64	12	3/8	1/2	1/8	1/8	3 1/8
JHWMID7A	7/32	12	3/8	1/2	3/16	1/8	3 3/32
JHWMID75A	15/64	12	3/8	1/2	2/8	1/8	3 1/4
JHWMID8A	1/4	12	13/32	17/32	3/16	5/32	3 7/32
JHWMID9A	9/32	12	7/16	19/32	7/32	5/32	3 11/32
JHWMID10A	5/16	12	1/2	21/32	7/32	5/32	3 1/2
JHWMID12A	3/8	12	19/32	25/32	1/4	3/16	3 3/4
JHWMID14A	7/16	12	21/32	29/32	5/16	7/32	4 1/32

JHWMID8A

JHWWS-MID10

JHWWS-MID10 10 Piece Miniature Combination Wrench Set in Pouch Contents Include:

Product Code:	Size (Inches)	Product Code:	Size (Inches)	Product Code:	Size (Inches)
JHWMIDS5A	5/32	JHWMIDS6A	3/16	JHWMID65A	13/64
JHWMID7A	7/32	JHWMID75A	15/64	JHWMID8A	1/4
JHWMID9A	9/32	JHWMID10A	5/16	JHWMID12A	3/8
JHWMID14A	7/16				

Made in U.S.A.

Features

- Excellent wrench for fast turning of fasteners in limited clearance areas
- Box and open end openings are identical size
- High polish chrome textured finish provides great feel and wipes clean easily

SHORT COMBINATION WRENCH

High Polish Chrome Finish, 12 Point, Metric

Product Code	Size (MM)	A Box End Diameter (Inches)	B Open End Width (Inches)	C Box End Thickness (Inches)	D Open End Thickness (Inches)	E Overall Length (Inches)
JHW1208M	8	1/2	5/8	1/4	3/16	4 13/16
JHW1209M	9	1/2	3/4	1/4	3/16	5
JHW1210M	10	9/16	3/4	1/4	3/16	5 1/4
JHW1211M	11	11/16	1	5/16	1/4	5 7/16
JHW1212M	12	11/16	1	5/16	1/4	5 9/16
JHW1213M	13	13/16	1	3/8	1/4	5 13/16
JHW1214M	14	13/16	1 1/8	3/8	1/4	6
JHW1215M	15	7/8	1 1/4	3/8	1/4	6 1/8
JHW1216M	16	1	1 1/4	3/8	1/4	6 3/8
JHW1217M	17	1	1 3/8	7/16	5/16	6 5/8
JHW1218M	18	1 1/16	1 1/2	1	5/16	6 3/4
JHW1219M	19	1 3/16	1 1/2	1	3/8	7

JHW1213M

JHWMWS-MS10

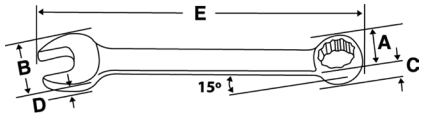
MWS-MS-10 10 Piece Short Combination Wrench Set in Pouch Contents Include:

Product Code:	Sizes (mm)	Product Code:	Sizes (mm)	Product Code:	Sizes (mm)
JHW1208M	8	JHW1209M	9	JHW1210M	10
JHW1211M	11	JHW1212M	12	JHW1213M	13
JHW1214M	14	JHW1215M	15	JHW1217M	17
JHW1219M	19				

Made in U.S.A.

Features

- Excellent wrench for fast turning of fasteners in limited clearance areas
- Box and open end openings are identical size
- High polish chrome textured finish provides great feel and wipes clean easily



A = Outside Dia.
B = Outside Dia.
C = Head Depth
D = Head Depth
E = Length

WARNING

JHW11900

JHW11940

SEMI DEEP, FLEX-HEAD COMBINATION WRENCHES

High Polish Chrome Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Socket Diameter (Inches)	E Hex Depth (Inches)
JHW11900	3/8	7	15/16	7/32	9/16	1/2
JHW11901	7/16	7	15/16	7/32	5/8	17/32
JHW11902	1/2	8	1 15/16	1/4	25/32	19/32
JHW11903	9/16	8 3/4	1 9/32	1/4	13/16	21/32
JHW11904	5/8	9 3/4	1 15/32	9/32	14/16	3/4
JHW11905	11/16	9 3/4	1 15/32	9/32	15/16	3/4
JHW11906	3/4	10 3/4	1 19/32	1/4	1	25/32

JHW11940
7 Piece Flex-Head Combination Wrench Set, 12 Point, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW11900	3/8	JHW11903	9/16	JHW11906	3/4
JHW11901	7/16	JHW11904	5/8		
JHW11902	1/2	JHW11905	11/16		

JHW12607

JHW12691

SEMI DEEP, DOUBLE FLEX-HEAD WRENCHES

High Polish Chrome Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Socket Diameter (Inches)	C Hex Depth (Inches)	D Socket Diameter (Inches)	E Hex Depth (Inches)
JHW12601	3/8 x 7/16	7 13/16	9/16	15/32	5/8	17/32
JHW12603	1/2 x 9/16	9 3/4	23/32	5/8	13/16	21/32
JHW12605	5/8 x 11/16	10	27/32	23/32	15/16	3/4
JHW12607	3/4 x 7/8	12	1	3/4	1 5/32	29/32

JHW12691 4 Piece Double Flex-Head Wrench Set, 12 Point, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW12601	3/8 x 7/16	JHW12605	5/8 x 11/16
JHW12603	1/2 x 9/16	JHW12607	3/4 x 7/8

Features

- Unique semi-deep socket end provides extra bolt clearance.
- High-polished chrome finish cleans easily.
- 12 point socket end provides maximum versatility.
- Recessed corners in socket end provide extra turning power.

JHW11316

JHW11030

STUBBY COMBINATION WRENCHES

High Polish Chrome Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW11310	5/16	3 9/16	11/16	5/32	1/2	7/16
JHW11312	3/8	3 3/4	13/16	3/16	19/32	1/2
JHW11314	7/16	3 15/16	15/16	7/32	21/32	9/16
JHW11316	1/2	4 1/4	1 1/16	1/4	3/4	11/16
JHW11318	9/16	4 1/2	1 3/16	9/32	27/32	3/4
JHW11320	5/8	4 3/4	1 5/16	9/32	15/16	13/16
JHW11322	11/16	5	1 7/16	5/16	1 1/32	7/8
JHW11324	3/4	5 7/16	1 9/16	11/32	1 1/8	15/16

Fed. Spec.: ANSI B107.6

JHW11030 7 Piece Stubby Combination Wrench Set, 12 Point, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW11312	3/8	JHW11318	9/16	JHW11324	3/4
JHW11314	7/16	JHW11320	5/8		
JHW11316	1/2	JHW11322	11/16		

Features

- Extra short handle for access where clearance is limited
- High-polished chrome finish cleans easily
- 12 point box end provides maximum versatility
- Recessed corners in box end provide extra turning power

JHW1224RS

STANDARD RATCHETING COMBINATION WRENCHES

- Nickel-chrome plating helps protect against corrosion and makes cleaning easy
- Sized for optimum comfort and balance
- Ratcheting gear features up to 80 teeth, minimizing swing arc in tight spaces
- Manufactured from special alloy steel, precision-forged and heat treated for optimum strength and durability
- SUPERCOMBO® open end has specially designed grooves that direct wrench force away from fastener corners
- SUPERTORQUE™ box opening design allows the application of higher torque without rounding or deforming hex fastener points. No contact is made at the corners. Instead, wrenching forces are placed on the flat surfaces behind the points.

High Polish Chrome Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Width (Inches)	E Box End Thickness (Inches)
JHW1208RS	1/4	4 15/16	9/16	1/8	21/32	1/4
JHW1210RS	5/16	5 7/8	11/16	5/32	11/16	9/32
JHW1211RS	11/32	6 15/32	25/32	3/16	25/32	5/16
JHW1212RS	3/8	7 1/32	7/8	3/16	27/32	5/16
JHW1214RS	7/16	7 5/8	31/32	7/32	7/8	11/32
JHW1216RS	1/2	8 11/16	1 3/32	7/32	31/32	13/32
JHW1218RS	9/16	9 1/4	1 7/32	1/4	1 1/16	13/32
JHW1220RS	5/8	10 9/32	1 11/32	9/32	1 3/16	7/16
JHW1222RS	11/16	10 29/32	1 7/16	1/2	1 1/4	15/32
JHW1224RS	3/4	12	1 5/8	11/32	1 7/16	1/2

High Polish Chrome Finish, 12 Point, Metric

Product Code	Size (MM)	A Overall Length (MM)	B Open End Width (MM)	C Open End Thickness (MM)	D Box End Width (MM)	E Box End Thickness (MM)
JHW1210MRS	10	179	22	5	22	8
JHW1211MRS	11	194	24	5	22	9
JHW1212MRS	12	207	26	6	24	9
JHW1213MRS	13	221	28	6	25	10
JHW1214MRS	14	235	31	7	27	10
JHW1215MRS	15	250	33	5	28	11
JHW1216MRS	16	261	34	7	31	11
JHW1217MRS	17	277	37	8	32	12
JHW1218MRS	18	291	39	8	35	12
JHW1219MRS	19	305	41	8	37	13

JHWWS1170RS
7 Piece Standard Ratcheting Combination Wrench Set, SAE, in Pouch

Contents Include:

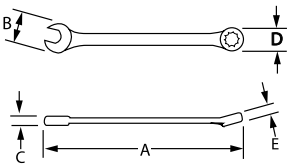
Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1212RS	3/8	JHW1220RS	5/8
JHW1214RS	7/16	JHW1222RS	11/16
JHW1216RS	1/2	JHW1224RS	3/4
JHW1218RS	9/16		

JHWWS1180RS
10 Piece Standard Ratcheting Combination Wrench Set, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1208RS	1/4	JHW1216RS	1/2
JHW1210RS	5/16	JHW1218RS	9/16
JHW1211RS	11/32	JHW1220RS	5/8
JHW1212RS	3/8	JHW1222RS	11/16
JHW1214RS	7/16	JHW1224RS	3/4

USA Forged & Assembled



JHWMWS10RS
10 Piece Standard Ratcheting Combination Wrench Set, Metric, in Pouch

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)
JHW1210MRS	10	JHW1215MRS	15
JHW1211MRS	11	JHW1216MRS	16
JHW1212MRS	12	JHW1217MRS	17
JHW1213MRS	13	JHW1218MRS	18
JHW1214MRS	14	JHW1219MRS	19

USA Forged & Assembled

JHWWS1170RS

WARNING

REVERSIBLE RATCHETING COMBINATION WRENCHES

- Box ends are offset 15-degrees for knuckle clearance
- Sized for optimum comfort and balance
- Ratcheting gear features up to 80 teeth, minimizing swing arc in tight spaces
- Low-profile, easy-action, reverse lever won't get in your way
- Manufactured from special alloy steel, precision-forged and heat-treated for optimum strength and durability
- SUPERCOMBO® open end has specially designed grooves that direct wrench force away from fastener corners
- SUPERTORQUE™ box opening design allows the application of higher torque without rounding or deforming hex fastener points. No contact is made at the corners. Instead, wrenching forces are placed on the flat surfaces behind the points

High Polish Chrome Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Width (Inches)	E Box End Thickness (Inches)
JHW1210RCU	5/16	5 7/8	11/16	5/32	11/16	9/32
JHW1212RCU	3/8	7 1/32	7/8	3/16	27/32	5/16
JHW1214RCU	7/16	7 5/8	31/32	7/32	7/8	11/32
JHW1216RCU	1/2	8 11/16	1 3/32	7/32	31/32	13/32
JHW1218RCU	9/16	9 1/4	1 7/32	1/4	1 1/16	13/32
JHW1220RCU	5/8	10 9/32	1 11/32	9/32	1 3/16	7/16
JHW1222RCU	11/16	10 29/32	1 7/16	1/2	1 1/4	15/32
JHW1224RCU	3/4	12	1 5/8	11/32	1 7/16	1/2

JHWWS1170RCU 7 Piece Reversible Ratcheting Combination Wrench Set, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1212RCU	3/8	JHW1220RCU	5/8
JHW1214RCU	7/16	JHW1222RCU	11/16
JHW1216RCU	1/2	JHW1224RCU	3/4
JHW1218RCU	9/16		

USA Forged & Assembled

High Polish Chrome Finish, 12 Point, Metric

Product Code	Size (MM)	A Overall Length (MM)	B Open End Width (MM)	C Open End Thickness (MM)	D Box End Width (MM)	E Box End Thickness (MM)
JHW1208MRCU	8	149	18	4	18	7
JHW1209MRCU	9	164	20	4	20	8
JHW1210MRCU	10	179	22	5	22	8
JHW1211MRCU	11	194	24	5	22	9
JHW1212MRCU	12	207	26	6	24	9
JHW1213MRCU	13	221	28	6	25	10
JHW1214MRCU	14	235	31	7	27	10
JHW1215MRCU	15	250	33	7	28	11
JHW1216MRCU	16	261	34	7	31	11
JHW1217MRCU	17	277	37	8	32	12
JHW1218MRCU	18	291	39	8	35	12
JHW1219MRCU	19	305	41	8	37	13

JHWMWS10RCU 10 Piece Reversible Ratcheting Combination Wrench Set, Metric, in Pouch

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)
JHW1210MRCU	10	JHW1215MRCU	15
JHW1211MRCU	11	JHW1216MRCU	16
JHW1212MRCU	12	JHW1217MRCU	17
JHW1213MRCU	13	JHW1218MRCU	18
JHW1214MRCU	14	JHW1219MRCU	19

USA Forged & Assembled

STUBBY REVERSIBLE RATCHETING COMBINATION WRENCHES

- SUPERCOMBO® open end has specially designed grooves that direct wrench force away from fastener corners
- Manufactured from special alloy steel, precision forged and head treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes cleaning easy
- Ratcheting gear features up to 80 teeth, minimizing swing arc in tight places
- Sized for optimum comfort and balance
- SUPERTORQUE™ box opening design allows application of higher torque without rounding or deforming hex fasteners points. No contact is made at the corners. Instead, wrenching forces area placed on the flat surfaces behind the points

High Polish Chrome Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Width (Inches)	E Box End Thickness (Inches)
JHW1210RSS	5/16	3 1/2	11/16	5/32	11/16	9/32
JHW1212RSS	3/8	3 27/32	7/8	3/16	27/32	5/16
JHW1214RSS	7/16	4	31/32	7/32	7/8	11/32
JHW1216RSS	1/2	4 11/32	1 3/32	7/32	31/32	13/32
JHW1218RSS	9/16	4 1/2	1 7/32	1/4	1 1/16	13/32
JHW1220RSS	5/8	4 27/32	1 11/32	9/32	1 3/16	7/16
JHW1222RSS	11/16	5	1 7/16	1/2	1 1/4	15/32
JHW1224RSS	3/4	5 11/32	1 5/8	11/32	1 7/16	1/2

JHWWS1170RSS 7 Piece Stubby Reversible Ratcheting Combination Wrench Set, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1212RSS	3/8	JHW1220RSS	5/8
JHW1214RSS	7/16	JHW1222RSS	11/16
JHW1216RSS	1/2	JHW1224RSS	3/4
JHW1218RSS	9/16		

USA Forged & Assembled

High Polish Chrome Finish, 12 Point, Metric

Product Code	Size (MM)	A Overall Length (MM)	B Open End Width (MM)	C Open End Thickness (MM)	D Box End Width (MM)	E Box End Thickness (MM)
JHW1208MRSS	8	89	18	4	18	7
JHW1209MRSS	9	93	20	4	20	8
JHW1210MRSS	10	98	22	5	22	8
JHW1211MRSS	11	102	24	5	22	9
JHW1212MRSS	12	106	26	6	24	9
JHW1213MRSS	13	110	28	6	25	10
JHW1214MRSS	14	114	31	7	27	10
JHW1215MRSS	15	119	33	5	28	11
JHW1216MRSS	16	123	34	7	31	11
JHW1217MRSS	17	127	37	8	32	12
JHW1218MRSS	18	135	39	8	35	12
JHW1219MRSS	19	135	41	8	37	13

JHWMWS10RSS 10 Piece Stubby Reversible Ratcheting Combination Wrench Set, Metric, in Pouch

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)
JHW1210MRSS	10	JHW1215MRSS	15
JHW1211MRSS	11	JHW1216MRSS	16
JHW1212MRSS	12	JHW1217MRSS	17
JHW1213MRSS	13	JHW1218MRSS	18
JHW1214MRSS	14	JHW1219MRSS	19

USA Forged & Assembled

REVERSIBLE RATCHETING COMBINATION WRENCHES

High Polish Chrome Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW1208RC	1/4	4 1/2	21/32	5/32	21/32	9/32
JHW1210RC	5/16	5 1/4	23/32	5/32	23/32	9/32
JHW1212RC	3/8	6 1/4	7/8	3/16	7/8	5/16
JHW1214RC	7/16	6 5/8	15/16	7/32	29/32	11/32
JHW1216RC	1/2	7	1 1/32	1/4	1	13/32
JHW1218RC	9/16	7 3/8	1 3/16	1/4	1 3/32	13/32
JHW1220RC	5/8	8 7/32	1 11/32	9/32	1 7/32	7/16
JHW1222RC	11/16	9	1 7/16	9/32	1 11/16	1/2
JHW1224RC	3/4	9 3/4	1 17/32	11/32	1 15/32	17/32
JHW1226RC	13/16	10 1/2	1 23/32	3/8	1 9/16	17/32
JHW1228RC	7/8	11 13/32	1 7/8	11/32	1 21/32	19/32
JHW1230RC	15/16	12	1 31/32	15/32	1 27/32	5/8
JHW1232RC	1	13	2 3/32	15/32	1 7/8	5/8

JHW1226RC

JHWWS-1168RC

8 Piece Reversible Ratcheting Combination Wrench Set, SAE, in Plastic Tray

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1210RC	5/16	JHW1216RC	1/2	JHW1222RC	11/16
JHW1212RC	3/8	JHW1218RC	9/16	JHW1224RC	3/4
JHW1214RC	7/16	JHW1220RC	5/8		

JHWWS-1168RC

JHWWS-1164RC

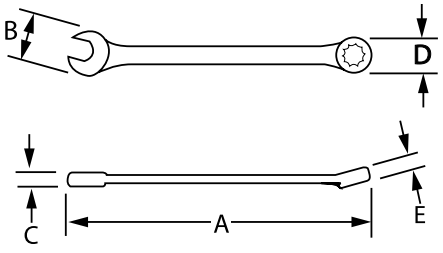
4 Piece Reversible Ratcheting Combination Wrench Set, SAE, in Plastic Tray

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1226RC	13/16	JHW1230RC	15/16
JHW1228RC	7/8	JHW1232RC	1

Features

- High-polished chrome finish cleans easily
- Ratchet lever is easily accessible for quick direction changes
- Recessed corners in ends provide extra turning power



JHWWS-1164RC

WARNING

JHW1219MRC

REVERSIBLE RATCHETING COMBINATION WRENCHES

High Polish Chrome Finish, 12 Point, Metric

Product Code	Size (MM)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW1206MRC	6	4 1/2	21/32	5/32	21/32	1/4
JHW1208MRC	8	5 1/4	23/32	3/16	23/32	9/32
JHW1209MRC	9	5 7/8	13/16	5/32	25/32	5/16
JHW1210MRC	10	6 1/4	7/8	7/32	7/8	11/32
JHW1211MRC	11	6 5/8	15/16	7/32	29/32	11/32
JHW1212MRC	12	6 13/16	1	7/32	31/32	3/8
JHW1213MRC	13	7	1 1/32	1/4	1	13/32
JHW1214MRC	14	7 3/8	1 3/16	1/4	1 3/32	13/32
JHW1215MRC	15	7 3/4	1 1/4	9/32	1 5/32	7/16
JHW1216MRC	16	8 3/16	1 11/32	9/32	1 7/32	7/16
JHW1217MRC	17	9	1 7/16	9/32	1 9/32	1/2
JHW1218MRC	18	9 3/8	1 17/32	5/16	1 3/8	15/32
JHW1219MRC	19	9 3/4	1 17/32	11/32	1 7/16	17/32
JHW1221MRC	21	10 3/4	1 23/32	3/8	1 9/16	9/16
JHW1222MRC	22	11 1/4	1 27/32	3/8	1 21/32	19/32
JHW1224MRC	24	12	1 31/32	15/32	1 27/32	5/8
JHW1225MRC	25	12 31/32	2 3/32	15/32	1 7/8	5/8

JHWMWS-12RC

JHWMWS-12RC

12 Piece Reversible Ratcheting Combination Wrench Set, Metric, in Plastic Tray

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW1208MRC	8	JHW1212MRC	12	JHW1216MRC	16
JHW1209MRC	9	JHW1213MRC	13	JHW1217MRC	17
JHW1210MRC	10	JHW1214MRC	14	JHW1218MRC	18
JHW1211MRC	11	JHW1215MRC	15	JHW1219MRC	19

JHWMWS-4RC

JHWMWS-4RC

4 Piece Reversible Ratcheting Combination Wrench Set, Metric, in Pouch

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)
JHW1221MRC	21	JHW1224MRC	24
JHW1222MRC	22	JHW1225MRC	25

Features

- High-polished chrome finish cleans easily
- Ratchet lever is easily accessible for quick direction changes
- Recessed corners in ends provide extra turning power

JHWWS4RWA

4 PIECE RATCHETING ADAPTOR SET

Product Code	Description
JHWWS4RWA	4 Piece Ratcheting Adaptor Set

Contents Include:

Description	Description
1/4" Drive male Adaptor	3/8" Drive Male Adaptor
1/4" Hex Shank Coupler	1/2" Drive Male Adaptor

Features

- Converts a ratcheting wrench into a ratchet
- To be used with Ratcheting Combination Wrenches
- Allows the use of hex bits, 1/4", 3/8", 1/2" Drive Sockets
- Adaptor locks into the wrench by twisting the top cap
- Push-button socket release

RATCHETING COMBINATION WRENCHES

High Polish Chrome Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW1208NRC	1/4	5 1/3	3/4	1/4	3/4	1/4
JHW1210NRC	5/16	5 1/3	3/4	1/4	3/4	1/4
JHW1212NRC	3/8	6 1/3	3/4	1/4	3/4	1/4
JHW1214NRC	7/16	6 1/2	1	1/4	3/4	1/4
JHW1216NRC	1/2	7	1	1/4	1	1/4
JHW1218NRC	9/16	7 1/2	1 1/4	1/3	1	1/4
JHW1220NRC	5/8	8 1/2	1 5/16	1/3	1 1/4	3/8
JHW1222NRC	11/16	9	1 1/2	1/3	1 5/16	3/8
JHW1224NRC	3/4	10	1 1/2	5/8	1 5/16	3/8
JHW1226NRC	13/16	11 1/4	1 3/4	5/8	1 5/8	1/2
JHW1228NRC	7/8	11 1/4	1 3/4	5/8	1 5/8	1/2
JHW1230NRC	15/16	13	2	5/8	1 3/4	1/2
JHW1232NRC	1	13	2	5/8	1 3/4	1/2
JHW1234NRC	1 1/16	14	2 1/8	1/2	2	1/2
JHW1236NRC	1 1/8	16 3/4	2 1/2	1/2	2 5/16	5/8
JHW1238NRC	1 1/4	16 3/4	2 1/2	1/2	2 5/16	5/8

JHW1208NRC

JHWWS-1120NRC
9 Piece Combination Wrench Set, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1208NRC	1/4	JHW1218NRC	9/16
JHW1210NRC	5/16	JHW1220NRC	5/8
JHW1212NRC	3/8	JHW1222NRC	11/16
JHW1214NRC	7/16	JHW1224NRC	3/4
JHW1216NRC	1/2		

JHWWS-1120NRC

JHWWS-1121NRC
11 Piece Combination Wrench Set, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (inches)	Product Code	Size (Inches)
JHW1212NRC	3/8	JHW1220NRC	5/8	JHW1228NRC	7/8
JHW1214NRC	7/16	JHW1222NRC	11/16	JHW1230NRC	15/16
JHW1216NRC	1/2	JHW1224NRC	3/4	JHW1232NRC	1
JHW1218NRC	9/16	JHW1226NRC	13/16		

JHWWS-1121NRC

JHWWS-1122NRC
16 Piece Combination Wrench Set, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1208NRC	1/4	JHW1220NRC	5/8	JHW1232NRC	1
JHW1210NRC	5/16	JHW1222NRC	11/16	JHW1234NRC	1 1/16
JHW1212NRC	3/8	JHW1224NRC	3/4	JHW1236NRC	1 1/8
JHW1214NRC	7/16	JHW1226NRC	13/16	JHW1238NRC	1 1/4
JHW1216NRC	1/2	JHW1228NRC	7/8		
JHW1218NRC	9/16	JHW1230NRC	15/16		

JHWWS-1122NRC

Features

- 72-tooth gear requires only 5° of ratcheting arc to engage next gear
- High polish satin-chrome finish cleans easily & protects against corrosion
- Thin profile is perfect for tight clearances where accessibility is critical
- 12-point ratcheting box end allows for superior fastener engagement

WARNING

JHW1206MNRC

JHMWS1123NRC

JHMWS1124NRC

JHMWS1125NRC

JHMWS1126NRC

RATCHETING COMBINATION WRENCHES

High Polish Chrome Finish, 12 Point, Metric

Product Code	Size (MM)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW1206MNRC	6	5 3/8	3/4	1/4	1/4	1/4
JHW1207MNRC	7	5 3/8	3/4	1/4	1/4	1/4
JHW1208MNRC	8	5 3/8	3/4	1/4	1/4	1/4
JHW1209MNRC	9	5 5/8	3/4	1/4	1/4	1/4
JHW1210MNRC	10	6 1/2	7/8	1/4	7/8	1/4
JHW1211MNRC	11	6 5/8	1	1/4	7/8	3/8
JHW1212MNRC	12	6 7/8	1	1/4	1	3/8
JHW1213MNRC	13	7 1/8	1	1/4	1	3/8
JHW1214MNRC	14	7 5/8	1 1/4	3/8	1	3/8
JHW1215MNRC	15	7 7/8	1 1/3	3/8	1	3/8
JHW1216MNRC	16	8 1/2	1 1/3	3/8	1 1/4	3/8
JHW1217MNRC	17	9 1/8	1 1/2	3/8	1 1/4	3/8
JHW1218MNRC	18	9 3/8	1 1/2	3/8	1 1/4	1/2
JHW1219MNRC	19	9 7/8	1 5/8	3/8	1 1/4	1/2
JHW1220MNRC	20	11	1 7/8	3/8	1 5/8	1/2
JHW1221MNRC	21	11	1 7/8	3/8	1 5/8	1/2
JHW1222MNRC	22	11	1 7/8	3/8	1 5/8	1/2
JHW1223MNRC	23	11	1 7/8	3/8	1 5/8	1/2
JHW1224MNRC	24	12 3/4	2	3/8	1 7/8	1/2
JHW1225MNRC	25	12 3/4	2	3/8	1 7/8	1/2
JHW1226MNRC	26	12 3/4	2	3/8	1 7/8	1/2
JHW1227MNRC	27	14 1/8	2 1/8	1/2	2	1/2
JHW1228MNRC	28	14 1/8	2 1/8	1/2	2	1/2
JHW1230MNRC	30	16 3/4	2 1/2	1/2	2 3/8	5/8
JHW1232MNRC	32	16 3/4	2 1/2	1/2	2 3/8	5/8

JHMWS1123NRC 9 Piece Combination Wrench, in Pouch Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW1206MNRC	6	JHW1209MNRC	9	JHW1212MNRC	12
JHW1207MNRC	7	JHW1210MNRC	10	JHW1213MNRC	13
JHW1208MNRC	8	JHW1211MNRC	11	JHW1214MNRC	14

JHMWS1124NRC 14 Piece Combination Wrench, in Pouch Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW1206MNRC	6	JHW1210MNRC	10	JHW1214MNRC	14	JHW1218MNRC	18
JHW1207MNRC	7	JHW1211MNRC	11	JHW1215MNRC	15	JHW1219MNRC	19
JHW1208MNRC	8	JHW1212MNRC	12	JHW1216MNRC	16		
JHW1209MNRC	9	JHW1213MNRC	13	JHW1217MNRC	17		

JHMWS1125NRC 19 Piece Combination Wrench, in Pouch Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW1206MNRC	6	JHW1211MNRC	11	JHW1216MNRC	16	JHW1221MNRC	21
JHW1207MNRC	7	JHW1212MNRC	12	JHW1217MNRC	17	JHW1222MNRC	22
JHW1208MNRC	8	JHW1213MNRC	13	JHW1218MNRC	18	JHW1223MNRC	23
JHW1209MNRC	9	JHW1214MNRC	14	JHW1219MNRC	19	JHW1224MNRC	24
JHW1210MNRC	10	JHW1215MNRC	15	JHW1220MNRC	20		

JHMWS1126NRC 25 Piece Combination Wrench, in Pouch Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW1206MNRC	6	JHW1213MNRC	13	JHW1220MNRC	20	JHW1227MNRC	27
JHW1207MNRC	7	JHW1214MNRC	14	JHW1221MNRC	21	JHW1228MNRC	28
JHW1208MNRC	8	JHW1215MNRC	15	JHW1222MNRC	22	JHW1230MNRC	30
JHW1209MNRC	9	JHW1216MNRC	16	JHW1223MNRC	23	JHW1232MNRC	32
JHW1210MNRC	10	JHW1217MNRC	17	JHW1224MNRC	24		
JHW1211MNRC	11	JHW1218MNRC	18	JHW1225MNRC	25		
JHW1212MNRC	12	JHW1219MNRC	19	JHW1226MNRC	26		

Features

- 72-tooth gear requires only 5° of ratcheting arc to engage next gear
- High polish satin-chrome finish cleans easily & protects against corrosion
- Thin profile is perfect for tight clearances where accessibility is critical
- 12-point ratcheting box end allows for superior fastener engagement

STUBBY REVERSIBLE RATCHETING COMBINATION WRENCHES

High Polish Chrome Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW1210RCS	5/16	3 1/2	23/32	5/32	23/32	9/32
JHW1212RCS	3/8	3 29/32	7/8	3/16	7/8	11/32
JHW1214RCS	7/16	4	31/32	7/32	7/8	11/32
JHW1216RCS	1/2	4 1/2	1 1/16	1/4	1	13/32
JHW1218RCS	9/16	4 11/16	1 3/16	1/4	1 3/32	13/32
JHW1220RCS	5/8	5	1 11/32	9/32	1 7/32	15/32
JHW1222RCS	11/16	5 1/4	1 1/2	9/32	1 5/16	1/2
JHW1224RCS	3/4	5 1/2	1 19/32	11/32	1 15/32	17/32

JHW1216RCS

JHWWS1168RCS 8 Piece Reversible Stubby Ratcheting Combination Wrench Set, SAE, in Plastic Tray

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1210RCS	5/16	JHW1216RCS	1/2	JHW1222RCS	11/16
JHW1212RCS	3/8	JHW1218RCS	9/16	JHW1224RCS	3/4
JHW1214RCS	7/16	JHW1220RCS	5/8		

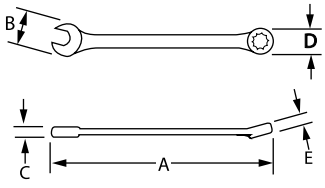
JHWWS1168RCS

Features
- Fine tooth design with dual-pawl mechanism for extra strength
- High-polished chrome finish cleans easily
- Ratchet lever is easily accessible for quick direction changes
- Recessed corners in ends provide extra turning power

STUBBY REVERSIBLE RATCHETING COMBINATION WRENCHES

High Polish Chrome Finish, 12 Point, Metric

Product Code	Size (MM)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW1208MRCS	8	3 1/2	23/32	5/32	23/32	9/32
JHW1209MRCS	9	3 3/4	13/16	5/32	3/4	5/16
JHW1210MRCS	10	3 27/32	7/8	3/16	7/8	11/32
JHW1211MRCS	11	4 1/8	31/32	7/32	29/32	11/32
JHW1212MRCS	12	4 1/4	1	7/32	15/16	3/8
JHW1213MRCS	13	4 1/2	1	1/4	1	13/32
JHW1214MRCS	14	4 11/16	1 5/32	1/4	1 3/32	13/32
JHW1215MRCS	15	4 29/32	1 1/4	9/32	1 5/32	7/16
JHW1216MRCS	16	5	1 3/8	9/32	1 1/4	15/32
JHW1217MRCS	17	5 5/32	1 7/16	9/32	1 9/32	1/2
JHW1218MRCS	18	5 1/4	1 1/2	5/16	1 3/8	1/2
JHW1219MRCS	19	5 1/2	1 9/16	11/32	1 15/32	17/32



JHW1213MRCS

JHWMWS-12RCS 12 Piece Reversible Stubby Ratcheting Combination Wrench Set, Metric, in Plastic Tray

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW1208MRCS	8	JHW1212MRCS	12	JHW1216MRCS	16
JHW1209MRCS	9	JHW1213MRCS	13	JHW1217MRCS	17
JHW1210MRCS	10	JHW1214MRCS	14	JHW1218MRCS	18
JHW1211MRCS	11	JHW1215MRCS	15	JHW1219MRCS	19

JHWMWS-12RCS

Features
- Fine tooth design with dual-pawl mechanism for extra strength
- High-polished chrome finish cleans easily
- Ratchet lever is easily accessible for quick direction changes
- Recessed corners in ends provide extra turning power

⚠WARNING

JHW1216RCF

JHWWS1168RCF

FLEX-HEAD REVERSIBLE RATCHETING COMBINATION WRENCHES

High Polish Chrome Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW1210RCF	5/16	5 1/2	23/32	5/32	23/32	1/4
JHW1212RCF	3/8	6 5/16	29/32	7/32	7/8	5/16
JHW1214RCF	7/16	6 11/16	31/32	7/32	29/32	11/32
JHW1216RCF	1/2	7 1/4	1 1/32	1/4	1	13/32
JHW1218RCF	9/16	7 19/32	1 3/16	1/4	1 3/32	13/32
JHW1220RCF	5/8	8 13/32	1 3/8	9/32	1 1/4	7/16
JHW1222RCF	11/16	9	1 15/32	9/32	1 9/32	1/2
JHW1224RCF	3/4	10	1 9/16	11/32	1 15/32	1/2

JHWWS1168RCF 8 Piece Reversible Flex-Head Ratcheting Combination Wrench Set, SAE, in Plastic Tray

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1210RCF	5/16	JHW1216RCF	1/2	JHW1222RCF	11/16
JHW1212RCF	3/8	JHW1218RCF	9/16	JHW1224RCF	3/4
JHW1214RCF	7/16	JHW1220RCF	5/8		

Features

- Flex-Head pivots 90° in either direction for access in tight areas
- Fine tooth design with dual-pawl mechanism for extra strength
- High-polished chrome finish cleans easily
- Ratchet lever is easily accessible for quick direction changes
- Recessed corners in ends provide extra turning power

JHW1213MRCF

JHWMWS-12RCF

FLEX-HEAD REVERSIBLE RATCHETING COMBINATION WRENCHES

High Polish Chrome Finish, 12 Point, Metric

Product Code	Size (MM)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW1208MRCF	8	5 9/16	23/32	5/32	23/32	9/32
JHW1209MRCF	9	6	13/16	5/32	25/32	5/16
JHW1210MRCF	10	6 5/16	29/32	7/32	27/32	5/16
JHW1211MRCF	11	6 3/4	31/32	7/32	29/32	11/32
JHW1212MRCF	12	7	1 1/32	7/32	31/32	3/8
JHW1213MRCF	13	7 11/16	1 1/16	1/4	1	13/32
JHW1214MRCF	14	7 19/32	1 3/16	1/4	1 3/32	13/32
JHW1215MRCF	15	8	1 1/4	9/32	1 5/32	7/16
JHW1216MRCF	16	8 5/16	1 3/8	9/32	1 7/32	7/16
JHW1217MRCF	17	9	1 15/32	9/32	1 9/32	1/2
JHW1218MRCF	18	9 1/2	1 9/16	5/16	1 3/8	1/2
JHW1219MRCF	19	10	1 9/16	11/32	1 15/32	17/32

JHWMWS-12RCF 12 Piece Reversible Flex-Head Ratcheting Combination Wrench Set, Metric, in Plastic Tray

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW1208MRCF	8	JHW1212MRCF	12	JHW1216MRCF	16
JHW1209MRCF	9	JHW1213MRCF	13	JHW1217MRCF	17
JHW1210MRCF	10	JHW1214MRCF	14	JHW1218MRCF	18
JHW1211MRCF	11	JHW1215MRCF	15	JHW1219MRCF	19

Features

- Flex-Head pivots 90° in either direction for access in tight areas
- Fine tooth design with dual-pawl mechanism for extra strength
- High-polished chrome finish cleans easily
- Ratchet lever is easily accessible for quick direction changes
- Recessed corners in ends provide extra turning power

DOUBLE HEAD OPEN END WRENCHES

Chrome Satin Finish, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Open End Width (Inches)	E Open End Thickness (Inches)
JHW1020	1/4 x 5/16	4 1/16	9/16	5/32	11/16	3/16
JHW1721	5/16 x 3/8	4 11/16	11/16	5/32	13/16	3/16
JHW1723	3/8 x 7/16	5 5/16	13/16	3/16	15/16	7/32
JHW1725	7/16 x 1/2	5 31/32	3/32	7/32	1 1/16	1/4
JHW1725B	1/2 x 9/16	6 19/32	1 1/16	1/4	1 3/16	9/32
JHW1727	9/16 x 5/8	7 9/32	1 3/16	9/32	1 5/16	9/32
JHW1027B	5/8 x 11/16	7 31/32	1 5/16	5/16	1 7/16	5/16
JHW1729	5/8 x 3/4	8 9/32	1 5/16	9/32	1 9/16	11/32
JHW1729B	11/16 x 3/4	8 21/32	1 7/16	5/16	1 9/16	11/32
JHW1731	3/4 x 13/16	9 11/32	1 9/16	11/32	1 11/16	3/8
JHW1731A	3/4 x 7/8	9 11/16	1 19/32	11/32	1 27/32	3/8
JHW1731B	13/16 x 7/8	10 1/32	1 11/16	3/8	1 13/16	3/8
JHW1033A	7/8 x 15/16	10 3/4	1 13/16	3/8	1 15/16	13/32
JHW1033C	15/16 x 1	11 1/2	1 15/16	13/32	2 1/32	13/32
JHW1037	1 1/16 x 1 1/4	12 15/16	2 3/16	7/16	2 17/32	1/2
JHW1037B	1 1/8 x 1 3/16	13 23/32	2 5/16	15/32	2 7/16	15/32
JHW1038	1 1/4 x 1 5/16	15 9/32	2 9/16	1/2	2 11/16	17/32
JHW1038A	1 3/8 x 1 7/16	16 7/8	2 13/16	17/32	2 15/16	17/32
JHW1039B	1 1/2 x 1 5/8	18 29/32	3 1/16	9/16	3 5/16	19/32

Fed. Spec. ANSI B107.6

JHW1037

JHWWS-1705A

5 Piece Double Head Open End Wrench Set, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1723	3/8 x 7/16	JHW1727	9/16 x 5/8	JHW1731B	13/16 x 7/8
JHW1725B	1/2 x 9/16	JHW1729B	11/16 x 3/4		

JHWWS-1705A

JHWWS-1710A

10 Piece Double Head Open End Wrench Set, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1020	1/4 x 5/16	JHW1727	9/16 x 5/8	JHW1037	1 1/16 x 1 1/4
JHW1723	3/8 x 7/16	JHW1729B	11/16 x 3/4	JHW1037B	1 1/8 x 1 3/16
JHW1725	7/16 x 1/2	JHW1731B	13/16 x 7/8		
JHW1725B	1/2 x 9/16	JHW1033C	15/16 x 1		

JHWWS-1710A

Features

- Two openings in each wrench with 45° chamfer on wrench ends allow easy placement of wrench on the fastener
- Continuous arc design minimizes spreading and is stronger than "V" design
- Satin chrome finish provides good grip and cleans easily

Made in U.S.A.

⚠WARNING

JHWEWM-1618

JHWMWS-26

JHWMWS-31

JHWOES-1011

JHWWS-1605

DOUBLE HEAD OPEN END WRENCHES

Chrome Satin Finish, Metric

Product Code	Size (MM)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Open End Width (Inches)	E Open End Thickness (Inches)
JHWEWM-0607	6 x 7	3 13/16	17/32	5/32	19/32	5/32
JHWEWM-0708	7 x 8	4 3/16	19/32	5/32	11/16	3/16
JHWEWM-0910	9 x 10	5	3/4	3/16	27/32	7/32
JHWEWM-1011	10 x 11	5 3/8	27/32	7/32	15/16	7/32
JHWEWM-1213	12 x 13	6 3/16	1	1/4	1 3/32	1/4
JHWEWM-1415	14 x 15	7 1/32	1 1/32	9/32	1 1/4	9/32
JHWEWM-1618	16 x 18	8 3/32	1 5/16	5/16	1 15/32	11/32
JHWEWM-1719	17 x 19	8 17/32	1 13/32	5/16	1 9/16	11/32
JHWEWM-2124	21 x 24	10 17/32	1 23/32	3/8	1 15/16	13/32
JHWEWM-2224	22 x 24	10 3/4	1 13/16	3/8	1 15/16	13/32
JHWEWM-2427	24 x 27	11 29/32	1 15/16	13/32	2 3/16	7/16
JHWEWM-2730	27 x 30	13 5/16	2 3/16	7/16	2 7/16	15/32
JHWEWM3032	30 x 32	14 1/2	2 7/16	15/32	2 9/16	1/2

Fed. Spec. ANSI B107.9M

JHWMWS-26 6 Piece Double Head Open End Wrench Set, Metric, in Pouch

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWEWM-0708	7 x 8	JHWEWM-1213	12 x 13	JHWEWM-1618	16 x 18
JHWEWM-1011	10 x 11	JHWEWM-1415	14 x 15	JHWEWM-1719	17 x 19

JHWMWS-31

10 Piece Double Head Open End Wrench Set, Metric, in Pouch

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWEWM-0607	6 x 7	JHWEWM-1415	14 x 15	JHWEWM-2427	24 x 27
JHWEWM-0708	7 x 8	JHWEWM-1618	16 x 18	JHWEWM-2730	27 x 30
JHWEWM-1011	10 x 11	JHWEWM-1719	17 x 19		
JHWEWM-1213	12 x 13	JHWEWM-2124	21 x 24		

Features

- Two openings in each wrench with 45° chamfer on wrench ends allow easy placement of wrench on the fastener
- Continuous arc design minimizes spreading and is stronger than "V" design
- Satin chrome finish provides good grip and cleans easily

Made in U.S.A.

SHORT DOUBLE HEAD OPEN END WRENCHES

Chrome Satin Finish, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Open End Width (Inches)	E Open End Thickness (Inches)
JHWOES-0607	3/16 x 7/32	2 27/32	13/32	1/8	15/32	1/8
JHWOES-0809	1/4 x 9/32	3 5/32	1/2	1/8	9/16	1/8
JHWOES-1011	5/16 x 11/32	3 7/16	5/8	5/32	11/16	1/8
JHWOES-1214	3/8 x 7/16	3 3/4	3/4	5/32	29/32	1/8
JHWOES-1618	1/2 x 9/16	4 11/32	1	3/16	1 1/8	3/16

Fed. Spec. ANSI B107.6

JHWWS-1605

5 Piece Short Double Head Open End Wrench Set, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWOES-0607	3/16 x 7/32	JHWOES-1011	5/16 x 11/32	JHWOES-1618	1/2 x 9/16
JHWOES-0809	1/4 x 9/32	JHWOES-1214	3/8 x 7/16		

Features

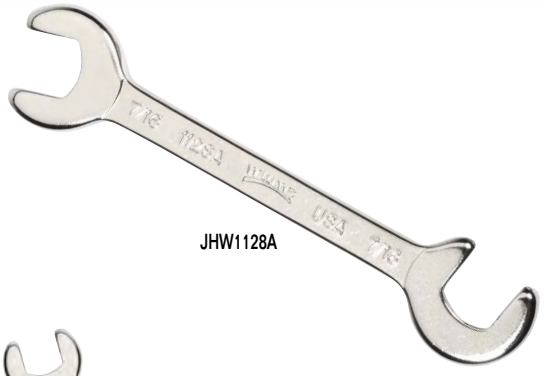
- Two openings in each wrench with 45° chamfer on wrench ends allow easy placement of wrench on the fastener
- Continuous arc design minimizes spreading and is stronger than "V" design
- Satin chrome finish provides good grip and cleans easily

Made in U.S.A.

MINIATURE 15° x 80° DOUBLE HEAD OPEN END WRENCHES

Satin Chrome Finish, SAE

Product Code	Size (Inches)	Overall Length (Inches)	Open End Width (Inches)	Open End Thickness (Inches)	Open End Width (Inches)	Open End Thickness (Inches)
JHW1112A	3/16	3	1/2	7/64	1/2	7/64
JHW1113A	13/64	3	1/2	7/64	1/2	7/64
JHW1114A	7/32	3	1/2	7/64	1/2	7/64
JHW1115A	15/64	3	1/2	7/64	1/2	7/64
JHW1116A	1/4	3	1/2	7/64	1/2	7/64
JHW1118A	9/32	3 1/2	5/8	9/64	5/8	9/64
JHW1120A	5/16	3 1/2	5/8	9/64	5/8	9/64
JHW1122A	11/32	3 3/4	3/4	9/64	3/4	9/64
JHW1124A	3/8	3 3/4	3/4	9/64	3/4	9/64
JHW1128A	7/16	4 7/16	7/16	11/64	7/16	11/64
JHW1132A	1/2	4 7/16	7/16	11/64	7/16	11/64
JHW1136A	9/16	5 3/4	1 5/32	13/64	1 5/32	13/64
JHW1140A	5/8	5 3/4	1 5/32	13/64	1 5/32	13/64



Features

- Wrench heads are offset at 15° and 80° to the handle
- Both ends are the same size to permit the wrench to be used in four different positions
- 45° chamfer on wrench ends allow easy placement of wrench on the fastener
- Continuous arc design minimizes spreading and is stronger than "V" design
- Thin head is perfect for tight clearances
- Satin finish provides corrosion resistance and slip resistant grip
- Excellent for fast turning of fasteners in limited clearance areas
- Each wrench has the same size opening at both ends

JHWWS-1108SP

JHWWS-1108SP

8 Piece Mini Double Open End Wrench & Plier Set, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1114A	7/32	JHW1118A	9/32	JHW1124A	3/8
JHW1115A	15/64	JHW1120A	5/16	JHW1128A	7/16
JHW1116A	1/4	JHW1122A	11/32		

JHWWS-1113CA

JHWWS-1113CA

10 Piece Mini Double Open End Wrench & Plier Set, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1112A	3/16	JHW1116A	1/4	JHW1124A	3/8
JHW1113A	13/64	JHW1118A	9/32	JHWPL-1519C	5" SUPERJOINT® Utility Pliers
JHW1114A	7/32	JHW1120A	5/16		
JHW1115A	15/64	JHW1122A	11/32		

JHWWS1142PCA

14 Piece Mini Double Open End Wrench & Plier Set, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW1112A	3/16	JHW1118A	9/32	JHW1132A	1/2
JHW1113A	13/64	JHW1120A	5/16	JHW1136A	9/16
JHW1114A	7/32	JHW1122A	11/32	JHW1140A	5/8
JHW1115A	15/64	JHW1124A	3/8	JHWPL-1519C	5" SUPERJOINT® Utility Pliers
JHW1116A	1/4	JHW1128A	7/16		

JHWWS1142PCA

Made in U.S.A.

⚠WARNING

MINIATURE 15° x 80° DOUBLE HEAD OPEN END WRENCHES

JHW1111MM

Satin Chrome Finish, Metric

Product Code	Size (MM)	Overall Length (Inches)	Open End Width (Inches)	Open End Thickness (Inches)	Open End Width (Inches)	Open End Thickness (Inches)
JHW1104MM	4	3	1/2	7/64	1/2	7/64
JHW1105MM	5	3	1/2	7/64	1/2	7/64
JHW1105.5MM	5.5	3	1/2	7/64	1/2	7/64
JHW1106MM	6	3	1/2	7/64	1/2	7/64
JHW1107MM	7	3 1/2	5/8	9/64	5/8	9/64
JHW1108MM	8	3 1/2	5/8	9/64	5/8	9/64
JHW1109MM	9	3 3/4	3/4	9/64	3/4	9/64
JHW1110MM	10	4 7/16	7/16	11/64	7/16	11/64
JHW1111MM	11	4 7/16	7/16	11/64	7/16	11/64
JHW1112MM	12	4 7/16	7/16	11/64	7/16	11/64
JHW1113MM	13	4 7/16	7/16	11/64	7/16	11/64
JHW1114MM	14	5 3/4	1 5/32	13/64	1 5/32	13/64
JHW1115MM	15	5 3/4	1 5/32	13/64	1 5/32	13/64
JHW1116MM	16	5 3/4	1 5/32	13/64	1 5/32	13/64

Features

- Wrench heads are offset at 15° and 80° to the handle
- Both ends are the same size to permit the wrench to be used in four different positions
- 45° chamfer on wrench ends allow easy placement of wrench on the fastener
- Continuous arc design minimizes spreading and is stronger than "V" design
- Thin head is perfect for tight clearances
- Satin finish provides corrosion resistance and slip resistant grip

JHWMWS-1110

JHWMWS-1110

10 Piece Mini Double Open End Wrench & Plier Set, Metric, in Pouch

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW1104MM	4	JHW1107MM	7	JHW1111MM	11
JHW1105MM	5	JHW1108MM	8	JHWPL-1519C	5" SUPERJOINT Utility Pliers
JHW1105.5MM	5.5	JHW1109MM	9		
JHW1106MM	6	JHW1110MM	10		

JHWMWS-1115

15 Piece Mini Double Open End Wrench & Plier Set, Metric, in Pouch

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW1104MM	4	JHW1108MM	8	JHW1113MM	13
JHW1105MM	5	JHW1109MM	9	JHW1114MM	14
JHW1105.5MM	5.5	JHW1110MM	10	JHW1115MM	15
JHW1106MM	6	JHW1111MM	11	JHW1116MM	16
JHW1107MM	7	JHW1112MM	12	JHWPL-1519C	5" SUPERJOINT Utility Pliers

Made in U.S.A.

JHWMWS-1115

15°- 60° DOUBLE OPEN END ANGLE-HEAD WRENCHES

Chrome Satin Finish, SAE

Product Code	Size (Inches)	A Head Diameter (Inches)	B Head Thickness (Inches)	C Overall Length (Inches)
JHW3712	3/8	25/32	7/32	4 3/4
JHW3714	7/16	7/8	7/32	5
JHW3716	1/2	1	7/32	5 1/2
JHW3718	9/16	1 1/8	1/4	6
JHW3720	5/8	1 3/16	9/32	6 1/4
JHW3722	11/16	1 5/16	9/32	7
JHW3724	3/4	1 7/16	9/32	7 1/4
JHW3726	13/16	1 19/32	9/32	7 1/2
JHW3728	7/8	1 21/32	9/32	8 1/4
JHW3730	15/16	1 25/32	5/16	9 1/16
JHW3732	1	1 15/16	5/16	9 3/4
JHW3734	1 1/16	2 1/16	5/16	10
JHW3736	1 1/8	2 1/4	5/16	11
JHW3740	1 1/4	2 3/8	11/32	11 1/2
JHW3744	1 3/8	2 11/16	13/32	12 1/2
JHW3746	1 7/16	2 11/16	13/32	12 1/2
JHW3748	1 1/2	2 11/16	13/32	12 1/2
JHW3752	1 5/8	3 13/64	15/32	15 3/4
JHW3754	1 11/16	3 11/32	1/2	16 1/2
JHW3756	1 3/4	3 7/16	17/32	17
JHW3758	1 13/16	3 9/16	17/32	17 3/4
JHW3760	1 7/8	3 11/16	9/16	18 1/2
JHW3764	2	3 15/16	19/32	19 1/4

Fed. Spec. ANSI B107.39 Type 2 Class 3

JHW3732

JHW3780

5 Piece Double Open End Wrench Set, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW3712	3/8	JHW3718	9/16
JHW3714	7/16	JHW3720	5/8
JHW3716	1/2		

JHW3780

JHW3782

10 Piece Double Open End Wrench Set, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW3712	3/8	JHW3722	11/16
JHW3714	7/16	JHW3724	3/4
JHW3716	1/2	JHW3726	13/16
JHW3718	9/16	JHW3728	7/8
JHW3720	5/8	JHW3732	1

JHW3782

Features

- Wrench heads are offset at 15° and 60° to the handle
- Both ends are the same size to permit the wrench to be used in four different positions
- 45° chamfer on wrench ends allow easy placement of wrench on the fastener
- Continuous arc design minimizes spreading and is stronger than "V" design
- Thin head is perfect for tight clearances
- Satin chrome finish provides good grip and cleans easily

USA
Made in U.S.A.

WARNING

JHW10600

DOUBLE HEAD FLARE NUT WRENCHES

Chrome Satin Finish, 6 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Dia (Inches)	C Open End Thickness (Inches)	D Open End Dia (Inches)	E Open End Thickness (Inches)
JHW10600	3/8 x 7/16	6	27/32	11/32	15/16	11/32
JHW10602	1/2 x 9/16	6 3/4	15/16	13/32	1	13/32
JHW10604	5/8 x 11/16	7 3/4	1 3/32	7/16	1 3/16	15/32
JHW10606	3/4 x 7/8	8 5/8	1 9/32	1/2	1 13/32	17/32

Fed. Spec.: ANSI B107.6

JHW11690

JHW11690
4 Piece Double Head Flare Nut Wrench Set, 6 Point, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW10600	3/8 x 7/16	JHW10604	5/8 x 11/16
JHW10602	1/2 x 9/16	JHW10606	3/4 x 7/8

JHW11691 3 Piece Double Head Flare Nut Wrench Set, 6 Point, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW10600	3/8 x 7/16	JHW10604	5/8 x 11/16
JHW10602	1/2 x 9/16		

Features

- Will not mar fittings on pipes and tubing
- Satin chrome textured finish provides great feel and extra gripping power
- Recessed corners in ends provide extra turning power

JHW11691

30° SERVICE WRENCHES

Satin Chrome Finish, SAE

Product Code	Size (Inches)	Overall Length (Inches)	Head Diameter (Inches)	Head Thickness (Inches)
JHW3524	3/4	6 1/4	1 11/16	1/4
JHW3526	13/16	6 1/4	1 11/16	1/4
JHW3528	7/8	6 1/4	1 11/16	1/4
JHW3530	15/16	6 7/8	1 7/8	1/4
JHW3532	1	6 7/8	1 7/8	1/4
JHW3534	1 1/16	6 7/8	1 7/8	1/4
JHW3536	1 1/8	7	2 1/16	1/4
JHW3538	1 3/16	7	2 1/16	1/4
JHW3540	1 1/4	7	2 1/16	1/4
JHW3542	1 5/16	7 5/8	2 1/2	9/32
JHW3544	1 3/8	7 5/8	2 1/2	9/32
JHW3546	1 7/16	7 5/8	2 1/2	9/32
JHW3548	1 1/2	7 5/8	2 1/2	9/32
JHW3550	1 9/16	7 5/8	2 5/8	9/32
JHW3552	1 5/8	7 5/8	2 5/8	9/32
JHW3554	1 11/16	7 5/8	2 5/8	9/32
JHW3556	1 3/4	8 1/2	3 1/8	5/16
JHW3558	1 13/16	8 1/2	3 1/8	5/16
JHW3560	1 7/8	8 1/2	3 1/8	5/16
JHW3562	1 15/16	8 1/2	3 1/8	5/16
JHW3564	2	8 1/2	3 1/2	5/16
JHW3568	2 1/8	8 1/2	3 1/2	5/16
JHW3572	2 1/4	8 1/2	3 1/2	5/16
JHW3576	2 3/8	9 1/2	3 1/2	5/16

Fed. Spec: GGG-W-636E Type 17 Class 3

JHW3542

JHWWS-3510

JHWWS-3510 10 Piece Service Wrench Set, SAE in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW3524	3/4	JHW3532	1	JHW3538	1 3/16
JHW3526	13/16	JHW3534	1 1/16	JHW3540	1 1/4
JHW3528	7/8	JHW3536	1 1/8	JHW3544	1 3/8
JHW3530	15/16				

30° SERVICE WRENCHES

Satin Chrome Finish, Metric

Product Code	Size (MM)	Overall Length (Inches)	Head Diameter (Inches)	Head Thickness (Inches)
JHW3519M	19	6 1/4	1 11/16	1/4
JHW3521M	21	6 1/4	1 11/16	1/4
JHW3522M	22	6 1/4	1 11/16	1/4
JHW3524M	24	6 7/8	1 7/8	1/4
JHW3527M	27	6 7/8	1 7/8	1/4
JHW3530M	30	7	2 1/16	1/4
JHW3532M	32	7	2 1/16	1/4
JHW3536M	36	7 5/8	2 1/2	9/32
JHW3537M	37	7 5/8	2 1/2	9/32
JHW3538M	38	7 5/8	2 1/2	9/32
JHW3540M	40	7 5/8	2 5/8	9/32
JHW3541M	41	7 5/8	2 5/8	9/32
JHW3542M	42	7 5/8	2 5/8	9/32
JHW3544M	44	7 5/8	2 5/8	9/32
JHW3546M	46	8 1/2	3 1/8	5/16
JHW3548M	48	8 1/2	3 1/8	5/16
JHW3550M	50	8 1/2	3 1/8	5/16
JHW3552M	52	8 1/2	3 1/2	5/16
JHW3555M	55	8 1/2	3 1/2	5/16
JHW3560M	60	9 1/2	3 1/2	5/16
JHW3565M	65	9 1/2	3 1/2	5/16

Fed. Spec: GGG-W-636E Type 17 Class 3

JHW3537M

JHWMWS-3510

JHWMWS-3510 10 Piece Service Wrench Set, Metric in Pouch

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW3519M	19	JHW3527M	27	JHW3536M	36
JHW3521M	21	JHW3530M	30	JHW3538M	38
JHW3522M	22	JHW3532M	32	JHW3540M	40
JHW3524M	24				

Features

- Ultra thin pattern for use on jam nuts and access to confined areas
- 30° offset head
- Satin chrome finish

Made in U.S.A.

WARNING

DOUBLE HEAD 10° OFFSET BOX END WRENCHES

Chrome Satin Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Box End Diameter (Inches)	C Box End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW7723	3/8 x 7/16	7 5/8	19/32	5/16	21/32	11/32
JHW7725B	1/2 x 9/16	8 11/16	3/4	3/8	27/32	3/8
JHW7727A	5/8 x 11/16	10 5/32	29/32	7/16	1	15/32
JHW7029B	11/16 x 3/4	10 15/16	1	15/32	1 3/32	1/2
JHW7731A	3/4 x 7/8	12 1/32	1 3/32	1/2	1 1/4	9/16
JHW7731B	13/16 x 7/8	12 13/32	1 3/16	17/32	1 1/4	9/16
JHW7033C	15/16 x 1	14 1/8	1 11/32	19/32	1 7/16	5/8
JHW7038	1 1/8 x 1 3/16	16 3/32	1 19/32	11/16	1 11/16	11/16
JHW7039B	1 1/4 x 1 5/16	17 5/8	1 25/32	23/32	1 27/32	3/4

Fed. Spec. ANSI B107.6

JHW7725B

JHWWS-7707

7 Piece Double Head 10° Offset Box End Wrench Set, SAE, in Pouch

Contents Include:

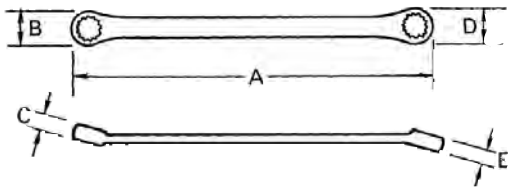
Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW7723	3/8 x 7/16	JHW7029B	11/16 x 3/4	JHW7033C	15/16 x 1
JHW7725B	1/2 x 9/16	JHW7731A	3/4 x 7/8		
JHW7727A	5/8 x 11/16	JHW7731B	13/16 x 7/8		

Features

- SUPERTORQUE™ box opening design allows application of higher torque without rounding or deforming hex fastener points
- No contact is made at the corners
- Instead, wrenching forces are placed on the flat surfaces behind the points
- 10° offset box end allows clearance in tight areas
- Sizes are clearly marked on handle ends

Made in U.S.A.

JHWWS-7707



DOUBLE HEAD 10° OFFSET BOX END WRENCHES

Chrome Satin Finish, 12 Point, Metric

Product Code	Size (MM)	A Overall Length (Inches)	B Box End Diameter (Inches)	C Box End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHWBWM-0810	8 x 10	7 5/16	1/2	9/32	19/32	5/16
JHWBWM-1011	10 x 11	7 31/32	19/32	5/16	21/32	11/32
JHWBWM-1012	10 x 12	8 3/16	19/32	5/16	23/32	11/32
JHWBWM-1113	11 x 13	8 5/8	21/32	11/32	25/32	3/8
JHWBWM-1213	12 x 13	8 27/32	25/32	11/32	25/32	3/8
JHWBWM-1214	12 x 14	9 1/16	23/32	11/32	13/16	13/32
JHWBWM-1315	13 x 15	9 1/2	25/32	3/8	7/8	13/32
JHWBWM-1415	14 x 15	9 3/4	13/16	13/32	7/8	13/32
JHWBWM-1417	14 x 17	9 25/32	13/16	13/32	31/32	15/32
JHWBWM-1618	16 x 18	10 27/32	15/16	7/16	1 1/32	15/32
JHWBWM-1719	17 x 19	11 9/32	31/32	15/32	1 3/32	1/2
JHWBWM-1821	18 x 21	11 15/16	1 3/32	15/32	1 3/16	17/32
JHWBWM-1922	19 x 22	12 3/8	1 3/32	1/2	1 1/4	9/16
JHWBWM-2124	21 x 24	13 1/4	1 3/16	17/32	1 11/32	19/32
JHWBWM-2224	22 x 24	13 15/32	1 1/4	9/16	1 11/32	19/32
JHWBWM-2427	24 x 27	14 19/32	1 11/32	19/32	1 17/32	21/32
JHWBWM-2730	27 x 30	15 29/32	1 17/32	21/32	1 11/16	11/16
JHWBWM-3032	30 x 32	17 1/32	1 11/16	11/16	1 25/32	23/32

Fed. Spec. ANSI B107.9M

JHWBWM-1012

JHWMWS-BWM10

10 Piece Double Head 10° Offset Box End Wrench Set, Metric, in Pouch

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWBWM-0810	8 x 10	JHWBWM-1618	16 x 18	JHWBWM-2730	27 x 30
JHWBWM-1113	11 x 13	JHWBWM-1719	17 x 19	JHWBWM-3032	30 x 32
JHWBWM-1214	12 x 14	JHWBWM-1922	19 x 22		
JHWBWM-1415	14 x 15	JHWBWM-2124	21 x 24		

JHWMWS-BWM10

JHWMWS-BWM12

12 Piece Double Head 10° Offset Box End Wrench Set, Metric, in Pouch

Contents Include:

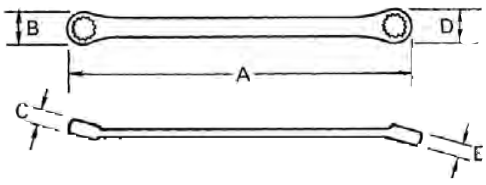
Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWBMW-1011	10 x 11	JHWBWM-1417	14 x17	JHWBWM-1922	19 x 22
JHWBWM-1214	12 x 14	JHWBWM-1618	16 x 18	JHWBWM-2224	22 x 24
JHWBWM-1315	13 x 15	JHWBWM-1719	17 x 19	JHWBWM-2730	27 x 30
JHWBWM-1415	14 x 15	JHWBWM-1821	18 x 21	JHWBWM-3032	30 x 32

JHWMWS-BWM12

Features

- SUPERTORQUE™ box opening design allows application of higher torque without rounding or deforming hex fastener points
- No contact is made at the corners
- Instead, wrenching forces are placed on the flat surfaces behind the points
- 10° offset box end allows clearance in tight areas
- Sizes are clearly marked on handle ends

Made in U.S.A.



WARNING

JHW8725B

DOUBLE HEAD 60° OFFSET BOX END WRENCHES

Chrome Satin Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Box End Diameter (Inches)	C Box End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHW8720	1/4 x 5/16	6 7/16	13/32	1/4	15/32	9/32
JHW8723	3/8 x 7/16	7 5/8	9/16	5/16	21/32	5/16
JHW8725	7/16 x 1/2	8 3/16	21/32	11/32	3/4	11/32
JHW8725B	1/2 x 9/16	8 25/32	3/4	3/8	27/32	3/8
JHW8727	9/16 x 5/8	9 3/8	27/32	13/32	29/32	13/32
JHW8727A	5/8 x 11/16	9 31/32	29/32	7/16	1	7/16
JHW8729	5/8 x 3/4	10 1/4	15/16	7/16	1 3/32	7/16
JHW8729A	11/16 x 13/16	10 27/32	1	15/32	1 3/16	15/32
JHW8731A	3/4 x 7/8	11 7/16	1 3/32	17/32	1 9/32	17/32
JHW8033A	7/8 x 15/16	13	1 9/32	9/16	1 3/8	9/16
JHW8033C	15/16 x 1	13 31/32	1 3/8	19/32	1 7/16	19/32

Fed. Spec. ANSI B107.6

JHWWS-8707

JHWWS-8707
7 Piece Double Head 60° Offset Box End Wrench Set, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW8720	1/4 x 5/16	JHW8729	5/8 x 3/4	JHW8033C	15/16 x 1
JHW8723	3/8 x 7/16	JHW8729A	11/16 x 13/16		
JHW8725B	1/2 x 9/16	JHW8731A	3/4 x 7/8		

Features

- SUPERTORQUE™ box opening design allows application of higher torque without rounding or deforming hex fastener points
- No contact is made at the corners
- Instead, wrenching forces are placed on the flat surfaces behind the points
- 60° offset box end allows extra knuckle and bolt clearance in tight areas
- Sizes are clearly marked on handle ends

Made in U.S.A.

JHWRB-52

SINGLE HEAD RATCHETING BOX WRENCHES

High Polish Chrome Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	Product Code	Size (Inches)	A Overall Length (Inches)
JHWRB-42	1 5/16	15 1/2	JHWRB-54	1 11/16	19
JHWRB-44	1 3/8	15 1/2	JHWRB-56	1 3/4	19
JHWRB-46	1 7/16	15 1/2	JHWRB-58	1 13/16	19
JHWRB-48	1 1/2	15 1/2	JHWRB-60	1 7/8	19
JHWRB-50	1 9/16	15 1/2	JHWRB-64	2	19
JHWRB-52	1 5/8	15 1/2	JHWRB-68	2 1/8	19

Features

- Combines the quick ratcheting action with opening sizes large enough to handle most industrial applications
- Requires less effort than a conventional combination wrench
- All wrenches contain 12-point Torque Grip® wheels
- Ideal for long "bolt-through" applications
- Turn wrench over to change direction

Made in U.S.A.

SINGLE HEAD RATCHETING BOX WRENCHES

High Polish Chrome Finish, 12 Point, Metric

Product Code	Size (MM)	A Overall Length (Inches)	Product Code	Size (MM)	A Overall Length (Inches)
JHWRBM-22	22	12	JHWRBM-27	27	12
JHWRBM-23	23	12	JHWRBM-29	29	12
JHWRBM-24	24	12	JHWRBM-30	30	12
JHWRBM-25	25	12	JHWRBM-32	32	15 ½
JHWRBM-26	26	12	JHWRBM-36	36	15 ½

JHWRBM-22

Features

- Combines the quick ratcheting action with opening sizes large enough to handle most industrial applications
- Requires less effort than a conventional combination wrench
- All wrenches contain 12-point Torque Grip® wheels
- Ideal for long "bolt-through" applications
- Turn wrench over to change direction

Made in U.S.A.

DOUBLE HEAD RATCHETING BOX WRENCHES

High Polish Chrome Finish, 6 & 12 Point, SAE

Product Code	Number of Points	Size (Inches)	A Overall Length (Inches)	B Box End Diameter (Inches)	C Box End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHWRB-810	6	¼ x 5/16	4 ¼	19/32	3/8	11/16	3/8
JHWRB-1214	6	3/8 x 7/16	5 ½	25/32	3/8	7/8	3/8
JHWRB-1618	6	½ x 9/16	6 ¾	1	½	1 5/32	½
JHWRB-1820	12	9/16 x 5/8	8 ⅛	1 5/16	½	1 7/16	½
JHWRB-2022	12	5/8 x 11/16	8 ⅛	1 5/16	½	1 7/16	½
JHWRB-2024	12	5/8 x ¾	8 ⅛	1 5/16	½	1 7/16	½
JHWRB-2428	12	¾ x 7/8	9 ¼	1 13/32	½	1 9/16	½
JHWRB-3036	12	15/16 x 1 ⅛	15 ⅛	1 21/32	9/16	2 9/32	9/16
JHWRB-3440	12	1 1/16 x 1 ¼	15 ⅛	1 29/32	9/16	2 9/32	9/16

JHWRB-1618

JHWWS-12

5 Piece Ratcheting Box Wrench Set, 6 & 12 Point, SAE, in Pouch

Contents Include:

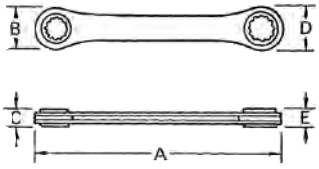
Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWRB-810	¼ x 5/16	JHWRB-1618	½ x 9/16	JHWRB-2428	¾ x 7/8
JHWRB-1214	3/8 x 7/16	JHWRB-2022	5/8 x 11/16		

Features

- Allows fast removal of fasteners with a ratcheting action at each end
- Ideal for long "bolt-through" applications
- Flat handle allows access to tight clearance areas
- Turn wrench over to change direction

Made in U.S.A.

JHWWS-12



WARNING

JHWRBM-1314

DOUBLE HEAD RATCHETING BOX WRENCHES

6 12 M

High Polish Chrome Finish, 6 & 12 Point, Metric

Product Code	Number of Points	Size (MM)	A Overall Length (Inches)	B Box End Diameter (Inches)	C Box End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHWRBM-0708	6	7 x 8	4 1/2	11/16	3/8	11/32	3/8
JHWRBM-0910	6	9 x 10	5 1/2	7/8	3/8	7/8	3/8
JHWRBM-1112	6	11 x 12	6 7/8	1 3/16	1/2	1 1/8	1/2
JHWRBM-1314	6	13 x 14	6 7/8	1 3/16	1/2	1 1/8	1/2
JHWRBM-1517	12	15 x 17	8 1/8	1 7/16	1/2	1 7/16	1/2
JHWRBM-1618	12	16 x 18	8 1/8	1 7/16	1/2	1 7/16	1/2
JHWRBM-1921	12	19 x 21	9 1/4	1 9/16	1/2	1 9/16	1/2

JHWMWS-30

JHWMWS-30

5 Piece Ratcheting Box Wrench Set, 6 & 12 Point, Metric, in Pouch

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWRBM-0708	7 x 8	JHWRBM-1112	11 x 12	JHWRBM-1517	15 x 17
JHWRBM-0910	9 x 10	JHWRBM-1314	13 x 14		

Features

- Allows fast removal of fasteners with a ratcheting action at each end
- Ideal for long "bolt-through" applications
- Flat handle allows access to tight clearance areas
- Turn wrench over to change direction

Made in U.S.A.

JHWRBO-1618

DOUBLE HEAD 25° REVERSIBLE OFFSET RATCHETING BOX WRENCHES

12 F

High Polish Chrome Finish, 12 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Box End Diameter (Inches)	C Box End Thickness (Inches)	D Box End Diameter (Inches)	E Box End Thickness (Inches)
JHWRBO-810	1/4 x 5/16	4 1/4	19/32	3/8	21/32	3/8
JHWRBO-1214	3/8 x 7/16	5 7/16	25/32	3/8	7/8	3/8
JHWRBO-1618	1/2 x 9/16	6 3/4	1	1/2	1 5/32	1/2
JHWRBO-2022	5/8 x 11/16	8	1 5/16	1/2	1 7/16	1/2
JHWRBO-2024	5/8 x 3/4	8	1 5/16	1/2	1 7/16	1/2
JHWRBO-2226	11/16 x 13/16	9 1/8	1 13/32	1/2	1 9/16	1/2
JHWRBO-2428	3/4 x 7/8	9 1/8	1 13/32	1/2	1 9/16	1/2
JHWRBO-2630	13/16 x 15/16	9 1/8	1 13/32	1/2	1 9/16	1/2

JHWWS-5

JHWWS-5

5 Piece Reversible Offset Ratcheting Box Wrench Set, 12 Point, SAE, in Pouch

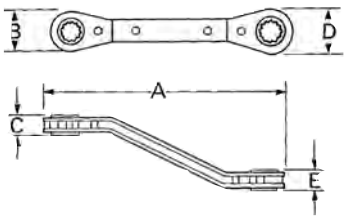
Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWRBO-810	1/4 x 5/16	JHWRBO-1618	1/2 x 9/16	JHWRBO-2428	3/4 x 7/8
JHWRBO-1214	3/8 x 7/16	JHWRBO-2022	5/8 x 11/16		

Features

- 25° offset handle clears obstructions that flat handle wrenches cannot
- Allows fast removal of fasteners with a ratcheting action at each end
- Ideal for long "bolt-through" applications

Made in U.S.A.



RATCHETING FLARE NUT WRENCHES

Black Industrial Finish, 12 Point, SAE

Product Code	Size (Inches)	Overall Length (Inches)	Head Diameter (Inches)	Head Thickness (Inches)
JHWRFW-12	3/8	5 3/8	1	5/16
JHWRFW-14	7/16	5 3/8	1	5/16
JHWRFW-16	1/2	5 3/8	1	5/16
JHWRFW-18	9/16	7 1/4	1 1/32	3/8
JHWRFW-20	5/8	7 1/4	1 1/32	3/8
JHWRFW-22	11/16	7 1/4	1 1/32	3/8
JHWRFW-24	3/4	7 1/4	1 1/32	3/8
JHWRFW-26	13/16	9 5/16	1 5/8	1/2
JHWRFW-28	7/8	9 5/16	1 5/8	1/2
JHWRFW-30	15/16	9 5/16	1 5/8	1/2
JHWRFW-32	1	9 5/16	1 5/8	1/2

JHWRFW-24

Features

- Designed for use on 6 and 12 point tube fittings, fasteners, valves and compression fittings
- Unique design requires only 30° rotation for ratcheting action
- High carbon steel jaws snap open, then close around fastener with 6 point contact
- Prevents distortion of thin-walled fitting
- Allow easy access to tight locations

Made in U.S.A.

DOUBLE HEAD FLARE NUT WRENCHES

Chrome Satin Finish, 6 Point, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Dia (Inches)	C Open End Thickness (Inches)	D Open End Dia (Inches)	E Open End Thickness (Inches)
JHWXFN-0810	1/4 x 5/16	4 27/32	19/32	1/4	5/8	9/32
JHWXFN-1214	3/8 x 7/16	5 13/16	25/32	5/16	27/32	11/32
JHWXFN-1618	1/2 x 9/16	6 13/16	15/16	3/8	1	13/32
JHWXFN-2022	5/8 x 11/16	7 3/4	1 3/32	7/16	3/16	15/32
JHWXFN-2432	3/4 x 1	9 1/2	1 1/4	1/2	19/32	5/8
JHWXFN-2836	7/8 x 1 1/8	10.5	1 7/16	9/16	1 3/4	11/16

Fed. Spec.: ANSI B107.6

JHWXFN-1618

JHWWS-14

5 Piece Double Head Flare Nut Wrench Set, 6 Point, SAE, in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWXFN-1214	3/8 x 7/16	JHWXFN-2022	5/8 x 11/16	JHWXFN-2836	7/8 x 1 1/8
JHWXFN-1618	1/2 x 9/16	JHWXFN-2432	3/4 x 1		

Features

- Will not mar fittings on pipes and tubing
- Satin chrome textured finish provides great feel and extra gripping power
- Recessed corners in ends provide extra turning power

Made in U.S.A.

JHWWS-14

WARNING

33HRUS

BAHCO® ADJUSTABLE WRENCH WITH VALVE PERSUADER

Product Code	Length (Inches)	Maximum Jaw Opening (Inches)	Valve Wheel Wrench Opening
33HRUS	10	1 ¾	¾

Features

- Two tools combined into one convenient operator's tool that can be used wherever valves are adjusted for flow and pressure
- 10" overall length supplies leverage while being compact enough to be easily carried.
- Big-mouth adjustable wrench has large, 1 ¾" capacity
- ¾" valve wheel wrench opening.
- Precision hardened and anti-corrosion treated
- Easy to read size measurement scale: fractional on one side, metric on the other
- Rounded hook-end doesn't leave marks or scratches on the valve
- Head combines slimness for accessibility with strength for performance

31 R US

BAHCO® ALLIGATOR ADJUSTABLE WRENCH

Industrial Grade Steel Handle, Black Phosphate Finish

Product Code	Length (Inches)	Maximum Jaw Opening (Inches)	Head Thickness (Inches)	Jaw Tip Thickness (Inches)
31 R US	8	1 ¼	½	3/16

Features

- V-jaw on wrench has aggressively angled teeth for sure grip on pipes and rounded fasteners
- Measurement scale on head conveniently shows fastener size
- Slim head with tapered jaws combine easy accessibility with extra turning strength
- Precision hardened and anti-corrosion treated

91CUS

BAHCO® SIDE NUT ADJUSTABLE WRENCHES

Comfortable Bigger and Rounded Handles, Chrome Finish

Product Code	Length (Inches)	Maximum Jaw Opening (Inches)	Head Thickness (Inches)	Jaw Tip Thickness (Inches)
91CUS	6	¾	½	¼
92CUS	8	1 ¼	½	5/16
93CUS	10	1 ⅜	⅝	5/16
94CUS	12	1 ½	¾	⅜
95CUS	15	2	1	½
96CUS	21	2 ½	1 ⅛	⅝
97CUS	30	3	1 ½	1

Features

- Side nut adjustable wrenches for heavy duty applications
- Forged in one piece for better performance
- Head angle 15° provides better accessibility
- Measurement scale on head conveniently shows fastener size

BAHCO® ERGO™ BIG-MOUTH ADJUSTABLE WRENCHES

Designed According to BAHCO®'s Scientific 11-Step Ergonomic Design Program

Product Code	Length (Inches)	Maximum Jaw Opening (Inches)	Head Thickness (Inches)	Jaw Tip Thickness (Inches)
Chrome Finish:				
9031 RC US	8	1 1/2	1/2	1/4
Black Phosphate Finish:				
9029 R US	6	1 1/4	1/2	3/16
9031 R US	8	1 1/2	1/2	1/4
9033 R US	10	1 3/4	5/16	3/4
9035 R US	12	2 3/16	3/8	7/8
Thin Jaw Wide Mouth:				
9029 RT US	6	1 1/4	11/64	1/4
9031 RT US	8	1 1/2	11/64	1/4

Features

- Extra-wide opening jaws with shorter handle for maximum access in confined areas
- True ERGO™ design, with thermoplastic handle and larger grip width
- Ideal for plumbers, electricians, and maintenance workers
- Slim head with tapered jaws combine easy accessibility with extra turning strength
- Perfect for working under the sink, within enclosures, or anywhere that a short handle is needed
- Thin Jaw Wide Mouth - 45% wider opening and 45% thinner jaw

9031 RC US

9029 R US

9031 R US

BAHCO® ERGO™ COMBINATION ADJUSTABLE/PIPE WRENCHES

Designed According to BAHCO®'s Scientific 11-Step Ergonomic Design Program

Product Code	Length (Inches)	Maximum Jaw Opening (Inches)	Head Thickness (Inches)	Max Pipe Diameter (Inches)
Chrome Finish:				
9070 RPC US	6	13/16	7/16	3/8
9071 RPC US	8	1 1/16	1/2	1/2
9072 RPC US	10	1 5/16	5/8	5/8
9073 RPC US	12	1 5/16	11/16	11/16
Black Phosphate Finish:				
9070 RP US	6	13/16	7/16	3/8
9071 RP US	8	1 1/16	1/2	1/2
9072 RP US	10	1 5/16	5/8	5/8
9073 RP US	12	1 5/16	11/16	11/16
Wide Mouth:				
9031 RP US	8	1 1/2	1/2	1 1/2

Features

- Unique reversible jaw combines the functions of an adjustable and pipe wrenches
- Simply reverse the jaw to change the grip
- Teeth are aggressively angled to provide maximum gripping power
- True ERGO™ design, with thermoplastic handle and larger grip width
- Ideal for plumbers, electricians, and maintenance workers
- Slim head with tapered jaws combine easy accessibility with extra turning strength

9072 RPC US

9072 RP US

⚠WARNING

BAHCO® ERGO™ ADJUSTABLE WRENCHES

Designed According to BAHCO®'s Scientific 11-Step Ergonomic Design Program

Product Code	Length (Inches)	Maximum Jaw Opening (Inches)	Head Thickness (Inches)	Jaw Tip Thickness (Inches)
Chrome Finish:				
9070 RC US	6	3/4	7/16	3/16
9071 RC US	8	1 1/16	1/2	1/4
9072 RC US	10	1 3/16	5/8	5/16
9073 RC US	12	1 5/16	11/16	7/16
Black Phosphate Finish:				
9070 R US	6	3/4	7/16	3/16
9071 R US	8	1 1/16	1/2	1/4
9072 R US	10	1 3/16	5/8	5/16
9073 R US	12	1 5/16	11/16	7/16

Features

- True ERGO™ design, with thermoplastic handle and larger grip width
- Ideal for plumbers, electricians, and maintenance workers
- Slim head with tapered jaws combine easy accessibility with extra turning strength
- Precision hardened and anti-corrosion treated
- Measurement scale on head conveniently shows fastener size

BAHCO® ADJUSTABLE WRENCHES

Industrial Grade Steel Handles

Product Code	Length (Inches)	Maximum Jaw Opening (Inches)	Head Thickness (Inches)	Jaw Tip Thickness (Inches)
Chrome Finish:				
8069 RC US	4	1/2	3/8	1/8
8070 RC US	6	3/4	7/16	3/16
8071 RC US	8	1 1/16	1/2	1/4
8072 RC US	10	1 1/8	5/8	5/16
8073 RC US	12	1 5/16	11/16	7/16
8074 RC US	15	1 11/16	13/16	9/16
8075 RC US	18	2 1/16	7/8	11/16
Black Phosphate Finish:				
8069 R US	4	1/2	3/8	1/8
8070 R US	6	3/4	7/16	3/16
8071 R US	8	1 1/16	1/2	1/4
8072 R US	10	1 1/8	5/8	5/16
8073 R US	12	1 5/16	11/16	7/16
8074 R US	15	1 11/16	13/16	9/16
8075 R US	18	2 1/16	7/8	11/16
86	24	2 7/16	1 1/16	1 1/16
87	30	3 5/16	1 3/16	1 3/16

80RCUS3
3 Piece Chrome Finish Adjustable Wrench Set, in Pouch

Contents Include:

Product Code	Size	Product Code	Size	Product Code	Size
8070 RC US	6	8071 RC US	8	8072 RC US	10

80RUS3
3 Piece Black Phosphate Finish Adjustable Wrench Set, in Pouch

Contents Include:

Product Code	Size	Product Code	Size	Product Code	Size
8070 R US	6	8071 R US	8	8072 R US	10

Features

- Slim head with tapered jaws combine easy accessibility with extra turning strength
- Measurement scale on head conveniently shows fastener size (except for 24" and 30" wrenches)
- Precision hardened and anti-corrosion treated

ADJUSTABLE CONSTRUCTION WRENCH

Heavy-Duty With Polished Head and Measurement Scales

Product Code	Length (Inches)	Maximum Jaw Opening (Inches)	Head Thickness (Inches)
JHW13625A	15	1 1/2	23/32

Features

- Tapered spud handle locates and aligns bolts and rivets
- Hole in handle permits tethering wrench for safety
- Measurement scale on head conveniently shows fastener size
- Economical black phosphate finish resists rust

JHW13625A

SINGLE HEAD OPEN END OFFSET STRUCTURAL WRENCHES

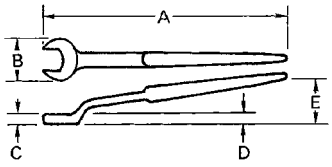
Industrial Black Finish, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)	D Handle Offset (Inches)
JHW1904A	3/4	11 9/16	1 19/32	15/32	7/8
JHW1905	7/8	14 5/16	2	9/16	1
JHW1906	15/16	14 3/16	1 31/32	19/32	1
JHW1906B	1	14 1/4	2	19/32	1
JHW1907	1 1/16	16 13/16	2 5/32	5/8	1 1/8
JHW1907A	1 1/8	16 13/16	2 1/4	5/8	1 1/8
JHW1908	1 1/4	17 11/16	2 23/32	11/16	1 1/4
JHW1908A	1 5/16	18 3/4	2 13/16	23/32	1 1/4
JHW1909	1 7/16	19 3/4	3 5/32	25/32	1 1/4
JHW1909A	1 1/2	19 7/8	3 5/32	25/32	1 1/2
JHW1910	1 5/8	21 1/16	3 7/32	7/8	1 1/2
JHW1911	1 13/16	23	3 3/4	1 3/4	1 5/8
JHW1911A	1 7/8	22 13/16	3 25/32	31/32	1 5/8
JHW1912	2	23 3/4	4 7/32	31/32	1 5/8

Features

- Long offset handle is designed for clearance of obstructions while providing greater leverage
- Tapered spud handle locates and aligns bolt and rivet holes

Made in U.S.A.



JHW1906B

WARNING

JHW206B

SINGLE HEAD OPEN END CONSTRUCTION WRENCHES

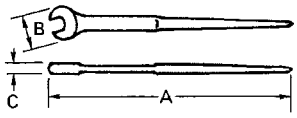
Industrial Black Finish, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Open End Width (Inches)	C Open End Thickness (Inches)
JHW204A	3/4	12	1 23/32	15/32
JHW205	7/8	14 1/4	2 1/16	19/32
JHW206	15/16	14 3/4	2 1/8	19/32
JHW206B	1	13 1/8	2 3/32	1/2
JHW207	1 1/16	16 9/16	2 7/16	21/32
JHW207A	1 1/8	17	2 9/16	11/16
JHWQ-208	1 1/4	18 15/16	2 23/32	23/32
JHW208A	1 5/16	19	2 27/32	3/4
JHW209	1 7/16	21 1/8	3 3/8	27/32
JHW209A	1 1/2	18 3/4	2 3/4	13/16
JHWQ-210	1 5/8	22 11/16	3 21/32	7/8
JHW211	1 13/16	25	4 1/2	1 1/32
JHW211A	1 7/8	25 1/8	4 9/16	1 1/16

Features

- 15° open end provides two gripping angles when wrench is turned over
- Tapered spud handle locates and aligns bolt and rivet holes

Made in U.S.A.



JHW8907A

OFFSET STRUCTURAL BOX WRENCHES

Industrial Black Finish, SAE

Product Code	Size (Inches)	A Overall Length (Inches)	B Head Diameter (Inches)	C Offset at End
JHW8905A	13/16	12	1 15/32	1 25/32
JHW8905	7/8	12	1 15/32	1 25/32
JHW8906	15/16	12	1 5/8	1 61/64
JHW8906B	1	12	1 5/8	1 61/64
JHW8907	1 1/16	15	1 53/64	2 9/64
JHW8907A	1 1/8	15	1 53/64	2 9/64
JHW8908	1 1/4	17	2 5/64	2 21/64
JHW8908A	1 5/16	17	2 5/64	2 21/64
JHW8909	1 7/16	21	2 3/8	2 3/4
JHW8909A	1 1/2	21	2 3/8	2 3/4
JHW8910	1 5/8	22	2 5/8	2 7/8
JHW8910A	1 11/16	22	2 5/8	2 7/8
JHW8911	1 13/16	23	2 29/32	3
JHW8911A	1 7/8	23	2 29/32	3
JHW8912	2	24 1/2	3 5/32	3 5/32
JHW8913	2 13/16	26	3 15/32	3 1/2
JHW8914	2 3/8	28	3 23/32	3 11/16
JHW8915	2 9/16	30	3 29/32	3 13/16
JHW8916	2 3/4	30	4 5/32	3 29/32

Fed. Spec: GGG-W-636E Type 9 Class 2

Features

- Offset from handle to permit clearance of obstructions
- Handles are tapered for insertion into bolt holes
- Industrial Black Finish

Made in U.S.A.

TUBULAR WRENCH HANDLES

Industrial Black Finish

Product Code	Length (Inches)	Inside Handle Diameter (Inches)
JHW13TH	13 1/2	7/8
JHW24TH	24	7/8
JHW36TH	36	1 1/8

Features

- For use with all Williams Tubular Handle Wrenches
- A detent on the wrench shaft helps to align locking button with handle hole
- Tubular wrenches may be used without the handle to quickly run down nuts

Made in U.S.A.

JHW13TH

OPEN END TUBULAR HANDLE WRENCHES

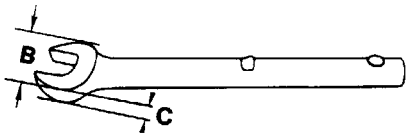
Industrial Black Finish, SAE / Metric

			B	C			
Product Code	Size (Inches)	Size (MM)	Outside Head Diameter (Inches)	Head Depth (Inches)	Assembled Length From Bolt Center (Inches) 13TH	Assembled Length From Bolt Center (Inches) 24TH	Fits Handle No.
JHW1228TOE	7/8	-	1 15/16	1/2	19 3/8	29 7/8	JHW13TH - JHW24TH
JHW1230TOE	15/16	-	1 15/16	1/2	19 3/8	29 7/8	JHW13TH - JHW24TH
JHW1232TOE	1	-	2 5/16	9/16	20 5/32	30 21/32	JHW13TH - JHW24TH
JHW1234TOE	1 1/16	-	2 5/16	9/16	20 5/32	30 21/32	JHW13TH - JHW24TH
JHW1236TOE	1 1/8	-	2 5/16	9/16	20 5/32	30 21/32	JHW13TH - JHW24TH
JHW1240TOE	1 1/4	32	2 11/16	5/8	21 5/32	31 21/32	JHW13TH - JHW24TH
JHW1242TOE	1 5/16	33	2 11/16	5/8	21 5/32	31 21/32	JHW13TH - JHW24TH
JHW1244TOE	1 3/8	35	2 11/16	5/8	22	32 1/2	JHW13TH - JHW24TH
JHW1246TOE	1 7/16	36	3 1/8	11/16	22 1/16	32 9/16	JHW13TH - JHW24TH
JHW1248TOE	1 1/2	38	3 1/8	11/16	22 1/16	33 9/16	JHW13TH - JHW24TH

Features

- Unique, versatile design allows wrench to be used with or without optional handles
- Tubular wrenches may be used without the handle to quickly run down nuts
- The handle can then be attached to provide maximum turning power for final tightening or to reach otherwise inaccessible fasteners
- A detent on the wrench shaft helps to align locking button with handle hole
- Open end wrench head provides access in tight areas
- Sizes of both SAE and corresponding metric fasteners are shown

Made in U.S.A.



B = Outside Dia.
C = Head Depth

JHW1228TOE

WARNING

JHW1234TOB

OFFSET BOX END TUBULAR HANDLE WRENCHES

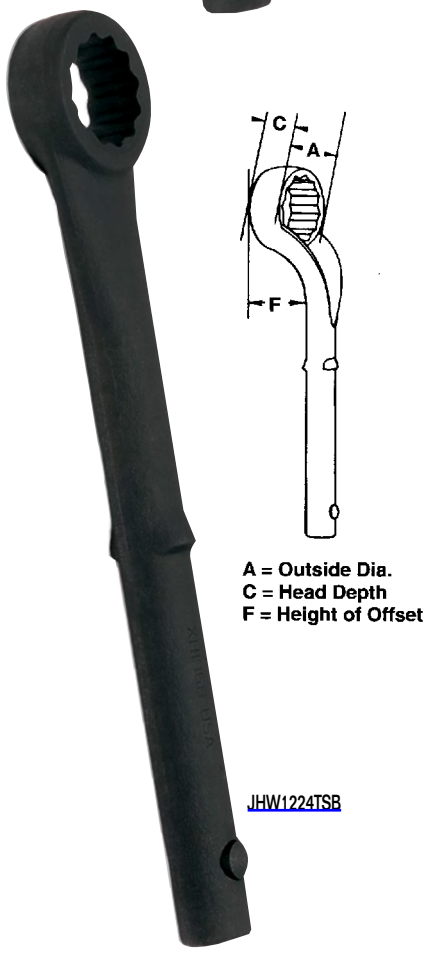
Industrial Black Finish, 12 Point, SAE / Metric

Product Code	Size (Inches)	Size (MM)	A Outside Head Diameter (Inches)	C Head Depth (Inches)	F Height of Offset (Inches)	Assembled Length From Bolt Center (Inches) 13TH	Assembled Length From Bolt Center (Inches) 24TH/36TH	Fits Handle No.
JHW1234TOB	1 1/16	-	1 21/32	5/8	15/16	9 3/32	30 3/32	JHW13TH - JHW24TH
JHW1236TOB	1 1/8	-	1 7/8	23/32	1 1/16	9 7/32	30 7/32	JHW13TH - 24TH
JHW1240TOB	1 1/4	32	1 29/32	23/32	1 1/16	9 7/32	30 7/32	JHW13TH - 24TH
JHW1242TOB	1 5/16	33	2	27/32	1 1/8	11 1/2	32 1/2	JHW13TH - 24TH
JHW1244TOB	1 3/8	35	2 1/16	7/8	1 3/16	11 19/32	32 19/32	JHW13TH - 24TH
JHW1246TOB	1 7/16	36	2 5/32	7/8	1 1/4	11 19/32	32 19/32	JHW13TH - 24TH
JHW1248TOB	1 1/2	38	2 1/4	15/16	1 5/16	11 19/32	32 19/32	JHW13TH - 24TH
JHW1250TOB	1 9/16	40	2 5/16	15/16	1 5/16	11 19/32	32 19/32	JHW13TH - 24TH
JHW1252TOB	1 5/8	41	2 3/8	31/32	1 3/8	11 23/32	32 23/32	JHW13TH - 24TH
JHW1254TOB	1 11/16	43	2 19/32	1 1/16	1 7/16		43 9/32	JHW36TH
JHW1256TOB	1 3/4	44	2 5/8	1 1/16	1 1/2		43 9/32	JHW36TH
JHW1258TOB	1 13/16	46	2 23/32	1 1/8	1 9/16		43 13/32	JHW36TH
JHW1260TOB	1 7/8	47	2 3/4	1 1/8	1 5/8		43 13/32	JHW36TH
JHW1264TOB	2	51	2 31/32	1 1/4	1 3/4		43 1/2	JHW36TH
JHW1266TOB	2 1/16	52	2 31/32	1 1/4	1 3/4		43 1/2	JHW36TH
JHW1270TOB	2 3/16	55	3 3/16	1 5/16	1 7/8		43 19/32	JHW36TH
JHW1272TOB	2 1/4	57	3 1/4	1 5/16	1 7/8		43 19/32	JHW36TH
JHW1276TOB	2 3/8	60	3 13/32	1 13/32	2		43 11/16	JHW36TH
JHW1282TOB	2 9/16	65	3 21/32	1 1/2	2 1/4		43 13/16	JHW36TH
JHW1284TOB	2 5/8	67	3 11/16	1 1/2	2 1/4		44 7/32	JHW36TH
JHW1288TOB	2 3/4	70	3 15/16	1 19/32	2 1/2		44	JHW36TH
JHW1294TOB	2 15/16	75	4 5/32	1 11/16	2 5/8		44 3/32	JHW36TH
JHW12100TOB	3 1/8	79	4 3/8	1 11/16	2 3/4		44 19/32	JHW36TH

Features

- Unique, versatile design allows wrench to be used with or without optional handles
- Tubular Wrenches may be used without the handle to quickly run down nuts
- The handle can then be attached to provide maximum turning power for final tightening or to reach otherwise inaccessible fasteners
- A detent on the wrench shaft helps to align locking button with handle hole
- Offset box wrench head provides turning clearance
- Sizes of both SAE and corresponding metric fasteners are shown

Made in U.S.A.



A = Outside Dia.
C = Head Depth
F = Height of Offset

JHW1224TSB

STRAIGHT BOX END TUBULAR HANDLE WRENCHES

Industrial Black Finish, 12 Point, SAE / Metric

Product Code	Size (Inches)	Size (MM)	A Outside Head Diameter (Inches)	C Head Depth (Inches)	Assembled Length From Bolt Center (Inches) 13TH	Assembled Length From Bolt Center (Inches) 24TH/36TH	Fits Handle No.
JHW1224TSB	3/4	-	1 1/4	17/32	19 1/32	29 17/32	JHW13TH - JHW24TH
JHW1226TSB	13/16	-	1 1/4	17/32	19 1/32	29 17/32	JHW13TH - JHW24TH
JHW1228TSB	7/8	-	1 13/32	19/32	19 1/32	29 17/32	JHW13TH - JHW24TH
JHW1230TSB	15/16	-	1 13/32	19/32	19 1/32	29 17/32	JHW13TH - JHW24TH
JHW1232TSB	1	-	1 9/16	21/32	19 3/32	29 19/32	JHW13TH - JHW24TH
JHW1234TSB	1 1/16	-	1 9/16	21/32	19 3/32	29 19/32	JHW13TH - JHW24TH
JHW1236TSB	1 1/8	-	1 5/16	11/16	19 3/32	29 19/32	JHW13TH - JHW24TH
JHW1240TSB	1 1/4	32	1 29/32	27/32	21 13/32	31 29/32	JHW13TH - JHW24TH
JHW1242TSB	1 5/16	33	1 29/32	27/32	21 13/32	31 29/32	JHW13TH - JHW24TH
JHW1246TSB	1 7/16	36	2 5/32	7/8	21 13/32	31 29/32	JHW13TH - JHW24TH
JHW1248TSB	1 1/2	38	2 5/32	7/8	21 13/32	31 29/32	JHW13TH - JHW24TH
JHW1252TSB	1 5/8	41	2 5/16	15/16	22 7/32	32 23/32	JHW13TH - JHW24TH
JHW12100TSB	3 1/8	79	4 9/32	1 3/4		42 5/32	JHW36TH

Features

- Unique, versatile design allows wrench to be used with or without optional handles
- Tubular wrenches may be used without the handle to quickly run down nuts
- The handle can then be attached to provide maximum turning power for final tightening or to reach otherwise inaccessible fasteners
- A detent on the wrench shaft helps to align locking button with handle hole
- Straight box wrench head provides access when clearance is limited
- Sizes of both SAE and corresponding metric fasteners are shown

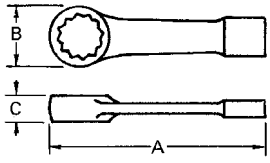
Made in U.S.A.

STRAIGHT PATTERN BOX END STRIKING WRENCHES

Industrial Black Finish, 12 Point, SAE / Metric

Product Code	Size (Inches)	Size (MM)	A Overall Length (Inches)	B Box End Diameter (Inches)	C Box End Thickness (Inches)
JHWSFH1808BW	1 3/16	30	7 9/16	2 3/32	7/8
JHWSFH-1808W	1 1/4	32	7 9/16	2 3/32	7/8
JHWSFH1808AW	1 5/16	33	7 9/16	2 3/32	7/8
JHWSFH1808CW	1 3/8	35	7 21/32	2 9/32	31/32
JHWSFH-1809W	1 7/16	-	7 21/32	2 9/32	31/32
JHWSFH1809BW	-	36	7 21/32	2 9/32	31/32
JHWSFH1809AW	1 1/2	38	7 21/32	2 9/32	31/32
JHWSFH-1810W	1 5/8	41	7 27/32	2 21/32	1 5/32
JHWSFH1810AW	1 11/16	43	7 13/16	2 21/32	1 5/32
JHWSFH1810BW	1 3/4	44	7 15/16	2 13/16	1 1/4
JHWSFH-1811W	1 13/16	46	7 15/16	2 13/16	1 1/4
JHWSFH1811AW	1 7/8	-	7 15/16	2 13/16	1 1/4
JHWSFH1812BW	-	50	11 19/32	3 3/16	1 13/32
JHWSFH-1812W	2	51	11 19/32	3 3/16	1 13/32
JHWSFH1812AW	2 1/16	52	11 19/32	3 3/16	1 13/32
JHWSFH-1813W	2 3/16	55	11 3/4	2 9/16	1 17/32
JHWSFH1813AW	2 1/4	57	11 3/4	2 9/16	1 17/32
JHWSFH-1814W	2 3/8	60	11 7/8	3 3/4	1 11/16
JHWSFH1814AW	2 7/16	62	11 7/8	3 3/4	1 11/16
JHWSFH1814BW	2 1/2	64	11 7/8	3 3/4	1 11/16
JHWSFH-1815W	2 9/16	65	13	4	1 13/16
JHWSFH1815AW	2 5/8	67	13	4	1 13/16
JHWSFH-1816W	2 3/4	70	14 9/32	4 9/32	1 15/16
JHWSFH1816AW	2 13/16	71	14 9/32	4 9/32	1 15/16
JHWSFH1816BW	2 15/16	75	14 13/32	4 17/32	2 1/16
JHWSFH1817AW	3	76	14 13/32	4 17/32	2 1/16
JHWSFH-1817W	3 1/8	80	17 19/32	4 29/32	2 9/32
JHWSFH1818AW	3 3/8	85	17 19/32	4 29/32	2 9/32
JHWSFH-1818W	3 1/2	89	17 13/16	5 5/16	2 15/32
JHWSFH1819BW	3 3/4	95	17 29/32	5 17/32	2 21/32
JHWSFH1819WA	3 7/8	98	17 29/32	5 17/32	2 21/32
JHWSFH1819CWA	4 1/8	105	18 5/32	6 1/32	2 15/16
JHWSFH1819AW	4 1/4	108	18 5/32	6 1/32	2 15/16
JHWSFH1820BWA	4 1/2	114	20 1/32	6 25/32	3 3/16
JHWSFH1820WA	4 5/8	117	20 1/32	6 25/32	3 3/16

JHWSFH-1812W



Features

- Striking face wrenches are designed to be struck by a hammer on the anvil area in order to loosen frozen fasteners or to set and tighten fasteners
- Anvils are proportional to opening sizes
- Special heat treating provides maximum durability for long life
- Straight handle design resists springing while allowing the fastener to turn more easily
- Williams' expanded line of offset striking face wrenches, up to 4 5/8", provides the most extensive line on the market
- Specifically engineered to hold up under the most rigorous industrial use

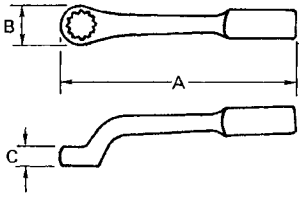
Made in U.S.A.

WARNING

OFFSET PATTERN BOX END STRIKING WRENCHES

12 F M

Industrial Black Finish, 12 Point, SAE / Metric



Product Code	Size (Inches)	Size (MM)	A Overall Length (Inches)	B Box End Diameter (Inches)	C Box End Thickness (Inches)
JHW8807W	1 1/16	27	9 31/32	1 21/32	23/32
JHW8807AW	1 1/8	-	10 31/32	1 15/16	3/4
JHW8808BW	1 3/16	30	10 31/32	1 15/16	3/4
JHW8808W	1 1/4	32	10 31/32	1 15/16	3/4
JHW8808AW	1 5/16	33	10 31/32	1 15/16	3/4
JHW8808CW	1 3/8	35	11 1/2	2 5/32	29/32
JHW8809W	1 7/16	-	11 1/2	2 5/32	29/32
JHW8809BW	-	36	11 1/2	2 5/32	29/32
JHW8809AW	1 1/2	38	12	2 7/16	1
JHW8810W	1 5/8	41	12	2 7/16	1
JHW8810AW	1 11/16	43	12 9/16	2 11/16	1 1/8
JHW8811BW	1 3/4	44	12 9/16	2 11/16	1 1/8
JHW8811W	1 13/16	46	12 9/16	2 11/16	1 1/8
JHW8811AW	1 7/8	-	13	2 7/8	1 1/4
JHW8812AW	1 15/16	49	13	2 7/8	1 1/4
JHW8812BW	-	50	13	2 7/8	1 1/4
JHW8812W	2	51	13	2 7/8	1 1/4
JHW8813BW	2 1/8	54	13 9/16	3 1/4	1 13/32
JHW8813W	2 3/16	55	13 9/16	3 1/4	1 13/32
JHW8813AW	2 1/4	57	13 9/16	3 1/4	1 13/32
JHW8814AW	2 5/16	59	13 9/16	3 1/4	1 13/32
JHW8814W	2 3/8	60	14 1/8	3 11/16	1 1/2
JHW8815BW	2 1/2	64	14 1/8	3 11/16	1 1/2
JHW8815W	2 9/16	65	14 1/8	3 11/16	1 1/2
JHW8815AW	2 5/8	67	15	3 15/16	1 5/8
JHW8816W	2 3/4	70	15	3 15/16	1 5/8
JHW8816CW	2 7/8	73	16	4 7/16	1 3/4
JHW8816BW	2 15/16	75	16	4 7/16	1 3/4
JHW8817AW	3	76	16	4 7/16	1 3/4
JHW8817W	3 1/8	80	16	4 7/16	1 3/4
JHW8818AW	3 3/8	85	18 9/32	6	2
JHW8818W	3 1/2	89	18 9/32	6	2
JHW8819BW	3 3/4	95	18 9/32	6	2
JHW8819W	3 7/8	98	18 9/32	6	2
JHW8819CW	4 1/8	105	18 9/32	6	2
JHW8819AW	4 1/4	108	18 9/32	6	2

Features

- Striking face wrenches are designed to be struck by a hammer on the anvil area in order to loosen frozen fasteners or to set and tighten fasteners
- Anvils are proportional to opening sizes
- Special heat treating provides maximum durability for long life
- Offset handle is close to head to provide clearance in confined areas
- Williams' expanded line of offset striking face wrenches, up to 4 1/4", provides the most extensive line on the market
- Specifically engineered to hold up under the most rigorous industrial use

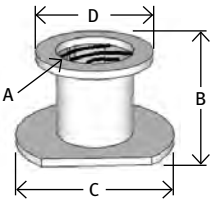
Made in U.S.A.

SLUGGING WRENCH RETAINERS

Product Code	Stud Size (Inches)	Length (Inches)	C (Inches)	D (Inches)
SWR-24	3/8	1 29/32	1 15/16	1 3/4
SWR-28	7/8	2	2 13/16	1 29/32
SWR-32	1	2 1/8	2 1/2	2 1/32
SWR-36	1 1/8	2 1/4	2 1/2	2 5/32
SWR-40	1 1/4	2 3/8	2 7/8	2 9/32
SWR-44	1 3/8	2 15/32	3 1/8	2 3/8
SWR-48	1 1/2	2 5/8	3 1/8	2 1/2
SWR-52	1 5/8	2 3/4	3 5/8	2 21/32
SWR-56	1 3/4	2 7/8	3 7/8	2 3/4
SWR-60	1 7/8	3	4 1/2	2 7/8

SWR-52

SWR-24



SWR-SET

10 Piece Slugging Wrench Retainers Set

Contents Include:

Product Code	Stud Size (Inches)	Product Code	Stud Size (Inches)
SWR-24	3/8	SWR-44	1 3/8
SWR-28	7/8	SWR-48	1 1/2
SWR-32	1	SWR-52	1 5/8
SWR-36	1 1/8	SWR-56	1 3/4
SWR-40	1 1/4	SWR-60	1 7/8

SWR-SET

Features

- Slugging Wrench Retainers thread onto the end of the stud over the slugging wrench to ensure the wrench stays affixed to the fastener
- A spring loaded plate allows for easy adjustment of the wrench without having to unscrew the retainer.
- Increased productivity and safer operation by eliminating the need for a second worker to hold and slugging wrench in place
- Available in 10 sizes, marked with stud sizes (not hex sizes)
- Configured to work with offset and straight handle slugging wrenches

USA
Made in U.S.A.

HAMMER WRENCHES

6 Point

Product Code	Wrench Opening (Nut Size)	Head Dia. (Inches)	Head Thickness (Inches)	Overall Length (Inches)
JHWHW-6034	1 1/16	1 25/32	5/8	9 7/8
JHWHW-6040	1 1/4	2	23/32	10 1/4
JHWHW-6046	1 7/16	2 17/64	7/8	10 9/16
JHWHW-6052	1 5/8	2 31/64	61/64	11
JHWHW-6058	1 13/16	2 21/32	63/64	11 5/16
JHWHW-6064	2	3 1/32	1 7/32	11 11/16
JHWHW-6070	2 3/16	3 9/32	1 1/4	12
JHWHW-6076	2 3/8	3 13/32	1 7/16	12 3/8
JHWHW-6082	2 9/16	3 3/4	1 17/32	12 11/16
JHWHW-6088	2 3/4	4 11/64	1 17/32	13 1/16
JHWHW-6094	2 15/16	4 23/64	1 17/32	13 7/16
JHWHW-6100	3 1/8	4 31/64	1 5/8	13 13/16
JHWHW-6112	3 1/2	4 31/32	1 23/32	14 1/8
JHWHW-6124	3 7/8	5 35/64	1 23/32	14 1/2

JHWHW-6034

Features

- Designed for use in the petrochemical industries where clearance, particularly on flanges, and cored fasteners are often a problem:
- 6 Point Hex is offset 15 degree, and short handle length allows for use in tight spaces
- Straight Handle transfers maximum torque when struck
- Assortment fits Stud Sizes up to 2 ½"

USA
Made in U.S.A.

WARNING

JHWWS-476

ADJUSTABLE PIN SPANNER WRENCHES

Industrial Black Finish, SAE

Product Code	Span Diameter (Inches)	Pin Diameter (Inches)	Pin Length (Inches)	Overall Length (Inches)
JHWO-471	¾ to 2	⅛	⅛	5 ⅜
JHWO-471A	¾ to 2	3/16	5/32	5 ⅜
JHWO-472	1 ¼ to 3	3/16	3/16	6 ⅞
JHWO-472A	1 ¼ to 3	¼	7/32	6 ⅞
JHWO-474	2 to 4 ¾	¼	¼	9 ½
JHWO-474A	4 ½ to 6 ¼	⅜	¼	9 ⅞

JHWWS-476

6-Piece Adjustable Pin Spanner Wrench Set, in Pouch

Contents Include:

Product Code	Overall Length (Inches)	Product Code	Overall Length (Inches)
JHWO-471	5 ⅜	JHWO-472A	6 ⅞
JHWO-471A	5 ⅜	JHWO-474	9 ½
JHWO-472	6 ⅞	JHWO-474A	9 ⅞

Features

- Ideal for adjusting collars, lock nut rings, and bearings
- Specifically engineered to hold up under the most rigorous industrial use

Made in U.S.A.

JHWWS-474

ADJUSTABLE HOOK SPANNER WRENCHES

Industrial Black Finish, SAE

Product Code	Span Diameter (Inches)	Hook Depth (Inches)	Hook Thickness (Inches)	Overall Length (Inches)
JHW471	¾ to 2	⅛	11/32	5 ⅜
JHW472	1 ¼ to 3	5/32	13/32	7 ¼
JHW474	2 to 4 ¾	3/16	15/32	11 ½
JHW474A	4 ½ to 6 ¼	¼	15/32	17 ½
JHW474B	6 ⅛ to 8 ¾	5/16	15/32	18 ½

JHWWS-474

4-Piece Adjustable Hook Spanner Wrench Set, in Pouch

Contents Include:

Product Code	Overall Length (Inches)	Product Code	Overall Length (Inches)
JHW471	5 ⅜	JHW474	11 ½
JHW472	7 ¼	JHW474A	17 ½

Features

- Ideal for adjusting collars, lock nut rings, and bearings
- Specifically engineered to hold up under the most rigorous industrial use

Made in U.S.A.

JHWWS-483

ADJUSTABLE FACE SPANNER WRENCHES

Industrial Black Finish, SAE

Product Code	Span Diameter (Inches)	Pin Diameter (Inches)	Pin Length (Inches)	Overall Length (Inches)
JHW482	2	3/16	¼	6 ¼
JHW483	3	¼	¼	8 ⅛
JHW484	4	5/16	½	10 ⅜

JHWWS-483

3-Piece Adjustable Face Spanner Wrench Set, in Pouch

Contents Include:

Product Code	Overall Length (Inches)	Product Code	Overall Length (Inches)
JHW482	6 ¼	JHW484	10 ⅜
JHW483	8 ⅛		

Features

- Ideal for adjusting collars, lock nut rings, and bearings
- Specifically engineered to hold up under the most rigorous industrial use

Made in U.S.A.

T-HANDLE HEX DRIVERS

Cushion Grip Handle, SAE and Metric

Product Code	Size (Inches)	Product Code	Size (MM)
JHWHKT-3/32	3/32	JHWHKT-2MM	2
JHWHKT-7/64	7/64	JHWHKT-2.5MM	2.5
JHWHKT-1/8	1/8	JHWHKT-3MM	3
JHWHKT-9/64	9/64	JHWHKT-4MM	4
JHWHKT-5/32	5/32	JHWHKT-5MM	5
JHWHKT-3/16	3/16	JHWHKT-6MM	6
JHWHKT-7/32	7/32	JHWHKT-8MM	8
JHWHKT-1/4	1/4	JHWHKT-10MM	10
JHWHKT-5/16	5/16		
JHWHKT-3/8	3/8		

Features

- Cushion grip provides extra comfort
- One-Piece handle construction for extra strength
- 6 Inch shaft length

JHWHKT-1/4

JHWHKT-6MM

JHWWSHKT-10
10 Piece T-Handle Hex Driver Set, SAE in Pouch

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (MM)
JHWHKT-3/32	3/32	JHWHKT-5/32	5/32	JHWHKT-1/4	1/4
JHWHKT-7/64	7/64	JHWHKT-3/16	3/16	JHWHKT-5/16	5/16
JHWHKT-1/8	1/8	JHWHKT-7/32	7/32	JHWHKT-3/8	3/8
JHWHKT-9/64	9/64				

JHWWSHKT-10

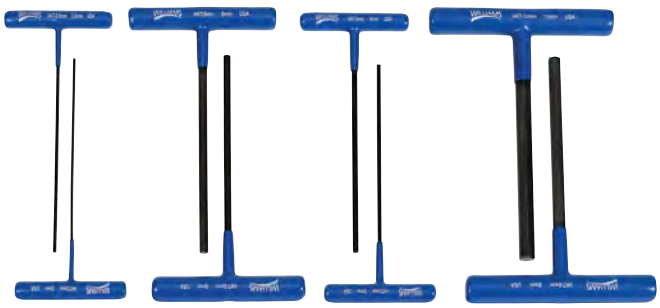
JHWMWSHKT-8
8 Piece T-Handle Hex Driver Set, MM in Pouch

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)
JHWHKT-2MM	2	JHWHKT-5MM	5
JHWHKT-2.5MM	2.5	JHWHKT-6MM	6
JHWHKT-3MM	3	JHWHKT-8MM	8
JHWHKT-4MM	4	JHWHKT-10MM	10

Features

- Set comes in pouch for tool box or can be hung



JHWMWSHKT-8

Universal Hex Key Stand

Product Code	Size
JHWHKTSTAND	Width 7 ½ x Depth 5 ½ x Height 6

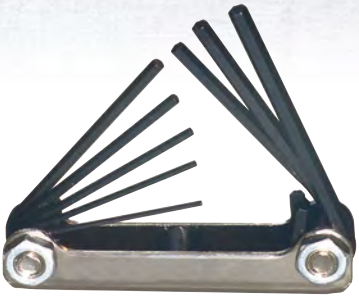
Features

- Universal T-handle stand, fits inch/metric sets
- Number of slots: 22
- Fits up to 3/8" hex
- For Inch, Metric and Torx hex keys
- Can be attached to wall, bench or each other
- T-handle hex drivers are sold separately and are not included with stand
- 6" overall length

Made in U.S.A.

JHWHKTSTAND

WARNING



JHWWS-45

JHWWS-46

JHWMWS-47

FOLDING HEX KEY SETS

SAE and Metric

Product Code	JHWWS-45		JHWWS-46		JHWMWS-47	
Number of Pieces	8		9		7	
	Hex Size (Inches)	Key Length (Inches)	Hex Size (Inches)	Key Length (Inches)	Includes Hex Size (MM)	Key Length (Inches)
	.050	1 1/4	5/64	1 1/2	1.5	1 3/8
	1/16	1 3/8	3/32	1 9/16	2	1 1/2
	5/64	1 7/16	7/64	1 11/16	2.5	1 5/8
	3/32	1 9/16	1/8	1 15/16	3	1 3/4
	7/64	1 5/8	9/64	2	4	2
	1/8	1 11/16	5/32	2 1/4	5	2 1/4
	9/64	1 13/16	3/16	2 1/2	6	2 1/2
	5/32	2	7/32	2 5/8		
			1/4	2 7/8		

Features

- Steel case is chrome plated to resist corrosion
- Keys are black oxide finish
- Convenient item for pocket or tool box

Made in U.S.A.

BALL END AND STANDARD HEX KEY SETS

SAE and Metric, in Handy Compact Plastic Holder

Product Code	Number of Pieces	Type	Key Style	Key Length	Size Range
JHW10107	7	SAE	Standard	Short	5/64 - 1/4"
JHW10111	11	SAE	Standard	Short	.050 - 1/4"
JHW10113	13	SAE	Standard	Short	.050 - 3/8"
JHW10213	13	SAE	Standard	Long	.050 - 3/8"
JHW10507	7	Metric	Standard	Short	1.5 - 6.0 mm
JHW10509	9	Metric	Standard	Short	1.5 - 10.0 mm
JHW13213	13	SAE	Ball Hex	Long	.050 - 3/8"
JHW13609	9	Metric	Ball Hex	Long	1.5 - 10.0 mm

Features

- Plastic holders organize hex keys securely in place.
- Keys are black oxide finish.
- Holders are color coded, red for fractional and blue for metric.
- Ball hex key ends are designed with ball on long arm to provide 360° of rotation at up to a 30° angle.

Made in U.S.A.

JHW10509

JHW10213

HEX KEY SETS IN POUCH

SAE and Metric

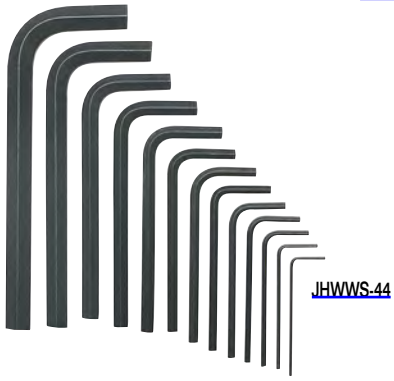
Product Code	JHWWS-44		JHWMWS-27	
Number of Pieces	13		11	
	Hex Size (Inches)	Key Length (Inches)	Hex Size (MM)	Key Length (Inches)
	.050	1 11/16	2	2
	1/16	1 13/16	2 1/2	2 5/16
	5/64	1 31/32	3	2 7/32
	3/32	2 1/8	4	2 13/16
	7/64	2 1/4	5	3 5/16
	1/8	2 3/8	6	3 23/32
	9/64	2 9/16	8	4 1/16
	5/32	2 19/32	10	4 5/8
	3/16	3	12	5 7/32
	7/32	3 3/16	14	5 15/16
	1/4	3 1/2	17	6 7/8
	5/16	4		
	3/8	4 17/32		

Features

- Pouch keeps hex keys organized.
- Keys are black oxide finish.

Made in U.S.A.

JHWMWS-27



JHWWS-44

L-TYPE HEX KEYS

Industrial Black Finish, SAE

Product Code	Size (Inches)	Length (Inches)	Width (Inches)	Pkg. Qty.
JHWHK-050	.050	1 23/32	1/2	25
JHWHK-1/16	1/16	1 7/8	1/2	25
JHWHK-5/64	5/64	1 31/32	5/8	25
JHWHK-3/32	3/32	1 13/16	9/16	25
JHWHK-7/64	7/64	2 1/4	23/32	25
JHWHK-1/8	1/8	2 13/32	3/4	25
JHWHK-9/64	9/64	2 3/8	25/32	25
JHWHK-5/32	5/32	2 21/32	27/32	25
JHWHK-3/16	3/16	2 31/32	1	25
JHWHK-7/32	7/32	3 5/16	1	25
JHWHK-1/4	1/4	3 5/8	1 1/8	25
JHWHK-3/8	3/8	4 23/32	1 13/32	5

Features

- Keys are black oxide finish.

Made in U.S.A.

L-TYPE HEX KEYS

Industrial Black Finish, Metric

Product Code	Size (MM)	Length (Inches)	Width (Inches)	Pkg. Qty.
JHWHK-2mm	2	2	5/8	25
JHWHK-2.5mm	2 1/2	2 1/4	23/32	25
JHWHK-3mm	3	2 9/16	13/16	25
JHWHK-4mm	4	2 13/16	31/32	25
JHWHK-5mm	5	3 13/32	1 1/8	25
JHWHK-6mm	6	3 3/4	1 1/8	10
JHWHK-8mm	8	4 5/16	1 1/8	5
JHWHK-10mm	10	4 3/4	1 1/2	5
JHWHK-12mm	12	5 1/4	1 5/8	5
JHWHK-14mm	14	6	1 1/2	5
JHWHK-17mm	17	6 3/4	2 1/2	1

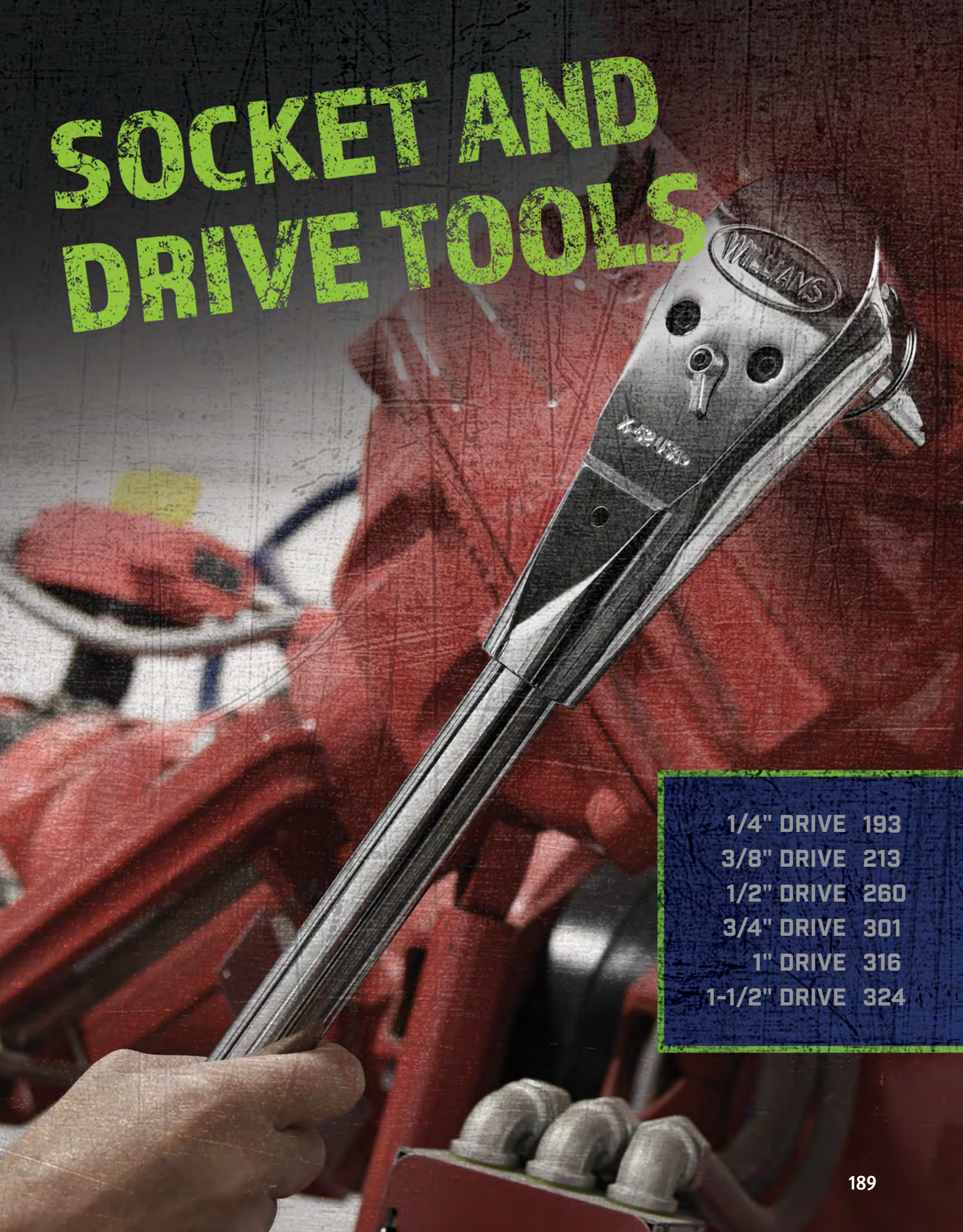
Features

- Keys are black oxide finish.

Made in U.S.A.

WARNING

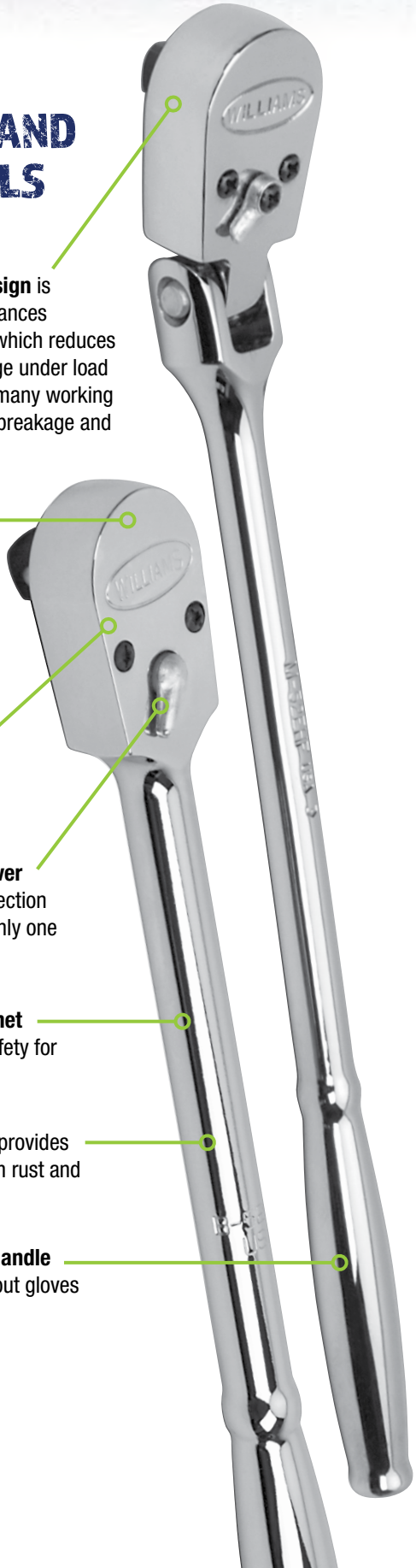
SOCKET AND DRIVE TOOLS



1/4" DRIVE 193
3/8" DRIVE 213
1/2" DRIVE 260
3/4" DRIVE 301
1" DRIVE 316
1-1/2" DRIVE 324

WILLIAMS®

RATCHETS AND DRIVE TOOLS



Single pawl ratchet design is designed for tighter tolerances between pawl and gear which reduces metal fatigue and slippage under load and does not require as many working parts, reducing possible breakage and parts to repair

Enclosed head prevents dust, dirt, and liquids from entering head, preserving internal lubrication

36-tooth gear with 10° of engagement allowing easier ratcheting in tight conditions

Easy access reverse lever for changing working direction quickly and easily with only one hand

Forged, one-piece ratchet provides strength and safety for industrial applications

Nickel/Chrome plating provides increased protection from rust and corrosion

Smooth, comfort-grip handle permits all-day use without gloves

CHROME SOCKETS

SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener

Chrome finish feature mirror-like exterior that can be easily cleaned after each use

Extruded or hot broached from alloy steel, precision machined and fully heat treated

Chamfered ends provides easy engagement of the drive tool and fastener

EXTENSIONS AND ACCESSORIES

Ball and spring socket retention

SOCKET AND DRIVE TOOLS

HEAVY-DUTY FASTENER MANAGEMENT

IMPACT SOCKETS

SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener

Designed for maximum engagement on 6 point fasteners

Heavy Duty - suitable for use with pneumatic and electric impact wrenches

Specially heat treated for impact use to provide long life, safety, and durability

FLEXTENSIONS

7/32" cross hole & bevel on drive end has a for ease of use

Up to 30° angle offset

Socket retention pin is TIG welded, providing full rotation power to the socket

SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener

Durable black oxide finish

TURBOSOCKET® SALVAGE SOCKETS

- **Quickly and easily remove damaged or rounded nuts and bolts**
- **For use with ratchet, breaker bar or T-handle**
- **Grip on fastener tightens** as more torque is applied
- **No hammering is required** to install socket over fastener
- **Use on all types of standard nuts and bolts** as well as studs, pipe nipples, and corroded auto and marine fasteners
- **May be used for "best fit"** on metric and fractional fasteners
- **May be used with air or electric impact wrench** for extra speed and turning power

MULTI DRIVE SOCKET & DRIVE TOOL SETS

Product Code	Description
JHW50614B	146 Piece ¼", ⅜", ½" Drive Socket Set 6 Point Rugged Case System Tool Set, SAE & Metric Complete details on page 197, 222, 267
JHW50612B	138 Piece ¼", ⅜", ½" Drive Socket Set 6 Point Rugged Case System Tool Set, SAE & Metric Complete details on page 198, 223, 268
JHW50611B	95 Piece ¼" & ⅜" Drive Master Socket, Wrench, and Screwdriver Set 6 & 12 Point Rugged Case System Tool Set, SAE Complete details on page 199, 224
JHW50622B	89 Piece ¼" & ⅜" Drive Master Socket and Tool Set 6 & 12 Point Rugged Case System Tool Set, Metric Complete details on page 200, 255
JHW50681	32 Piece ¼" & ⅜" Drive Bit Socket Set 6 Point Compact Case Tool Set, SAE & Metric Complete details on page 202

Features

- Sets include comprehensive assortment of sockets and drive tools in multiple drive sizes
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Rugged case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two component handles are easy to grip and comfortable to carry

JHW50614B

JHW50612B

JHW50611B

JHW50622B

JHW50681

⚠WARNING

38 PIECE 1/4" DRIVE SOCKET & DRIVE TOOL SET

JHWWSM38HFTB

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

6 & 8 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSM38HFTB	38 Piece Tool Set with TB-103 Metal Tool Box
JHWWSM-38HF	38 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWM-52EHA	5 1/2" Enclosed Head Ratchet
JHWM-42A	Flex Handle
JHWM-102	2" Extension
JHWM-104	4" Extension
JHWM-115	6" Extension

Shallow 6-Point Sockets

Product Code	Size (Inches)
JHWM-605	5/32
JHWM-606	3/16
JHWM-607	7/32
JHWM-608	1/4
JHWM-609	9/32
JHWM-610	5/16
JHWM-611	11/32
JHWM-612	3/8
JHWM-614	7/16
JHWM-616	1/2
JHWM-618	9/16

Shallow 8-Point Sockets

Product Code	Size (Inches)
JHWM-808	1/4
JHWM-810	5/16
JHWM-812	3/8

Drive Tools:

Product Code	Description
JHWM-106A	Spinner Handle
JHWM-140A	Universal Joint
JHW30008	Sliding T-Handle
JHWMFE-6	6" Flexible Extension

Deep 6-Point Sockets

Product Code	Size (Inches)
JHWMD-606	3/16
JHWMD-607	7/32
JHWMD-608	1/4
JHWMD-609	9/32
JHWMD-610	5/16
JHWMD-611	11/32
JHWMD-612	3/8
JHWMD-614	7/16
JHWMD-616	1/2
JHWMD-618	9/16

Screwdriver Bit Sockets

Product Code	Description
JHW35051	#1 Phillips® Tip
JHW35052	#2 Phillips® Tip
JHW35040	5/32" Slotted Tip
JHW35041	7/32" Slotted Tip
JHW35042	9/32" Slotted Tip

Made in U.S.A.

26 PIECE 1/4" DRIVE SOCKET AND DRIVE TOOL SET

JHWWSM26HFTB

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

6 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSM26HFTB	26 Piece Tool Set with TB-102 Metal Tool Box
JHWWSM-26HF	26 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWM-52EHA	5 1/2" Enclosed Head Ratchet
JHWM-102	2" Extension
JHWM-115	6" Extension

Shallow 6-Point Sockets

Product Code	Size (Inches)
JHWM-605	5/32
JHWM-606	3/16
JHWM-607	7/32
JHWM-608	1/4
JHWM-609	9/32
JHWM-610	5/16
JHWM-611	11/32
JHWM-612	3/8
JHWM-614	7/16
JHWM-616	1/2
JHWM-618	9/16

Drive Tools:

Product Code	Description
JHWM-106A	Spinner Handle
JHWM-140A	Universal Joint

Deep 6-Point Sockets

Product Code	Size (Inches)
JHWMD-606	3/16
JHWMD-607	7/32
JHWMD-608	1/4
JHWMD-609	9/32
JHWMD-610	5/16
JHWMD-611	11/32
JHWMD-612	3/8
JHWMD-614	7/16
JHWMD-616	1/2
JHWMD-618	9/16

Made in U.S.A.

22 PIECE 1/4" DRIVE SOCKET AND DRIVE TOOL SET

6 12 F

6 & 12 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSM-22FTB	22 Piece Tool Set with TB-102 Metal Tool Box
JHWWSM-22F	22 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWM-52EHA	5 1/2" Enclosed Head Ratchet
JHWM-102	2" Extension
JHWM-106A	Spinner Handle
JHWM-140A	Universal Joint

Shallow 6-Point Sockets

Product Code	Size (Inches)
JHWM-605	5/32
JHWM-606	3/16
JHWM-608	1/4

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWM-1210	5/16
JHWM-1211	11/32
JHWM-1212	3/8
JHWM-1214	7/16
JHWM-1216	1/2
JHWM-1218	9/16

Deep 6-Point Sockets

Product Code	Size (Inches)
JHWMD-605	5/32
JHWMD-606	3/16
JHWMD-608	1/4

Deep 12-Point Sockets

Product Code	Size (Inches)
JHWMD-1210	5/16
JHWMD-1211	11/32
JHWMD-1212	3/8
JHWMD-1214	7/16
JHWMD-1216	1/2
JHWMD-1218	9/16

JHWWSM-22FTB

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

USA Made in U.S.A.

19 PIECE 1/4" DRIVE SOCKET AND DRIVE TOOL SET

6 8 F

6 & 8 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSM19HFTB	19 Piece Tool Set with TB-101 Metal Tool Box
JHWWSM-19HF	19 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWM-52EHA	5 1/2" Enclosed Head Ratchet
JHWM-102	2" Extension
JHWM-115	6" Extension
JHWM-106A	Spinner Handle
JHWM-140A	Universal Joint
JHWM-42A	Flex Handle

Shallow 8-Point Sockets

Product Code	Size (Inches)
JHWM-808	1/4
JHWM-810	5/16
JHWM-812	3/8

Shallow 6-Point Sockets

Product Code	Size (Inches)
JHWM-606	3/16
JHWM-607	7/32
JHWM-608	1/4
JHWM-609	9/32
JHWM-610	5/16
JHWM-611	11/32
JHWM-612	3/8
JHWM-614	7/16
JHWM-616	1/2
JHWM-618	9/16

JHWWSM19HFTB

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

USA Made in U.S.A.

WARNING

JHWWSM15HFTB

15 PIECE 1/4" DRIVE SOCKET AND DRIVE TOOL SET

6 F

6 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSM15HFTB	15 Piece Tool Set with TB-101 Metal Tool Box
JHWWSM-15HF	15 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWM-52EHA	5 1/2" Enclosed Head Ratchet
JHWM-102	2" Extension
JHWM-115	6" Extension
JHWM-106A	Spinner Handle
JHWM-140A	Universal Joint

Shallow 6-Point Sockets

Product Code	Size (Inches)
JHWM-606	3/16
JHWM-607	7/32
JHWM-608	1/4
JHWM-609	9/32
JHWM-610	5/16
JHWM-611	11/32
JHWM-612	3/8
JHWM-614	7/16
JHWM-616	1/2
JHWM-618	9/16

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

JHWWSM-13FTB

13 PIECE 1/4" DRIVE SOCKET AND DRIVE TOOL SET

6 12 F

6 & 12 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSM-13FTB	13 Piece Tool Set with TB-101 Metal Tool Box
JHWWSM-13F	13 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWM-52EHA	5 1/2" Enclosed Head Ratchet
JHWM-102	2" Extension
JHWM-106A	Spinner Handle
JHWM-140A	Universal Joint

Shallow 6-Point Sockets

Product Code	Size (Inches)
JHWM-605	5/32
JHWM-606	3/16

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWM-1208	1/4
JHWM-1210	5/16
JHWM-1211	11/32
JHWM-1212	3/8
JHWM-1214	7/16
JHWM-1216	1/2
JHWM-1218	9/16

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

30 PIECE 1/4" DRIVE SOCKET AND DRIVE TOOL SET

6 Point Metric, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWMSM30HFTB	30 Piece Metric Tool Set with TB-103 Metal Tool Box
JHWMSM-30HF	30 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description	Product Code	Description
JHWM-52EHA	5 1/2" Enclosed Head Ratchet	JHWM-106A	Spinner Handle
JHWM-102	2" Extension	JHWM-140A	Universal Joint
JHWM-115	6" Extension	JHWM-42A	Flex Handle

Shallow 6-Point Sockets / **Deep 6-Point Sockets**

Product Code	Size (MM)	Product Code	Size (MM)
JHWMM-604	4	JHWMMD-604	4
JHWMM-605	5	JHWMMD-605	5
JHWMM-605.5	5 1/2	JHWMMD-605.5	5 1/2
JHWMM-606	6	JHWMMD-606	6
JHWMM-607	7	JHWMMD-607	7
JHWMM-608	8	JHWMMD-608	8
JHWMM-609	9	JHWMMD-609	9
JHWMM-610	10	JHWMMD-610	10
JHWMM-611	11	JHWMMD-611	11
JHWMM-612	12	JHWMMD-612	12
JHWMM-613	13	JHWMMD-613	13
JHWMM-614	14	JHWMMD-614	14

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

JHWMSM30HFTB

17 PIECE 1/4" DRIVE SOCKET AND DRIVE TOOL SET

6 Point Metric, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWMSM17HFTB	17 Piece Metric Tool Set with TB-101 Metal Tool Box
JHWMSM-17HF	17 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description	Product Code	Description
JHWM-52EHA	5-½" Enclosed Head Ratchet	JHWM-106A	Spinner Handle
JHWM-102	2" Extension	JHWM-140A	Universal Joint
JHWM-115	6" Extension		

Shallow 6-Point Sockets

Product Code	Size (MM)	Product Code	Size (MM)
JHWMM-604	4	JHWMM-609	9
JHWMM-605	5	JHWMM-610	10
JHWMM-605.5	5.5	JHWMM-611	11
JHWMM-606	6	JHWMM-612	12
JHWMM-607	7	JHWMM-613	13
JHWMM-608	8	JHWMM-614	14

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

JHWMSM17HFTB

WARNING

JHW50614B

146 PIECE 1/4", 3/8", 1/2" DRIVE SOCKET AND DRIVE TOOL SET

6 12 M F

6 & 12 Point Rugged-Case-System Tool Set, SAE and Metric

Product Code	Description
JHW50614B	146 Piece 1/4", 3/8", 1/2" Drive Socket Set

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

1/4" Drive Contents Include:

1/4" Drive Tools

Ratchet
3" Extension
Handle
Universal Joint

1/4" Drive Deep 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
4	3/16
5	7/32
6	1/4
7	9/32
8	5/16
9	11/32
10	3/8
11	7/16
12	1/2
13	

1/4" Drive Shallow 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
4	5/32
5	3/16
5.5	7/32
6	1/4
7	9/32
8	5/16
9	11/32
10	3/8
11	7/16
12	1/2
13	9/16
14	

1/4" Drive Hex Bit Sockets

Metric Size (MM)	SAE Size (Inches)
3	1/8
4	5/32
5	3/16
6	7/32
7	1/4
8	5/16

1/4" Drive Screw-driver Bit Sockets

Size	Size
5/32" Slotted Tip	#0 Phillips Tip
7/32" Slotted Tip	#1 Phillips Tip
9/32" Slotted Tip	#2 Phillips Tip

1/4" Drive Torx Bit Sockets

Size	Size
T10	T25
T15	T27
T20	T30

3/8" Drive Contents Include:

3/8" Drive Tools

Ratchet
3" Extension
6" Extension
Adaptor - 3/8" F x 1/4" M

3/8" Drive Deep 12 Point Sockets

Metric Size (MM)	SAE Size (Inches)
6	1/4
7	5/16
8	3/8
9	7/16
10	1/2
11	9/16
12	5/8
13	11/16
14	3/4
15	13/16
16	7/8
17	15/16
18	1
19	

3/8" Drive Shallow 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
6	1/4
7	5/16
8	3/8
9	7/16
10	1/2
11	9/16
12	5/8
13	11/16
14	3/4
15	13/16
16	7/8
17	15/16
18	1
19	

3/8" Drive Spark Plug Socket

SAE Size (Inches)
5/8
13/16

1/2" Drive Contents Include:

1/2" Drive Tools

Ratchet
6" Extension
10" Extension
Universal Joint
Adaptor - 1/2" F x 3/8" M

1/2" Drive Shallow 12 Point Sockets

SAE Size (Inches)
3/8
7/16
1/2
9/16
5/8
11/16
3/4
13/16
7/8
15/16
1

138 PIECE 1/4", 3/8", 1/2" DRIVE SOCKET AND DRIVE TOOL SET

6 Point Rugged-Case-System Tool Set, SAE and Metric

Product Code	Description
JHW50612B	138 Piece 1/4", 3/8", 1/2" Drive Socket Set

1/4" Drive Contents Include:

1/4" Drive Tools

Ratchet
1 ½" Extension
3" Extension
Spinner Handle
Universal Joint
Hex Bit Holder
13 Piece Insert Bit Set

1/4" Drive Deep 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
4	5/32
5	3/16
6	7/32
7	1/4
8	9/32
9	5/16
10	11/32
11	3/8
12	7/16
13	1/2

1/4" Drive Shallow 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
4	5/32
5	3/16
5.5	7/32
6	1/4
7	9/32
8	5/16
9	11/32
10	3/8
11	7/16
12	1/2
13	

3/8" Drive Contents Include:

3/8" Drive Tools

Ratchet
3" Extension
6" Extension
Universal Joint
Adaptor
Hex Bit Holder

3/8" Drive Deep 12 Point Sockets

Metric Size (MM)	SAE Size (Inches)
10	3/8
11	7/16
12	1/2
13	9/16
14	5/8
15	11/16
16	3/4
17	13/16
18	7/8
19	

3/8" Drive Shallow 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
10	3/8
11	7/16
12	1/2
13	9/16
14	5/8
15	11/16
16	3/4
17	
18	
19	

1/2" Drive Contents Include:

1/2" Drive Tools

Ratchet
6" Extension
10" Extension
Universal Joint
Adaptor

1/2" Drive 12 Point Sockets

Metric Size (MM)	SAE Size (Inches)
10	3/8
11	7/16
12	1/2
13	9/16
14	5/8
15	11/16
16	3/4
17	13/16
18	7/8
19	15/16
21	1
22	1 1/16
24	1 1/8
27	1 3/16
30	1 1/4
32	

JHW50612B

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

⚠WARNING

JHW50611B

95 PIECE 1/4" & 3/8" DRIVE MASTER SOCKET AND TOOL SET

6 12 M F

6 & 12 Point Rugged-Case-System Tool Set, SAE

Product Code	Description
JHW50611B	95 Piece Master Socket, Wrench, and Screwdriver Set

1/4" Drive Contents Include:

1/4" Drive Tools

36 Tooth Quick-Release Ratchet
1 1/2" Extension
3" Extension
Flex Handle
Spinner Handle
Universal Joint
1/4" F x 3/8" M Adapter

1/4" Drive Shallow 6-Point Sockets

SAE Size (Inches)
3/16
7/32
1/4
9/32
5/16
11/32
3/8
7/16
1/2
9/16

1/4" Drive Deep 6 Point Sockets

SAE Size (Inches)
3/16
7/32
1/4
9/32
5/16
11/32
3/8
7/16
1/2
9/16

1/4" Drive Hex Bit Sockets

Metric Size (MM)	SAE Size (Inches)
3	1/8
4	5/32
5	3/16
6	7/32
7	1/4
8	5/16

1/4" Drive Screwdriver Bit Sockets

Size	Size
5/32" Slotted Tip	#0 Phillips Tip
7/32" Slotted Tip	#1 Phillips Tip
9/32" Slotted Tip	#2 Phillips Tip

1/4" Drive Torx Bit Sockets

Size	Size
T10	T25
T15	T27
T20	T30

3/8" Drive Contents Include:

3/8" Drive Tools

38 Tooth Quick-Release Ratchet
3" Extension
6" Extension
10" Extension
10" Flex Handle
Universal Joint
Sliding T-Handle
3/8" F x 1/4" M Adapter
3/8" F x 1/2" M Adapter

3/8" Drive Shallow 6-Point Sockets

SAE Size (Inches)
3/16
7/16
1/2
9/16
5/8
11/16
3/4
13/16
7/8
15/16
1

3/8" Drive Deep 12 Point Sockets

SAE Size (Inches)
3/16
7/16
1/2
9/16
5/8
11/16
3/4
13/16
7/8
15/16
1

Other Contents Include:

Comfort Grip Screwdrivers

3/16" x 4" Slotted
1/4" x 4" Slotted
#1 x 3" Phillips®
#2 x 4" Phillips®

12 Point Combination Wrenches

SAE Size (Inches)
1/4
5/16
3/8
7/16
1/2
9/16
5/8
11/16
3/4

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

WILLIAMS

89 PIECE 1/4" & 3/8" DRIVE MASTER SOCKET AND TOOL SET

6 & 12 Point Rugged-Case-System Tool Set, Metric

Product Code	Description
JHW50622B	89 Piece Master Socket, Wrench and Screwdriver Set

1/4" Drive Contents Include:

1/4" Drive Tools

36 Tooth Quick-Release Ratchet
1 ½" Extension
3" Extension
Flex Handle
Spinner Handle
Universal Joint
¼" F x ⅜" M Adapter

1/4" Drive Shallow 6-Point Sockets

Metric Size (MM)
4
5
5.5
6
7
8
9
10
11
12
13
14

1/4" Drive Hex Bit Sockets

Metric Size (MM)	SAE Size (Inches)
3	⅛
4	5/32
5	3/16
6	7/32
7	¼
8	5/16

1/4" Drive Screwdriver Bit Sockets

Size	Size
5/32" Slotted Tip	#0 Phillips Tip
7/32" Slotted Tip	#1 Phillips Tip
9/32" Slotted Tip	#2 Phillips Tip

1/4" Drive Torx Bit Sockets

Size	Size
T10	T25
T15	T27
T20	T30

3/8" Drive Contents Include:

3/8" Drive Tools

38 Tooth Quick-Release Ratchet
3" Extension
6" Extension
10" Extension
10" Flex Handle
Universal Joint
Sliding T-Handle
⅜" F x ¼" M Adapter
⅜" F x ½" M Adapter

3/8" Drive Shallow 6-Point Sockets

Metric Size (MM)
8
9
10
11
12
13
14
15
16
17
18
19

3/8" Drive Deep 12-Point Sockets

Metric Size (MM)
8
9
10
11
12
13
14
15
16
17
18
19

Other Contents Include:

Comfort Grip Screwdrivers

3/16" x 4" Slotted
¼" x 4" Slotted
#1 x 3" Phillips®
#2 x 4" Phillips®

12 Point Combination Wrenches

Metric Size (MM)
6
8
10
12
13
14
15
17
19

JHW50622B

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

⚠WARNING

JHW50602B

67 PIECE 1/4" DRIVE SOCKET AND DRIVE TOOL SET

6 M F

6 Point Rugged-Case-System Tool Set, SAE and Metric

Product Code	Description
JHW50602B	67 Piece 1/4" Drive Socket Set

Contents Include:

1/4" Drive Tools

- Ratchet
- Flex Handle
- 4" Extension
- 8" Extension
- 18" Sliding T-handle
- Universal Joint
- Spinner Disc

1/4" Drive Shallow 6-Point Sockets

Metric Size (MM)	SAE Size (Inches)
4	3/16
5	7/32
5.5	1/4
6	9/32
7	5/16
8	11/32
9	3/8
10	7/16
11	1/2
12	9/16
13	
14	

1/4" Drive Deep 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
4	3/16
5	7/32
6	1/4
7	9/32
8	5/16
9	11/32
10	3/8
11	7/16
12	1/2
13	9/16

1/4" Drive Hex Bit Sockets

Metric Size (MM)	SAE Size (Inches)
3	1/8
4	5/32
5	3/16
6	7/32
7	1/4
8	5/16

1/4" Drive Slotted Bit Sockets, SAE

Size
5/32
7/32
9/32

1/4" Drive Phillips Bit Sockets, SAE

Size
#0
#1
#2

JHW50601B

47 PIECE 1/4" DRIVE SOCKET AND DRIVE TOOL SET

6 M F

6 Point Rugged-Case-System Tool Set, SAE and Metric

Product Code	Description
JHW50601B	47 Piece Deluxe 6-Point 1/4" Drive Socket Set

Contents Include:

1/4" Drive Tools

- 36 Tooth Quick-Release Ratchet
- Flex Handle
- 1 ½" Extension
- 3" Extension
- Spinner Handle
- Universal Joint
- Ratchet Spinner

1/4" Drive Shallow 6-Point Sockets

Metric Size (MM)	SAE Size (Inches)
4	3/16
5	7/32
5.5	1/4
6	9/32
7	5/16
8	11/32
9	3/8
10	7/16
11	1/2
12	9/16
13	
14	

1/4" Drive Hex Bit Sockets

Metric Size (MM)	SAE Size (Inches)
3	1/8
4	5/32
5	3/16
6	7/32
7	1/4
8	5/16

Screwdriver Bit Sockets

Size
5/32" Slotted Tip
7/32" Slotted Tip
9/32" Slotted Tip
#0 Phillips® Tip
#1 Phillips® Tip
#2 Phillips® Tip

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

36 PIECE 1/4" DRIVE SOCKET AND DRIVE TOOL SET

6 Point Rugged-Case-System Tool Set, Metric

Product Code	Description
JHW50604B	36 Piece Socket Set

Contents Include:

1/4" Drive Tools
Ratchet
1 ½" Extension
6" Extension
Universal Joint
Sliding T-Handle
Spinner Handle

1/4" Drive Shallow 6 Point Sockets
Metric Size (MM)
4
4.5
5
6
7
8
9
10
11
12
13

1/4" Drive Phillips® Sockets
#1
#2
#3

1/4" Drive Slotted Sockets
Metric Size (MM)
4
5.5
7

1/4" Drive Hex Bit Sockets
3
4
6
8

1/4" Drive TORX® Bit Sockets
T8
T10
T15
T20
T25
T27
T30

JHW50604B

32 PIECE 1/4" & 3/8" DRIVE BIT SOCKET SET

6 Point Compact Case Tool Set, SAE and Metric

Product Code	Description
JHW50681	32 Piece 1/4" & 3/8" Drive Bit Socket Set

Contents Include:

3/8" Drive Hex Bit Sockets	
Metric Size (MM)	SAE Size (Inches)
4	1/8
5	9/64
6	5/32
7	3/16
8	7/32
9	1/4
10	5/16
	3/8

3/8" Drive Phillips® Sockets
#1
#2
#3

3/8" Drive Slotted Sockets
SAE Size (Inches)
1/4
5/16
3/8
3/16

1/4" Drive TORX® Bit Sockets
T10
T15
T20
T25
T27
T30

3/8" Drive TORX® Bit Sockets
T40
T45
T47
T50

JHW50681

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged compact high-density polyethylene (HDPE) cases that are strong and durable yet light in weight

⚠WARNING

JHW50661B

JHW50662B

JHW50672A

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged compact high-density polyethylene (HDPE) cases that are strong and durable yet light in weight

27 PIECE 1/4" DRIVE SOCKET AND DRIVE TOOL SET

6 M F

6 Point Compact Case Tool Set, SAE and Metric

Product Code	Description
JHW50661B	27 Piece 1/4" Drive Socket and Drive Tool Set

Contents Include:

1/4" Drive Tools:
5 1/4" Pear Head Ratchet
1 1/2" Extension
6" Extension
Spinner Handle
Universal Joint

1/4" Drive Shallow 6 Point Sockets:	
Metric Size (MM)	SAE Size (Inches)
4	3/16
5	7/32
5.5	1/4
6	9/32
7	5/16
8	11/32
9	3/8
10	7/16
11	1/2
12	9/16
13	
14	

21 PIECE 1/4" DRIVE SOCKET AND DRIVE TOOL SET

6 F

6 Point Compact Case Tool Set, SAE

Product Code	Description
JHW50662B	21 Piece 1/4" Drive Socket and Drive Tool Set

Contents Include:

1/4" Drive Tools:
5 1/4" Pear Head Ratchet
1 1/2" Extension
3" Extension
6" Extension
Spinner Handle

1/4" Drive Shallow 6 Point Sockets
SAE Size (Inches)
3/16
7/32
1/4
9/32
5/16
11/32
3/8
7/16
1/2

1/4" Drive Deep 6 Point Sockets
SAE Size (Inches)
1/4
9/32
5/16
11/32
3/8
7/16
1/2

27 PIECE 1/4" DRIVE SOCKET AND DRIVE TOOL SET

12 M F

12 Point Compact Case Tool Set, SAE and Metric

Product Code	Description
JHW50672A	27 Piece 1/4" Drive Socket and Drive Tool Set

Contents Include:

1/4" Drive Tools:
5 1/4" Pear Head Ratchet
1 1/2" Extension
6" Extension
Spinner Handle
Universal Joint

1/4" Drive Shallow 12 Point Sockets
SAE Size (Inches)
3/16
7/32
1/4
9/32
5/16
11/32
3/8
7/16
1/2
9/16

1/4" Drive Shallow 12 Point Sockets
Metric Size (MM)
4
5
6
7
8
9
10
11
12
13
14

1/4" DRIVE ENCLOSED HEAD RATCHETS

Sealed Narrow Head Design, Chrome and Black Industrial Finish

Product Code	Description	Length (Inches)	Number of Teeth
JHWM-52EHA	Chrome Finish Enclosed Head Ratchet	5 1/4	36
JHWM-52EHFA	Chrome Finish Flex Head Ratchet	7	36
JHWMB-52EHA	Black Industrial Finish Enclosed Head Ratchet	5 1/4	36
JHWM-52EHRKA	Repair Kit for Enclosed Head Ratchets		

Fed. Spec: ANSI B107.10M

Features

- Enclosed head is sealed to prevent dust, dirt, and liquids from entering head, preserving internal lubrication
- Forged one-piece ratchet provide strength and safety for industrial applications
- 36 tooth gear with 10 degree of engagement allows engagement in tight working areas
- Nickel/Chrome plating provides increase protection from rust and corrosion
- Chrome finish models feature mirror-like exterior that can be easily cleaned after each use
- Single Pawl ratchet design:
  - Designed for tighter tolerances between pawl and gear which reduces metal fatigue and slippage under load
  - Does not require as many working parts, reducing possible breakage and parts to repair
- Easy access reverse lever allows user to change working direction quickly and easily with only one hand

Made in U.S.A.

1/4" DRIVE ROUND HEAD RATCHET

High-Polished Chrome Finish

Product Code	Description	Length (Inches)	Number of Teeth
JHWM-52A	Chrome Finish Round Head Ratchet	5	40
JHWM-52ARK	Repair Kit for Round Head Ratchet		

Fed. Spec: ANSI B107.10M

Features

- Double pawl design with 40 teeth action provides a 5° ratcheting angle
- Shift lever reverses action instantly
- Knurled handle provides a non-slip grip
- Chrome plating provides increased protection from rust and corrosion

Made in U.S.A.

1/4" DRIVE HANDLES

High-Polished Chrome Finish

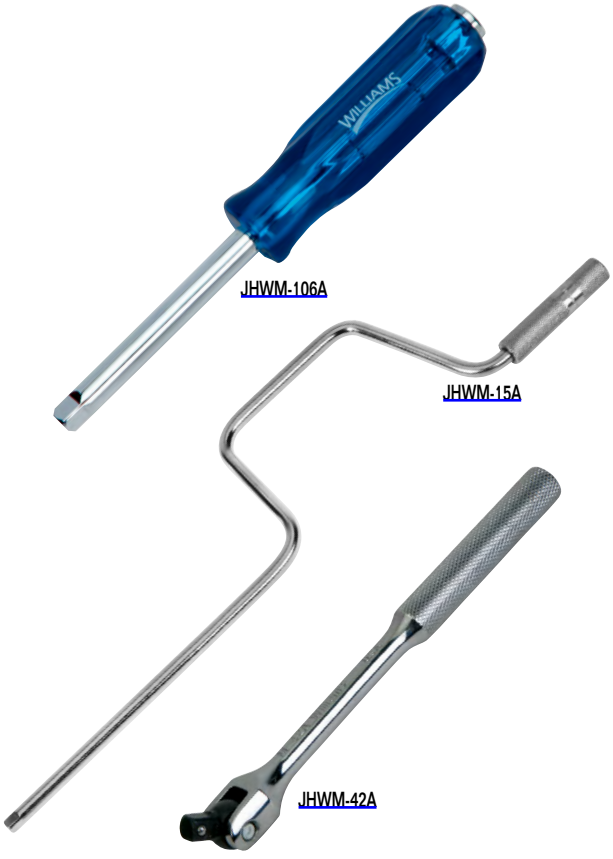
Product Code	Description	Length (Inches)
JHWM-106A	Spinner Handle	6
JHWM-15A	Speeder Handle	15 1/2
JHWM-42A	Flex Handle Breaker Bar	5 3/4
JHWM-42RK	Repair Kit for Flex Handle	

Fed. Spec: ANSI B107.10M

Features

- Chrome plating provides increased protection from rust and corrosion
- Drive handles provide extra leverage with greater strength than ratchets
- Spinner handle features 1/4" drive female handle end

Made in U.S.A.



WARNING

1/4" DRIVE EXTENSIONS

High-Polished Chrome Finish

Product Code	Description	Length (Inches)
JHWM-102	Extension	2
JHWM-104	Extension	4
JHWM-115	Extension	6
JHWM-110	Extension	10
JHWM-124	Extension	24
JHWMFE-6	Flexible Extension	6
JHWM-140A	Universal Joint	1 7/16

Fed. Spec: ANSI B107.10M

Features

- Chrome plating provides increased protection from rust and corrosion
- Flexible extension is designed for low torque applications in limited access areas
- Ball and spring socket retention

Made in U.S.A.

1/4" DRIVE ADAPTORS

High-Polished Chrome and Black Industrial Finish

Product Code	Length (Inches)	Male End (Inches)	Female End (Inches)
Chrome Finish			
JHWMB-130	1	3/8	1/4
Black Finish			
JHWMB-130B	1	3/8	1/4
JHWMB-131BA	1 1/8	1/4	3/8

Fed. Spec: ANSI B107.10M

Features

- Ball and spring socket retention

Made in U.S.A.

1/4" DRIVE SLIDING T-HANDLE AND SPINNER HANDLE

High-Polished Chrome Finish

Product Code	Description	Length (Inches)
JHW30008	Sliding T-Handle	4 1/2
JHW30006A	Spinner Handle	6 3/8

Fed. Spec: ANSI B107.10M

Features

- Ball and spring socket retention
- High-polished chrome finish for easy cleaning
- Spinner handle features three component comfort grip handle

6 PIECE 1/4" DRIVE RATCHET AND DRIVE TOOL SET

Furnished in a Pouch

Product Code	Description
JHWDTM-6	6 Piece 1/4" Drive Ratchet and Accessory Set

Contents Include:

Product Code	Description	Product Code	Description
JHWM-52EHA	36 Tooth Quick-Release Ratchet	JHWM-42A	Flex Handle
JHWM-102	1 1/2" Extension	JHWM-106A	Spinner Handle
JHWM-115	6" Extension	JHWM-140A	Universal Joint

Features

- All tools are professional quality, made of high-grade chrome vanadium steel

JHWDTM-6

1/4" WOBBLE EXTENSIONS

High-Polished Chrome Finish

Product Code	Length (Inches)
JHWM-202	2
JHWM-203	3
JHWM-206	6
JHWM-211	11

Fed. Spec: ANSI B107.10M

Features

- Chrome plating provides increased protection from rust and corrosion
- Provides 16 degrees of additional accessibility

JHWM-203

JHWM-202

JHWM-206

1/4" DRIVE EXTENSIONS AND ACCESSORIES

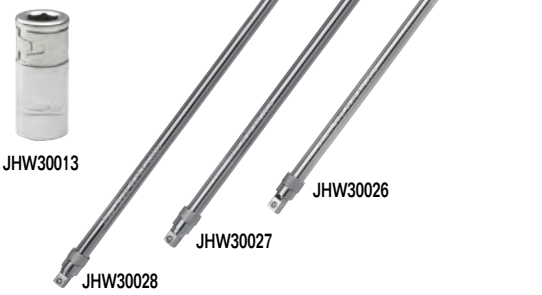
High-Polished Chrome Finish

Product Code	Description	Length (Inches)
JHW30013	Holder for 1/4" Hex Screwdriver Bits	3/4
JHW30023	Locking Extension	4
JHW30024	Locking Extension	6
JHW30025	Locking Extension	10
JHW30026	Locking Extension	12
JHW30027	Locking Extension	18
JHW30028	Locking Extension	24

Fed. Spec: ANSI B107.10M

Features

- Chrome plating provides increased protection from rust and corrosion
- Ball and spring socket retention



JHW30013

JHW30026

JHW30027

JHW30028

1/4" DRIVE SHALLOW 12 POINT SOCKETS, SAE

High-Polished Chrome Finish

		A	B	C	D	E		F
Product Code	Size (Inches)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)
JHWM-1208	1/4	7/8	15/32	3/8	7/32	17/32	7/32	7/16
JHWM-1210	5/16	7/8	15/32	15/32	9/32	17/32	7/32	-
JHWM-1211	11/32	7/8	1/2	1/2	9/32	17/32	11/32	-
JHWM-1212	3/8	7/8	17/32	17/32	9/32	17/32	3/8	-
JHWM-1214	7/16	7/8	19/32	19/32	3/8	17/32	7/16	-
JHWM-1216	1/2	7/8	11/16	11/16	3/8	17/32	1/2	-
JHWM-1218	9/16	29/32	3/4	3/4	3/8	17/32	7/32	-

Fed. Spec: ANSI B107.110

JHWM-1212

JHWM-1208

JHWWSM-7RC 7 Piece 1/4" Drive Shallow 12-Point Socket Set on Clip Rail

Contents Include:

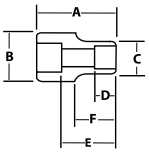
Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWM-1208	1/4	JHWM-1211	11/32	JHWM-1214	7/16	JHWM-1218	9/16
JHWM-1210	5/16	JHWM-1212	3/8	JHWM-1216	1/2		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

Made in U.S.A.

JHWWSM-7RC



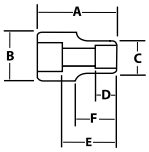
WARNING

JHWM-610 JHWM-606

JHWWSM-11HRC

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners



JHWMD-1216 JHWMD-1210

JHWM-810

JHWWSMD-6RC

JHWWSM-20RC

1/4" DRIVE SHALLOW SOCKETS, 6 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Dia. (Inches)	C Working End Dia. (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Dia. (Inches)	F Nose Length (Inches)
JHWM-604	1/8	7/8	15/32	7/32	1/8	17/32	1/8	7/16
JHWM-605	5/32	7/8	15/32	7/32	1/8	17/32	5/32	7/16
JHWM-606	3/16	7/8	15/32	7/32	1/8	17/32	3/16	7/16
JHWM-607	7/32	7/8	15/32	7/32	1/8	17/32	7/32	7/16
JHWM-608	1/4	7/8	15/32	7/32	1/8	17/32	7/32	7/16
JHWM-609	9/32	7/8	15/32	7/32	1/8	17/32	1/4	7/16
JHWM-610	5/16	7/8	15/32	7/32	1/8	17/32	1/4	7/16
JHWM-611	11/32	7/8	1/2	1/2	11/32	17/32	11/32	-
JHWM-612	3/8	7/8	9/16	9/16	15/32	17/32	3/8	-
JHWM-614	7/16	7/8	5/8	5/8	15/32	17/32	7/16	-
JHWM-616	1/2	7/8	11/16	11/16	15/32	17/32	1/2	-
JHWM-618	9/16	29/32	3/4	3/4	1/2	17/32	17/32	-
JHWM-620	5/8	31/32	27/32	27/32	9/16	5/8	9/16	-

Fed. Spec: ANSI B107.110

JHWWSM-11HRC 11 Piece 1/4" Drive Shallow 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWM-605	5/32	JHWM-608	1/4	JHWM-611	11/32	JHWM-616	1/2
JHWM-606	3/16	JHWM-609	9/32	JHWM-612	3/8	JHWM-618	9/16
JHWM-607	7/32	JHWM-610	5/16	JHWM-614	7/16		

Made in U.S.A.

1/4" DRIVE SHALLOW SOCKETS, 8 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Dia. (Inches)	C Working End Dia. (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Dia. (Inches)	F Nose Length (Inches)
JHWM-808	1/4	7/8	15/32	7/16	1/4	17/32	1/4	7/16
JHWM-810	5/16	7/8	9/16	9/16	9/32	17/32	1/4	-
JHWM-812	3/8	7/8	21/32	21/32	5/16	17/32	3/8	-

Made in U.S.A.

1/4" DRIVE DEEP SOCKETS, 12 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter(Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWMD-1210	5/16	2	15/32	7/16	9/32	1 11/16	9/32	1 9/16
JHWMD-1211	11/32	2	1/2	1/2	9/32	1 21/32	11/32	-
JHWMD-1212	3/8	2	17/32	17/32	9/32	1 21/32	3/8	-
JHWMD-1214	7/16	2	19/32	19/32	3/8	1 21/32	13/32	-
JHWMD-1216	1/2	2	11/16	11/16	3/8	1 21/32	15/32	-
JHWMD-1218	9/16	2	3/4	3/4	3/8	1 21/32	17/32	-

Fed. Spec: ANSI B107.110

JHWWSMD-6RC 6 Piece 1/4" Drive Deep 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWMD-1210	5/16	JHWMD-1212	3/8	JHWMD-1216	1/2
JHWMD-1211	11/32	JHWMD-1214	7/16	JHWMD-1218	9/16

JHWWSM-20RC 25 Piece 1/4" Drive Shallow & Deep Sockets on Clip Rails

Contents Include:

12-Point Deep Sockets Product Code	Size (Inches)	12-Point Shallow Sockets Product Code	Size (Inches)
JHW30406	3/16	JHW30206	3/16
JHW30407	7/32	JHW30207	7/32
JHW30408	1/4	JHWM-1208	1/4
JHW30409	9/32	JHW30209	9/32
JHWMD-1210	5/16	JHWM-1210	5/16
JHWMD-1211	11/32	JHWM-1211	11/32
JHWMD-1212	3/8	JHWM-1212	3/8
JHWMD-1214	7/16	JHWM-1214	7/16
JHWMD-1216	1/2	JHWM-1216	1/2
JHWMD-1218	9/16	JHWM-1218	9/16

Made in U.S.A.

1/4" DRIVE DEEP SOCKETS, 6 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWMD-605	5/32	2	15/32	9/32	5/32	5/32	1 9/16
JHWMD-606	3/16	2	15/32	5/16	3/16	3/16	1 9/16
JHWMD-607	7/32	2	15/32	11/32	7/32	7/32	1 9/16
JHWMD-608	1/4	2	15/32	3/8	7/32	7/32	1 9/16
JHWMD-609	9/32	2	15/32	13/32	1/4	9/32	1 9/16
JHWMD-610	5/16	2	15/32	7/16	9/32	9/32	1 9/16
JHWMD-611	11/32	2	1/2	1/2	9/32	11/32	-
JHWMD-612	3/8	2	17/32	17/32	9/32	3/8	-
JHWMD-614	7/16	2	19/32	19/32	3/8	13/32	-
JHWMD-616	1/2	2	11/16	11/16	3/8	15/32	-
JHWMD-618	9/16	2	3/4	3/4	3/8	17/32	-

Fed. Spec: ANSI B107.110

JHWMD-605 JHWMD-618

JHWWSMD10HRC 10 Piece 1/4" Drive Deep 6 Point Socket Set on Clip Rail

Contents Include:

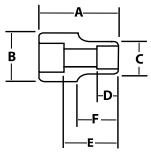
Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWMD-606	3/16	JHWMD-609	9/32	JHWMD-612	3/8	JHWMD-618	9/16
JHWMD-607	7/32	JHWMD-610	5/16	JHWMD-614	7/16		
JHWMD-608	1/4	JHWMD-611	11/32	JHWMD-616	1/2		

JHWWSMD10HRC

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners

Made in U.S.A.



1/4" DRIVE SHALLOW SOCKETS, 6 POINT, METRIC

High-Polished Chrome Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWMM-604	4	7/8	15/32	9/32	3/16	17/32	5/32	7/16
JHWMM-605	5	7/8	15/32	5/16	3/16	17/32	5/32	7/16
JHWMM-605.5	5.5	7/8	15/32	11/32	3/16	17/32	7/32	7/16
JHWMM-606	6	7/8	15/32	3/8	7/32	17/32	7/32	7/16
JHWMM-607	7	7/8	15/32	13/32	1/4	17/32	1/4	7/16
JHWMM-608	8	7/8	15/32	15/32	9/32	17/32	1/4	7/16
JHWMM-609	9	7/8	1/2	1/2	1/2	17/32	5/16	-
JHWMM-610	10	7/8	9/16	9/16	1/2	17/32	3/8	-
JHWMM-611	11	7/8	19/32	19/32	1/2	17/32	13/32	-
JHWMM-612	12	7/8	21/32	21/32	1/2	17/32	7/16	-
JHWMM-613	13	7/8	23/32	23/32	15/32	17/32	15/32	-
JHWMM-614	14	29/32	3/4	3/4	1/2	17/32	17/32	-

Fed. Spec: ANSI B107.110

JHWMM-608 JHWMM-604

JHWMSM-12HRC 12 Piece 1/4" Drive Shallow 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWMM-604	4	JHWMM-606	6	JHWMM-609	9	JHWMM-612	12
JHWMM-605	5	JHWMM-607	7	JHWMM-610	10	JHWMM-613	13
JHWMM-605.5	5 1/2	JHWMM-608	8	JHWMM-611	11	JHWMM-614	14

JHWMSM-12HRC

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners

Made in U.S.A.

WARNING

JHW30608 JHW30604

1/4" DRIVE SHALLOW SOCKETS, 12 POINT, METRIC

High-Polished Chrome Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW30604A	4	1	15/32	1/4	1/4	19/32		1/2
JHW30605A	5	1	15/32	5/16	5/16	19/32		1/2
JHW30699A	5.5	1	15/32	11/32	15/32	19/32		1/2
JHW30606A	6	1	15/32	11/32	5/16	19/32		1/2
JHW30607A	7	1	15/32	7/16	5/16	15/32		1/2
JHW30608A	8	1	15/32	15/32	3/8	1/2		-
JHW30609A	9	1	17/32	17/32	3/8	21/32		-
JHW30610A	10	1	19/32	19/32	1/2	7/8		-
JHW30611A	11	1	5/8	5/8	17/32	7/8		-
JHW30612A	12	1	11/16	11/16	1/2	7/8		-
JHW30613A	13	1	23/32	23/32	1/2	7/8		-
JHW30614A	14	1	3/4	3/4	1/2	7/8		-

Fed. Spec: ANSI B107.110

JHW30925

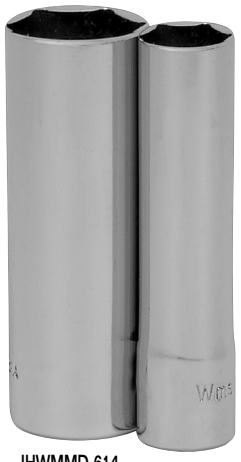
JHW30925 12 Piece 1/4" Drive Shallow 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW30604	4	JHW30606	6	JHW30609	9	JHW30612	12
JHW30605	5	JHW30607	7	JHW30610	10	JHW30613	13
JHW30699	5.5	JHW30608	8	JHW30611	11	JHW30614	14

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 12 point fasteners



JHWMMD-614 JHWMMD-606

1/4" DRIVE DEEP SOCKETS, 6 POINT, METRIC

High-Polished Chrome Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWMMD-604	4	2	15/32	9/32	3/16	1 21/32	1/8	1 9/16
JHWMMD-605	5	2	15/32	5/16	3/16	1 21/32	5/32	1 9/16
JHWMMD-605.5	5.5	2	15/32	5/16	7/32	1 21/32	7/32	1 9/16
JHWMMD-606	6	2	15/32	3/8	7/32	1 21/32	7/32	1 9/16
JHWMMD-607	7	2	15/32	13/32	1/4	1 21/32	1/4	1 9/16
JHWMMD-608	8	2	15/32	15/32	9/32	1 21/32	1/4	1 9/16
JHWMMD-609	9	2	1/2	1/2	9/32	1 21/32	5/16	-
JHWMMD-610	10	2	9/16	9/16	9/32	1 21/32	3/8	-
JHWMMD-611	11	2	19/32	19/32	3/8	1 21/32	13/32	-
JHWMMD-612	12	2	21/32	21/32	3/8	1 21/32	7/16	-
JHWMMD-613	13	2	23/32	23/32	3/8	1 21/32	15/32	-
JHWMMD-614	14	2	3/4	3/4	7/16	1 21/32	17/32	-

Fed. Spec: ANSI B107.110

JHWMSMD12HRC

JHWMSMD12HRC 12 Piece 1/4" Drive Deep 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWMMD-604	4	JHWMMD-606	6	JHWMMD-609	9	JHWMMD-612	12
JHWMMD-605	5	JHWMMD-607	7	JHWMMD-610	10	JHWMMD-613	13
JHWMMD-605.5	5.5	JHWMMD-608	8	JHWMMD-611	11	JHWMMD-614	14

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners

Made in U.S.A.

1/4" DRIVE DEEP SOCKETS, 12 POINT, METRIC

High-Polished Chrome Finish

		A	B	C	D	E		F
Product Code	Size (MM)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)
JHW30804	4	2	15/32	9/32	3/16	1 21/32	1/8	15/16
JHW30805	5	2	15/32	5/16	3/16	1 21/32	5/32	15/16
JHW30855	5.5	2	15/32	5/16	7/32	1 21/32	7/32	15/16
JHW30806	6	2	15/32	3/8	7/32	1 21/32	7/32	15/16
JHW30807	7	2	15/32	13/32	1/4	1 21/32	1/4	15/16
JHW30808	8	2	15/32	15/32	9/32	1 21/32	1/4	15/16
JHW30809	9	2	1/2	1/2	9/32	1 21/32	5/16	-
JHW30810	10	2	9/16	9/16	9/32	1 21/32	3/8	-
JHW30811	11	2	19/32	19/32	3/8	1 21/32	13/32	-
JHW30812	12	2	21/32	21/32	3/8	1 21/32	7/16	-
JHW30813	13	2	23/32	23/32	3/8	1 21/32	15/32	-
JHW30814	14	2	3/4	3/4	7/16	1 21/32	17/32	-

Fed. Spec: ANSI B107.110

JHW30808 JHW30804

JHW30941 12 Piece 1/4" Drive Deep 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW30804	4	JHW30806	6	JHW30809	9	JHW30812	12
JHW30805	5	JHW30807	7	JHW30810	10	JHW30813	13
JHW30855	5.5	JHW30808	8	JHW30811	11	JHW30814	14

JHW30941

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on both 6 and 12 point fasteners

1/4" DRIVE STANDARD LENGTH HEX BIT SOCKETS, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Replacement Bit Product Code
JHWMA-050A	.050	7/8	15/32	1 1/2	JHWBITH05001
JHWMA-2A	1/16	7/8	15/32	1 1/2	JHWBITH0201
JHWMA-2 1/2A	5/64	7/8	15/32	1 1/2	JHWBITH2.501
JHWMA-3A	3/32	7/8	15/32	1 1/2	JHWBITH0301
JHWMA-3 1/2A	7/64	7/8	15/32	1 1/2	JHWBITH3.501
JHWMA-4A	1/8	7/8	15/32	1 1/2	JHWBITH0401
JHWMA- 4 1/2A	9/64	7/8	15/32	1 1/2	JHWBITH4.501
JHWMA-5A	5/32	7/8	15/32	1 1/2	JHWBITH0501
JHWMA-6A	3/16	7/8	15/32	1 1/2	JHWBITH0601
JHWMA-7A	7/32	7/8	15/32	1 1/2	JHWBITH0701
JHWMA-8A	1/4	7/8	15/32	1 1/2	JHWBITH0801
JHWMA-10A	5/16	7/8	15/32	1 1/2	JHWBITH1001

JHWMA-4A

JHWWSM-11TRC 11 Piece Hex Bit Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWMA-2A	1/16	JHWMA-4A	1/8	JHWMA-7A	7/32
JHWMA-2 1/2A	5/64	JHWMA-4 1/2A	9/64	JHWMA-8A	1/4
JHWMA-3A	3/32	JHWMA-5A	5/32	JHWMA-10A	5/16
JHWMA-3 1/2A	7/64	JHWMA-6A	3/16		

JHWWSM-11TRC

Features

- High-polished chrome finish socket cleans easily
- Two piece design allows bits to be replaced easily

Made in U.S.A.

WARNING

JHWMA-5LA

JHWWSMS-9LRC

1/4" DRIVE LONG HEX BIT SOCKETS, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Replacement Bit Product Code
JHWMA-3LA	3/32	7/8	15/32	3	JHWBITH0302
JHWMA-3½LA	7/64	7/8	15/32	3	JHWBITH3.502
JHWMA-4LA	1/8	7/8	15/32	3	JHWBITH0402
JHWMA-4½LA	9/64	7/8	15/32	3	JHWBITH4.502
JHWMA-5LA	5/32	7/8	15/32	3	JHWBITH0502
JHWMA-6LA	3/16	7/8	15/32	3	JHWBITH0602
JHWMA-7LA	7/32	7/8	15/32	3	JHWBITH0702
JHWMA-8LA	1/4	7/8	15/32	3	JHWBITH0802
JHWMA-10LA	5/16	7/8	15/32	3	JHWBITH1002

JHWWSMS-9LRC 9 Piece Long Hex Bit Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWMA-3LA	3/32	JHWMA-4½LA	9/64	JHWMA-7LA	7/32
JHWMA-3½LA	7/64	JHWMA-5LA	5/32	JHWMA-8LA	1/4
JHWMA-4LA	1/8	JHWMA-6LA	3/16	JHWMA-10LA	5/16

Features

- High-polished chrome finish socket cleans easily
- Two piece design allows bits to be replaced easily

Made in U.S.A.

JHW35070

JHW30904

1/4" DRIVE STANDARD LENGTH HEX BIT SOCKETS, METRIC

High-Polished Chrome Finish

Product Code	Size (MM)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Bit Length (Inches)
JHW35070	3	13/16	15/32	1 13/32	5/8
JHW35071	4	13/16	15/32	1 13/32	5/8
JHW35072	5	13/16	15/32	1 13/32	5/8
JHW35073	6	13/16	15/32	1 13/32	5/8
JHW35074	7	13/16	15/32	1 13/32	5/8
JHW35075	8	13/16	15/32	1 13/32	5/8

JHW30904 6 Piece Hex Bit Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW35070	3	JHW35072	5	JHW35074	7
JHW35071	4	JHW35073	6	JHW35075	8

Features

- High-polished chrome finish socket cleans easily

JHWMA-3HBA

JHWWSM-7HBA

1/4" DRIVE BALL TIP HEX BIT SOCKETS, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Replacement Bit Product Code (Inches)
JHWMA-3HBA	3/32	7/8	15/32	1 ½	JHWBITHB0301
JHWMA-4HBA	1/8	7/8	15/32	1 ½	JHWBITHB0401
JHWMA4½HBA	9/64	7/8	15/32	1 ½	JHWBITHB4.501
JHWMA-5HBA	5/32	7/8	15/32	1 ½	JHWBITHB0501
JHWMA-6HBA	3/16	7/8	15/32	1 ½	JHWBITHB0601
JHWMA-7HBA	7/32	7/8	15/32	1 ½	JHWBITHB0701
JHWMA-8HBA	1/4	7/8	15/32	1 ½	JHWBITHB0801

JHWWSM-7HBA 7 Piece Ball Tip Hex Bit Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWMA-3HBA	3/32	JHWMA-5HBA	5/32	JHWMA-8HBA	1/4
JHWMA-4HBA	1/8	JHWMA-6HBA	3/16		
JHWMA4½HBA	9/64	JHWMA-7HBA	7/32		

Features

- High-polished chrome finish socket cleans easily
- Two piece design allows bits to be replaced easily

Made in U.S.A.

1/4" DRIVE STUBBY HEX BIT SOCKETS, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Replacement Bit Product Code
JHWMA-4SA	1/8	7/8	15/32	1 1/16	JHWTMAXS4E2
JHWMA-4.5SA	9/64	7/8	15/32	1 1/16	JHWTMAXS45E2
JHWMA-5SA	5/32	7/8	15/32	1 1/16	JHWTMAXS5E2
JHWMA-6SA	3/16	7/8	15/32	1 1/16	JHWTMAXS6E2

JHWMA-4SA

JHWWSM-4TRC 4 Piece Stubby Hex Bit Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHWMA-4SA	1/8	JHWMA-5SA	5/32
JHWMA-4.5SA	9/64	JHWMA-6SA	3/16

JHWWSM-4TRC

Features

- High-polished chrome finish socket cleans easily
- Two piece design allows bits to be replaced easily
- Extra-short bits provide access in confined areas

Made in U.S.A.

1/4" DRIVE TORX® BIT SOCKETS

High-Polished Chrome Finish

Product Code	Torx® Size	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Bit Length (Inches)
JHW35079	T8	13/16	1/2	1 13/32	5/8
JHW35080	T10	13/16	1/2	1 13/32	5/8
JHW35081	T15	13/16	1/2	1 13/32	5/8
JHW35082	T20	13/16	1/2	1 13/32	5/8
JHW35083	T25	13/16	1/2	1 13/32	5/8
JHW35084	T27	13/16	1/2	1 13/32	5/8
JHW35085	T30	13/16	1/2	1 13/32	5/8

JHW35080

JHW30908 6 Piece Torx® Bit Socket Set on Clip Rail

Contents Include:

Product Code	Torx® Size	Product Code	Torx® Size	Product Code	Torx® Size
JHW35080	T10	JHW35082	T20	JHW35084	T27
JHW35081	T15	JHW35083	T25	JHW35085	T30

JHW30908

Features

- High-polished chrome finish socket cleans easily

1/4" DRIVE SCREWDRIVER BIT SOCKETS

High-Polished Chrome Finish, Phillips® and Slotted

Product Code	Tip Size (Inches)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Bit Length (Inches)
Slotted Bits:					
JHW35040	5/32	13/16	15/32	1 13/32	5/8
JHW35041	7/32	13/16	15/32	1 13/32	5/8
JHW35042	9/32	13/16	15/32	1 13/32	5/8
Phillips® Bits:					
JHW35050	#0	13/16	15/32	1 13/32	5/8
JHW35051	#1	13/16	15/32	1 13/32	5/8
JHW35052	#2	13/16	15/32	1 13/32	5/8
JHW35053	#3	13/16	15/32	1 13/32	5/8

JHW30906

JHW30906 6 Piece Screwdriver Bit Socket Set on Clip Rail

Contents Include:

Product Code	Tip Size (Inches)	Product Code	Tip Size (Inches)	Product Code	Tip Size
JHW35040	5/32	JHW35042	9/32	JHW35051	#1
JHW35041	7/32	JHW35050	#0	JHW35052	#2

Features

- High-polished chrome finish socket cleans easily

WARNING

56 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

8 & 12 Point SAE, with Metal Box

Product Code	Description
JHWWSB-56FTB	56 Piece Tool Set with TB-104 Metal Tool Box (Keep-Safe-Foam is not included)
JHWWSB-56F	56 Piece Tool Set Only Packed in Keep-Safe-Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWB-52EHA	8" Enclosed Head Ratchet
JHWB-108	3" Extension
JHWB-110	6" Extension
JHWB-115	11" Extension

Drive Tools:

Product Code	Description
JHWB-40B	8 9/16" Flex Handle
JHWB-140A	Universal Joint
JHWB-20A	Sliding T-Handle

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWB-1208	1/4
JHWB-1210	5/16
JHWB-1212	3/8
JHWB-1214	7/16
JHWB-1216	1/2
JHWB-1218	9/16
JHWB-1220	5/8
JHWB-1222	11/16
JHWB-1224	3/4
JHWB-1226	13/16
JHWB-1228	7/8
JHWB-1230	15/16
JHWB-1232	1

Deep 12-Point Sockets

Product Code	Size (Inches)
JHWBD-1212	3/8
JHWBD-1214	7/16
JHWBD-1216	1/2
JHWBD-1218	9/16
JHWBD-1220	5/8
JHWBD-1222	11/16
JHWBD-1224	3/4
JHWBD-1226	13/16
JHWBD-1228	7/8
JHWBD-1230	15/16
JHWBD-1232	1

Shallow 8-Point Sockets

Product Code	Size (Inches)
JHWBD-808	1/4
JHWBD-810	5/16
JHWBD-812	3/8
JHWBD-814	7/16
JHWBD-816	1/2

Shallow 12-Point Universal Sockets

Product Code	Size (Inches)
JHWBU-1212	3/8
JHWBU-1214	7/16
JHWBU-1216	1/2
JHWBU-1218	9/16
JHWBU-1220	5/8
JHWBU-1222	11/16
JHWBU-1224	3/4

Standard Hex Bit Sockets

Product Code	Size (Inches)
JHWBA-4A	1/8
JHWBA-5A	5/32
JHWBA-6A	3/16
JHWBA-7A	7/32
JHWBA-8A	1/4
JHWBA-10A	5/16
JHWBA-12A	3/8

Screwdriver Bit Sockets

Product Code	Size
JHWBA-7A-2S	7/32" x .040"
JHWBA-10A-3S	9/32" x .045"
JHWBA-10A-4S	5/16" x .055"
JHWBA-7A-2P	#2
JHWBA-10A-3P	#3
JHWBA-12A-4P	#4

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

JHWWSB-56FTB

32 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

8 & 12 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSB-32FTB	32 Piece Tool Set with TB-104 Metal Tool Box
JHWWSB-32F	32 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWB-52EHA	8" Enclosed Head Ratchet
JHWB-108	3" Extension
JHWB-110	6" Extension

Drive Tools:

Product Code	Description
JHWB-115	11" Extension
JHWB-40B	8 9/16" Flex Handle
JHWB-140A	Universal Joint

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWB-1212	3/8
JHWB-1214	7/16
JHWB-1216	1/2
JHWB-1218	9/16
JHWB-1220	5/8
JHWB-1222	11/16
JHWB-1224	3/4
JHWB-1226	13/16
JHWB-1228	7/8

Deep 12-Point Sockets

Product Code	Size (Inches)
JHWBD-1212	3/8
JHWBD-1214	7/16
JHWBD-1216	1/2
JHWBD-1218	9/16
JHWBD-1220	5/8
JHWBD-1222	11/16
JHWBD-1224	3/4
JHWBD-1226	13/16
JHWBD-1228	7/8

Shallow 8-Point Sockets

Product Code	Size (Inches)
JHWBD-808	1/4
JHWBD-810	5/16
JHWBD-812	3/8

Shallow 12-Point Universal Sockets

Product Code	Size (Inches)
JHWBU-1212	3/8
JHWBU-1214	7/16
JHWBU-1216	1/2
JHWBU-1218	9/16
JHWBU-1220	5/8

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

JHWWSB-32FTB

WARNING

28 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

JHWWSB-28FTB

12 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSB-28FTB	28 Piece Tool Set with TB-104 Metal Tool Box
JHWWSB-28F	28 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWB-52EHA	8" Enclosed Head Ratchet
JHWB-108	3" Extension
JHWB-110	6" Extension

Drive Tools:

Product Code	Description
JHWB-40B	8 9/16" Flex Handle
JHWB-140A	Universal Joint

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWB-1208	1/4
JHWB-1210	5/16
JHWB-1211	11/32
JHWB-1212	3/8
JHWB-1214	7/16
JHWB-1216	1/2
JHWB-1218	9/16
JHWB-1220	5/8
JHWB-1222	11/16
JHWB-1224	3/4
JHWB-1226	13/16
JHWB-1228	7/8
JHWB-1230	15/16
JHWB-1232	1

Deep 12-Point Sockets

Product Code	Size (Inches)
JHWBD-1212	3/8
JHWBD-1214	7/16
JHWBD-1216	1/2
JHWBD-1218	9/16
JHWBD-1220	5/8
JHWBD-1222	11/16
JHWBD-1224	3/4
JHWBD-1226	13/16
JHWBD-1228	7/8

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

23 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

JHWWSB23HFTB

6 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSB23HFTB	23 Piece Tool Set with TB-102 Metal Tool Box
JHWWSB-23HF	23 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWB-52EHA	8" Enclosed Head Ratchet
JHWB-108	3" Extension
JHWB-110	6" Extension

Drive Tools:

Product Code	Description
JHWB-40B	8 9/16" Flex Handle
JHWB-140A	Universal Joint

Shallow 6-Point Sockets

Product Code	Size (Inches)
JHWB-612	3/8
JHWB-614	7/16
JHWB-616	1/2
JHWB-618	9/16
JHWB-620	5/8
JHWB-622	11/16
JHWB-624	3/4
JHWB-626	13/16
JHWB-628	7/8

Deep 6-Point Sockets

Product Code	Size (Inches)
JHWBD-612	3/8
JHWBD-614	7/16
JHWBD-616	1/2
JHWBD-618	9/16
JHWBD-620	5/8
JHWBD-622	11/16
JHWBD-624	3/4
JHWBD-626	13/16
JHWBD-628	7/8

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

23 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

12 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSB-23FTB	23 Piece Tool Set with TB-102 Metal Tool Box
JHWWSB-23F	23 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWB-52EHA	8" Enclosed Head Ratchet
JHWB-108	3" Extension
JHWB-110	6" Extension

Drive Tools:

Product Code	Description
JHWB-40B	8 9/16" Flex Handle
JHWB-140A	Universal Joint

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWB-1212	3/8
JHWB-1214	7/16
JHWB-1216	1/2
JHWB-1218	9/16
JHWB-1220	5/8
JHWB-1222	11/16
JHWB-1224	3/4
JHWB-1226	13/16
JHWB-1228	7/8

Deep 12-Point Sockets

Product Code	Size (Inches)
JHWBD-1212	3/8
JHWBD-1214	7/16
JHWBD-1216	1/2
JHWBD-1218	9/16
JHWBD-1220	5/8
JHWBD-1222	11/16
JHWBD-1224	3/4
JHWBD-1226	13/16
JHWBD-1228	7/8

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

JHWWSB-23FTB

15 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

12 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSB-15FTB	15 Piece Tool Set with TB-102 Metal Tool Box
JHWWSB-15F	15 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWB-52EHA	8" Enclosed Head Ratchet
JHWB-108	3" Extension
JHWB-110	6" Extension
JHWB-115	11" Extension
JHWB-40B	8 9/16" Flex Handle
JHWB-140A	Universal Joint

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWB-1212	3/8
JHWB-1214	7/16
JHWB-1216	1/2
JHWB-1218	9/16
JHWB-1220	5/8
JHWB-1222	11/16
JHWB-1224	3/4
JHWB-1226	13/16
JHWB-1228	7/8

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

JHWWSB-15FTB

WARNING

12 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

6 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSB12HFTB	12 Piece Tool Set with TB-101 Metal Tool Box
JHWWSB-12HF	12 Piece Tool Set Only - Packed in Keep Safe Foam System

JHWWSB12HFTB

Contents Include:

Drive Tools:

Product Code	Description
JHWB-52EHA	8" Enclosed Head Ratchet
JHWB-108	3" Extension
JHWB-110	6" Extension

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWB-612	3/8
JHWB-614	7/16
JHWB-616	1/2
JHWB-618	9/16
JHWB-620	5/8
JHWB-622	11/16
JHWB-624	3/4
JHWB-626	13/16
JHWB-628	7/8

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

29 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

6 & 12 Point SAE & Metric, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSMB29FTB	29 Piece Tool Set with TB-103 Metal Tool Box
JHWWSMB-29F	29 Piece Tool Set Only - Packed in Keep Safe Foam System

JHWWSMB29FTB

Contents Include:

Drive Tools:

Product Code	Description
JHWB-52EHA	8" Enclosed Head Ratchet
JHWB-108	3" Extension

Drive Tools:

Product Code	Description
JHWB-110	6" Extension
JHWB-140A	Universal Joint

Shallow 6-Point Sockets, SAE

Product Code	Size (Inches)
JHWB-608	1/4
JHWB-610	5/16
JHWB-612	3/8
JHWB-614	7/16
JHWB-616	1/2
JHWB-618	9/16

Shallow 6-Point Sockets, mm

Product Code	Metric Size (mm)
JHWBM-606	6
JHWBM-607	7
JHWBM-608	8
JHWBM-609	9
JHWBM-610	10
JHWBM-611	11
JHWBM-612	12
JHWBM-613	13
JHWBM-614	14
JHWBM-615	15
JHWBM-616	16
JHWBM-617	17
JHWBM-618	18
JHWBM-619	19

Shallow 12-point Sockets, SAE

Product Code	Size (Inches)
JHWB-1220	5/8
JHWB-1222	11/16
JHWB-1224	3/4
JHWB-1226	13/16
JHWB-1228	7/8

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

39 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

6 & 12 Point Metric, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWMSB-39FTB	39 Piece Tool Set with TB-104 Metal Tool Box
JHWMSB-39F	39 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWB-52EHA	8" Enclosed Head Ratchet
JHWB-108	3" Extension
JHWB-110	6" Extension
JHWB-115	11" Extension
JHWBFF-8	8" Flexible Extension
JHWB-40B	8 9/16" Flex Handle
JHWB-140A	Universal Joint

Deep 6-Point Sockets

Product Code	Size (MM)
JHWBMD-608	8
JHWBMD-609	9
JHWBMD-610	10
JHWBMD-611	11
JHWBMD-612	12
JHWBMD-613	13
JHWBMD-614	14
JHWBMD-615	15
JHWBMD-616	16
JHWBMD-617	17
JHWBMD-618	18
JHWBMD-619	19

Drive Tools:

Product Code	Description
JHWB-20A	Sliding T-Handle
JHWB-70	Ratchet Spinner

Shallow 12-Point Sockets

Product Code	Size (MM)
JHWBM-1206	6
JHWBM-1207	7
JHWBM-1208	8
JHWBM-1209	9
JHWBM-1210	10
JHWBM-1211	11
JHWBM-1212	12
JHWBM-1213	13
JHWBM-1214	14
JHWBM-1215	15
JHWBM-1216	16
JHWBM-1217	17
JHWBM-1218	18
JHWBM-1219	19
JHWBM-1220	20
JHWBM-1221	21
JHWBM-1222	22
JHWBM-1224	24

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

JHWMSB-39FTB

WARNING

JHWMSB29HFTB

29 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

6 M

6 Point Metric, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWMSB29HFTB	29 Piece Tool Set with TB-103 Metal Tool Box
JHWMSB-29HF	29 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools: Product Code	Description
JHWB-52EHA	8" Enclosed Head Ratchet
JHWB-108	3" Extension
JHWB-110	6" Extension

Drive Tools: Product Code	Description
JHWB-40B	8 9/16" Flex Handle
JHWB-140A	Universal Joint

Shallow 6-Point Sockets Product Code	Size (MM)	Deep 6-Point Sockets Product Code	Size (MM)
JHWBM-608	8	JHWBMD-608	8
JHWBM-609	9	JHWBMD-609	9
JHWBM-610	10	JHWBMD-610	10
JHWBM-611	11	JHWBMD-611	11
JHWBM-612	12	JHWBMD-612	12
JHWBM-613	13	JHWBMD-613	13
JHWBM-614	14	JHWBMD-614	14
JHWBM-615	15	JHWBMD-615	15
JHWBM-616	16	JHWBMD-616	16
JHWBM-617	17	JHWBMD-617	17
JHWBM-618	18	JHWBMD-618	18
JHWBM-619	19	JHWBMD-619	19

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

USA
Made in U.S.A.

JHWMSB-29FTB

29 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

6 12 M

6 & 12 Point Metric, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWMSB-29FTB	29 Piece Tool Set with TB-103 Metal Tool Box
JHWMSB-29F	29 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools: Product Code	Description
JHWB-52EHA	8" Enclosed Head Ratchet
JHWB-108	3" Extension
JHWB-110	6" Extension

Drive Tools: Product Code	Description
JHWB-40B	8 9/16" Flex Handle
JHWB-140A	Universal Joint

Shallow 12-Point Sockets Product Code	Size (MM)	Deep 6-Point Sockets Product Code	Size (MM)
JHWBM-1208	8	JHWBMD-608	8
JHWBM-1209	9	JHWBMD-609	9
JHWBM-1210	10	JHWBMD-610	10
JHWBM-1211	11	JHWBMD-611	11
JHWBM-1212	12	JHWBMD-612	12
JHWBM-1213	13	JHWBMD-613	13
JHWBM-1214	14	JHWBMD-614	14
JHWBM-1215	15	JHWBMD-615	15
JHWBM-1216	16	JHWBMD-616	16
JHWBM-1217	17	JHWBMD-617	17
JHWBM-1218	18	JHWBMD-618	18
JHWBM-1219	19	JHWBMD-619	19

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

USA
Made in U.S.A.

18 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

6 Point Metric, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWMSB18HFTB	18 Piece Tool Set with TB-102 Metal Tool Box
JHWMSB-18HF	18 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:		Drive Tools:	
Product Code	Description	Product Code	Description
JHWB-52EHA	8" Enclosed Head Ratchet	JHWB-110	6" Extension
JHWB-108	3" Extension	JHWB-140A	Universal Joint

Shallow 6-Point Sockets		Shallow 6-Point Sockets	
Product Code	Size (MM)	Product Code	Size (MM)
JHWBM-606	6	JHWBM-613	13
JHWBM-607	7	JHWBM-614	14
JHWBM-608	8	JHWBM-615	15
JHWBM-609	9	JHWBM-616	16
JHWBM-610	10	JHWBM-617	17
JHWBM-611	11	JHWBM-618	18
JHWBM-612	12	JHWBM-619	19

JHWMSB18HFTB

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

17 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

12 Point Metric, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWMSB-17FTB	17 Piece Tool Set with TB-102 Metal Tool Box
JHWMSB-17F	17 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:		Drive Tools:	
Product Code	Description	Product Code	Description
JHWB-52EHA	8" Enclosed Head Ratchet	JHWB-40B	8 9/16" Flex Handle
JHWB-108	3" Extension	JHWB-140A	Universal Joint
JHWB-110	6" Extension		

Shallow 12-Point Sockets		Shallow 12-Point Sockets	
Product Code	Size (MM)	Product Code	Size (MM)
JHWBM-1208	8	JHWBM-1214	14
JHWBM-1209	9	JHWBM-1215	15
JHWBM-1210	10	JHWBM-1216	16
JHWBM-1211	11	JHWBM-1217	17
JHWBM-1212	12	JHWBM-1218	18
JHWBM-1213	13	JHWBM-1219	19

JHWMSB-17FTB

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

⚠WARNING

JHWMSB-16FTB

16 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

12 Point Metric, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWMSB-16FTB	16 Piece Tool Set with TB-102 Metal Tool Box
JHWMSB-16F	16 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWB-52EHA	8" Enclosed Head Ratchet
JHWB-108	3" Extension

Shallow 12-Point Sockets

Product Code	Size (MM)
JHWBM-1208	8
JHWBM-1209	9
JHWBM-1210	10
JHWBM-1211	11
JHWBM-1212	12
JHWBM-1213	13
JHWBM-1214	14
JHWBM-1216	16
JHWBM-1217	17
JHWBM-1218	18
JHWBM-1220	20
JHWBM-1221	21
JHWBM-1222	22
JHWBM-1224	24

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

146 PIECE 1/4", 3/8", 1/2" DRIVE SOCKET AND DRIVE TOOL SET

6 12 M F

6 & 12 Point Rugged-Case-System Tool Set, SAE and Metric

Product Code	Description
JHW50614B	146 Piece 1/4", 3/8", 1/2" Drive Socket Set

1/4" Drive Contents Include:

1/4" Drive Tools

Ratchet
3" Extension
Handle
Universal Joint

1/4" Drive Deep 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
4	3/16
5	7/32
6	1/4
7	9/32
8	5/16
9	11/32
10	3/8
11	7/16
12	1/2
13	

1/4" Drive Shallow 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
4	5/32
5	3/16
5.5	7/32
6	1/4
7	9/32
8	5/16
9	11/32
10	3/8
11	7/16
12	1/2
13	9/16
14	

1/4" Drive Hex Bit Sockets

Metric Size (MM)	SAE Size (Inches)
3	1/8
4	5/32
5	3/16
6	7/32
7	1/4
8	5/16

1/4" Drive Screwdriver Bit Sockets

Size	Size
5/32" Slotted Tip	#0 Phillips Tip
7/32" Slotted Tip	#1 Phillips Tip
9/32" Slotted Tip	#2 Phillips Tip

1/4" Drive Torx Bit Sockets

Size	Size
T10	T25
T15	T27
T20	T30

3/8" Drive Contents Include:

3/8" Drive Tools

Ratchet
3" Extension
6" Extension
Adaptor - 3/8" F x 1/4" M

3/8" Drive Deep 12 Point Sockets

Metric Size (MM)	SAE Size (Inches)
6	1/4
7	5/16
8	3/8
9	7/16
10	1/2
11	9/16
12	5/8
13	11/16
14	3/4
15	13/16
16	7/8
17	15/16
18	1
19	

3/8" Drive Shallow 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
6	1/4
7	5/16
8	3/8
9	7/16
10	1/2
11	9/16
12	5/8
13	11/16
14	3/4
15	13/16
16	7/8
17	15/16
18	1
19	

3/8" Drive Spark Plug Socket

SAE Size (Inches)
5/8
13/16

1/2" Drive Contents Include:

1/2" Drive Tools

Ratchet
6" Extension
10" Extension
Universal Joint
Adaptor - 1/2" F x 3/8" M

1/2" Drive Shallow 12 Point Sockets

SAE Size (Inches)
3/8
7/16
1/2
9/16
5/8
11/16
3/4
13/16
7/8
15/16
1

JHW50614B

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

WARNING

JHW50612B

138 PIECE 1/4", 3/8", 1/2" DRIVE SOCKET AND DRIVE TOOL SET

6 Point Rugged-Case-System Tool Set, SAE and Metric

Product Code	Description
JHW50612B	138 Piece 1/4", 3/8", 1/2" Drive Socket Set

1/4" Drive Contents Include:

1/4" Drive Tools

Ratchet
1 1/2" Extension
3" Extension
Spinner Handle
Universal Joint
Hex Bit Holder
13 Piece Insert Bit Set

1/4" Drive Deep 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
4	5/32
5	3/16
6	7/32
7	1/4
8	9/32
9	5/16
10	11/32
11	3/8
12	7/16
13	1/2

1/4" Drive Shallow 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
4	5/32
5	3/16
5.5	7/32
6	1/4
7	9/32
8	5/16
9	11/32
10	3/8
11	7/16
12	1/2
13	

3/8" Drive Contents Include:

3/8" Drive Tools

Ratchet
3" Extension
6" Extension
Universal Joint
Adaptor
Hex Bit Holder

3/8" Drive Deep 12 Point Sockets

Metric Size (MM)	SAE Size (Inches)
10	3/8
11	7/16
12	1/2
13	9/16
14	5/8
15	11/16
16	3/4
17	13/16
18	7/8
19	

3/8" Drive Shallow 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
10	3/8
11	7/16
12	1/2
13	9/16
14	5/8
15	11/16
16	3/4
17	
18	
19	

1/2" Drive Contents Include:

1/2" Drive Tools

Ratchet
6" Extension
10" Extension
Universal Joint
Adaptor

1/2" Drive 12 Point Sockets

Metric Size (MM)	SAE Size (Inches)
10	3/8
11	7/16
12	1/2
13	9/16
14	5/8
15	11/16
16	3/4
17	13/16
18	7/8
19	15/16
21	1
22	1 1/16
24	1 1/8
27	1 3/16
30	1 1/4
32	

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

95 PIECE 1/4" & 3/8" DRIVE MASTER SOCKET AND TOOL SET

6 & 12 Point Rugged-Case-System Tool Set, SAE

Product Code	Description
JHW50611B	95 Piece Master Socket, Wrench, and Screwdriver Set

1/4" Drive Contents Include:

1/4" Drive Tools

36 Tooth Quick-Release Ratchet
1 1/2" Extension
3" Extension
Flex Handle
Spinner Handle
Universal Joint
1/4" F x 3/8" M Adapter

1/4" Drive Shallow 6-Point Sockets

SAE Size (Inches)
3/16
7/32
1/4
9/32
5/16
11/32
3/8
7/16
1/2
9/16

1/4" Drive Deep 6 Point Sockets

SAE Size (Inches)
3/16
7/32
1/4
9/32
5/16
11/32
3/8
7/16
1/2
9/16

1/4" Drive Hex Bit Sockets

Metric Size (MM)	SAE Size (Inches)
3	1/8
4	5/32
5	3/16
6	7/32
7	1/4
8	5/16

1/4" Drive Screwdriver Bit Sockets

Size	Size
5/32" Slotted Tip	#0 Phillips Tip
7/32" Slotted Tip	#1 Phillips Tip
9/32" Slotted Tip	#2 Phillips Tip

1/4" Drive Torx Bit Sockets

Size	Size
T10	T25
T15	T27
T20	T30

3/8" Drive Contents Include:

3/8" Drive Tools

38 Tooth Quick-Release Ratchet
3" Extension
6" Extension
10" Extension
10" Flex Handle
Universal Joint
Sliding T-Handle
3/8" F x 1/4" M Adapter
3/8" F x 1/2" M Adapter

3/8" Drive Shallow 6-Point Sockets

SAE Size (Inches)
3/16
7/16
1/2
9/16
5/8
11/16
3/4
13/16
7/8
15/16
1

3/8" Drive Deep 12 Point Sockets

SAE Size (Inches)
3/16
7/16
1/2
9/16
5/8
11/16
3/4
13/16
7/8
15/16
1

Other Contents Include:

Comfort Grip Screwdrivers

3/16" x 4" Slotted
1/4" x 4" Slotted
#1 x 3" Phillips®
#2 x 4" Phillips®

12 Point Combination Wrenches

SAE Size (Inches)
1/4
5/16
3/8
7/16
1/2
9/16
5/8
11/16
3/4

JHW50611B

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

⚠WARNING

JHW50622B

89 PIECE 1/4" & 3/8" DRIVE MASTER SOCKET AND TOOL SET

6 & 12 Point Rugged-Case-System Tool Set, Metric

Product Code	Description
JHW50622B	89 Piece Master Socket, Wrench and Screwdriver Set

1/4" Drive Contents Include:

1/4" Drive Tools

- 36 Tooth Quick-Release Ratchet
- 1 ½" Extension
- 3" Extension
- Flex Handle
- Spinner Handle
- Universal Joint
- ¼" F x ⅜" M Adapter

1/4" Drive Hex Bit Sockets

Metric Size (MM)	SAE Size (Inches)
3	⅛
4	5/32
5	3/16
6	7/32
7	¼
8	5/16

1/4" Drive Screwdriver Bit Sockets

Size	Size
5/32" Slotted Tip	#0 Phillips Tip
7/32" Slotted Tip	#1 Phillips Tip
9/32" Slotted Tip	#2 Phillips Tip

1/4" Drive Torx Bit Sockets

Size	Size
T10	T25
T15	T27
T20	T30

3/8" Drive Contents Include:

3/8" Drive Tools

- 38 Tooth Quick-Release Ratchet
- 3" Extension
- 6" Extension
- 10" Extension
- 10" Flex Handle
- Universal Joint
- Sliding T-Handle
- ⅜" F x ¼" M Adapter
- ⅜" F x ½" M Adapter

3/8" Drive Shallow 6-Point Sockets

Metric Size (MM)
8
9
10
11
12
13
14
15
16
17
18
19

3/8" Drive Deep 12-Point Sockets

Metric Size (MM)
8
9
10
11
12
13
14
15
16
17
18
19

Other Contents Include:

Comfort Grip Screwdrivers

- 3/16" x 4" Slotted
- ¼" x 4" Slotted
- #1 x 3" Phillips®
- #2 x 4" Phillips®

12 Point Combination Wrenches

Metric Size (MM)
6
8
10
12
13
14
15
17
19

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

79 PIECE 3/8" DRIVE DELUXE SOCKET AND DRIVE TOOL SET

6 & 12 Point Rugged-Case-System Tool Set, SAE and Metric, with 1/4" Hex Screwdriver Bits

Product Code	Description
JHW50607B	79 Piece 3/8" Drive Deluxe Tool Set

1/4" Drive Contents Include:

1/4" Drive Tools
Spinner Handle
Universal Joint
1/4" Hex Bit Holder
Universal Joint

1/4" Hex Screwdriver Bits
5/32" Slotted Tip
3/16" Slotted Tip
1/4" Slotted Tip
#0 Phillips® Tip
#1 Phillips® Tip
#2 Phillips® Tip
#3 Phillips® Tip
#1 Square Tip
#2 Square Tip
1/8" Hex Tip
5/32" Hex Tip
7/32" Hex Tip
1/4" Hex Tip

3/8" Drive Contents Include:

3/8" Drive Tools
38 Tooth Quick-Release Ratchet
3" Extension
6" Extension
10" Extension
10" Flex Handle
Universal Joint
Sliding T-Handle
3/8" F x 1/4" M Adapter
3/8" F x 1/2" M Adapter

3/8" Drive Deep 12 Point Sockets

Metric Size (MM)	SAE Size (Inches)
6	1/4
7	5/16
8	3/8
9	7/16
10	1/2
11	9/16
12	5/8
13	11/16
14	3/4
15	13/16
16	7/8
17	15/16
18	1
19	

3/8" Drive Shallow 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
6	1/4
7	5/16
8	3/8
9	7/16
10	1/2
11	9/16
12	5/8
13	11/16
14	3/4
15	13/16
16	7/8
17	15/16
18	1
19	

JHW50607B

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

WARNING

JHW50605B

63 PIECE 3/8" DRIVE SOCKET, SCREWDRIVER, AND WRENCH SET

6 12 M F

6 & 12 Point Rugged-Case-System Tool Set, SAE and Metric

Product Code	Description
JHW50605B	63 Piece 3/8" Drive Socket, Screwdriver, and Wrench Set

1/4" Drive Contents Include:

1/4" Drive Tools

- Spinner Handle
- Universal Joint
- 1/4" Hex Bit Holder

1/4" Hex Screwdriver Bits

- 5/32" Slotted Tip
- 3/16" Slotted Tip
- 1/4" Slotted Tip
- #0 Phillips® Tip
- #1 Phillips® Tip
- #2 Phillips® Tip
- #3 Phillips® Tip
- #1 Square Tip
- #2 Square Tip
- 1/8" Hex Tip
- 5/32" Hex Tip
- 7/32" Hex Tip
- 1/4" Hex Tip

3/8" Drive Contents Include:

3/8" Drive Tools

- 38 Tooth Quick-Release Ratchet
- 3" Extension
- 6" Extension
- 10" Extension
- 10" Flex Handle
- Universal Joint
- Sliding T-Handle
- 3/8" F x 1/4" M Adapter
- 3/8" F x 1/2" M Adapter

3/8" Drive Shallow 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
6	1/4
7	5/16
8	3/8
9	7/16
10	1/2
11	9/16
12	5/8
13	11/16
14	3/4
15	13/16
16	7/8
17	15/16
18	1
19	

Additional Contents Include:

Comfort Grip Screwdrivers

- 3/16" x 4" Slotted
- 1/4" x 4" Slotted
- #1 x 3" Phillips®
- #2 x 4" Phillips®

12 Point Combination Wrenches

SAE Size (Inches)
1/4
5/16
3/8
7/16
1/2
9/16
5/8

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

58 PIECE 3/8" DRIVE SOCKET, SCREWDRIVER, AND PLIERS SET

6 Point Rugged-Case-System Tool Set, SAE and Metric

Product Code	Description
JHW50615B	58 Piece 3/8" Drive Socket, Screwdriver and Pliers Set

1/4" Drive Contents Include:

1/4" Drive Tools

Spinner Handle
Universal Joint
1/4" Hex Bit Holder

1/4" Hex Screwdriver Bits

5/32" Slotted Tip
3/16" Slotted Tip
1/4" Slotted Tip
#0 Phillips® Tip
#1 Phillips® Tip
#2 Phillips® Tip
#3 Phillips® Tip
#1 Square Tip
#2 Square Tip
1/8" Hex Tip
5/32" Hex Tip
7/32" Hex Tip
1/4" Hex Tip

3/8" Drive Contents Include:

3/8" Drive Tools

38 Tooth Quick-Release Ratchet
3" Extension
6" Extension
10" Extension
10" Flex Handle
Universal Joint
Sliding T-Handle
3/8" F x 1/4" M Adapter
3/8" F x 1/2" M Adapter

3/8" Drive Shallow 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
6	1/4
7	5/16
8	3/8
9	7/16
10	1/2
11	9/16
12	5/8
13	11/16
14	3/4
15	13/16
16	7/8
17	15/16
18	1
19	

Additional Contents Include:

Pliers

8" Slip Joint Pliers
9 3/4" Groove Joint Pliers
7" Diagonal Cutting Pliers
6 1/4" Long Nose Pliers W / Cutter

Adjustable Wrench

8"

JHW50615B

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

WARNING

JHW50613B

35 PIECE 3/8" DRIVE BASIC TOOL SET

6 Point Rugged-Case-System Tool Set, Metric, with 1/4" Hex Screwdriver Bits

Product Code	Description
JHW50613B	35 Piece Basic Tool Set, Metric

1/4" Drive Contents Include:

1/4" Drive Tools
Spinner Handle
Universal Joint
1/4" Hex Bit Holder

1/4" Hex Screwdriver Bits
5/32" Slotted Tip
3/16" Slotted Tip
1/4" Slotted Tip
#0 Phillips® Tip
#1 Phillips® Tip
#2 Phillips® Tip
#3 Phillips® Tip
#1 Square Tip
#2 Square Tip
1/8" Hex Tip
5/32" Hex Tip
7/32" Hex Tip
1/4" Hex Tip

3/8" Drive Contents Include:

3/8" Drive Tools
7 3/4" Ratchet
3" Extension
6" Extension
Universal Joint
1/4" Hex Bit Holder

3/8" Drive Shallow 6-Point Sockets
Metric Size (MM)
6
7
8
9
10
11
12
13
14
15
16
17
18
19

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

34 PIECE 3/8" DRIVE BASIC TOOL SET

6 Point Rugged-Case-System Tool Set, SAE, with 1/4" Hex Screwdriver Bits

Product Code	Description
JHW50603B	34 Piece Basic Tool Set, SAE

1/4" Drive Contents Include:

1/4" Drive Tools
Spinner Handle
Universal Joint
1/4" Hex Bit Holder

1/4" Hex Screwdriver Bits
5/32" Slotted Tip
3/16" Slotted Tip
1/4" Slotted Tip
#0 Phillips® Tip
#1 Phillips® Tip
#2 Phillips® Tip
#3 Phillips® Tip
#1 Square Tip
#2 Square Tip
1/8" Hex Tip
5/32" Hex Tip
7/32" Hex Tip
1/4" Hex Tip

3/8" Drive Contents Include:

3/8" Drive Tools
7 3/4" Ratchet
3" Extension
6" Extension
Universal Joint
1/4" Hex Bit Holder

3/8" Drive Shallow 6 Point Sockets
SAE Size (Inches)
1/4
5/16
3/8
7/16
1/2
9/16
5/8
11/16
3/4
13/16
7/8
15/16
1

JHW50603B

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

22 PIECE 3/8" DRIVE BOLT THRU SOCKET SET

6 Point Compact Case Tool Set, SAE & Metric

Product Code	Description
JHW50671	22 Piece 3/8" Drive Bolt Thru Socket Set

3/8" Drive Contents Include:

3/8" Drive Tools
Locking Flexible Ratchet
3" Extension
Adaptor

3/8" Drive Shallow 6 Point Sockets	
Metric Size (MM)	SAE Size (Inches)
8	3/8
9	7/16
10	1/2
11	9/16
12	5/8
13	11/16
14	3/4
15	
16	
17	
18	
19	

JHW50671

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Ratchet with 7 locking positions and flex head design

⚠WARNING

JHW50664

18 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

6 & 12 Point Compact Case Tool Set, SAE

Product Code	Description
JHW50664	18 Piece 3/8" Drive Socket and Drive Tool Set

3/8" Drive Contents Include:

3/8" Drive Tools
7 3/4" Pear Head Ratchet
3" Extension
6" Extension

3/8" Drive Spark Plug Socket
5/8

3/8" Drive Shallow 6 Point Sockets
SAE Size (Inches)
3/8
7/16
1/2
9/16
5/8
11/16
3/4

3/8" Drive Deep 12 Point Sockets
SAE Size (Inches)
3/8
7/16
1/2
9/16
5/8
11/16
3/4

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged compact high-density polyethylene (HDPE) cases that are strong and durable yet light in weight

JHW50666

47 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

6 & 12 Point Compact Case Tool Set, SAE & Metric

Product Code	Description
JHW50666	47 Piece 3/8" Drive Socket and Drive Tool Set

3/8" Drive Contents Include:

3/8" Drive Tools
5 1/4" Pear Head Ratchet
3" Extension
1 1/2" Extension
Universal Joint

3/8" Drive Shallow 6 Point Sockets	
Metric Size (MM)	SAE Size (Inches)
6	5/16
7	3/8
8	7/16
9	1/2
10	9/16
11	5/8
12	11/16
13	3/4
14	
15	
16	
17	
18	
19	

3/8" Drive Deep 12 Point Sockets	
Metric Size (MM)	SAE Size (Inches)
7	5/16
8	3/8
9	7/16
10	1/2
11	9/16
12	5/8
13	11/16
14	3/4
15	
16	
17	
18	
19	

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged compact high-density polyethylene (HDPE) cases that are strong and durable yet light in weight

15 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

12 Point Compact Case Tool Set, SAE

Product Code	Description
JHW50673	15 Piece 3/8" Drive Socket and Drive Tool Set

Contents Include:

3/8" Drive Tools:	3/8" Drive Shallow 12 Point Sockets:		
Description	Size (Inches)	Size (Inches)	Size (Inches)
7 3/4" Pear Head Ratchet	1/4	1/2	3/4
3" Extension	5/16	9/16	13/16
6" Extension	3/8	5/8	7/8
Universal Joint	7/16	11/16	

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged compact high-density polyethylene (HDPE) cases that are strong and durable yet light in weight

JHW50673

15 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

6 Point Compact Case Tool Set, SAE

Product Code	Description
JHW50663	15 Piece 3/8" Drive Socket and Drive Tool Set

Contents Include:

3/8" Drive Tools:	3/8" Drive Shallow 6 Point Sockets:		
Description	Size (Inches)	Size (Inches)	Size (Inches)
7 3/4" Pear Head Ratchet	1/4	1/2	3/4
3" Extension	5/16	9/16	13/16
6" Extension	3/8	5/8	7/8
Universal Joint	7/16	11/16	

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged compact high-density polyethylene (HDPE) cases that are strong and durable yet light in weight

JHW50663

15 PIECE 3/8" DRIVE SOCKET AND DRIVE TOOL SET

6 Point Compact Case Tool Set, Metric

Product Code	Description
JHW50665	16 Piece 3/8" Drive Socket and Drive Tool Set

Contents Include:

3/8" Drive Tools:	3/8" Drive Shallow 6 Point Sockets:		
Description	Size (mm)	Size (mm)	Size (mm)
7 3/4" Pear Head Ratchet	8	12	16
3" Extension	9	13	17
6" Extension	10	14	18
Universal Joint	11	15	19

Features

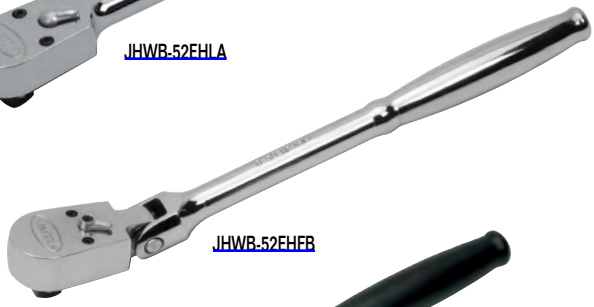
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged compact high-density polyethylene (HDPE) cases that are strong and durable yet light in weight

JHW50665

⚠WARNING

JHWB-52EHA

JHWB-52EHLA



JHWB-52EHFB

JHWBB-52EHA

3/8" DRIVE ENCLOSED HEAD RATCHETS

Williams® Sealed Narrow Head Design, Chrome and Black Industrial Finish

Product Code	Description	Length (Inches)	Number of Teeth
JHWB-52EHA	Chrome Finish Enclosed Head Ratchet	8	36
JHWB-52EHLA	Chrome Finish Enclosed Head Ratchet, Long	10 1/4	36
JHWB-52EHFB	Chrome Finish Flex Head Ratchet	9 11/16	36
JHWBB-52EHA	Black Industrial Finish Enclosed Head Ratchet	8	36
JHWB-52EHRKA	Repair Kit for Enclosed Head Ratchets		

Fed. Spec: ANSI B107.10M

Features

- Enclosed head is sealed to prevent dust, dirt, and liquids from entering head, preserving internal lubrication
- Forged one-piece ratchet provide strength and safety for industrial applications
- Smooth comfort-grip handle permits all-day use without gloves
- 36 tooth gear with 10 degree of engagement allows engagement in tight working areas
- Nickel/Chrome plating provides increase protection from rust and corrosion
- Chrome finish models feature mirror-like exterior that can be easily cleaned after each use
- Single Pawl ratchet design:
- 1) Designed for tighter tolerances between pawl and gear which reduces metal fatigue and slippage under load
- 2) Does not require as many working parts, reducing possible breakage and parts to repair
- Easy access reverse lever allows user to change working direction quickly and easily with only one hand

Made in U.S.A.

JHWB-52A

JHWB-53A

JHWBB-52A

3/8" DRIVE ROUND HEAD RATCHETS

Knurled Handle, Chrome and Black Industrial Finish

Product Code	Description	Length (Inches)	Number of Teeth
JHWB-52A	Chrome Finish Round Head Ratchet	7 5/8	72
JHWB-53A	Chrome Finish Round Head Ratchet, Long	10 1/2	72
JHWBB-52A	Black Industrial Finish Round Head Ratchet	7 5/8	72
JHWB-52ARK	Repair Kit for Round Head Ratchets		

Fed. Spec: ANSI B107.10M

Features

- Double pawl design with 72 teeth action provides a 5° ratcheting angle
- Shift lever reverses action instantly
- Knurled handle provides a non-slip grip
- Chrome finish models provides increased protection from rust and corrosion

Made in U.S.A.

3/8" DRIVE HANDLES

Knurled Handle, High-Polished Chrome Finish

Product Code	Description	Length (Inches)
JHWB-40B	Flex Handle	8 9/16
JHWB-20A	Sliding T-Handle	7 15/16
JHWB-15	Speeder Handle	18

Fed. Spec: ANSI B107.10M

Features

- Chrome plating provides increased protection from rust and corrosion
- Drive handles provide extra leverage with greater strength than ratchets
- Speeder handle is ideal for fast turn down of fasteners

Made in U.S.A.

JHWB-40B

JHWB-20A

JHWB-15

3/8" DRIVE EXTENSIONS AND ACCESSORIES

High-Polished Chrome Finish

Product Code	Description	Length (Inches)
JHWB-101	Extension	1 1/2
JHWB-108	Extension	3
JHWB-110	Extension	6
JHWB-115	Extension	11
JHWB-118	Extension	18
JHWBFF-8	Flexible Extension	8
JHWB-140A	Universal Joint	2
JHWB-70	Ratchet Spinner Disk	1 1/4

Fed. Spec: ANSI B107.10M

JHWWSB-5XT 5 Piece Extension Set in Pouch – 049605

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHWB-101	1 1/2	B-115	11
JHWB-108	3	B-118	18
JHWB-110	6		

Features

- Chrome plating provides increased protection from rust and corrosion
- Flexible extension is designed for low torque applications in limited access areas
- Ball and spring socket retention
- Spinner disk is ideal for fast turn down of fasteners

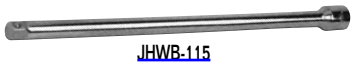
Made in U.S.A.

JHWB-101

JHWB-140A

JHWB-70

JHWB-108



JHWB-115

JHWB-110

JHWBFF-8

JHWWSB-5XT

3/8" DRIVE ADAPTORS

High-Polished Chrome and Black Industrial Finish

Product Code	Length (Inches)	Male End (Inches)	Female End (Inches)
Chrome Finish			
JHWBS-130	1 5/16	1/2	3/8
Black Industrial Finish			
JHWBS-130B	1 5/16	1/2	3/8
JHWBS-131BF	1 5/16	3/8	1/2

Fed. Spec: ANSI B107.10M

Features

- Ball and spring socket retention

Made in U.S.A.

JHWBS-130

JHWBS-130B

JHWBS-131BF

WARNING

3/8" DRIVE RATCHETS AND HANDLES

High-Polished Chrome Finish

Product Code	Description	Length (Inches)
JHW11920	Flex Handle, Comb. 3/8" x 1/2" Drive	10
JHW31016A	3/8" Drive Spinner Handle	9

Fed. Spec: ANSI B107.10M

Features

- High-polished chrome finish for easy cleaning
- Spinner handles features three component comfort grip handle
- Unique combination 3/8" x 1/2" drive flex handle offers convenience of both drive sizes on one handle

3/8" DRIVE EXTENSIONS AND ACCESSORIES

High-Polished Chrome Finish

Product Code	Description	Length (Inches)
JHW31013	Holder for 1/4" Hex Screwdriver Bits	3/4
JHW31023	Locking Extension	3
JHW31024	Locking Extension	6
JHW31025	Locking Extension	10
JHW31026	Locking Extension	12
JHW31027	Locking Extension	18
JHW31028	Locking Extension	24

Fed. Spec: ANSI B107.10M

Features

- Chrome plating provides increased protection from rust and corrosion
- Ball and spring socket retention

3/8" WOBBLE EXTENSIONS

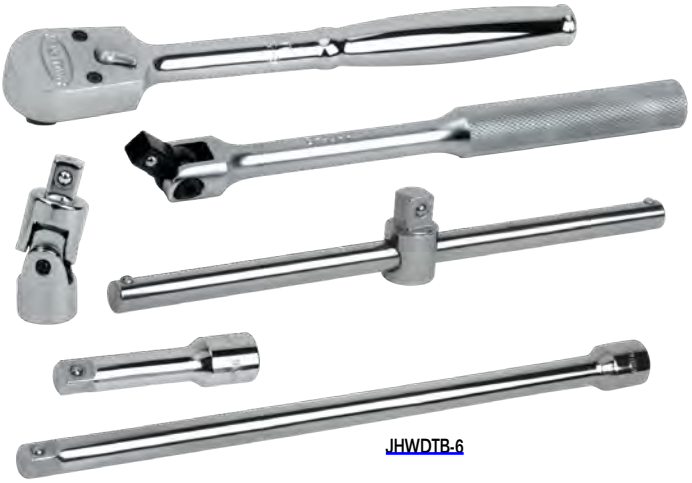
High-Polished Chrome Finish

Product Code	Length (Inches)
JHWB-201	1
JHWB-203	3
JHWB-206	6
JHWB-208	8
JHWB-211	11
JHWB-218	18

Fed. Spec: ANSI B107.10M

Features

- Chrome plating provides increased protection from rust and corrosion
- Provides 16 degrees of additional accessibility



6 PIECE 3/8" DRIVE RATCHET AND DRIVE TOOL SET

Furnished in a Pouch

Product Code	Description
JHWDTB-6	6 Piece 3/8" Drive Ratchet and Accessory Set

Contents Include:

Product Code	Description
JHWB-52EHA	Chrome Finish Enclosed Head Ratchet
JHWB-108	3" Extension
JHWB-115	10" Extension
JHWB-40B	Flex Handle
JHWB-140A	Universal Joint
JHWB-20A	Sliding T-Handle

Features

- All tools are professional quality, made of high-grade chrome vanadium steel

3/8" DRIVE SHALLOW, 12 POINT SOCKETS, SAE

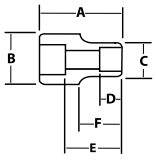
High-Polished Chrome Finish

		A	B	C	D	E		F
Product Code	Size (Inches)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)
JHWB-1208	1/4	1 1/32	11/16	13/32	7/32	9/16	7/32	17/32
JHWB-1210	5/16	1 1/32	11/16	7/16	1/4	9/16	17/64	17/32
JHWB-1211	11/32	1 1/32	11/16	1/2	9/32	9/16	21/64	17/32
JHWB-1212	3/8	1 1/32	11/16	9/16	9/32	9/16	11/32	17/32
JHWB-1214	7/16	1 1/32	11/16	5/8	5/16	9/16	11/32	17/32
JHWB-1216	1/2	1 1/32	23/32	23/32	11/32	3/8	3/8	-
JHWB-1217	17/32	1 1/32	25/32	25/32	13/32	3/4	1/2	-
JHWB-1218	9/16	1 3/32	25/32	25/32	9/16	19/32	17/32	-
JHWB-1219	19/32	1 3/32	25/32	25/32	9/16	9/16	9/16	-
JHWB-1220	5/8	1 1/8	27/32	27/32	19/32	5/8	19/32	-
JHWB-1222	11/16	1 5/32	15/16	15/16	5/8	5/8	11/16	-
JHWB-1224	3/4	1 3/16	1	1	11/16	11/16	23/32	-
JHWB-1226	13/16	1 1/4	1 1/16	1 1/16	11/16	11/16	25/32	-
JHWB-1228	7/8	1 9/32	1 5/32	1 5/32	25/32	25/32	7/8	-
JHWB-1230	15/16	1 3/8	1 1/4	1 1/4	13/16	27/32	29/32	-
JHWB-1232	1	1 13/32	1 5/16	1 5/16	27/32	7/8	1	-

Fed. Spec: ANSI B107.110

JHWB-1212

JHWB-1208



JHWWSB-10RC 10 Piece 3/8" Drive Shallow 12-Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWB-1210	5/16	JHWB-1218	9/16	JHWB-1226	13/16
JHWB-1212	3/8	JHWB-1220	5/8	JHWB-1228	7/8
JHWB-1214	7/16	JHWB-1222	11/16		
JHWB-1216	1/2	JHWB-1224	3/4		

JHWWSB-13RC 13 Piece 3/8" Drive Shallow 12-Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWB-1208	1/4	JHWB-1218	9/16	JHWB-1228	7/8
JHWB-1210	5/16	JHWB-1220	5/8	JHWB-1230	15/16
JHWB-1212	3/8	JHWB-1222	11/16	JHWB-1232	1
JHWB-1214	7/16	JHWB-1224	3/4		
JHWB-1216	1/2	JHWB-1226	13/16		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

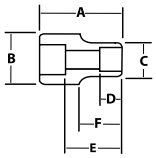
Made in U.S.A.

JHWWSB-10RC

JHWWSB-13RC

WARNING

JHWB-616 JHWB-608



3/8" DRIVE SHALLOW SOCKETS, 6 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	F Nose Length (Inches)
JHWB-608	1/4	1 1/32	11/16	13/32	7/32	9/16	1/2
JHWB-610	5/16	1 1/32	11/16	7/16	1/4	9/16	1/2
JHWB-611	11/32	1 1/32	11/16	1/2	9/32	9/16	1/2
JHWB-612	3/8	1 1/32	11/16	9/16	9/32	9/16	1/2
JHWB-614	7/16	1 1/32	11/16	5/8	5/16	9/16	1/2
JHWB-616	1/2	1 1/32	23/32	23/32	11/32	9/16	-
JHWB-618	9/16	1 3/32	25/32	25/32	9/16	19/32	-
JHWB-620	5/8	1 1/8	27/32	27/32	19/32	5/8	-
JHWB-622	11/16	1 5/32	15/16	15/16	5/8	5/8	-
JHWB-624	3/4	1 3/16	1	1	21/32	11/16	-
JHWB-626	13/16	1 1/4	1 1/16	1 1/16	11/16	23/32	-
JHWB-628	7/8	1 9/32	1 5/32	1 5/32	3/4	25/32	-
JHWB-630	15/16	1 3/8	1 1/4	1 1/4	13/16	27/32	-
JHWB-632	1	1 13/32	1 5/16	1 5/16	27/32	7/8	-

Fed. Spec: ANSI B107.110

JHWWSS-8HRC 8 Piece 3/8" Drive Shallow 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWB-608	1/4	JHWB-614	7/16	JHWB-620	5/8
JHWB-610	5/16	JHWB-616	1/2	JHWB-624	3/4
JHWB-612	3/8	JHWB-618	9/16		

JHWWSB-10HRC 10 Piece 3/8" Drive Shallow 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWB-610	5/16	JHWB-618	9/16	JHWB-626	13/16
JHWB-612	3/8	JHWB-620	5/8	JHWB-628	7/8
JHWB-614	7/16	JHWB-622	11/16		
JHWB-616	1/2	JHWB-624	3/4		

JHWWSB-13HRC 13 Piece 3/8" Drive Shallow 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWB-608	1/4	JHWB-618	9/16	JHWB-628	7/8
JHWB-610	5/16	JHWB-620	5/8	JHWB-630	15/16
JHWB-612	3/8	JHWB-622	11/16	JHWB-632	1
JHWB-614	7/16	JHWB-624	3/4		
JHWB-616	1/2	JHWB-626	13/16		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners

Made in U.S.A.

JHWWSS-8HRC

JHWWSB-10HRC

JHWWSB-13HRC

3/8" DRIVE SHALLOW SOCKETS, 4 & 8 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWBD-808	1/4	29/32	21/32	15/32	7/32	13/32	5/32	7/16
JHWB-409 **	9/32	1 1/32	11/16	9/16	5/16	17/32	3/16	1/2
JHWBD-810	5/16	29/32	21/32	9/16	1/4	13/32	1/4	7/16
JHWBD-812	3/8	15/16	11/16	41/64	9/32	7/16	5/16	15/32
JHWBD-814	7/16	1	23/32	23/32	9/32	1/2	5/16	-
JHWBD-816	1/2	1	29/32	29/32	5/16	1/2	13/32	-
JHWBD-818	9/16	1 1/8	1	1	13/32	5/8	17/32	-
JHWBD-820	5/8	1 1/8	1 1/16	1 1/16	7/16	5/8	19/32	-

** 4 Point Socket
Fed. Spec: ANSI B107.110

JHWBD-814

JHWWSBD-7RC 7 Piece 8 Point Socket Set on Clip Rail

Contents Include:

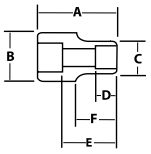
Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWBD-808	1/4	JHWBD-814	7/16	JHWBD-820	5/8
JHWBD-810	5/16	JHWBD-816	1/2		
JHWBD-812	3/8	JHWBD-818	9/16		

JHWWSBD-7RC

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- 8 point sockets are designed for quick engagement on 4 point fasteners

Made in U.S.A.



3/8" DRIVE 5 POINT PENTA-SOCKET

Black Industrial Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWBB-526	51/64	1 1/16	1 1/8	1 1/8	7/16	1/2	23/32	-

Features

- 5 point Penta-Socket services 5 point nuts found on tamper-resistant Buffalo covers used by gas, electric, and some water companies to protect shutoff gates

Made in U.S.A.

JHWBB-526

3/8" DRIVE UNIVERSAL SOCKETS, 12 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Open End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWBU-1212	3/8	1 25/32	3/4	1/2	1/4	1/2	5/16	15/64
JHWBU-1214	7/16	1 25/32	3/4	5/8	1/4	1/2	11/32	15/64
JHWBU-1216	1/2	1 25/32	3/4	11/16	5/16	9/16	11/32	9/32
JHWBU-1218	9/16	1 25/32	3/4	3/4	11/32	5/8	11/32	17/32
JHWBU-1220	5/8	1 25/32	3/4	7/8	13/32	11/16	11/32	17/32
JHWBU-1222	11/16	2	3/4	15/16	7/16	23/32	11/32	17/32
JHWBU-1224	3/4	2 1/8	3/4	1	17/32	13/16	11/32	5/8

Fed. Spec: ANSI B107.110

JHWBU-1220 JHWBU-1212

JHWWSB-7U 7 Piece 12 Point Universal Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWBU-1212	3/8	JHWBU-1218	9/16	JHWBU-1224	3/4
JHWBU-1214	7/16	JHWBU-1220	5/8		
JHWBU-1216	1/2	JHWBU-1222	11/16		

Features

- Ideal for work in confined areas where fastener is inaccessible to standard sockets

Made in U.S.A.

JHWWSB-7U

WARNING

JHW31154 JHW31142

3/8" DRIVE UNIVERSAL SOCKETS, 6 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Open End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW31142	3/8	1 53/64	3/4	9/16	3/8	35/64	21/64	5/16
JHW31144	7/16	1 53/64	3/4	5/8	3/8	35/64	21/64	5/16
JHW31146	1/2	1 57/64	3/4	45/64	13/32	37/64	21/64	13/32
JHW31148	9/16	1 57/64	3/4	25/32	7/16	43/64	21/64	33/64
JHW31150	5/8	2	3/4	55/64	7/16	45/64	21/64	33/64
JHW31152	11/16	2 3/64	3/4	15/16	31/64	3/4	21/64	17/32
JHW31154	3/4	2 3/64	3/4	1 1/64	1/2	51/64	21/64	17/32

Fed. Spec: ANSI B107.110

JHW31938

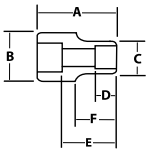
JHW31938 7 Piece 6 Point Universal Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW31142	3/8	JHW31148	9/16	JHW31154	3/4
JHW31144	7/16	JHW31150	5/8		
JHW31146	1/2	JHW31152	11/16		

Features

- Ideal for work in confined areas where fastener is inaccessible to standard sockets



3/8" DRIVE UNIVERSAL SOCKETS, 6 POINT, METRIC

High-Polished Chrome Finish

Product Code	Size (mm)	A OAL (Inches)	B Drive End Diameter (Inches)	C Open End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW31528	8	1 27/32	3/4	15/32	23/64	35/64	15/64	21/64
JHW31530	10	1 55/64	3/4	9/16	23/64	35/64	21/64	21/64
JHW31531	11	1 55/64	3/4	5/8	23/64	35/64	21/64	21/64
JHW31532	12	1 55/64	3/4	43/64	23/64	35/64	21/64	21/64
JHW31533	13	1 55/64	3/4	45/64	23/64	35/64	21/64	23/64
JHW31534	14	1 15/16	3/4	49/64	25/64	39/64	21/64	1/2
JHW31535	15	1 57/64	3/4	53/64	25/64	39/64	21/64	1/2
JHW31536	16	2	3/4	55/64	7/16	45/64	21/64	1/2
JHW31537	17	2	3/4	15/16	7/16	45/64	21/64	1/2
JHW31538	18	2 1/64	3/4	15/16	15/32	3/4	21/64	1/2
JHW31539	19	2 3/64	3/4	1	1/2	49/64	21/64	1/2

Fed. Spec: ANSI B107.110

JHW31539 JHW31528

JHW31939 11 Piece 6 Point Universal Socket Set on Clip Rail

Contents Include:

Product Code	Size (mm)	Product Code	Size (mm)	Product Code	Size (mm)
JHW31528	8	JHW31533	13	JHW31537	17
JHW31530	10	JHW31534	14	JHW31538	18
JHW31531	11	JHW31535	15	JHW31539	19
JHW31532	12	JHW31536	16		

Features

- Ideal for work in confined areas where fastener is inaccessible to standard sockets

JHW31939

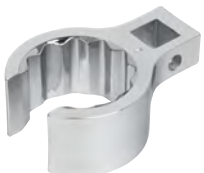
3/8" DRIVE CROWFOOT WRENCH, FLARE NUT, 12 POINT

Satin Chrome Finish, SAE

Product Code	Size (Inches)	A Diameter of Head	B Thickness of Head	C Width of Slot	D Length of Centers
JHWBCF20	5/8	15/16	11/16	15/32	47/64
JHWBCF22	11/16	1 1/32	11/16	17/32	25/32
JHWBCF24	3/4	1 1/8	23/32	9/16	53/64
JHWBCF26	13/16	1 13/64	23/32	5/8	7/8
JHWBCF28	7/8	1 19/64	3/4	11/16	15/16
JHWBCF30	15/16	1 3/8	3/4	23/32	15/16
JHWBCF32	1	1 29/64	25/32	3/4	1 1/64
JHWBCF34	1 1/16	1 17/32	25/32	25/32	1 3/64

Fed. Spec: ASME B107.21 Type 1 Class 1

JHWBCF26



JHWBCF32

JHWWSBCF-8 8 Piece 12 Point Crowfoot Wrench on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWBCF20	5/8	BCF24	3/4	JHWBCF28	7/8	JHWBCF32	1
JHWBCF22	11/16	BCF26	13/16	JHWBCF30	15/16	JHWBCF34	1 1/16
JHWBCF24	3/4						

JHWWSBCF-8

Made in U.S.A.

3/8" DRIVE CROWFOOT WRENCH, OPEN END, SAE

Satin Chrome Finish, SAE

Product Code	Size (Inches)	A Outside Diameter (Inches)	C Center to Center (Inches)	D Overall Length (Inches)	E Head Depth (Inches)	F Total Depth (Inches)
JHWBCO12	3/8"	7/8	23/32	7/32	33/64	1 19/64
JHWBCO14	7/16"	7/8	41/64	7/32	33/64	1 17/64
JHWBCO16	1/2"	1 1/32	51/64	7/32	33/64	1 29/64
JHWBCO18	9/16"	1 1/4	59/64	7/32	33/64	1 5/8
JHWBCO20	5/8"	1 1/4	55/64	7/32	33/64	1 19/32
JHWBCO22	11/16"	1 9/16	1 3/32	7/32	33/64	1 59/64
JHWBCO24	3/4"	1 9/16	1 1/32	7/32	33/64	1 57/64
JHWBCO26	13/16"	1 23/32	1 3/32	9/32	19/32	2
JHWBCO28	7/8"	1 23/32	1 1/32	9/32	19/32	1 31/32
JHWBCO30	15/16"	2	1 5/32	11/32	21/32	2 1/8
JHWBCO32	1"	2	1 5/64	11/32	21/32	2 3/32
JHWBCO40	1 1/4"	2 5/32	1 15/64	3/8	41/64	2 7/32
JHWBCO44	1 3/8"	2 3/8	1 19/64	3/8	41/64	2 3/8

JHWBCO32

JHWWSBCO-10 10 Piece 3/8" Drive Crowfoot Wrenches on Clip Rails, SAE

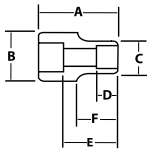
Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWBCO12	3/8"	JHWBCO18	9/16"	JHWBCO24	3/4"
JHWBCO14	7/16"	JHWBCO20	5/8"	JHWBCO26	13/16"
JHWBCO16	1/2"	JHWBCO22	11/16"	JHWBCO28	7/8"
				JHWBCO32	1"

JHWWSBCO-10

Features
- Crowfoot wrenches are professional quality, made of high grade steel
- Featuring an open end with a continuous arc for constant contact with the fastener for greater turning power without deforming the fastener

Made in U.S.A.



3/8" DRIVE CROWFOOT WRENCH, OPEN END, METRIC

Satin Chrome Finish, MM

Product Code	Size (mm)	A Outside Diameter (Inches)	B Center to Center (Inches)	C Overall Length (Inches)	D Head Depth (Inches)	E Total Depth (Inches)
JHWBCOM10	10	7/8	11/16	1/4	1/2	1 1/4
JHWBCOM11	11	7/8	5/8	1/4	1/2	1 1/4
JHWBCOM12	12	1	13/16	1/4	1/2	1 1/2
JHWBCOM13	13	1	6/8	1/4	1/2	1 1/2
JHWBCOM14	14	1	6/8	1/4	1/2	1 3/8
JHWBCOM15	15	1 1/4	7/8	1/4	1/2	1 5/8
JHWBCOM16	16	1 1/4	7/8	1/4	1/2	1 5/8
JHWBCOM17	17	1 1/4	13/16	1/4	1/2	1 5/8
JHWBCOM18	18	1 1/2	1 1/8	1/4	1/2	1 7/8
JHWBCOM19	19	1 1/2	1	1/4	1/2	1 7/8
JHWBCOM20	20	1 1/2	1	1/4	1/2	1 7/8
JHWBCOM21	21	1 3/4	1 1/8	1/4	5/8	1 7/8
JHWBCOM22	22	1 3/4	1	1/4	5/8	2

JHWBCOM19

JHWWSBCOM-10 10 Piece 3/8" Drive Crowfoot Wrenches on Clip Rails, MM

Contents Include:

Product Code	Size (mm)	Product Code	Size (mm)	Product Code	Size (mm)
JHWBCOM10	10	JHWBCOM13	13	JHWBCOM16	16
JHWBCOM11	11	JHWBCOM14	14	JHWBCOM17	17
JHWBCOM12	12	JHWBCOM15	15	JHWBCOM18	18
				JHWBCOM19	19

JHWWSBCOM-10

Features
- Crowfoot wrenches are professional quality, made of high grade steel
- Featuring an open end with a continuous arc for constant contact with the fastener for greater turning power without deforming the fastener

Made in U.S.A.

WARNING

JHW31612BT

3/8" DRIVE BOLT THRU SOCKETS, 6 POINT, SAE

Product Code	Size (Inches)	Overall Length (Inches)	External Hex Inches
JHW31612BT	3/8	1 7/16	3/4
JHW31614BT	7/16	1 7/16	3/4
JHW31616BT	1/2	1 7/16	3/4
JHW31618BT	9/16	1 7/16	3/4
JHW31620BT	5/8	1 7/16	3/4
JHW31622BT	11/16	1 7/16	3/4
JHW31624BT	3/4	1 7/16	3/4

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 point fasteners

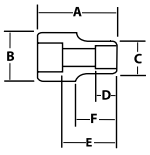
JHW31708BT

3/8" DRIVE BOLT THRU SOCKETS, 6 POINT, METRIC

Product Code	Size (mm)	Overall Length (Inches)	External Hex Inches
JHW31708BT	8	1 7/16	3/4
JHW31709BT	9	1 7/16	3/4
JHW31710BT	10	1 7/16	3/4
JHW31711BT	11	1 7/16	3/4
JHW31712BT	12	1 7/16	3/4
JHW31713BT	13	1 7/16	3/4
JHW31714BT	14	1 7/16	3/4
JHW31715BT	15	1 7/16	3/4
JHW31716BT	16	1 7/16	3/4
JHW31717BT	17	1 7/16	3/4
JHW31718BT	18	1 7/16	3/4
JHW31719BT	19	1 7/16	3/4

Features

- Designed for quick engagement on 6 point fasteners



JHW50671

22 PIECE 3/8" DRIVE BOLT THRU SOCKET SET

6 Point Compact Case Tool Set, SAE & MM

Product Code	Description
JHW50671	22 Piece 3/8" Drive Bolt Thru Socket Set

Contents Include:

3/8" Drive Tools:

Product Code	Description
JHW31018	Locking Flexible Ratchet
JHW31019	3" Extension
JHW31020	Adaptor

3/8" Drive Shallow 6 Point Sockets:

Product Code	Size (Inches)
JHW31612BT	3/8
JHW31614BT	7/16
JHW31616BT	1/2
JHW31618BT	9/16
JHW31620BT	5/8
JHW31622BT	11/16
JHW31624BT	3/4

3/8" Drive Shallow 6-Point Sockets

Product Code	Size (mm)
JHW31708BT	8
JHW31709BT	9
JHW31710BT	10
JHW31711BT	11
JHW31712BT	12
JHW31713BT	13
JHW31714BT	14
JHW31715BT	15
JHW31716BT	16
JHW31717BT	17
JHW31718BT	18
JHW31719BT	19

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged compact high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Ratchet with 7 locking positions and flex head design

3/8" DRIVE DEEP SOCKETS, 12 POINT, SAE

High-Polished Chrome Finish

		A	B	C	D	E		F
Product Code	Size (Inches)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)
JHWBD-1208	1/4	2 1/8	11/16	13/32	7/32	1 11/16	7/32	1 5/8
JHWBD-1210	5/16	2 1/8	11/16	15/32	1/4	1 11/16	5/16	1 5/8
JHWBD-1212	3/8	2 1/8	11/16	9/16	9/32	1 11/16	3/8	1 5/8
JHWBD-1214	7/16	2 1/8	11/16	5/8	9/32	1 11/16	7/16	1 5/8
JHWBD-1216	1/2	2 1/8	23/32	23/32	11/32	1 11/32	15/32	-
JHWBD-1218	9/16	2 3/8	25/32	25/32	9/16	1 9/16	17/32	-
JHWBD-1220	5/8	2 3/8	27/32	27/32	19/32	1 9/16	19/32	-
JHWBD-1222	11/16	2 5/8	15/16	15/16	5/8	1 11/16	21/32	-
JHWBD-1224	3/4	2 5/8	1	1	21/32	1 11/16	23/32	-
JHWBD-1226	13/16	2 3/4	1 1/16	1 1/16	11/16	2 1/32	25/32	-
JHWBD-1228	7/8	2 3/4	1 5/32	1 5/32	3/4	2 1/32	27/32	-
JHWBD-1230	15/16	2 3/4	1 1/4	1 1/4	13/16	2 1/32	27/32	-
JHWBD-1232	1	2 3/4	1 5/16	1 5/16	27/32	2	31/32	-

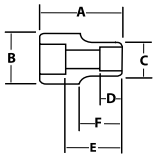
Fed. Spec: ANSI B107.110

JHWBD-1216 JHWBD-1208

JHWWSBD-9RC 9 Piece 3/8" Drive Deep 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWBD-1212	3/8	JHWBD-1218	9/16	JHWBD-1224	3/4
JHWBD-1214	7/16	JHWBD-1220	5/8	JHWBD-1226	13/16
JHWBD-1216	1/2	JHWBD-1222	11/16	JHWBD-1228	7/8



JHWWSBD-13RC 13 Piece 3/8" Drive Deep 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWBD-1208	1/4	JHWBD-1218	9/16	JHWBD-1228	7/8
JHWBD-1210	5/16	JHWBD-1220	5/8	JHWBD-1230	15/16
JHWBD-1212	3/8	JHWBD-1222	11/16	JHWBD-1232	1
JHWBD-1214	7/16	JHWBD-1224	3/4		
JHWBD-1216	1/2	JHWBD-1226	13/16		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

Made in U.S.A.

JHWWSBD-9RC

JHWWSBD-13RC

WARNING

JHWBD-616 JHWBD-608

3/8" DRIVE DEEP SOCKETS, 6 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWBD-608	1/4	2 1/8	11/16	13/32	1/4	1 11/16	7/32	1 5/8
JHWBD-610	5/16	2 1/8	11/16	7/16	9/32	1 11/16	5/16	1 5/8
JHWBD-611	11/32	2 1/8	11/16	1/2	1/4	1 11/16	11/32	1 5/8
JHWBD-612	3/8	2 1/8	11/16	9/16	5/16	1 11/16	3/8	1 5/8
JHWBD-614	7/16	2 1/8	11/16	19/32	3/8	1 11/16	7/16	1 5/8
JHWBD-616	1/2	2 1/8	23/32	23/32	7/16	1 11/16	15/32	-
JHWBD-618	9/16	2 3/8	25/32	25/32	7/16	1 9/16	17/32	-
JHWBD-620	5/8	2 3/8	27/32	27/32	1/2	1 9/16	19/32	-
JHWBD-622	11/16	2 5/8	15/16	15/16	17/32	1 3/4	21/32	-
JHWBD-624	3/4	2 5/8	1	1	5/8	1 3/4	23/32	-
JHWBD-626	13/16	2 3/4	1 1/16	1 1/16	11/16	1 27/32	25/32	-
JHWBD-628	7/8	2 3/4	1 5/32	1 5/32	23/32	1 27/32	27/32	-
JHWBD-630	15/16	2 3/4	1 1/4	1 1/4	25/32	2 1/32	27/32	-
JHWBD-632	1	2 3/4	1 5/16	1 5/16	13/16	2 1/32	31/32	-

Fed. Spec: ANSI B107.110

JHWWSBD13HRC

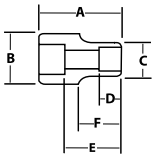
JHWWSBD13HRC 13 Piece 3/8" Drive Deep 6 Point Socket Set on Clip Rail
Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWBD-608	1/4	JHWBD-618	9/16	JHWBD-628	7/8
JHWBD-610	5/16	JHWBD-620	5/8	JHWBD-630	15/16
JHWBD-612	3/8	JHWBD-622	11/16	JHWBD-632	1
JHWBD-614	7/16	JHWBD-624	3/4		
JHWBD-616	1/2	JHWBD-626	13/16		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners

Made in U.S.A.



JHW31301

3/8" DRIVE SPARK PLUG SOCKETS, 6 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW31301	5/8	2 27/32	11/16	27/32	15/32	29/32	11/16	NA
JHW31303	13/16	2 23/32	13/16	1 1/16	15/32	1 1/32	7/8	NA

Fed. Spec: ANSI B107.110

Features

- Rubber insert holds spark plug and prevents damage to insulator

WILLIAMS

3/8" DRIVE SHALLOW SOCKETS, 12 POINT, METRIC

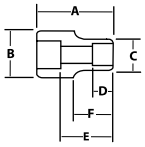
High-Polished Chrome Finish

		A	B	C	D	E		F
Product Code	Size (MM)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)
JHWBM-1206	6	1 1/32	11/16	13/32	7/32	9/16	7/32	17/32
JHWBM-1207	7	1 1/32	11/16	13/32	7/32	9/16	7/32	17/32
JHWBM-1208	8	1 1/32	11/16	15/32	1/4	9/16	9/32	17/32
JHWBM-1209	9	1 1/32	11/16	1/2	9/32	9/16	11/32	17/32
JHWBM-1210	10	1 1/32	11/16	9/16	9/32	9/16	11/32	17/32
JHWBM-1211	11	1 1/32	11/16	5/8	9/32	9/16	11/32	17/32
JHWBM-1212	12	1 1/32	11/16	21/32	11/32	9/16	11/32	17/32
JHWBM-1213	13	1 1/32	23/32	23/32	11/32	9/16	3/8	-
JHWBM-1214	14	1 1/32	25/32	25/32	7/16	17/32	17/32	-
JHWBM-1215	15	1 3/32	13/16	13/16	19/32	19/32	9/16	-
JHWBM-1216	16	1 1/8	27/32	27/32	19/32	5/8	19/32	-
JHWBM-1217	17	1 5/32	29/32	29/32	5/8	5/8	5/8	-
JHWBM-1218	18	1 5/32	31/32	31/32	5/8	21/32	11/16	-
JHWBM-1219	19	1 3/16	1	1	21/32	11/16	23/32	-
JHWBM-1220	20	1 7/32	1 1/32	1 1/32	11/16	23/32	3/4	-
JHWBM-1221	21	1 1/4	1 1/8	1 1/8	23/32	23/32	3/16	-
JHWBM-1222	22	1 9/32	1 5/32	1 5/32	3/4	3/4	3/16	-
JHWBM-1223	23	1 5/16	1 3/16	1 3/16	3/4	25/32	7/8	-
JHWBM-1224	24	1 3/8	1 1/4	1 1/4	13/16	27/32	7/8	-
JHWBM-1226	26	1 7/16	1 11/32	1 11/32	27/32	7/8	15/16	-

Fed. Spec: ANSI B107.110

JHWBM-1212

JHWBM-1206



JHWMSB-12RC 12 Piece 3/8" Drive Shallow 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWBM-1208	8	JHWBM-1212	12	JHWBM-1216	16
JHWBM-1209	9	JHWBM-1213	13	JHWBM-1217	17
JHWBM-1210	10	JHWBM-1214	14	JHWBM-1218	18
JHWBM-1211	11	JHWBM-1215	15	JHWBM-1219	19

JHWMSB-12RC

JHWMSB-17RC 17 Piece 3/8" Drive Shallow 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWBM-1206	6	JHWBM-1211	11	JHWBM-1216	16	JHWBM-1221	21
JHWBM-1207	7	JHWBM-1212	12	JHWBM-1217	17	JHWBM-1222	22
JHWBM-1208	8	JHWBM-1213	13	JHWBM-1218	18		
JHWBM-1209	9	JHWBM-1214	14	JHWBM-1219	19		
JHWBM-1210	10	JHWBM-1215	15	JHWBM-1220	20		

JHWMSB-17RC

JHWMSB-20RC 20 Piece 3/8" Drive Shallow 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWBM-1206	6	JHWBM-1211	11	JHWBM-1216	16	JHWBM-1221	21
JHWBM-1207	7	JHWBM-1212	12	JHWBM-1217	17	JHWBM-1222	22
JHWBM-1208	8	JHWBM-1213	13	JHWBM-1218	18	JHWBM-1223	23
JHWBM-1209	9	JHWBM-1214	14	JHWBM-1219	19	JHWBM-1224	24
JHWBM-1210	10	JHWBM-1215	15	JHWBM-1220	20	JHWBM-1226	26

Features

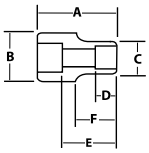
- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

Made in U.S.A.

JHWMSB-20RC

WARNING

JHWBM-612 JHWBM-606



3/8" DRIVE SHALLOW SOCKETS, 6 POINT, METRIC

High-Polished Chrome Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWBM-605.5	5 ½	1 1/32	11/16	13/32	7/32	9/16	3/16	17/32
JHWBM-606	6	1 1/32	11/16	13/32	7/32	9/16	7/32	17/32
JHWBM-607	7	1 1/32	11/16	13/32	7/32	9/16	7/32	17/32
JHWBM-608	8	1 1/32	11/16	15/32	1/4	9/16	9/32	17/32
JHWBM-609	9	1 1/32	11/16	1/2	9/32	9/16	11/32	17/32
JHWBM-610	10	1 1/32	11/16	9/16	9/32	9/16	11/32	17/32
JHWBM-611	11	1 1/32	11/16	5/8	9/32	9/16	11/32	17/32
JHWBM-612	12	1 1/32	11/16	21/32	11/32	9/16	11/32	17/32
JHWBM-613	13	1 1/32	23/32	23/32	11/32	9/16	3/8	-
JHWBM-614	14	1 1/32	25/32	25/32	7/16	17/32	17/32	-
JHWBM-615	15	1 3/32	13/16	13/16	19/32	19/32	9/16	-
JHWBM-616	16	1 1/8	27/32	27/32	19/32	5/8	19/32	-
JHWBM-617	17	1 5/32	29/32	29/32	5/8	5/8	5/8	-
JHWBM-618	18	1 5/32	31/32	31/32	5/8	21/32	11/16	-
JHWBM-619	19	1 3/16	1	1	21/32	11/16	23/32	-
JHWBM-620	20	1 7/32	1 1/32	1 1/32	11/16	23/32	3/4	-
JHWBM-621	21	1 1/4	1 1/8	1 1/8	23/32	23/32	3/16	-
JHWBM-622	22	1 9/32	1 5/32	1 5/32	3/4	3/4	3/16	-
JHWBM-623	23	1 5/16	1 3/16	1 3/16	3/4	25/32	7/8	-
JHWBM-624	24	1 3/8	1 1/4	1 1/4	13/16	27/32	7/8	-
JHWBM-626	26	1 7/16	1 11/32	1 11/32	27/32	7/8	15/16	-

Fed. Spec: ANSI B107.110

JHWMSB-12HRC

12 Piece 3/8" Drive Shallow 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWBM-608	8	JHWBM-612	12	JHWBM-616	16
JHWBM-609	9	JHWBM-613	13	JHWBM-617	17
JHWBM-610	10	JHWBM-614	14	JHWBM-618	18
JHWBM-611	11	JHWBM-615	15	JHWBM-619	19

JHWMSB-20HRC

20 Piece 3/8" Drive Shallow 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWBM-605.5	5 ½	JHWBM-610	10	JHWBM-615	15	JHWBM-620	20
JHWBM-606	6	JHWBM-611	11	JHWBM-616	16	JHWBM-621	21
JHWBM-607	7	JHWBM-612	12	JHWBM-617	17	JHWBM-622	22
JHWBM-608	8	JHWBM-613	13	JHWBM-618	18	JHWBM-623	23
JHWBM-609	9	JHWBM-614	14	JHWBM-619	19	JHWBM-624	24

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners

Made in U.S.A.

JHWMSB-12HRC

JHWMSB-20RC

3/8" DRIVE DEEP SOCKETS, 6 POINT, METRIC

High-Polished Chrome Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWBMD-606	6	2 1/8	11/16	13/32	7/32	1 11/16	7/32	1 5/8
JHWBMD-607	7	2 1/8	11/16	13/32	9/32	1 11/16	1/4	1 5/8
JHWBMD-608	8	2 1/8	11/16	15/32	9/32	1 11/16	5/16	1 5/8
JHWBMD-609	9	2 1/8	11/16	1/2	9/32	1 11/16	11/32	1 5/8
JHWBMD-610	10	2 1/8	11/16	9/16	5/16	1 11/16	3/8	1 5/8
JHWBMD-611	11	2 1/8	11/16	5/8	3/8	1 11/16	7/16	1 5/8
JHWBMD-612	12	2 1/8	11/16	21/32	13/32	1 11/16	15/32	1 5/8
JHWBMD-613	13	2 1/8	23/32	23/32	13/32	1 5/8	17/32	-
JHWBMD-614	14	2 3/8	25/32	25/32	13/32	1 9/16	17/32	-
JHWBMD-615	15	2 3/8	13/16	13/16	13/32	1 9/16	17/32	-
JHWBMD-616	16	2 3/8	27/32	27/32	13/32	1 9/16	19/32	-
JHWBMD-617	17	2 21/32	29/32	29/32	1/2	1 13/16	5/8	-
JHWBMD-618	18	2 21/32	31/32	31/32	1/2	1 13/16	21/32	-
JHWBMD-619	19	2 21/32	1	1	5/8	1 15/16	23/32	-
JHWBMD-620	20	2 21/32	1 1/32	1 1/32	5/8	1 15/16	25/32	-
JHWBMD-622	22	2 7/8	1 5/32	1 5/32	5/8	2 5/32	7/8	-
JHWBMD-623	23	2 7/8	1 3/16	1 3/16	1/2	2 5/32	27/32	-
JHWBMD-624	24	2 7/8	1 1/4	1 1/4	9/16	2 5/32	15/16	-
JHWBMD-625	25	2 7/8	1 9/32	1 9/32	9/16	2 1/8	31/32	-

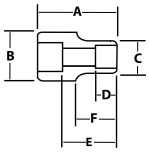
Fed. Spec: ANSI B107.110

JHWBMD-612 JHWBMD-606

JHWMSBD12HRC 12 Piece 3/8" Drive Deep 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWBMD-608	8	JHWBMD-612	12	JHWBMD-616	16
JHWBMD-609	9	JHWBMD-613	13	JHWBMD-617	17
JHWBMD-610	10	JHWBMD-614	14	JHWBMD-618	18
JHWBMD-611	11	JHWBMD-615	15	JHWBMD-619	19



JHWMSBD19HRC 19 Piece 3/8" Drive Deep 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWBMD-606	6	JHWBMD-611	11	JHWBMD-616	16	JHWBMD-622	22
JHWBMD-607	7	JHWBMD-612	12	JHWBMD-617	17	JHWBMD-623	23
JHWBMD-608	8	JHWBMD-613	13	JHWBMD-618	18	JHWBMD-624	24
JHWBMD-609	9	JHWBMD-614	14	JHWBMD-619	19	JHWBMD-625	25
JHWBMD-610	10	JHWBMD-615	15	JHWBMD-620	20		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners

Made in U.S.A.

JHWMSBD12HRC

JHWMSBD19HRC

WARNING

JHW31812

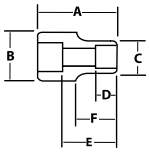
JHW31806

3/8" DRIVE DEEP SOCKETS, 12 POINT, METRIC

High-Polished Chrome Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW31806	6	2 1/2	11/16	3/8	5/8	1 9/16	7/32	1 7/32
JHW31807	7	2 1/2	11/16	7/16	5/8	1 9/16	1/4	1 7/32
JHW31808	8	2 1/2	11/16	7/16	5/8	1 9/16	9/32	1 7/32
JHW31809	9	2 1/2	11/16	17/32	5/8	1 9/16	5/16	1 7/32
JHW31810	10	2 1/2	11/16	9/16	1	1 11/16	3/8	1 7/32
JHW31811	11	2 1/2	11/16	5/8	1	1 25/32	13/32	1 7/32
JHW31812	12	2 1/2	11/16	11/16	1	1 25/32	7/16	-
JHW31813	13	2 1/2	23/32	23/32	1	1 31/32	1/2	-
JHW31814	14	2 1/2	3/4	3/4	1	2	17/32	-
JHW31815	15	2 1/2	13/16	13/16	1	1 15/16	9/16	-
JHW31816	16	2 1/2	7/8	7/8	1	1 29/32	19/32	-
JHW31817	17	2 1/2	15/16	15/16	1	2	21/32	-
JHW31818	18	2 1/2	31/32	31/32	1 1/16	1 29/32	11/16	-
JHW31819	19	2 1/2	1	1	1 3/32	1 31/32	23/32	-

Fed. Spec: ANSI B107.110



JHW31934 8 Piece 3/8" Drive Deep 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW31810	10	JHW31813	13	JHW31816	16
JHW31811	11	JHW31814	14	JHW31817	17
JHW31812	12	JHW31815	15		

JHW31936 14 Piece 3/8" Drive Deep 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW31806	6	JHW31811	11	JHW31816	16
JHW31807	7	JHW31812	12	JHW31817	17
JHW31808	8	JHW31813	13	JHW31818	18
JHW31809	9	JHW31814	14	JHW31819	19
JHW31810	10	JHW31815	15		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

JHW31934

JHW31936

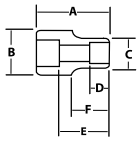
3/8" DRIVE TURBOSOCKET® SALVAGE/DAMAGED FASTENER SOCKETS

Black Industrial Finish, Metric and SAE

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWTS38375	3/8	1 1/4	11/16	19/32	13/32	3/4	3/8	11/16
JHWTS38437	7/16	1 1/4	11/16	21/32	1/2	3/4	7/16	11/16
JHWTS38500	1/2	1 1/4	3/4	3/4	1/2	3/4	1/2	-
JHWTS38562	9/16	1 1/4	13/16	13/16	1/2	23/32	9/16	-
JHWTS38625	5/8	1 1/4	29/32	29/32	1/2	19/32	5/8	-
JHWTS38687	11/16	1 13/32	31/32	31/32	21/32	29/32	23/32	-
JHWTS38750	3/4	1 13/32	1 1/16	1 1/16	21/32	29/32	3/4	-

Product Code	Size (MM)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)
JHWTS38394	10	1 1/4	11/16	5/8	13/32	3/4	13/32	11/16
JHWTS38472	12	1 1/4	23/32	23/32	1/2	3/4	15/32	-
JHWTS38512	13	1 1/4	3/4	3/4	1/2	3/4	17/32	-
JHWTS38551	14	1 1/4	13/16	13/16	1/2	23/32	9/16	-
JHWTS38591	15	1 1/4	27/32	27/32	1/2	19/32	19/32	-
JHWTS38669	17	1 13/32	31/32	31/32	21/32	29/32	23/32	-

JHWTS38687



JHWTSFS3807 7 Piece TURBOSOCKET® Salvage Socket Set on Clip Rail, SAE

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWTS38375	3/8	JHWTS38562	9/16	JHWTS38750	3/4
JHWTS38437	7/16	JHWTS38625	5/8		
JHWTS38500	1/2	JHWTS38687	11/16		

JHWTSCS3813 13 Piece TURBOSOCKET® Salvage Socket Set on Clip Rail, SAE and Metric

Contents Include:

Product Code	Size (Inches)	Product Code	Size (MM)
JHWTS38375	3/8	JHWTS38394	10
JHWTS38437	7/16	JHWTS38472	12
JHWTS38500	1/2	JHWTS38512	13
JHWTS38562	9/16	JHWTS38551	14
JHWTS38625	5/8	JHWTS38591	15
JHWTS38687	11/16	JHWTS38669	17
JHWTS38750	3/4		

JHWTS38669

JHWTSMS3809 9 Piece TURBOSOCKET® Salvage Socket Set on Clip Rail, Metric

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWTS38394	10	JHWTS38512	13	JHWTS38625	16 (5/8")
JHWTS38437	11 (7/16")	JHWTS38551	14	JHWTS38669	17
JHWTS38472	12	JHWTS38591	15	JHWTS38750	19 (3/4")

Features

- Quickly and easily remove damaged or rounded nuts and bolts
- Place socket on fastener and turn with ratchet, breaker bar or T-handle
- Grip on fastener tightens as more torque is applied
- No hammering is required to install socket over fastener
- Use on all types of standard nuts and bolts as well as studs, pipe nipples, and corroded auto and marine fasteners
- May be used for "best fit" on metric and fractional fasteners
- May be used with air or electric impact wrench for extra speed and turning power

Made in U.S.A.

JHWTSFS3807

JHWTSCS3813

JHWTSMS3809

WARNING

JHW35170

JHW31904

3/8" DRIVE STANDARD LENGTH HEX BIT SOCKETS, METRIC

High-Polished Chrome Finish

Product Code	Size (MM)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Bit Length (Inches)
JHW35170	4	1 3/16	3/4	1 27/32	21/32
JHW35171	5	1 3/16	3/4	1 27/32	21/32
JHW35172	6	1 3/16	3/4	1 27/32	21/32
JHW35173	7	1 3/16	3/4	1 27/32	21/32
JHW35174	8	1 3/16	3/4	1 31/32	13/16
JHW35175	9	1 3/16	3/4	1 31/32	13/16
JHW35176	10	1 3/16	3/4	1 31/32	13/16

JHW31904 7 Piece Hex Bit Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW35170	4	JHW35173	7	JHW35176	10
JHW35171	5	JHW35174	8		
JHW35172	6	JHW35175	9		

Features

- High-polished chrome finish socket cleans easily

JHWBA-7HBA

JHWWSBB-7RC

3/8" DRIVE BALL TIP HEX BIT SOCKETS, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	Socket Length (Inches)	Socket OutsideDiameter (Inches)	Overall Length (Inches)	Replacement Bit Product Code
JHWBA-3HBA	3/32	1 1/16	11/16	1 27/32	JHWBITHB03T01
JHWBA-4HBA	1/8	1 1/16	11/16	1 7/8	JHWBITHB0402
JHWBA-5HBA	5/32	1 1/16	11/16	1 7/8	JHWBITHB0502
JHWBA-6HBA	3/16	1 1/16	11/16	1 7/8	JHWBITHB0602
JHWBA-7HBA	7/32	1 1/16	11/16	1 7/8	JHWBITHB0702
JHWBA-8HBA	1/4	1 1/16	11/16	1 7/8	JHWBITHB0802
JHWBA-10HBA	5/16	1 1/16	11/16	1 7/8	JHWBITHB1001
JHWBA-12HBA	3/8	1 1/16	23/32	1 7/8	JHWBITHB1201

JHWWSBB-7RC 7 Piece Ball Tip Hex Bit Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWBA-4HBA	1/8	JHWBA-7HBA	7/32	JHWBA-12HBA	3/8
JHWBA-5HBA	5/32	JHWBA-8HBA	1/4		
JHWBA-6HBA	3/16	JHWBA-10HBA	5/16		

Features

- High-polished chrome finish socket cleans easily
- Two piece design allows bits to be replaced easily

Made in U.S.A.

JHWBA-7A

JHWWSB-7A

JHWWSBS-10RC

3/8" DRIVE STANDARD LENGTH HEX BIT SOCKETS, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Replacement Bit Product Code
JHWBA-3A	3/32	1 1/16	11/16	1 27/32	JHWBITH03T01
JHWBA-4A	1/8	1 1/16	11/16	1 7/8	JHWBITH0403
JHWBA-5A	5/32	1 1/16	11/16	1 7/8	JHWBITH0503
JHWBA-6A	3/16	1 1/16	11/16	1 7/8	JHWBITH0603
JHWBA-7A	7/32	1 1/16	11/16	1 7/8	JHWBITH0703
JHWBA-8A	1/4	1 1/16	11/16	1 7/8	JHWBITH0803
JHWBA-10A	5/16	1 1/16	11/16	1 7/8	JHWBITH1003
JHWBA-12A	3/8	1 1/16	23/32	1 7/8	JHWBITH1201

JHWWSB-7A 7 Piece Hex Bit Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHWBA-4A	1/8	JHWBA-8A	1/4
JHWBA-5A	5/32	JHWBA-10A	5/16
JHWBA-6A	3/16	JHWBA-12A	3/8
JHWBA-7A	7/32		

JHWWSBS-10RC 10 Piece Hex Bit Socket Set on Clip Rail, 3/8" & 1/2" Drive

Contents Include:

3/8" Drive Product Code	Size (Inches)	3/8" Drive Product Code	Size (Inches)	1/2" Drive Product Code	Size (Inches)
JHWBA-4A	1/8	JHWBA-8A	1/4	JHWSA-16A	1/2
JHWBA-5A	5/32	JHWBA-10A	5/16	JHWSA-18A	9/16
JHWBA-6A	3/16	JHWBA-12A	3/8	JHWSA-20A	5/8
JHWBA-7A	7/32				

Features

- High-polished chrome finish socket cleans easily
- Two piece design allows bits to be replaced easily

Made in U.S.A.

3/8" DRIVE LONG HEX BIT SOCKETS, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Replacement Bit Product Code
JHWBA-3LA	3/32	1 1/16	11/16	3 3/4	JHWBITH03T02
JHWBA-4LA	1/8	1 1/16	11/16	3 3/4	JHWBITH0404
JHWBA-5LA	5/32	1 1/16	11/16	3 3/4	JHWBITH0504
JHWBA-6LA	3/16	1 1/16	11/16	3 3/4	JHWBITH0604
JHWBA-7LA	7/32	1 1/16	11/16	3 3/4	JHWBITH0704
JHWBA-8LA	1/4	1 1/16	11/16	3 3/4	JHWBITH0804
JHWBA-10LA	5/16	1 1/16	11/16	3 3/4	JHWBITH1004
JHWBA-12LA	3/8	1 1/16	23/32	3 3/4	JHWBITH1202

JHWBA-7LA

JHWWSBS-7LRC 7 Piece Long Hex Bit Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWBA-4LA	1/8	JHWBA-7LA	7/32	JHWBA-12LA	3/8
JHWBA-5LA	5/32	JHWBA-8LA	1/4		
JHWBA-6LA	3/16	JHWBA-10LA	5/16		

JHWWSBS-7LRC

Features

- High-polished chrome finish socket cleans easily
- Two piece design allows bits to be replaced easily

Made in U.S.A.

3/8" DRIVE SCREWDRIVER BIT SOCKETS

High-Polished Chrome Finish, Phillips® and Slotted

Product Code	Size (Inches)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Replacement Bit Product Code
Slotted Bits:					
JHWBA-5A-1S	3/16 x .032	1 1/16	11/16	1 13/16	JHWBITHS01
JHWBA-7A-2S	7/32 x .039	1 1/16	11/16	1 13/16	JHWBITHS02
JHWBA-10A-3S	9/32 x .047	1 1/16	11/16	1 7/8	JHWBITHS04
JHWBA-10A-4S	5/16 x .061	1 1/16	11/16	1 7/8	JHWBITHS05
Phillips® Bits:					
JHWBA-7A-1P	1	1 1/16	11/16	1 7/8	JHWBITPH0102
JHWBA-7A-2P	2	1 1/16	11/16	1 7/8	JHWBITPH0202
JHWBA-10A-3P	3	1 1/16	11/16	1 7/8	JHWBITPH0302
JHWBA-12A-4P	4	1 1/16	23/32	1 7/8	JHWBITPH0401

JHWBA-7A-2S

JHWBA-7A-2P

JHWWSBSP-8RC 8 Piece Screwdriver Bit Socket Set on Clip Rail

Contents Include:

Product Code	Tip Size	Product Code	Tip Size	Product Code	Tip Size	Product Code	Tip Size
JHWBA-5A-1S	3/16 x .032	JHWBA-10A-3S	9/32 x .047	JHWBA-7A-1P	1	JHWBA-10A-3P	3
JHWBA-7A-2S	7/32 x .039	JHWBA-10A-4S	5/16 x .061	JHWBA-7A-2P	2	JHWBA-12A-4P	4

JHWWSBSP-8RC

Features

- High-polished chrome finish socket cleans easily
- Two piece design allows bits to be replaced easily

Made in U.S.A.

3/8" DRIVE LONG LENGTH HEX BIT SOCKETS, METRIC

High-Polished Chrome Finish

Product Code	Size (MM)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)
JHW35164	4	1 3/16	3/4	6
JHW35165	5	1 3/16	3/4	6
JHW35166	6	1 3/16	3/4	6
JHW35167	7	1 3/16	3/4	6
JHW35168	8	1 3/16	3/4	6
JHW35169	9	1 3/16	3/4	6
JHW35163	10	1 3/16	3/4	6

JHW35164

JHW31951 7 Piece Hex Bit Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW35164	4	JHW35167	7	JHW35163	10
JHW35165	5	JHW35168	8		
JHW35166	6	JHW35169	9		

JHW31951

Features

- High-polished chrome finish socket cleans easily

WARNING

JHW35130

3/8" DRIVE LONG BALL TIP HEX BIT SOCKETS, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)
JHW35130	1/8	1 3/16	3/4	5
JHW35131	9/64	1 3/16	3/4	5
JHW35132	5/32	1 3/16	3/4	5
JHW35133	3/16	1 3/16	3/4	5
JHW35134	7/32	1 3/16	3/4	5
JHW35135	1/4	1 3/16	3/4	5
JHW35136	5/16	1 3/16	3/4	5
JHW35137	3/8	1 3/16	3/4	5

JHW31947

JHW31947 8 Piece Ball Tip Hex Bit Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW35130	1/8	JHW35133	3/16	JHW35136	5/16
JHW35131	9/64	JHW35134	7/32	JHW35137	3/8
JHW35132	5/32	JHW35135	1/4		

Features

- High-polished chrome finish socket cleans easily

JHW35182

3/8" DRIVE TORX® BIT SOCKETS

High-Polished Chrome Finish

Product Code	Torx® Size	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Bit Length (Inches)
JHW35182	T25	1 3/16	3/4	1 27/32	11/16
JHW35183	T27	1 3/16	3/4	1 27/32	11/16
JHW35184	T30	1 3/16	3/4	1 27/32	11/16
JHW35185	T40	1 3/16	3/4	1 31/32	13/16
JHW35186	T45	1 3/16	3/4	1 31/32	13/16
JHW35187	T47	1 3/16	3/4	2	13/16
JHW35188	T50	1 3/16	3/4	2	13/16

JHW31910

JHW31910 7 Piece Torx® Bit Socket Set on Clip Rail

Contents Include:

Product Code	Torx® Size	Product Code	Torx® Size	Product Code	Torx® Size
JHW35182	T25	JHW35185	T40	JHW35188	T50
JHW35183	T27	JHW35186	T45		
JHW35184	T30	JHW35187	T47		

Features

- High-polished chrome finish socket cleans easily

JHW35192

3/8" DRIVE TAMPER-RESISTANT TORX® BIT SOCKETS

High-Polished Chrome Finish

Product Code	Torx® Size	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Bit Length (Inches)
JHW35192	T25	1 3/16	3/4	1 27/32	21/32
JHW35193	T27	1 3/16	3/4	1 27/32	21/32
JHW35194	T30	1 3/16	3/4	1 27/32	21/32
JHW35195	T40	1 3/16	3/4	1 31/32	13/16
JHW35196	T45	1 3/16	3/4	1 31/32	13/16
JHW35197	T47	1 3/16	3/4	1 31/32	13/16
JHW35198	T50	1 3/16	3/4	1 31/32	13/16

JHW31912

JHW31912 7 Piece Tamper-Resistant Torx® Bit Socket Set on Clip Rail

Contents Include:

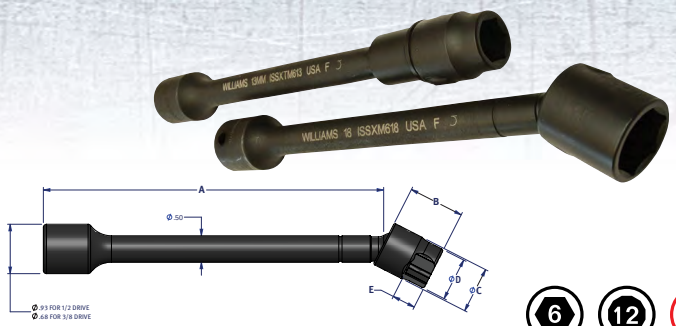
Product Code	Torx® Size	Product Code	Torx® Size	Product Code	Torx® Size
JHW35192	T25	JHW35195	T40	JHW35198	T50
JHW35193	T27	JHW35196	T45		
JHW35194	T30	JHW35197	T47		

Features

- High-polished chrome finish socket cleans easily

3/8" DRIVE SOCKET FLEXTENSIONS

Williams Flextension are used extensively in engine and heavy equipment manufacturing, assembly and repair. They increase productivity by featuring an integrated (non-removable) design of the drive extension and socket to allow for reliable, continuous work without concern for the socket disconnecting from the extension as could happen with hand-tool type ball retained sockets.



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3/8" DRIVE SOCKET FLEXTENSIONS, SAE

Black Industrial Finish

		A				B	C	D	E
Product Code	Drive	Shank Length	Tension	Socket Points	Socket (SAE)	Socket Length	Socket Diameter	Nose Diameter	Hex Depth
JHWISFXT412	3/8"	4.57"/116.1MM	Yes	6	3/8"	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISFX412	3/8"	4.57"/116.1MM	No	6	3/8"	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISFXTD612	3/8"	6.57"/166.9MM	Yes	12	3/8"	0.81"/20.6MM	0.75"/19.1MM	0.60"/15.2MM	0.41"/10.4MM
JHWISFXT612	3/8"	6.57"/166.9MM	Yes	6	3/8"	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISFX612	3/8"	6.57"/166.9MM	No	6	3/8"	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISFXT1212	3/8"	12.57"/319.3MM	Yes	6	3/8"	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISFXT414	3/8"	4.57"/116.1MM	Yes	6	7/16"	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.3"/7.6MM
JHWISFX414	3/8"	4.57"/116.1MM	No	6	7/16"	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.3"/7.6MM
JHWISFXT614	3/8"	6.57"/166.9MM	Yes	6	7/16"	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.3"/7.6MM
JHWISFX614	3/8"	6.57"/166.9MM	No	6	7/16"	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.3"/7.6MM
JHWISFXT416	3/8"	4.57"/116.1MM	Yes	6	1/2"	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISFX416	3/8"	4.57"/116.1MM	No	6	1/2"	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISFXT616	3/8"	6.57"/166.9MM	Yes	6	1/2"	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSX616	3/8"	6.57"/166.9MM	No	6	1/2"	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISFXT1216	3/8"	12.57"/319.3MM	Yes	6	1/2"	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISFXT418	3/8"	4.57"/116.1MM	Yes	6	9/16"	1.06"/26.9MM	0.90"/22.7MM	0.82"/20.8MM	0.44"/11.2MM
JHWISFX418	3/8"	4.57"/116.1MM	No	6	9/16"	1.06"/26.9MM	0.90"/22.7MM	0.82"/20.8MM	0.44"/11.2MM
JHWISFXT618	3/8"	6.57"/166.9MM	Yes	6	9/16"	1.06"/26.9MM	0.90"/22.7MM	0.82"/20.8MM	0.44"/11.2MM
JHWISFX618	3/8"	6.57"/166.9MM	No	6	9/16"	1.06"/26.9MM	0.90"/22.7MM	0.82"/20.8MM	0.44"/11.2MM
JHWISFXT420	3/8"	4.57"/116.1MM	Yes	6	5/8"	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.44"/11.2MM
JHWISFX420	3/8"	4.57"/116.1MM	No	6	5/8"	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.44"/11.2MM
JHWISFXT620	3/8"	6.57"/166.9MM	Yes	6	5/8"	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.44"/11.2MM
JHWISFX620	3/8"	6.57"/166.9MM	No	6	5/8"	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.44"/11.2MM

Made in U.S.A.

3/8" DRIVE SOCKET FLEXTENSIONS, METRIC

6 M

Black Industrial Finish

		A				B	C	D	E
Product Code	Drive	Shank Length	Tension	Socket Points	Socket (mm)	Socket Length	Socket Diameter	Nose Diameter	Socket Hex Depth
JHWISFXTM410	3/8"	4.57"/116.1MM	Yes	6	10	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISFXM410	3/8"	4.57"/116.1MM	No	6	10	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISFXTM610	3/8"	6.57"/166.9MM	Yes	6	10	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISFXM610	3/8"	6.57"/166.9MM	No	6	10	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISFXTM412	3/8"	4.57"/116.1MM	Yes	6	12	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISFXM412	3/8"	4.57"/116.1MM	No	6	12	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISFXTM612	3/8"	6.57"/166.9MM	Yes	6	12	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISFXM612	3/8"	6.57"/166.9MM	No	6	12	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISFXTM413	3/8"	4.57"/116.1MM	Yes	6	13	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISFXM413	3/8"	4.57"/116.1MM	No	6	13	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISFXTM613	3/8"	6.57"/166.9MM	Yes	6	13	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISFXM613	3/8"	6.57"/166.9MM	No	6	13	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISFXTM415	3/8"	4.57"/116.1MM	Yes	6	15	1.06"/26.9MM	0.90"/22.7MM	0.88"/22.4MM	0.42"/10.7MM
JHWISFXM415	3/8"	4.57"/116.1MM	No	6	15	1.06"/26.9MM	0.90"/22.7MM	0.88"/22.4MM	0.42"/10.7MM
JHWISFXTM615	3/8"	6.57"/166.9MM	Yes	6	15	1.06"/26.9MM	0.90"/22.7MM	0.88"/22.4MM	0.42"/10.7MM
JHWISFXM615	3/8"	6.57"/166.9MM	No	6	15	1.06"/26.9MM	0.90"/22.7MM	0.88"/22.4MM	0.42"/10.7MM
JHWISFXTM416	3/8"	4.57"/116.1MM	Yes	6	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.45"/11.4MM
JHWISFXM416	3/8"	4.57"/116.1MM	No	6	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.45"/11.4MM
JHWISFXTM616	3/8"	6.57"/166.9MM	Yes	6	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.45"/11.4MM
JHWISFXM616	3/8"	6.57"/166.9MM	No	6	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.45"/11.4MM

Features

- Durable black oxide finish
- Socket retention pin is TIG welded, providing full rotation power to the socket
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Drive end has a 7/32" cross hole & bevel for ease of use
- Up to 30 degree angle offset
- Flextensions are designed for use on hand and power tools (Impulse or Direct drive); NOT FOR IMPACT TOOL USE
- Maximum working torque values: 160 Ft. Lbs. /1920 In. Lbs. /217 Nm
- Other lengths and socket sizes available by special order. Contact your Snap-on Industrial Brands representative
- See pages 290 to 292 for 1/2" Drive Socket Flextensions

⚠WARNING

JHW2-140B

JHW2-4A

3/8" DRIVE IMPACT EXTENSIONS AND ACCESSORIES

Black Industrial Finish

Product Code	Description	Length (Inches)	Socket Retention
JHW2-103A	Impact Extension	3	Spring Plunger
JHW2-106A	Impact Extension	6	Spring Plunger
JHW2-140B	Impact Universal Joint	2 1/4	Spring Plunger
JHW2-4A	1/2" M x 3/8" F Adapter	1 1/4	Spring Plunger

Fed. Spec: ANSI B107.2

Made in U.S.A.

JHW2-106A

JHW2-103A

Features

- Specially heat treated for impact use to provide long life, safety, and durability
- Spring plunger provides secure socket retention for safety and convenience
- Suitable for use with pneumatic and electric impact wrenches

3/8" DRIVE HEX TO SQUARE SHANK IMPACT EXTENSIONS

Black Industrial Finish

Product Code	Hex Shank Size (Inches)	Square Drive Size (Inches)	Length (Inches)
JHW2-02B	1/4	3/8	2
JHW2-33B	7/16	3/8	2 3/4

Made in U.S.A.

JHW2-02B

JHW2-33B

Features

- Specially heat treated for impact use to provide long life, safety, and durability
- Spring plunger provides secure socket retention for safety and convenience
- Suitable for use with pneumatic and electric impact wrenches
- 2-33B - Recommended working torque of 80 ft.lb

6 PIECE ADAPTOR SET

Black Finish and Impact, Furnished on Clip Rail

Product Code	Description
JHWWSB-6ADPA	6 Piece Adaptor Set

Contents Include:

Product Code	Description	Product Code	Description
JHWMB-130B	1/4" F x 3/8" M, Black Finish	JHW4-2F	1/2" F x 3/8" M, Impact, Black
JHWMB-131BA	3/8" F x 1/4" M, Black Finish	JHW4-6	1/2" F x 3/4" M, Impact, Black
JHWBS-130B	3/8" F x 1/2" M, Black Finish	JHW6-4A	3/4" F x 1/2" M, Impact, Black

Made in U.S.A.

JHWWSB-6ADPA

Features

- Impact adaptors are suitable for use on electric and air impact wrenches
- Black finish adaptors are designed for use with hand drive tools

3/8" DRIVE HAND IMPACT DRIVER

Black Industrial Finish

Product Code	Length (Inches)	Shank Diameter (Inches)
JHWBHMD-30	5	1 1/4

Made in U.S.A.

JHWBHMD-30

Features

- Specially heat treated for impact use to provide long life, safety, and durability.
- Ball socket retention for fast socket changes.
- Ideal for loosening screws that cannot be loosened with an ordinary screwdriver.
- Impact driver is struck with a hammer to provide turning power.
- Hammer blow forces bit into screw head to reduce stripping.
- Hand impact driver can be used with all 3/8" drive sockets, such as 6-point and hex-bit sockets.

7 PIECE 3/8" DRIVE IMPACT DRIVER SET

Packed in Exclusive Keep-Safe-Foam System

Product Code	Description
JHWWSBHMD-7	7 Piece Impact Driver Set

Contents Include:

Product Code	Description	Product Code	Description
JHWBHMD-30	Hand Impact Driver	JHWBA-7A-2P	#2 Phillips® Bit Socket
JHWBA-7A-2S	7/32" x .040" Slotted Bit Socket	JHWBA-10A-3P	#3 Phillips® Bit Socket
JHWBA-10A-3S	9/32" x .045" Slotted Bit Socket	JHWBA-12A-4P	#4 Phillips® Bit Socket
JHWBA-10A-4S	5/16" x .055" Slotted Bit Socket		

Made in U.S.A.

JHWWSBHMD-7

3/8" DRIVE SHALLOW IMPACT SOCKETS, 6 POINT, SAE

Black Industrial Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW2-608	1/4	1 1/32	11/16	1/2	7/32	9/16	7/32	17/32
JHW2-610	5/16	1 1/32	11/16	1/2	1/4	9/16	9/32	17/32
JHW2-612	3/8	1 1/32	11/16	5/8	9/32	9/16	11/32	17/32
JHW2-614	7/16	1 1/16	11/16	21/32	9/32	19/32	11/32	-
JHW2-616	1/2	1 1/16	3/4	3/4	5/16	19/32	3/8	-
JHW2-618	9/16	1 3/32	13/16	13/16	9/16	19/32	17/32	-
JHW2-620	5/8	1 1/8	29/32	29/32	19/32	5/8	5/8	-
JHW2-622	11/16	1 5/32	31/32	31/32	19/32	5/8	21/32	-
JHW2-624	3/4	1 3/16	1 1/16	1 1/16	21/32	11/16	23/32	-
JHW2-626	13/16	1 1/4	1 1/8	1 1/8	11/16	23/32	25/32	-
JHW2-628	7/8	1 9/32	1 3/16	1 3/16	3/4	3/4	27/32	-
JHW2-630	15/16	1 5/16	1 9/32	1 9/32	25/32	13/16	29/32	-
JHW2-632	1	1 5/16	1 11/32	1 11/32	25/32	25/32	31/32	-

Fed. Spec: ANSI B107.2

TOOLS @ HEIGHT DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW2-618 JHW2-608

JHWWS-2-8 8 Piece 3/8" Drive Shallow 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW2-610	5/16	JHW2-618	9/16
JHW2-612	3/8	JHW2-620	5/8
JHW2-614	7/16	JHW2-622	11/16
JHW2-616	1/2	JHW2-624	3/4

JHWWS-2-8

JHWWS-2-13 13 Piece 3/8" Drive Shallow 6 Point Impact Socket Set on Clip Rail

Contents Include:

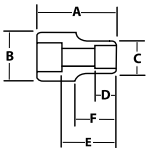
Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW2-608	1/4	JHW2-618	9/16	JHW2-628	7/8
JHW2-610	5/16	JHW2-620	5/8	JHW2-630	15/16
JHW2-612	3/8	JHW2-622	11/16	JHW2-632	1
JHW2-614	7/16	JHW2-624	3/4		
JHW2-616	1/2	JHW2-626	13/16		

JHWWS-2-13

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

Made in U.S.A.



3/8" DRIVE UNIVERSAL IMPACT SOCKETS, 6 POINT, SAE

Black Industrial Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW36212	3/8	2 1/4	1	19/16	9/16	9/16	5/16	15/16
JHW36214	7/16	2 1/4	1	11/16	9/16	9/16	9/16	15/16
JHW36216	1/2	2 1/3	1	13/16	9/16	9/16	7/16	1 1/16
JHW36218	9/16	2 1/3	1	13/16	9/16	9/16	9/16	1 1/16
JHW36220	5/8	2 1/3	1	14/16	9/16	9/16	9/16	1 1/16
JHW36222	11/16	2 5/8	1	1	9/16	11/16	19/16	1 4/16
JHW36224	3/4	2 5/8	1	1 3/16	9/16	11/16	11/16	1 4/16

Fed. Spec: ANSI B107.2

JHW36224

JHW36912 7 Piece 3/8" Drive Universal 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW36212	3/8	JHW36220	5/8
JHW36214	7/16	JHW36222	11/16
JHW36216	1/2	JHW36224	3/4
JHW36218	9/16		

JHW36912

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability
- Drive end features pin retention hole and groove

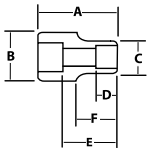
WARNING

TOOLS @ HEIGHT
DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW35326 JHW35310

JHW36921



JHW12-616 JHW12-610

JHWWS-12-8

JHWWS-12-12

3/8" DRIVE SHALLOW IMPACT SOCKETS, 12 POINT, SAE

Black Industrial Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	E Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW35310	5/16	1 1/8	3/4	1/2	3/8	/	1/4	1/2
JHW35312	3/8	1 1/8	3/4	1/2	3/8	/	3/8	1/2
JHW35314	7/16	1 1/8	3/4	5/8	3/8	/	3/8	1/2
JHW35316	1/2	1 1/8	3/4	3/4	3/8	/	3/8	/
JHW35318	9/16	1 1/8	3/4	3/4	3/8	/	1/2	/
JHW35320	5/8	1 1/8	1	15/16	1/2	/	1/2	/
JHW35322	11/16	1 1/8	1	15/16	1/2	/	1/2	/
JHW35324	3/4	1 1/8	1	1	1/2	/	5/8	/
JHW35326	13/16	1 1/8	1 1/8	1	1/2	/	3/4	/
JHW35328	7/8	1 1/8	1 1/8	1 1/8	1/2	/	3/4	/
JHW35330	15/16	1 1/8	1 1/4	1 1/4	1/2	/	3/4	/
JHW35332	1	1 1/8	1 3/8	1 3/8	1/2	/	1	/

JHW36921 12 piece 3/8" Drive Shallow 12 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW35310	5/16	JHW35318	9/16	JHW35326	13/16
JHW35312	3/8	JHW35320	5/8	JHW35328	7/8
JHW35314	7/16	JHW35322	11/16	JHW35330	15/16
JHW35316	1/2	JHW35324	3/4	JHW35332	1

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 or 12 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability
- Drive end features pin retention hole and groove

3/8" DRIVE DEEP IMPACT SOCKETS, 6 POINT, SAE

Black Industrial Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	E Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW12-610	5/16	2 1/8	11/16	1/2	1/4	1 21/32	9/32	1 5/8
JHW12-612	3/8	2 1/8	11/16	5/8	9/32	1 5/8	11/32	1 5/8
JHW12-614	7/16	2 1/8	11/16	21/32	11/32	1 5/8	11/32	1 5/8
JHW12-616	1/2	2 1/8	3/4	3/4	3/8	1 15/32	7/16	-
JHW12-618	9/16	2 3/8	13/16	13/16	7/16	1 1/2	17/32	-
JHW12-620	5/8	2 3/8	29/32	29/32	15/32	11/2	5/8	-
JHW12-622	11/16	2 5/8	31/32	31/32	1/2	1 19/32	21/32	-
JHW12-624	3/4	2 5/8	1 1/16	1 1/16	9/16	1 19/32	23/32	-
JHW12-626	13/16	2 3/4	1 1/8	1 1/8	9/16	1 25/32	25/32	-
JHW12-628	7/8	2 3/4	1 3/16	1 3/16	19/32	1 7/8	27/32	-
JHW12-630	15/16	2 3/4	1 9/32	1 9/32	19/32	1 15/16	29/32	-
JHW12-632	1	2 3/4	1 11/32	1 11/32	5/8	2	1	-

Fed. Spec: ANSI B107.2

JHWWS-12-8 8 Piece 3/8" Drive Deep 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW12-610	5/16	JHW12-614	7/16	JHW12-618	9/16	JHW12-622	11/16
JHW12-612	3/8	JHW12-616	1/2	JHW12-620	5/8	JHW12-624	3/4

JHWWS-12-12 12 Piece 3/8" Drive Deep 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW12-610	5/16	JHW12-616	1/2	JHW12-622	11/16	JHW12-628	7/8
JHW12-612	3/8	JHW12-618	9/16	JHW12-624	3/4	JHW12-630	15/16
JHW12-614	7/16	JHW12-620	5/8	JHW12-626	13/16	JHW12-632	1

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

Made in U.S.A.

3/8" DRIVE DEEP IMPACT SOCKETS, 12 POINT, SAE

Black Industrial Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW36410	5/16	2 1/2	3/4	1/2	1/2	/	3/8	1 1/4
JHW36412	3/8	2 1/2	3/4	1/2	3/4	/	1/2	1 1/4
JHW36414	7/16	2 1/2	3/4	5/8	3/4	/	1/2	1 1/4
JHW36416	1/2	2 1/2	3/4	3/4	1	/	1/2	/
JHW36418	9/16	2 1/2	3/4	3/4	1	/	1/2	/
JHW36420	5/8	2 1/2	1	1	1	/	1/2	/
JHW36422	11/16	2 1/2	1	1	1	/	1/2	/
JHW36424	3/4	2 1/2	1	1	1	/	3/4	/
JHW36426	13/16	2 1/2	1	1	1	/	3/4	/
JHW36428	7/8	2 1/2	1 1/8	1 1/8	1	/	3/4	/
JHW36430	15/16	2 1/2	1 1/4	1 1/4	1	/	5/8	/
JHW36432	1	2 1/2	1 3/8	1 3/8	1	/	1	/

JHW36416 JHW36410

TOOLS @ HEIGHT DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW36922 12 piece 3/8" Drive Shallow 12 Point Impact Socket Set on Clip Rail

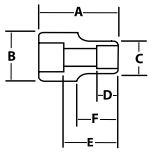
Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW36410	5/16	JHW36418	9/16	JHW36426	13/16
JHW36412	3/8	JHW36420	5/8	JHW36428	7/8
JHW36414	7/16	JHW36422	11/16	JHW36430	15/16
JHW36416	1/2	JHW36424	3/4	JHW36432	1

JHW36922

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 or 12 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability
- Drive end features pin retention hole and groove



3/8" DRIVE SHALLOW IMPACT SOCKETS, 6 POINT, METRIC

Black Industrial Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW2M-607	7	1 1/32	11/16	7/16	7/32	9/16	1/4	17/32
JHW2M-608	8	1 1/32	11/16	1/2	1/4	9/16	9/32	17/32
JHW2M-609	9	1 1/32	11/16	9/16	9/32	9/16	11/32	17/32
JHW2M-610	10	1 1/32	11/16	5/8	9/32	9/16	11/32	17/32
JHW2M-611	11	1 1/32	11/16	21/32	9/32	19/32	11/32	9/16
JHW2M-612	12	1 1/16	23/32	23/32	9/32	9/16	11/32	-
JHW2M-613	13	1 1/16	25/32	25/32	9/32	19/32	3/8	-
JHW2M-614	14	1 3/32	13/16	13/16	9/16	19/32	1/2	-
JHW2M-615	15	1 3/32	27/32	27/32	9/16	19/32	9/16	-
JHW2M-616	16	1 1/8	29/32	29/32	19/32	5/8	19/32	-
JHW2M-617	17	1 5/32	31/32	31/32	19/32	5/8	5/8	-
JHW2M-618	18	1 5/32	1	1	5/8	21/32	11/16	-
JHW2M-619	19	1 3/16	1 1/16	1 1/16	21/32	11/16	23/32	-

JHW2M-614 JHW2M-607

JHWMS-2-13H 13 Piece 3/8" Drive Shallow 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW2M-607	7	JHW2M-612	12	JHW2M-617	17
JHW2M-608	8	JHW2M-613	13	JHW2M-618	18
JHW2M-609	9	JHW2M-614	14	JHW2M-619	19
JHW2M-610	10	JHW2M-615	15		
JHW2M-611	11	JHW2M-616	16		

JHWMS-2-13H

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

Made in U.S.A.

WARNING

TOOLS @ HEIGHT
DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

3/8" DRIVE SHALLOW IMPACT SOCKETS, 12 POINT, METRIC

Black Industrial Finish

Product Code	Size (MM)	A Overall Length (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	E Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW36607	7	1 1/8	3/4	1/2	3/8	/	3/8	1/2
JHW36608	8	1 1/8	3/4	1/2	3/8	/	1/2	1/2
JHW36609	9	1 1/8	3/4	1/2	3/8	/	1/2	1/2
JHW36610	10	1 1/8	3/4	1/2	3/8	/	1/2	1/2
JHW36611	11	1 1/8	3/4	1/2	1/2	/	1/2	1/2
JHW36612	12	1 1/8	3/4	3/4	1/2	/	1/2	/
JHW36613	13	1 1/8	3/4	3/4	1/2	/	1/2	/
JHW36614	14	1 1/8	3/4	3/4	1/2	/	1/2	/
JHW36615	15	1 1/8	7/8	7/8	1/2	/	1/2	/
JHW36616	16	1 1/8	7/8	1	1/2	/	1/2	/
JHW36617	17	1 1/8	7/8	1	1/2	/	5/8	/
JHW36618	18	1 1/8	1	1	1/2	/	5/8	/
JHW36619	19	1 1/8	1	1	1/2	/	5/8	/

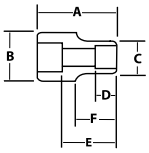
JHW36612 JHW36607

JHW36923 13 Piece 3/8" Drive Shallow 12 point Impact Socket Set on Clip and Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW36607	7	JHW36612	12	JHW36617	17
JHW36608	8	JHW36613	13	JHW36618	18
JHW36609	9	JHW36614	14	JHW36619	19
JHW36610	10	JHW36615	15		
JHW36611	11	JHW36616	16		

JHW36923



Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 or 12 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability
- Drive end features pin retention hole and groove

3/8" DRIVE UNIVERSAL IMPACT SOCKETS, 6 POINT, METRIC

Black Industrial Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	E Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW36810	10	2 1/4	7/8	5/8	3/8	1/2	5/16	15/16
JHW36811	11	2 1/4	7/8	11/16	1/2	1/2	3/8	15/16
JHW36812	12	2 1/4	7/8	11/16	1/2	1/2	3/8	15/16
JHW36813	13	3/8	7/8	13/16	1/2	9/16	3/8	1 1/16
JHW36814	14	3/8	7/8	13/16	1/2	9/16	1/2	1 1/16
JHW36815	15	3/8	7/8	7/8	1/2	9/16	9/16	1 1/16
JHW36816	16	3/8	7/8	7/8	1/2	9/16	9/16	1 1/16
JHW36817	17	3/8	7/8	1	1/2	11/16	5/8	1 1/4
JHW36818	18	2 5/8	7/8	1 1/16	1/2	11/16	11/16	1 1/4
JHW36819	19	2 5/8	7/8	1/8	1/2	11/16	11/16	1 1/4

JHW36819

JHW36910 10 Piece 3/8" Drive Universal 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW36810	10	JHW36814	14	JHW36818	18
JHW36811	11	JHW36815	15	JHW36819	19
JHW36812	12	JHW36816	16		
JHW36813	13	JHW36817	17		

JHW36910

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability
- Drive end features pin retention hole and groove

3/8" DRIVE DEEP IMPACT SOCKETS, 6 POINT, METRIC

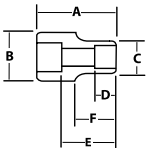
Black Industrial Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW12M-607	7	2 1/8	11/16	7/16	9/32	1 11/16	1/4	1 5/8
JHW12M-608	8	2 1/8	11/16	1/2	1/4	1 11/16	9/32	1 5/8
JHW12M-609	9	2 1/8	11/16	9/16	9/32	1 11/16	11/32	1 5/8
JHW12M-610	10	2 1/8	11/16	5/8	9/32	1 11/16	11/32	1 5/8
JHW12M-611	11	2 1/8	11/16	21/32	21/64	1 11/16	11/32	1 5/8
JHW12M-612	12	2 1/8	23/32	23/32	3/8	1 23/32	7/16	-
JHW12M-613	13	2 1/8	25/32	25/32	7/16	1 3/8	15/32	-
JHW12M-614	14	2 3/8	13/16	13/16	13/32	1 9/16	1/2	-
JHW12M-615	15	2 3/8	27/32	27/32	13/32	1 9/16	9/16	-
JHW12M-616	16	2 3/8	29/32	29/32	13/32	1 9/16	19/32	-
JHW12M-617	17	2 5/8	31/32	31/32	7/16	1 3/4	5/8	-
JHW12M-618	18	2 5/8	1	1	7/16	1 3/4	11/16	-
JHW12M-619	19	2 5/8	1 1/16	1 1/16	9/16	1 3/4	23/32	-
JHW12M-620	20	2 5/8	1 1/8	1 1/8	15/32	1 3/4	3/4	-
JHW12M-621	21	2 5/8	1 5/32	1 5/32	1/2	1 3/4	25/32	-
JHW12M-622	22	2 7/8	1 3/16	1 3/16	1/2	1 31/32	27/32	-
JHW12M-623	23	2 7/8	1 1/4	1 1/4	17/32	1 31/32	7/8	-
JHW12M-624	24	2 7/8	1 5/16	1 5/16	19/32	1 31/32	29/32	-

TOOLS @ HEIGHT DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW12M-614 JHW12M-607



JHWMS-12-13H

13 Piece 3/8" Drive Deep 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW12M-607	7	JHW12M-612	12	JHW12M-617	17
JHW12M-608	8	JHW12M-613	13	JHW12M-618	18
JHW12M-609	9	JHW12M-614	14	JHW12M-619	19
JHW12M-610	10	JHW12M-615	15		
JHW12M-611	11	JHW12M-616	16		

JHWMS-12-13H

JHWMS-12-18H

18 Piece 3/8" Drive Deep 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW12M-607	7	JHW12M-613	13	JHW12M-619	19
JHW12M-608	8	JHW12M-614	14	JHW12M-620	20
JHW12M-609	9	JHW12M-615	15	JHW12M-621	21
JHW12M-610	10	JHW12M-616	16	JHW12M-622	22
JHW12M-611	11	JHW12M-617	17	JHW12M-623	23
JHW12M-612	12	JHW12M-618	18	JHW12M-624	24

JHWMS-12-18H

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

Made in U.S.A.

3/8" DRIVE HEX DRIVERS

Product Code	Size	Overall Length (Inches)	Product Code Bits	Optional Ret Ring
JHW2MA-612	12 mm	72.7 mm	JHW2MA-612-2	2-1XS
JHW2MA-614	14 mm	72.7 mm	JHW2MA-614-2	2-1XS
JHW2A-616	1/2"	2 7/8"	JHW2A-616-2	2-1XS
JHW2A-618	9/16"	2 7/8"	JHW2A-618-2	2-1XS

Features

- Designed for use with pneumatic or cordless impact guns
- Optional retaining ring ensures positive attachment to anvil
- Manufactured from special alloy steel and heat treated for optimum strength and durability
- Williams® bits are designed with a precise fit and tight tolerances to prevent slippage and disengagement
- Outperforms one-piece design models – our two-piece design makes replacement economical and convenient
- Bits can be easily replaced by hand - no need to put them in a vice and punch them out with a hammer
- Optional retaining rings available for added protection

Made in U.S.A.

JHW2MA-614

JHW2MA-614 with Optional Ret Ring 2-1XS

WARNING

TOOLS @ HEIGHT
DROP PREVENTION SYSTEM

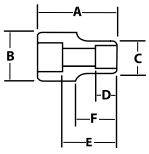
Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

3/8" DRIVE DEEP IMPACT SOCKETS, 12 POINT, METRIC

Black Industrial Finish

Product Code	Size (mm)	A Overall Length (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW35407	7	2 ½	¾	½	½	/	¼	1 ¼
JHW35408	8	2 ½	¾	½	½	/	¼	1 ¼
JHW35409	9	2 ½	¾	½	½	/	¼	1 ¼
JHW35410	10	2 ½	¾	½	¾	/	⅜	1 ¼
JHW35411	11	2 ½	¾	½	¾	/	⅜	1 ¼
JHW35412	12	2 ½	¾	¾	¾	/	⅜	/
JHW35413	13	2 ½	¾	¾	⅞	/	½	/
JHW35414	14	2 ½	¾	¾	⅞	/	½	/
JHW35415	15	2 ½	⅞	⅞	1	/	½	/
JHW35416	16	2 ½	⅞	⅞	1	/	½	/
JHW35417	17	2 ½	⅞	⅞	1	/	½	/
JHW35418	18	2 ½	⅞	⅞	1	/	⅝	/
JHW35419	19	2 ½	1	1	1	/	⅝	/

JHW35412 JHW35407



JHW36924 13 Piece 3/8" Drive Deep 12 point Impact Socket Set on Clip and Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW35407	7	JHW35411	11	JHW35415	15
JHW35408	8	JHW35412	12	JHW35416	16
JHW35409	9	JHW35413	13	JHW35417	17
JHW35410	10	JHW35414	14	JHW35418	18
				JHW35419	19

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 or 12 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability
- Drive end features pin retention hole and groove

JHW36924

57 PIECE 1/2" DRIVE SOCKET AND DRIVE TOOL SET

8 & 12 Point SAE, with Metal Box

Product Code	Description
JHWWSS-57TB	57 Piece Tool Set with JHWTB-6124B Metal Tool Box
JHWWSS-57F	57 Piece Tool Set Only

JHWWSS-57TB

Contents Include:

Drive Tools:

Product Code	Description
JHWS-15A	18" Speeder Handle
JHWS-20A	12" Sliding T-Handle
JHWS-40AA	10 13/16" Flex Handle
JHWS-41AA	15 1/2" Flex Handle
JHWS-52EHA	10 3/8" Enclosed Head Ratchet
JHWS-52EHLA	15" Enclosed Head Ratchet

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWST-1212	3/8
JHWST-1214	7/16
JHWST-1216	1/2
JHWST-1218	9/16
JHWST-1220	5/8
JHWST-1222	11/16
JHWST-1224	3/4
JHWST-1226	13/16
JHWST-1228	7/8
JHWST-1230	15/16
JHWST-1232	1
JHWST-1234	1 1/16
JHWST-1236	1 1/8
JHWST-1238	1 3/16
JHWST-1240	1 1/4
JHWST-1242	1 5/16
JHWST-1244	1 3/8
JHWST-1246	1 7/16
JHWST-1248	1 1/2

Standard Hex Bit Sockets

Product Code	Size (Inches)
JHWSA-8A	1/4
JHWSA-10A	5/16
JHWSA-12A	3/8
JHWSA-16A	1/2
JHWSA-18A	9/16
JHWSA-20A	5/8

Drive Tools:

Product Code	Description
JHWS-70	Ratchet Spinner Disk
JHWS-102P	2" Extension
JHWS-110P	5" Extension
JHWS-115P	10" Extension
JHWS-140A	Universal Joint

Deep 12-Point Sockets

Product Code	Size (Inches)
JHWSD-1216	1/2
JHWSD-1218	9/16
JHWSD-1220	5/8
JHWSD-1222	11/16
JHWSD-1224	3/4
JHWSD-1226	13/16
JHWSD-1228	7/8
JHWSD-1230	15/16
JHWSD-1232	1
JHWSD-1234	1 1/16
JHWSD-1236	1 1/8

Shallow 8-Point Sockets

Product Code	Size (Inches)
JHWST-812	3/8
JHWST-814	7/16
JHWST-816	1/2
JHWST-818	9/16
JHWST-820	5/8
JHWST-822	11/16
JHWST-824	3/4
JHWST-826	13/16
JHWST-828	7/8
JHWST-832	1

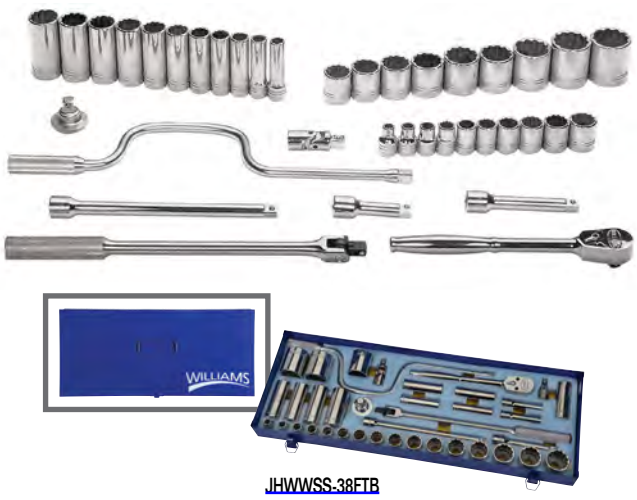
Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

WARNING

38 PIECE 1/2" DRIVE SOCKET AND DRIVE TOOL SET



JHWWSS-38FTB

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

12 Point SAE, with Metal Box

Product Code	Description
JHWWSS-38FTB	38 Piece Tool Set with JHWTB-104 Metal Tool Box
JHWWSS-38F	38 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWS-15A	18" Speeder Handle
JHWS-41AA	15 ½" Flex Handle
JHWS-52EHA	10 3/8" Enclosed Head Ratchet
JHWS-70	Ratchet Spinner Disk

Drive Tools:

Product Code	Description
JHWS-140A	Universal Joint
JHWS-102P	2" Extension
JHWS-110P	5" Extension
JHWS-115P	10" Extension

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWST-1212	3/8
JHWST-1214	7/16
JHWST-1216	1/2
JHWST-1218	9/16
JHWST-1220	5/8
JHWST-1222	11/16
JHWST-1224	3/4
JHWST-1226	13/16
JHWST-1228	7/8
JHWST-1230	15/16
JHWST-1232	1
JHWST-1234	1 1/16
JHWST-1236	1 1/8
JHWST-1238	1 3/16
JHWST-1240	1 1/4
JHWST-1242	1 5/16

Shallow 12-Point Sockets

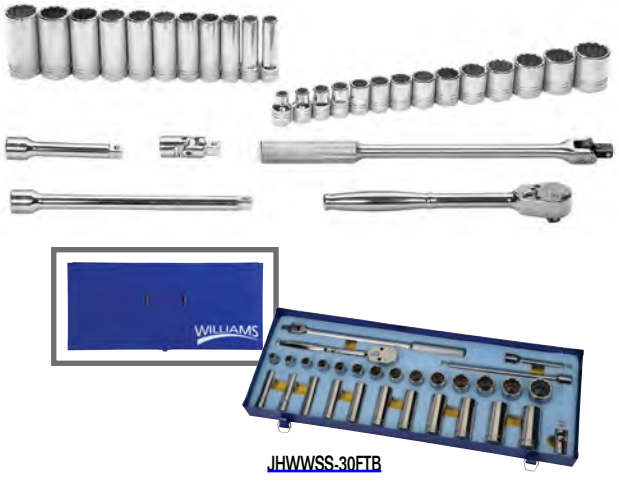
Product Code	Size (Inches)
JHWST-1244	1 3/8
JHWST-1246	1 7/16
JHWST-1248	1 1/2

Deep 12-Point Sockets

Product Code	Size (Inches)
JHWSD-1216	1/2
JHWSD-1218	9/16
JHWSD-1220	5/8
JHWSD-1222	11/16
JHWSD-1224	3/4
JHWSD-1226	13/16
JHWSD-1228	7/8
JHWSD-1230	15/16
JHWSD-1232	1
JHWSD-1234	1 1/16
JHWSD-1236	1 1/8

Made in U.S.A.

30 PIECE 1/2" DRIVE SOCKET AND DRIVE TOOL SET



JHWWSS-30FTB

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

12 Point SAE, with Metal Box

Product Code	Description
JHWWSS-30FTB	30 Piece Tool Set with JHWTB-104 Metal Tool Box
JHWWSS-30F	30 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWS-41AA	15 ½" Flex Handle
JHWS-52EHA	10 3/8" Enclosed Head Ratchet
JHWS-140A	Universal Joint

Drive Tools:

Product Code	Description
JHWS-110P	5" Extension
JHWS-115P	10" Extension

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWST-1212	3/8
JHWST-1214	7/16
JHWST-1216	1/2
JHWST-1218	9/16
JHWST-1220	5/8
JHWST-1222	11/16
JHWST-1224	3/4
JHWST-1226	13/16
JHWST-1228	7/8
JHWST-1230	15/16
JHWST-1232	1
JHWST-1234	1 1/16
JHWST-1236	1 1/8
JHWST-1240	1 1/4

Deep 12-Point Sockets

Product Code	Size (Inches)
JHWSD-1216	1/2
JHWSD-1218	9/16
JHWSD-1220	5/8
JHWSD-1222	11/16
JHWSD-1224	3/4
JHWSD-1226	13/16
JHWSD-1228	7/8
JHWSD-1230	15/16
JHWSD-1232	1
JHWSD-1234	1 1/16
JHWSD-1236	1 1/8

Made in U.S.A.

22 PIECE 1/2" DRIVE SOCKET AND DRIVE TOOL SET

12 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSS-22FTB	22 Piece Tool Set with JHWTB-104 Metal Tool Box
JHWWSS-22F	22 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWS-15A	18" Speeder Handle
JHWS-41AA	15 ½" Flex Handle
JHWS-52EHA	10 3/8" Enclosed Head Ratchet
JHWS-140A	Universal Joint

Drive Tools:

Product Code	Description
JHWS-102P	2" Extension
JHWS-110P	5" Extension
JHWS-115P	10" Extension

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWST-1212	3/8
JHWST-1214	7/16
JHWST-1216	1/2
JHWST-1218	9/16
JHWST-1220	5/8
JHWST-1222	11/16
JHWST-1224	3/4
JHWST-1226	13/16

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWST-1228	7/8
JHWST-1230	15/16
JHWST-1232	1
JHWST-1234	1 1/16
JHWST-1236	1 1/8
JHWST-1238	1 3/16
JHWST-1240	1 1/4

JHWWSS-22FTB

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

19 PIECE 1/2" DRIVE SOCKET AND DRIVE TOOL SET

12 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSS-19FTB	19 Piece Tool Set with JHWTB103 Metal Tool Box
JHWWSS-19F	19 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWS-41AA	15 ½" Flex Handle
JHWS-52EHA	10 3/8" Enclosed Head Ratchet

Drive Tools:

Product Code	Description
JHWS-110P	5" Extension
JHWS-140A	Universal Joint

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWST-1212	3/8
JHWST-1214	7/16
JHWST-1216	1/2
JHWST-1218	9/16
JHWST-1220	5/8
JHWST-1222	11/16
JHWST-1224	3/4
JHWST-1226	13/16

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWST-1228	7/8
JHWST-1230	15/16
JHWST-1232	1
JHWST-1234	1 1/16
JHWST-1236	1 1/8
JHWST-1238	1 3/16
JHWST-1240	1 1/4

JHWWSS-19FTB

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

WARNING

18 PIECE 1/2" DRIVE SOCKET AND DRIVE TOOL SET

JHWWSS18HFTB

6 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSS18HFTB	18 Piece Tool Set with JHWTB103 Metal Tool Box
JHWWSS-18HF	18 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWS-41AA	15 1/2" Flex Handle
JHWS-52EHA	10 3/8" Enclosed Head Ratchet

Drive Tools:

Product Code	Description
JHWS-110P	5" Extension
JHWS-140A	Universal Joint

Shallow 6-Point Sockets

Product Code	Size (Inches)
JHWST-612	3/8
JHWST-614	7/16
JHWST-616	1/2
JHWST-618	9/16
JHWST-620	5/8
JHWST-622	11/16
JHWST-624	3/4

Shallow 6-Point Sockets

Product Code	Size (Inches)
JHWST-626	13/16
JHWST-628	7/8
JHWST-630	15/16
JHWST-632	1
JHWST-634	1 1/16
JHWST-636	1 1/8
JHWST-640	1 1/4

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

15 PIECE 1/2" DRIVE SOCKET AND DRIVE TOOL SET

JHWWSS-15FTB

12 Point SAE, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWWSS-15FTB	15 Piece Tool Set with JHWTB103 Metal Tool Box
JHWWSS-15F	15 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWS-41AA	15 1/2" Flex Handle
JHWS-52EHA	10 3/8" Enclosed Head Ratchet
JHWS-110P	5" Extension
JHWS-115P	10" Extension
JHWS-140A	Universal Joint

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWST-1214	7/16
JHWST-1216	1/2
JHWST-1218	9/16
JHWST-1220	5/8
JHWST-1222	11/16
JHWST-1224	3/4
JHWST-1226	13/16
JHWST-1228	7/8
JHWST-1230	15/16
JHWST-1232	1

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

47 PIECE 1/2" DRIVE SOCKET AND DRIVE TOOL SET

12 Point Metric, with Metal Box

Product Code	Description
JHWMSS-47TB	47 Piece Tool Set with JHWTB-6124B Metal Tool Box (Keep Safe Foam Not Included)
JHWMSS-47F	47 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWS-15A	18" Speeder Handle
JHWS-20A	12" Sliding T-Handle
JHWS-40AA	10 13/16" Flex Handle
JHWS-41AA	15 1/2" Flex Handle
JHWS-52EHA	10 3/8" Enclosed Head Ratchet
JHWS-60D	Stud Remover
JHWS-70	Ratchet Spinner Disk
JHWS-102P	2" Extension
JHWS-110P	5" Extension
JHWS-115P	10" Extension
JHWS-140A	Universal Joint

Deep 12-Point Sockets

Product Code	Size (MM)
JHWSMD-1213	13
JHWSMD-1214	14
JHWSMD-1215	15
JHWSMD-1216	16
JHWSMD-1217	17
JHWSMD-1218	18
JHWSMD-1219	19
JHWSMD-1221	21
JHWSMD-1222	22
JHWSMD-1224	24
JHWSMD-1227	27
JHWSMD-1230	30

Shallow 12-Point Sockets

Product Code	Size (MM)
JHWSTM-1210	10
JHWSTM-1211	11
JHWSTM-1212	12
JHWSTM-1213	13
JHWSTM-1214	14
JHWSTM-1215	15
JHWSTM-1216	16
JHWSTM-1217	17
JHWSTM-1218	18
JHWSTM-1219	19
JHWSTM-1220	20
JHWSTM-1221	21
JHWSTM-1222	22
JHWSTM-1223	23
JHWSTM-1224	24
JHWSTM-1225	25
JHWSTM-1226	26
JHWSTM-1227	27
JHWSTM-1228	28
JHWSTM-1229	29
JHWSTM-1230	30
JHWSTM-1232	32
JHWSTM-1234	34
JHWSTM-1236	36

Made in U.S.A.

JHWMSS-47TB

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

33 PIECE 1/2" DRIVE SOCKET AND DRIVE TOOL SET

12 Point Metric, with Metal Box

Product Code	Description
JHWMSS-33FTB	33 Piece Tool Set with JHWTB-104 Metal Tool Box
JHWMSS-33F	33 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWS-41AA	15 1/2" Flex Handle
JHWS-52EHA	10 3/8" Enclosed Head Ratchet
JHWS-102P	2" Extension
JHWS-110P	5" Extension
JHWS-115P	10" Extension
JHWS-140A	Universal Joint

Deep 12-Point Sockets

Product Code	Size (MM)
JHWSMD-1213	13
JHWSMD-1214	14
JHWSMD-1215	15
JHWSMD-1216	16
JHWSMD-1217	17
JHWSMD-1218	18
JHWSMD-1219	19
JHWSMD-1221	21
JHWSMD-1222	22
JHWSMD-1224	24
JHWSMD-1227	27
JHWSMD-1230	30

Shallow 12-Point Sockets

Product Code	Size (MM)
JHWSTM-1210	10
JHWSTM-1211	11
JHWSTM-1212	12
JHWSTM-1213	13
JHWSTM-1214	14
JHWSTM-1215	15
JHWSTM-1216	16
JHWSTM-1217	17
JHWSTM-1218	18
JHWSTM-1219	19
JHWSTM-1220	20
JHWSTM-1221	21
JHWSTM-1222	22
JHWSTM-1223	23
JHWSTM-1224	24

Made in U.S.A.

JHWMSS-33FTB

Features

- All tools are professional quality, made of high-grade chrome vanadium steel.
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener.
- Metal tool box made for years of rugged use.

WARNING

29 PIECE 1/2" DRIVE SOCKET AND DRIVE TOOL SET

JHWMSS-29FTB

12 Point Metric, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWMSS-29FTB	29 Piece Tool Set with JHWTB-104 Metal Tool Box
JHWMSS-29F	29 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWS-41AA	15 ½" Flex Handle
JHWS-52EHA	10 ⅜" Enclosed Head Ratchet
JHWS-102P	2" Extension

Drive Tools:

Product Code	Description
JHWS-110P	5" Extension
JHWS-115P	10" Extension
JHWS-140A	Universal Joint

Shallow 12-Point Sockets

Product Code	Size (MM)
JHWSTM-1210	10
JHWSTM-1211	11
JHWSTM-1212	12
JHWSTM-1213	13
JHWSTM-1214	14
JHWSTM-1215	15
JHWSTM-1216	16
JHWSTM-1217	17
JHWSTM-1218	18
JHWSTM-1219	19
JHWSTM-1220	20
JHWSTM-1221	21

Shallow 12-Point Sockets

Product Code	Size (MM)
JHWSTM-1222	22
JHWSTM-1223	23
JHWSTM-1224	24
JHWSTM-1225	25
JHWSTM-1226	26
JHWSTM-1227	27
JHWSTM-1228	28
JHWSTM-1229	29
JHWSTM-1230	30
JHWSTM-1232	32
JHWSTM-1234	34

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

22 PIECE 1/2" DRIVE SOCKET AND DRIVE TOOL SET

JHWMSS-22FTB

12 Point Metric, Packed in Exclusive Keep-Safe-Foam System with Metal Box

Product Code	Description
JHWMSS-22FTB	22 Piece Tool Set with JHWTB-104 Metal Tool Box
JHWMSS-22F	22 Piece Tool Set Only - Packed in Keep Safe Foam System

Contents Include:

Drive Tools:

Product Code	Description
JHWS-41AA	15 ½" Flex Handle
JHWS-52EHA	10 ⅜" Enclosed Head Ratchet
JHWS-110P	5" Extension

Drive Tools:

Product Code	Description
JHWS-115P	10" Extension
JHWS-140A	Universal Joint

Shallow 6-Point Sockets

Product Code	Size (MM)
JHWSTM-1210	10
JHWSTM-1211	11
JHWSTM-1212	12
JHWSTM-1213	13
JHWSTM-1214	14
JHWSTM-1215	15
JHWSTM-1216	16
JHWSTM-1217	17
JHWSTM-1218	18

Shallow 12-Point Sockets

Product Code	Size (MM)
JHWSTM-1219	19
JHWSTM-1220	20
JHWSTM-1221	21
JHWSTM-1222	22
JHWSTM-1223	23
JHWSTM-1224	24
JHWSTM-1225	25
JHWSTM-1226	26

Features

- Keep-Safe-Foam system keeps tools organized and helps prevent loss
- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

20 PIECE 1/2" DRIVE SOCKET AND DRIVE TOOL SET

12 Point Metric, Packed in Exclusive Keep-Safe-Foam-System with Metal Box

Product Code	Description
JHWMSS-20FTB	20 Piece Tool Set with JHWTB-104 Metal Tool Box and Foam

Contents Include:

Drive Tools:

Product Code	Description
JHWS-41AA	15 ½" Flex Handle
JHWS-52EHA	10 3/8" Enclosed Head Ratchet
JHWS-110P	5" Extension

Shallow 12-Point Sockets

Product Code	Size (mm)
JHWSTM-1210	10
JHWSTM-1213	13
JHWSTM-1214	14
JHWSTM-1215	15
JHWSTM-1217	17
JHWSTM-1218	18
JHWSTM-1219	19
JHWSTM-1220	20
JHWSTM-1221	21

Shallow 12-Point Sockets

Product Code	Size (mm)
JHWSTM-1222	22
JHWSTM-1223	23
JHWSTM-1224	24
JHWSTM-1226	26
JHWSTM-1227	27
JHWSTM-1230	30
JHWSTM-1232	32
JHWSTM-1236	36

Features

- All tools are professional quality, made of high grade special alloy steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

JHWMSS-20FTB

WARNING

JHW50614B

146 PIECE 1/4", 3/8", 1/2" DRIVE SOCKET AND DRIVE TOOL SET

6 & 12 Point Rugged-Case-System Tool Set, SAE and Metric

Product Code	Description
JHW50614B	146 Piece 1/4", 3/8", 1/2" Drive Socket Set

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

1/4" Drive Contents Include:

1/4" Drive Tools

Ratchet
3" Extension
Handle
Universal Joint

1/4" Drive Deep 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
4	3/16
5	7/32
6	1/4
7	9/32
8	5/16
9	11/32
10	3/8
11	7/16
12	1/2
13	

1/4" Drive Shallow 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
4	5/32
5	3/16
5.5	7/32
6	1/4
7	9/32
8	5/16
9	11/32
10	3/8
11	7/16
12	1/2
13	9/16
14	

1/4" Drive Hex Bit Sockets

Metric Size (MM)	SAE Size (Inches)
3	1/8
4	5/32
5	3/16
6	7/32
7	1/4
8	5/16

1/4" Drive Screw-driver Bit Sockets

Size	Size
5/32" Slotted Tip	#0 Phillips Tip
7/32" Slotted Tip	#1 Phillips Tip
9/32" Slotted Tip	#2 Phillips Tip

1/4" Drive Torx Bit Sockets

Size	Size
T10	T25
T15	T27
T20	T30

3/8" Drive Contents Include:

3/8" Drive Tools

Ratchet
3" Extension
6" Extension
Adaptor - 3/8" F x 1/4" M

3/8" Drive Deep 12 Point Sockets

Metric Size (MM)	SAE Size (Inches)
6	1/4
7	5/16
8	3/8
9	7/16
10	1/2
11	9/16
12	5/8
13	11/16
14	3/4
15	13/16
16	7/8
17	15/16
18	1
19	

3/8" Drive Shallow 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
6	1/4
7	5/16
8	3/8
9	7/16
10	1/2
11	9/16
12	5/8
13	11/16
14	3/4
15	13/16
16	7/8
17	15/16
18	1
19	

3/8" Drive Spark Plug Socket

SAE Size (Inches)
5/8
13/16

1/2" Drive Contents Include:

1/2" Drive Tools

Ratchet
6" Extension
10" Extension
Universal Joint
Adaptor - 1/2" F x 3/8" M

1/2" Drive Shallow 12 Point Sockets

SAE Size (Inches)
3/8
7/16
1/2
9/16
5/8
11/16
3/4
13/16
7/8
15/16
1

138 PIECE 1/4", 3/8", 1/2" DRIVE SOCKET AND DRIVE TOOL SET

6 Point Rugged-Case-System Tool Set, SAE and Metric

Product Code	Description
JHW50612B	138 Piece 1/4", 3/8", 1/2" Drive Socket Set

1/4" Drive Contents Include:

1/4" Drive Tools

Ratchet
1 ½" Extension
3" Extension
Spinner Handle
Universal Joint
Hex Bit Holder
13 Piece Insert Bit Set

1/4" Drive Deep 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
4	5/32
5	3/16
6	7/32
7	1/4
8	9/32
9	5/16
10	11/32
11	3/8
12	7/16
13	1/2

1/4" Drive Shallow 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
4	5/32
5	3/16
5.5	7/32
6	1/4
7	9/32
8	5/16
9	11/32
10	3/8
11	7/16
12	1/2
13	

3/8" Drive Contents Include:

3/8" Drive Tools

Ratchet
3" Extension
6" Extension
Universal Joint
Adaptor
Hex Bit Holder

3/8" Drive Deep 12 Point Sockets

Metric Size (MM)	SAE Size (Inches)
10	3/8
11	7/16
12	1/2
13	9/16
14	5/8
15	11/16
16	3/4
17	13/16
18	7/8
19	

3/8" Drive Shallow 6 Point Sockets

Metric Size (MM)	SAE Size (Inches)
10	3/8
11	7/16
12	1/2
13	9/16
14	5/8
15	11/16
16	3/4
17	
18	
19	

1/2" Drive Contents Include:

1/2" Drive Tools

Ratchet
6" Extension
10" Extension
Universal Joint
Adaptor

1/2" Drive Shallow 12 Point Sockets

Metric Size (MM)	SAE Size (Inches)
10	3/8
11	7/16
12	1/2
13	9/16
14	5/8
15	11/16
16	3/4
17	13/16
18	7/8
19	15/16
21	1
22	1 1/16
24	1 1/8
27	1 3/16
30	1 1/4
32	

JHW50612B

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

WARNING

JHW50617B

61 PIECE 1/2" DRIVE SOCKET AND TOOL SET

12 Point Rugged-Case-System Tool Set, SAE and Metric

Product Code	Description
JHW50617B	61 Piece Socket, Wrench, and Screwdriver Set

1/2" Drive Contents Include:

1/2" Drive Tools

- Ratchet
- 3" Extension
- 6" Extension
- 10" Extension
- 15- ½" Flex Handle
- Universal Joint
- Adaptor
- Adaptor 1/2 F x 3/4 M

1/2" Drive Shallow 12 Point Sockets

Metric Size (MM)	SAE Size (Inches)
10	3/8
11	7/16
12	1/2
13	9/16
14	5/8
15	11/16
16	3/4
17	13/16
18	7/8
19	15/16
21	1
22	1 1/16
24	1 1/8
27	1 3/16
30	1 1/4
32	

12 Point Combination Wrenches

Metric Size (MM)	SAE Size (Inches)
6	1/4
8	5/16
10	3/8
12	7/16
13	1/2
14	9/16
15	5/8
17	11/16
19	3/4

Comfort Grip Screwdrivers

- 3/16" x 4" Slotted
- 1/4" x 4" Slotted
- # 1 x 3" Phillips
- # 2 x 4" Phillips

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

23 PIECE 1/2" DRIVE BASIC TOOL SET

12 Point Rugged-Case-System Tool Set, SAE

Product Code	Description
JHW50609	23 Piece Basic Tool Set, SAE

Contents Include:

1/2" Drive Tools Description	1/2" Drive Shallow 12-Point Sockets Size (Inches)
9 7/8" Quick-Release Ratchet	3/8
3" Extension	7/16
6" Extension	1/2
10" Extension	9/16
15" Flex Handle Breaker Bar	5/8
Universal Joint	11/16
1/2" F X 3/8" M Adapter	3/4
1/2" F X 3/4" M Adapter	13/16
	7/8
	15/16
	1
	1 1/16
	1 1/8
	1 3/16
	1 1/4

JHW50609

25 PIECE 1/2" DRIVE BASIC TOOL SET

12 Point Rugged-Case-System Tool Set, Metric

Product Code	Description
JHW50619	25 Piece Basic Tool Set, Metric

Contents Include:

1/2" Drive Tools Description	1/2" Drive Shallow 12-Point Sockets Size (MM)
9 7/8" Quick-Release Ratchet	10
3" Extension	11
6" Extension	12
10" Extension	13
15" Flex Handle Breaker Bar	14
Universal Joint	15
1/2" F X 3/8" M Adapter	16
1/2" F X 3/4" M Adapter	17
	18
	19
	20
	21
	22
	24
	27
	30
	32

JHW50619

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged high-density polyethylene (HDPE) cases that are strong and durable yet light in weight
- Case is shock proof at both high and low temperatures, equipped with heavy-duty metal latches and hinges
- Two-component handles are easy to grip and comfortable to carry

WARNING

JHW50668

23 PIECE 1/2" DRIVE SOCKET AND DRIVE TOOL SET

12 Point Compact Case Tool Set, SAE

Product Code	Description
JHW50668	23 Piece 1/2" Drive Socket and Drive Tool Set

Contents Include:

1/2" Drive Tools Description	1/2" Drive Deep 12 Point Sockets Size (Inches)	1/2" Drive Shallow 12 Point Sockets Size (Inches)
9 7/8" Pear Head Ratchet 15 1/2" Flex Handle 6" Extension	1/2 9/16 5/8 11/16 3/4 13/16 7/8	7/16 1/2 9/16 5/8 11/16 3/4 13/16 7/8 15/16 1 1 1/16 1 1/8 1 1/4

JHW50667

12 PIECE 1/2" DRIVE SOCKET AND DRIVE TOOL SET

12 Point Compact Case Tool Set, SAE

Product Code	Description
JHW50667	12 Piece 1/2" Drive Socket and Drive Tool Set

Contents Include:

1/2" Drive Tools Description	1/2" Drive Shallow 12 Point Sockets Size (Inches)
9 7/8" Pear Head Ratchet 6" Extension	1/2 9/16 5/8 11/16 3/4 13/16 7/8 15/16 1 1 1/8

JHW50669

12 PIECE 1/2" DRIVE SOCKET AND DRIVE TOOL SET

12 Point Compact Case Tool Set, MM

Product Code	Description
JHW50669	12 Piece 1/2" Drive Socket and Drive Tool Set

Contents Include:

1/2" Drive Tools Description	1/2" Drive Shallow 12 Point Sockets Size (Inches)
9 7/8" Pear Head Ratchet 6" Extension	12 13 14 15 16 17 18 19 22 24

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Packed in rugged compact high-density polyethylene (HDPE) cases that are strong and durable yet light in weight

1/2" DRIVE ENCLOSED HEAD RATCHETS

Williams® Sealed Narrow Head Design, Chrome and Black Industrial Finish

Product Code	Description	Length (Inches)	Number of Teeth
JHWS-52EHA	Chrome Finish Enclosed Head Ratchet	10 1/4	36
JHWS-52EHLA	Chrome Finish Enclosed Head Ratchet, Long	15	36
JHWSB-52EHLA	Black Industrial Finish Enclosed Head Ratchet, Long	15	36
JHWS-52EHFA	Chrome Finish Flex Head Ratchet	14 1/4	36
JHWSB-52EHA	Black Industrial Finish Enclosed Head Ratchet	10 1/4	36
JHWS-52EHRKA	Repair Kit "EHA" Model Enclosed Head Ratchets		

Fed. Spec: ANSI B107.10M

Features

- Enclosed head is sealed to prevent dust, dirt, and liquids from entering head, preserving internal lubrication
- Forged one-piece ratchet provide strength and safety for industrial applications
- Smooth comfort-grip handle permits all-day use without gloves
- 36 tooth gear with 10 degree of engagement allows engagement in tight working areas
- Nickel/Chrome plating provides increase protection from rust and corrosion
- Chrome finish models feature mirror-like exterior that can be easily cleaned after each use
- Single Pawl ratchet design
  1) Designed for tighter tolerances between pawl and gear which reduces metal fatigue and slippage under load
  2) Does not require as many working parts, reducing possible breakage and parts to repair
- Easy access reverse lever allows user to change working direction quickly and easily with only one hand

Made in U.S.A.

JHWSB-52EHA

JHWS-52EHLA

JHWSB-52EHLA

JHWS-52EHFA

JHWS-52EHA

1/2" DRIVE ROUND HEAD RATCHETS

Knurled Handle, Chrome and Black Industrial Finish

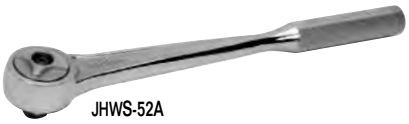
Product Code	Description	Length (Inches)	Number of Teeth
JHWS-52A	Chrome Finish Round Head Ratchet	11 5/16	72
JHWS-53A	Chrome Finish Round Head Ratchet, Long	15	72
JHWBS-52A	Black Industrial Finish Round Head Ratchet	11 5/16	72
JHWS-52ARK	Repair Kit		

Fed. Spec: ANSI B107.10M

Features

- Double pawl design with 72 teeth action provides a 5° ratcheting angle
- Shift lever reverses action instantly
- Knurled handle provides a non-slip grip
- Chrome finish models provides increased protection from rust and corrosion

Made in U.S.A.


JHWS-52A

JHWS-53A

JHWBS-52A

1/2" DRIVE ROUND HEAD LINEMAN'S RATCHET

Knurled Handle, Chrome Finish

Product Code	Description	Length (Inches)	Number of Teeth
JHWS-52LAB	Round Head Lineman's Ratchet	11 5/16	72
JHWS-52LARK	Repair Kit		

Fed. Spec: ANSI B107.10M

Features

- Same features as other Williams' round head ratchets
- Extra-large shift lever allows easy reversal even when wearing gloves

Made in U.S.A.

JHWS-52LAB

⚠WARNING

JHWBS-71CBA

1/2" DRIVE NARROW HEAD CONSTRUCTION RATCHET

Knurled Handle, Black Industrial Finish

Product Code	Description	Length (Inches)	Number of Teeth
JHWBS-71CBA	Narrow Head Construction Ratchet	15 13/16	36
JHWBS-71ARKA	Repair Kit		

Fed. Spec: ANSI B107.10M

Features

- 36 tooth gear with 10 degree of engagement allows engagement in tight working areas
- Extra-large shift lever reverses action instantly and easily, even when wearing gloves
- Tapered spud handle easily lines up bolt holes

Made in U.S.A.

JHWBS-62

BS-63A

JHWBS-63B

TOOLS @ HEIGHT
DROP PREVENTION SYSTEM

1/2" DRIVE SCAFFOLDING RATCHET

Product Code	Description	Product Code	Description
JHWBS-62	Scaffolding Ratchet with out pry bar	JHWBS-63BTIP	Hammer Tip
BS-63A	Scaffolding Ratchet with reversed pry bar	JHWBS-63BBAR	Pry Bar
JHWBS-63B	Scaffolding Ratchet with pry bar		
JHWBS-63BRK	Repair Kit		

Features

- 1/2" Drive with pinned 7/8" 6-point socket, 2-1/4" length
- 36 tooth gear with 10 degree of engagement allows engagement in tight working areas
- Bronze hammer head reduces rebound
- Pry bar handle provide alignment option
- Socket feature SUPERTORQUE™ lobular opening for greater turning power without deforming the fastener
- Easy access reversing lever allows user to change working direction quickly and easily with only one hand
- Tethering device attached to handle
- Repair kit includes ratchet repair kit and cover plate

Made in U.S.A.

JHWS-40AA

JHWSB-40AA

JHWBS-41AA

JHWS-20A

JHWS-10A

JHWS-15A

JHWS-41AA

1/2" DRIVE HANDLES

Knurled Handle, Chrome and Black Industrial Finish

Product Code	Description	Length (Inches)
JHWS-40AA	Chrome Flex Handle	10 13/16
JHWSB-40AA	Black Industrial Finish Flex Handle	10 13/16
JHWS-41AA	Chrome Flex Handle	15 1/2
JHWBS-41AA	Black Industrial Finish Flex Handle	15 1/2
JHWS-20A	Sliding T-Handle	12
JHWS-10A	Speeder Handle	13 5/8
JHWS-15A	Speeder Handle	18 1/16
JHWS-41RK	Flex Handle Repair Kit	

Fed. Spec: ANSI B107.10M

Features

- Chrome plating provides increased protection from rust and corrosion
- Drive handles provide extra leverage with greater strength than ratchets
- Speeder handle is ideal for fast turn down of fasteners

Made in U.S.A.

1/2" DRIVE EXTENSIONS AND ACCESSORIES

High-Polished Chrome Finish

Product Code	Description	Length (Inches)
JHWS-102P	Extension	2
JHWS-110P	Extension	5
JHWS-115P	Extension	10
JHWS-121P	Extension	20
JHWS-140A	Universal Joint	2 11/16
JHWS-70	Ratchet Spinner Disk	1 9/16

Fed. Spec: ANSI B107.10M

JHWS-70

JHWS-140A

JHWWSS-3XT 3 Piece Extension Set in Pouch

Contents Include:

Product Code	Size (Inches)
JHWS-102P	2
JHWS-110P	5
JHWS-115P	10

JHWWSS-3XT

JHWS-110P

Features

- Chrome plating provides increased protection from rust and corrosion
- Ball and spring socket retention
- Spinner disk is ideal for fast turn down of fasteners

Made in U.S.A.

1/2" DRIVE ADAPTORS AND EXTENSION ADAPTERS

High-Polished Chrome and Black Oxide Finish

Product Code	Length (Inches)	Male End (Inches)	Female End (Inches)
Chrome Finish Adapter			
JHWSH-130	1 15/16	3/4	1/2
Black Industrial Finish Adapters			
JHWSH-130B	1 15/16	3/4	1/2
JHWSH-131BF	2 5/16	1/2	3/4
Black Industrial Finish Extension Adapters			
JHWBS-05B	5	3/8	1/2
JHWBS-12B	12	3/8	1/2

Fed. Spec: ANSI B107.10M

JHWBS-05B

JHWBS-12B

Features

- Ball and spring socket retention
- Extension adapters offer convenience of extension and adapter in one tool

Made in U.S.A.

JHWSH-130

JHWSH-131BF

JHWSH-130B

1/2" DRIVE STUD REMOVER

Satin Chrome Finish

Product Code	Description	Length (Inches)	Capacity (Inches)
S-60E	Stud Remover	2 7/16	1/2 to 3/4

Fed. Spec: ANSI B107.10M

Features

- Knurled wheel grips studs during removal
- Drive shank extends through both sides of housing for even bearing surface
- Capacity is 1/2" to 3/4" stud diameter

Made in U.S.A.

S-60E

WARNING

JHW11920

JHW32026

JHW32027

JHW32028

JHWS-202P

1/2" DRIVE RATCHETS AND HANDLES

High-Polished Chrome Finish

Product Code	Description	Length (Inches)
JHW11920	Flex Handle, Comb, 3/8" x 1/2" Drive	10

Fed. Spec: ANSI B107.10M

Features

- High-polished chrome finish for easy cleaning
- Unique combination 3/8" x 1/2" drive flex handle offers convenience of both drive sizes on one handle

1/2" DRIVE LOCKING EXTENSIONS

High-Polished Chrome Finish

Product Code	Description	Length (Inches)
JHW32023	Locking Extension	3
JHW32024	Locking Extension	6
JHW32025	Locking Extension	10
JHW32026	Locking Extension	12
JHW32027	Locking Extension	18
JHW32028	Locking Extension	24

Fed. Spec: ANSI B107.10M

Features

- Chrome plating provides increased protection from rust and corrosion

1/2" WOBBLE EXTENSIONS

High-Polished Chrome Finish

Product Code	Length (Inches)
JHWS-202P	2
JHWS-205P	5
JHWS-211P	11
JHWS-220P	20

Features

- Chrome plating provides increased protection from rust and corrosion
- Provides 16 degrees of additional accessibility

JHWDTS-6

6 PIECE 1/2" DRIVE RATCHET AND DRIVE TOOL SET

Furnished in a Pouch

Product Code	Description
JHWDTS-6	6 Piece 1/2" Drive Ratchet and Accessory Set

Contents Include:

Product Code	Description
JHWS-52EHA	Chrome Finished Enclosed Head Ratchet
JHWS-102P	2" Extension
JHWS-115P	10" Extension
JHWS-41AA	Chrome Flex Handle
JHWS-140A	Universal Joint
JHWS-20A	Sliding T-Handle

Features

- All tools are professional quality, made of high-grade chrome vanadium steel

1/2" DRIVE SHALLOW 12 POINT SOCKETS, SAE

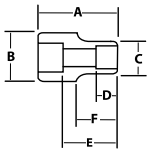
High-Polished Chrome Finish

		A	B	C	D	E		F
Product Code	Size (Inches)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)
JHWST-1212	3/8	1 1/2	29/32	19/32	5/16	7/8	11/32	23/32
JHWST-1214	7/16	1 1/2	29/32	21/32	3/8	7/8	13/32	23/32
JHWST-1216	1/2	1 1/2	29/32	3/4	3/8	7/8	15/32	23/32
JHWST-1218	9/16	1 1/2	29/32	13/16	3/8	7/8	15/32	23/32
JHWST-1219	19/32	1 1/2	29/32	7/8	3/8	7/8	15/32	23/32
JHWST-1220	5/8	1 1/2	29/32	29/32	9/16	7/8	15/32	-
JHWST-1221	21/32	1 1/2	31/32	31/32	19/32	7/8	15/32	-
JHWST-1222	11/16	1 1/2	31/32	31/32	13/16	27/32	5/8	-
JHWST-1224	3/4	1 1/2	1 1/32	1 1/32	13/16	27/32	23/32	-
JHWST-1225	25/32	1 1/2	1 1/16	1 1/16	13/16	27/32	3/4	-
JHWST-1226	13/16	1 1/2	1 1/8	1 1/8	13/16	27/32	25/32	-
JHWST-1228	7/8	1 1/2	1 3/16	1 3/16	13/16	13/16	7/8	-
JHWST-1230	15/16	1 17/32	1 9/32	1 9/32	13/16	27/32	29/32	-
JHWST-1231	31/32	1 9/16	1 5/16	1 5/16	27/32	7/8	15/16	-
JHWST-1232	1	1 9/16	1 11/32	1 11/32	27/32	7/8	31/32	-
JHWST-1234	1 1/16	1 11/16	1 7/16	1 7/16	31/32	1	1 1/16	-
JHWST-1236	1 1/8	1 3/4	1 1/2	1 1/2	1 1/32	1 1/16	1 1/8	-
JHWST-1238	1 3/16	1 3/4	1 5/8	1 5/8	1	1 1/32	1 5/32	-
JHWST-1240	1 1/4	1 7/8	1 11/16	1 11/16	1 1/8	1 5/32	1 1/4	-
JHWST-1242	1 5/16	1 7/8	1 3/4	1 3/4	1 1/32	1 5/32	1 9/32	-
JHWST-1244	1 3/8	2 1/16	1 13/16	1 13/16	1	1 5/16	1 11/32	-
JHWST-1246	1 7/16	2 1/4	1 15/16	1 15/16	1 1/32	1 1/2	1 1/8	-
JHWST-1248	1 1/2	2 1/4	2	2	1 1/16	1 1/2	1 1/8	-

Fed. Spec: ANSI B107.110

JHWST-1220

JHWST-1212



JHWWSS-15RC

15 Piece 1/2" Drive Shallow 12-Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWST-1212	3/8	JHWST-1222	11/16	JHWST-1232	1
JHWST-1214	7/16	JHWST-1224	3/4	JHWST-1234	1 1/16
JHWST-1216	1/2	JHWST-1226	13/16	JHWST-1236	1 1/8
JHWST-1218	9/16	JHWST-1228	7/8	JHWST-1238	1 3/16
JHWST-1220	5/8	JHWST-1230	15/16	JHWST-1240	1 1/4

JHWWSS-23RC

23 Piece 1/2" Drive Shallow 12-Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWST-1212	3/8	JHWST-1221	21/32	JHWST-1230	15/16	JHWST-1240	1 1/4
JHWST-1214	7/16	JHWST-1222	11/16	JHWST-1231	31/32	JHWST-1242	1 5/16
JHWST-1216	1/2	JHWST-1224	3/4	JHWST-1232	1	JHWST-1244	1 3/8
JHWST-1218	9/16	JHWST-1225	25/32	JHWST-1234	1 1/16	JHWST-1246	1 7/16
JHWST-1219	19/32	JHWST-1226	13/16	JHWST-1236	1 1/8	JHWST-1248	1 1/2
JHWST-1220	5/8	JHWST-1228	7/8	JHWST-1238	1 3/16		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

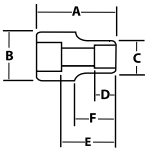
Made in U.S.A.

JHWWSS-15RC

JHWWSS-23RC

WARNING

JHWST-620 JHWST-612



1/2" DRIVE SHALLOW SOCKETS, 6 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWST-612	3/8	1 1/2	29/32	19/32	5/16	7/8	11/32	23/32
JHWST-614	7/16	1 1/2	29/32	21/32	3/8	7/8	13/32	23/32
JHWST-616	1/2	1 1/2	29/32	3/4	3/8	7/8	15/32	23/32
JHWST-618	9/16	1 1/2	29/32	13/16	3/8	7/8	15/32	23/32
JHWST-619	19/32	1 1/2	29/32	7/8	3/8	7/8	15/32	23/32
JHWST-620	5/8	1 1/2	29/32	29/32	9/16	7/8	15/32	-
JHWST-622	11/16	1 1/2	31/32	31/32	13/16	27/32	5/8	-
JHWST-624	3/4	1 1/2	1 1/32	1 1/32	13/16	27/32	23/32	-
JHWST-625	25/32	1 1/2	1 1/16	1 1/16	13/16	27/32	3/4	-
JHWST-626	13/16	1 1/2	1 1/8	1 1/8	13/16	27/32	25/32	-
JHWST-628	7/8	1 1/2	1 3/16	1 3/16	13/16	13/16	7/8	-
JHWST-630	15/16	1 17/32	1 9/32	1 9/32	13/16	27/32	29/32	-
JHWST-632	1	1 9/16	1 11/32	1 11/32	27/32	7/8	31/32	-
JHWST-634	1 1/16	1 11/16	1 7/16	1 7/16	31/32	1	1 1/16	-
JHWST-636	1 1/8	1 3/4	1 1/2	1 1/2	1 1/32	1 1/16	1 1/8	-
JHWST-640	1 1/4	1 7/8	1 11/16	1 11/16	1 1/8	1 5/32	1 1/4	-

Fed. Spec: ANSI B107.1

JHWWSS-14HRC

14 Piece 1/2" Drive Shallow 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWST-612	3/8	JHWST-622	11/16	JHWST-632	1
JHWST-614	7/16	JHWST-624	3/4	JHWST-634	1 1/16
JHWST-616	1/2	JHWST-626	13/16	JHWST-636	1 1/8
JHWST-618	9/16	JHWST-628	7/8	JHWST-640	1 1/4
JHWST-620	5/8	JHWST-630	15/16		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners

Made in U.S.A.

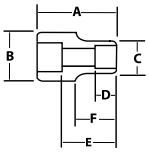
JHWWSS-14HRC

1/2" DRIVE CROWFOOT WRENCH, OPEN END SAE

Satin Chrome Finish, SAE

Product Code	Size (Inches)	A Outside Diameter (Inches)	C Center to Center (Inches)	E Head Depth (Inches)	F Total Depth (Inches)
JHWSCOE30	15/16"	1 27/32	1 15/32	11/32	5/8
JHWSCOE32	1"	1 31/32	1 11/16	23/64	5/8
JHWSCOE34	1 1/16"	2 3/32	1 3/4	3/8	5/8
JHWSCOE36	1 1/8"	2 7/32	1 3/4	3/8	5/8
JHWSCOE38	1 3/16"	2 11/32	1 3/4	13/32	5/8
JHWSCOE40	1 1/4"	2 15/32	2	13/32	5/8
JHWSCOE42	1 5/16"	2 19/32	2	7/16	5/8
JHWSCOE44	1 3/8"	2 23/32	2	7/16	5/8
JHWSCOE46	1 7/16"	2 27/32	2	7/16	5/8
JHWSCOE48	1 1/2"	2 31/32	2	15/32	5/8
JHWSCOE50	1 9/16"	2 31/32	1 31/32	15/32	5/8
JHWSCOE52	1 5/8"	3 7/32	1 31/32	1/2	5/8
JHWSCOE54	1 11/16"	3 1/3	2 3/16	1/2	5/8
JHWSCOE56	1 3/4"	3 15/32	2 3/16	17/32	5/8
JHWSCOE58	1 13/16"	3 19/32	2 3/16	17/32	5/8
JHWSCOE60	1 7/8"	3 23/32	2 3/16	9/16	5/8
JHWSCOE64	2"	3 31/32	2 7/32	9/16	5/8
JHWSCOE68	2 1/8"	3 31/32	2 7/32	37/64	5/8
JHWSCOE72	2 1/4"	3 31/32	2 13/32	37/64	5/8
JHWSCOE76	2 3/8"	4 3/8	2 31/64	19/32	5/8
JHWSCOE78	2 7/16"	4 3/8	2 7/16	19/32	5/8
JHWSCOE80	2 1/2"	4 3/8	2 13/32	19/32	5/8

JHWSCOE48



JHWWSSCOE-7

7 Piece 1/2" Drive Crowfoot Wrenches on Clip Rails, SAE

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWSCOE30	15/16"	JHWSCOE36	1 1/8"	JHWSCOE48	1 1/2"
JHWSCOE32	1"	JHWSCOE40	1 1/4"		
JHWSCOE34	1 1/16"	JHWSCOE46	1 7/16"		

Features

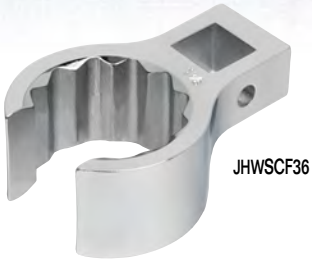
- Crowfoot wrenches are professional quality, made of high grade steel
- Featuring an open end with a continuous arc for constant contact with the fastener for greater turning power without deforming the fastener

Made in U.S.A.

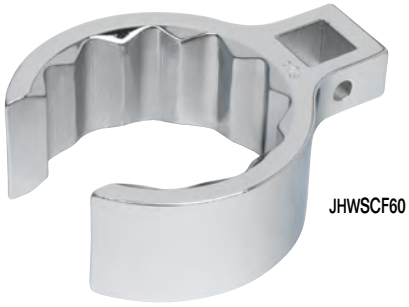
JHWWSSCOE-7

WARNING

1/2" DRIVE CROWFOOT WRENCH, FLARE NUT, 12 POINT



JHWSCF36



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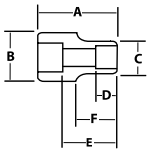


Satin Chrome Finish, SAE

Product Code	Size (Inches)	A Diameter of Head	B Thickness of Head	C Width of Slot	D Length of Centers
JHWSCF36	1 1/8	1 5/8	7/8	27/32	1 5/32
JHWSCF38	1 3/16	1 11/16	7/8	27/32	1 3/16
JHWSCF40	1 1/4	1 25/32	7/8	15/16	1 15/64
JHWSCF42	1 5/16	1 27/32	7/8	31/32	1 17/64
JHWSCF44	1 3/8	1 15/16	15/16	1 1/16	1 5/16
JHWSCF46	1 7/16	2	15/16	1 1/16	1 11/32
JHWSCF48	1 1/2	2 1/16	15/16	1 1/8	1 3/8
JHWSCF50	1 9/16	2 5/32	15/16	1 5/32	1 27/64
JHWSCF52	1 5/8	2 7/32	15/16	1 7/32	1 29/64
JHWSCF54	1 11/16	2 5/16	1	1 5/16	1 33/64
JHWSCF56	1 3/4	2 3/8	1	1 5/16	1 35/64
JHWSCF58	1 13/16	2 15/32	1	1 11/32	1 19/32
JHWSCF60	1 7/8	2 9/16	1 1/16	1 3/8	1 41/64
JHWSCF62	1 15/16	2 1/2	1 1/16	1 7/16	1 43/64
JHWSCF64	2	2 23/32	1 1/16	1 9/16	1 23/32

Fed. Spec: ASME B107.21 Type 1 Class 1

JHWWSSCF-7 7 Piece 12 Point Crowfoot Wrench on Clip Rail
Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWSCF36	1 1/8	JHWSCF42	1 5/16	JHWSCF46	1 7/16
JHWSCF38	1 3/16	JHWSCF44	1 3/8	JHWSCF48	1 1/2
JHWSCF40	1 1/4				

JHWWSSCF-15 15 Piece 12 Point Crowfoot Wrench on Clip Rail
Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWSCF36	1 1/8	JHWSCF44	1 3/8	JHWSCF52	1 5/8	JHWSCF60	1 7/8
JHWSCF38	1 3/16	JHWSCF46	1 7/16	JHWSCF54	1 11/16	JHWSCF62	1 15/16
JHWSCF40	1 1/4	JHWSCF48	1 1/2	JHWSCF56	1 3/4	JHWSCF64	2
JHWSCF42	1 5/16	JHWSCF50	1 9/16	JHWSCF58	1 13/16		

Features

- All tools are professional quality, made of high grade steel
- High-polished chrome finish cleans easily

Made in U.S.A.

JHWWSSCF-7

JHWWSSCF-15

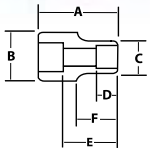
1/2" DRIVE SHALLOW SOCKETS, 8 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWST-812	3/8	1 1/2	7/8	23/32	5/16	27/32	5/16	7/8
JHWST-814	7/16	1 1/2	7/8	13/16	3/8	27/32	5/16	7/8
JHWST-816	1/2	1 1/2	29/32	29/32	13/32	27/32	11/32	-
JHWST-818	9/16	1 1/2	31/32	31/32	7/16	27/32	7/16	-
JHWST-820	5/8	1 1/2	1 1/16	1 1/16	1/2	27/32	7/16	-
JHWST-822	11/16	1 1/2	1 3/16	1 3/16	1/2	27/32	17/32	-
JHWST-824	3/4	1 1/2	1 9/32	1 9/32	9/16	13/16	23/32	-
JHWST-826	13/16	1 5/8	1 7/16	17/16	9/16	31/32	27/32	-
JHWST-828	7/8	1 3/4	1 1/2	1 1/2	5/8	1 1/16	15/16	-
JHWST-830	15/16	1 13/16	1 5/8	1 5/8	11/16	1 1/8	1 1/32	-
JHWST-832	1	1 15/16	1 11/16	1 11/16	11/16	1 1/4	1 1/32	-
JHWST-834	1 1/16	1 15/16	1 3/4	1 3/4	23/32	1 1/8	13/16	-
JHWST-836	1 1/8	2	1 13/16	1 13/16	3/4	1 3/16	13/16	-
JHWST-840	1 1/4	2	2	2	25/32	1 3/16	1	-

Fed. Spec: ANSI B107.110

JHWST-824



JHWWSS-810RC

JHWWSS-810RC 10 Piece 1/2" Drive Shallow 8 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWST-812	3/8	JHWST-820	5/8	JHWST-826	13/16
JHWST-814	7/16	JHWST-822	11/16	JHWST-828	7/8
JHWST-816	1/2	JHWST-824	3/4	JHWST-830	15/16
JHWST-818	9/16				

JHWWSS-814RC

JHWWSS-814RC 14 Piece 8 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWST-812	3/8	JHWST-820	5/8	JHWST-828	7/8	JHWST-834	1 1/16
JHWST-814	7/16	JHWST-822	11/16	JHWST-830	15/16	JHWST-836	1 1/8
JHWST-816	1/2	JHWST-824	3/4	JHWST-832	1	JHWST-840	1 1/4
JHWST-818	9/16	JHWST-826	13/16				

Made in U.S.A.

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- 8 point sockets are designed for quick engagement on 4 point fasteners

1/2" DRIVE DEEP SOCKETS, 12 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWSD-1216	1/2	3 1/4	29/32	3/4	13/32	2 19/32	15/32	2 15/32
JHWSD-1218	9/16	3 1/4	29/32	13/16	7/16	2 19/32	15/32	2 15/32
JHWSD-1220	5/8	3 1/4	29/32	29/32	15/32	2 7/16	19/32	-
JHWSD-1222	11/16	3 1/4	31/32	31/32	17/32	2 11/32	21/32	-
JHWSD-1224	3/4	3 1/4	1 1/16	1 1/16	19/32	2 5/16	23/32	-
JHWSD-1225	25/32	3 1/4	1 1/16	1 1/16	21/32	2 9/32	25/32	-
JHWSD-1226	13/16	3 1/4	1 1/8	1 1/8	21/32	2 9/32	25/32	-
JHWSD-1228	7/8	3 1/4	1 3/16	1 3/16	23/32	2 9/32	27/32	-
JHWSD-1230	15/16	3 1/4	1 9/32	1 9/32	3/4	2 9/32	29/32	-
JHWSD-1232	1	3 1/4	1 11/32	111/32	3/4	2 1/4	1	-
JHWSD-1234	1 1/16	3 1/4	1 7/16	1 7/16	3/4	2 1/4	1 1/16	
JHWSD-1236	1 1/8	3 1/4	1 1/2	1 1/2	25/32	2 1/4	1 3/32	-

Fed. Spec: ANSI B107.110

JHWSD-1224 JHWSD-1216

JHWWSSD-11RC

JHWWSSD-11RC 11 Piece 1/2" Drive Deep 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWSD-1216	1/2	JHWSD-1224	3/4	JHWSD-1232	1
JHWSD-1218	9/16	JHWSD-1226	13/16	JHWSD-1234	1 1/16
JHWSD-1220	5/8	JHWSD-1228	7/8	JHWSD-1236	1 1/8
JHWSD-1222	11/16	JHWSD-1230	15/16		

Made in U.S.A.

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

WARNING

JHWSD-624 JHWSD-616

1/2" DRIVE DEEP SOCKETS, 6 POINT, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWSD-616	1/2	3 1/4	29/32	3/4	13/32	2 19/32	15/32	2 15/32
JHWSD-618	9/16	3 1/4	29/32	13/16	7/16	2 19/32	15/32	2 15/32
JHWSD-620	5/8	3 1/4	29/32	29/32	15/32	2 7/16	19/32	-
JHWSD-622	11/16	3 1/4	31/32	31/32	17/32	2 11/32	21/32	-
JHWSD-624	3/4	3 1/4	1 1/16	1 1/16	19/32	2 5/16	23/32	-
JHWSD-626	13/16	3 1/4	1 1/8	1 1/8	21/32	2 9/32	25/32	-
JHWSD-628	7/8	3 1/4	1 3/16	1 3/16	23/32	2 9/32	27/32	-
JHWSD-630	15/16	3 1/4	1 9/32	1 9/32	3/4	2 9/32	29/32	-
JHWSD-632	1	3 1/4	1 11/32	1 11/32	3/4	2 1/4	1	-
JHWSD-634	1 1/16	3 1/4	1 7/16	1 7/16	25/32	2 1/4	1 1/32	-
JHWSD-636	1 1/8	3 1/4	1 1/2	1 1/2	25/32	2 1/4	1 3/32	-

Fed. Spec: ANSI B107.110

JHWWSSD11HRC 11 Piece 1/2" Drive Deep 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWSD-616	1/2	JHWSD-624	3/4	JHWSD-632	1
JHWSD-618	9/16	JHWSD-626	13/16	JHWSD-634	1 1/16
JHWSD-620	5/8	JHWSD-628	7/8	JHWSD-636	1 1/8
JHWSD-622	11/16	JHWSD-630	15/16		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners

Made in U.S.A.

JHWWSSD11HRC

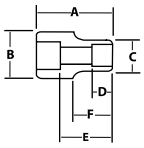
1/2" DRIVE SHALLOW SOCKETS, 12 POINT, METRIC

High-Polished Chrome Finish

		A	B	C	D	E		F
Product Code	Size (MM)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)
JHWSTM-1210	10	1 1/2	29/32	19/32	5/16	7/8	11/32	23/32
JHWSTM-1211	11	1 1/2	29/32	11/16	5/16	7/8	13/32	23/32
JHWSTM-1212	12	1 1/2	29/32	23/32	13/32	7/8	7/16	23/32
JHWSTM-1213	13	1 1/2	29/32	25/32	3/8	7/8	15/32	23/32
JHWSTM-1214	14	1 1/2	29/32	27/32	3/8	7/8	15/32	23/32
JHWSTM-1215	15	1 1/2	29/32	7/8	3/8	7/8	15/32	-
JHWSTM-1216	16	1 1/2	29/32	29/32	9/16	7/8	15/32	-
JHWSTM-1217	17	1 1/2	31/32	31/32	9/16	7/8	15/32	-
JHWSTM-1218	18	1 1/2	1	1	13/16	27/32	15/32	-
JHWSTM-1219	19	1 1/2	1 1/32	1 1/32	13/16	27/32	23/32	-
JHWSTM-1220	20	1 1/2	1 1/16	1 1/16	13/16	27/32	23/32	-
JHWSTM-1221	21	1 1/2	1 1/8	1 1/8	13/16	27/32	3/4	-
JHWSTM-1222	22	1 1/2	1 3/16	1 3/16	13/16	27/32	25/32	-
JHWSTM-1223	23	1 1/2	1 1/4	1 1/4	25/32	13/16	27/32	-
JHWSTM-1224	24	1 17/32	1 9/32	1 9/32	13/16	27/32	7/8	-
JHWSTM-1225	25	1 9/16	1 5/16	1 5/16	13/16	7/8	15/16	-
JHWSTM-1226	26	1 5/8	1 3/8	1 3/8	29/32	15/16	31/32	-
JHWSTM-1227	27	1 23/32	1 7/16	1 7/16	31/32	1	1	-
JHWSTM-1228	28	1 3/4	1 1/2	1 1/2	1	1 1/16	1 1/32	-
JHWSTM-1229	29	1 3/4	1 9/16	1 9/16	1 1/32	1 1/16	1 1/16	-
JHWSTM-1230	30	1 3/4	1 5/8	1 5/8	1 1/32	1 1/32	1 3/32	-
JHWSTM-1232	32	1 7/8	1 11/16	1 11/16	1 1/8	1 5/32	1 3/16	-
JHWSTM-1234	34	2 1/16	1 3/4	1 3/4	7/8	1 7/16	1	-
JHWSTM-1236	36	2 1/16	1 15/16	1 15/16	7/8	1 7/16	1 13/32	-

Fed. Spec: ANSI B107.110

JHWSTM-1229 JHWSTM-1212



JHWMSS-15RC

15 Piece 1/2" Drive Shallow 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWSTM-1210	10	JHWSTM-1214	14	JHWSTM-1218	18	JHWSTM-1222	22
JHWSTM-1211	11	JHWSTM-1215	15	JHWSTM-1219	19	JHWSTM-1223	23
JHWSTM-1212	12	JHWSTM-1216	16	JHWSTM-1220	20	JHWSTM-1224	24
JHWSTM-1213	13	JHWSTM-1217	17	JHWSTM-1221	21		

JHWMSS-15RC

JHWMSS-15SR

15 Piece 1/2" Drive Shallow 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWSTM-1210	10	JHWSTM-1217	17	JHWSTM-1222	22	JHWSTM-1227	27
JHWSTM-1213	13	JHWSTM-1218	18	JHWSTM-1223	23	JHWSTM-1230	30
JHWSTM-1214	14	JHWSTM-1219	19	JHWSTM-1224	24	JHWSTM-1232	32
JHWSTM-1215	15	JHWSTM-1220	20	JHWSTM-1226	26		

JHWMSS-15SRC

JHWMSS-24RC

24 Piece 1/2" Drive Shallow 12 Point Socket Seton Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWSTM-1210	10	JHWSTM-1216	16	JHWSTM-1222	22	JHWSTM-1228	28
JHWSTM-1211	11	JHWSTM-1217	17	JHWSTM-1223	23	JHWSTM-1229	29
JHWSTM-1212	12	JHWSTM-1218	18	JHWSTM-1224	24	JHWSTM-1230	30
JHWSTM-1213	13	JHWSTM-1219	19	JHWSTM-1225	25	JHWSTM-1232	32
JHWSTM-1214	14	JHWSTM-1220	20	JHWSTM-1226	26	JHWSTM-1234	34
JHWSTM-1215	15	JHWSTM-1221	21	JHWSTM-1227	27	JHWSTM-1236	36

Features

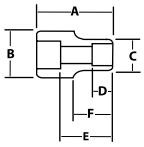
- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

Made in U.S.A.

JHWMSS-24RC

WARNING

JHW32515 JHW32509



1/2" DRIVE SHALLOW SOCKETS, 6 POINT, METRIC

High-Polished Chrome Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW32509	9	1 1/2	7/8	9/16	9/16	11/16	5/16	23/32
JHW32510	10	1 1/2	7/8	5/8	1/2	27/32	3/8	23/32
JHW32511	11	1 1/2	7/8	21/32	1/2	7/8	13/32	23/32
JHW32512	12	1 1/2	7/8	23/32	1/2	7/8	7/16	23/32
JHW32513	13	1 1/2	7/8	3/4	9/16	27/32	15/32	23/32
JHW32514	14	1 1/2	7/8	13/16	9/16	13/16	17/32	23/32
JHW32515	15	1 1/2	7/8	7/8	17/32	13/16	9/16	-
JHW32516	16	1 1/2	29/32	29/32	17/32	27/32	19/32	-
JHW32517	17	1 1/2	15/16	15/16	17/32	27/32	21/32	-
JHW32518	18	1 1/2	1	1	3/4	13/16	11/16	-
JHW32519	19	1 1/2	1 1/16	1 1/16	3/4	7/8	45/64	-
JHW32520	20	1 1/2	1 3/32	1 3/32	25/32	15/16	47/64	-
JHW32521	21	1 1/2	1 1/8	1 1/8	25/32	15/16	49/64	-
JHW32522	22	1 5/8	1 3/16	1 3/16	7/8	1 1/32	25/32	-
JHW32523	23	1 5/8	1 7/32	1 7/32	7/8	1 1/32	13/16	-
JHW32524	24	1 5/8	1 1/4	1 1/4	7/8	1 3/32	53/64	-
JHW32525	25	1 5/8	1 5/16	1 5/16	7/8	1 3/32	55/64	-
JHW32526	26	1 3/4	1 5/16	1 5/16	15/16	1 3/16	57/64	-
JHW32527	27	1 3/4	1 7/16	1 7/16	15/16	1 3/16	29/32	-
JHW32528	28	1 3/4	1 7/16	1 7/16	31/32	1 9/32	15/16	-
JHW32529	29	1 3/4	1 1/2	1 1/2	31/32	1 9/32	31/32	-
JHW32530	30	1 3/4	1 9/16	1 9/16	31/32	1 11/32	63/64	-
JHW32532	32	1 31/32	1 11/16	1 31/32	1 1/8	1 1/2	1 1/32	-
JHW32534	34	1 47/64	1 1/2	1 49/64	31/32	1 11/32	1 1/64	-
JHW32536	36	2 1/16	1 15/16	1 15/16	7/8	1 7/16	1 13/32	-

Fed. Spec: ANSI B107.110

JHW32943

JHW32943
16 Piece 1/2" Drive Shallow 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW32509	9	JHW32513	13	JHW32517	17	JHW32521	21
JHW32510	10	JHW32514	14	JHW32518	18	JHW32522	22
JHW32511	11	JHW32515	15	JHW32519	19	JHW32523	23
JHW32512	12	JHW32516	16	JHW32520	20	JHW32524	24

JHW32941

JHW32941
24 piece 1/2" Drive Shallow 6 Point Socket Set on Clip Rails

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW32509	9	JHW32515	15	JHW32521	21	JHW32527	27
JHW32510	10	JHW32516	16	JHW32522	22	JHW32528	28
JHW32511	11	JHW32517	17	JHW32523	23	JHW32529	29
JHW32512	12	JHW32518	18	JHW32524	24	JHW32530	30
JHW32513	13	JHW32519	19	JHW32525	25	JHW32532	32
JHW32514	14	JHW32520	20	JHW32526	26	JHW32536	36

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 point fasteners

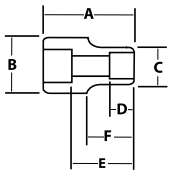
1/2" DRIVE DEEP SOCKETS, 12 POINT, METRIC

High-Polished Chrome Finish

		A	B	C	D	E		F
Product Code	Size (MM)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)
JHWSMD-1213	13	3 1/4	29/32	25/32	13/32	2 15/32	15/32	2 19/32
JHWSMD-1214	14	3 1/4	29/32	27/32	13/32	2 15/32	15/32	2 19/32
JHWSMD-1215	15	3 1/4	29/32	7/8	13/32	2 15/32	15/32	-
JHWSMD-1216	16	3 1/4	29/32	29/32	15/32	2 7/16	17/32	-
JHWSMD-1217	17	3 1/4	31/32	31/32	1/2	2 11/32	5/8	-
JHWSMD-1218	18	3 1/4	1	1	17/32	2 11/32	21/32	-
JHWSMD-1219	19	3 1/4	1 1/32	1 1/32	9/16	2 5/16	11/16	-
JHWSMD-1221	21	3 1/4	1 1/8	1 1/8	21/32	2 5/16	3/4	-
JHWSMD-1222	22	3 1/4	1 3/16	1 3/16	23/32	2 9/32	13/16	-
JHWSMD-1224	24	3 1/4	1 9/32	1 9/32	3/4	2 9/32	7/8	-
JHWSMD-1227	27	3 1/4	1 7/16	1 7/16	3/4	2 1/4	1	-
JHWSMD-1230	30	3 1/4	1 5/8	1 5/8	13/16	2 1/4	1 3/32	-

Fed. Spec: ANSI B107.110

JHWSMD-1218



JHWMSSD-12RC

12 Piece 1/2" Drive Deep 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWSMD-1213	13	JHWSMD-1217	17	JHWSMD-1222	22
JHWSMD-1214	14	JHWSMD-1218	18	JHWSMD-1224	24
JHWSMD-1215	15	JHWSMD-1219	19	JHWSMD-1227	27
JHWSMD-1216	16	JHWSMD-1221	21	JHWSMD-1230	30

JHWMSSD-12RC

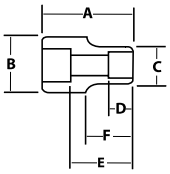
Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

Made in U.S.A.

WARNING

JHW32717 JHW32710



1/2" DRIVE DEEP SOCKETS, 6 POINT, METRIC

High-Polished Chrome Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW32709	9	3 1/4	29/32	19/32	5/16	2 15/32	11/32	2 19/32
JHW32710	10	3 1/4	29/32	19/32	5/16	2 15/32	11/32	2 19/32
JHW32711	11	3 1/4	29/32	11/16	5/16	2 15/32	13/32	2 19/32
JHW32712	12	3 1/4	29/32	23/32	13/32	2 15/32	7/16	2 19/32
JHW32713	13	3 1/4	29/32	25/32	3/8	2 15/32	15/32	2 19/32
JHW32714	14	3 1/4	29/32	27/32	3/8	2 15/32	15/32	2 19/32
JHW32715	15	3 1/4	29/32	7/8	3/8	2 11/32	15/32	-
JHW32716	16	3 1/4	29/32	29/32	9/16	2 11/32	15/32	-
JHW32717	17	3 1/4	31/32	31/32	9/16	2 11/32	15/32	-
JHW32718	18	3 1/4	1	1	13/16	2 11/32	15/32	-
JHW32719	19	3 1/4	1 1/32	1 1/32	13/16	2 5/16	23/32	-
JHW32720	20	3 1/4	1 1/16	1 1/16	13/16	2 5/16	23/32	-
JHW32721	21	3 1/4	1 1/8	1 1/8	13/16	2 5/16	3/4	-
JHW32722	22	3 1/4	1 3/16	1 3/16	13/16	2 5/16	25/32	-
JHW32723	23	3 1/4	1 1/4	1 1/4	25/32	2 5/16	27/32	-
JHW32724	24	3 1/4	1 9/32	1 9/32	13/16	2 5/16	7/8	-
JHW32725	25	3 1/4	1 5/16	1 5/16	13/16	2 1/4	15/16	-
JHW32726	26	3 1/4	1 3/8	1 3/8	29/32	2 1/4	31/32	-
JHW32727	27	3 1/4	1 7/16	1 7/16	31/32	2 1/4	1	-
JHW32728	28	3 1/4	1 1/2	1 1/2	1	2 1/4	1 1/32	-
JHW32729	29	3 1/4	1 9/16	1 9/16	1 1/32	2 1/4	1 1/16	-
JHW32730	30	3 1/4	1 5/8	1 5/8	1 1/32	2 1/4	1 3/32	-
JHW32732	32	3 1/4	1 11/16	1 11/16	1 1/8	2 1/4	1 3/16	-
JHW32734	34	3 1/4	1 3/4	1 3/4	7/8	2 1/4	1	-
JHW32736	36	3 1/4	1 15/16	1 15/16	7/8	2 1/4	1 13/32	-

Fed. Spec: ANSI B107.110

JHW32947

JHW32947 16 Piece 1/2" Drive Deep 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW32709	9	JHW32713	13	JHW32717	17	JHW32721	21
JHW32710	10	JHW32714	14	JHW32718	18	JHW32722	22
JHW32711	11	JHW32715	15	JHW32719	19	JHW32723	23
JHW32712	12	JHW32716	16	JHW32720	20	JHW32724	24

JHW32945

JHW32945 24 Piece 1/2" Drive Deep 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW32709	9	JHW32715	15	JHW32721	21	JHW32727	27
JHW32710	10	JHW32716	16	JHW32722	22	JHW32728	28
JHW32711	11	JHW32717	17	JHW32723	23	JHW32729	29
JHW32712	12	JHW32718	18	JHW32724	24	JHW32730	30
JHW32713	13	JHW32719	19	JHW32725	25	JHW32732	32
JHW32714	14	JHW32720	20	JHW32726	26	JHW32736	36

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

1/2" DRIVE TURBOSOCKET® SALVAGE/ DAMAGED FASTENER SOCKETS

Black Industrial Finish, Metric and SAE

		A	B	C	D	E		F
Product Code	Size (Inches)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)
JHWTS50750	3/4	1 21/32	1 1/16	1 1/16	23/32	1	3/4	-
JHWTS50812	13/16	1 21/32	1 1/8	1 1/8	23/32	1	13/16	-
JHWTS50875	7/8	1 21/32	1 3/16	1 3/16	23/32	1	7/8	-
JHWTS50937	15/16	1 21/32	1 5/16	1 5/16	23/32	1	15/16	-
JHWTS50100	1	1 21/32	1 11/32	1 11/32	23/32	1	1	-

Product Code	Size (MM)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)
JHWTS51551	14	1 21/32	29/32	27/32	1/2	1	9/16	29/32
JHWTS51591	15	1 21/32	29/32	29/32	1/2	1	19/32	-
JHWTS51625	16	1 21/32	31/32	31/32	1/2	23/32	5/8	-
JHWTS51669	17	1 21/32	1	1	21/32	23/32	11/16	-
JHWTS51709	18	1 21/32	1 1/32	1 1/32	21/32	23/32	23/32	-
JHWTS51750	19	1 21/32	1 1/16	1 1/16	23/32	1	3/4	-
JHWTS51827	21	1 21/32	1 3/16	1 3/16	21/32	1	27/32	-

JHWTSFS5005 5 Piece TURBOSOCKET® Salvage Socket Set on Clip Rail, SAE

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHWTS50750	3/4	JHWTS50937	15/16
JHWTS50812	13/16	JHWTS50100	1
JHWTS50875	7/8		

JHWTSMS5107 7 Piece TURBOSOCKET® Salvage Socket Set on Clip Rail, Metric

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)
JHWTS51551	14	JHWTS51709	18
JHWTS51591	15	JHWTS51750	19 (3/4")
JHWTS51625	16 (5/8")	JHWTS51827	21
JHWTS51669	17		

Features

- Quickly and easily remove damaged or rounded nuts and bolts
- Place socket on fastener and turn with ratchet, breaker bar or T-handle
- Grip on fastener tightens as more torque is applied
- No hammering is required to install socket over fastener
- Use on all types of standard nuts and bolts as well as studs, pipe nipples, and corroded auto and marine fasteners
- May be used for "best fit" on metric and fractional fasteners
- May be used with air or electric impact wrench for extra speed and turning power

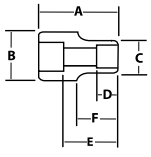
Made in U.S.A.

JHWTS50750

JHWTS51551

JHWTSFS5005

JHWTSM5107



WARNING

JHWSA-16LA

JHWWSSS-6LRC

1/2" DRIVE LONG HEX BIT SOCKETS, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Replacement Bit Product Code
JHWSA-8LA	1/4	1 1/2	29/32	4 1/2	JHWBITH0806
JHWSA-10LA	5/16	1 1/2	29/32	4 1/2	JHWBITH1006
JHWSA-12LA	3/8	1 1/2	29/32	4 1/2	JHWBITH1204
JHWSA-16LA	1/2	1 1/2	31/32	4 1/2	JHWBITH1602
JHWSA-18LA	9/16	1 9/16	1 1/16	4 1/2	JHWBITH1802
JHWSA-20LA	5/8	1 25/32	1 1/4	4 1/2	JHWBITH2002

JHWWSSS-6LRC 6 Piece Long Hex Bit Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHWSA-8LA	1/4	JHWSA-16LA	1/2
JHWSA-10LA	5/16	JHWSA-18LA	9/16
JHWSA-12LA	3/8	JHWSA-20LA	5/8

Features

- High-polished chrome finish socket cleans easily
- Two piece design allows bits to be replaced easily

Made in U.S.A.

JHWSA-16A

JHWWSSS-6RC

1/2" DRIVE STANDARD LENGTH HEX BIT SOCKETS, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Replacement Bit Product Code
JHWSA-8A	1/4	1 1/2	29/32	2 1/4	JHWBITH0805
JHWSA-10A	5/16	1 1/2	29/32	2 1/4	JHWBITH1005
JHWSA-12A	3/8	1 1/2	29/32	2 1/4	JHWBITH1203
JHWSA-16A	1/2	1 1/2	31/32	2 1/4	JHWBITH1601
JHWSA-18A	9/16	1 9/16	1 1/16	2 1/4	JHWBITH1801
JHWSA-20A	5/8	1 25/32	1 1/4	2 1/4	JHWBITH2001

JHWWSSS-6RC 6 Piece Hex Bit Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHWSA-8A	1/4	JHWSA-16A	1/2
JHWSA-10A	5/16	JHWSA-18A	9/16
JHWSA-12A	3/8	JHWSA-20A	5/8

Features

- High-polished chrome finish socket cleans easily
- Two piece design allows bits to be replaced easily

Made in U.S.A.

JHW35274

JHW32904

1/2" DRIVE STANDARD LENGTH HEX BIT SOCKETS, METRIC

High-Polished Chrome Finish

Product Code	Size (MM)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Bit Length (Inches)
JHW35274	8	1 19/32	29/32	2 13/32	27/32
JHW35275	10	1 19/32	29/32	2 7/16	27/32
JHW35276	12	1 19/32	29/32	2 7/16	27/32
JHW35277	14	1 19/32	1	2 7/16	27/32
JHW35278	17	1 19/32	1 3/32	2 7/16	27/32
JHW35279	19	1 19/32	1 3/16	2 7/16	27/32

JHW32904 6 Piece Hex Bit Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)
JHW35274	8	JHW35277	14
JHW35275	10	JHW35278	17
JHW35276	12	JHW35279	19

Features

- High-polished chrome finish socket cleans easily

1/2" DRIVE LONG LENGTH HEX BIT SOCKETS, METRIC

High-Polished Chrome Finish

Product Code	Size (MM)	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)
JHW35294	8	1 ½	29/32	5 ½
JHW35295	10	1 ½	29/32	5 ½
JHW35296	12	1 ½	29/32	5 ½
JHW35297	14	1 ½	1	5 ½
JHW35298	17	1 ½	1 3/32	5 ½
JHW35299	19	1 ½	1 3/16	5 ½

JHW32953 6 Piece Hex Bit Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)
JHW35294	8	JHW35297	14
JHW35295	10	JHW35298	17
JHW35296	12	JHW35299	19

Features

- High-polished chrome finish socket cleans easily

JHW35294

JHW32953

1/2" DRIVE TORX® BIT SOCKETS

High-Polished Chrome Finish

Product Code	Torx® Size	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Bit Length (Inches)
JHW35283	T40	1 19/32	29/32	2 7/16	7/8
JHW35284	T45	1 19/32	29/32	2 7/16	7/8
JHW35285	T50	1 19/32	29/32	2 7/16	7/8
JHW35286	T55	1 19/32	29/32	2 7/16	7/8
JHW35287	T60	1 19/32	29/32	2 7/16	7/8

JHW32908 5 Piece Torx® Bit Socket Set on Clip Rail

Contents Include:

Product Code	Torx® Size	Product Code	Torx® Size
JHW35283	T40	JHW35286	T55
JHW35284	T45	JHW35287	T60
JHW35285	T50		

Features

- High-polished chrome finish socket cleans easily

JHW35283

JHW32908

1/2" DRIVE SCREWDRIVER BIT SOCKETS

High-Polished Chrome Finish, Phillips® and Slotted

Product Code	Size (Inches) / Point Size	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Replacement Bit Product Code
Slotted Bits:					
JHWSA-10A-3S	23/64 x .061	1 ½	29/32	2 9/32	JHWBITHS03
JHWSA-12A-4S	27/64 x .075	1 ½	29/32	2 ¼	JHWBITHS04
Phillips® Bits:					
JHWSA-10A-3P	#3	1 ½	29/32	2 ¼	JHWBITPH0302
JHWSA-12A-4P	#4	1 ½	29/32	2 ¼	JHWBITPH0401

JHWWSSSP-4RC 4 Piece Screwdriver Bit Socket Set on Clip Rail

Contents Include:

Product Code	Tip Size	Product Code	Tip Size
JHWSA-10A-3S	23/64 x.061	JHWSA-10A-3P	3
JHWSA-12A-4S	27/64 x.075	JHWSA-12A-4P	4

Features

- High-polished chrome finish socket cleans easily
- Two piece design allows bits to be replaced easily

Made in U.S.A.

JHWSA-10A-3P

JHWSA-10A-3S

JHWWSSSP-4RC

⚠WARNING

JHW35251

JHW32906

1/2" DRIVE PHILLIPS® SCREWDRIVER BIT SOCKETS

High-Polished Chrome Finish

Product Code	Tip Size	Socket Length (Inches)	Socket Outside Diameter (Inches)	Overall Length (Inches)	Bit Length (Inches)
JHW35251	#2	1 19/32	29/32	2 7/16	7/8
JHW35252	#3	1 19/32	29/32	2 7/16	7/8
JHW35253	#4	1 19/32	29/32	2 7/16	7/8

JHW32906 3 Piece Phillips® Screwdriver Bit Socket Set on Clip Rail
Contents Include:

Product Code	Tip Size
JHW35251	#2
JHW35252	#3
JHW35253	#4

Features

- High-polished chrome finish socket cleans easily

JHWSB-30

1/2" DRIVE DRAG LINK SOCKETS

High-Polished Chrome Finish

Product Code	Overall Length (Inches)	Tip Thickness (Inches)	Tip Width (Inches)
JHWSB-30	1 5/8	5/32	15/16
JHWSB-40	1 11/16	5/32	1 3/16

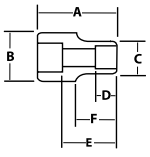
Fed. Spec: ANSI B107.1

Features

- Ideal for drag links on trucks and heavy equipment, as well as large screws

Made in U.S.A.

JHWSB-526



1/2" DRIVE 5 POINT PENTA-SOCKET

Black Industrial Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWSB-526	51/64	1 1/4	1 1/8	1 1/8	7/16	1/2	23/32	-

Features

- 5 point Penta-Socket services 5 point nuts found on tamper-resistant Buffalo covers used by gas, electric, and some water companies to protect shutoff gates

Made in U.S.A.

JHW4A-620 with Retaining Ring 4-1XS

JHW4A-620

1/2" DRIVE HEX DRIVERS

High-Polished Chrome Finish

Product Code	Size	Overall Length (Inches)	Product Code Bits	Optional Ret Ring
JHW4A-620	5/8	3 1/2	JHW4A-620-2	4-1XS
JHW4A-622	11/16	3 1/2	JHW4A-622-2	4-1XS
JHW4A-624	3/4	3 1/2	JHW4A-624-2	4-1XS
JHW4A-628	7/8	3 1/2	JHW4A-628-2	4-1XS

Features

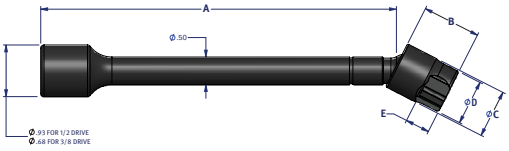
- Designed for use with pneumatic or cordless impact guns
- Optional retaining ring ensures positive attachment to anvil
- Manufactured from special alloy steel and heat treated for optimum strength and durability
- Williams® bits are designed with a precise fit and tight tolerances to prevent slippage and disengagement
- Outperforms one-piece design models – our two-piece design makes replacement economical and convenient
- Bits can be easily replaced by hand - no need to put them in a vice and punch them out with a hammer
- Optional retaining rings available for added protection

WILLIAMS

1/2" DRIVE SOCKET FLEXTENSIONS

Williams Flextension are used extensively in engine and heavy equipment manufacturing, assembly and repair. They increase productivity by featuring an integrated (non-removable) design of the drive extension and socket to allow for reliable, continuous work without concern for the socket disconnecting from the extension as could happen with hand-tool type ball retained sockets.

See page 252 for 3/8" Drive Socket Flextensions.



1/2" DRIVE SOCKET FLEXTENSIONS, SAE

Black Industrial Finish

		A				B	C	D	E
Product Code	Drive	Shank Length	Tension	Socket Points	Socket	Socket Length	Socket Diameter	Nose Diameter	Hex Depth
JHWISSXT312	½"	3.02"/76.7MM	Yes	6	⅜	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISSX312	½"	3.02"/76.7MM	No	6	⅜	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISSXT412	½"	4.09"/103.9MM	Yes	6	⅜	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISSX412	½"	4.09"/103.9MM	No	6	⅜	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISSX612	½"	6.57"/166.9MM	No	6	⅜	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISSXT912	½"	9.57"/243.1MM	Yes	6	⅜	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISSX912	½"	9.57"/243.1MM	No	6	⅜	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISSXT314	½"	3.02"/76.7MM	Yes	6	7/16	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.3"/7.6MM
JHWISSX314	½"	3.02"/76.7MM	No	6	7/16	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.3"/7.6MM
JHWISSXT414	½"	4.09"/103.9MM	Yes	6	7/16	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.3"/7.6MM
JHWISSX414	½"	4.09"/103.9MM	No	6	7/16	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.3"/7.6MM
JHWISSXT614	½"	6.57"/166.9MM	Yes	6	7/16	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.3"/7.6MM
JHWISSX614	½"	6.57"/166.9MM	No	6	7/16	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.3"/7.6MM
JHWISSXT914	½"	9.57"/243.1MM	Yes	6	7/16	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.3"/7.6MM
JHWISSX914	½"	9.57"/243.1MM	No	6	7/16	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.3"/7.6MM
JHWISSXT316	½"	3.02"/76.7MM	Yes	6	½	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSX316	½"	3.02"/76.7MM	No	6	½	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSXT416	½"	4.09"/103.9MM	Yes	6	½	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSX416	½"	4.09"/103.9MM	No	6	½	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSXT616	½"	6.57"/166.9MM	Yes	6	½	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSX616	½"	6.57"/166.9MM	No	6	½	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSXT916	½"	9.57"/243.1MM	Yes	6	½	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSX916	½"	9.57"/243.1MM	No	6	½	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSXT418	½"	4.09"/103.9MM	Yes	6	9/16	1.06"/26.9MM	0.90"/22.7MM	0.82"/20.8MM	0.44"/11.2MM
JHWISSX418	½"	4.09"/103.9MM	No	6	9/16	1.06"/26.9MM	0.90"/22.7MM	0.82"/20.8MM	0.44"/11.2MM
JHWSPSXTL618	½"	6.57"/166.9MM	Yes	6	9/16	0.78"/19.8MM	0.90"/22.7MM	0.76"/19.4MM	0.16"/4.1MM
JHWSPSXL618	½"	6.57"/166.9MM	No	6	9/16	0.78"/19.8MM	0.90"/22.7MM	0.76"/19.4MM	0.16"/4.1MM
JHWISSXT618	½"	6.57"/166.9MM	Yes	6	9/16	1.06"/26.9MM	0.90"/22.7MM	0.82"/20.8MM	0.44"/11.2MM
JHWISSX618	½"	6.57"/166.9MM	No	6	9/16	1.06"/26.9MM	0.90"/22.7MM	0.82"/20.8MM	0.44"/11.2MM
JHWISSXT918	½"	9.57"/243.1MM	Yes	6	9/16	1.06"/26.9MM	0.90"/22.7MM	0.82"/20.8MM	0.44"/11.2MM
JHWISSX918	½"	9.57"/243.1MM	No	6	9/16	1.06"/26.9MM	0.90"/22.7MM	0.82"/20.8MM	0.44"/11.2MM
JHWISSXT1218	½"	12.57"/319.3MM	Yes	6	9/16	1.06"/26.9MM	0.90"/22.7MM	0.82"/20.8MM	0.44"/11.2MM
JHWISSX1218	½"	12.57"/319.3MM	No	6	9/16	1.06"/26.9MM	0.90"/22.7MM	0.82"/20.8MM	0.44"/11.2MM
JHWISSXT320	½"	3.02"/76.7MM	Yes	6	⅝	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.44"/11.2MM
JHWISSX320	½"	3.02"/76.7MM	No	6	⅝	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.44"/11.2MM
JHWISSXT420	½"	4.09"/103.9MM	Yes	6	⅝	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.44"/11.2MM
JHWISSX420	½"	4.09"/103.9MM	No	6	⅝	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.44"/11.2MM
JHWISSXT620	½"	6.57"/166.9MM	Yes	6	⅝	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.44"/11.2MM
JHWISSX620	½"	6.57"/166.9MM	No	6	⅝	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.44"/11.2MM
ISSX620SOC75	½"	6.57"/166.9MM	No	6	⅝	0.97"/24.7MM	0.90"/22.7MM	0.90"/22.7MM	0.35"/8.9MM
JHWISSXT920	½"	9.57"/243.1MM	Yes	6	⅝	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.44"/11.2MM
JHWISSX920	½"	9.57"/243.1MM	No	6	⅝	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.44"/11.2MM
JHWISSXT324	½"	3.02"/76.7MM	Yes	6	¾	1.25"/31.8MM	1.00"/25.4MM	1.12"/28.4MM	0.56"/14.2MM
JHWISSX324	½"	3.02"/76.7MM	No	6	¾	1.25"/31.8MM	1.00"/25.4MM	1.12"/28.4MM	0.56"/14.2MM

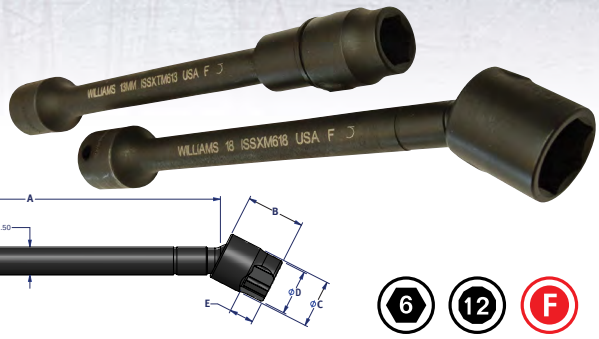
Made in U.S.A.

WARNING

1/2" DRIVE SOCKET FLEXTENSIONS

Williams Flextension are used extensively in engine and heavy equipment manufacturing, assembly and repair. They increase productivity by featuring an integrated (non-removable) design of the drive extension and socket to allow for reliable, continuous work without concern for the socket disconnecting from the extension as could happen with hand-tool type ball retained sockets.

See page 252 for 3/8" Drive Socket Flextensions.



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1/2" DRIVE SOCKET FLEXTENSIONS, SAE

Black Industrial Finish

		A				B	C	D	E
Product Code	Drive	Shank Length	Tension	Socket Points	Socket	Socket Length	Socket Diameter	Nose Diameter	Hex Depth
JHWISSXT424	½"	4.09"/103.9MM	Yes	6	¾	1.25"/31.8MM	1.00"/25.4MM	1.12"/28.4MM	0.56"/14.2MM
JHWISSX424	½"	4.09"/103.9MM	No	6	¾	1.25"/31.8MM	1.00"/25.4MM	1.12"/28.4MM	0.56"/14.2MM
JHWISSXT624	½"	6.57"/166.9MM	Yes	6	¾	1.25"/31.8MM	1.00"/25.4MM	1.12"/28.4MM	0.56"/14.2MM
JHWISSX624	½"	6.57"/166.9MM	No	6	¾	1.25"/31.8MM	1.00"/25.4MM	1.12"/28.4MM	0.56"/14.2MM
JHWISSX624MD	½"	6.57"/166.9MM	No	6	¾	0.85"/21.6MM	1.00"/25.4MM	1.12"/28.4MM	0.31"/7.9MM
JHWISDX624LD	½"	6.57"/166.9MM	No	12	¾	0.85"/21.6MM	1.00"/25.4MM	1.00"/25.4MM	0.31"/7.9MM
JHWISSXT924	½"	9.57"/243.1MM	Yes	6	¾	1.25"/31.8MM	1.00"/25.4MM	1.12"/28.4MM	0.56"/14.2MM
JHWISSX924	½"	9.57"/243.1MM	No	6	¾	1.25"/31.8MM	1.00"/25.4MM	1.12"/28.4MM	0.56"/14.2MM
JHWISSXT430	½"	4.09"/103.9MM	Yes	6	15/16	1.31"/33.3MM	1.00"/25.4MM	1.30"/33.0MM	0.62"/15.7MM
JHWISSX430	½"	4.09"/103.9MM	No	6	15/16	1.31"/33.3MM	1.00"/25.4MM	1.30"/33.0MM	0.62"/15.7MM
JHWISSXT630	½"	6.57"/166.9MM	Yes	6	15/16	1.31"/33.3MM	1.00"/25.4MM	1.30"/33.0MM	0.62"/15.7MM
JHWISSX630	½"	6.57"/166.9MM	No	6	15/16	1.31"/33.3MM	1.00"/25.4MM	1.30"/33.0MM	0.62"/15.7MM
JHWISSXT930	½"	9.57"/243.1MM	Yes	6	15/16	1.31"/33.3MM	1.00"/25.4MM	1.30"/33.0MM	0.62"/15.7MM
JHWISSX930	½"	9.57"/243.1MM	No	6	15/16	1.31"/33.3MM	1.00"/25.4MM	1.30"/33.0MM	0.62"/15.7MM
JHWISSXT1230	½"	12.57"/319.3MM	Yes	6	15/16	1.31"/33.3MM	1.00"/25.4MM	1.30"/33.0MM	0.62"/15.7MM
JHWISSX1230	½"	12.57"/319.3MM	No	6	15/16	1.31"/33.3MM	1.00"/25.4MM	1.30"/33.0MM	0.62"/15.7MM

USA
Made in U.S.A.

6 12 M

1/2" DRIVE SOCKET FLEXTENSIONS, METRIC

Black Industrial Finish

		A				B	C	D	E
Product Code	Drive	Shank Length	Tension	Socket Points	Socket (mm)	Socket Length	Socket Diameter	Nose Diameter	Socket Hex Depth
JHWISSXTM410	½"	4.09"/103.9MM	Yes	6	10	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISSXM410	½"	4.09"/103.9MM	No	6	10	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
ISSXTMD610	½"	6.57"/166.9MM	Yes	12	10	1.30"/33.0MM	0.90"/22.7MM	0.59"/15.0MM	0.31"/7.9MM
JHWISSXM610	½"	6.57"/166.9MM	No	6	10	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISSXTM910	½"	9.57"/243.1MM	Yes	6	10	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISSXM910	½"	9.57"/243.1MM	No	6	10	1.06"/26.9MM	0.90"/22.7MM	0.63"/16.0MM	0.28"/7.1MM
JHWISSXTM412	½"	4.09"/103.9MM	Yes	6	12	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSXM412	½"	4.09"/103.9MM	No	6	12	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSXTM612	½"	6.57"/166.9MM	Yes	6	12	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSXM612	½"	6.57"/166.9MM	No	6	12	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSXTM912	½"	9.57"/243.1MM	Yes	6	12	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSXM912	½"	9.57"/243.1MM	No	6	12	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSXTM413	½"	4.09"/103.9MM	Yes	6	13	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSXM413	½"	4.09"/103.9MM	No	6	13	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSXTM613	½"	6.57"/166.9MM	Yes	6	13	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSXM613	½"	6.57"/166.9MM	No	6	13	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM

Features

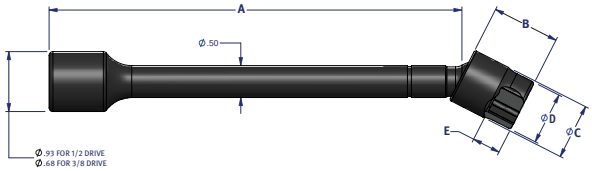
- Made in the U.S.A.
- Durable black oxide finish.
- Socket retention pin is TIG welded, providing full rotation power to the socket
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Drive end has a 7/32" cross hole & bevel for ease of use
- Up to 30 degree angle offset
- Flextensions are designed for use on hand and power tools (Impulse or Direct drive); NOT FOR IMPACT TOOL USE
- Maximum working torque values: 160 Ft. Lbs. /1920 In. Lbs. /217 Nm
- Other lengths and socket sizes available by special order. Contact your Williams representative

USA
Made in U.S.A.

1/2" DRIVE SOCKET FLEXTENSIONS

Williams Flextension are used extensively in engine and heavy equipment manufacturing, assembly and repair. They increase productivity by featuring an integrated (non-removable) design of the drive extension and socket to allow for reliable, continuous work without concern for the socket disconnecting from the extension as could happen with hand-tool type ball retained sockets.

See page 252 for 3/8" Drive Socket Flextensions.



1/2" DRIVE SOCKET FLEXTENSION, METRIC

Black Industrial Finish

		A				B	C	D	E
Product Code	Drive	Shank Length	Tension	Socket Points	Socket (mm)	Socket Length	Socket Diameter	Socket Nose Diameter	Socket Hex Depth
JHWISSXTM913	½"	9.57"/243.1MM	Yes	6	13	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSXM913	½"	9.57"/243.1MM	No	6	13	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISXTM1013	½"	10.57"/268.5MM	Yes	6	13	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSXM1013	½"	10.57"/268.5MM	No	6	13	1.06"/26.9MM	0.90"/22.7MM	0.76"/19.3MM	0.34"/8.6MM
JHWISSX-TM415	½"	4.09"/103.9MM	Yes	6	15	1.06"/26.9MM	0.90"/22.7MM	0.88"/22.4MM	0.42"/10.7MM
JHWISSXM415	½"	4.09"/103.9MM	No	6	15	1.06"/26.9MM	0.90"/22.7MM	0.88"/22.4MM	0.42"/10.7MM
JHWISSXTM615	½"	6.57"/166.9MM	Yes	6	15	1.06"/26.9MM	0.90"/22.7MM	0.88"/22.4MM	0.42"/10.7MM
JHWISSXM615	½"	6.57"/166.9MM	No	6	15	1.06"/26.9MM	0.90"/22.7MM	0.88"/22.4MM	0.42"/10.7MM
JHWISSX-TM915	½"	9.57"/243.1MM	Yes	6	15	1.06"/26.9MM	0.90"/22.7MM	0.88"/22.4MM	0.42"/10.7MM
JHWISSXM915	½"	9.57"/243.1MM	No	6	15	1.06"/26.9MM	0.90"/22.7MM	0.88"/22.4MM	0.42"/10.7MM
JHWISSXTM416	½"	4.09"/103.9MM	Yes	6	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.45"/11.4MM
JHWISSXM416	½"	4.09"/103.9MM	No	6	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.45"/11.4MM
JHWISSXMD416	½"	4.09"/103.9MM	No	12	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.44"/11.2MM
JHWISSXTM616	½"	6.57"/166.9MM	Yes	6	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.45"/11.4MM
JHWISSXM616	½"	6.57"/166.9MM	No	6	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.45"/11.4MM
JHWSPSXMD616	½"	6.57"/166.9MM	No	12	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.44"/11.2MM
JHWISSXTM916	½"	9.57"/243.1MM	Yes	6	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.45"/11.4MM
JHWISSXM916	½"	9.57"/243.1MM	No	6	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.45"/11.4MM
JHWISXTM1016	½"	10.57"/268.5MM	Yes	6	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.45"/11.4MM
JHWISSXM1016	½"	10.57"/268.5MM	No	6	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.45"/11.4MM
JHWISSXTM1216	½"	12.57"/319.3MM	Yes	6	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.45"/11.4MM
JHWISSXM1216	½"	12.57"/319.3MM	No	6	16	1.06"/26.9MM	0.90"/22.7MM	0.90"/22.7MM	0.45"/11.4MM
JHWISSXTM418	½"	4.09"/103.9MM	Yes	6	18	1.06"/26.9MM	1.00"/25.4MM	1.00"/25.4MM	0.45"/11.4MM
JHWISSXM418	½"	4.09"/103.9MM	No	6	18	1.06"/26.9MM	1.00"/25.4MM	1.00"/25.4MM	0.45"/11.4MM
JHWSPSXMD418	½"	4.09"/103.9MM	No	12	18	0.88"/22.4MM	1.00"/25.4MM	1.00"/25.4MM	0.30"/7.6MM
JHWISSXTM618	½"	6.57"/166.9MM	Yes	6	18	1.06"/26.9MM	1.00"/25.4MM	1.00"/25.4MM	0.45"/11.4MM
JHWISSXM618	½"	6.57"/166.9MM	No	6	18	1.06"/26.9MM	1.00"/25.4MM	1.00"/25.4MM	0.45"/11.4MM
JHWSPSXMD618	½"	6.57"/166.9MM	No	12	18	0.88"/22.4MM	1.00"/25.4MM	1.00"/25.4MM	0.30"/7.6MM
JHWISSXTM918	½"	9.57"/243.1MM	Yes	6	18	1.06"/26.9MM	1.00"/25.4MM	1.00"/25.4MM	0.45"/11.4MM
JHWISSXM918	½"	9.57"/243.1MM	No	6	18	1.06"/26.9MM	1.00"/25.4MM	1.00"/25.4MM	0.45"/11.4MM
JHWISXTM1018	½"	10.57"/268.5MM	Yes	6	18	1.06"/26.9MM	1.00"/25.4MM	1.00"/25.4MM	0.45"/11.4MM
JHWISSXM1018	½"	10.57"/268.5MM	No	6	18	1.06"/26.9MM	1.00"/25.4MM	1.00"/25.4MM	0.45"/11.4MM

Features

- Made in the U.S.A.
- Durable black oxide finish
- Socket retention pin is TIG welded, providing full rotation power to the socket
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Drive end has a 7/32" cross hole & bevel for ease of use
- Up to 30 degree angle offset
- Flextensions are designed for use on hand and power tools (Impulse or Direct drive); NOT FOR IMPACT TOOL USE
- Maximum working torque values: 160 Ft. Lbs. /1920 In. Lbs. /217 Nm
- Other lengths and socket sizes available by special order. Contact your Snap-on Industrial Brands representative

Made in U.S.A.

WARNING

1/2" DRIVE IMPACT EXTENSIONS AND ACCESSORIES

Black Industrial Finish

Product Code	Description	Length (Inches)	Socket Retention
JHW4-102	Impact Extension	3 1/2	Lock Ring
JHW4-105A	Impact Extension	5	Spring Plunger
JHW4-110A	Impact Extension	10	Spring Plunger
JHW4-140B	Impact Universal Joint	2 1/2	Spring Plunger
JHW4-2F	3/8" M x 1/2" F Adapter	2 1/4	Spring Plunger
JHW4-6	3/4" M x 1/2" F Adapter	1 1/4	Through Hole

Fed. Spec: ANSI B107.2

Features

- Specially heat treated for impact use to provide long life, safety, and durability
- Spring plunger provides secure socket retention for safety and convenience
- Suitable for use with pneumatic and electric impact wrenches

Made in U.S.A.

1/2" DRIVE HEX TO SQUARE SHANK IMPACT EXTENSIONS

Black Industrial Finish

Product Code	Hex Shank Size (Inches)	Square Drive Size (Inches)	Length Inches)
JHW4-33B	7/16	1/2	2 3/4
JHW4-35B	7/16	1/2	5
JHW4-53B	5/8	1/2	2 3/4

Features

- Specially heat treated for impact use to provide long life, safety, and durability
- Spring plunger provides secure socket retention for safety and convenience
- Suitable for use with pneumatic and electric impact wrenches

Made in U.S.A.

1/2" DRIVE SHALLOW IMPACT SOCKETS, 6 POINT, SAE

Black Industrial Finish

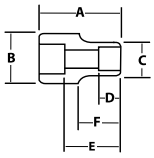
		A	B	C	D	E		F
Product Code	Size (Inches)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)
JHW4-612	3/8	1 1/2	29/32	19/32	1/4	7/8	11/32	11/16
JHW4-614	7/16	1 1/2	29/32	23/32	5/16	7/8	13/32	11/16
JHW4-616	1/2	1 1/2	29/32	13/16	13/32	7/8	15/32	11/16
JHW4-618	9/16	1 1/2	29/32	7/8	13/32	7/8	15/32	11/16
JHW4-620	5/8	1 1/2	31/32	31/32	15/32	7/8	1/2	-
JHW4-622	11/16	1 1/2	1 1/16	1 1/16	13/16	27/32	5/8	-
JHW4-624	3/4	1 1/2	1 1/8	1 1/8	13/16	27/32	11/16	-
JHW4-626	13/16	1 1/2	1 1/4	1 1/4	13/16	13/16	25/32	-
JHW4-628	7/8	1 1/2	1 5/16	1 5/16	13/16	13/16	7/8	-
JHW4-630	15/16	1 3/4	1 3/8	1 3/8	1 1/32	1 1/16	15/16	-
JHW4-632	1	1 3/4	1 7/16	1 7/16	1 1/32	1 1/16	1	-
JHW4-634	1 1/16	2	1 9/16	1 9/16	1 1/4	1 9/32	1 1/32	-
JHW4-636	1 1/8	2	1 5/8	1 5/8	1 1/4	1 9/32	1 1/8	-
JHW4-638	1 3/16	2	1 11/16	1 11/16	1 1/4	1 9/32	1 5/32	-
JHW4-640	1 1/4	2	1 3/4	1 3/4	13/16	1 9/32	1 7/32	-
JHW4-642	1 5/16	2	1 1/2	1 7/8	7/8	1 3/8	1 1/16	-
JHW4-644	1 3/8	2	1 1/2	1 15/16	7/8	1 3/8	1 1/16	-
JHW4-646	1 7/16	2	1 1/2	2	29/32	1 3/8	1 1/16	-
JHW4-648	1 1/2	2	1 9/16	2 1/8	29/32	1 3/8	1 1/16	-

Fed. Spec: ANSI B107.2

TOOLS @ HEIGHT DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW4-618 JHW4-612



JHWWS-4-7RC

7 Piece 1/2" Drive Shallow 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW4-614	7/16	JHW4-622	11/16
JHW4-616	1/2	JHW4-624	3/4
JHW4-618	9/16	JHW4-626	13/16
JHW4-620	5/8		

JHWWS-4-7RC

JHWWS-4-11RC

11 Piece 1/2" Drive Shallow 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW4-616	1/2	JHW4-624	3/4	JHW4-632	1
JHW4-618	9/16	JHW4-626	13/16	JHW4-634	1 1/16
JHW4-620	5/8	JHW4-628	7/8	JHW4-636	1 1/8
JHW4-622	11/16	JHW4-630	15/16		

JHWWS-4-11RC

JHWWS-4-14

14 Piece 1/2" Drive Shallow 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW4-612	3/8	JHW4-622	11/16	JHW4-632	1
JHW4-614	7/16	JHW4-624	3/4	JHW4-634	1 1/16
JHW4-616	1/2	JHW4-626	13/16	JHW4-636	1 1/8
JHW4-618	9/16	JHW4-628	7/8	JHW4-640	1 1/4
JHW4-620	5/8	JHW4-630	15/16		

JHWWS-4-14

JHWWS-4-19RC

19 Piece 1/2" Drive Shallow 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW4-612	3/8	JHW4-622	11/16	JHW4-632	1	JHW4-642	1 5/16
JHW4-614	7/16	JHW4-624	3/4	JHW4-634	1 1/16	JHW4-644	1 3/8
JHW4-616	1/2	JHW4-626	13/16	JHW4-636	1 1/8	JHW4-646	1 7/16
JHW4-618	9/16	JHW4-628	7/8	JHW4-638	1 3/16	JHW4-648	1 1/2
JHW4-620	5/8	JHW4-630	15/16	JHW4-640	1 1/4		

JHWWS-4-19RC

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

Made in U.S.A.

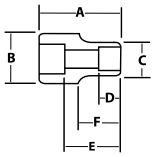
WARNING

TOOLS @ HEIGHT
DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW35512

JHW37923



1/2" DRIVE SHALLOW IMPACT SOCKETS, 12 POINT, SAE

Black Industrial Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW35512	3/8	1 1/2	7/8	5/8	3/8	/	1/4	5/8
JHW35514	7/16	1 1/2	7/8	3/4	3/8	/	1/4	5/8
JHW35516	1/2	1 1/2	7/8	3/4	3/8	/	1/4	5/8
JHW35518	9/16	1 1/2	1	7/8	3/8	/	1/2	5/8
JHW35520	5/8	1 1/2	1	1	1/2	/	1/2	/
JHW35522	11/16	1 1/2	1	1	1/2	/	1/2	/
JHW35524	3/4	1 1/2	1	1	1/2	/	5/8	/
JHW35526	13/16	1 1/2	1 1/8	1 1/8	1/2	/	3/4	/
JHW35528	7/8	1 1/2	1 1/4	1 1/4	1/2	/	3/4	/
JHW35530	15/16	1 1/2	1 1/4	1 1/4	1/2	/	7/8	/
JHW35532	1	1 1/2	1 1/4	1 1/2	1/2	/	7/8	/
JHW35534	1 1/16	1 9/16	1 1/2	1 1/2	5/8	/	1	/
JHW35536	1 1/8	1 9/16	1 1/2	1 1/2	3/4	/	1	9/16
JHW35538	1 3/16	1 9/16	1 1/2	1 5/8	3/4	/	1	9/16
JHW35540	1 1/4	1 9/16	1 1/2	1 3/4	3/4	/	1 1/8	9/16
JHW35542	1 5/16	1 5/8	1 1/2	1 3/4	7/8	/	1 1/8	9/16
JHW35544	1 3/8	1 5/8	1 1/2	1 7/8	7/8	/	1 1/4	9/16
JHW35546	1 7/16	1 5/8	1 1/2	2	7/8	/	1 1/4	9/16
JHW35548	1 1/2	1 5/8	1 1/2	2	1	/	1 3/8	9/16

JHW37923

11 piece 1/2" Drive Impact Shallow 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW35512	3/8	JHW35520	5/8	JHW35528	7/8
JHW35514	7/16	JHW35522	11/16	JHW35530	15/16
JHW35516	1/2	JHW35524	3/4	JHW35532	1
JHW35518	9/16	JHW35526	13/16		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 and 12 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability
- Drive end features pin retention hole and groove

JHW37224

JHW37918

1/2" DRIVE UNIVERSAL IMPACT SOCKETS, 6 POINT, SAE

Black Industrial Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW37216	1/2	2 3/4	1	3/4	3/8	9/16	7/16	1
JHW37218	9/16	2 3/4	1	3/4	3/8	9/16	7/16	1
JHW37220	5/8	2 3/4	1	3/4	3/8	9/16	9/16	1
JHW37222	11/16	2 3/4	1 1/4	1	1/2	11/16	11/16	1 1/4
JHW37224	3/4	2 3/4	1 1/4	1	1/2	11/16	11/16	1 1/4
JHW37226	13/16	3	1 1/4	1 1/4	5/8	13/16	13/16	1 1/2
JHW37228	7/8	3	1 1/4	1 1/4	5/8	13/16	13/16	1 1/2

Fed. Spec: ANSI B107.2

JHW37918

7 Piece 1/2" Drive Universal 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW37216	1/2	JHW37222	11/16	JHW37228	7/8
JHW37218	9/16	JHW37224	3/4		
JHW37220	5/8	JHW37226	13/16		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability
- Drive end features pin retention hole and groove

1/2" DRIVE UNIVERSAL IMPACT SOCKETS, 6 POINT, METRIC

Black Industrial Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW37813	13	2 3/4	1	3/4	3/8	1/2	1/2	1
JHW37814	14	2 3/4	1	3/4	3/8	1/2	1/2	1
JHW37815	15	2 3/4	1	1	3/8	1/2	1/2	1
JHW37816	16	2 3/4	1	1	3/8	1/2	1/2	1
JHW37817	17	2 3/4	1 1/4	1	1/2	3/4	3/4	1 1/4
JHW37818	18	2 3/4	1 1/4	1	1/2	3/4	3/4	1 1/4
JHW37819	19	2 3/4	1 1/4	1	1/2	3/4	3/4	1 1/4
JHW37820	20	3	1 1/4	1 1/4	5/8	3/4	3/4	1 1/2
JHW37821	21	3	1 1/4	1 1/4	5/8	3/4	3/4	1 1/2
JHW37822	22	3	1 1/4	1 1/4	5/8	3/4	3/4	1 1/2
JHW37823	23	3	1 1/4	1 1/4	5/8	3/4	3/4	1 1/2

JHW37819

TOOLS @ HEIGHT DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW37916 11 Piece 1/2" Drive Universal 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW37813	13	JHW37817	17	JHW37821	21
JHW37814	14	JHW37818	18	JHW37822	22
JHW37815	15	JHW37819	19	JHW37823	23
JHW37816	16	JHW37820	20		

JHW37916

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability
- Drive end features pin retention hole and groove

1/2" DRIVE DEEP IMPACT SOCKETS, 6 POINT, SAE

Black Industrial Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW14-612	3/8	3 1/4	29/32	19/32	5/16	2 5/8	11/32	2 15/32
JHW14-614	7/16	3 1/4	29/32	23/32	11/32	2 5/8	13/32	2 15/32
JHW14-616	1/2	3 1/4	29/32	13/16	13/32	2 5/8	15/32	2 15/32
JHW14-618	9/16	3 1/4	29/32	7/8	13/32	2 5/8	15/32	2 15/32
JHW14-620	5/8	3 1/4	31/32	31/32	15/32	2 7/16	5/8	-
JHW14-622	11/16	3 1/4	1 1/16	1 1/16	1/2	2	5/8	-
JHW14-624	3/4	3 1/4	1 1/8	1 1/8	9/16	2	11/16	-
JHW14-626	13/16	3 1/4	1 1/4	1 1/4	5/8	2	25/32	-
JHW14-628	7/8	3 1/2	1 5/16	1 5/16	9/16	2 1/4	7/8	-
JHW14-630	15/16	3 1/2	1 3/8	1 3/8	3/4	2 1/4	15/16	-
JHW14-632	1	3 1/2	1 7/16	1 7/16	3/4	2 1/4	1	-
JHW14-634	1 1/16	3 1/2	1 9/16	1 9/16	25/32	2 1/4	1 1/32	-
JHW14-636	1 1/8	3 1/2	1 5/8	1 5/8	13/16	2 1/4	1 1/8	-
JHW14-638	1 3/16	3 1/2	1 11/16	1 11/16	13/16	2 1/4	1 3/16	-
JHW14-640	1 1/4	3 1/2	1 3/4	1 3/4	1	2 21/32	1 1/4	-
JHW14-642	1 5/16	3 1/2	1 1/2	1 7/8	15/16	2 7/8	1 1/16	-
JHW14-644	1 3/8	3 1/2	1 1/2	2	29/32	2 7/8	1 1/16	-
JHW14-646	1 7/16	3 1/2	1 1/2	2	29/32	2 7/8	1 1/16	-
JHW14-648	1 1/2	3 1/2	1 9/16	2 1/8	29/32	2 7/8	1 1/16	-

Fed. Spec: ANSI B107.2

JHW14-612 JHW14-624

JHWWS-14-11 11 Piece 1/2" Drive Deep 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW14-612	3/8	JHW14-620	5/8	JHW14-628	7/8
JHW14-614	7/16	JHW14-622	11/16	JHW14-630	15/16
JHW14-616	1/2	JHW14-624	3/4	JHW14-632	1
JHW14-618	9/16	JHW14-626	13/16		

JHWWS-14-11

JHWWS1414RC 14 Piece 1/2" Drive Deep 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW14-612	3/8	JHW14-622	11/16	JHW14-632	1
JHW14-614	7/16	JHW14-624	3/4	JHW14-634	1 1/16
JHW14-616	1/2	JHW14-626	13/16	JHW14-636	1 1/8
JHW14-618	9/16	JHW14-628	7/8	JHW14-640	1 1/4
JHW14-620	5/8	JHW14-630	15/16		

JHWWS1414RC

JHWWS-1419RC 19 Piece 1/2" Drive Deep 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW14-612	3/8	JHW14-622	11/16	JHW14-632	1	JHW14-642	1 5/16
JHW14-614	7/16	JHW14-624	3/4	JHW14-634	1 1/16	JHW14-644	1 3/8
JHW14-616	1/2	JHW14-626	13/16	JHW14-636	1 1/8	JHW14-646	1 7/16
JHW14-618	9/16	JHW14-628	7/8	JHW14-638	1 3/16	JHW14-648	1 1/2
JHW14-620	5/8	JHW14-630	15/16	JHW14-640	1 1/4		

JHWWS-1419RC

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

WARNING

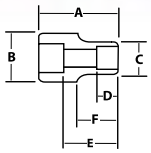
Made in U.S.A.

1/2" DRIVE SHALLOW IMPACT SOCKETS, 6 POINT, METRIC

Black Industrial Finish

TOOLS @ HEIGHT DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints



Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW4M-610	10	1 1/2	29/32	19/32	1/4	7/8	11/32	23/32
JHW4M-611	11	1 1/2	29/32	23/32	5/16	7/8	13/32	23/32
JHW4M-612	12	1 1/2	29/32	25/32	3/8	7/8	7/16	23/32
JHW4M-613	13	1 1/2	29/32	27/32	13/32	7/8	15/32	23/32
JHW4M-614	14	1 1/2	29/32	7/8	7/16	7/8	15/32	23/32
JHW4M-615	15	1 1/2	15/16	15/16	7/16	7/8	15/32	-
JHW4M-616	16	1 1/2	31/32	31/32	15/32	7/8	15/32	-
JHW4M-617	17	1 1/2	1	1	1/2	7/8	15/32	-
JHW4M-618	18	1 1/2	1 1/16	1 1/16	27/32	27/32	21/32	-
JHW4M-619	19	1 1/2	1 1/8	1 1/8	13/16	27/32	11/16	-
JHW4M-620	20	1 1/2	1 3/16	1 3/16	13/16	27/32	23/32	-
JHW4M-621	21	1 1/2	1 1/4	1 1/4	13/16	27/32	3/4	-
JHW4M-622	22	1 1/2	1 5/16	1 5/16	13/16	27/32	13/16	-
JHW4M-623	23	1 3/4	1 5/32	1 5/32	1 1/32	1 3/32	27/32	-
JHW4M-624	24	1 3/4	1 3/8	1 3/8	1 1/16	1 3/32	7/8	-
JHW4M-625	25	1 3/4	1 7/16	1 7/16	1 1/16	1 3/32	29/32	-
JHW4M-626	26	1 31/32	1 1/2	1 1/2	1 1/4	1 9/32	31/32	-
JHW4M-627	27	1 31/32	1 9/16	1 9/16	1 1/4	1 9/32	1	-
JHW4M-629	29	1 31/32	1 21/32	1 21/32	1 1/4	1 9/32	1 1/16	-
JHW4M-630	30	1 31/32	1 11/16	1 11/16	1 1/4	1 9/32	1 3/32	-
JHW4M-632	32	2	1 13/16	1 13/16	7/8	1 9/32	1 1/8	-
JHW4M-634	34	2 1/16	1 11/16	1 7/8	29/32	1 7/16	1 11/32	-
JHW4M-636	36	2 1/4	1 13/16	2	29/32	1 5/8	1 7/16	-

JHW4M-621 JHW4M-610

JHWMS410HRC

JHWMS410HRC

10 Piece 1/2" Drive Shallow 6 Point Impact Socket Set on Clip Rail
Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW4M-610	10	JHW4M-614	14	JHW4M-618	18
JHW4M-611	11	JHW4M-615	15	JHW4M-619	19
JHW4M-612	12	JHW4M-616	16		
JHW4M-613	13	JHW4M-617	17		

JHWMS4-12HRC

JHWMS4-12HRC

12 Piece 1/2" Drive Shallow 6 Point Impact Socket Set on Clip Rail
Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW4M-613	13	JHW4M-617	17	JHW4M-622	22
JHW4M-614	14	JHW4M-618	18	JHW4M-624	24
JHW4M-615	15	JHW4M-619	19	JHW4M-627	27
JHW4M-616	16	JHW4M-621	21	JHW4M-630	30

JHWMS-4-16RC

JHWMS-4-16RC

16 Piece 1/2" Drive Shallow 6 Point Impact Socket Set on Clip Rail
Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW4M-610	10	JHW4M-614	14	JHW4M-618	18	JHW4M-622	22
JHW4M-611	11	JHW4M-615	15	JHW4M-619	19	JHW4M-623	23
JHW4M-612	12	JHW4M-616	16	JHW4M-620	20	JHW4M-624	24
JHW4M-613	13	JHW4M-617	17	JHW4M-621	21	JHW4M-627	27

JHWMS-4-23RC

JHWMS-4-23RC

23 Piece 1/2" Drive Shallow 6 Point Impact Socket Set on Clip Rail
Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW4M-610	10	JHW4M-616	16	JHW4M-622	22	JHW4M-629	29
JHW4M-611	11	JHW4M-617	17	JHW4M-623	23	JHW4M-630	30
JHW4M-612	12	JHW4M-618	18	JHW4M-624	24	JHW4M-632	32
JHW4M-613	13	JHW4M-619	19	JHW4M-625	25	JHW4M-634	34
JHW4M-614	14	JHW4M-620	20	JHW4M-626	26	JHW4M-636	36
JHW4M-615	15	JHW4M-621	21	JHW4M-627	27		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

Made in U.S.A.

1/2" DRIVE SHALLOW IMPACT SOCKETS, 12 POINT, METRIC

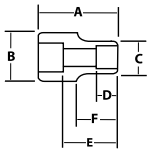
Black Industrial Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	E Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW37610	10	1 1/2	7/8	5/8	3/8	/	3/8	5/8
JHW37611	11	1 1/2	7/8	3/4	3/8	/	3/8	5/8
JHW37612	12	1 1/2	7/8	3/4	3/8	/	3/8	5/8
JHW37613	13	1 1/2	15/16	13/16	3/8	/	3/8	5/8
JHW37614	14	1 1/2	15/16	7/8	3/8	/	1/2	5/8
JHW37615	15	1 1/2	1	7/8	1/2	/	1/2	5/8
JHW37616	16	1 1/2	1	1	1/2	/	1/2	/
JHW37617	17	1 1/2	1	1	1/2	/	9/16	/
JHW37618	18	1 1/2	1	1	1/2	/	5/8	/
JHW37619	19	1 1/2	1 1/8	1 1/8	1/2	/	5/8	/
JHW37620	20	1 1/2	1 1/8	1 1/8	1/2	/	3/4	/
JHW37621	21	1 1/2	1 1/4	1 1/4	9/16	/	3/4	/
JHW37622	22	1 1/2	1 1/4	1 1/4	9/16	/	13/16	/
JHW37623	23	1 5/8	1 1/4	1 1/4	5/8	/	13/16	/
JHW37624	24	1 5/8	1 1/2	1 3/8	5/8	/	7/8	/
JHW37625	25	1 5/8	1 1/2	1 3/8	5/8	/	7/8	/
JHW37626	26	1 5/8	1 1/2	1 1/2	5/8	/	15/16	/
JHW37627	27	1 13/16	1 1/2	1 1/2	3/4	/	15/16	9/16
JHW37628	28	1 13/16	1 1/2	1 1/2	3/4	/	1	9/16
JHW37629	29	1 13/16	1 1/2	1 5/8	3/4	/	1	9/16
JHW37630	30	1 13/16	1 1/2	1 5/8	3/4	/	1	9/16
JHW37632	32	1 13/16	1 1/2	1 3/4	13/16	/	1 1/8	9/16
JHW37633	33	1 13/16	1 1/2	1 13/16	7/8	/	1 1/8	9/16
JHW37634	34	1 13/16	1 1/2	1 13/16	7/8	/	1 1/4	9/16
JHW37635	35	2	1 1/2	2	7/8	/	1 1/4	9/16
JHW37636	36	2	1 1/2	2	7/8	/	1 1/4	9/16

TOOLS @ HEIGHT DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW37624 JHW37610



JHW37925

10 piece 1/2" Drive Impact Shallow 12 Point, MM Socket Set on Clip Rails

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW37610	10	JHW37613	13	JHW37616	16
JHW37611	11	JHW37614	14	JHW37617	17
JHW37612	12	JHW37615	15	JHW37618	18
				JHW37619	19

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 and 12 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

JHW37925

WARNING

1/2" DRIVE DEEP IMPACT SOCKETS, 6 POINT, METRIC

TOOLS @ HEIGHT DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW14M-621 JHW14M-610

Black Industrial Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW14M-610	10	3 1/4	29/32	19/32	9/32	2 9/16	11/32	2 15/32
JHW14M-611	11	3 1/4	29/32	23/32	21/64	2 9/16	13/32	2 15/32
JHW14M-612	12	3 1/4	29/32	49/64	23/64	2 9/16	7/16	2 15/32
JHW14M-613	13	3 1/4	29/32	53/64	25/64	2 9/16	15/32	2 15/32
JHW14M-614	14	3 1/4	29/32	7/8	13/32	2 9/16	15/32	2 15/32
JHW14M-615	15	3 1/4	15/16	15/16	13/32	2 7/64	33/64	-
JHW14M-616	16	3 1/4	31/32	31/32	29/64	1 31/32	17/32	-
JHW14M-617	17	3 1/4	1	1	27/64	1 31/32	39/64	-
JHW14M-618	18	3 1/4	1 1/16	1 1/16	1/2	1 31/32	21/32	-
JHW14M-619	19	3 1/4	1 1/4	1 1/4	35/64	1 61/64	11/16	-
JHW14M-620	20	3 1/4	1 3/16	1 3/16	35/64	1 61/64	23/32	-
JHW14M-621	21	3 1/4	1 1/4	1 1/4	35/64	1 61/64	3/4	-
JHW14M-622	22	3 1/2	1 5/16	1 5/16	35/64	2 7/64	51/64	-
JHW14M-623	23	3 1/2	1 11/32	1 11/32	5/8	2 7/64	53/64	-
JHW14M-624	24	3 1/2	1 3/8	1 3/8	5/8	2 7/64	7/8	-
JHW14M-625	25	3 1/2	1 7/16	1 7/16	5/8	2 7/64	29/32	-
JHW14M-626	26	3 1/2	1 31/64	1 31/64	5/8	2 7/64	15/16	-
JHW14M-627	27	3 1/2	1 9/16	1 9/16	25/32	2 7/64	31/32	-
JHW14M-629	29	3 1/2	1 5/8	1 5/8	13/16	2 7/64	1 1/16	-
JHW14M-630	30	3 1/2	1 11/16	1 11/16	53/64	2 21/32	1 3/32	-
JHW14M-632	32	3 1/2	1 13/16	1 13/16	7/8	2 21/32	1 1/4	-
JHW14M-634	34	3 1/2	1 3/4	1 15/16	57/64	2 55/64	1 21/64	-
JHW14M-635	35	3 1/2	1 3/4	2	57/64	2 55/64	1 23/64	-
JHW14M-636	36	3 1/2	1 3/4	2	57/64	2 13/16	1 1/8	-

JHWMS1410HRC

JHWMS1410HRC 10 Piece 1/2" Drive Deep 6 Point Impact Socket Set on Clip Rail

Contents Include:

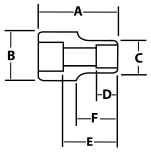
Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW14M-610	10	JHW14M-614	14	JHW14M-618	18
JHW14M-611	11	JHW14M-615	15	JHW14M-619	19
JHW14M-612	12	JHW14M-616	16		
JHW14M-613	13	JHW14M-617	17		

JHWMS-1416RC

JHWMS-1416RC 16 Piece 1/2" Drive Deep 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW14M-610	10	JHW14M-614	14	JHW14M-618	18	JHW14M-622	22
JHW14M-611	11	JHW14M-615	15	JHW14M-619	19	JHW14M-623	23
JHW14M-612	12	JHW14M-616	16	JHW14M-620	20	JHW14M-624	24
JHW14M-613	13	JHW14M-617	17	JHW14M-621	21	JHW14M-627	27



JHWMS-1424RC 24 Piece 1/2" Drive Deep 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW14M-610	10	JHW14M-616	16	JHW14M-622	22	JHW14M-629	29
JHW14M-611	11	JHW14M-617	17	JHW14M-623	23	JHW14M-630	30
JHW14M-612	12	JHW14M-618	18	JHW14M-624	24	JHW14M-632	32
JHW14M-613	13	JHW14M-619	19	JHW14M-625	25	JHW14M-634	34
JHW14M-614	14	JHW14M-620	20	JHW14M-626	26	JHW14M-635	35
JHW14M-615	15	JHW14M-621	21	JHW14M-627	27	JHW14M-636	36

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

Made in U.S.A.

JHWMS-1424RC

1/2" DRIVE DEEP IMPACT SOCKETS, 12 POINT, SAE

Black Industrial Finish

Product Code	Size (Inches)	A Overall Length (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)
JHW14-1216	1/2	3 1/4	7/8	13/16	3/8	2 9/16
JHW14-1218	9/16	3 1/4	7/8	7/8	7/16	2 9/16
JHW14-1220	5/8	3 1/4	15/16	15/16	7/16	2 9/16
JHW14-1222	11/16	3 1/4	1 1/16	1 1/16	1/2	2 1/4
JHW14-1224	3/4	3 1/4	1 1/8	1 1/8	9/16	2 1/4
JHW14-1226	13/16	3 1/4	1 1/4	1 1/4	9/16	2 1/4
JHW14-1228	7/8	3 1/2	1 5/16	1 5/16	5/8	2 1/2
JHW14-1230	15/16	3 1/2	1 3/8	1 3/8	11/16	2 1/2
JHW14-1232	1	3 1/2	1 7/16	1 7/16	3/4	2 1/2
JHW14-1234	1 1/16	3 1/2	1 9/16	1 9/16	3/4	2 1/2
JHW14-1236	1 1/8	3 1/2	1 5/8	1 5/8	13/16	2 1/2
JHW14-1238	1 3/16	3 1/2	1 11/16	1 11/16	13/16	2 7/16
JHW14-1240	1 1/4	3 1/2	1 3/4	1 3/4	7/8	2 7/16

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6- and 12-point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat-treated for impact use to provide long life, safety, and durability

Made in U.S.A.

JHW14-1218

1/2" DRIVE DEEP IMPACT SOCKETS, 12 POINT, METRIC

Black Industrial Finish

Product Code	Size (MM)	A Overall Length (MM)	B Drive End Diameter (MM)	C Working End Diameter (MM)	D Broach Depth (MM)	E Bolt Clearance Depth (MM)
JHW14M-1210	10	83	23	17	8	66
JHW14M-1211	11	83	23	18	9	66
JHW14M-1212	12	83	23	19	10	66
JHW14M-1213	13	83	23	21	10	66
JHW14M-1214	14	83	23	22	11	66
JHW14M-1215	15	83	24	24	11	66
JHW14M-1216	16	83	24	24	12	66
JHW14M-1217	17	83	25	25	11	58
JHW14M-1218	18	83	27	27	13	58
JHW14M-1219	19	83	29	29	14	58
JHW14M-1220	20	83	30	30	14	58
JHW14M-1221	21	83	32	32	14	57
JHW14M-1222	22	89	33	33	18	63
JHW14M-1223	23	89	34	34	18	64
JHW14M-1224	24	89	35	35	19	63
JHW14M-1225	25	89	36	36	19	63
JHW14M-1227	27	89	40	40	20	63
JHW14M-1229	29	89	41	41	21	63
JHW14M-1230	30	89	43	43	22	62
JHW14M-1232	32	89	46	46	22	63
JHW14M-1233	33	89	46	46	22	62

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6- and 12-point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat-treated for impact use to provide long life, safety, and durability

Made in U.S.A.

JHW14M-1212

WARNING

JHWWSH-43TB

43 PIECE 3/4" DRIVE SOCKET AND DRIVE TOOL SET

12 Point SAE, with Metal Box

Product Code	Description
JHWWSH-43TB	43 Piece Tool Set with JHWTB-12 Metal Tool Box
JHWWSH-43	43 Piece Tool Set Only

Contents Include:

Drive Tools:

Product Code	Description
JHWH-20A	19" Sliding T-Handle
JHWH-41AA	22" Flex Handle
JHWH-51B	20" Ratchet
JHWH-104	3" Extension
JHWH-110	8" Extension
JHWH-115	16" Extension
JHWH-140A	Universal Joint

Deep 12-Point Sockets

Product Code	Size (Inches)
JHWHD-628	7/8
JHWHD-630	15/16
JHWHD-632	1
JHWHD-634	1 1/16
JHWHD-636	1 1/8
JHWHD-640	1 1/4
JHWHD-642	1 5/16
JHWHD-644	1 3/8
JHWHD-646	1 7/16
JHWHD-648	1 1/2
JHWHD-652	1 5/8

Shallow 12-Point Sockets

Product Code	Size (Inches)	Product Code	Size (Inches)
JHWH-1224	3/4	JHWH-1250	1 9/16
JHWH-1226	13/16	JHWH-1252	1 5/8
JHWH-1228	7/8	JHWH-1254	1 11/16
JHWH-1230	15/16	JHWH-1256	1 3/4
JHWH-1232	1	JHWH-1258	1 13/16
JHWH-1234	1 1/16	JHWH-1260	1 7/8
JHWH-1236	1 1/8	JHWH-1264	2
JHWH-1238	1 3/16	JHWH-1266	2 1/16
JHWH-1240	1 1/4	JHWH-1268	2 1/8
JHWH-1242	1 5/16	JHWH-1270	2 3/16
JHWH-1244	1 3/8	JHWH-1272	2 1/4
JHWH-1246	1 7/16	JHWH-1276	2 3/8
JHWH-1248	1 1/2		

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

29 PIECE 3/4" DRIVE SOCKET AND DRIVE TOOL SET

12 Point SAE, with Metal Box

Product Code	Description
JHWWSH-29TB	29 Piece Tool Set with JHWTB-6124B Metal Tool Box
JHWWSH-29	29 Piece Tool Set Only

Contents Include:

Drive Tools:

Product Code	Description
JHWH-20A	19" Sliding T-Handle
JHWH-41AA	22" Flex Handle
JHWH-51B	20" Ratchet
JHWH-104	3" Extension
JHWH-110	8" Extension
JHWH-115	16" Extension
JHWH-140A	Universal Joint

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWH-1228	7/8
JHWH-1230	15/16
JHWH-1232	1
JHWH-1234	1 1/16
JHWH-1236	1 1/8
JHWH-1238	1 3/16
JHWH-1240	1 1/4

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWH-1242	1 5/16
JHWH-1244	1 3/8
JHWH-1246	1 7/16
JHWH-1248	1 1/2
JHWH-1250	1 9/16
JHWH-1252	1 5/8
JHWH-1254	1 11/16
JHWH-1256	1 3/4
JHWH-1258	1 13/16
JHWH-1260	1 7/8
JHWH-1264	2
JHWH-1268	2 1/8
JHWH-1270	2 3/16
JHWH-1272	2 1/4
JHWH-1276	2 3/8

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

JHWWSH-29TB

22 PIECE 3/4" DRIVE SOCKET AND DRIVE TOOL SET

12 Point SAE, with Metal Box

Product Code	Description
JHWWSH-22TB	22 Piece Tool Set with JHWTB-49 Metal Tool Box
JHWWSH-22	22 Piece Tool Set Only

Contents Include:

Drive Tools:

Product Code	Description
JHWH-41AA	22" Flex Handle
JHWH-51B	20" Ratchet
JHWH-104	3" Extension
JHWH-110	8" Extension
JHWH-115	16" Extension
JHWH-140A	Universal Joint

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWH-1228	7/8
JHWH-1230	15/16
JHWH-1232	1
JHWH-1234	1 1/16

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWH-1236	1 1/8
JHWH-1240	1 1/4
JHWH-1242	1 5/16
JHWH-1244	1 3/8
JHWH-1246	1 7/16
JHWH-1248	1 1/2
JHWH-1252	1 5/8
JHWH-1254	1 11/16
JHWH-1256	1 3/4
JHWH-1258	1 13/16
JHWH-1260	1 7/8
JHWH-1264	2

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

JHWWSH-22TB

WARNING

13 PIECE 3/4" DRIVE SOCKET AND DRIVE TOOL SET

JHWWSH-13TB

12 Point SAE, with Metal Box

Product Code	Description
JHWWSH-13TB	13 Piece Tool Set with JHWTB-49 Metal Tool Box
JHWWSH-13	13 Piece Tool Set Only

Contents Include:

Drive Tools:

Product Code	Description
JHWH-51B	20" Ratchet
JHWH-110	8" Extension

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWH-1228	7/8
JHWH-1230	15/16
JHWH-1232	1
JHWH-1234	1 1/16
JHWH-1236	1 1/8
JHWH-1240	1 1/4
JHWH-1242	1 5/16
JHWH-1244	1 3/8
JHWH-1246	1 7/16
JHWH-1248	1 1/2
JHWH-1252	1 5/8

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

20 PIECE 3/4" DRIVE SOCKET AND DRIVE TOOL SET

JHWMSH-20TB

12 Point Metric, with Metal Box

Product Code	Description
JHWMSH-20TB	20 Piece Tool Set with JHWTB-49 Metal Tool Box
JHWMSH-20	20 Piece Tool Set Only

Contents Include:

Drive Tools:

Product Code	Description
JHWH-41AA	22" Flex Handle
JHWH-51B	20" Ratchet
JHWH-110	8" Extension
JHWH-115	16" Extension
JHWH-140A	Universal Joint

Shallow 12-Point Sockets

Product Code	Size (MM)
JHWHM-1219	19
JHWHM-1222	22
JHWHM-1224	24
JHWHM-1227	27
JHWHM-1230	30
JHWHM-1232	32
JHWHM-1235	35
JHWHM-1236	36
JHWHM-1238	38
JHWHM-1241	41
JHWHM-1246	46
JHWHM-1250	50
JHWHM-1254	54
JHWHM-1255	55
JHWHM-1260	60

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

3/4" DRIVE INTEGRATED HANDLE RATCHETS

Chrome and Black Industrial Finish

Product Code	Description	Length (Inches)	Number of Teeth
JHWH-51B	Chrome Ratchet	20 1/8	32
JHWHB-51B	Black Finish Ratchet	20 1/8	32
JHWH-52EHRK	Repair Kit for JHWH-51B and JHWHB-51B		

Fed. Spec: ANSI B107.10M

Features

- Forged one-piece ratchet provide strength and safety for industrial applications
- Smooth comfort-grip handle permits all-day use without gloves
- 32 tooth gear with 11 degree of engagement allows engagement in tight working areas
- Single Pawl ratchet design:
  1) Designed for tighter tolerances between pawl and gear which reduces metal fatigue and slippage under load
  2) Does not require as many working parts, reducing possible breakage and parts to repair
- Easy access reverse lever allows user to change working direction quickly and easily with only one hand
- Ball and Spring socket retention

Made in U.S.A.

JHWH-51B

JHWHB-51B

3/4" DRIVE REMOVABLE-HANDLE RATCHETS

Knurled Handle, Chrome Finish

Product Code	Description	Length (Inches)	Number of Teeth
Complete Ratchet			
JHWH-51AB1	Ratchet with 19 1/4" Handle	24 11/16	32
Components			
JHWH-51AB	Ratchet Head Only	6	32
JHWH-A1	Handle Only	19 1/4	
JHWH-52EHRKA	Repair Kit for JHWH-51AB1 and JHWH-51AB		

Note: Head Bore and Handle End Diameter: 13/16"

Fed. Spec: ANSI B107.10M

Features

- 32 teeth action provides an 11° ratcheting angle
- Shift lever reverses action instantly
- Ball and spring provide firm socket retention
- Removable handle makes the tool more versatile, and storage easier
- Knurled handle provides a non-slip grip
- Chrome finish models provides increased protection from rust and corrosion
- Our most rugged, high torque capacity ratchet

Made in U.S.A.

JHWH-51AB1

JHWH-51AB

JHWH-A1

3/4" DRIVE HANDLES

Chrome and Black Industrial Finish

Product Code	Description	Length (Inches)	Finish
JHWH-41AA	Flex Handle Breaker Bar, Knurled Grip	22 1/8	Chrome
JHWH-20A	Sliding T-Handle	19 1/4	Chrome
JHWHB-20A	Sliding T-Handle	19 1/4	Black Industrial

Fed. Spec: ANSI B107.10M

Features

- Chrome plating provides increased protection from rust and corrosion
- Drive handles provide extra leverage with greater strength than ratchets
- Square drive slides on T-Handles for versatility
- Flex handle flex drive swivels 110° in either direction

Made in U.S.A.

JHWH-41AA

JHWH-20A

JHWHB-20A

WARNING

3/4" DRIVE EXTENSIONS

Chrome and Black Industrial Finish

Product Code	Length (Inches)
Chrome Finish	
JHWH-104	3
JHWH-110	8
JHWH-115	16
Black Industrial Finish	
JHWH-104B	3
JHWH-110B	8
JHWH-115B	16

Fed. Spec: ANSI B107.10M

Features

- Chrome plating provides increased protection from rust and corrosion
- Ball and spring socket retention

Made in U.S.A.

3/4" DRIVE ADAPTERS

Chrome and Black Industrial Finish

Product Code	Length (Inches)	Male End (Inches)	Female End (Inches)	Female End Detent
Chrome Finish				
JHWHNX-130	3	1	3/4	Detent on Each Wall
JHWHNX-131	3 1/16	3/4	1	Drilled Hole
JHW33008	2 1/8	1/2	3/4	Drilled Hole
Black Industrial Finish				
JHWHNX-130B	3	1	3/4	Detent on Each Wall
JHWHNX-131B	3 1/16	3/4	1	Drilled Hole

Fed. Spec: ANSI B107.10M

Features

- Chrome plating provides increased protection from rust and corrosion
- Ball and spring socket retention

Made in U.S.A.

3/4" DRIVE UNIVERSAL JOINTS

Chrome and Black Industrial Finish

Product Code	Description	Length (Inches)
Chrome Finish		
JHWH-140A	Universal Joint	4 1/16
Black Industrial Finish		
JHWHB-140A	Universal Joint	4 1/16

Features

- Chrome plating provides increased protection from rust and corrosion
- Ball and spring socket retention

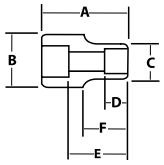
Made in U.S.A.

3/4" DRIVE SHALLOW 12 POINT SOCKETS, SAE

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWH-1224	3/4	2	1 7/16	1 1/8	17/32	1 1/4	11/16	13/16
JHWH-1226	13/16	2	1 7/16	1 7/32	9/16	1 1/4	11/16	13/16
JHWH-1228	7/8	2	1 7/16	1 5/16	19/32	1 1/4	11/16	13/16
JHWH-1230	15/16	2	1 7/16	1 3/8	21/32	1 1/4	11/16	13/16
JHWH-1231	31/32	2	1 7/16	1 13/32	11/16	1 1/4	11/16	13/16
JHWH-1232	1	2 1/16	1 7/16	1 15/32	11/16	1 5/16	11/16	25/32
JHWH-1234	1 1/16	2 1/8	1 1/2	1 9/16	3/4	1 5/32	1 1/32	7/8
JHWH-1236	1 1/8	2 3/16	1 1/2	1 5/8	13/16	1 7/32	1 1/8	29/32
JHWH-1238	1 3/16	2 1/4	1 1/2	1 11/16	27/32	1 9/32	1 5/32	31/32
JHWH-1240	1 1/4	2 1/4	1 1/2	1 3/4	27/32	1 11/32	1 9/32	15/16
JHWH-1242	1 5/16	2 5/16	1 5/8	1 7/8	27/32	1 13/32	1 11/32	1
JHWH-1244	1 3/8	2 5/16	1 5/8	1 15/16	7/8	1 3/8	1 7/16	1
JHWH-1246	1 7/16	2 3/8	1 5/8	2	15/16	1 7/16	1 1/4	1
JHWH-1248	1 1/2	2 1/2	1 5/8	2 1/8	1	1 9/16	1 1/4	1 1/8
JHWH-1250	1 9/16	2 5/8	1 3/4	2 3/16	1 5/32	1 11/16	1 3/8	1 1/4
JHWH-1252	1 5/8	2 5/8	1 3/4	2 1/4	1 5/32	1 11/16	1 3/8	1 1/4
JHWH-1254	1 11/16	2 3/4	1 25/32	2 3/8	1 3/16	1 13/16	1 3/8	1 3/8
JHWH-1256	1 3/4	2 3/4	1 3/4	2 7/16	1 3/16	1 13/16	1 3/8	1 3/8
JHWH-1258	1 13/16	2 7/8	1 3/4	2 1/2	1 1/4	1 31/32	1 5/16	1 7/16
JHWH-1260	1 7/8	3	1 3/4	2 9/16	1 5/16	2 1/16	1 5/16	1 9/16
JHWH-1264	2	3 1/8	1 3/4	2 3/4	1 5/16	2 3/16	1 5/16	1 11/16
JHWH-1266	2 1/16	3 1/8	1 3/4	2 3/4	1 3/8	2 3/16	1 5/16	1 11/16
JHWH-1268	2 1/8	3 1/4	1 3/4	2 15/16	1 7/16	2 5/16	1 5/16	1 13/16
JHWH-1270	2 3/16	3 1/4	1 3/4	2 15/16	1 1/2	2 5/16	1 5/16	1 13/16
JHWH-1272	2 1/4	3 3/8	1 3/4	3 1/8	1 1/2	2 7/16	1 1/4	1 7/8
JHWH-1274	2 5/16	3 1/2	1 3/4	3 1/4	1 5/8	2 9/16	1 1/4	2
JHWH-1276	2 3/8	3 5/8	1 3/4	3 1/4	1 3/4	2 11/16	1 1/4	2 1/8

Fed. Spec: ANSI B107.110



JHWWSH-16TB

16 Piece 3/4" Drive Shallow 12-Point Socket Set with JHWTB-49 Tool Box

JHWWSH-16RC

16 Piece 3/4" Drive Shallow 12-Point Socket Set on Clip Rails

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWH-1228	7/8	JHWH-1236	1 1/8	JHWH-1246	1 7/16	JHWH-1256	1 3/4
JHWH-1230	15/16	JHWH-1240	1 1/4	JHWH-1248	1 1/2	JHWH-1258	1 13/16
JHWH-1232	1	JHWH-1242	1 5/16	JHWH-1252	1 5/8	JHWH-1260	1 7/8
JHWH-1234	1 1/16	JHWH-1244	1 3/8	JHWH-1254	1 11/16	JHWH-1264	2

JHWWSH-26RC

26 Piece 3/4" Drive Shallow 12-Point Socket Set on Clip Rails

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWH-1224	3/4	JHWH-1238	1 3/16	JHWH-1252	1 5/8	JHWH-1268	2 1/8
JHWH-1226	13/16	JHWH-1240	1 1/4	JHWH-1254	1 11/16	JHWH-1270	2 3/16
JHWH-1228	7/8	JHWH-1242	1 5/16	JHWH-1256	1 3/4	JHWH-1272	2 1/4
JHWH-1230	15/16	JHWH-1244	1 3/8	JHWH-1258	1 13/16	JHWH-1274	2 5/16
JHWH-1232	1	JHWH-1246	1 7/16	JHWH-1260	1 7/8	JHWH-1276	2 3/8
JHWH-1234	1 1/16	JHWH-1248	1 1/2	JHWH-1264	2		
JHWH-1236	1 1/8	JHWH-1250	1 9/16	JHWH-1266	2 1/16		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

Made in U.S.A.

WARNING

3/4" DRIVE DEEP SOCKETS, 6 POINT, SAE

JHWHD-640 JHWHD-628

High-Polished Chrome Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWHD-628	7/8	3 1/2	1 7/16	1 5/16	5/8	2 1/2	1 1/16	2 5/16
JHWHD-630	15/16	3 1/2	1 7/16	1 3/8	21/32	2 1/2	1 1/16	2 5/16
JHWHD-632	1	3 1/2	1 1/2	1 7/16	23/32	2 1/2	1 1/16	2 5/16
JHWHD-634	1 1/16	3 1/2	1 1/2	1 9/16	3/4	2 1/2	3/4	2 7/32
JHWHD-636	1 1/8	3 1/2	1 1/2	1 5/8	13/16	2 1/2	25/32	2 7/32
JHWHD-640	1 1/4	3 1/2	1 1/2	1 3/4	1	2 1/2	7/8	2 3/16
JHWHD-642	1 5/16	3 1/2	1 5/8	1 7/8	1	2 1/2	15/16	2 3/16
JHWHD-644	1 3/8	3 1/2	1 5/8	1 15/16	1	2 9/16	1 3/8	2 3/16
JHWHD-646	1 7/16	3 1/2	1 5/8	2	1	2 9/16	1 7/16	2 1/8
JHWHD-648	1 1/2	3 1/2	1 5/8	2 1/16	1 1/4	2 9/16	1 1/2	2 1/8
JHWHD-652	1 5/8	3 1/2	1 3/4	2 1/4	1 3/8	2 9/16	1 5/8	2 1/8

Fed. Spec: ANSI B107.110

JHWWSHD11HRC

JHWWSHD11HRC 11 Piece 3/4" Drive Deep 6 Point Socket Set on Clip Rail

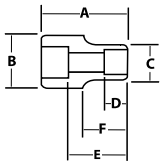
Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWHD-628	7/8	JHWHD-636	1 1/8	JHWHD-646	1 7/16
JHWHD-630	15/16	JHWHD-640	1 1/4	JHWHD-648	1 1/2
JHWHD-632	1	JHWHD-642	1 5/16	JHWHD-652	1 5/8
JHWHD-634	1 1/16	JHWHD-644	1 3/8		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners

Made in U.S.A.



3/4" DRIVE DEEP SOCKET, 6 POINT, METRIC

JHW33730 JHW33719

High-Polished Chrome Finish

Product Code	Size (MM)	A Overall Length (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)
JHW33719	19	3 35/64	1 19/64	1 5/32	1 1/64	1 3/16	45/64
JHW33722	22	3 35/64	1 27/64	1 17/64	1 1/64	1 3/16	45/64
JHW33723	23	3 35/64	1 27/64	1 5/16	1 1/64	1 3/16	45/64
JHW33724	24	3 35/64	1 27/64	1 11/32	1 1/64	1 3/16	45/64
JHW33727	27	3 35/64	1 27/64	1 1/2	1 7/64	1 3/16	15/16
JHW33730	30	3 35/64	1 27/64	1 21/32	1 7/64	1 3/16	1 1/16
JHW33732	32	3 35/64	1 27/64	1 47/64	1 7/64	1 3/16	1 9/64
JHW33735	35	3 35/64	1 1/2	1 57/64	1 3/16	1 7/64	1 17/64
JHW33736	36	3 35/64	1 1/2	1 31/32	1 3/16	1 7/64	1 19/64
JHW33738	38	3 35/64	1 1/2	2 1/32	1 11/32	15/16	1 3/8
JHW33741	41	3 35/64	1 37/64	2 13/64	1 11/32	15/16	1 1/2
JHW33746	46	3 35/64	1 21/32	2 7/16	1 11/32	15/16	1 21/32
JHW33750	50	3 35/64	1 21/32	2 43/64	1 27/64	15/16	1 21/32
JHW33755	55	3 15/16	1 49/64	2 29/32	1 1/2	25/32	1 11/16
JHW33760	60	3 61/64	1 49/64	3 5/32	1 37/64	5/8	1 49/64

JHW33932

JHW33932 15 piece 3/4" Drive Deep 6 Point Socket Set in Clip and Rails

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW33719	19	JHW33727	27	JHW33736	36	JHW33750	50
JHW33722	22	JHW33730	30	JHW33738	38	JHW33755	55
JHW33723	23	JHW33732	32	JHW33741	41	JHW33760	60
JHW33724	24	JHW33735	35	JHW33746	46		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners

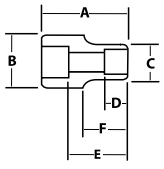
3/4" DRIVE SHALLOW SOCKETS, 12 POINT, METRIC

High-Polished Chrome Finish

		A	B	C	D	E		F
Product Code	Size (MM)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)
JHWHM-1219	19	2	7/16	1 1/8	9/16	1 1/32	11/16	13/16
JHWHM-1222	22	2	7/16	1 1/4	5/8	1 1/32	11/16	13/16
JHWHM-1223	23	2	1 7/16	1 11/32	5/8	1 1/32	3/4	9/16
JHWHM-1224	24	2	7/16	1 3/8	21/32	1 1/32	11/16	13/16
JHWHM-1225	25	2	1 7/16	1 7/16	2 3/32	1 1/32	3/4	2
JHWHM-1226	26	2	1 1/2	1 1/2	2 3/32	1 1/32	1 1/32	2
JHWHM-1227	27	2	1 1/2	1 9/16	3/4	1 1/32	1 1/16	11/16
JHWHM-1228	28	2	1 1/2	1 21/32	25/32	1 1/32	1-3/32	1-7/32
JHWHM-1230	30	2 7/32	1 1/2	1 5/8	13/16	1 7/32	1 3/16	27/32
JHWHM-1232	32	2 1/4	1 1/2	1 3/4	7/8	1 5/16	1 5/16	7/8
JHWHM-1235	35	2 5/16	1 5/8	1 15/16	29/32	1 13/32	1 7/16	7/8
JHWHM-1236	36	2 5/16	1 5/8	1 15/16	29/32	1 13/32	1 1/4	7/8
JHWHM-1238	38	2 1/2	1 5/8	2 1/16	1	1 19/32	1 9/16	1 1/16
JHWHM-1241	41	2 5/8	1 3/4	2 3/16	1 1/16	1 23/32	1 13/32	1 3/16
JHWHM-1242	42	2 1/2	1 3/4	2 9/32	1 1/16	1 1/2	1 5/8	1 21/32
JHWHM-1246	46	3 1/8	1 3/4	2 7/16	1 3/16	1 31/32	1 13/32	1 11/16
JHWHM-1250	50	3	1 3/4	2 5/8	1 5/16	2 3/32	1 13/32	1 13/32
JHWHM-1254	54	3 1/4	1 3/4	2 7/8	1 15/32	2 1/8	1 13/32	1 21/32
JHWHM-1255	55	3 1/4	1 3/4	2 29/32	1 15/32	2 11/32	1 13/32	1 21/32
JHWHM-1260	60	3 5/8	1 3/4	3 1/4	1 3/4	2 23/32	1 3/4	2 1/8

Fed. Spec: ANSI B107.110

JHWHM-1232



JHWMSH-15RC 15 Piece 3/4" Drive Shallow 12 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHWHM-1219	19	JHWHM-1230	30	JHWHM-1238	38	JHWHM-1254	54
JHWHM-1222	22	JHWHM-1232	32	JHWHM-1241	41	JHWHM-1255	55
JHWHM-1224	24	JHWHM-1235	35	JHWHM-1246	46	JHWHM-1260	60
JHWHM-1227	27	JHWHM-1236	36	JHWHM-1250	50		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

Made in U.S.A.

JHWMSH-15RC

WARNING

JHW38002

JHW38003

JHW38004

JHW38001

JHW38005

JHW38006

3/4" DRIVE IMPACT EXTENSIONS AND ACCESSORIES

Black Industrial Finish

Product Code	Description	Length (Inches)	Use RET RING®	Use O-Ring / Pin	Socket Retention
JHW38002	Impact Extension	7	JHW6-1XS	JHW6-1A / JHW6-2C	Through Hole and Pin
JHW38003	Impact Extension	10	JHW6-1XS	JHW6-1A / JHW6-2C	Through Hole and Pin
JHW38004	Impact Extension	13	JHW6-1XS	JHW6-1A / JHW6-2C	Through Hole and Pin
JHW38001	Impact Universal Joint	4 5/16	JHW6-1XS	JHW6-1A / JHW6-2C	Through Hole and Pin
JHW38005	1/2"M x 3/4"F Adapter	2 3/16	JHW6-1XS	JHW6-1A / JHW6-2C	Ball and Spring
JHW38006	1"M x 3/4"F Adapter	2 7/16	JHW6-1XS	JHW6-1A / JHW6-2C	Through Hole and Pin

Fed. Spec: ANSI B107.2

Features

- Specially heat treated for impact use to provide long life, safety, and durability
- Pin and o-ring or RET RING® (sold separately) secure tools onto impact wrench for safety and convenience
- Suitable for use with pneumatic and electric impact wrenches
- Drive end features pin retention hole and groove

3/4" DRIVE IMPACT RETAINING PINS AND RINGS

Black Industrial Finish

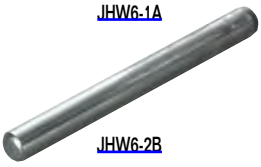
Product Code	Description	Diameter	Length	Application
JHW6-1A	Impact Retaining O-Ring	1 1/4	NA	Fits All Williams 3/4" Drive Sockets and Accessories
JHW6-2B	Impact Retaining Pin	3/16	1 1/4	Fits Williams Impact Sockets with "B" Dimension to 1 3/4"
JHW6-2C	Impact Retaining Pin	3/16	1 1/2	Fits Williams Impact Sockets with "B" Dimension 1 3/4" and Greater

Features

- Specially heat treated for impact use to provide long life, safety, and durability
- Suitable for use with pneumatic and electric impact wrenches
- For 3/4" drive impact tools with pin retention hole and groove

Made in U.S.A.

JHW6-1A


JHW6-2B

3/4" DRIVE RET RING® ONE-PIECE IMPACT RETAINING RINGS WITH CRUSH GAUGE

Black Industrial Finish

Product Code	Inside Dia. (In.)
JHW6-0XS	1 1/4"
JHW6-1XS	1 7/16"
JHW6-2XS	1 5/8"
JHW6-3XS	1 3/4"
JHW6-4XS	2
JHW6-5XS	2 1/8"
JHW6-6XS	2 1/4"

Features

- Fits all Williams 3/4" Drive Sockets and Accessories
- Crush Gage on the resin pin indicates when a socket is excessively worn and should be replaced
- Securely retains sockets and accessories to square drive of impact wrench
- For 3/4" drive impact tools with pin retention hole and groove
- Made of oil resistant material
- RET RING® is a trademark of FTL Enterprises, Inc.

Made in U.S.A.

JHW6-2XS

3/4" DRIVE BUDD® WHEEL IMPACT SOCKET, 6 POINT, SAE

Black Industrial Finish

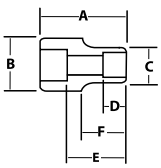
Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Uses RET RING® Number	Use O-Ring / Pin
JHW16-648BW	13/16 Square & 1 1/2 Hex	4	1 3/4	2 1/4	1 7/16	2 1/4	1 1/4	6-1X	6-1A / 6-2C

Fed. Spec: ANSI B107.2

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- 13/16" square opening threads stud into wheel
- 1-1/2" hex opening engages and tightens the wheel lug nut
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

Made in U.S.A.



JHW16-648BW

3/4" DRIVE SHALLOW IMPACT SOCKETS, 6 POINT, SAE

Black Industrial Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	F Bolt Clearance Diameter (Inches)	Nose Length (Inches)	Uses RET RING® Number	Use O-Ring / Pin
JHW6-618A	9/16	2	1 5/8	1	17/32	1 1/32	1/2	1	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6-620A	5/8	2	1 5/8	1 3/32	17/32	1 1/32	1/2	1	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6-622A	11/16	2	1 5/8	1 5/32	17/32	1 1/32	1/2	1	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6-624A	3/4	2	1 5/8	1 1/4	17/32	1 1/32	11/16	1	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6-626A	13/16	2	1 5/8	1 3/8	17/32	1 1/32	11/16	1	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6-628A	7/8	2	1 5/8	1 1/2	19/32	1 1/32	11/16	1	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6-630A	15/16	2	1 5/8	1 9/16	21/32	1 1/32	11/16	1	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6-632A	1	2	1 5/8	1 5/8	11/16	1 1/32	11/16	-	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6-634A	1 1/16	2	1 5/8	1 11/16	3/4	1 1/32	1 1/16	1 5/16	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6-636	1 1/8	2 1/8	1 5/8	1 3/4	3/4	1 5/32	1 1/8	1 7/16	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6-638	1 3/16	2 1/8	1 5/8	1 7/8	3/4	1 5/32	1 3/16	1 7/16	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6-640	1 1/4	2 1/8	1 3/4	2	13/16	1 5/32	1 1/4	1 7/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-642	1 5/16	2 1/8	1 3/4	2 1/32	7/8	1 5/32	1 5/16	1 7/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-644	1 3/8	2 1/4	1 3/4	2 1/8	7/8	1 9/32	1 3/8	1 9/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-646	1 7/16	2 1/4	1 3/4	2 3/16	7/8	1 9/32	1 7/16	1 9/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-648	1 1/2	2 1/4	1 3/4	2 1/4	15/16	1 9/32	1 1/2	1 9/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-650	1 9/16	2 3/8	1 3/4	2 11/32	15/16	1 13/32	1 9/16	1 11/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-652	1 5/8	2 3/8	1 3/4	2 13/32	1	1 13/32	1 5/8	1 11/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-654	1 11/16	2 9/16	1 3/4	2 15/32	1 1/32	1 19/32	1 7/16	1 7/8	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-656	1 3/4	2 9/16	1 3/4	2 17/32	1 1/32	1 19/32	1 3/4	1 7/8	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-658	1 13/16	2 5/8	1 3/4	2 19/32	1 1/8	1 21/32	1 13/16	1 15/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-660	1 7/8	2 3/4	1 3/4	2 5/8	1 1/8	1 13/16	1 7/16	2 1/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-662	1 15/16	2 3/4	1 3/4	2 3/4	1 1/8	1 3/4	1 7/16	2 1/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-664	2	2 7/8	1 3/4	2 13/16	1 1/8	1 13/16	1 7/16	2 3/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-666	2 1/16	2 7/8	1 3/4	2 7/8	1 3/16	1 13/16	1 7/16	2 3/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-670	2 3/16	3 3/16	1 3/4	3 1/16	1 5/16	2 1/16	2 3/16	2 1/2	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-672	2 1/4	3 3/16	1 3/4	3 1/8	1 3/8	2 5/32	1 27/32	2 1/2	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6-676	2 3/8	3 1/2	1 3/4	3 1/4	1 7/16	2 7/16	1 27/32	2 13/16	JHW6-1XS	JHW6-1A / JHW6-2C

Fed. Spec: ANSI B107.2

TOOLS @ HEIGHT DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW6-620A

JHWWS-6-10HA 10 Piece 3/4" Drive Shallow 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW6-654	1 11/16	JHW6-660	1 7/8	JHW6-666	2 1/16
JHW6-656	1 3/4	JHW6-662	1 15/16	JHW6-670	2 3/16
JHW6-658	1 13/16	JHW6-664	2	JHW6-672	2 1/4
				JHW6-676	2 3/8

JHWWS-6-14HA 14 Piece 3/4" Drive Shallow 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW6-624A	3/4	JHW6-632A	1	JHW6-640	1 1/4	JHW6-648	1 1/2
JHW6-626A	13/16	JHW6-634A	1 1/16	JHW6-642	1 5/16	JHW6-652	1 5/8
JHW6-628A	7/8	JHW6-636	1 1/8	JHW6-644	1 3/8		
JHW6-630A	15/16	JHW6-638	1 3/16	JHW6-646	1 7/16		

JHWWS-6-14HA

JHWWS-6-18TB 18 Piece 3/4" Drive Shallow 6 Point Impact Socket Set packed in Tool Box

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW6-628A	7/8	JHW6-640	1 1/4	6-656	1 3/4
JHW6-630A	15/16	JHW6-642	1 5/16	6-658	1 13/16
JHW6-632A	1"	JHW6-644	1 3/8	6-660	1 7/8
JHW6-634A	1 1/16	JHW6-646	1 7/16	6-664	2"
JHW6-636	1 1/8	JHW6-648	1 1/2	6-107	7" EXT
JHW6-638	1 3/16	JHW6-652	1 5/8	6-140B	U-JOINT
				JHWTB-6119B	TOOL BOX

JHWWS-6-18TB

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

Made in U.S.A.

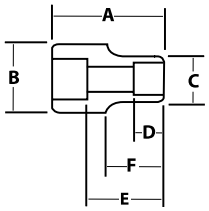
WARNING

TOOLS @ HEIGHT
DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW38444

JHW38430



JHW38925

3/4 " DRIVE SHALLOW IMPACT SOCKETS, 12 POINT, SAE

Black Industrial Finish

Product Code	Size (Inches)	A Overall Length (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW38420	5/8	2	1 1/2	1 1/8	5/8	/	1/2	7/8
JHW38422	11/16	2	1 1/2	1 1/8	5/8	/	1/2	7/8
JHW38424	3/4	2	1 1/2	1 1/8	5/8	/	5/8	7/8
JHW38426	13/16	2 1/16	1 1/2	1 1/4	3/4	/	3/4	15/16
JHW38428	7/8	2 1/16	1 1/2	1 5/16	3/4	/	3/4	15/16
JHW38430	15/16	2 1/16	1 1/2	1 7/16	3/4	/	7/8	15/16
JHW38432	1	2 1/16	1 1/2	1 1/2	3/4	/	7/8	/
JHW38434	1 1/16	2 1/16	1 1/2	1 1/2	3/4	/	15/16	/
JHW38436	1 1/8	2 1/16	1 5/8	1 5/8	3/4	/	1 1/16	/
JHW38438	1 3/16	2 1/16	1 3/4	1 3/4	3/4	/	1 1/16	/
JHW38440	1 1/4	2 1/16	1 3/4	1 13/16	3/4	/	1 3/16	15/16
JHW38442	1 5/16	2 1/4	1 3/4	1 13/16	7/8	/	1 3/16	15/16
JHW38444	1 3/8	2 1/4	1 3/4	2	7/8	/	1 1/4	15/16
JHW38446	1 7/16	2 1/4	1 3/4	2	7/8	/	1 3/8	15/16
JHW38448	1 1/2	2 1/4	1 3/4	2 1/16	15/16	/	1 3/8	15/16
JHW38450	1 9/16	2 7/16	1 3/4	2 1/4	15/16	/	1 1/2	1
JHW38452	1 5/8	2 7/16	1 3/4	2 1/4	15/16	/	/	1
JHW38454	1 11/16	2 7/16	1 3/4	2 1/2	1 1/16	/	/	1
JHW38456	1 3/4	2 7/16	1 3/4	2 1/2	1 1/16	/	/	1
JHW38458	1 13/16	2 5/8	1 3/4	2 5/8	1 1/16	/	/	1
JHW38460	1 7/8	2 5/8	1 3/4	2 5/8	1 1/16	/	/	1
JHW38462	1 15/16	2 3/4	1 3/4	2 3/4	1 5/16	/	/	1
JHW38464	2	2 13/16	2 1/8	2 3/4	1 5/16	/	/	1
JHW38466	2 1/16	2 13/16	2 1/8	3	1 5/16	/	/	1
JHW38468	2 1/8	2 13/16	2 1/8	3	1 5/16	/	/	1
JHW38476	2 3/8	3	2 1/8	3 5/16	1 1/2	/	/	1 1/16

JHW38925

9 piece 3/4" Drive Impact Shallow 12 Point, SAE Socket Set on Clip Rails

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW38420	5/8	JHW38426	13/16	JHW38432	1
JHW38422	11/16	JHW38428	7/8	JHW38434	1 1/16
JHW38424	3/4	JHW38430	15/16	JHW38436	1 1/8

JHW38926

17 piece 3/4" Drive Impact Shallow 12 Point, SAE Socket Set on Clip Rails

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW38438	1 3/16	JHW38446	1 7/16	JHW38454	1 11/16	JHW38462	1 15/16
JHW38440	1 1/4	JHW38448	1 1/2	JHW38456	1 3/4	JHW38464	2
JHW38442	1 5/16	JHW38450	1 9/16	JHW38458	1 13/16	JHW38466	2 1/16
JHW38444	1 3/8	JHW38452	1 5/8	JHW38460	1 7/8	JHW38468	2 1/8
						JHW38476	2 3/8

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 or 12 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

3/4" DRIVE DEEP IMPACT SOCKETS, 6 POINT, SAE

Black Industrial Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	F Bolt Clearance Diameter (Inches)	Nose Length (Inches)	Uses RET RING® Number	Use O-Ring / Pin
JHW16-624	3/4	3	1 5/8	1 1/4	9/16	2 1/32	9/16	3/4	JHW6-1XS	JHW6-1A / JHW6-2B
JHW16-626	13/16	3	1 5/8	1 7/16	5/8	2 1/32	9/16	3/4	JHW6-1XS	JHW6-1A / JHW6-2B
JHW16-628	7/8	3	1 5/8	1 7/16	5/8	2 1/32	5/8	3/4	JHW6-1XS	JHW6-1A / JHW6-2B
JHW16-630	15/16	3	1 5/8	1 5/8	5/8	2 1/32	5/8	-	JHW6-1XS	JHW6-1A / JHW6-2B
JHW16-632	1	3	1 5/8	1 5/8	11/16	2 1/32	21/32	-	JHW6-1XS	JHW6-1A / JHW6-2B
JHW16-634	1 1/16	3	1 5/8	1 11/16	11/16	2 1/32	3/4	2 5/16	JHW6-1XS	JHW6-1A / JHW6-2B
JHW16-636	1 1/8	3	1 5/8	1 3/4	3/4	2 1/32	13/16	2 5/16	JHW6-1XS	JHW6-1A / JHW6-2B
JHW16-638	1 3/16	3 3/16	1 3/4	1 15/16	3/4	2 7/32	1 3/16	2 1/2	JHW6-1XS	JHW6-1A / JHW6-2C
JHW16-640	1 1/4	3 1/4	1 3/4	1 15/16	7/8	2 9/32	1 1/4	2 9/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW16-642	1 5/16	3 1/4	1 3/4	2	7/8	2 9/32	1 9/32	2 9/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW16-644	1 3/8	3 1/4	1 3/4	2 1/8	7/8	2 9/32	1 3/8	2 9/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW16-646	1 7/16	3 1/2	1 3/4	2 1/8	7/8	2 17/32	1 13/32	2 13/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW16-648	1 1/2	3 1/2	1 3/4	2 1/4	15/16	2 17/32	1 1/2	2 13/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW16-650	1 9/16	3 1/2	1 3/4	2 5/16	15/16	2 17/32	1 9/16	2 13/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW16-652	1 5/8	3 1/2	1 3/4	2 7/16	15/16	2 17/32	1 5/8	2 13/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW16-654	1 11/16	3 1/2	1 3/4	2 1/2	1	2 17/32	1 11/16	2 13/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW16-656	1 3/4	3 1/2	1 3/4	2 1/2	1	2 17/32	1 3/4	2 13/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW16-658	1 13/16	3 3/4	1 3/4	2 5/8	1 1/16	2 3/4	1 13/16	2 25/32	JHW6-1XS	JHW6-1A / JHW6-2C
JHW16-660	1 7/8	3 3/4	1 3/4	2 11/16	1 1/8	2 3/4	1 7/8	2 25/32	JHW6-1XS	JHW6-1A / JHW6-2C
JHW16-664	2	3 3/4	1 3/4	2 3/16	1 1/8	2 3/4	2	2 25/32	JHW6-1XS	JHW6-1A / JHW6-2C

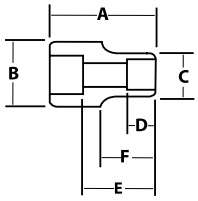
Fed. Spec: ANSI B107.2

JHWWS-16-7H

7 Piece 3/4" Drive Impact Deep 6 Point Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW16-650	1 9/16	JHW16-658	1 13/16
JHW16-652	1 5/8	JHW16-660	1 7/8
JHW16-654	1 11/16	JHW16-664	2
JHW16-656	1 3/4		



TOOLS @ HEIGHT DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHWWS-16-8H

8 Piece 3/4" Drive Deep 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW16-628	7/8	JHW16-636	1 1/8
JHW16-630	15/16	JHW16-640	1 1/4
JHW16-632	1	JHW16-642	1 5/16
JHW16-634	1 1/16	JHW16-648	1 1/2

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

JHW16-624 JHW16-632

Made in U.S.A.

JHWWS-16-8H

WARNING

TOOLS @ HEIGHT
DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW6M-1250

JHW6M-1219

3/4" DRIVE SHALLOW IMPACT SOCKETS, 12 POINT, METRIC

Black Industrial Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	F Bolt Clearance Diameter (Inches)	F Nose Length (Inches)	Uses RET RING® Number	Use O-Ring / Pin
JHW6M-1219	19	2	1 5/8	1 1/4	1/2	1	2/3	1	JHW6-1XS	JHW6-1A/JHW6-2B
JHW6M-1220	20	2	1 5/8	1 3/8	1/2	1	2/3	1	JHW6-1XS	JHW6-1A/JHW6-2B
JHW6M-1221	21	2	1 5/8	1 3/8	1/2	1	2/3	1	JHW6-1XS	JHW6-1A/JHW6-2B
JHW6M-1222	22	2	1 5/8	1 1/2	1/2	1	2/3	1	JHW6-1XS	JHW6-1A/JHW6-2B
JHW6M-1223	23	2	1 5/8	1 1/2	5/8	1	2/3	1	JHW6-1XS	JHW6-1A/JHW6-2B
JHW6M-1224	24	2	1 5/8	1 1/2	5/8	1	3/4	1	JHW6-1XS	JHW6-1A/JHW6-2B
JHW6M-1225	25	2	1 5/8	1 1/2	11/16	1	3/4	1	JHW6-1XS	JHW6-1A/JHW6-2B
JHW6M-1226	26	2	1 5/8	1 1/2	11/16	1	3/4	1	JHW6-1XS	JHW6-1A/JHW6-2B
JHW6M-1227	27	2	1 5/8	1 5/8	11/16	1	1	-	JHW6-1XS	JHW6-1A/JHW6-2B
JHW6M-1228	28	2 1/4	1 5/8	1 3/4	11/16	1 3/8	1	-	JHW6-1XS	JHW6-1A/JHW6-2B
JHW6M-1229	29	2 1/4	1 5/8	1 3/4	11/16	1 3/8	1	-	JHW6-1XS	JHW6-1A/JHW6-2B
JHW6M-1230	30	2 1/4	1 5/8	1 3/4	3/4	1 3/8	1	-	JHW6-1XS	JHW6-1A/JHW6-2B
JHW6M-1231	31	2 1/4	1 5/8	2	3/4	1 1/4	1 1/4	-	JHW6-1XS	JHW6-1A/JHW6-2B
JHW6M-1232	32	2 1/4	1 3/4	2	13/16	1 1/4	1 1/4	-	JHW6-1XS	JHW6-1A/JHW6-2C
JHW6M-1233	33	2 1/4	1 3/4	2	13/16	1 1/4	1 1/4	-	JHW6-1XS	JHW6-1A/JHW6-2C
JHW6M-1234	34	2 1/4	1 3/4	2	7/8	1 1/4	1 1/4	-	JHW6-1XS	JHW6-1A/JHW6-2C
JHW6M-1235	35	2 1/4	1 3/4	2 1/8	7/8	1 1/4	1 1/4	-	JHW6-1XS	JHW6-1A/JHW6-2C
JHW6M-1236	36	2 1/4	1 3/4	2 1/8	7/8	1 1/4	1 1/2	-	JHW6-1XS	JHW6-1A/JHW6-2C
JHW6M-1238	38	2 1/4	1 3/4	2 3/16	1	1 1/4	1 1/2	-	JHW6-1XS	JHW6-1A/JHW6-2C
JHW6M-1240	40	2 1/2	1 3/4	2 3/8	1 1/8	1 7/16	1 1/2	-	JHW6-1XS	JHW6-1A/JHW6-2C
JHW6M-1241	41	2 1/2	1 3/4	2 3/8	1 1/8	1 7/16	1 1/2	-	JHW6-1XS	JHW6-1A/JHW6-2C
JHW6M-1242	42	2 1/2	1 3/4	2 3/8	1 1/8	1 3/8	1 1/2	-	JHW6-1XS	JHW6-1A/JHW6-2C
JHW6M-1243	43	2 1/2	1 3/4	2 1/2	1 1/8	1 3/8	1 3/4	-	JHW6-1XS	JHW6-1A/JHW6-2C
JHW6M-1244	44	2 1/2	1 3/4	2 1/2	1 1/8	1 3/8	1 3/4	-	JHW6-1XS	JHW6-1A/JHW6-2C
JHW6M-1246	46	2 3/4	1 3/4	2 5/8	1 1/8	1 1/2	1 3/4	-	JHW6-1XS	JHW6-1A/JHW6-2C
JHW6M-1250	50	2 3/4	1 3/4	2 5/8	1 1/8	1 1/2	2	-	JHW6-1XS	JHW6-1A/JHW6-2C

JHW6M-617A

3/4" DRIVE SHALLOW IMPACT SOCKETS, 6 POINT, METRIC

Black Industrial Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	F Bolt Clearance Diameter (Inches)	F Nose Length (Inches)	Uses RET RING® Number	Use O-Ring / Pin
JHW6M-617A	17	2	1 5/8	1 5/32	17/32	1 1/32	1/2	1	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6M-619A	19	2	1 5/8	1 1/4	17/32	1 1/32	11/16	1	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6M-620A	20	2	1 5/8	1 3/8	35/64	1 1/32	11/16	1	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6M-622A	22	2	1 5/8	1 1/2	19/32	1 1/32	11/16	1	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6M-624A	24	2	1 5/8	1 35/64	11/32	1 1/32	11/16	1	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6M-627A	27	2	1 5/8	1 11/16	3/4	1 1/32	1 1/16	1 5/16	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6M-630	30	2 3/32	1 5/8	1 27/32	47/64	1 1/8	47/64	1 13/32	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6M-631	31	2 1/8	1 5/8	1 15/16	3/4	1 3/16	1 7/32	1 7/16	JHW6-1XS	JHW6-1A / JHW6-2B
JHW6M-632	32	2 1/8	1 3/4	2	13/16	1 3/16	1 1/4	1 7/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6M-634	34	2 1/8	1 3/4	2	7/8	1 3/16	1 21/64	1 7/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6M-635	35	2 1/4	1 3/4	2 1/8	7/8	1 5/16	1 3/8	1 9/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6M-636	36	2 1/4	1 3/4	2 1/8	7/8	1 5/16	1 13/32	1 9/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6M-638	38	2 1/4	1 3/4	2 1/4	15/16	1 5/16	1 1/2	1 9/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6M-641	41	2 5/8	1 3/4	2 13/32	1 1/8	1 11/16	1 39/64	1 15/16	JHW6-1XS	JHW6-1A / JHW6-2C
JHW6M-646	46	2 5/8	1 3/4	2 19/32	1 1/8	1 21/32	1 13/16	1 15/16	JHW6-1XS	JHW6-1A / JHW6-2C

JHWMS-6-8H 8 Piece 3/4" Drive Shallow 6 Point Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW6M-619A	19	JHW6M-627A	27	JHW6M-636	36
JHW6M-622A	22	JHW6M-630	30	JHW6M-641	41
JHW6M-624A	24	JHW6M-632	32		

Made in U.S.A.

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 and 12 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability
- Drive end features pin retention hole and groove

3/4" DRIVE ONE PIECE IMPACT HEX BIT DRIVER, SAE

Black Industrial Finish

Product Code	Hex Size (Inches)	A OAL	B Drive End Diameter	F Nose Length	Uses RET RING® Number	Use O-Ring / Pin
JHW38216	1/2	3 1/2	1 3/4	3/4	JHW6-1XS	JHW6-1A / JHW6-2C
JHW38218	9/16	3 1/2	1 3/4	3/4	JHW6-1XS	JHW6-1A / JHW6-2C
JHW38220	5/8	3 1/2	1 3/4	3/4	JHW6-1XS	JHW6-1A / JHW6-2C
JHW38224	3/4	3 1/2	1 3/4	3/4	JHW6-1XS	JHW6-1A / JHW6-2C
JHW38226	13/16	3 1/2	1 3/4	3/4	JHW6-1XS	JHW6-1A / JHW6-2C
JHW38228	7/8	3 1/2	1 3/4	3/4	JHW6-1XS	JHW6-1A / JHW6-2C
JHW38232	1	3 1/2	1 3/4	3/4	JHW6-1XS	JHW6-1A / JHW6-2C
JHW38236	1 1/8	3 1/2	1 3/4	3/4	JHW6-1XS	JHW6-1A / JHW6-2C
JHW38240	1 1/4	3 1/2	1 3/4	3/4	JHW6-1XS	JHW6-1A / JHW6-2C

TOOLS @ HEIGHT DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW38240 JHW38216

JHW38932

5 Piece 3/4" Drive Hex-Driver Impact Socket Set on Clip Rail

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW38220	5/8	JHW38228	7/8
JHW38224	3/4	JHW38232	1
JHW38226	13/16		

JHW38903

9 Piece 3/4" Drive Hex-Driver Impact Socket Set with 50085 Metal Box

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)
JHW38216	1/2	JHW38228	7/8
JHW38218	9/16	JHW38232	1
JHW38220	5/8	JHW38236	1 1/8
JHW38224	3/4	JHW38240	1 1/4
JHW38226	13/16		

JHW38932

Features

- One-piece design maximizes strength and reduces breakage
- Chamfered ends provide easy engagement of the drive tool and fastener
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability
- Drive end features pin retention hole and groove

JHW38903

WARNING

TOOLS @ HEIGHT
DROP PREVENTION SYSTEM

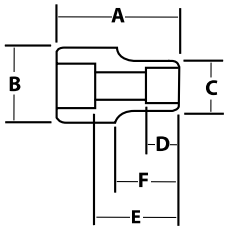
Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

3/4" DRIVE ONE PIECE IMPACT HEX BIT DRIVER, METRIC

Black Industrial Finish

Product Code	Hex Size (MM)	Overall Length (Inches)	Drive End Diameter (Inches)	Nose Length	Uses RET Ring Number	use O-Ring/Pin
JHW35810	10	3 ½	1 ¾	¾	JHW6-1XS	JHW6-1A/JHW6-2C
JHW35812	12	3 ½	1 ¾	¾	JHW6-1XS	JHW6-1A/JHW6-2C
JHW35814	14	3 ½	1 ¾	¾	JHW6-1XS	JHW6-1A/JHW6-2C
JHW35817	17	3 ½	1 ¾	¾	JHW6-1XS	JHW6-1A/JHW6-2C
JHW35819	19	3 ½	1 ¾	¾	JHW6-1XS	JHW6-1A/JHW6-2C
JHW35821	21	3 ½	1 ¾	¾	JHW6-1XS	JHW6-1A/JHW6-2C
JHW35824	24	3 ½	1 ¾	¾	JHW6-1XS	JHW6-1A/JHW6-2C
JHW35827	27	3 ½	1 ¾	¾	JHW6-1XS	JHW6-1A/JHW6-2C
JHW35830	30	3 ½	1 ¾	¾	JHW6-1XS	JHW6-1A/JHW6-2C
JHW35832	32	3 ½	1 ¾	¾	JHW6-1XS	JHW6-1A/JHW6-2C

Fed. Spec: ANSI B107.2



JHW38936

10 Piece 3/4" Drive One Piece Impact Hex Bit Drivers, Metric

Contents Include:

Product Code	Size (MM)	Product Code	Size (MM)	Product Code	Size (MM)
JHW35810	10	JHW35819	19	JHW35830	30
JHW35812	12	JHW35821	21	JHW35832	32
JHW35814	14	JHW35824	24		
JHW35817	17	JHW35827	27		

JHW35830

JHW35812

JHW38936

27 PIECE 1" DRIVE SOCKET AND DRIVE TOOL SET

12 Point SAE, with Metal Box

Product Code	Description
JHWWSX-28TB	27 Piece Tool Set with JHWTB-12 Metal Tool Box
JHWWSX-28	27 Piece Tool Set Only

Contents Include:

Drive Tools:

Product Code	Description
JHWX-20	20" Sliding T-Handle/Head
JHWX-41C	34 3/16" Flex Handle
JHWX-51B	20" Ratchet
JHWX-110	8" Extension
JHWX-115	16" Extension

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWX-1234	1 1/16
JHWX-1236	1 1/8
JHWX-1240	1 1/4
JHWX-1242	1 5/16
JHWX-1244	1 3/8
JHWX-1246	1 7/16
JHWX-1248	1 1/2

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWX-1252	1 5/8
JHWX-1258	1 13/16
JHWX-1260	1 7/8
JHWX-1264	2
JHWX-1268	2 1/8
JHWX-1270	2 3/16
JHWX-1272	2 1/4
JHWX-1276	2 3/8
JHWX-1280	2 1/2
JHWX-1282	2 9/16
JHWX-1284	2 5/8
JHWX-1288	2 3/4
JHWX-1294	2 15/16
JHWX-1296	3
JHWX-12100	3 1/8

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

JHWWSX-28TB

19 PIECE 1" DRIVE SOCKET AND DRIVE TOOL SET

12 Point SAE, with Metal Box

Product Code	Description
JHWWSX-21TB	19 Piece Tool Set with JHWTB-12 Metal Tool Box
JHWWSX-21	19 Piece Tool Set Only

Contents Include:

Drive Tools:

Product Code	Description
JHWX-20	20" Sliding T-Handle / Head
JHWX-41C	34 3/16" Flex Handle
JHWX-51B	20" Ratchet
JHWX-110	8" Extension
JHWX-115	16" Extension

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWX-1248	1 1/2
JHWX-1252	1 5/8
JHWX-1258	1 13/16

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWX-1260	1 7/8
JHWX-1264	2
JHWX-1270	2 3/16
JHWX-1272	2 1/4
JHWX-1276	2 3/8
JHWX-1280	2 1/2
JHWX-1282	2 9/16
JHWX-1284	2 5/8
JHWX-1288	2 3/4
JHWX-1294	2 15/16
JHWX-1296	3

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

JHWWSX-21TB

WARNING

JHWWSX-20TB

19 PIECE 1" DRIVE SOCKET AND DRIVE TOOL SET

12 Point SAE, with Metal Box

Product Code	Description
JHWWSX-20TB	19 Piece Tool Set with JHWTB-12 Metal Tool Box
JHWWSX-20	19 Piece Tool Set Only

Contents Include:

Drive Tools:

Product Code	Description
JHWX-20	20" Sliding T-Handle/Head
JHWX-41C	34 3/16" Flex Handle
JHWX-51B	20" Ratchet
JHWX-110	8" Extension
JHWX-115	16" Extension

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWX-1234	1 1/16
JHWX-1236	1 1/8
JHWX-1240	1 1/4

Shallow 12-Point Sockets

Product Code	Size (Inches)
JHWX-1242	1 5/16
JHWX-1244	1 3/8
JHWX-1246	1 7/16
JHWX-1248	1 1/2
JHWX-1252	1 5/8
JHWX-1258	1 13/16
JHWX-1260	1 7/8
JHWX-1264	2
JHWX-1270	2 3/16
JHWX-1272	2 1/4
JHWX-1276	2 3/8

Features

- All tools are professional quality, made of high-grade chrome vanadium steel
- Sockets feature SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Metal tool box made for years of rugged use

Made in U.S.A.

JHWX-51B

1" DRIVE RATCHETS

Integrated Handle, Chrome Finish

Product Code	Description	Length (Inches)	Number of Teeth
JHWX-51B	Chrome Ratchet	20 1/8	24
JHWX-52EHRK	Repair Kit for JHWX-51B		

Fed. Spec: ANSI B107.10M

Features

- Forged one-piece ratchet provide strength and safety for industrial applications
- Smooth comfort-grip handle permits all-day use without gloves
- 24 tooth gear with 15 degree of engagement allows engagement in tight working areas
- Chrome finish with mirror-like exterior can be easily cleaned after each use
- Single Pawl ratchet design:
  1) Designed for tighter tolerances between pawl and gear which reduces metal fatigue and slippage under load
  2) Does not require as many working parts, reducing possible breakage and parts to repair
- Easy access reverse lever allows user to change working direction quickly and easily with only one hand
- Spring and plunger socket retention

Made in U.S.A.

1" DRIVE REMOVABLE-HANDLE RATCHETS

Knurled Handle, Chrome Finish

Complete Ratchet

Product Code	Description	Length (Inches)	Number of Teeth
JHWX-52A1	Ratchet with 36" Handle	41	24

Components

Product Code	Description	Length (Inches)	Number of Teeth
JHWX-52	Ratchet Head Only	7 13/16	24
JHWX-52H36	Handle Only	36	24
JHWX-52RK	Repair Kit		

Note: Head Bore and Handle End Diameter: 1-7/64"

Fed. Spec: ANSI B107.10M

Features

- 24 teeth action provides an 15° ratcheting angle
- Shift lever reverses action instantly
- Dual socket retention, with both ball and plunger on male drive for versatility
- Removable handle makes the tool more versatile, and storage easier
- Knurled handle provides a non-slip grip
- Chrome finish models provides increased protection from rust and corrosion
- Our most rugged, high torque capacity ratchet

Made in U.S.A.

JHWX-52

JHWX-52A1

JHWX-52H36

1" DRIVE HANDLES

Chrome and Black Industrial Finish

Product Code	Description	Length (Inches)	Finish
JHWX-41C	Flex Handle Breaker Bar, Knurled Grip	34 3/16	Chrome
JHWX-41CB	Flex Handle Breaker Bar, Knurled Grip	34 3/16	Black Industrial
JHWX-20	Sliding T-Handle	20	Chrome

Sliding T-Handle Components

Product Code	Description	Length (Inches)	Finish
JHWX-20B	Handle	20	Chrome
JHWX-20C	Sliding Head	1 15/16	Chrome

Fed. Spec: ANSI B107.10M

Features

- Chrome plating provides increased protection from rust and corrosion
- Drive handles provide extra leverage with greater strength than ratchets
- Square drive slides on T-Handles for versatility
- Flex handle flex drive swivels 110° in either direction
- Spring and plunger socket retention

Made in U.S.A.

JHWX-41C

JHWX-41CB

JHWX-20

1" DRIVE EXTENSIONS

Chrome Finish

Product Code	Length (Inches)
JHWX-110	8
JHWX-115	16

Fed. Spec: ANSI B107.10M

Features

- Chrome plating provides increased protection from rust and corrosion
- Ball and spring socket retention
- Hole in wall of drive end accommodates plunger for firm tool retention

Made in U.S.A.

JHWX-110

JHWX-115

⚠WARNING

1" DRIVE SHALLOW 12 POINT SOCKETS, SAE

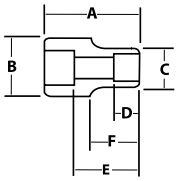
High-Polished Chrome Finish

JHWX-1234 JHWX-1244

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHWX-1234	1 1/16	2 1/4	2	1 5/8	3/4	1 1/16	13/16	7/8
JHWX-1236	1 1/8	2 1/4	2	1 3/4	3/4	1 1/16	13/16	7/8
JHWX-1240	1 1/4	2 3/8	2	1 7/8	3/4	1 1/8	13/16	7/8
JHWX-1242	1 5/16	2 1/2	2	2 1/16	13/16	1 9/32	15/16	1 9/16
JHWX-1244	1 3/8	2 1/2	2	2 1/8	7/8	1 11/32	1 13/32	1 9/16
JHWX-1246	1 7/16	2 3/4	2	2 3/16	1	1 15/32	1 1/2	1 11/16
JHWX-1248	1 1/2	2 3/4	2	2 1/4	1	1 19/32	1 9/16	1 13/16
JHWX-1252	1 5/8	2 7/8	2	2 3/8	1 1/8	1 3/4	1 11/16	1 15/16
JHWX-1254	1 11/16	2 7/8	2	2 3/8	1 3/16	1 9/16	1 3/4	1 15/16
JHWX-1256	1 3/4	3	2	2 9/16	1 1/4	1 27/32	1 13/16	2 1/16
JHWX-1258	1 13/16	3 1/8	2 1/8	2 5/8	1 1/4	1 31/32	1 7/16	2 3/16
JHWX-1260	1 7/8	3 1/4	2 1/8	2 3/4	1 7/16	2 3/32	1 7/16	2 5/16
JHWX-1264	2	3 3/8	2 1/8	2 15/16	1 1/2	2 1/4	1 7/16	2 7/16
JHWX-1268	2 1/8	3 1/2	2 1/4	3 1/8	1 1/2	2 11/32	1 7/16	2 9/16
JHWX-1270	2 3/16	3 5/8	2 1/4	3 1/8	1 17/32	2 15/32	2 1/4	2 11/16
JHWX-1272	2 1/4	3 3/4	2 1/4	3 1/4	1 5/8	2 5/8	2 11/32	2 23/32
JHWX-1276	2 3/8	3 7/8	2 1/4	3 3/8	1 5/8	2 3/4	2 3/8	2 13/16
JHWX-1280	2 1/2	4 1/8	2 1/4	3 1/2	1 3/4	2 31/32	2 1/2	3 1/16
JHWX-1282	2 9/16	4 1/8	2 1/4	3 9/16	1 13/16	2 31/32	2 9/16	3 3/16
JHWX-1284	2 5/8	4 1/4	2 1/4	3 5/8	1 7/8	3 3/32	2 5/8	3 1/8
JHWX-1288	2 3/4	4 1/2	2 1/4	3 3/4	2	3 3/8	2 3/4	3 9/16
JHWX-1294	2 15/16	4 27/32	2 1/4	4	2 1/8	3 23/32	2 15/16	3 25/32
JHWX-1296	3	4 7/8	2 1/4	4 1/8	2 1/8	3 3/4	3	3 27/32
JHWX-12100	3 1/8	4 31/32	2 1/4	4 1/4	2 1/8	3 27/32	3 1/8	3 29/32

Fed. Spec: ANSI B107.1

JHWWSX-17



JHWWSX-17 17 Piece 1" Drive Shallow 12-Point Socket Set

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHWX-1234	1 1/16	JHWX-1248	1 1/2	JHWX-1264	2
JHWX-1236	1 1/8	JHWX-1252	1 5/8	JHWX-1268	2 1/8
JHWX-1240	1 1/4	JHWX-1254	1 11/16	JHWX-1270	2 3/16
JHWX-1242	1 5/16	JHWX-1256	1 3/4	JHWX-1272	2 1/4
JHWX-1244	1 3/8	JHWX-1258	1 13/16	JHWX-1276	2 3/8
JHWX-1246	1 7/16	JHWX-1260	1 7/8		

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for quick engagement on both 6 and 12 point fasteners

Made in U.S.A.

1" DRIVE IMPACT EXTENSIONS AND ACCESSORIES

Black Industrial Finish

JHW7-107

JHW7-140B

JHW7-8

Product Code	Description	Length (Inches)	Use RET RING®	Use O-Ring / Pin	Socket Retention
JHW7-107	Impact Extension	7 1/4	JHW7-2XS	JHW7-1B / JHW7-2D	Through Hole and Pin
JHW7-113	Impact Extension	13	JHW7-2XS	JHW7-1B / JHW7-2D	Through Hole and Pin
JHW7-140B	Impact Universal Joint	4 1/2	JHW7-3XS	JHW7-1B / JHW7-2D	Through Hole and Pin
JHW7-6	3/4"M x 1"F Adapter	3	JHW7-2XS	JHW7-1B / JHW7-2D	Through Hole and Pin
JHW7-8	1 1/2"M x 1"F Adapter	3 3/8	JHW7-2XS	JHW7-1B / JHW7-2D	Through Hole and Pin

Fed. Spec: ANSI B107.2

Features

- Specially heat treated for impact use to provide long life, safety, and durability
- Pin and o-ring or RET RING® (sold separately) secure tools onto impact wrench for safety and convenience
- Universal joint provides 55° range of motion
- Suitable for use with pneumatic and electric impact wrenches
- Drive end features pin retention hole and groove

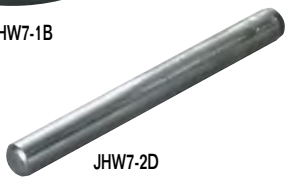
Made in U.S.A.

1" DRIVE IMPACT RETAINING PINS AND RINGS

Product Code	Description	Diameter	Length	Application
JHW7-1B	Impact Retaining O-Ring	2	NA	Fits Williams Impact Tools with "B" Dimension to 2 3/8"
JHW7-2D	Impact Retaining Pin	3/16	1 3/4	Fits Williams Impact Tools with "B" Dimension to 2 3/8"
JHW7-1C	Impact Retaining O-Ring	3 1/4	NA	Fits Williams Impact Tools with "B" Dimension of 3 1/4"
JHW7-2F	Impact Retaining Pin	3/16	2 7/8	Fits Williams Impact Tools with "B" Dimension of 3 1/4"

Features
- Specially heat treated for impact use to provide long life, safety, and durability
- Suitable for use with pneumatic and electric impact wrenches
- For 1" Drive impact tools with pin retention hole and groove

JHW7-1B



JHW7-2D

1" DRIVE RET RING® ONE-PIECE IMPACT RETAINING RINGS WITH CRUSH GAUGE

Product Code	Groove Diameter (Inches)	Application
JHW7-1XS	1 3/4	Fits Competitive Impact Sockets
JHW7-2XS	2	Fits Williams 1" Drive Tools with "B" Dimension of 2 1/8" and 2 1/4"
JHW7-3XS	2 1/8	Fits Williams 1" Drive Tools with "B" Dimension of 2 3/8"
JHW7-4XS	2 1/4	Fits Competitive Impact Sockets
JHW7-5XS	2 1/2	Fits Competitive Impact Sockets
JHW7-6XS	2 5/8	Fits Competitive Impact Sockets

Features
- Fits all Williams 1" Drive Sockets and Accessories
- Crush Gage on the resin pin indicates when a socket is excessively worn and should be replaced
- Securely retains sockets and accessories to square drive of impact wrench
- For 1" drive impact tools with pin retention hole and groove
- Made of oil resistant material
- RET RING® is a trademark of FTL Enterprises, Inc.

Made in U.S.A.

JHW7-1XS

1" DRIVE BUDD® WHEEL IMPACT SOCKET, 6 POINT, SAE

Black Industrial Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)
JHW17-648BW	13/16 Square / 1 1/2 Hex	4	1 3/4	2 1/4	1 7/16	2 1/4	1 1/4

Fed. Spec: ANSI B107.2

Features
- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- 13/16" square opening threads stud into wheel
- 1-1/2" hex opening engages and tightens the wheel lug nut
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

Made in U.S.A.

JHW17-648BW

19 PIECE 1" DRIVE IMPACT SOCKET SET

6 Point Shallow SAE Set in Tool Box

Product Code	Description
JHWWS-7-19TB	19 Piece 1" Drive Shallow 6 Point Impact Socket Set in Tool Box

Contents Include:

Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)	Product Code	Size (Inches)
JHW7-648	1 1/2	JHW7-668	2 1/8	JHW7-684	2 5/8	JHW7-6104	3 1/4
JHW7-652	1 5/8	JHW7-672	2 1/4	JHW7-688	2 3/4	JHW7-6112	3 1/2
JHW7-656	1 3/4	JHW7-676	2 3/8	JHW7-692	2 7/8	JHW7-107	7 3/8" EXT
JHW7-660	1 7/8	JHW7-680	2 1/2	JHW7-696	3	JHW7-140B	U-Joint
JHW7-664	2	JHW7-682	2 9/16	JHW7-6100	3 1/8	JHWTB-6124B	Tool Box

Features
- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

Made in U.S.A.

JHWWS-7-19TB

WARNING

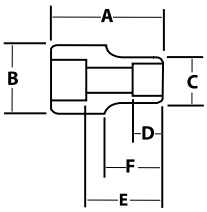
TOOLS @ HEIGHT
DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

1" DRIVE SHALLOW IMPACT SOCKETS, 6 POINT, SAE

Black Industrial Finish

JHW7-654



Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Dia. (Inches)	F Nose Length (Inches)	Uses RET RING® Number	Use O-Ring / Pin
JHW7-624	3/4	2 1/8	2 1/8	1 7/16	11/16	15/16	3/4	7/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7-626	13/16	2 1/8	2 1/8	1 7/16	11/16	15/16	3/4	7/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7-628	7/8	2 1/8	2 1/8	1 1/2	11/16	15/16	3/4	7/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7-630	15/16	2 1/8	2 1/8	1 19/32	5/8	15/16	3/4	7/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7-632	1	2 1/4	2 1/8	1 11/16	11/16	1 1/16	3/4	7/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7-634	1 1/16	2 1/4	2 1/8	1 3/4	11/16	1 1/16	3/4	7/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7-636	1 1/8	2 1/4	2 1/8	1 7/8	11/16	1 1/16	13/16	7/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7-638	1 3/16	2 1/4	2 1/8	1 7/8	11/16	1 1/16	13/16	7/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7-640	1 1/4	2 3/8	2 1/8	2	3/4	1 3/16	15/16	7/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7-642	1 5/16	2 1/2	2 1/8	2 1/16	7/8	1 5/16	1	1	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7-644	1 3/8	2 1/2	2 1/8	2 1/8	7/8	1 5/16	1 3/8	-	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7-646	1 7/16	2 1/2	2 1/4	2 1/4	29/32	1 5/16	1 7/16	-	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7-648	1 1/2	2 5/8	2 1/4	2 11/32	15/16	1 15/32	1 1/2	1 5/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7-650	1 9/16	2 5/8	2 1/4	2 3/8	15/16	1 7/16	1 9/16	1 5/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7-652	1 5/8	2 3/4	2 1/4	2 3/8	1 1/16	1 5/8	1 19/32	1 3/4	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7-654	1 11/16	2 3/4	2 3/8	2 19/32	1 1/16	1 5/8	1 7/32	1 3/4	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-656	1 3/4	2 7/8	2 3/8	2 5/8	1 5/32	1 23/32	1 7/16	1 7/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-658	1 13/16	2 15/16	2 3/8	2 3/4	1 3/16	1 23/32	1 13/16	1 15/16	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-660	1 7/8	2 15/16	2 3/8	2 3/4	1 3/16	1 23/32	1 7/16	1 15/16	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-662	1 15/16	2 15/16	2 3/8	2 3/4	1 3/16	1 23/32	1 3/8	1 15/16	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-664	2	3 1/8	2 3/8	3	1 9/32	1 31/32	1 13/32	2 1/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-666	2 1/16	3 1/8	2 3/8	3	1 9/32	1 31/32	1 1/2	2 1/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-668	2 1/8	3 1/4	2 3/8	3 1/8	1 9/32	1 31/32	1 5/8	2 1/4	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-670	2 3/16	3 5/16	2 3/8	3 1/4	1 7/16	2 5/32	1 5/8	2 5/16	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-672	2 1/4	3 5/16	2 3/8	3 1/4	1 7/16	2 5/32	1 5/8	2 5/16	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-674	2 5/16	3 1/2	2 3/8	3 3/8	1 1/2	2 5/32	1 3/4	2 1/2	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-676	2 3/8	3 1/2	2 3/8	3 1/2	1 1/2	2 11/32	1 3/4	2 1/2	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-678	2 7/16	3 1/2	2 3/8	3 1/2	1 1/2	2 11/32	1 3/4	2 1/2	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-680	2 1/2	3 5/8	2 3/8	3 1/2	1 5/8	2 15/32	2 1/2	2 5/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-682	2 9/16	3 5/8	2 3/8	3 5/8	1 5/8	2 15/32	2 9/16	2 5/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-684	2 5/8	3 5/8	2 3/8	3 3/4	1 5/8	2 5/16	1 7/8	2 5/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-686	2 11/16	3 7/8	2 3/8	3 3/4	1 13/16	2 15/32	2	2 7/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-688	2 3/4	3 7/8	2 3/8	3 3/4	1 13/16	2 21/32	2 3/4	2 7/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-690	2 13/16	4	2 3/8	4	1 13/16	2 11/16	2	3	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-692	2 7/8	4	2 3/8	4	1 13/16	2 11/16	2	3	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-694	2 15/16	4 3/16	2 3/8	4 1/8	2 1/32	2 11/16	2 15/16	3 1/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-696	3	4 3/8	2 3/8	4 1/4	2 1/16	3 5/16	2 3/8	3 3/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6100	3 1/8	4 3/8	2 3/8	4 1/4	2 1/16	3 5/16	2 3/8	3 3/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6104	3 1/4	4 3/8	2 3/8	4 1/2	2 1/16	3 1/32	2 3/8	3 3/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6108	3 3/8	4 23/32	2 3/8	4 5/8	2 1/4	3 5/16	2 1/2	2 39/64	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6112	3 1/2	4 3/4	2 3/8	4 3/4	2 1/4	3 11/32	2 1/2	2 5/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6116	3 5/8	4 3/4	2 3/8	5	2 5/16	3 11/32	2 5/8	2 19/32	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6118	3 11/16	4 3/4	2 3/8	5 5/16	2 7/16	3 13/32	2 3/4	2 15/16	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6120	3 3/4	5 1/16	2 3/8	5 1/8	2 3/8	3 21/64	2 5/8	3 5/32	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6122	3 13/16	5 3/16	2 3/8	5 3/8	2 17/32	3 9/16	2 5/8	3 23/64	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6124	3 7/8	5 1/4	2 3/8	5 1/4	2 9/16	3 25/32	2 3/4	3 1/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6126	3 15/16	5 5/16	2 3/8	5 11/32	2 9/16	3 25/32	3	3 3/16	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6128	4	5 3/8	2 3/8	5 1/2	2 9/16	3 25/32	2 7/8	3 15/64	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6130	4 1/16	5 3/8	2 3/8	5 1/2	2 15/32	2 19/32	3	3 33/64	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6132	4 1/8	5 3/8	2 3/8	5 9/16	2 9/16	3 25/32	2 7/8	3 7/32	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6134	4 3/16	5 1/2	2 3/8	6	2 33/64	3 55/64	3	3 41/64	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6136	4 1/4	5 1/2	2 3/8	5 3/4	2 5/8	3 25/32	3 1/8	3 5/16	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6138	4 5/16	5 1/2	2 3/8	5 13/16	2 21/32	3 25/32	3 3/8	3 5/16	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6140	4 3/8	5 5/8	2 3/8	5 27/32	2 5/8	3 25/32	3 1/8	3 39/64	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6142	4 7/16	5 5/8	2 3/8	6	2 43/64	3 25/32	2 5/8	3 19/32	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6144	4 1/2	5 5/8	2 3/8	6	2 5/8	3 25/32	3 1/8	3 13/32	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7-6146	4 9/16	5 5/8	3 1/4	6 1/2	2 3/4	3 1/2	3 3/8	3 17/32	JHW8-1XS	JHW7-1C - JHW7-2F
JHW7-6148	4 5/8	5 3/4	3 1/4	6 13/32	3 1/16	3 25/32	3 1/8	3 25/32	JHW8-1XS	JHW7-1C - JHW7-2F
JHW7-6152	4 3/4	5 3/4	3 1/4	6 5/8	2 57/64	3 29/32	3 1/2	3 23/32	JHW8-1XS	JHW7-1C - JHW7-2F
JHW7-6156	4 7/8	6	3 1/4	7	3	3 29/32	3 1/2	3 31/32	JHW8-1XS	JHW7-1C - JHW7-2F
JHW7-6160	5	6 1/4	3 1/4	7	3	4 3/16	3 1/2	4 7/32	JHW8-1XS	JHW7-1C - JHW7-2F
JHW7-6172	5 3/8	6 1/2	3 1/4	7 1/2	3 9/16	4 5/16	4 43/64	4 1/4	JHW8-1XS	JHW7-1C - JHW7-2F
JHW7-6184	5 3/4	6 1/2	3 1/4	8 1/4	3 9/16	4 17/32	4	4 9/32	JHW8-1XS	JHW7-1C - JHW7-2F

Fed. Spec: ANSI B107.2

Made in U.S.A.

1 " DRIVE SHALLOW IMPACT SOCKETS, 12 POINT, SAE

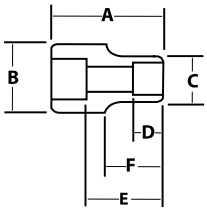
Black Industrial Finish

		A	B	C	D	E	F			
Product Code	Size (MM)	OAL (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	Nose Length (Inches)	Uses RET RING® Number	Use O-Ring / Pin
JHW7-1224	3/4"	2	2 1/8	1 3/8	1/2	7/8	3/4	3/4	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1226	13/16"	2 1/4	2 1/8	1 3/8	5/8	1 1/8	3/4	1	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1228	7/8"	2 1/4	2 1/8	1 1/2	5/8	1 1/8	3/4	1	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1230	15/16"	2 1/4	2 1/8	1 5/8	2/3	1 1/8	1	1	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1232	1"	2 1/4	2 1/8	1 5/8	2/3	1 1/8	1	1	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1234	1 1/16"	2 1/2	2 1/8	1 3/4	3/4	1 1/3	1	1 1/4	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1236	1 1/8"	2 1/2	2 1/8	1 3/4	3/4	1 1/3	1	1 1/4	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1238	1 3/16"	2 1/2	2 1/8	1 7/8	3/4	1 1/3	1 1/4	1 1/4	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1240	1 1/4"	2 1/2	2 1/8	2	3/4	1 1/3	1 1/4	1 1/4	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1242	1 5/16"	2 3/4	2 1/8	2 1/8	7/8	1 5/8	1 1/4	-	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1244	1 3/8"	2 3/4	2 1/8	2 1/8	7/8	1 5/8	1 1/3	-	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1246	1 7/16"	2 3/4	2 1/8	2 1/8	1	1 5/8	1 7/16	-	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1248	1 1/2"	2 3/4	2 1/4	2 3/8	1	1 5/8	1 7/16	-	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1250	1 9/16"	2 3/4	2 1/4	2 3/8	1	1 5/8	1 7/16	-	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1252	1 5/8"	2 3/4	2 1/4	2 3/8	1 1/8	1 5/8	1 9/16	-	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1254	1 11/16"	2 3/4	2 1/4	2 5/8	1 1/8	1 5/8	1 7/16	-	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1256	1 3/4"	3	2 1/4	2 5/8	1 1/4	1 7/8	1 7/16	-	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1258	1 13/16"	3	2 1/4	2 5/8	1 1/8	1 7/8	1 7/16	-	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1260	1 7/8"	3	2 1/4	2 3/4	1 1/4	1 7/8	1 7/16	-	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1262	1 15/16"	3 1/4	2 1/4	2 7/8	1	2	1 7/8	-	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1264	2"	3 1/4	2 1/4	2 7/8	1 1/3	2	2	-	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1266	2 1/16"	3 1/2	2 1/4	3	1 1/3	2 1/8	2	-	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1268	2 1/8"	3 1/2	2 1/4	3	1 1/3	2 1/8	2	-	JHW7-2XS	JHW7-1B/JHW7-2D
JHW7-1270	2 3/16"	3 1/2	2 3/8	3 1/8	1 1/2	2 1/8	2 1/8	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-1272	2 1/4"	3 1/2	2 3/8	3 1/4	1 1/2	2 1/8	2 1/4	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-1274	2 5/16"	3 3/4	2 3/8	3 1/4	1 1/2	2 3/8	2 1/4	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-1276	2 3/8"	3 3/4	2 3/8	3 3/8	1 1/2	2 3/8	2 1/3	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-1278	2 7/16"	3 3/4	2 3/8	3 1/2	1 1/2	2 1/4	2 1/2	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-1280	2 1/2"	3 3/4	2 3/8	3 1/2	1 1/2	2 1/4	2 1/2	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-1282	2 9/16"	4	2 3/8	3 5/8	1 1/2	2 1/2	2 1/2	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-1284	2 5/8"	4	2 3/8	3 5/8	1 1/2	2 1/2	2 1/2	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-1286	2 11/16"	4	2 3/8	3 3/4	1 3/4	2 1/2	2 2/3	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-1288	2 3/4"	4 1/4	2 3/8	3 7/8	1 3/4	2 3/4	2 3/4	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-1290	2 13/16"	4 1/4	2 3/8	3 7/8	1 3/4	2 11/16	2 3/4	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-1292	2 7/8"	4 1/4	2 3/8	4	1 3/4	2 11/16	2 3/4	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-1294	2 15/16"	4 1/4	2 3/8	4 1/8	1 3/4	2 5/8	3	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-1296	3"	4 1/4	2 3/8	4 1/8	1 3/4	2 5/8	3	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-1298	3 1/16"	4 1/2	2 3/8	4 1/4	2	2 7/8	3	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-12100	3 1/8"	4 1/2	2 3/8	4 1/4	2	2 7/8	3	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-12104	3 1/4"	4 1/2	2 3/8	4 1/2	2	2 13/16	3 1/4	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-12108	3 3/8"	5	2 3/8	4 5/8	2 1/4	3 1/4	3 1/4	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-12112	3 1/2"	5	2 3/8	5	2 1/4	3 1/4	3 1/2	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-12116	3 5/8"	5	2 3/8	4 7/8	2 1/4	3 3/16	3 5/8	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-12120	3 3/4"	5	2 3/8	5 1/8	2 1/4	3 3/16	3 3/4	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-12124	3 7/8"	5 1/2	2 3/8	5 1/4	2 1/2	3 5/8	3 7/8	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-12128	4"	5 1/2	2 3/8	5 3/8	2 1/2	3 5/8	4	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-12132	4 1/8"	5 1/2	2 3/8	5 1/2	2 1/2	3 1/2	4	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-12136	4 1/4"	5 1/2	2 3/8	5 3/4	2 1/2	3 1/2	4 1/4	-	JHW7-3XS	JHW7-1B/JHW7-2D
JHW7-12144	4 1/2"	5 3/4	2 3/8	6	2 1/2	3 2/3	4 1/2	-	JHW7-3XS	JHW7-1B/JHW7-2D

TOOLS @ HEIGHT DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW7-1296



Features

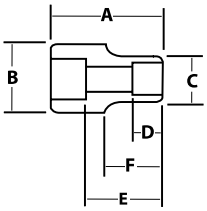
- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 and 12 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

WARNING

TOOLS @ HEIGHT
DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW17-660



1" DRIVE DEEP IMPACT SOCKETS, 6 POINT, SAE

Black Industrial Finish

Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	F Bolt Clearance Diameter (Inches)	Nose Length (Inches)	Uses RET RING® Number	Use O-Ring / Pin
JHW17-632	1	3	2 1/8	1 19/32	3/4	1 13/16	1 1/16	7/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW17-634	1 1/16	3 3/4	2 1/8	1 3/4	1 23/32	2 19/32	3/4	7/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW17-636	1 1/8	3 3/4	2 1/8	1 13/16	1 25/32	2 19/32	7/8	7/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW17-638	1 3/16	3	2 1/8	1 13/16	3/4	1 13/16	13/16	7/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW17-640	1 1/4	3 3/4	2 1/8	1 31/32	1 15/16	2 19/32	7/8	1	JHW7-2XS	JHW7-1B / JHW7-2D
JHW17-642	1 5/16	3 3/4	2 1/8	2 1/16	2 1/32	2 27/32	1	1	JHW7-2XS	JHW7-1B / JHW7-2D
JHW17-644	1 3/8	4	2 1/8	2 1/16	2 1/8	2 27/32	1	1	JHW7-2XS	JHW7-1B / JHW7-2D
JHW17-646	1 7/16	4	2 1/8	2 1/4	2 3/16	2 27/32	1	2 1/4	JHW7-2XS	JHW7-1B / JHW7-2D
JHW17-648	1 1/2	4	2 1/4	2 3/8	2 1/4	2 27/32	1 1/8	2 1/2	JHW7-2XS	JHW7-1B / JHW7-2D
JHW17-650	1 9/16	3 1/2	2 1/4	2 3/8	1	2 1/32	1 17/32	2 1/2	JHW7-2XS	JHW7-1B / JHW7-2D
JHW17-652	1 5/8	3 5/8	2 1/4	2 7/16	2 13/32	3 3/32	1 1/8	2 5/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW17-654	1 11/16	4 1/4	2 1/4	2 17/32	2 1/2	3 3/32	1 1/4	2 5/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-656	1 3/4	4 1/4	2 1/4	2 19/32	2 9/16	3 1/32	1 1/4	2 7/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-658	1 13/16	4 1/2	2 1/4	2 11/16	2 21/32	3 9/32	1 1/4	2 7/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-660	1 7/8	4 1/2	2 1/4	2 3/4	2 3/4	3 1/4	1 3/8	2 7/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-662	1 15/16	4 1/2	2 1/4	2 27/32	2 13/16	3 1/4	1 3/8	3 1/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-664	2	4 1/2	2 1/4	2 29/32	2 7/8	3 7/32	1 3/8	3 1/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-666	2 1/16	4 3/4	2 1/4	3	2 31/32	3 15/32	1 1/2	3 1/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-668	2 1/8	4 3/8	2 3/8	3 1/4	1 5/16	3 3/16	1 5/8	3 3/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-670	2 3/16	4 3/4	2 13/32	3 5/32	3 1/8	3 7/16	1 1/2	3 3/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-672	2 1/4	4 3/4	2 13/32	3 7/32	3 3/16	3 13/32	1 5/8	3 3/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-674	2 5/16	5	2 13/32	3 5/16	3 9/32	3 21/32	1 5/8	3 1/2	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-676	2 3/8	5	2 13/32	3 3/8	3 3/8	3 5/8	1 3/4	3 1/2	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-678	2 7/16	4 1/2	2 3/8	3 1/2	1 1/2	3 7/32	1 3/4	3 1/2	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-680	2 1/2	4 1/2	2 3/8	3 1/2	1 5/8	3	2 1/2	3 1/2	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-682	2 9/16	4 7/8	2 3/8	3 5/8	1 5/8	3 1/2	2	3 7/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-684	2 5/8	4 11/16	2 3/8	3 3/4	1 5/8	3 11/32	2	3 11/16	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-686	2 11/16	4 11/16	2 3/8	3 3/4	1 13/16	2 1/2	2	3 11/16	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-688	2 3/4	5 1/8	2 3/8	3 3/4	1 3/4	3 5/8	2	4 1/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-690	2 13/16	5 1/8	2 3/8	4	1 13/16	2 27/32	2	4 1/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-692	2 7/8	4 7/8	2 3/8	4	1 13/16	3 9/16	2	3 7/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-694	2 15/16	4 7/8	2 3/8	4 1/8	2 1/32	2 11/16	2	3 7/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-696	3	5 1/8	2 3/8	4 1/4	2 1/32	3 7/8	2 3/8	4 1/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6100	3 1/8	5 1/8	2 3/8	4 3/8	2 1/32	3 1/32	2 3/8	4 1/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6104	3 1/4	5 3/8	2 3/8	4 1/2	2 1/32	3 1/32	2 3/8	4 3/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6108	3 3/8	5 1/2	2 3/8	4 5/8	2 1/4	3 5/16	2 1/2	4 1/2	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6112	3 1/2	5 1/2	2 3/8	4 3/4	2 1/4	4 3/32	2 1/2	4 1/2	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6116	3 5/8	5 1/2	2 3/8	5	2 5/16	4 3/32	2 5/8	4 1/2	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6118	3 11/16	5 17/32	2 3/8	5 5/16	2 7/16	3 7/8	2 3/4	4 17/32	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6120	3 3/4	5 9/16	2 3/8	5 1/4	2 1/4	3 19/32	2 13/16	4 9/16	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6122	3 13/16	5 31/32	2 3/8	5 3/8	2 17/32	4 11/32	2 5/8	4 31/32	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6124	3 7/8	5 9/16	2 3/8	5 1/4	2 9/16	3 5/8	3	4 9/16	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6126	3 15/16	6 1/16	2 3/8	5 1/2	2 13/32	4 13/32	3	5 1/16	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6128	4	6 1/8	2 3/8	5 1/2	2 17/32	4 3/32	2 7/8	5 1/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6130	4 1/16	6 1/8	2 3/8	5 1/2	2 15/32	4 1/2	3	5 5/32	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6132	4 1/8	6 1/8	2 3/8	5 17/32	2 17/32	4 3/32	2 7/8	5 1/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6134	4 3/16	6 7/32	2 3/8	6	2 1/2	4 9/16	3	5 7/32	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6136	4 1/4	6 9/32	2 3/8	5 3/4	2 5/8	4 9/16	3 1/8	5 9/32	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6138	4 5/16	6 11/32	2 3/8	5 13/16	2 21/32	4 5/8	3 3/8	5 11/32	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6140	4 3/8	6 13/32	2 3/8	5 27/32	2 5/8	4 9/16	3 1/8	5 13/32	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6142	4 7/16	6 13/32	2 3/8	6	2 21/32	4 9/16	2 5/8	5 13/32	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6144	4 1/2	7	2 3/8	6	2 3/4	5	3 1/8	6	JHW7-3XS	JHW7-1B / JHW7-2D
JHW17-6146	4 9/16	7 1/8	3 1/4	6 1/2	2 3/4	4 19/32	3 3/8	6 1/8	JHW8-1XS	JHW7-1C - JHW7-2F
JHW17-6148	4 5/8	7 1/8	3 1/4	6 13/16	2 13/16	4 3/32	3 1/2	6 1/8	JHW8-1XS	JHW7-1C - JHW7-2F
JHW17-6152	4 3/4	6 3/4	3 1/4	6 5/8	2 29/32	4 29/32	3 1/2	5 3/4	JHW8-1XS	JHW7-1C - JHW7-2F
JHW17-6156	4 7/8	7 1/4	3 1/4	7	3	5 5/32	3 1/2	6 1/4	JHW8-1XS	JHW7-1C - JHW7-2F
JHW17-6160	5	7 3/4	3 1/4	7	3	5 21/32	3 1/2	6 3/4	JHW8-1XS	JHW7-1C - JHW7-2F
JHW17-6172	5 3/8	8	3 1/4	7 1/2	3 9/16	5 25/32	3 21/32	7	JHW8-1XS	JHW7-1C - JHW7-2F
JHW17-6184	5 3/4	8	3 1/4	8 1/4	3 9/16	6 1/32	4	7	JHW8-1XS	JHW7-1C - JHW7-2F

Fed. Spec: ANSI B107.2

Made in U.S.A.

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

1" DRIVE SHALLOW IMPACT SOCKETS, 6 POINT, METRIC

Black Industrial Finish

Product Code	Size (MM)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	F Bolt Clearance Diameter (Inches)	Nose Length (Inches)	Uses RET RING® Number	Use O-Ring / Pin
JHW7M-627	27	2 1/4	2 1/8	1 3/4	11/16	1 1/16	3/4	7/8	JHW7-2XS	JHW7-1B /JHW 7-2D
JHW7M-630	30	2 1/4	2 1/8	1 7/8	11/16	1 1/16	13/16	7/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7M-632	32	2 3/8	2 1/8	2	3/4	1 3/16	15/16	7/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7M-635	35	2 1/2	2 1/8	2 1/8	7/8	1 5/16	1 3/8	-	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7M-638	38	2 5/8	2 1/4	2 11/32	15/16	1 15/32	1 1/2	1 5/8	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7M-641	41	2 3/4	2 1/4	2 3/8	1 1/16	1 5/8	1 19/32	1 3/4	JHW7-2XS	JHW7-1B / JHW7-2D
JHW7M-646	46	2 15/16	2 3/8	2 3/4	1 3/16	1 23/32	1 13/16	1 15/16	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7M-650	50	3	2 3/8	2 3/4	1 1/4	1 27/32	1 61/64	2	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7M-660	60	3 1/2	2 3/8	3 1/2	1 1/2	2 11/32	1 3/4	2 1/2	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7M-665	65	3 5/8	2 3/8	3 5/8	1 5/8	2 1/8	2 1/4	2 5/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7M-670	70	3 7/8	2 3/8	3 3/4	1 13/16	2 21/32	2 3/4	2 7/8	JHW7-3XS	JHW7-1B / JHW7-2D
JHW7M-675	75	4 3/16	2 3/8	4 1/8	2 1/32	2 11/16	2 15/16	3 1/8	JHW7-3XS	JHW7-1B / JHW7-2D

Features

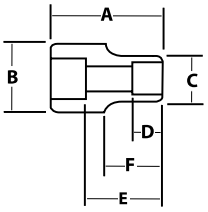
- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability
- Drive end features pin retention hole and groove
- Dual marked with corresponding SAE size

Made in U.S.A.

TOOLS @ HEIGHT DROP PREVENTION SYSTEM

Side hole in socket permits use with Snap-on Industrial Brands Tools@Height drive tools such as ratchets, extensions and u-joints

JHW7M-650



1-1/2" DRIVE IMPACT EXTENSIONS AND ACCESSORIES

Black Industrial Finish

Product Code	Description	Length (Inches)	Use RET RING®	Use O-Ring / Pin	Socket Retention
JHW8-108	Impact Extension	8	JHW8-1XS	JHW7-1C /JHW8-2E	Through Hole and Pin
JHW8-115	Impact Extension	15	JHW8-1XS	JHW7-1C / JHW8-2E	Through Hole and Pin
JHW8-140B	Impact Universal Joint	6 1/16	JHW8-1XS	JHW7-1C / JHW8-2E	Through Hole and Pin
JHW8-7	1"M x 1 1/2"F Adapter	4 1/4	JHW8-1XS	JHW7-1C / JHW8-2E	Through Hole and Pin
JHW8-8	1 1/2"M x 2 1/2"F Adapter	6 3/8	JHW8-4XS	JHW9-1D / JHW9-2G	Through Hole and Pin

Fed. Spec: ANSI B107.2

Features

- Specially heat treated for impact use to provide long life, safety, and durability.
- Pin and o-ring or RET RING® (sold separately) secure tools onto impact wrench for safety and convenience.
- Universal joint provides 55° range of motion.
- Suitable for use with pneumatic and electric impact wrenches.
- Drive end features pin retention hole and groove.

Made in U.S.A.

JHW8-108

JHW8-140B

JHW8-7

JHW8-8

1-1/2" SLIDING T-HANDLE

Black Industrial Finish

Product Code	Length (Inches)	Shaft Diameter (Inches)	Socket Retention
JHW8-20	36	2 1/2	Plunger and Spring

Features

- Drive end slides on bar for additional flexibility.
- Ideal for turning 1-1/2" drive sockets when impact wrench is not available.

Made in U.S.A.

JHW8-20

WARNING

JHW7-1C

JHW8-2E

1-1/2" DRIVE IMPACT RETAINING PINS AND RINGS

Product Code	Description	Dia. (Inches)	Length (Inches)	Application
JHW7-1C	Impact Retaining O-Ring	3 1/4	NA	Fits All Williams 1 1/2" Drive Sockets & Accessories
JHW8-2E	Impact Retaining Pin	1/4	2 7/8	Fits All Williams 1 1/2" Drive Sockets & Accessories
JHW9-1D	Impact Retaining O-Ring	4 1/8	NA	
JHW9-2G	Impact Retaining Pin	5/16	2 7/8	

Features

- Specially heat treated for impact use to provide long life, safety, and durability
- Suitable for use with pneumatic and electric impact wrenches
- For 1-1/2" Drive impact tools with pin retention hole and groove

Made in U.S.A.

JHW8-1XS

1-1/2" DRIVE RET RING® ONE-PIECE IMPACT RETAINING RINGS WITH CRUSH GAUGE

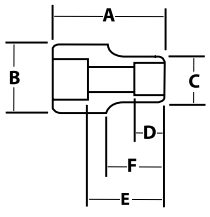
Product Code	Diameter (Inches)	Application
JHW8-1XS	2 7/8	Fits Williams 1 1/2" Drive Tools with "B" Dimension of 3 1/4"
JHW8-2XS	3 3/8	Fits Competitive Impact Sockets
JHW8-3XS	3 7/8	Fits Competitive Impact Sockets
JHW8-4XS	4 3/8	Fits Competitive Impact Sockets

Features

- Fits all Williams 1-1/2" Drive Sockets and Accessories
- Crush Gage on the resin pin indicates when a socket is excessively worn and should be replaced
- Securely retains sockets and accessories to square drive of impact wrench
- For 1-1/2" drive impact tools with pin retention hole and groove
- Made of oil resistant material
- RET RING® is a trademark of FTL Enterprises, Inc.

Made in U.S.A.

JHW41144



1-1/2" DRIVE SHALLOW IMPACT SOCKETS, 12 POINT, SAE

Black Industrial Finish

Product Code	Size (Inches)	A Overall Length (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	Bolt Clearance Diameter (Inches)	F Nose Length (Inches)
JHW41144	1 3/8	3 1/8	3 3/8	2 1/2	1	/	1 3/16	1 3/8
JHW41146	1 7/16	3 1/8	3 3/8	2 1/2	1	/	1 1/4	1 3/8
JHW41148	1 1/2	3 1/8	3 3/8	2 5/8	1	/	1 1/4	1 3/8
JHW41150	1 9/16	3 1/8	3 3/8	2 5/8	1	/	1 3/8	1 3/8
JHW41152	1 5/8	3 1/8	3 3/8	2 3/4	1	/	1 3/8	1 3/8
JHW41154	1 11/16	3 1/4	3 3/8	2 3/4	1 1/16	/	1 1/2	1 1/2
JHW41156	1 3/4	3 1/4	3 3/8	2 15/16	1 1/16	/	1 1/2	1 1/2
JHW41158	1 13/16	3 1/4	3 3/8	2 15/16	1 1/16	/	1 5/8	1 1/2
JHW41160	1 7/8	3 7/16	3 3/8	3 1/8	1 3/16	/	1 5/8	1 5/8
JHW41162	1 15/16	3 7/16	3 3/8	3 1/8	1 3/16	/	1 3/4	1 5/8
JHW41164	2	3 7/16	3 3/8	3 1/4	1 3/16	/	1 3/4	1 5/8
JHW41166	2 1/16	3 7/16	3 3/8	3 1/4	1 3/16	/	1 7/8	1 5/8
JHW41168	2 1/8	3 1/2	3 3/8	3 3/8	1 1/2	/	1 7/8	/
JHW41170	2 3/16	3 1/2	3 3/8	3 3/8	1 1/2	/	1 7/8	/
JHW41172	2 1/4	3 1/2	3 3/8	3 5/8	1 1/2	/	2 1/16	1 3/4
JHW41174	2 5/16	3 1/2	3 3/8	3 5/8	1 1/2	/	2 1/16	1 3/4
JHW41176	2 3/8	3 1/2	3 3/8	3 5/8	1 1/2	/	2 1/16	1 3/4
JHW41178	2 7/16	3 3/4	3 3/8	3 7/8	1 5/8	/	2/14	1 3/4
JHW41180	2 1/2	3 3/4	3 3/8	3 7/8	1 5/8	/	2/14	1 3/4
JHW41182	2 9/16	3 3/4	3 3/8	3 7/8	1 5/8	/	2/14	1 3/4
JHW41184	2 5/8	3 3/4	3 3/8	4 3/16	1 5/8	/	2 7/16	1 3/4
JHW41186	2 11/16	3 3/4	3 3/8	4 3/16	1 5/8	/	2 7/16	1 3/4
JHW41188	2 3/4	3 3/4	3 3/8	4 3/16	1 5/8	/	2 1/2	1 3/4
JHW41190	2 13/16	4 1/16	3 3/8	4 1/4	1 3/4	/	2 1/2	1 3/4
JHW41192	2 7/8	4 1/16	3 3/8	4 1/4	1 3/4	/	2 5/8	1 3/4
JHW41194	2 15/16	4 1/16	3 3/8	4 1/4	1 3/4	/	2 5/8	1 3/4
JHW41196	3	4 1/4	3 3/8	4 5/8	2	/	2 3/4	1 3/4
JHW41200	3 1/8	4 1/4	3 3/8	4 5/8	2	/	2 3/4	1 3/4
JHW41204	3 1/4	4 1/4	3 3/8	4 15/16	2	/	3	1 3/4
JHW41208	3 3/8	4 1/4	3 3/8	4 15/16	2	/	3	1 3/4
JHW41212	3 1/2	4 5/8	3 3/8	5	2 3/16	/	3 1/4	1 3/4
JHW41220	3 3/4	4 5/8	3 3/4	5 1/4	2 3/16	/	3 1/2	2
JHW41224	3 7/8	4 15/16	3 3/4	5 7/16	2 1/4	/	3 5/8	2
JHW41226	3 15/16	4 15/16	3 3/4	5 7/16	2 1/4	/	3 5/8	2
JHW41228	4	4 15/16	3 3/4	5 7/16	2 1/4	/	3 3/4	2

Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 and 12 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

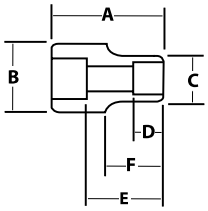
Made in U.S.A.

WILLIAMS

1-1/2" DRIVE SHALLOW IMPACT SOCKETS, 6 POINT, SAE

Black Industrial Finish

JHW8-696



Product Code	Size (Inches)	A OAL (Inches)	B Drive End Diameter (Inches)	C Working End Diameter (Inches)	D Broach Depth (Inches)	E Bolt Clearance Depth (Inches)	F Bolt Clearance Diameter (Inches)	F Nose Length (Inches)	Uses RET RING® Number	Use O-Ring / Pin
JHW8-646	1 7/16	3 1/32	3 1/4	2 7/8	57/64	1 25/64	1 7/16	1 7/32	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-648	1 1/2	3 3/32	3 1/4	2 7/8	29/32	1 7/16	1 31/64	1 17/64	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-652	1 5/8	3 3/16	3 1/4	2 29/32	1 1/32	1 9/16	1 5/8	1 21/64	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-654	1 11/16	3 1/4	3 1/4	2 31/32	1 1/16	1 9/16	1 11/16	1 39/64	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-656	1 3/4	3 9/32	3 1/4	3 1/32	1 1/32	1 21/32	1 21/32	1 9/16	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-658	1 13/16	3 21/64	3 1/4	3 3/32	1 5/32	1 11/64	1 13/16	1 5/8	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-660	1 7/8	3 3/8	3 1/4	3 5/32	1 7/32	1 3/4	1 7/8	1 23/32	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-664	2	3 7/16	3 1/4	3 1/2	1 9/32	1 13/16	2	1 51/64	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-666	2 1/16	3 1/2	3 1/4	3 1/2	1 13/32	1 55/64	2 1/16	1 55/64	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-668	2 1/8	3 9/16	3 1/4	3 1/2	1 27/64	1 59/64	2 1/8	1 59/64	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-670	2 3/16	3 21/32	3 1/4	3 1/2	1 7/16	2	2 3/16	2 1/64	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-672	2 1/4	3 3/4	3 1/4	3 9/16	1 17/32	2 1/8	2 1/4	2 1/8	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-676	2 3/8	3 7/8	3 1/4	3 25/32	1 9/16	2 1/4	2 3/8	2 17/64	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-678	2 7/16	3 15/16	3 1/4	3 25/32	1 9/16	2 19/64	2 7/16	2 5/16	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-680	2 1/2	4	3 1/4	3 7/8	1 19/32	2 3/8	2 31/64	2 1/64	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-682	2 9/16	4 1/32	3 1/4	3 29/32	1 5/8	2 13/32	2 9/16	2 3/64	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-684	2 5/8	4 3/32	3 1/4	4	1 11/16	2 15/32	2 5/8	2 7/64	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-688	2 3/4	4 7/32	3 1/4	4 5/32	1 13/16	2 7/16	2 3/4	2 15/64	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-692	2 7/8	4 5/16	3 1/4	4 5/16	1 7/8	2 11/16	2 5/8	2 9/32	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-694	2 15/16	4 3/8	3 1/4	4 3/8	1 29/32	2 3/4	2 5/8	2 23/64	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-696	3	4 7/16	3 1/4	4 7/16	1 5/16	2 27/32	2 5/8	2 13/32	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-698	3 1/16	4 1/2	3 1/4	4 9/16	1 31/32	2 7/8	2 5/8	2 15/32	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6100	3 1/8	4 9/16	3 1/4	4 5/8	2	3	2 5/8	2 1/2	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6104	3 1/4	4 21/32	3 1/4	4 25/32	2 1/8	3	2 5/8	2 19/32	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6108	3 3/8	4 3/4	3 1/4	4 15/16	2 7/32	3 1/8	2 5/8	2 43/64	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6110	3 7/16	4 27/32	3 1/4	5	2 9/32	3 7/32	2 5/8	2 3/4	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6112	3 1/2	4 29/32	3 1/4	5 1/16	2 5/16	3 1/4	2 5/8	2 13/16	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6116	3 5/8	5 1/8	3 1/4	5 1/4	2 13/32	3 7/16	2 5/8	3	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6120	3 3/4	5 1/8	3 1/4	5 3/8	2 15/32	3 1/2	2 5/8	3 1/32	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6122	3 13/16	5 3/16	3 1/4	5 3/8	2 17/32	3 7/8	2 5/8	3 3/32	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6124	3 7/8	5 1/4	3 1/4	5 17/32	2 9/16	3 5/8	2 5/8	3 5/32	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6128	4	5 13/32	3 1/4	5 21/32	2 5/8	3 25/32	2 5/8	3 9/32	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6132	4 1/8	5 9/16	3 1/4	5 13/16	2 3/4	3 59/64	2 5/8	3 7/16	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6136	4 1/4	5 11/16	3 1/4	5 31/32	2 13/16	4 1/16	2 5/8	3 9/16	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6138	4 5/16	5 25/32	3 1/4	6 1/32	2 7/8	4 5/32	2 5/8	3 21/32	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6140	4 3/8	5 27/32	3 1/4	6 3/32	2 29/32	4 7/32	2 5/8	3 21/32	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6144	4 1/2	6	3 1/4	6 1/4	3 1/32	4 3/8	2 5/8	3 15/16	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6148	4 5/8	6 1/16	3 1/4	6 13/16	3 1/16	4 7/16	3 1/2	4 3/32	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6152	4 3/4	6 1/8	3 1/4	6 9/16	3 1/8	4 1/2	2 5/8	4	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6156	4 7/8	6 3/4	3 1/4	7	3 1/8	5 7/64	3 1/2	4 19/32	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6160	5	6 3/4	3 1/4	7 1/8	3 1/16	5 7/64	3 1/2	4 9/16	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6172	5 3/8	7	3 1/4	7 5/16	3 1/4	5 1/8	4	4 29/32	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6184	5 3/4	7	3 1/4	7 5/8	3 1/2	5 1/8	3 3/4	4 7/8	JHW8-1XS	JHW7-1C / JHW8-2E
JHW8-6196	6 1/8	7 1/4	5	8 1/2	3 11/16	5 3/8	4 1/2	5 1/16	JHW8-4XS	JHW9-1D / JHW8-2E
JHW8-6208	6 1/2	7 1/2	5	9 1/4	3 1/2	5 5/8	5	5 9/64	JHW8-4XS	JHW9-1D / JHW8-2E
JHW8-6220	6 7/8	7 7/8	5	9 1/4	3 7/8	6	4 3/4	5 33/64	JHW8-4XS	JHW9-1D / JHW8-2E
JHW8-6232	7 1/4	8 1/8	5	10	4 1/2	6 1/4	5 1/2	5 49/64	JHW8-4XS	JHW9-1D / JHW8-2E
JHW8-6244	7 5/8	8 1/4	5	10 3/4	4 13/16	6 3/8	6 1/2	5 57/64	JHW8-4XS	JHW9-1D / JHW8-2E
JHW8-6256	8	8 3/8	5	11	5 1/16	6 1/2	7	6 1/64	JHW8-4XS	JHW9-1D / JHW8-2E

Fed. Spec: ANSI B107.2

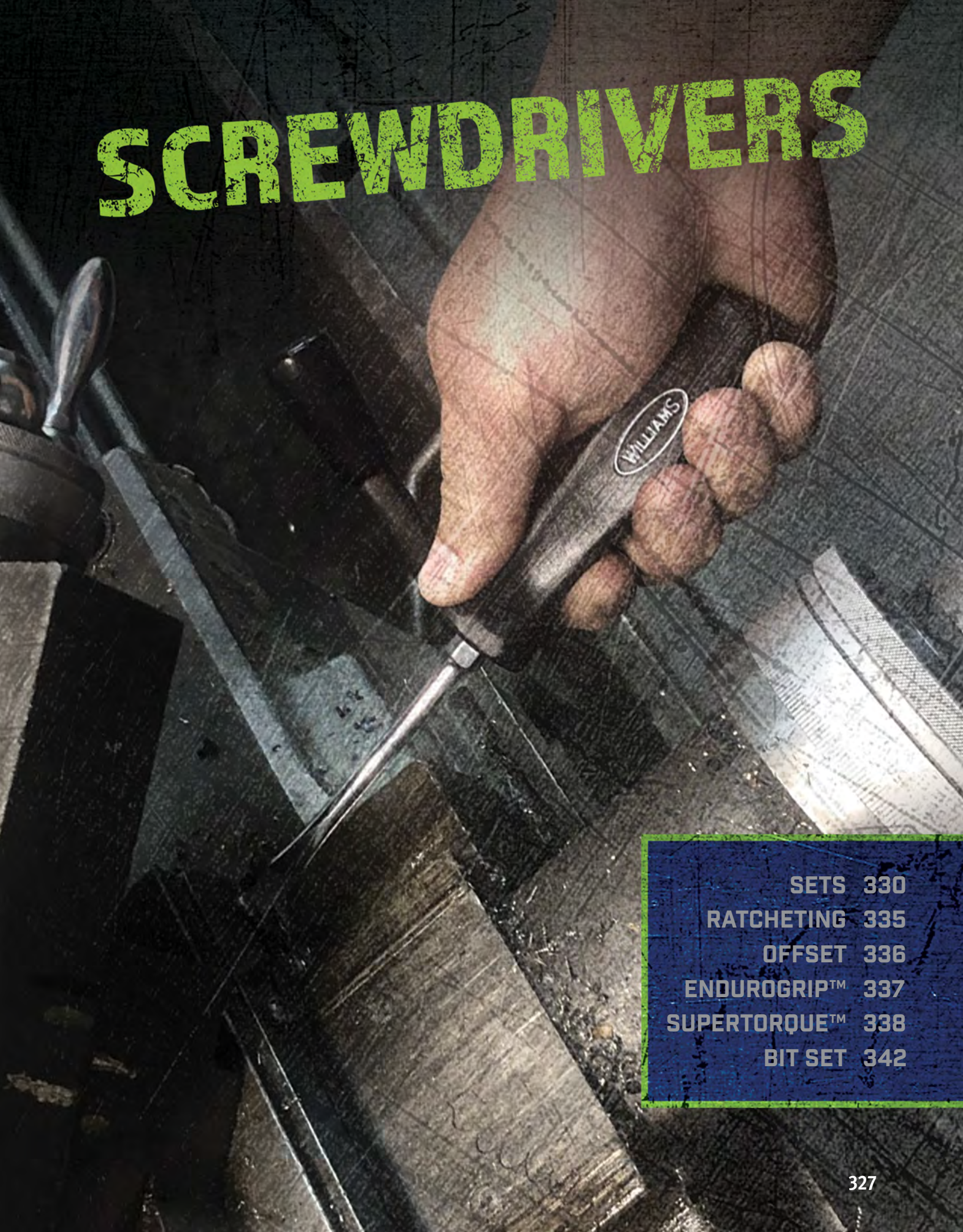
Features

- SUPERTORQUE™ lobular openings for greater turning power without deforming the fastener
- Designed for maximum engagement on 6 point fasteners
- Suitable for use with pneumatic and electric impact wrenches
- Specially heat treated for impact use to provide long life, safety, and durability

Made in U.S.A.

WARNING

SCREWDRIVERS



SETS 330
RATCHETING 335
OFFSET 336
ENDUROGRIP™ 337
SUPERTORQUE™ 338
BIT SET 342

WILLIAMS®

SUPERTORQUE™ SCREWDRIVERS

Hanging hole in the handle also permits T-bar insertion for transmission of additional force

3 component handle for maximum user comfort and force transmission

Double-shaped handle for use with both hands. Heavy duty design for maximum torque power

Indelible tip symbol by overflow for easy identification of the tip

Flat face prevents rolling

High performance, chrome plated alloy steel blade for high corrosion resistance

Laser marking on the blade (Size & COO)

Sand blasted tip for greater screw-tip adherence

8 Different Tip Styles Available

K	C	P	T	X	R	N	Z
Keystone Slotted	Cabinet Slotted	Phillips	Torx	Tamper-Torx	Square/ Robertson	Nutdriver Hex	Pozidriv

SCREWDRIVERS

COMFORT, POWER AND VERSATILITY

ENDUROGRIP™ SCREWDRIVERS

ENDUROGRIP™ handle with thumb stop allow for added turning power without discomfort or slippage

Hex bolsters on shafts allow a wrench to be used for extra turning power

Chrome blades prevent corrosion and can be easily cleaned

Blades are made from **special alloy steel** for extra strength

Vapor-blasted tips grip fasteners and prevent chipping, extending tool life

Flat face prevents rolling

3 Different Tip Styles Available

K	C	P
Keystone Slotted	Cabinet Slotted	Phillips

19 PIECE ENDUROGRIP™ AND SUPERTORQUE™ COMBINATION SCREWDRIVER SET

Premium Comfort Grip & Three Component handle with Black Oxide Tips

Product Code	Description
JHW100P-19MD	19 Piece ENDUROGRIP™ Combination Screwdriver Set

Contents Include:

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSDE-43	6 11/16	3	Cabinet Slotted 3/16"
JHWSDE-46	9 11/16	6	Cabinet Slotted 3/16"
JHWSPR-C-18-3	6	3	Cabinet Slotted 1/8"
JHWSPR-C-18-4	9	4	Cabinet Slotted 1/8"
JHWSPR-C-52-6	11 3/4	6	Cabinet Slotted 5/32"
JHWSDR-22	6 1/8	3	Keystone Slotted 3/16"
JHWSDS-62	3 1/2	1 3/4	Keystone Slotted 1/4" Stubby
JHWSDR-24	7 7/8	4	Keystone Slotted 1/4"
JHWSDR-26	10 11/16	6	Keystone Slotted 5/16"
JHWSDR-28	12 11/16	8	Keystone Slotted 3/8"
JHWSDS-33	17 13/16	12	Keystone Slotted 3/8"
JHWSPR-P-0-3	6 1/2	3	Phillips® #0
JHWSPR-P-1-3	7 3/4	3	Phillips® #1
JHWSDP-1-3	6 1/4	3	Phillips® #1
JHWSDP-2-4	7 15/16	4	Phillips® #2
JHWSDP-2-8	12	8	Phillips® #2
JHWSDP-3-6	10 1/2	6	Phillips® #3
JHWSDP-4-6	10 3/4	8	Phillips® #4
JHWSDP-2-ST	3 1/2	1 1/2	Phillips® #2 Stubby

Features

- Set contains a comprehensive assortment of screwdrivers to get the job done
- Williams comfort grip handle with thumb stop allow for added turning power without discomfort or slippage

JHW100P-19MD

8 PIECE ENDUROGRIP™ MIXED SCREWDRIVER SET

Comfort-Grip Handle With Round Blade

Product Code	Description
JHW100P-8MD	8 Piece ENDUROGRIP™ Screwdriver Set

Contents Include:

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSDR-24	7 7/8	4	Keystone Slotted 1/4"
JHWSDR-26	10 11/16	6	Keystone Slotted 5/16"
JHWSDR-28	12 3/4	8	Keystone Slotted 3/8"
JHWSDP-1-3	6 1/4	3	Phillips® #1
JHWSDP-2-4	7 15/16	4	Phillips® #2
JHWSDP-3-6	10 1/2	6	Phillips® #3
JHWSDE-43	6 11/16	3	Cabinet Slotted 3/16"
JHWSDE-46	9 11/16	6	Cabinet Slotted 3/16"

Features

- Contains 3 keystone slotted, 3 Phillips®, and 2 Cabinet Tip screwdrivers
- Comfort-grip handle with thumb stop allow for added turning power without discomfort or slippage
- Chrome blades prevent corrosion and can be easily cleaned
- Blades are made from special alloy steel for extra strength
- Vapor-blasted tips grip fasteners and prevent chipping, extending tool life
- Hex bolsters on shafts allow a wrench to be used for extra turning power

Made in U.S.A.

JHW100P-8MD

JHW100P-5MD

5 PIECE ENDUROGRIP™ MIXED SCREWDRIVER SET

Comfort-Grip Handle With Round Blade

Product Code	Description
JHW100P-5MD	5 Piece ENDUROGRIP™ Screwdriver Set Phillips® / Keystone Slotted Tips

Contents Include:

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSDR-22	6 1/8	3	Keystone Slotted 3/16"
JHWSDR-24	7 7/8	4	Keystone Slotted 1/4"
JHWSDR-26	10 11/16	6	Keystone Slotted 5/16"
JHWSDP-1-3	6 1/4	3	Phillips® #1
JHWSDP-2-4	7 15/16	4	Phillips® #2

Made in U.S.A.

JHW100P-6SD

6 PIECE ENDUROGRIP™ KEYSTONE SLOTTED SCREWDRIVER SET

Comfort-Grip Handle

Product Code	Description
JHW100P-6SD	6 Piece ENDUROGRIP™ Keystone Slotted Screwdriver Set

Contents Include:

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSDR-22	6 1/8	3	Keystone Slotted 3/16"
JHWSDR-24	7 7/8	4	Keystone Slotted 1/4"
JHWSDR-26	10 11/16	6	Keystone Slotted 5/16"
JHWSDR-28	12 11/16	8	Keystone Slotted 3/8"
JHWSDR-30	14 3/4	10	Keystone Slotted 7/16"
JHWSDS-33	17 13/16	12	Keystone Slotted 3/8"

Made in U.S.A.

JHW100P-6PD

6 PIECE ENDUROGRIP™ PHILLIPS® SCREWDRIVER SET

Comfort-Grip Handle With Round Blade

Product Code	Description
JHW100P-6PD	6 Piece ENDUROGRIP™ Phillips® Screwdriver Set

Contents Include:

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSDP-1-3	6 1/4	3	Phillips® #1
JHWSDP-2-4	7 15/16	4	Phillips® #2
JHWSDP-2-8	12	8	Phillips® #2
JHWSDP-3-6	10 1/2	6	Phillips® #3
JHWSDP-4-6	10 3/4	6	Phillips® #4
JHWSDP-2-ST	3 1/2	1 1/2	Phillips® #2 Stubby

Made in U.S.A.

ENDUROGRIP™ Screwdrivers Feature

- Comfort-grip handle with thumb stop allow for added turning power without discomfort or slippage
- Chrome blades prevent corrosion and can be easily cleaned
- Blades are made from special alloy steel for extra strength
- Vapor-blasted tips grip fasteners and prevent chipping, extending tool life
- Hex bolsters on shafts allow a wrench to be used for extra turning power

12 PIECE SUPERTORQUE™ COMBINATION SCREWDRIVER SET

Three Component Comfort Grip Handles

Product Code	Description
JHWSPRS-12CKPT	12 Piece SUPERTORQUE™ Combination Screwdriver Set

Contents Include:

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSPR-C-36-1	3 7/8	1 1/2	Cabinet Slotted 3/16"
JHWSPR-C-14-1	3 7/8	1 1/2	Cabinet Slotted 1/4"
JHWSPR-K-36-4	7 3/4	4	Keystone Slotted 3/16"
JHWSPR-K-14-4	8 1/4	4	Keystone Slotted 1/4"
JHWSPR-K-14-6	10 3/16	6	Keystone Slotted 1/4"
JHWSPR-K-56-6	10 9/16	6	Keystone Slotted 5/16"
JHWSPR-P-1-3	5 11/16	3	Phillips® #1
JHWSPR-P-2-1	3 7/8	1 1/2	Phillips® #2
JHWSPR-P-2-4	8 1/4	4	Phillips® #2
JHWSPR-P-3-6	10 9/16	6	Phillips® #3
JHWSPR-T-15-4	7 3/4	4	Torx® T15
JHWSPR-T-25-5	8 1/4	5	Torx® T25

Features

- Contains 2 cabinet slotted, 4 keystone slotted, 4 Phillips® and 2 TORX® screwdrivers
- 3 component handles provides a maximum comfort grip
- Size is shown on blade and tip style is shown on handle for easy identification
- Chrome blades prevent corrosion and can be easily cleaned
- Sand blasted tip for greater screw-tip adherence and high resistance against corrosion

JHWSPRS-12CKPT

8 PIECE SUPERTORQUE™ COMBINATION SCREWDRIVER SET

Three Component Comfort Grip Handles

Product Code	Description
JHWSPRS-8CKP	8 Piece SUPERTORQUE™ Combination Screwdriver Set

Contents Include:

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSPR-C-14-1	3 7/8	1 1/2	Cabinet Slotted 1/4"
JHWSPR-K-36-4	7 3/4	4	Keystone Slotted 3/16"
JHWSPR-K-14-4	8 1/4	4	Keystone Slotted 1/4"
JHWSPR-K-56-6	10 9/16	6	Keystone Slotted 5/16"
JHWSPR-K-38-8	12 9/16	8	Keystone Slotted 3/8"
JHWSPR-P-1-3	5 11/16	3	Phillips® #1
JHWSPR-P-2-1	3 7/8	1 1/2	Phillips® #2
JHWSPR-P-2-4	8 1/4	4	Phillips® #2

Features

- Contains 1 cabinet slotted, 4 keystone slotted and 3 Phillips® screwdrivers
- 3 component handles provides a maximum comfort grip
- Size is shown on blade and tip style is shown on handle for easy identification
- Chrome blades prevent corrosion and can be easily cleaned
- Sand blasted tip for greater screw-tip adherence and high resistance against corrosion

JHWSPRS-8CKP

JHWSPRS-6CK

6 PIECE SUPERTORQUE™ COMBINATION SCREWDRIVER SET

Component Comfort Grip Handles

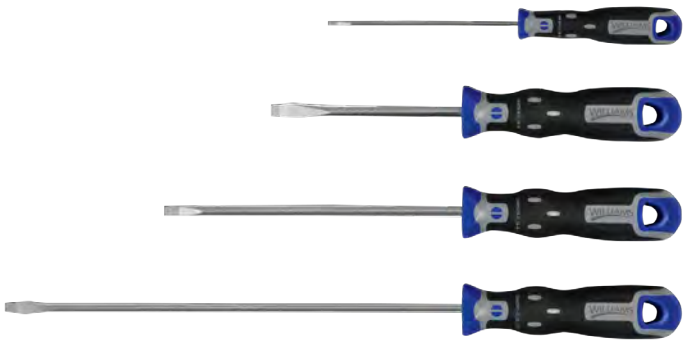
Product Code	Description
JHWSPRS-6CK	6 Piece SUPERTORQUE™ Combination Screwdriver Set

Contents Include:

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSPR-C-36-1	3 7/8	1 1/2	Cabinet Slotted 3/16"
JHWSPR-C-14-1	3 7/8	1 1/2	Cabinet Slotted 1/4"
JHWSPR-K-14-4	8 1/4	4	Keystone Slotted 1/4"
JHWSPR-K-36-4	7 3/4	4	Keystone Slotted 3/16"
JHWSPR-K-56-6	10 9/16	6	Keystone Slotted 5/16"
JHWSPR-K-38-8	12 9/16	8	Keystone Slotted 3/8"

Features

- Contains 2 cabinet slotted and 4 keystone slotted screwdrivers
- 3 component handles provides a maximum comfort grip
- Size is shown on blade and tip style is shown on handle for easy identification
- Chrome blades prevent corrosion and can be easily cleaned
- Sand blasted tip for greater screw-tip adherence and high resistance against corrosion



JHWSPRS-4C

4 PIECE SUPERTORQUE™ CABINET SLOTTED SCREWDRIVER SET

Three Component Comfort Grip Handles

Product Code	Description
JHWSPRS-4C	4 Piece SUPERTORQUE™ Cabinet Tip Screwdriver Set

Contents Include:

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSPR-C-18-4	6 11/16	4	Cabinet Slotted 1/8"
JHWSPR-C-36-4	6 13/16	4	Cabinet Slotted 3/16"
JHWSPR-C-36-6	9 3/4	6	Cabinet Slotted 3/16"
JHWSPR-C-36-10	13 11/16	10	Cabinet Slotted 3/16"

Features

- 3 component handles provides a maximum comfort grip
- Size is shown on blade and tip style is shown on handle for easy identification
- Chrome blades prevent corrosion and can be easily cleaned
- Sand blasted tip for greater screw-tip adherence and high resistance against corrosion

6 PIECE SUPERTORQUE™ PHILLIPS® SCREWDRIVERS SET

Three Component Comfort Grip Handles

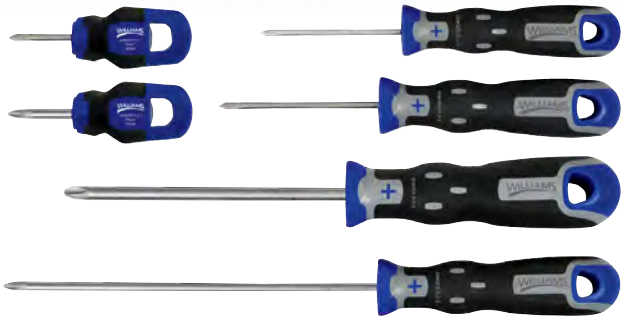
Product Code	Description
JHWSPRS-6P	6 Piece SUPERTORQUE™ Phillips® Screwdrivers Set

Contents Include:

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSPR-P-1-1	3 7/8	1 1/2	Phillips® #1
JHWSPR-P-1-3	5 1/16	3	Phillips® #1
JHWSPR-P-2-1	3 7/8	1 1/2	Phillips® #2
JHWSPR-P-2-4	8 1/4	4	Phillips® #2
JHWSPR-P-2-8	12 1/8	8	Phillips® #2
JHWSPR-P-3-6	10 9/16	6	Phillips® #3

Features

- 3 component handles provides a maximum comfort grip
- Size is shown on blade and tip style is shown on handle for easy identification
- Chrome blades prevent corrosion and can be easily cleaned
- Sand blasted tip for greater screw-tip adherence and high resistance against corrosion



JHWSPRS-6P

6 PIECE SUPERTORQUE™ TORX® SCREWDRIVER SET

Three Component Comfort Grip Handles

Product Code	Description
JHWSPRS-6T	6 Piece SUPERTORQUE™ TORX® Screwdriver Set

Contents Include:

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSPR-T-10-3	7 1/4	3	Torx® T10
JHWSPR-T-15-4	7 1/4	4	Torx® T15
JHWSPR-T-20-4	7 3/4	4	Torx® T20
JHWSPR-T-25-5	8 1/4	5	Torx® T25
JHWSPR-T-27-5	8 1/4	5	Torx® T27
JHWSPR-T-30-6	8 1/4	6	Torx® T30

Features

- 3 component handles provides a maximum comfort grip
- Size is shown on blade and tip style is shown on handle for easy identification
- Chrome blades prevent corrosion and can be easily cleaned
- Sand blasted tip for greater screw-tip adherence and high resistance against corrosion

JHWSPRS-6T

MAGNETIC RATCHETING SCREWDRIVER

JHWWRS-1

Comfort Grip Handle

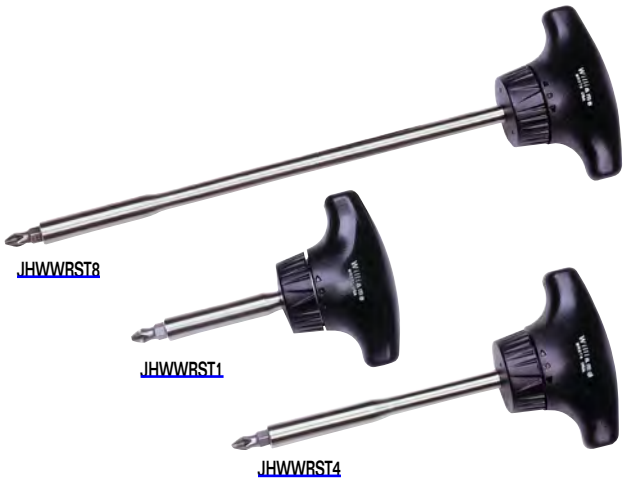
Product Code	Overall Length (Inches)	Blade Length (Inches)
JHWWRS-1	9	4

Features

- Includes 5 bits: 2 slotted, #1 Phillips®, #2 Phillips®, and T-15 TORX®
- Ergonomically designed handle for greater user comfort and control
- Hi-impact plastic handle for durability and flexibility in all types of work applications
- Heavy-duty 3-way on-off-locked ratcheting mechanism allows consistent and smooth operation
- Powerful magnetic shank securely holds bit in place before, during and after the job application
- Stainless steel shank eliminates problems of chrome chipping or rust.
- Easy bit storage in handle
- Accepts all standard 1/4" hex shank bits

Made in U.S.A.

T-HANDLE RATCHETING SCREWDRIVERS



JHWWRST8

JHWWRST1

JHWWRST4

Comfort Grip T-Handles

Product Code	Overall Length (Inches)	Blade Length (Inches)
JHWWRST1	3 7/8	2
JHWWRST4	5 13/16	3 7/8
JHWWRST8	9 13/16	7 7/8

Features

- Includes #2 Phillips® bit
- Ergonomically designed T-Handle fits the palm and provides extra leverage
- Hi-impact plastic handle for durability and flexibility in all types of work applications
- Heavy-duty 3-way On-Off-Locked ratcheting mechanism allows consistent and smooth operation
- Stainless steel shank eliminates problems of chrome chipping or rust
- Accept all standard 1/4" hex shank bits

Made in U.S.A.

1/4" HEX SHANK BIT HOLDER

3-Component Handle

Product Code	Overall Length (Inches)	Bits Included
JHWSPR-0-14-5	9 29/64	No

Features

- 3 component handle provides a maximum comfort grip

JHWSPR-0-14-5

MINI RATCHETING SCREWDRIVER

Satin Chrome Finish

Product Code	Overall Length (Inches)
807SXUSA	4

Features

- Smooth and consistent reverse ratcheting mechanism
- Perfect size for working in tight spaces and for hard to reach fasteners
- Tips are precision machined to fit precisely to fasteners

807SXUSA

OFFSET SCREWDRIVERS

Cushion Grip Handle

Product Code	Overall Length (Inches)	Tip
JHW24101	4	Slotted 3/16" x PH1
JHW24102	4	Slotted 1/4" x PH2
JHW24103	6	Slotted 5/16" x PH3
JHW24104	4	Phillips® # 1 x # 2
JHW24105	8	Phillips® # 3 x # 4

Features

- Blades are made from special alloy steel for extra strength
- One piece tool steel construction
- Tips are 90 degree angled

JHW24101

JHWSDE-46

ENDUROGRIP™ CABINET SLOTTED SCREWDRIVERS

ENDUROGRIP™ Comfort Grip Handles and Blades

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSDE-4	7 15/16	4	Cabinet Slotted 1/4"
JHWSDE-8	11 15/16	12	Cabinet Slotted 1/4"
JHWSDE-43	6 11/16	3	Cabinet Slotted 3/16"
JHWSDE-46	9 11/16	6	Cabinet Slotted 3/16"
JHWSDE-50	13 3/4	10	Cabinet Slotted 3/16"
JHWSDE-53	6 13/64	3	Cabinet Slotted 1/8"

Features

- Comfort-grip handle with thumb stop allow for added turning power without discomfort or slippage
- Hi-polish chrome blades prevent corrosion and can be easily cleaned
- Vapor-blasted tips grip fasteners and prevent chipping, extending tool life
- Blades are made from special alloy steel for extra strength

Made in U.S.A.

JHWSDR-24

ENDUROGRIP™ KEYSTONE SLOTTED SCREWDRIVERS

ENDUROGRIP™ Comfort Grip Handles and Blades

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSDS-62	3 1/2	1 3/4	Keystone Slotted 1/4"
JHWSDR-22	6 1/8	3	Keystone Slotted 3/16"
JHWSDR-24	7 7/8	4	Keystone Slotted 1/4"
JHWSDR-26	10 11/16	6	Keystone Slotted 5/16"
JHWSDR-28	12 11/16	8	Keystone Slotted 3/8"
JHWSDR-30	14 3/4	10	Keystone Slotted 7/16"
JHWSDS-33	17 13/16	12	Keystone Slotted 3/8"

Features

- Comfort-grip handle with thumb stop allow for added turning power without discomfort or slippage.
- Hi-polish chrome blades prevent corrosion and can be easily cleaned.
- Vapor-blasted tips grip fasteners and prevent chipping, extending tool life.
- Blades are made from special alloy steel for extra strength.
- *SDS-33 features 3/8" heavy-duty square shank

Made in U.S.A.

JHWSDP-2-4

ENDUROGRIP™ PHILLIPS® SCREWDRIVERS

ENDUROGRIP™ Comfort Grip Handles and Blades

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSDP-1-3	6 1/4	3	Phillips® #1
JHWSDP-2-4	7 15/16	4	Phillips® #2
JHWSDP-2-8	12	8	Phillips® #2
JHWSDP-3-6	10 1/2	6	Phillips® #3
JHWSDP-4-6	10 3/4	6	Phillips® #4
JHWSDP-2-ST	3 3/8	1 1/2	Phillips® #2 Stubby

Features

- Comfort-grip handle with thumb stop allow for added turning power without discomfort or slippage
- Hi-polish chrome blades prevent corrosion and can be easily cleaned
- Vapor-blasted tips grip fasteners and prevent chipping, extending tool life
- Blades are made from special alloy steel for extra strength
- Hex bolsters on shafts allow a wrench to be used for extra turning power

Made in U.S.A.

SUPERTORQUE™ KEYSTONE SLOTTED SCREWDRIVERS

Three Component Comfort Grip Handles

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSPR-K-14-4	8 1/4	4	Keystone Slotted 1/4"
JHWSPR-K-14-5	9 3/4	5	Keystone Slotted 1/4"
JHWSPR-K-14-6	10 3/16	6	Keystone Slotted 1/4"
JHWSPR-K-36-4	7 3/4	4	Keystone Slotted 3/16"
JHWSPR-K-36-6	9 3/4	6	Keystone Slotted 3/16"
JHWSPR-K-36-9	12 11/16	9	Keystone Slotted 3/16"
JHWSPR-K-38-12	16 1/2	12	Keystone Slotted 3/8"
JHWSPR-K-38-8	12 9/16	8	Keystone Slotted 3/8"
JHWSPR-K-56-6	10 9/16	6	Keystone Slotted 5/16"
JHWSPR-K-56-7	12 9/16	8	Keystone Slotted 5/16"
JHWSPR-K-72-4	8 3/4	4	Keystone Slotted 7/32"
JHWSPR-K-72-6	10 3/4	6	Keystone Slotted 7/32"

Features

- 3 component handles provides a maximum comfort grip
- Size is shown on blade and tip style is shown on handle for easy identification
- Chrome blades prevent corrosion and can be easily cleaned
- Sand blasted tip for greater screw-tip adherence and high resistance against corrosion

JHWSPR-K-56-7

SUPERTORQUE™ CABINET SLOTTED SCREWDRIVERS

Three Component Comfort Grip Handles

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSPR-C-14-1	3 1/4	1	Cabinet Slotted 1/4"
JHWSPR-C-36-1	3 7/8	1 1/2	Cabinet Slotted 3/16"
JHWSPR-C-18-3	6	3	Cabinet Slotted 1/8"
JHWSPR-C-36-4	6 13/16	4	Cabinet Slotted 3/16"
JHWSPR-C-32-3	7	3	Cabinet Slotted 3/32"
JHWSPR-C-94-3	7 3/4	3	Cabinet Slotted 9/64"
JHWSPR-C-52-4	8 3/4	4	Cabinet Slotted 5/32"
JHWSPR-C-18-4	9	4	Cabinet Slotted 1/8"
JHWSPR-C-94-5	9 3/4	5	Cabinet Slotted 9/64"
JHWSPR-C-36-6	9 3/4	6	Cabinet Slotted 3/16"
JHWSPR-C-14-6	10 3/4	6	Cabinet Slotted 1/4"
JHWSPR-C-52-6	11 3/4	6	Cabinet Slotted 5/32"
JHWSPR-C-18-8	12 1/2	8	Cabinet Slotted 1/8"
JHWSPR-C-36-10	13 11/16	10	Cabinet Slotted 3/16"

Features

- 3 component handles provides a maximum comfort grip
- Size is shown on blade and tip style is shown on handle for easy identification
- Chrome blades prevent corrosion and can be easily cleaned
- Sand blasted tip for greater screw-tip adherence and high resistance against corrosion

JHWSPR-C-18-4

JHWSPR-C-36-1

JHWSPR-P-1-1

JHWSPR-P-2-4

JHWSPR-Z-2-4

SUPERTORQUE™ PHILLIPS® SCREWDRIVERS

Three Component Comfort Grip Handles

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSPR-P-1-1	3 7/8	1 1/2	Phillips® #1
JHWSPR-P-2-1	3 7/8	1 1/2	Phillips® #2
JHWSPR-P-1-3	5 11/16	3	Phillips® #1
JHWSPR-P-2-4	8 1/4	4	Phillips® #2
JHWSPR-P-0-3	6 1/2	3	Phillips® #0
JHWSPR-P-2-6	10 3/16	6	Phillips® #2
JHWSPR-P-3-6	10 9/16	6	Phillips® #3
JHWSPR-P-2-8	12 1/8	8	Phillips® #2
JHWSPR-P-1-8	12 3/4	8	Phillips® #2

Features

- 3 component handles provides a maximum comfort grip
- Size is shown on blade and tip style is shown on handle for easy identification
- Chrome blades prevent corrosion and can be easily cleaned
- Sand blasted tip for greater screw-tip adherence and high resistance against corrosion

SUPERTORQUE™ POZIDRIV® SCREWDRIVERS

Three Component Comfort Grip Handles

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSPR-Z-0-3	7 1/4	3	Pozidriv® #0
JHWSPR-Z-1-3	7 3/4	3	Pozidriv® #1
JHWSPR-Z-2-4	8 3/4	4	Pozidriv® #2
JHWSPR-Z-3-6	10 3/4	6	Pozidriv® #3

Features

- 3 component handles provides a maximum comfort grip
- Size is shown on blade and tip style is shown on handle for easy identification
- Chrome blades prevent corrosion and can be easily cleaned
- Sand blasted tip for greater screw-tip adherence and high resistance against corrosion

SUPERTORQUE™ TAMPER-RESISTANT TORX® SCREWDRIVERS

Three Component Comfort Grip Handles

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSPR-X-10-3	7 3/8	3	Tamper Resist Torx® T10
JHWSPR-X-15-4	7 1/2	4	Tamper Resist Torx® T15
JHWSPR-X-20-4	8	4	Tamper Resist Torx® T20
JHWSPR-X-25-5	8	5	Tamper Resist Torx® T25
JHWSPR-X-27-5	8 3/4	5	Tamper Resist Torx® T27
JHWSPR-X-30-6	8 3/4	6	Tamper Resist Torx® T30
JHWSPR-X-40-6	11 5/8	6	Tamper Resist Torx® T40

Features

- 3 component handles provides a maximum comfort grip
- Size is shown on blade and tip style is shown on handle for easy identification
- Chrome blades prevent corrosion and can be easily cleaned
- Sand blasted tip for greater screw-tip adherence and high resistance against corrosion

JHWSPR-X-20-4

SUPERTORQUE™ TORX® SCREWDRIVERS

Three Component Comfort Grip Handles

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSPR-T-6-3	6	3	Torx® T6
JHWSPR-T-7-3	6 1/4	3	Torx® T7
JHWSPR-T-8-3	6 3/8	3	Torx® T8
JHWSPR-T-9-3	7 1/4	3	Torx® T9
JHWSPR-T-10-3	7 3/8	3	Torx® T10
JHWSPR-T-15-4	7 1/2	4	Torx® T15
JHWSPR-T-20-4	8	4	Torx® T20
JHWSPR-T-25-5	8	5	Torx® T25
JHWSPR-T-27-5	8 3/4	5	Torx® T27
JHWSPR-T-30-6	8 3/4	6	Torx® T30
JHWSPR-T-40-6	11 1/2	6	Torx® T40
JHWSPR-T-45-6	11 1/2	6	Torx® T45

Features

- 3 component handles provides a maximum comfort grip
- Size is shown on blade and tip style is shown on handle for easy identification
- Chrome blades prevent corrosion and can be easily cleaned
- Sand blasted tip for greater screw-tip adherence and high resistance against corrosion

JHWSPR-T-20-4

JHWSPR-R-3-6

SUPERTORQUE™ ROBERTSON® SCREWDRIVERS

Three Component Comfort Grip Handles

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip
JHWSPR-R-1-4	8	4	Robertson® #1 (5, 6, 7)
JHWSPR-R-2-5	8	5	Robertson® #2 (8, 9, 10)
JHWSPR-R-3-6	8 3/4	6	Robertson® #3 (12, 14)

Features

- 3 component handles provides a maximum comfort grip
- Size is shown on blade and tip style is shown on handle for easy identification
- Chrome blades prevent corrosion and can be easily cleaned
- Sand blasted tip for greater screw-tip adherence and high resistance against corrosion

JHWSPR-N-7-6

SUPERTORQUE™ NUTDRIVERS, SAE

Three Component Comfort Grip Handles

Product Code	Overall Length (Inches)	Blade Length (Inches)	Point Size
JHWSPR-N-5-6	10	6	5
JHWSPR-N-6-6	10	6	6
JHWSPR-N-7-6	10	6	7
JHWSPR-N-8-6	10	6	8
JHWSPR-N-9-6	10	6	9

Features

- 3 component handles provides a maximum comfort grip
- Size is shown on blade and tip style is shown on handle for easy identification
- Chrome blades prevent corrosion and can be easily cleaned
- Sand blasted tip for greater screw-tip adherence and high resistance against corrosion

72 PIECE BIT SET

Product Code	Description
JHW24900	72 Piece Bit Set

JHW24900

Contents Include:

Hex (10)

Size	QTY	Length
1/4	2	1"
3/16	2	1"
5/16	2	1"
5/32	2	1"
7/32	2	1"

Phillips® (13)

Size	QTY	Length
1	3	1"
2	4	1"
3	2	1"
1	1	2"
2	2	2"
3	1	2"

Pozidriv® (7)

Size	QTY	Length
2	3	1"
3	2	1"
2	1	2"
3	1	2"

Square (6)

Size	QTY	Length
2	2	1"
3	2	1"
2	2	2"

Slotted Tip (12)

Size	QTY	Length
6-8	3	1"
8-10	2	1"
10-12	2	1"
12-14	1	1"
8-10	2	2"
10-12	1	2"
12-14	1	2"

TORX® (15)

Size	QTY	Length
7	1	1"
8	1	1"
10	1	1"
15	1	1"
20	1	1"
25	1	1"
27	1	1"
30	1	1"
30	2	1"
40	2	1"
15	1	2"
20	1	2"
25	1	2"

Nut Driver (8)

Size	QTY	Length
1/4	1	1"
11/32	1	1"
3/16	1	1"
3/8	1	1"
5/16	1	1"
5/32	1	1"
7/16	1	1"
9/32	1	1"

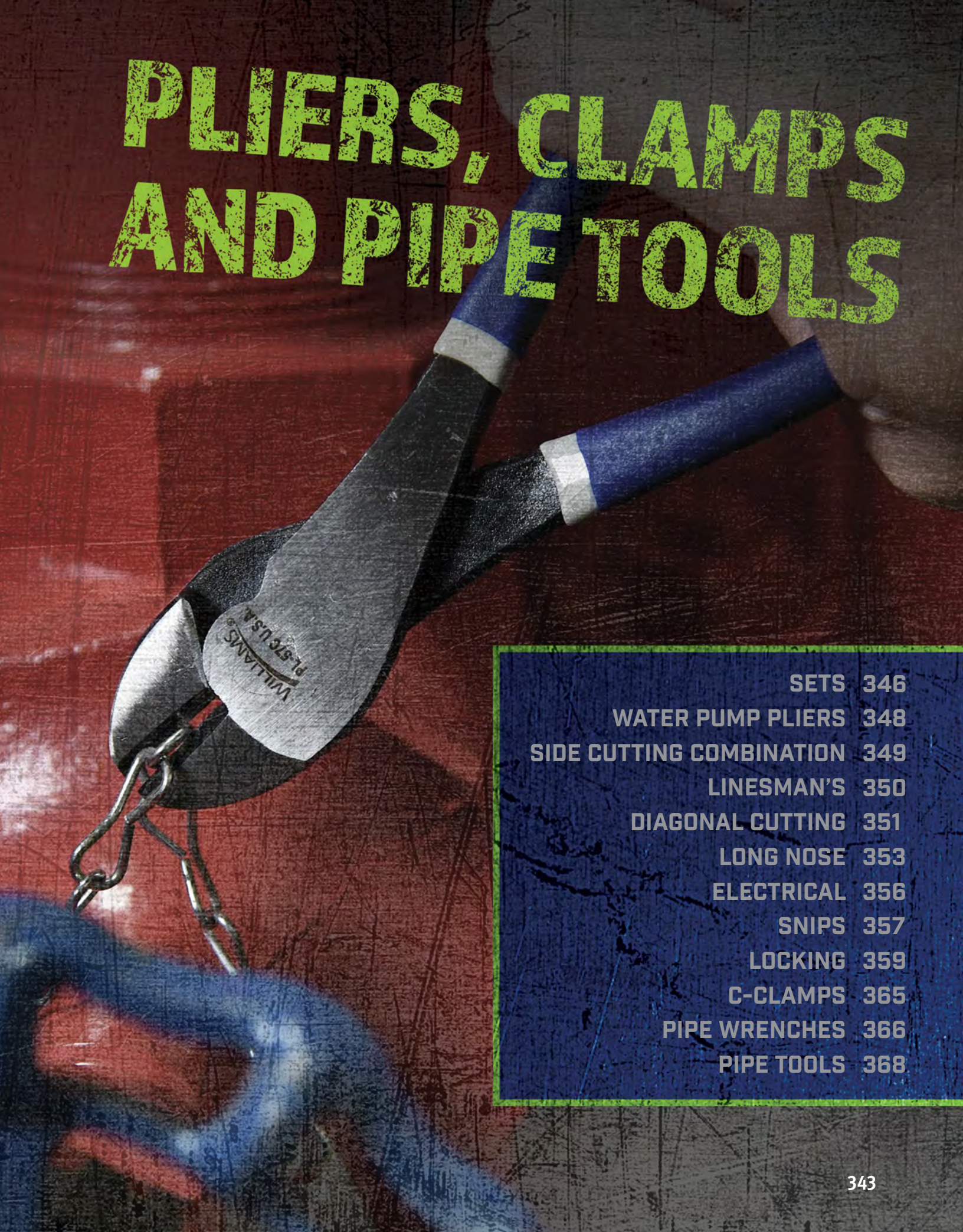
Hex Magnetic Holder (1)

Description
Hex Magnetic Holder

Features

- S2 material for higher torque, optimum durability and performance
- All parts are engineered and produced according to ANSI standard
- The set also includes a magnetic bit holder allowing for quick change of driving bits
- Folding case design is compact and robust with pivoting dual bit holders that allow for easy and quick access to the accessories
- Industrial case is made from a highly durable, plastic material

PLIERS, CLAMPS AND PIPE TOOLS



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WILLIAMS®

SIDE CUTTING COMBINATION PLIERS

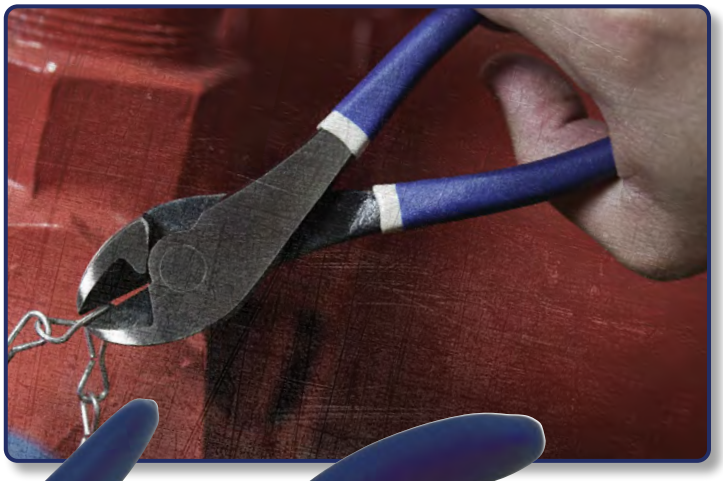
Ergonomically designed two-component handles provide durability and a comfortable, secure, non-slip grip

High-leverage joint placement to reduce the required cutting force

Joint design ensures a smooth joint action

Heavy-duty design - high performance tool steel construction adds extra strength

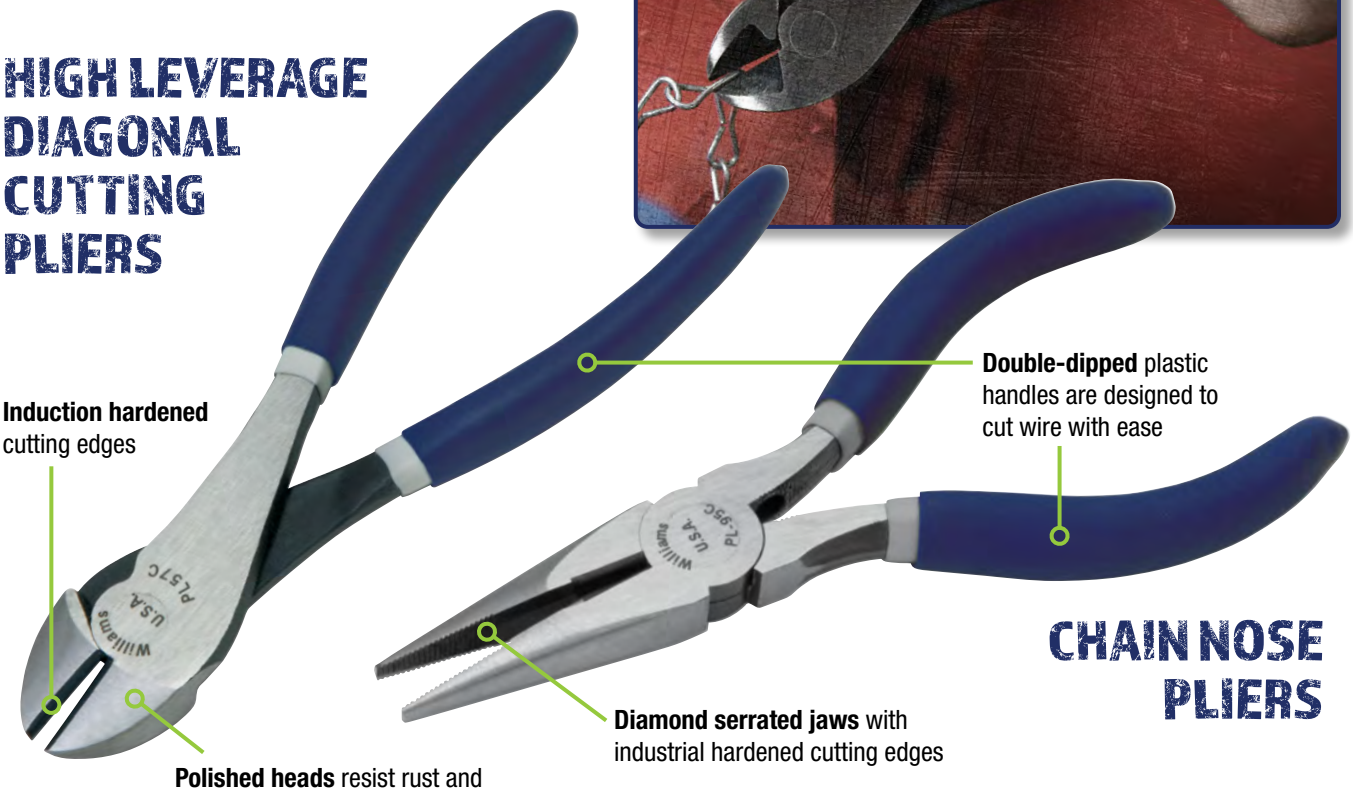
On/Off return spring for higher comfort and higher frequency cutting may be turned off for storage in belt or pocket



HIGH LEVERAGE DIAGONAL CUTTING PLIERS

Induction hardened cutting edges

Double-dipped plastic handles are designed to cut wire with ease



CHAIN NOSE PLIERS

Diamond serrated jaws with industrial hardened cutting edges

Polished heads resist rust and corrosion, extending the tool life

PLIERS, CLAMPS AND PIPE TOOLS

SECURED GRIP. ASSURED SUCCESS.

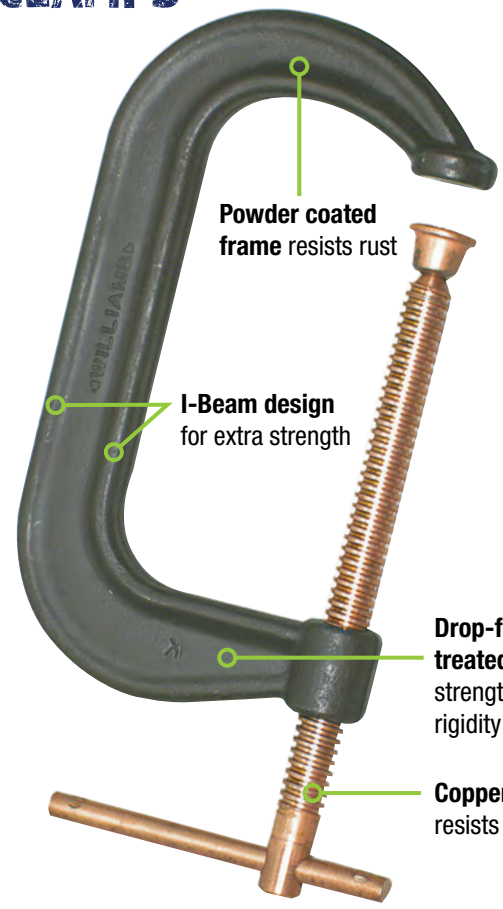
ADJUSTABLE JOINT PLIERS

Hardened jaws and teeth for exceptionally tough gripping surface

Wide, deep opening jaws have flat and pipe grip jaw so one pair of pliers can be used for more jobs

Double-dipped plastic handles are designed to cut wire with ease

C-CLAMPS



Powder coated frame resists rust

I-Beam design for extra strength

Drop-forged and heat treated for maximum strength and greater rigidity

Copper plated screw resists weld splatter

PIPE WRENCHES

Scale on wrench indicates pipe diameter

Heavy duty construction for strength and durability

WILLIAMS

17 PIECE COMBINATION PLIER SET

Product Code	Description
JHWPLS-17	17 Piece Combination Plier Set

Contents Include:

Product Code	Description	Handle Type
JHWPL-8C	8" Slip Joint	Double Dipped Plastic Handles
JHWPL-1520C	9 ¾" Groove Joint	Double Dipped Plastic Handles
JHWPL-1524C	15 ¾" Groove Joint	Double Dipped Plastic Handles
JHWPL-47C	7" Heavy Duty Diagonal Cutting	Double Dipped Plastic Handles
JHWPL-126C	6 ¼" Curved Chain Nose	Double Dipped Plastic Handles
JHWPL-98C	8" long nose	Double Dipped Plastic Handles
JHW23503	8 ¼" Multi-Purpose Wire Cutter	Double Dipped Plastic Handles with Curved Wire Cutter
JHW23542	5 ½" Mini Wire Cutter	Double Dipped Plastic Handles with Curved Wire Cutter
JHWPL-209X	9" Heavy Duty Linesman	Double Dipped Plastic and Bi-Mold Comfort Grip Handles
JHW2628G-7	7" Side Cutting Combination	Ergonomically Designed Handles
JHW6224	10" Water Pump	Double Dipped Plastic Handles
JHW2979D-7	7" Nut Gripping	Heavy Duty Design with PVC Grips
JHWPL-146C	6 ½" Duck Bill	Double Dipped Plastic Handles
JHWPL-167	7 ½" End Cutting	Double Dipped Plastic Handles
JHWPL-211BC	11" Bent Nose	Double Dipped Plastic Handles
JHWPL-211C	11" Long Reach Chain Nose	Double Dipped Plastic Handles
JHWPL-411C	11" Extra Long Diagonal	Double Dipped Plastic Handles

Features

- Double-dipped plastic handle grips are comfortable yet durable
- Ergo handles provide maximum gripping comfort

JHWPLS-17

6 PIECE GENERAL SERVICE PLIERS SET

Double-Dipped Plastic Handles

Product Code	Description
JHWPLS-6A	6 Piece General Service Pliers Set

Contents Include:

Product Code	Description
JHWPL-1519C	5" utility superjoint
JHWPL-1520C	10" utility superjoint
JHWPL-46C	6" diagonal cutting
JHWPL76C	6 1/2" chain nose side cutters
JHW2628G-6	6" side cutting combination
JHW23503	8 1/4" front-end stripper

Features

- Combines Williams' most popular pliers in to a single set
- 6 piece set packaged in a pouch

JHWPLS-6A

WARNING

4 PIECE COMBINATION PLIERS SET

Double-Dipped Plastic Handles

Product Code	Description
JHWPLS-4GL	4 Piece Combination Pliers Set

Contents Include:

Product Code	Description
JHWPL-1523C	12" Utility Superjoint Pliers
JHWPL205C	8 1/2" Industrial Grade Linesman's Pliers
JHWPL-47C	7" Industrial Grade Diagonal Cutting Pliers
JHWPL116C	7" Long Nose Needle Pliers

Features

- Double-dipped plastic handle grips are comfortable yet durable
- Jaws are polished with rust-protective coating
- Packaged in a bag

Made in U.S.A.

4 PIECE COMBINATION PLIERS SET

Double-Dipped Plastic Handles

Product Code	Description
JHWPLS-4SG	4 Piece Combination Pliers Set

Contents Include:

Product Code	Description
JHWPL-8C	8" Combination Slip Joint Pliers
JHWPL-1520C	10" Utility Superjoint Pliers
JHWPL-47C	7" Industrial Grade Diagonal Cutting Pliers
JHWPL116C	7" Long Nose Needle Pliers

Features

- Double-dipped plastic handle grips are comfortable yet durable
- Jaws are polished with rust-protective coating
- Packaged in a bag

Made in U.S.A.

WILLIAMS

UTILITY SUPERJOINT PLIERS

Double-Dipped Plastic Handles

Features	Overall Length (Inches)	Maximum Opening (Inches)	Tip Width (Inches)
JHWPL-1519C	5	1/2	3/16
JHWPL-1520C	10	1 1/2	5/16
JHWPL-1523C	12	2 5/8	1/2
JHWPL-1524C	16	4	1/2

Features

- Multiple parallel jaw positions are locked in to proper groove for superior non-slip performance
- Serrated jaws for maximum gripping power
- Polished heads resist rust and corrosion, extending the tool life

Made in U.S.A.

JHWPL-1524C

WATER PUMP PLIERS

Product Code	Overall Length (Inches)	Maximum Jaw Opening (Inches)	Tip Width (Inches)
JHW6223	8	1 3/4	1/2
JHW6224	10	2 3/8	1/2
JHW6225	12	2 5/8	1/2

Features

- Hardened jaws and teeth for exceptionally tough gripping surface
- Comfortable two-component handles combines durability and a secure non-slip grip
- Wide, deep opening jaws have flat and pipe grip jaw so one pair of pliers can be used for more jobs

JHW6224

UNIVERSAL PLIERS WRENCHES

With Comfort Grip

Product Code	Overall Length (Inches)	Maximum Jaw Opening (Inches)	Pipe Maximum Diameter (Inches)
JHW140	8 7/16	1 3/16	3/4
JHW141	11	1 3/8	1
JHW142	14 1/2	2 1/16	1 1/2
JHW143	21 7/8	3 1/16	2 1/2
JHW144	28 3/8	4 3/8	3 1/2

Features

- Black oxide and anti-rust treated high alloy steel provide long life and durability
- Precision induction hardened jaws are designed with inwardly angled aggressive teeth
- Outer part of jaw is large toothed and used for maximum grip on large diameter pipes
- Inner part of jaw is fine toothed and used for maximum grip on small diameter pipes
- Commonly called a “Swedish Pipe Wrench”, the small head makes them ideal for working in confined areas

JHW142

WARNING

JHWPL-8C

COMBINATION SLIP-JOINT PLIERS

Double-Dipped Plastic Handles

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Tip Width (Inches)
JHWPL-6C	6	1 5/32	3/8
JHWPL-8C	8	1 13/32	3/8
JHWPL-10C	10	1 13/32	1/2

Features

- Multiple parallel jaw positions are locked in to proper groove for superior non-slip performance
- Serrated jaws for maximum gripping power
- Polished heads resist rust and corrosion, extending the tool life
- Shear type wire cutter extends tool use

Made in U.S.A.

JHW2628G-6

SIDE CUTTING COMBINATION PLIERS

Handles with Bi-Molded Grips and On/Off Return Spring

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Maximum Cutting Capacity (Inches)
JHW2628G-6	6 1/4	1 5/16	1/16 Hard Steel
JHW2628G-7	7	1 7/16	5/64 Hard Steel
JHW2628G-8	8	1 1/2	7/64 Hard Steel

Features

- On/off return spring for higher comfort and higher frequency cutting may be turned off when tool is kept in belt or pocket
- High-leverage joint placement to reduce the cutting force. Joint design ensures a smooth joint action
- Heavy-duty design - high performance tool steel construction adds extra strength
- Comfortable two-component handles which combines durability and a secure non-slip grip

JHW2979D-7

NUT GRIPPING PLIERS

Heavy-Duty Design with PVC Grips

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Tip Width (Inches)
JHW2979D-7	7	1/2	7/16

Features

- Conical jaws with teeth facing inward provide maximum gripping power
- Heavy-duty design combined with high performance tool steel construction adds extra strength

WILLIAMS®

END CUTTING NIPPERS

Double-Dipped Plastic Handles

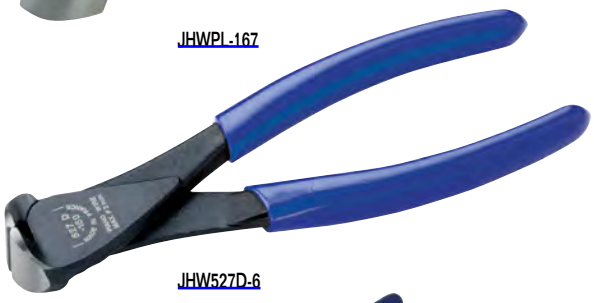
Product Code	Overall Length (Inches)	Cutting Blade Length (Inches)
JHWPLM-2C	4 1/2	15/32
JHWPL-167	7 1/2	13/16
JHW527D-6	6 1/4	1/4

Features

- Ideal for cutting wire or nails that are close to the work
- Polished heads resist rust and corrosion, extending the tool life
- The wide throat clearance, width of blades and angles of the cutting edges along with the handle leverage provide for easy, clean cutting or nipping

Made in U.S.A.

JHWPL-167



JHW527D-6

INDUSTRIAL GRADE LINESMAN'S PLIERS

Double-Dipped Plastic Handles

Product Code	Description	Overall Length (Inches)	Jaw Length (Inches)
JHWPL-204C	Electrician's	7	1/2
JHWPL-205C	Electrician's	8 1/2	17/32
JHWPL-209X	New England	9 1/2	3/4

Features

- Designed for wiring, electrical equipment installation and maintenance for utility linemen
- Polished faces look good and resist corrosion
- Induction hardened cutting edges stay sharp longer
- Diamond serrated jaws provide solid grip on wire
- Double-dipped plastic handle grips are comfortable yet durable

Made in U.S.A.

JHWPL-204C

JHWPL-209X

INDUSTRIAL GRADE LINESMAN'S PLIERS

Supplied Without Grips

Product Code	Description	Overall Length (Inches)	Jaw Length (Inches)
JHWPL-208	Linesman's	8 1/2	17/32
JHWPL-209	New England	9 1/2	3/4

Features

- Designed for wiring, electrical equipment installation and maintenance for utility linemen
- Polished heads resist rust and corrosion, extending the tool life
- Induction hardened cutting edges stay sharp longer
- Diamond serrated jaws provide solid grip on wire
- Supplied without grips - handles are bare steel

Made in U.S.A.

JHWPL-208

JHWPL-209

⚠WARNING

JHWPL-57C

JHWPL-411C

JHWPL-46C

JHWPL-40CS

JHW21HDG-6

HIGH LEVERAGE DIAGONAL CUTTING PLIERS

Double-Dipped Plastic Handles

Product Code	Description	Overall Length (Inches)	Cutting Blade Length (Inches)
JHWPL-57C	High Leverage Head	7 1/4	15/16
JHWPL-411C	Extra Long Handle, Offset Head	11	1

Features

- Handles are designed to cut wire with ease
- Polished heads resist rust and corrosion, extending the tool life
- Induction hardened cutting edges

Made in U.S.A.

INDUSTRIAL GRADE DIAGONAL CUTTING PLIERS

Double-Dipped Plastic Handles

Product Code	Overall Length (Inches)	Cutting Blade Length (Inches)
JHWPL-44C	4	17/32
JHWPL-45C	5	11/16
JHWPL-46C	6	3/4
JHWPL-47C	7	11/16

Features

- Handles are designed to cut wire with ease
- Polished heads resist rust and corrosion, extending the tool life
- Induction hardened cutting edges
- Regular flush cutters are used for cutting hard wire

Made in U.S.A.

FLUSH CUT DIAGONAL CUTTING PLIERS WITH SPRING

Double-Dipped Plastic Handles

Product Code	Overall Length (Inches)	Cutting Blade Length (Inches)
JHWPLM-1CS	4 1/4	17/32
JHWPL-40CS	5	11/16

Features

- Handles are designed to cut wire with ease
- Polished heads resist rust and corrosion, extending the tool life
- Induction hardened cutting edges
- Flush cutters are used for close cutting of medium wire

Made in U.S.A.

HEAVY DUTY SIDE CUTTING PLIERS

Handles with Bi-Molded Grips and On/Off Return Spring

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Maximum Cutting Capacity (Inches)
JHW21HDG-5.5	5 1/2	5/8	5/64 Piano Wire
JHW21HDG-6	6 1/4	3/4	3/32 Piano Wire
JHW21HDG-7	7	13/16	1/8 Piano Wire
JHW21HDG-8	7 3/4	13/16	1/8 Piano Wire

Features

- Distance from joint to center of cutting edges is reduced for greater leverage and increased cutting capacity
- Equipped with a patented return spring featuring an on/off function; turn on to reduce handle fatigue, off to store in tool belt or pocket
- Phosphate finish, anti-corrosion treated
- Heavy-duty cutting edge
- Screw joint that provides excellent running and accurate alignment of the cutting edges
- Distance from the joint to the center of the cutting edges is reduced: giving greater leverage and increased cutting capacity
- Metal frame designed to enhance accessibility in confined spaces
- Equipped with a patented return spring featuring an on/off function
- Induction hardened cutting edges
- Maximum comfort with minimum effort due to the handle design
- Comfortable two-component handles giving an excellent grip
- Self-opening handles when spring activated

WILLIAMS®

FLAT NOSE PLIERS

Handles with Bi-Molded Grips and On/Off Return Spring

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Width at Tip (Inches)
JHW2420G-5	5	7/8	5/8

JHW2420G-5

Features

- Comfortable two-component handles which combines durability and a secure non-slip grip
- Unique on-off return spring: turn on to reduce hand fatigue, off to store in tool belt or pocket
- High performance tool steel construction adds extra strength
- Saw-toothed shaped, serrated jaws provide maximum gripping surface

LONG NOSE PLIERS

Handles with Bi-Molded Grips and On/Off Return Spring

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Maximum Cutting Capacity (Inches)
JHW2430G-5.5	5 1/2	1 1/2	3/64 Hard Steel
JHW2430G-6	6 1/4	1 15/16	1/16 Hard Steel
JHW2430G-8	8	1 15/16	1/16 Hard Steel

JHW2430G-6

Features

- Comfortable two-component handles which combines durability and a secure non-slip grip
- Unique on-off return spring: turn on to reduce hand fatigue, off to store in tool belt or pocket
- High performance tool steel construction adds extra strength

PLASTIC CUTTING DIAGONAL PLIERS

Double-Dipped Plastic Handles

Product Code	Overall Length (Inches)	Cutting Blade Length (Inches)
JHWPL-48C	6 3/8	7/8
JHWPL-49C	7 1/2	1 1/8

JHWPL-48C

Features

- Polished heads resist rust and corrosion, extending the tool life
- Induction hardened cutting edges

Made in U.S.A.

SIDE CUTTING PLIERS FOR PLASTIC

Handles with Bi-Molded Grips and On/Off Return Spring

Product Code	Overall Length (Inches)	Jaw Length	Maximum Cutting Capacity
JHW2101PG-7	6 1/4	3/4	1 1/2

JHW2101PG-7

Features

- Full flush cutting edge without beveling which is designed to smoothly cut all kinds of plastic parts such as the flash of plastic components
- Suitable for bridle cutting
- Comfortable two-component handles which combines durability and a secure non-slip grip
- Extra wide handle two-component material reduces stress ans strain, and to increase comfort
- Lacquer finish protects against rust
- High Frequency hardened cutting edges hold their precision-sharpened cutting surfaces
- Unique on-off return spring: turn on to reduce handle fatigue, off to store in tool belt or pocket

⚠WARNING

JHW2427G-6

60° CURVED NOSE PLIERS

Handles with Bi-Molded Grips and On/Off Return Spring

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Maximum Cutting Capacity (Inches)
JHW2427G-6	6 1/4	1 13/16	5/64 Hard Steel
JHW2427G-8	7	2 3/4	5/64 Hard Steel

Features

- Comfortable two-component handles which combines durability and a secure non-slip grip
- Unique on-off return spring: turn on to reduce hand fatigue, off to store in tool belt or pocket
- High performance tool steel construction adds extra strength

JHW2521G-6

LONG NOSE PLIERS

Handles with Bi-Molded Grips and On/Off Return Spring

Product Code	Overall Length (Inches)	Jaw Length (Inches)
JHW2521G-6	6 1/4	1 1/4

Features

- Comfortable two-component handles which combine durability and a secure non-slip grip
- Unique on-off return spring: turn on to reduce handle fatigue, off to store in tool belt or pocket
- Perfect for wire bending

JHWPL-211C

JHWPL-211BC

EXTRA LONG REACH CHAIN NOSE PLIERS

Double-Dipped Plastic Handles

Product Code	Description	Overall Length (Inches)	Jaw Length (Inches)
JHWPL-211C	Straight Jaw	11	2 13/16
JHWPL-211BC	45° Bent Nose	11	2 9/16

Features

- Polished heads resist rust and corrosion, extending the tool life
- Extra long handles provide access into confined areas and greater holding power at the tip
- Bent nose model provides access to obstructed areas

Made in U.S.A.

JHWPL-98C

HIGH LEVERAGE CHAIN NOSE PLIERS

Double-Dipped Plastic Handles

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Width at Tip (Inches)
JHWPL-98C	8	1 7/32	3/32

Features

- Polished heads resist rust and corrosion, extending the tool life
- Longer handles for more convenient use and greater jaw gripping power

Made in U.S.A.

WILLIAMS®

CHAIN NOSE PLIERS

Double-Dipped Plastic Handles

Product Code	Description	Overall Length (Inches)	Jaw Length (Inches)
JHWPL-95C	Short Nose w/cutter	5 1/2	1 5/32
JHWPL-75C	Long Nose	6 3/4	2 5/16
JHWPL76C	Long Nose w/cutter	6 1/2	1 5/16
JHWPL-77C	Extra Long Nose w/cutter	7 1/2	1 29/32

Features

- Polished heads resist rust and corrosion, extending the tool life
- Diamond serrated jaws with industrial hardened cutting edges

Made in U.S.A.

JHWPL-95C

JHWPL-75C

THIN BENT CHAIN NOSE PLIERS

Double-Dipped Plastic Handles

Product Code	Description	Overall Length (Inches)	Jaw Length (Inches)
JHWPL-126C	73° Bent Thin Nose	6 1/4	1 1/4

Features

- Polished heads resist rust and corrosion, extending the tool life
- Serrated jaws for extra gripping power
- 73° bent nose model featured thin jaws angled to reach around obstacles and hard-to-reach spaces

Made in U.S.A.

JHWPL-126C

NEEDLE NOSE PLIERS

Double-Dipped Plastic Handles

Product Code	Description	Overall Length (Inches)	Jaw Length (Inches)
JHWPL-114CS	Short Nose	4 1/2	1
JHWPL116C	Long Nose	7	2 3/16

Features

- Polished heads resist rust and corrosion, extending the tool life
- Serrated jaws provide extra gripping power
- The JHWPL-114CS short nose model is supplied with a spring and is designed for close, fine electrical and mechanical work
- The JHWPL116C long nose model provides excellent gripping ability for use in tight, narrow places

Made in U.S.A.

JHWPL-114CS

JHWPL116C

WARNING

JHWPL-146C

JHWPL-149C

DUCK BILL PLIERS

Double-Dipped Plastic Handles

Product Code	Description	Overall Length (Inches)	Jaw Length (Inches)
JHWPL-146C	Standard Jaw	6 ½	2 1/16
JHWPL-149C	High Leverage	8	1 ¼

Features

- Jaws are polished with rust-protective coating
- Flat wide nose provides a better grip than the regular needle nose models

Made in U.S.A.

JHW23503

JHW23524

MULTI-PURPOSE COMBINATION WIRE TOOLS

Double-Dipped Plastic Handles with Curved Wire Cutter

Product Code	Description	Overall Length (Inches)	Nose Style
JHW23503	Front-end Stripper	8 1/4	Serrated Pliers
JHW23524	Front-end Crimper	8 3/4	Anvil Cutter

Features

- Crimp and strip wire sizes 10-22 AWG
- Double-dipped handles with air cushion pockets provide comfortable grip, reducing hand fatigue
- 23503 cuts 6 bolt sizes: 4-40 / 5-40 / 6-32 / 8-32 / 10-32 / 10-24
- 23524 cuts 5 bolt sizes: 4-40 / 6-32 / 8-32 / 10-32 / 10-24

Made in U.S.A.

WILLIAMS®

ELECTRICAL MINI PLIERS

Double-Dipped Plastic Handles

Product Code	Description	Overall Length (Inches)	Capacity (AWG)
JHW23541	Mini Cutter	5 1/2	8
JHW23542	Mini Stripper	5 1/2	8-18 Solid/10-22 Stranded
JHW23543	Mini Crimper	5 1/2	10-22

JHW23080 3 Piece Electrical Mini Pliers Set in Pouch

Contents Include:

Product Code	Description	Product Code	Description
JHW23541	Mini Cutter	JHW23543	Mini Crimper
JHW23542	Mini Stripper		

Features

- Double-dipped handles with air cushion pockets provide comfortable grip, reducing hand fatigue
- Cutter is hardened and precision-ground for cutting stranded and solid copper and aluminum wire
- Stripper features up-front precision-ground stripping stations for exacting results in tight spaces
- Crimper features front-end crimp pockets guaranteed to be free from burrs and sharp edges

Made in U.S.A.

JHW23541

JHW23542

JHW23543

HEAVY DUTY FRONT END WIRE STRIPPERS

Double-Dipped Plastic Handles

Product Code	Overall Length (Inches)	Capacity (AWG-solid wire)	Capacity (stranded wire)
JHW23506	6 1/4	10-20	12-20
JHW23518	6 1/4	14-24	16-26
JHW23521	6 1/4	22-30	24-32

Features

- Double-dipped handles with air cushion pockets provide comfortable grip, reducing hand fatigue
- Spring-loaded handles speed work and reduce hand effort
- Serrated gripping jaws in nose for use as pliers
- 2-piece hardened steel pivot for long life service
- Lock protects cutting edges in storage

Made in U.S.A.

JHW23506

SUPER-DUTY FRONT END WIRE STRIPPERS WITH BOLT CUTTERS

Double-Dipped Plastic Handles with Curved Wire Cutter

Product Code	Overall Length (Inches)	Capacity (AWG-solid wire)	Capacity (stranded wire)
JHW23533	7 1/4	10-18	12-20
JHW23535	7 1/4	20-30	22-32

Features

- Double-dipped handles with air cushion pockets provide comfortable grip, reducing hand fatigue
- Longer, curved handles provide extra leverage and greater comfort
- Serrated gripping jaws in nose for use as pliers
- Built-in bolt cutters cleanly cut 6-32 and 8-32 screws

Made in U.S.A.

JHW23533

⚠WARNING

AVIATION SNIPS

Bi-Mold Comfort Grip Handles

Product Code	Cutting Direction	Overall Length (Inches)	Cut Length (Inches)	Cutting Capacity (cold-rolled/stainless)
JHW28201	Left	9 3/4	1 3/8	18 ga. CR / 22 ga. SS
JHW28203	Right	9 3/4	1 3/8	18 ga. CR / 22 ga. SS
JHW28205	Straight	9 13/16	1 1/2	18 ga. CR / 22 ga. SS

JHW28251 3 Piece Aviation Snips Set in Pouch

Contents Include:

Product Code	Description	Product Code	Description
JHW28201	Left-cut snips	JHW28205	Straight-cut snips
JHW28203	Right-cut snips		

Features

- Color-coded handles help quickly identify the cutting direction
- Bi-mold handles provide comfortable grip, reduces hand fatigue
- Meet ANSI and DIN standards

OFFSET AVIATION SNIPS

Bi-Mold Comfort Grip Handles

Product Code	Cutting Direction	Overall Length (Inches)	Cut Length (Inches)	Cutting Capacity (Cold-Rolled/Stainless)
JHW28231	Left and Straight	9 1/4	1 3/16	18 ga. CR / 22 ga. SS
JHW28233	Right and Straight	9 1/4	1 3/16	18 ga. CR / 22 ga. SS

JHW28253 2 Piece Offset Aviation Snips Set in Pouch

Contents Include:

Product Code	Description	Product Code	Description
JHW28231	Left and Straight Cut	JHW28233	Right and Straight Cut

Features

- Color-coded handles help quickly identify the cutting direction
- Bi-mold handles provide comfortable grip, reduces hand fatigue
- Meet ANSI and DIN standards
- Offset blades keeps user's hands above the work for safety and flow material away from blades for speed

SPECIALTY AVIATION SNIPS

Bi-Mold Comfort Grip Handles

Product Code	Style	Overall Length (Inches)	Cut Length (Inches)	Cutting Capacity (Cold-Rolled/Stainless)
JHW28211	Bulldog - Notch	9	1	16 ga. CR / 18 ga. SS
JHW28221	Long Cut - Straight	11 3/8	3	20 ga. CR / 26 ga. SS

JHW28255 2 Piece Specialty Aviation Snips Set in Pouch

JHW28255 2 Piece Specialty Snips Set. Includes one each Bulldog and Long Cut snips above.

Contents Include:

Product Code	Description	Product Code	Description
JHW28211	Bulldog - Notch	JHW28221	Long Cut - Straight

Features

- Bulldog snips notches and cuts rolled edges, seams, and thick sheet metal up to 16 gauge cold-rolled steel
- Color-coded handles help quickly identify the cutting direction
- Bi-mold handles provide comfortable grip, reduces hand fatigue
- Meet ANSI and DIN standards

WILLIAMS®

STRAIGHT PATTERN TIN SNIPS

Double-Dipped Plastic Handles

Product Code	Overall Length (Inches)	Cutting Length (Inches)	Cutting Capacity (Cold-Rolled/Stainless)
JHW28301	7	1 9/16	24 ga. CR / 32 ga. SS
JHW28305	10	2	22 ga. CR / 28 ga. SS
JHW28307	12	2 3/4	20 ga. CR / 24 ga. SS
JHW28309	14	3	18 ga. CR /22 ga. SS

JHW28307

JHW28351 2 Piece Straight Pattern Tin Snips Set in Pouch

Contents Include:

Product Code	Description	Product Code	Description
JHW28301	7" Tin Snips	JHW28307	12" Tin Snips

Features

- Forged steel blades
- Double-dipped handles provide comfortable grip, reducing hand fatigue
- Cut straight lines and wide curves
- Meet ANSI and DIN standards

CABLE CUTTER FOR FERROUS MATERIALS

With Rubber Grips

Product Code	Overall Length (Inches)	Cable Cutting Capacity (Inches)	Replacement Blade Kit
JHW2520	22 1/2	1 3/16 Aluminum/Copper with 1/4 Messenger Wire	2520-SH

JHW2520

Features

- Lightweight handles provide ease of control while offering solid durability
- Rubber grips offer control and comfort during working application
- Cutting notch below top cutting blades provided for cuts on ferrous material
- Replacement blade kit includes blades, screws, and nuts

CABLE CUTTER FOR NON-FERROUS MATERIALS

With Rubber Grips

Product Code	Overall Length (Inches)	Cable Cutting Capacity (Inches)
JHW2620-31	31 1/2	1 5/8 Aluminum/Copper

JHW2620-31

Features

- For non-ferrous material cutting only
- Lightweight handles provide ease of control while offering solid durability
- Rubber grips offer control and comfort during working application
- Replacement blade kit includes blades, screws, and nuts

CABLE TIE CUTTER

With Rubber Grips

Product Code	Overall Length (Inches)
JHWPL-1300	6 1/2

JHWPL-1300

Features

- Suitable for cable ties rated up to 250 lbs
- Safely remove cable ties without harming bundled items

Made in U.S.A.

WARNING

JHWWTC-11

WIRE TWISTER / CUTTER

Produces Right Hand (clockwise) Twists

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Cutting Blade Length (Inches)
JHWWTC-11	8.5	1 1/16	1/4
JHWWTC-45	6	1 1/16	1/16

Features

- Diamond-shaped, flat top jaw serrations hold wire firmly and resist nicking material being worked on
- Diagonal nose configurations & "mini" frame allows access in tight quarters
- Automatic return feature retracts automatically, speeding up operation use and reducing operator fatigue
- Heat-treated cutting edge holds it edge for cutting tough (up to .041) stainless steel and safety wire
- One hand operation allows for operator closing and locking with minimum of handle force
- High carbon alloy steel forging are used for maximum durability and long life

Made in U.S.A.

JHW23201

JHW23210

JHW23220

LOCKING PLIERS AND SET

Bi-Mold Comfort Grip Handles

Product Code	Overall Length (Inches)	Style
JHW23201	5	Curved Jaw with Cutter
JHW23202	7	Curved Jaw with Cutter
JHW23203	10	Curved Jaw with Cutter
JHW23210	7	Straight Jaw
JHW23211	10	Straight Jaw
JHW23220	6	Long Nose with cutter
JHW23221	9	Long Nose with cutter

Locking Pliers Sets

Product Code	Description
JHW23070	3 Piece Locking Pliers Set with Bi-Mold Comfort Grip Handles

Contents Include:

Product Code	Description
JHW23201	5" Curved Jaw Locking Pliers with Cutter
JHW23202	7" Curved Jaw Locking Pliers with Cutter
JHW23203	10" Curved Jaw Locking Pliers with Cutter

Product Code	Description
JHW23071	3 Piece Locking Pliers Set with Bi-Mold Comfort Grip Handles

Contents Include:

Product Code	Description
JHW23203	10" Curved Jaw Locking Pliers with Cutter
JHW23210	7" Straight Jaw Locking Pliers
JHW23220	6" Long Nose Locking Pliers with Cutter

Features

- Bi-mold handles provide comfortable grip, reducing hand fatigue
- Convenient one-hand release lever
- Heavy-duty jaw surfaces provide extra gripping power
- Packed in a pouch

JHW23070

JHW23071

WILLIAMS

LOCKING PLIERS

Curved Jaw with Wire Cutter Locking Pliers

Product Code	Overall Length (Inches)
JHW23301	5
JHW23302	7
JHW23303	10

Straight Jaw Locking Pliers

Product Code	Overall Length (Inches)
JHW23304	7
JHW23305	10

Long Nose with Wire Cutter Locking Pliers

Product Code	Overall Length (Inches)
JHW23309	6
JHW23310	9

Locking C-Clamps

Product Code	Overall Length (Inches)	Throat Depth	Capacity (Lbs.)
JHW23320	6	1¼"	450
JHW23321	11	2¼"	900

Locking C-Clamps with Swivel Pad

Product Code	Overall Length (Inches)	Throat Depth	Capacity (Lbs.)
JHW23222	6	1 5/16"	450
JHW23223	9	2 3/16"	900
JHW23224	11	2¼"	900
JHW23225	14	4½"	700

Features

- Convenient one-hand release lever
- Heavy-duty jaw surfaces provide extra gripping power

JHW23303

JHW23305

JHW23309

JHW23320

JHW23222

LOCKING PLIERS SETS

JHW23072 3 Piece Locking Pliers Set

Contents Include:

Product Code	Description
JHW23301	5" Curved Jaw Locking Pliers with Cutter
JHW23302	7" Curved Jaw Locking Pliers with Cutter
JHW23303	10" Curved Jaw Locking Pliers with Cutter

JHW23074 4 Piece Locking Pliers Set

Contents Include:

Product Code	Description
JHW23301	5" Curved Jaw Locking Pliers with Cutter
JHW23303	10" Curved Jaw Locking Pliers with Cutter
JHW23309	6" Long Nose with Wire Cutter
JHW23310	9" Long Nose with Wire Cutter

JHW23076 5 Piece Locking Pliers Set

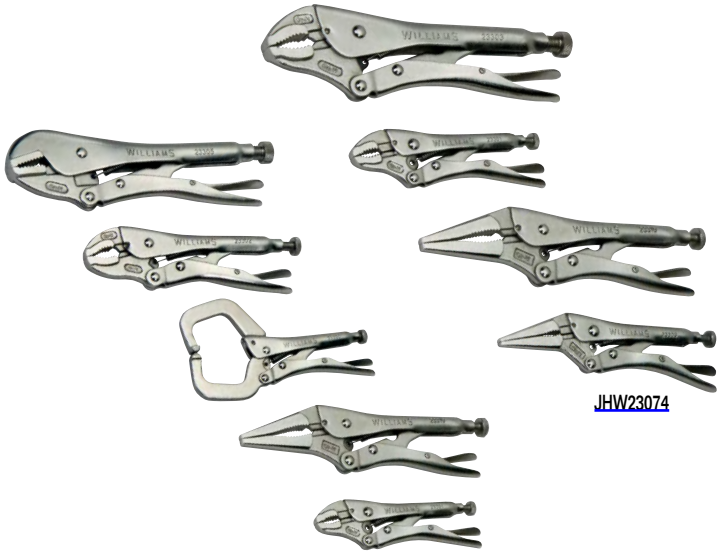
Contents Include:

Product Code	Description
JHW23301	5" Curved Jaw Locking Pliers with Cutter
JHW23302	7" Curved Jaw Locking Pliers with Cutter
JHW23305	10" Straight Jaw
JHW23310	9" Long Nose with Wire Cutter
JHW23320	6" Locking C-Clamp

Features

- Convenient one-hand release lever
- Heavy-duty jaw surfaces provide extra gripping power

JHW23072



JHW23074

JHW23076

⚠WARNING

JHWPL-1622

JHWPL-1620

JHWPL-1621

SNAP RING PLIERS

Double-Dipped Plastic Handles

Product Code	Tip Size	Tip Angle (Degree)
JHWPL-1620	0.038	0°
JHWPL-1621	0.038	45°
JHWPL-1622	0.038	90°
JHWPL-1623	0.047	0°
JHWPL-1624	0.047	45°
JHWPL-1625	0.047	90°
JHWPL-1626	0.070	0°
JHWPL-1627	0.070	45°
JHWPL-1628	0.070	90°
JHWPL-1629	0.090	0°
JHWPL-1630	0.090	45°
JHWPL-1631	0.090	90°

Combination Internal/External Snap Ring Pliers Set
Pliers set in a plastic carrying case

Contents Include:

Product Code	Description
JHWPL-1612	12 Piece Combination Internal/External Snap Ring Pliers Set

Set includes 1 each Snap Ring Plier listed above

Combination Internal/External Snap Ring Pliers Set
Pliers set in a plastic carrying case

Contents Include:

Product Code	Description
JHWPL-1606	6 Piece Combination Internal/External Snap Ring Pliers Set

Set includes 1 each Snap Ring Pliers, PL-1620, PL-1622, PL-1623, PL-1625, PL-1626, PL-1628

Features

- Cushioned grip handles
- Pliers are convertible for use on internal and external snap rings
- Knurled center screw with spring for easy changing and secure hold

Made in U.S.A.

JHWPL-1612

JHWPL-1606

WILLIAMS®

RETAINING RING PLIERS AND SET

Double-Dipped Plastic Handles

Product Code	Description	Minimum Opening (Ctr. To Ctr.)	Maximum Opening (Ctr. To Ctr.)	Tips Included (Each Plier Includes 2 of Each)
JHWPL-1600C1	Internal pliers with tips	3/32	25/32	0.035" 90°
JHWPL-1600C2	External pliers with tips	3/32	1 1/32	0.045" 45°
				0.045" Straight
				0.060" Straight

Snap Ring Pliers Set

Product Code	Description
JHWPL-1600C	Snap Ring Pliers Set

Contents Includes:

Product Code	Description
JHWPL-1600C1	PL-1600C-1 Internal Pliers
JHWPL-1600C2	PL-1600C-2 External Pliers

Replacement Tip Set Contents Includes:

Product Code	Description
JHWPL-1600C3	16 Piece Replacement tip set

Features

- Internal snap rings designed for use in housings, boxes, etc with bore diameters .375 to 1.750 inches
- External snap rings designed for use in shafts, studs, etc with shaft diameters .250 to 1.438 inches
- JHWPL-1600C1 and JHWPL-1600C2 each supplied with 8 tips (2 each: 90° x .035 and 45° x .045 angle tips and .045 and .060 straight tips)
- Made of high quality carbon steel with black-oxide finish to resist rust and other corrosions
- Tips heat treated for a secure grip
- Pliers provided with cushion grip handles
- Set consists of one internal and one external snap ring pliers and 16 tips in a pouch
- Tip set includes 4 each of interchangeable tips: 90° x .035 and 45° x .045 angle tips and .045 and .060 straight tips

USA
Made in U.S.A.

JHWPL-1600C1

JHWPL-1600C2

CONVERTIBLE RETAINING RING PLIERS AND SET

Double-Dipped Plastic Handles

Product Code	Capacity (Max. Ring Dia.)	Tips Included (Includes 2 of Each)
23801	2"	0.039" Straight Tips (Yellow) 0.038" 90° Tips (Yellow) 0.047" Straight Tips (Green) 0.047" 90° Tips (Green) 0.074" Straight Tips (Copper)
JHW23803A	1"	0.023" Straight Tips (Red) 0.039" Straight Tips (Yellow) 0.038" 90° Tips (Yellow) 0.047" Straight Tips (Green) 0.047" 90° Tips (Green)

Retaining Ring Pliers Set

Product Code	Description
JHW23092	Retaining Ring Pliers Set

Contents Includes:

Product Code	Description
23801	2" Capacity Retaining Ring Pliers
JHW23803A	1" Capacity Retaining Ring Pliers

Replacement Tip Kits Contents Includes:

Product Code	Description
JHW23802A	Replacement Tip Kit Only for 23801A
JHW23804A	Replacement Tip Kit Only for 23803A

Features

- Easily convert for use on internal and external rings by moving convenient adjusting levers
- Each pliers includes five pairs of color-coded tips for maximum versatility
- Hex-shaped locking guides firmly hold tips in place
- Double-dipped handles with air cushion pockets provide comfortable grip, reducing hand fatigue
- Spring-loaded handles speed work

USA
Made in U.S.A.

23801

JHW23803A

WARNING

HEAVY DUTY RETAINING RING PLIERS & TIPS

JHWPL-529

Double-Dipped Plastic Handles

Product Code	Description	Minimum Opening (Ctr. To Ctr.)	Maximum Opening (Ctr. To Ctr.)
JHWPL-527	Internal snap ring pliers	5/16	1 13/32
JHWPL-528	External snap ring pliers	11/32	1 17/32

Tips for Heavy Duty Retaining Ring Pliers

Product Code	Description (Includes 2 each)
JHWPL-529A	0.108" Straight Tips
JHWPL-529B	0.108" 15° Tips
JHWPL-529C	0.108 45° Tips
JHWPL-529D	0.108 90° Tips
JHWPL-530A	0.120 Straight Tips
JHWPL-530B	0.120 15° Tips
JHWPL-530C	0.120 45° Tips
JHWPL-530D	0.120 90° Tips

Heavy Duty Retaining Ring Pliers Set JHWPL-529

Product Code	Contents Include:
JHWPL-527	Internal snap ring pliers
JHWPL-528	External snap ring pliers

Set includes 2 each of heavy duty tips listed above

Features

- Internal snap rings designed for use in housings, boxes, etc
- External snap rings designed for use in shafts, studs, etc
- Pliers supplied with spring ratchet lock assembly which allows the ring to be compressed or expanded with gradual adjustments which lock at the desired size without continued pressure on the handles
- Made of high quality carbon steel with black-oxide finish to resist rust and other corrosions
- Tips heat treated for a secure grip
- Tips not provided with pliers when pliers are ordered individually

Made in U.S.A.

JHWPL-528

JHWPL-527

WILLIAMS®

FIXED TIP RETAINING RING PLIERS

Double-Dipped Plastic Handles

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Tip Diameter (Inches)	Minimum Jaw Opening (Inches)	Maximum Jaw Opening
Internal					
JHWPL-531	5 1/2	7/8	0.038	3/32	2 3/8
JHWPL-532	6 1/2	1	0.070	3/32	2 31/32
External					
JHWPL-533	6 1/2	7/8	0.038	3/32	1 1/32
JHWPL-534	7	2 1/16	0.070	3/32	1 1/4

Features

- Internal - used for installing and removing internal retaining rings in a bore without damage to the ring
- External - used for installing and removing external retaining rings on a shaft without damage to the ring
- Manufactured from high carbon, heat treated steel
- Designed for accurate fit and long wear by precision forming and induction hardening.
- Finished with black oxide coating

Made in U.S.A.

LOCKING RING PLIERS

Black Jaws

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Width at Tip (Inches)
JHWPL-1515	8	1 3/8	5/16

Features

- For spreading horseshoe lock washers and steel lock rings used on gear and bearing shafts

Made in U.S.A.

WARNING

JHWCC-406C

JHWCC-406S

JHWCC-4AAW

DROP FORGED C-CLAMPS

Deep Throat Design, Copper Plated Screw

Product Code	Capacity (Inches)	Throat Depth (Inches)	Screw Diameter (Inches)	Min Test Load (lbs)
JHWCC-402C	2	2 11/32	1/2	3500
JHWCC-403C	3	2 3/4	1/2	3500
JHWCC-404C	4	3 3/16	3/4	6500
JHWCC-406C	6	4 1/8	3/4	6900
JHWCC-408C	8	5 3/16	3/4	6900
JHWCC-410C	10	6	3/4	8000
JHWCC-412C	12	6 1/2	7/8	9500

Features

- Copper plated screw resists weld splatter
- Drop-forged and heat treated for maximum strength and greater rigidity
- I-Beam design for extra strength
- Highly resistant to "springing"
- Acme threading

Made in U.S.A.

DROP FORGED C-CLAMPS

Deep Throat Design, Standard Screw

Product Code	Capacity (Inches)	Throat Depth (Inches)	Screw Diameter (Inches)	Min Test Load (lbs)
JHWCC-402S	2	2 11/32	1/2	3500
JHWCC-403S	3	2 3/4	1/2	3500
JHWCC-404S	4	3 3/16	3/4	6500
JHWCC-406S	6	4 1/8	3/4	6900
JHWCC-408S	8	5 3/16	3/4	6900
JHWCC-410S	10	6	3/4	8000
JHWCC-412S	12	6 1/2	7/8	9500

Features

- Black threaded screw with T-handle
- Drop-forged and heat treated for maximum strength and greater rigidity
- I-Beam design for extra strength
- Highly resistant to "springing"
- Acme threading

Made in U.S.A.

HEAVY SERVICE C-CLAMPS

Deep Throat Design, Standard Screw

Product Code	Maximum Capacity (Inches)	Minimum Capacity (Inches)	Throat Depth From Center (Inches)	Exterior Body Width (Inches)	Screw Diameter (Inches)	Screw Length Under Head (Inches)	Min Test Load (Lbs.)
JHWCC-1AAW	1 3/8	0	1 1/8	2 23/32	13/32	2 7/16	5,600
JHWCC1 1/2AAW	1 7/8	0	1 21/32	3 19/32	5/8	3 1/4	8,750
JHWCC-2AAW	2 11/32	0	1 7/8	4 1/4	23/32	4 1/8	12,500
JHWCC-3AAW	3 7/16	1/8	2 13/32	5 3/4	27/32	4 7/8	16,250
JHWCC-3LAAW **	3 7/16	0	2 1/2	5 3/4	27/32	5 3/4	16,250
JHWCC-4AAW	4 21/32	17/32	2 7/8	6 1/4	27/32	6	20,000
JHWCC-4LAAW **	4 21/32	0	2 7/8	6 1/4	27/32	7 1/4	20,000
JHWCC-5AAW	5 5/8	1/2	3 1/8	7	27/32	7 1/4	23,800
JHWCC-5LAAW **	5 5/8	0	3 1/8	7	27/32	8 7/8	23,800
JHWCC-6AAW	6 1/2	1 5/32	3 1/2	7 1/2	1 3/32	8	27,500
JHWCC-6LAAW **	6 1/2	0	3 1/2	7 1/2	1 3/32	10	27,500
JHWCC-8AAW	8 1/2	4	3 11/16	8 1/2	1 3/32	7 1/8	31,250
JHWCC-8LAAW **	8 1/2	0	3 11/16	8 1/2	1 3/32	11 5/8	31,250
JHWCC-10AAW	10 3/8	5 3/8	4 3/8	8 1/2	1 3/32	7 3/4	35,000
JHWCC-10LAAW **	10 3/8	0	4 5/16	8 1/2	1 3/32	14 3/8	35,000
JHWCC-12AAW	12 3/8	7 1/4	4 7/16	9 1/2	1 3/32	8 1/4	40,000
JHWCC-12LAAW **	12 3/8	0	4 1/4	9 1/2	1 3/32	16 7/16	40,000

** Where zero capacity is desired, the clamps with long screws should be ordered. These are indicated with an "L" in the product code.

Features

- Especially designed for heavy duty service, frames are drop-forged and heat-treated for maximum strength and reduced springing
- Screws are made of special grade steel and are heat-treated for added strength not found in typical case-hardened screws
- To tighten, the square headed screw must be turned with a wrench
- Ideal for the most demanding applications such as construction and heavy industry
- Square head screw allows tightening with wrench for extra heavy duty clamping requirements
- Greater anvil surface for gripping larger work pieces and for greater stability

Made in U.S.A.

WILLIAMS®

UNIVERSAL PLIERS WRENCHES

With Comfort Grip

Product Code	Overall Length (Inches)	Maximum Jaw Opening (Inches)	Pipe Maximum Diameter (Inches)
JHW140	8 7/16	1 3/16	3/4
JHW141	11	1 3/8	1
JHW142	14 1/2	2 1/16	1 1/2
JHW143	21 7/8	3 1/16	2 1/2
JHW144	28 3/8	4 3/8	3 1/2

Features

- Black oxide and anti-rust treated high alloy steel provide long life and durability
- Precision induction hardened jaws are designed with inwardly angled aggressive teeth
- Outer part of jaw is large toothed and used for maximum grip on large diameter pipes
- Inner part of jaw is fine toothed and used for maximum grip on small diameter pipes
- Commonly called a “Swedish Pipe Wrench”, the small head makes them ideal for working in confined areas

JHW142

ALUMINUM STRAIGHT PIPE WRENCH

Aluminum, Heavy Duty

Product Code	Size		Pipe Capacity		Weight	
	in.	mm	in.	mm	lb.	kg
RIG31090	10	250	1 1/2	40	1	0.4
R47057	12	300	2	50	2 1/2	1.1
R31095	14	350	2	50	2 1/2	1.1
R31100	18	450	2 1/2	65	3 3/4	1.7
R31105	24	600	3	80	6	2.7
R31110	36	900	5	125	11	5.0
RIG31115	48	1200	6	150	18 1/2	8.4

Features

- Professional strength in lightweight aluminum
- Offer durability and ease-of-use

Made in U.S.A.

RIG31090

WARNING

B31020

STRAIGHT PIPE WRENCH

Product Code	Size in.	Size mm	Pipe Capacity in.	Pipe Capacity mm	Weight lb.	Weight kg
RIG31000	6	150	¾	20	½	0.2
B31005	8	200	1	25	¾	0.3
B31010	10	250	1 ½	40	1 ¾	0.8
B31015	12	300	2	50	2 ¾	1.2
B31020	14	350	2	50	3 ½	1.6
B31025	18	450	2 9/16	65	5 ¾	2.6
B31030	24	600	3	80	9 ¾	4.4
B31035	36	900	5	125	19	8.7
RIG31040	48	1200	6	150	34 ¼	15.6
RIG31045	60	1500	8	200	51 ¼	23.3

Features

- Sturdy, cast-iron housing and I-beam handle with full floating forged hook jaw, featuring self-cleaning threads with replaceable hook and heel jaws
- Heavy-duty pipe wrenches comply with federal specifications GGG-W65IE, Type II, Class A

Made in U.S.A.

JHW13542

PIPE WRENCHES

Aluminum, Heavy Duty

Product Code	Overall Length (Inches)	Maximum Jaw Opening (Inches)	Hook Jaw	Spare Parts Heel Jaw & Pin	Knurl Nut
JHW13500	8	1 5/16	JHW13551	JHW13567	JHW13571
JHW13502	10	1 5/8	JHW13552	JHW13562	JHW13572
JHW13504	12	2 1/8	JHW13553	JHW13563	JHW13573
JHW13506	14	2 9/16	JHW13554	JHW13564	JHW13574
JHW13508	18	3 1/8	JHW13555	JHW13565	JHW13575
JHW13510	24	3 ¾	JHW13556	JHW13566	JHW13576
JHW13512	36	5	JHW13557	JHW13568	JHW13577
JHW13514	48	6	JHW13558	JHW13569	JHW13578

Pipe Wrench Set

Product Code	Contents Include:
JHW13542	3 Piece Aluminum Pipe Wrench Set. Includes 8", 12", and 18" wrenches

Features

- Aluminum pipe wrenches are approximately 40% lighter than cast iron
- Heavy duty construction for strength and durability
- Scale on wrench indicates pipe diameter

JHW13544

PIPE WRENCHES

Cast Iron, Heavy-Duty

Product Code	Overall Length (Inches)	Maximum Jaw Opening (Inches)	Hook Jaw	Spare Parts Heel Jaw & Pin	Knurl Nut
JHW13516	6	7/8	JHW13550	JHW13560	JHW13570
JHW13518	8	1 5/16	JHW13511	JHW13567	JHW13571
JHW13520	10	1 5/8	JHW13552	JHW13562	JHW13572
JHW13522	12	2 1/8	JHW13553	JHW13563	JHW13573
JHW13524	14	2 9/16	JHW13554	JHW13564	JHW13574
JHW13526	18	3 1/8	JHW13555	JHW13565	JHW13575
JHW13528	24	3 ¾	JHW13556	JHW13566	JHW13576
JHW13530	36	5	JHW13557	JHW13568	JHW13577
JHW13532	48	6	JHW13558	JHW13569	JHW13578

Pipe Wrench Set

Product Code	Contents Include:
JHW13544	3 Piece Cast Iron Pipe Wrench Set. Includes 8", 12", and 18" wrenches

Features

- Heavy duty construction for strength and durability
- Scale on wrench indicates pipe diameter

WILLIAMS

FLANGE-JACKS

Tremendous Pressure With Minimum Effort

Product Code	Flange Diameter Capacity * 125 Pound Cast Iron	* 150 Pound Cast Iron	* 250 Pound Cast Iron	* 300 Pound Cast Iron
JHWFJ-20	2 to 20	2 to 20	1 to 12	3/4 to 12
JHWFJ-30	16 to 48	18 to 24	12 to 30	12 to 24

Features

- Ideal for working on pipe lines and other applications involving flanges
- Makes gasket removal fast and easy
- Flanges are separated smoothly and evenly without damage to flange faces
- Flange jacks are sold only in pairs
- Eliminates danger from flying wedges and sparks caused by hammer blows
- Ideal for hard to reach locations

Made in U.S.A.

JHWFJ-20

JHWFJ-30

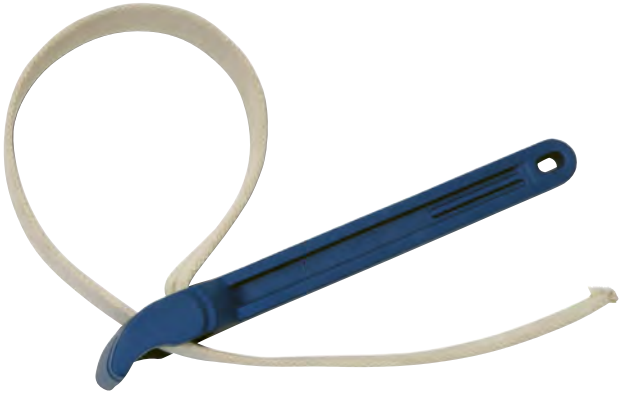
STRAP WRENCH

Aluminum Handle

Product Code	Handle Length (Inches)	Maximum Diameter (Inches)	Strap Size (Inches)
JHW40221	12	8	1 1/8 x 30

Features

- Use on irregularly shaped objects where other wrenches won't work
- Useful for turning handwheels and other knurled handles
- Reduces risk of damage on plastic pipe and tubing
- Strap is made out of cotton



JHW40221

WARNING

45° SINGLE FLARING TOOL

For Soft Tubing

Product Code	Description	O.D. Capacity (Inches)
JHW43631	45° Single Flaring Tool	3/16, 1/4, 5/16, 3/8, 7/16, 1/2, & 5/8

Features

- For soft copper, aluminum, and brass tubing
- Forged steel yoke and hardened flaring bar for durability
- Positive clamping action prevents tube slippage
- Self-centering yoke with swivel-type, hardened steel, chrome-plated flaring cone forms better flares with less effort
- Chrome plated to resist rust and corrosion

Made in U.S.A.

JHW43631

TRIPLE-HEAD TUBING BENDER

For Soft Tubing

Product Code	Description	O.D. Capacity (Inches)
JHW43621	Triple-Head Tube Bender	3/16, 1/4, 5/16, & 3/8

Features

- For copper, aluminum, and thin-wall steel tubing
- Calibrated markings for making accurate left, right, and offset bends
- 90° start requires less effort, making bending fast and easy

Made in U.S.A.

JHW43621

PIPE CHAIN WRENCH

Heat Treated

Product Code	Pipe Diameter Minimum - Maximum (Pipe Size)	Handle Length (Inches)	Chain Length (Inches)
JHWCW-4	3/8 - 4	11	15

Features

- Forged handle is fully heat-treated
- Ideal for use in close quarters and where space is at a premium
- Successive "bites" can be taken without removal of wrench from the work piece
- Fully adjustable to fit any shape pipe

Made in U.S.A.

JHWCW-4

PIPE CHAIN WRENCH

Heat Treated

Product Code	Pipe Diameter Capacity	Handle Length (Inches)	Chain Length (Inches)
JHW40222	4	12	16
JHW40223	5	15	19
JHW40224	6	24	23

Features

- Forged strong I Beam handle
- Designed for working in confined areas when regular pipe wrenches will not fit, excellent for pipe fittings
- Portable and lightweight can be used for overhead and underground work

JHW40223

WILLIAMS

5/8" CAPACITY MINI-TUBING CUTTER

For Hard or Soft Copper Tubing, Brass, Stainless Steel, etc.

Product Code	Description	Cutting Capacity (Inches)	Overall Length (Inches)
JHW43603	Mini-Tubing Cutter	1/8 to 5/8	1 3/4
JHW43613	Replacement Cutter Wheel for 43603 (Pack of 5)		

Features

- Designed for use in tight access areas
- Enclosed feed screw assures smooth operation by minimizing contamination
- Corrosion resistant stainless steel rollers produce easier, smoother cuts

Made in U.S.A.

JHW43603

1-1/8" CAPACITY TUBING CUTTER

For Hard or Soft Copper Tubing, Brass, Stainless Steel, etc.

Product Code	Description	Cutting Capacity (Inches)	Overall Length (Inches)
JHW43605	1 1/8" Tubing Cutter	1/8 to 1 1/8	5
JHW43611	General Purpose Replacement Cutter Wheel (Pack of 10)		
JHW43615	Optional Cutter Wheel for Stainless Steel (Pack of 5)		

Features

- Enclosed hardened steel thrust-bearing mechanism assures smooth cuts and reliable operation
- Rugged aluminum alloy body looks good and handles well
- Foldaway hardened steel reamer removes inside burrs cleanly
- Includes (2) general-purpose cutter wheels

Made in U.S.A.

JHW43605

2-5/8" CAPACITY TUBING CUTTER

For Hard or Soft Copper Tubing, Brass, Stainless Steel, etc.

Product Code	Description	Cutting Capacity (Inches)	Overall Length (Inches)
JHW43607	2 5/8" Tubing Cutter	3/8 to 2 5/8	7 3/4 (Closed)
JHW43617	General Purpose Replacement Cutter Wheel for JHW43607 (Pack of 5)		

Features

- Ratchet feed mechanism speeds up cutting operations while extra-wide rollers stabilize the tubing
- Light-weight aluminum body
- Spare cutting wheel included under cap
- Cuts Schedule 40 PVC pipe up to 2" diameter with optional 43616 cutter wheel

Made in U.S.A.

JHW43607

PLASTIC AND RUBBER HOSE CUTTER

Compact and Light

Product Code	Description	Replacement Cutting Wheel
JHW43618	Plastic and rubber hose cutter	JHW43619

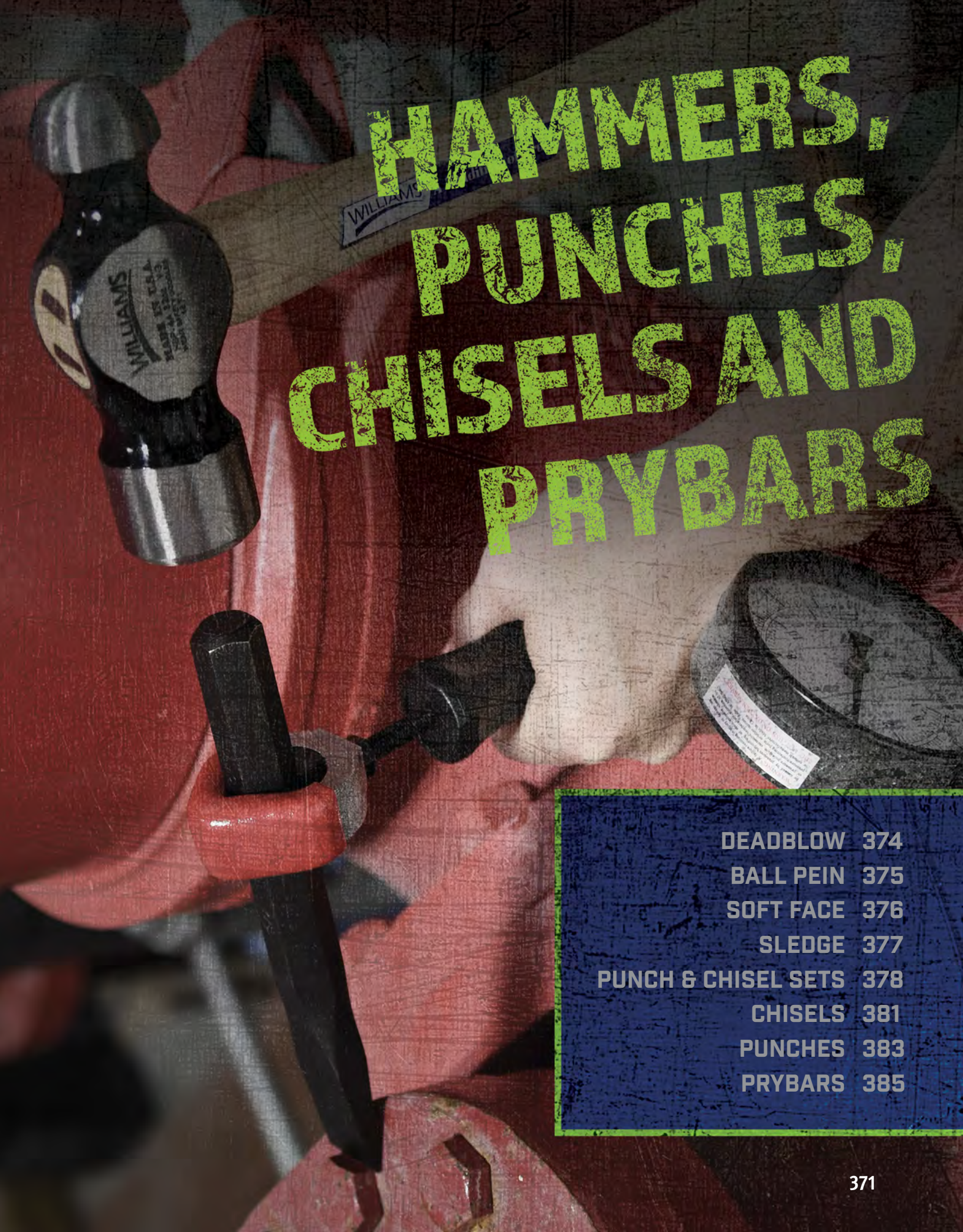
Features

- Cuts plastic tubing and non-metal reinforced hose
- Cuts sizes 1/16" to 1/2" and 1mm to 13mm O.D
- Spring loaded for safety
- Weighs only one ounce

Made in U.S.A.

JHW43618

WARNING



HAMMERS, PUNCHES, CHISELS AND PRYBARS

DEADBLOW 374
BALL PEIN 375
SOFT FACE 376
SLEDGE 377
PUNCH & CHISEL SETS 378
CHISELS 381
PUNCHES 383
PRYBARS 385

WILLIAMS®

BALL PEIN HAMMERS

Ideal for driving punches, chisels and other metal work

Hammer heads are drop-forged from specially selected steel and heat treated for dependable strength, hardness and uniformity.

Fiberglass handle has a cushion grip for greater comfort and safety

Wooden handles made from white hickory and clear lacquered and permanently wedged into the heads

PUNCHES AND CHISELS

Protects user from hand injury

Heavy duty construction for strength and durability.

Holds chisel and punch securely

HAMMERS, PUNCHES, CHISELS AND PRYBARS

DELIVER A POWERFUL STRIKE WITH PRECISION

SCREWDRIVER TYPE PRYBARS

LIGHTWEIGHT HANDLE PRYBARS

DEADBLOW HAMMERS

Ergonomically Designed Handles

Product Code	Weight (ozs.)	Overall Length (Inches)	Head Length (Inches)	Face Diameter (Inches)
JHWJHW-16	16	12	3 1/4	1 9/16
JHWJHW-24	24	12 3/4	3 3/4	1 3/4
JHWJHW-32	32	13 1/2	4 1/4	2
JHWJHW-48	48	15	4 3/4	2 1/4
JHWJHW-56	56	15 3/4	5 7/16	2 3/4

Features

- Hard urethane construction resists cut damage to hammer head
- Head provides a non-marring contact surface that will not damage equipment
- Deadblow feature minimizes hammer bounce back, reducing fatigue and improving productivity

Made in U.S.A.

JHWJHW-24

BALL PEIN HAMMERS

Fiberglass Handles with Cushion Grip

Product Code	Weight (ozs.)	Handle Length (Inches)	Overall Length (Inches)	Face Diameter (Inches)
JHW20542	8	9 1/2	10 3/4	7/8
JHW20543	12	10 1/4	11 3/4	7/8
JHW20544	16	11 1/4	13	1 7/8
JHW20545	24	13	15	1 1/4
JHW20546	32	12 3/4	15	1 1/4

Features

- Ideal for driving punches, chisels and other metal work
- Fiberglass handle has a cushion grip for greater comfort and safety
- Hammer heads are drop-forged from specially selected steel and carefully heat treated for dependable strength, hardness and uniformity

JHW20543

BRASS HAMMERS

Fiberglass Handles with Cushion Grip

Product code	Weight (ozs.)	Handle Length (inches)	Overall length (Inches)	Face Diameter (Inches)
JHWHSB-1.5A	1-1/2	10	12	1
JHWHSB-2.6A	2-1/2	10	12	1-1/4
JHWHSB-3.8A	3-3/4	10	12	1-5/8

Features

- Ideal for applications which require non-sparking conditions
- The flat surface brass head absorbs impact blows, reduces rebound and helps eliminate marred work surfaces
- Non-slip cushion grip provides greater comfort and safety

Made in U.S.A.

JHWHSB-3.8A

WARNING

JHWHBP-4A

BALL PEIN HAMMERS

Wood Handle

Product code	Head Weight (ozs.)	Handle Length (inches)	Overall length (Inches)	Face Diameter (Inches)
JHWHBP-5-0A	4	9 3/8	10 7/16	3/4
JHWHBP-3-0A	8	10 1/2	11 3/4	1
JHWHBP-2-0A	12	11 1/8	12 1/2	1 1/8
JHWHBP-0A	16	12 1/8	13 5/8	1 1/4
JHWHBP-2A	24	13 1/4	15 1/8	1 1/2
JHWHBP-4A	32	13 1/4	15 3/16	1 1/2
JHWHBP-6A	40	13 5/16	15 5/16	1 5/8
JHWHBP-8A	48	13 1/2	15 3/8	1 7/8

Features

- Ideal for driving punches, chisels and other metal work
- Wooden handles, which are made from white hickory and clear lacquered, are permanently wedged in to the heads
- Hammer heads are drop-forged from specially selected steel and carefully heat treated for dependable strength, hardness, and uniformity
- Polished Face, Bevel & Pein

Made in U.S.A.

JHW20678

DRILLING HAMMER

Fiberglass Handles with Cushion Grip

Product Code	Weight (ozs.)	Handle Length (Inches)	Overall Length (Inches)
JHW20678	32	8 1/2	10 1/4

Features

- Handles are durable and comfortable
- Heavy duty construction for strength and durability

JHW20651

CROSS PEIN HAMMER

Fiberglass Handles with Cushion Grip

Product Code	Weight (ozs.)	Handle Length (Inches)	Overall Length (Inches)
JHW20651	48	13	15 3/4

Features

- Handles are durable and comfortable
- Heavy duty construction for strength and durability

JHW20401

CLAW HAMMERS

Fiberglass Handles with Cushion Grip

Product Code	Style	Weight (ozs.)	Handle Length (Inches)	Overall Length (Inches)
JHW20402	Ripping Claw	16	10 3/4	13
JHW20401	Curved Claw	20	10 3/4	13

Features

- Handles are durable and comfortable
- Heavy duty construction for strength and durability

8 PIECE SOFT-FACE HAMMER BODY AND TIP SET

Fiberglass Handles with Cushion Grip

Product Code	Description
JHWHSF-8SET	8 Piece Soft Face Hammer Body and Tip Set

Contents Include:

Product Code	Weight Class	Head Length (Inches)	Handle Length (Inches)	Overall Length (Inches)	Head Diameter (Inches)
JHWHSF-151A	16 oz.	1 ½	12 ½	14	1 ½

Product Code	Hardness	Tip Diameter (Inches)	Color
JHWHSF-15S	Soft	1 ½	Brown
JHWHSF-15M	Medium	1 ½	Red
JHWHSF-15N	Medium Hard	1 ½	Cream
JHWHSF-15H	Hard	1 ½	Black
JHWHSF-15SS	Steel	1 ½	Steel
JHWHSF-15B	Brass	1 ½	Brass
Plastic Storage Case			

Features

- Handles are durable and comfortable
- Heavy duty construction for strength and durability
- Six interchangeable heads meet a number of various applications, including non-marring and non-sparking applications with selected head surfaces

Made in U.S.A.

JHWHSF-8SET

JHWHSF-151A

JHWHSF-20S | JHWHSF-20M | JHWHSF-20T

SOFT-FACE HAMMER TIPS

Heavy Duty

Product Code	Hardness	Tip Diameter (Inches)	Color
Brown: Working with soft composites, plastics and soft alloy metals. Replaces vinyl hammer.			
JHWHSF-10S	Soft	1	Brown
JHWHSF-15S	Soft	1 ½	Brown
JHWHSF-20S	Soft	2	Brown
JHWHSF-25S	Soft	2 ½	Brown
JHWHSF-30S	Soft	3	Brown
Red: Working with soft composites, plastics and soft alloy metals. Replaces rawhide hammer.			
JHWHSF-10M	Medium	1	Red
JHWHSF-15M	Medium	1 ½	Red
JHWHSF-20M	Medium	2	Red
JHWHSF-25M	Medium	2 ½	Red
JHWHSF-30M	Medium	3	Red
Cream: Working with soft composites, plastics and soft alloy metals. Replaces soft-metal hammer			
JHWHSF-10N	Medium Hard	1	Cream
JHWHSF-15N	Medium Hard	1 ½	Cream
JHWHSF-20N	Medium Hard	2	Cream
JHWHSF-25N	Medium Hard	2 ½	Cream
JHWHSF-30N	Medium Hard	3	Cream
Black: Working with hard surface composites and other hard metals.			
JHWHSF-10H	Hard	1	Black
JHWHSF-15H	Hard	1 ½	Black
JHWHSF-20H	Hard	2	Black
JHWHSF-25H	Hard	2 ½	Black
JHWHSF-30H	Hard	3	Black
Yellow: Working with hard surface composites and other hard metals, hardness is close to steel.			
JHWHSF-10XH	Extra Hard	1	Yellow
JHWHSF-15XH	Extra Hard	1 ½	Yellow
JHWHSF-20XH	Extra Hard	2	Yellow
JHWHSF-25XH	Extra Hard	2 ½	Yellow
JHWHSF-30XH	Extra Hard	3	Yellow
Green: Working with soft composites, plastic and soft alloy metals. Replaces brass hammer			
JHWHSF-10T	Tough	1	Green
JHWHSF-15T	Tough	1 ½	Green
JHWHSF-20T	Tough	2	Green
JHWHSF-25T	Tough	2 ½	Green
JHWHSF-30T	Tough	3	Green

Features

- Heavy duty construction for strength and durability

Made in U.S.A.

SOFT-FACE AND SHOT FILLED SOFT-FACE HAMMER BODY

Fiberglass Handles with Cushion Grip

Product Code	Weight Class (oz.)	Head Length (Inches)	Handle Length (Inches)	Overall Length (Inches)	Head Diameter (Inches)
JHWHSF-202A **	40	4 ⅛	10 ¾	13 ½	2
JHWHSF-100A	5	2	10 3/16	11 ⅛	1
JHWHSF-105A	8	2	10 3/16	11 ⅛	1
JHWHSF-150A	12	2 ½	10 13/16	12 5/16	1 ½
JHWHSF-151A	16	1 ½	12 ½	14	1 ½
JHWHSF-155A	20	2 ⅜	10 ⅞	12 7/16	1 ½
JHWHSF-200A	20	2 ½	11 ⅝	13 ½	2
JHWHSF-205A	32	2 ½	11 9/16	13 ½	2
JHWHSF-250A	32	3 ¼	12 ½	14 ¾	2 ½
JHWHSF-255A	64	3 ¼	12 5/16	14 ¾	2 ½
JHWHSF-300A	56	3 ¾	12 ⅞	14 ¾	3
JHWHSF-305A	96	3 ¾	11 ¾	14 ¾	3

Features

- **Shot filled head reduces rebound for safety and transmits more force to the work
- Handles are durable and comfortable
- Heavy duty construction for strength and durability
- Use with Soft-Face hammer tips below
- Match head diameter with tip diameter for proper fit
- Tips are not included with hammer body
- 5/16 – 18 thread size

Made in U.S.A.

⚠WARNING

JHWSH-8A

SLEDGE HAMMERS

Wood Handle

Product Code	Weight (lbs.)	Handle Length (inches)	Overall length (Inches)	Face Diameter (Inches)
JHWSH-2A	2	15	15	1 ½
JHWSH-4A	4	15	15	2
JHWSH-6A	6	36	36	2 ⅛
JHWSH-8A	8	36	36	2 ⅓
JHWSH-10A	10	36	36	2 ½
JHWSH-12A	12	36	36	2 ⅝
JHWSH-16A	16	36	36	2 ¾

Replacement Handle Service Kit

Product code	Description	Weight (ozs.)	Length (Inches)
JHWSHHW-14A	Handle	14	15
JHWSHHW-32A	Handle	24	36

Features

- High carbon steel, heat treated and tempered head, with hickory handle

Made in U.S.A.

JHWSHF-4A

JHWSHF-10LA

SLEDGE HAMMERS

Fiberglass Handle

Product Code	Weight Class (lbs.)	Handle Length (inches)	Overall length (Inches)	Face Diameter (Inches)
JHWSHF-4SA **	4	14	14	1 ¼
JHWSHF-8SA **	8	32	32	2
JHWSHF-12SA **	12	32	32	2 ¼
JHWSHF-2A	2	14	14	1 ¼
JHWSHF-3A	3	14	14	1 ½
JHWSHF-4A	4	14	14	1 ⅝
JHWSHF-6A	6	32	32	1 ¾
JHWSHF-8A	8	32	32	2
JHWSHF-10A	10	16	16	2 ⅛
JHWSHF-10LA	10	32	32	2 ⅛
JHWSHF-12A	12	32	32	2 ¼
JHWSHF-16A	16	24	24	2 ⅝
JHWSHF-16LA	16	32	32	2 ⅝
JHWSHF-20A	20	36	36	2 ¾

Replacement Handle Service Kit

Product Code	Description	Weight (lbs)	Length (Inches)
JHWSHHF-14A	Fiberglass	2 to 4	14
JHWSHHF-16A	Fiberglass	6 to 8	16
JHWSHHF-32A	Fiberglass	6 to 16	32
JHWSHHF-36	Fiberglass	20	36

Features

- ** Soft steel safety head is similar in hardness to brass
- ** Ideal replacement for Brass Head where non-sparking is not required
- Double faced head is hardened and tempered forged for maximum strength and durability
- All kits include replacement handle, pre-measured bonding mix, mix container and instructions

Made in U.S.A.

JHWSHSFDB8

DEAD BLOW SLEDGE HAMMERS WITH REPLACEMENT TIPS

Product Code	Weight (lbs)	Handle Length (Inches)	Overall length (Inches)	Face Diameter (Inches)
JHWSHSFDB8	8	29	32	2

- Includes Two 4" Black Tips

4" Replacement Tip

Product code	Hardness	Color	Product code	Hardness	Color
JHWSHSFDB40S	Soft	Brown	JHWSHSFDB40N	Med/Hard	Cream
JHWSHSFDB40M	Medium	Red	JHWSHSFDB40H	Hard	Black
JHWSHSFDB40T	Tough	Green	JHWSHSFDB40XH	Extra hard	Yellow

JHWSHSFDB40H

JHWSHSFDB40M

JHWSHSFDB40N

JHWSHSFDB40S

JHWSHSFDB40T

JHWSHSFDB40XH

Features

- Shot loaded dead blow heads deliver the impact of a steel hammer with little or no rebound
- Oversized head and striking face minimizes miss hits, applying force with greater impact and repeatability
- Strong yet light weight handles provide 90% of the total hammer weight at the head
- 4" Non-marring removable tips can be replaced when worn

27 PIECE PUNCH & CHISEL SET

Packed in a Pouch

Product Code	Description
JHWPC-27	27 Piece Punch & Chisel Set

Contents Include:

Product Code	Description	Point Diameter (Inches)
JHWP-3	Pin Punch	3/32
JHWP-4	Pin Punch	1/8
JHWP-5	Pin Punch	5/32
JHWP-6	Pin Punch	3/16
JHWP-8	Pin Punch	1/4
JHWP-10	Pin Punch	5/16
JHWP-13	Solid Punch	3/32
JHWP-14	Solid Punch	1/8
JHWP-15	Solid Punch	5/32
JHWP-16	Solid Punch	3/16
JHWP-17	Solid Punch	1/4
JHWP-25	Long Taper Punch	5/32
JHWP-26	Long Taper Punch	3/16
JHWP-28	Long Taper Punch	1/4
JHWP-30	Prick Punch	-
JHWP-40	Center Punch	-
JHWP-42	Center Punch	-

Product Code	Description	Blade Width (Inches)
JHWC-8	Cold Chisel	1/4
JHWC-10	Cold Chisel	5/16
JHWC-12	Cold Chisel	3/8
JHWC-16	Cold Chisel	1/2
JHWC-20	Cold Chisel	5/8
JHWC-24	Cold Chisel	3/4
JHWC-28	Cold Chisel	7/8
JHWC-32	Cold Chisel	1
JHWC-36	Cold Chisel	1 1/8
JHW28449	Punch and Chisel Holder 7/8" Capacity	

Features

- Heavy duty construction for strength and durability
- Includes punch and chisel holder for safety

Made in U.S.A.

JHWPC-27

17 PIECE PUNCH & CHISEL SET

Packed in a Pouch

Product Code	Description
JHWPC-17	17 Piece Punch & Chisel Set

Contents Include:

Product Code	Description	Point Diameter (Inches)
JHWP-4	Pin Punch	1/8
JHWP-6	Pin Punch	3/16
JHWP-8	Pin Punch	1/4
JHWP-14	Solid Punch	1/8
JHWP-15	Solid Punch	5/32
JHWP-16	Solid Punch	3/16
JHWP-25	Long Taper Punch	5/32
JHWP-28	Long Taper Punch	1/4
JHWP-32	Prick Punch	-
JHWP-40	Center Punch	-

Product Code	Description	Blade Width (Inches)
JHWC-10	Cold Chisel	5/16
JHWC-12	Cold Chisel	3/8
JHWC-16	Cold Chisel	1/2
JHWC-20	Cold Chisel	5/8
JHWC-24	Cold Chisel	3/4
JHWC-42	Cape Chisel	1/4
JHWC-62	Diamond Point Chisel	3/8

Features

- Heavy duty construction for strength and durability

Made in U.S.A.

JHWPC-17

WARNING

JHWPC-8

8 PIECE PUNCH & CHISEL SET

Packed in a Pouch

Product Code	Description
JHWPC-8	8 Piece Punch & Chisel Set

Contents Include:

Product Code	Description	Point Diameter (Inches)	Product Code	Description	Blade Width (Inches)
JHWP-4	Pin Punch	1/8	JHWC-10	Cold Chisel	5/16
JHWP-6	Pin Punch	3/16	JHWC-16	Cold Chisel	1/2
JHWP-8	Pin Punch	1/4	JHWC-24	Cold Chisel	3/4
JHWP-15	Solid Punch	5/32			
JHWP-40	Center Punch	-			

Features

- Heavy duty construction for strength and durability

Made in U.S.A.

JHWCS-8

8 PIECE CHISEL SET

Packed in a Pouch

Product Code	Description
JHWCS-8	8 Piece Chisel Set

Contents Include:

Product Code	Description	Blade Width (Inches)	Product Code	Description	Blade Width (Inches)
JHWC-40	Cape Chisel	3/16	JHWC-60	Diamond Point Chisel	1/4
JHWC-42	Cape Chisel	1/4	JHWC-62	Diamond Point Chisel	3/8
JHWC-44	Cape Chisel	5/16	JHWC-72	Round Nose Chisel	1/4
JHWC-46	Cape Chisel	3/8	JHWC-74	Round Nose Chisel	3/8

Features

- Heavy duty construction for strength and durability

Made in U.S.A.

JHWCS-9

9 PIECE COLD CHISEL SET

Packed in a Pouch

Product Code	Description
JHWCS-9	9 Piece Cold Chisel Set

Contents Include:

Product Code	Description	Blade Width (Inches)	Product Code	Description	Blade Width (Inches)
JHWC-8	Cold Chisel	1/4	JHWC-24	Cold Chisel	3/4
JHWC-10	Cold Chisel	5/16	JHWC-28	Cold Chisel	7/8
JHWC-12	Cold Chisel	3/8	JHWC-32	Cold Chisel	1
JHWC-16	Cold Chisel	1/2	JHWC-36	Cold Chisel	1 1/8
JHWC-20	Cold Chisel	5/8			

Features

- Heavy duty construction for strength and durability

Made in U.S.A.

17 PIECE PUNCH SET

Packed in a Pouch

Product Code	Description
JHWPS-17	17 Piece Punch Set

Contents Include:

Product Code	Description	Tip Diameter (Inches)	Product Code	Description	Tip Diameter (Inches)
PJHW-3	Pin Punch	3/32	JHWP-16	Solid Punch	3/16
JHWP-4	Pin Punch	1/8	JHWP-17	Solid Punch	1/4
JHWP-5	Pin Punch	5/32	JHWP-25	Long Taper Punch	5/32
JHWP-6	Pin Punch	3/16	JHWP-26	Long Taper Punch	3/16
JHWP-8	Pin Punch	1/4	JHWP-28	Long Taper Punch	1/4
JHWP-10	Pin Punch	5/16	JHWP-30	Prick Punch	-
JHWP-13	Solid Punch	3/32	JHWP-40	Center Punch	-
JHWP-14	Solid Punch	1/8	JHWP-42	Center Punch	-
JHWP-15	Solid Punch	5/32			

Features

- Heavy duty construction for strength and durability

Made in U.S.A.

JHWPS-17

4 PIECE CENTER PUNCH SET

Packed in a Pouch

Product Code	Description
JHWPS-4	4 Piece Center Punch Set

Contents Include:

Product Code	Description	Stock Diameter (Inches)	Product Code	Description	Stock Diameter (Inches)
JHWP-38	Center Punch	1/4	JHWP-40	Center Punch	3/8
JHWP-39	Center Punch	5/16	JHWP-42	Center Punch	1/2

Features

- Heavy duty construction for strength and durability

Made in U.S.A.

JHWPS-4

12 PIECE PILOT PUNCH SET

Packed in a Pouch

Product Code	Description
JHWPS-12	12 Piece Pilot Punch Set

Contents Include:

Product Code	Point Diameter	Product Code	Point Diameter
JHWP-51	1/16	JHWP-57	7/32
JHWP-52	5/64	JHWP-58	1/4
JHWP-53	3/32	JHWP-59	5/16
JHWP-54	1/8	JHWP-60	3/8
JHWP-55	5/32	JHWP-61	7/16
JHWP-56	3/16	JHWP-62	1/2

Features

- Designed to apply equal pressure to the end of a pin driving it straight through the hole
- The ball on the center of the point end assures proper contact with the pin eliminating damage to the pin or hole wall

Made in U.S.A.

JHWPS-12

WARNING

JHWPS-8

8 PIECE PILOT PUNCH SET

Packed in a Pouch

Product Code	Description
JHWPS-8	8 Piece Pilot Punch Set

Contents Include:

Product Code	Point Diameter	Product Code	Point Diameter
JHWP-51	1/16	JHWP-55	5/32
JHWP-52	5/64	JHWP-56	3/16
JHWP-53	3/32	JHWP-57	7/32
JHWP-54	1/8	JHWP-58	1/4

Features

- Designed to apply equal pressure to the end of a pin driving it straight through the hole
- The ball on the center of the point end assures proper contact with the pin eliminating damage to the pin or hole wall

Made in U.S.A.

JHWPS-3A

3 PIECE BRONZE DRIFT PUNCH SET

Packed in a Pouch

Product Code	Description
JHWPS-3A	3 Piece Bronze Drift Punch Set

Contents Include:

Product Code	Point Diameter
JHWP-63A	3/8
JHWP-64A	1/2
JHWP-65A	3/4

Features

- For aligning unhardened steel or aluminum

Made in U.S.A.

JHW28449

PUNCH AND CHISEL HOLDER

Comfort Grip Handle

Product Code	Description
JHW28449	7/8

Features

- Holds chisel and punch securely
- Protect user from hand injury

Made in U.S.A.

JHWC-16

COLD CHISELS

Heavy Duty Industrial Grade

Product Code	Stock Size	Blade Width (Inches)	Length (Inches)
JHWC-8	1/4	1/4	5
JHWC-10	1/4	5/16	5
JHWC-12	5/16	3/8	5 1/2
JHWC-15	3/8	7/16	6
JHWC-16	7/16	1/2	6
JHWC-20	1/2	5/8	6 1/2
JHWC-24	5/8	3/4	7
JHWC-28	3/4	7/8	7 1/2
JHWC-32	7/8	1	8
JHWC-36	7/8	1 1/8	8

Features

- The most commonly used chisels in the chisel line
- For cutting, shaping and removing metal softer than the cutting edge of the chisel

Made in U.S.A.

EXTRA-LONG COLD CHISELS

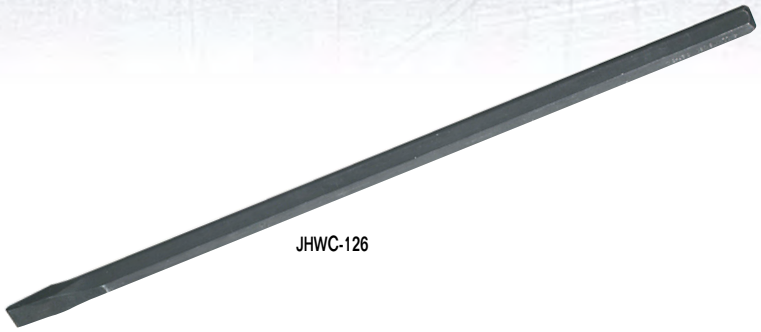
Heavy Duty Industrial Grade

Product Code	Stock Size	Blade Width (Inches)	Length (Inches)
JHWC-120	½	⅝	12
JHWC-124	⅝	¾	12
JHWC-125	⅝	¾	14
JHWC-126	⅝	¾	18
JHWC-132	¾	1	12
JHWC-133	¾	1	18

Features

- Designed for cutting, shaping and removing metal softer than the cutting edge of the chisel

Made in U.S.A.


JHWC-126

RIVET-BUSTER CHISEL

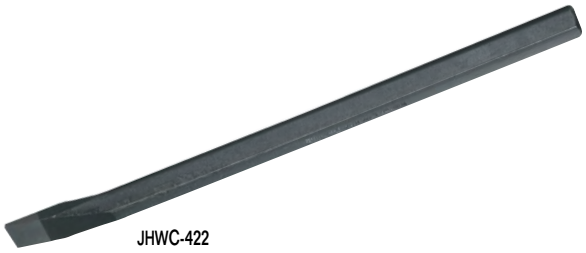
Heavy Duty Industrial Grade

Product Code	Stock Size	Blade Width (Inches)	Length (Inches)
JHWC-422	⅝	¾	12

Features

- Designed for shearing bolt heads and rivets

Made in U.S.A.


JHWC-422

CAPE CHISELS

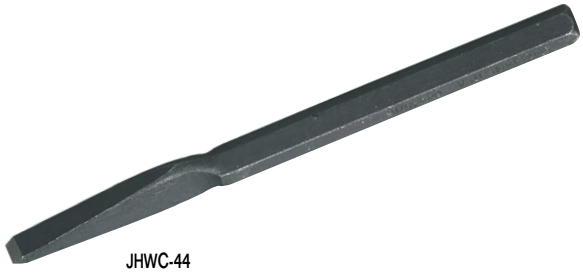
Heavy Duty Industrial Grade

Product Code	Stock Size	Blade Width (Inches)	Length (Inches)
JHWC-40	⅜	3/16	5 ⅝
JHWC-42	⅜	¼	5 ⅝
JHWC-44	½	5/16	6 ¼
JHWC-46	⅝	⅜	7

Features

- Designed for cutting or grooving keyholes or slots

Made in U.S.A.


JHWC-44

DIAMOND POINT CHISELS

Heavy Duty Industrial Grade

Product Code	Stock Size	Square Cut	Length (Inches)
JHWC-60	⅜	¼	5 ¾
JHWC-62	⅝	⅜	7

Features

- Designed for making a V-groove in metal and to clean out inside corners

Made in U.S.A.

JHWC-62

ROUND NOSE CHISELS

Heavy Duty Industrial Grade

Product Code	Stock Size	Blade Width (Inches)	Length (Inches)
JHWC-72	⅜	¼	5 ¾
JHWC-73	½	5/16	6 ¼
JHWC-74	⅝	⅜	7
JHWC-75	¾	½	8

Features

- Designed for cutting or grooving keyholes or slots

Made in U.S.A.

JHWC-74

⚠WARNING

JHWP-57

PILOT PUNCHES

Heavy Duty Industrial Grade

Product Code	Stock Size	Point Diameter	Length (Inches)
JHWP-51	1/4	1/16	2 3/4
JHWP-52	1/4	5/64	3 1/4
JHWP-53	1/4	3/32	3 1/2
JHWP-54	1/4	1/8	4
JHWP-55	1/4	5/32	4 1/2
JHWP-56	3/8	3/16	4 1/2
JHWP-57	3/8	7/32	5
JHWP-58	7/16	1/4	5 1/2
JHWP-59	7/16	5/16	6
JHWP-60	1/2	3/8	6
JHWP-61	5/8	7/16	6
JHWP-62	5/8	1/2	6

Features

- Designed to apply equal pressure to the end of a pin driving it straight through the hole
- The ball on the center of the point end assures proper contact with the pin eliminating damage to the pin or hole wall

Made in U.S.A.

JHWP-6

PIN PUNCHES

Heavy Duty Industrial Grade

Product Code	Stock Size	Point Diameter	Length (Inches)
JHWP-3	5/16	3/32	4 1/2
JHWP-4	5/16	1/8	4 3/4
JHWP-5	5/16	5/32	5
JHWP-6	3/8	3/16	5 1/4
JHWP-8	3/8	1/4	5 3/4
JHWP-10	7/16	5/16	6

Features

- For driving out and removing already loosened pins and keys after initial movement by a solid or starter punch

Made in U.S.A.

JHWP-16

SOLID PUNCHES

Heavy Duty Industrial Grade

Product Code	Stock Size	Point Diameter	Length (Inches)
JHWP-12	3/8	1/16	5
JHWP-13	3/8	3/32	5
JHWP-14	3/8	1/8	5
JHWP-15	3/8	5/32	5
JHWP-16	3/8	3/16	5
JHWP-18	3/8	7/32	5
JHWP-17	3/8	1/4	5

Features

- For loosening frozen or tight pins and keys or knocking out rivets
- Also called starter punches because they are ideal for loosening frozen pins

Made in U.S.A.

LONG TAPER PUNCHES

Heavy Duty Industrial Grade

Product Code	Stock Size	Point Diameter	Length (Inches)
JHWP-24	5/16	1/8	8
JHWP-25	3/8	5/32	9
JHWP-26	1/2	3/16	10
JHWP-28	5/8	1/4	12
JHWP-28A	3/4	1/4	15
JHWP-29	5/8	5/16	16
JHWP-27	3/4	3/8	15

Features

- Designed for aligning the holes in metal pieces through which rivets, bolts, or screws will be inserted
- Not intended for driving pins as punch may become stuck in work
- Also called line-up aligning or drift punches

Made in U.S.A.

JHWP-28

CENTER PUNCHES

Heavy Duty Industrial Grade

Product Code	Stock Size	Blade Width (Inches)
JHWP-38	1/4	4
JHWP-39	5/16	4 1/2
JHWP-40	3/8	5
JHWP-42	1/2	6

Features

- Pierces or marks work by indentation for starting pilot drills in metal or other materials

Made in U.S.A.

JHWP-40

PRICK PUNCHES

Heavy Duty Industrial Grade

Product Code	Stock Size	Length (Inches)
JHWP-30	3/8	5
JHWP-32	1/2	6

Features

- For scribing lines into metal before cutting or riveting, and for punching starting holes for short metal screws
- Point is more tapered than center punch

Made in U.S.A.

JHWP-30

BRONZE DRIFT PUNCHES

Packed in a Pouch

Product Code	Body Size	Overall Length (Inches)
JHWP-63A	3/8	6
JHWP-64A	1/2	7
JHWP-65A	3/4	8

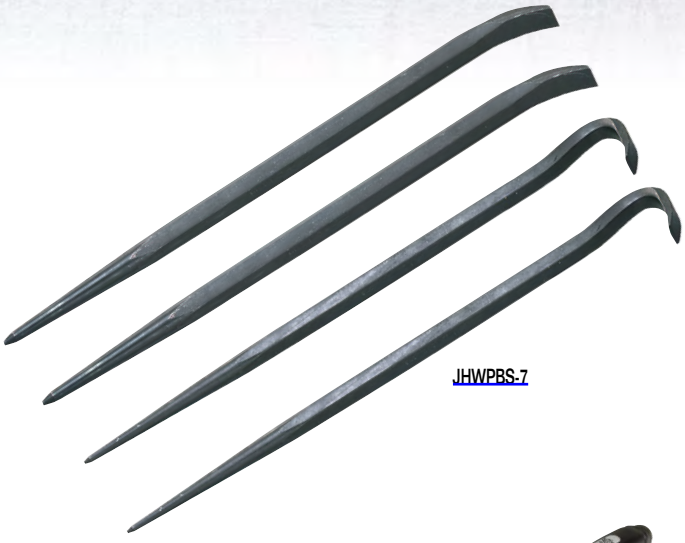
Features

- For aligning unhardened steel or aluminum

Made in U.S.A.

JHWP-64A

WARNING


JHWPBS-7

4 PIECE PINCH & ROLL BAR SET

Heavy Duty Industrial Grade

Product Code	Description
JHWPBS-7	4 Piece Pinch & Roll Bar Set

Contents Include:

Product Code	Description	Stock Diameter (Inches)
JHWC-80A	Pinch Bar	¾
JHWC-82A	Pinch Bar	¾
JHWC-715	Roll Bar	½
JHWC-718	Roll Bar	⅝

Features

- Heavy duty construction for strength and durability

Made in U.S.A.

JHWC-818

PRYBARS - SCREWDRIVER TYPE

Contents Include:

Product Code	Size	Overall Length (Inches)	Product Code	Size	Overall Length (Inches)
JHWC-807	⅜	12	JHWC-836	⅝	36
JHWC-812	⅜	17	JHWC-842	⅝	42
JHWC-818	½	25	JHWC-844	⅞	44
JHWC-824	½	31	JHWC-858	¾	58

JHWC-803

Product Code	Description
JHWC-803	3 Piece Prybar Set

Contents Include:

Product Code	Overall Length (Inches)
JHWC-807	12
JHWC-812	17
JHWC-818	25

Features

- Blade is heat-treated the entire length.
- Handle is ergonomically designed to provide a more comfortable and secure grip
- Curved blade style gives extra leverage
- Capped end allows for striking without damage to handle

Made in U.S.A.

JHWC-90

JHWC-100

LIGHTWEIGHT HANDLE PRYBARS

Single Curved Tip

Product Code	Overall Length (Inches)	Product Code	Overall Length (Inches)
JHWC-90	30	JHWC-92	41 ½
JHWC-91	35 ½	JHWC-93	48 ½

Double End

Product code	Overall length (Inches)	Product code	Overall length (Inches)
JHWC-100	33	JHWC-102	44
JHWC-101	38	JHWC-103	50

Features

- Designed with drop forged hardened steel point & wedge ends
- Rust resistant black finish
- Prybar is chemically bonded to the fiberglass handle
- Half the weight of steel prybars
- Handle resists heat & cold less flex than a steel bar
- Non-Conductive fiberglass provides insulation from electrical shock
- Used by:
  - Contractors & mechanics for construction & auto repair
  - Municipalities for safe prying, lifting & digging
  - Fire & Police - Forcible entry

LADYFOOT PRYBARS

Product Code	Stock Size	Overall Length (Inches)
JHWC-612	½	12
JHWC-616	⅝	16
JHWC-621	¾	21

Features

- Curved end ensures better leverage in small areas
- Other end for aligning work

Made in U.S.A.

JHWC-612

PINCH BARS

Heavy Duty Industrial Grade

Product Code	Overall Length (Inches)	Stock Size	Width of Flat (Inches)
JHWC-80	14	½	⅝
JHWC-82	16	⅝	¾
JHWC-82A	18	¾	⅞
JHWC-83	20	¾	⅞
JHWC-80A	24	¾	⅞
JHWC-84	30	⅞	1
JHWC-85	38	¾	⅞
JHWC-86	42	⅞	1

Features

- Used for aligning, prying and positioning

Made in U.S.A.

JHWC-83

ROLL BARS

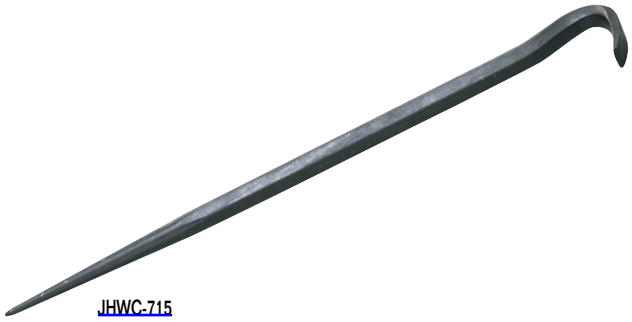
Heavy Duty Industrial Grade

Product Code	Overall Length (Inches)	Stock Size
JHWC-709	9	⅜
JHWC-715	16	½
JHWC-718	18	⅝

Features

- Aligning and prybar with long tapered body and 90° rolling head

Made in U.S.A.



JHWC-715

2 PIECE COMFORT GRIP PRYBAR SET

Bi-Mold Comfort Grip Handles

Product Code	Description
JHW21661	2 Piece Comfort Grip Prybar Set

Contents Include:

Size	Overall Length (Inches)
Small	8
Large	18

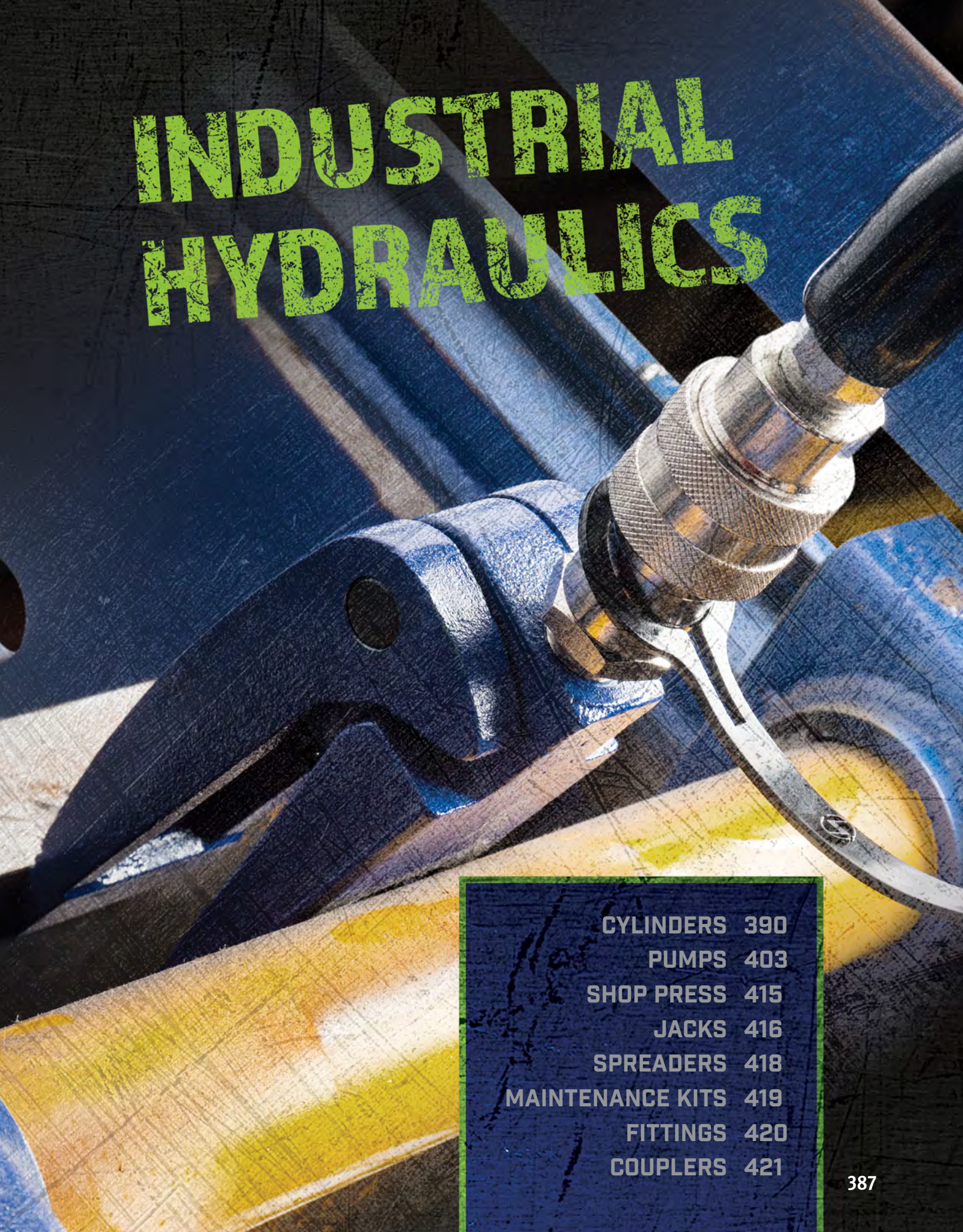
Features

- Bi-mold handles provide comfortable grip, reducing hand fatigue
- Thumb stop on handle provides control during use
- Fulcrum end provides extra prying power

JHW21661

WARNING

INDUSTRIAL HYDRAULICS



CYLINDERS 390
PUMPS 403
SHOP PRESS 415
JACKS 416
SPREADERS 418
MAINTENANCE KITS 419
FITTINGS 420
COUPLERS 421

WILLIAMS®

LOW PROFILE MINI JACKS

SPREADERS

HAND PUMPS

Large oil capacities to power a wide range of cylinders and tools

Release valve for overload protection

Spring loaded handle lock pin

CYLINDERS

Heavy-duty, heat-treated, grooved saddle provides better surface traction during operation

Rod wiper seals out dirt and contamination

Hard, chrome-plated rod prevents scratching and corrosion

1-Piece steel rod stopper for extra strength prevents over-travel

Polyurethane cup seal provides optimum performance

Rectangular return spring design eliminates spring breakage and provides quicker retraction

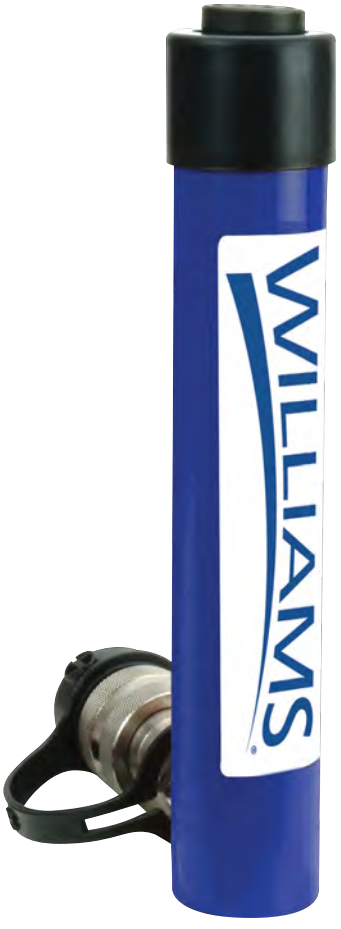
Steel stop ring for rod over-travel protection

Collar fixture threads

Burnish-rolled cylinders for smoother finish than honing which reduces scoring and prolongs seal life

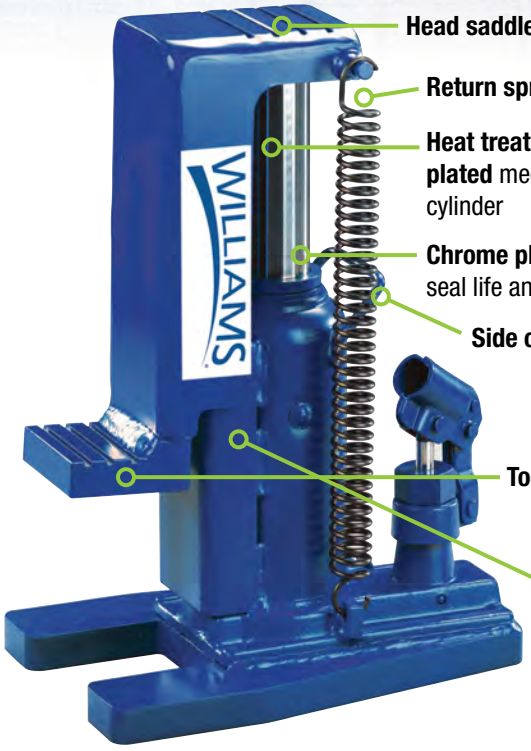
1-Piece high grade alloy bearing for side load protection and long life

High flow ball coupler provides more flow than conventional couplers



INDUSTRIAL HYDRAULICS

TOE JACKS



Head saddle

Return spring

Heat treated and chrome plated medium-carbon steel cylinder

Chrome plated ram promotes longer seal life and optimum performance

Side carry handle

Toe saddle

U.S. Patented by-pass device protects hydraulic system from over traveling damage

SUPERIOR QUALITY. MORE RELIABILITY.

MAINTENANCE KITS

Portable for easy use in the plant or on the job site

Custom fitted, rugged, blow-molded storage case (10-ton set has wheels for easy movement)

Extension tubes

Cylinder

Hand pumps are rated from 8,000 to 10,000 PSI

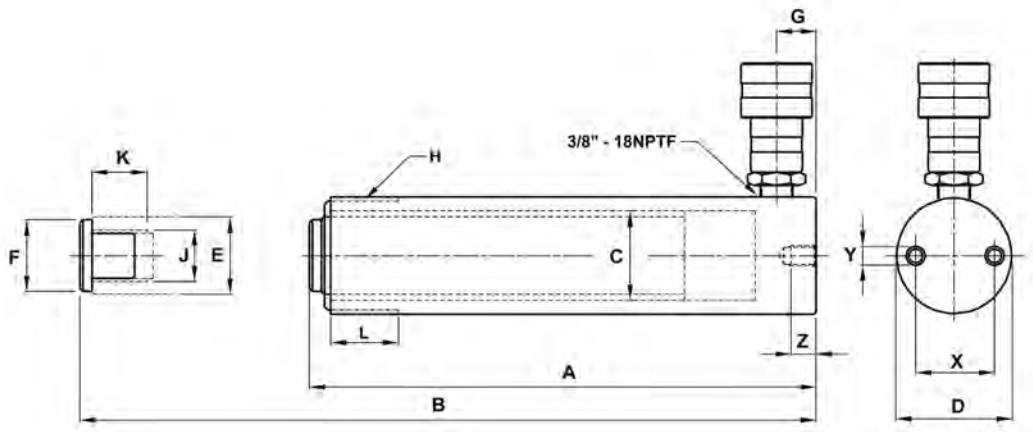
Accessories

Spreader

Williams® Hydraulics are interchangeable with other manufacturers. All pumps and cylinders are marathon tested to 10,000 cycles.

SINGLE ACTING CYLINDERS

- 39 models
- Internal plunger threads
- Snap in grooved saddles
- Rod wiper seals out dirt and contamination
- Collar fixture threads
- Two base mounting holes on most models
- High strength steel construction from gun drilled solid bar
- High flow 3/8" NPTF couplers
- Collar thread protector
- One piece high grade alloy bearing for side load protection and long life
- Polyurethane cup seal provides optimum performance
- Industrial hard chrome plated ram helps prevent rust and corrosion
- Solid steel cylinder body
- Heavy duty return spring provides quicker retraction
- Ideal for lifting and pressing
- Maximum working pressure: 10,000 psi / 700 bar
- See page 421 for Cylinder accessories



CYLINDER DIMENSIONS

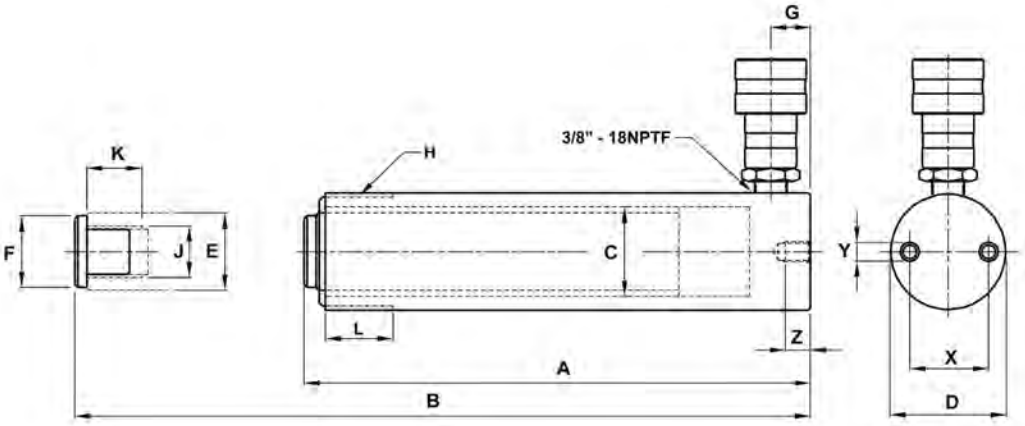
Cylinder Capacity (tons)	Stroke (in)	Product Code	Cylinder Effective Area (in^2)	Pressure at Capacity (psi)	Oil Capacity (in^3)	Collapsed Height A (in)	Extended Height B (in)	Cylinder Bore Dia. C (in)	Outside Dia. D (in)	Plunger Dia. E (in)	
5	0.63	JHWGC05T00	1.10	9,090	0.69	1.61	2.24	1.18	2.36 x 1.58	0.98	
	1.00	JHWGC05T01	1.00	10,000	1.00	4.58	5.58	1.13	1.50	1.00	
	3.07	JHWGC05T03			3.07	6.65	9.72				
	5.08	JHWGC05T05			5.08	8.70	59.50				
	7.09	JHWGC05T07			7.09	10.71	17.80				
	9.09	JHWGC05T09			9.09	12.72	21.81				
10	1.00	JHWGC10T01	2.24	8,930	2.24	3.62	4.62	1.69	2.26	1.49	
	2.01	JHWGC10T02			4.50	4.84	6.85	1.69	2.26	1.49	
	4.02	JHWGC10T04			9.00	6.85	10.87				
	5.94	JHWGC10T06			13.31	9.84	15.78				
	7.95	JHWGC10T08			17.81	11.85	19.80				
	9.96	JHWGC10T10			22.31	13.86	23.82				
	11.97	JHWGC10T12			26.81	15.87	27.84				
	14.02	JHWGC10T14			31.40	17.72	31.74				

WARNING

JHW6C05T05 JHW6C05T07 JHW6C10T06 JHW6C10T02

	Saddle Dia.	Base to Inlet Port	Collar Thread	Collar Thread Length	Plunger Internal Thread	Plunger Thread Length	Base Mounting Hole			Product Code
							Bolt Circle	Thread	Thread Depth	
	F (in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	
	N/A	0.75	N/A	N/A	N/A	N/A	1.10	0.2	N/A	JHW6C05T00
	0.98	0.79	1 ½ -16	1.10	¾"-16UNF	0.63	1.00	¼" - 20UNC	0.55	JHW6C05T01
										JHW6C05T03
										JHW6C05T05
										JHW6C05T07
										JHW6C05T09
	N/A	0.77	2 ¼ -14	1.30	#10-24UNC	0.24	1.56	5/16" - 18UNC	0.55	JHW6C10T01
	1.38	0.77	2 ¼ -14	1.30	1"-8UNC	0.79	1.56	5/16"-18UNC	0.55	JHW6C10T02
										JHW6C10T04
										JHW6C10T06
										JHW6C10T08
										JHW6C10T10
										JHW6C10T12
										JHW6C10T14

SINGLE ACTING CYLINDERS



JHW6C30T08

CYLINDER DIMENSIONS

Cylinder Capacity (tons)	Stroke (in)	Product Code	Cylinder Effective Area (in^2)	Pressure at Capacity (psi)	Oil Capacity (in^3)	Collapsed Height A (in)	Extended Height B (in)	Cylinder Bore Dia. C (in)	Outside Dia. D (in)	Plunger Dia. E (in)	Saddle Dia. F (in)	
15	0.99	JHW6C15T01	3.14	9,550	3.11	4.88	5.87	2.00	2.75	1.63	1.50	
	2.01	JHW6C15T02			6.31	5.87	7.88					
	3.98	JHW6C15T04			12.50	7.87	11.85					
	5.87	JHW6C15T06			18.43	10.67	16.54					
	7.87	JHW6C15T08			24.71	12.68	20.55					
	9.88	JHW6C15T10			31.02	14.69	24.57					
	12.01	JHW6C15T12			37.71	16.65	28.66					
	14.02	JHW6C15T14			44.02	18.66	32.68					
25	1.02	JHW6C25T01	5.14	9,730	5.24	5.84	6.86	2.56	3.35	2.24	1.97	
	2.01	JHW6C25T02			10.33	6.82	8.83					
	3.94	JHW6C25T04			20.25	8.78	12.72					
	5.94	JHW6C25T06			30.53	10.79	16.73					
	7.95	JHW6C25T08			40.86	12.80	20.75					
	9.96	JHW6C25T10			51.19	14.80	24.76					
	12.24	JHW6C25T12			62.91	16.73	28.97					
	14.25	JHW6C25T14			73.25	18.74	32.99					
30	8.27	JHW6C30T08	6.49	9,240	53.67	15.24	23.51	2.87	4.00	2.24	2.13	
55	2.01	JHW6C55T02	10.99	10,000	22.09	6.93	8.94	3.74	5.00	3.15	2.76	
	3.98	JHW6C55T04			43.74	8.94	12.92					
	6.22	JHW6C55T06			68.36	11.14	17.36					
	13.27	JHW6C55T13			145.84	18.15	31.42					
75	6.14	JHW6C75T06	16.10	9,320	98.85	11.22	17.36	4.53	5.79	3.74	2.76	
	13.11	JHW6C75T13			211.07	19.37	32.48					
100	6.61	JHW6C100T06	20.57	9,720	135.97	14.06	20.67	5.12	6.97	4.13	2.76	
	10.24	JHW6C100T10			210.64	17.68	27.92					

⚠WARNING

JHW6C15T06

JHW6C25T10

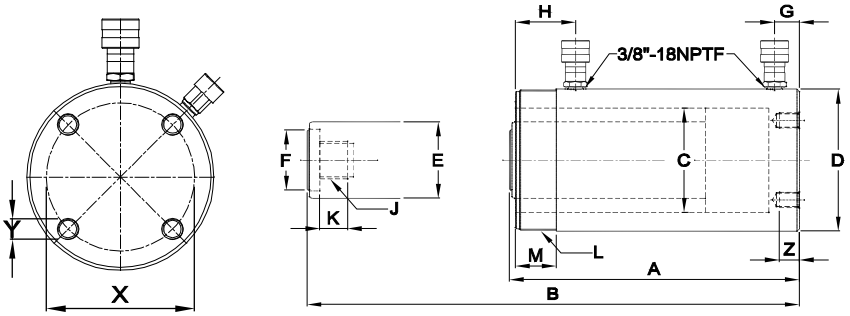
JHW6C55T06

JHW6C100T06

	Base to Inlet Port	Collar Thread	Collar Thread Length	Plunger Internal Thread	Plunger Thread Length	Base Mounting Hole			Product Code
						Bolt Circle	Thread	Thread Depth	
	G (in)	H (in)	L (in)	J (in)	K (in)	X (in)	Y (in)	Z (in)	
	0.98	2 ¾ -16	1.18	1"-8UNC	0.98	1.88	⅜"-16UNC	0.51	JHW6C15T01
									JHW6C15T02
									JHW6C15T04
									JHW6C15T06
									JHW6C15T08
									JHW6C15T10
									JHW6C15T12
									JHW6C15T14
	0.98	3 5/16 -12	1.93	1 ½ -16	1.18	2.31	½"-13UNC	0.75	JHW6C25T01
									JHW6C25T02
									JHW6C25T04
									JHW6C25T06
									JHW6C25T08
									JHW6C25T10
									JHW6C25T12
									JHW6C25T14
	1.97	3 5/16 -12	1.93	1 ½ -16	1.18	N/A			JHW6C30T08
	1.22	5 - 12	2.17	N/A		3.75	½"-13UNC	0.75	JHW6C55T02
									JHW6C55T04
									JHW6C55T06
									JHW6C55T13
	1.18	5 ¾ - 12	1.73	N/A					JHW6C75T06
									JHW6C75T13
	1.57	6 ⅛ - 12	1.73	N/A		5.50	¾"-10UNC	1	JHW6C100T06
									JHW6C100T10

DOUBLE ACTING CYLINDERS

- Rod wiper seals out dirt and contamination
- High strength steel construction from gun drilled solid bar
- High flow 3/8" NPTF couplers
- One piece high grade alloy bearing for side load protection and long life
- Ideal for pushing and pulling
- Maximum working pressure: 10,000 psi / 700 bar
- See page 421 for Cylinder accessories



JHW6CD55T13

DOUBLE ACTING CYLINDER SPECIFICATIONS

Cylinder Capacity	Stroke	Product Code	Maximum Cylinder Capacity		Cylinder Effective Area		Oil Capacity		Collapsed Height	Extended Height	Cylinder Bore Dia.	Outside Dia.
(tons)	(in)		Push (ton)	Pull (ton)	Push (in^2)	Pull (in^2)	Push (in^3)	Pull (in)	A (in)	B (in)	C (in)	D (in)
10	10.04	JHW6CD10T10	11.4	3.8	2.23	0.74	22.41	7.47	16.14	26.18	1.69	2.87
	11.97	JHW6CD10T12					26.71	8.90	18.03	30.00		
30	8.15	JHW6CD30T08	32.9	16.2	6.49	3.19	52.93	26.02	15.31	23.46	2.87	3.98
	14.49	JHW6CD30T15					94.09	46.26	21.65	36.14		
55	6.18	JHW6CD55T06	55.7	16.2	10.99	3.19	67.93	19.74	13.03	19.21	3.74	5.00
	13.19	JHW6CD55T13					144.94	42.11	20.04	33.23		
	20.12	JHW6CD55T20					221.09	64.24	28.86	49.98		
75	6.10	JHW6CD75T06	81.7	25.9	16.09	5.12	98.1	31.21	13.70	19.80	4.53	5.75
	13.11	JHW6CD75T13					210.93	67.06	20.71	33.82		
100	6.57	JHW6CD100T06	104.4	48.6	20.57	9.58	135.23	62.98	14.06	20.63	5.12	6.97
	13.11	JHW6CD100T13					269.66	125.58	20.63	33.74		
	18.15	JHW6CD100T18					373.31	173.86	27.05	45.20		

DOUBLE ACTING CYLINDER DIMENSIONS

Product Code	Plunger Dia.	Saddle Dia.	Base to Adv. Port	Top to Return Port	Plunger Internal Thread	Plunger Thread Length	Collar Thread	Collar Thread Length	Base Mounting Hole			Weight (lbs)
									Bolt Circle	Thread	Thread Depth	
	E (in)	F (in)	G (in)	H (in)	J (in)	K (in)	L (in)	M (in)	X (in)	Y (in)	Z (in)	
JHW6CD10T10	1.37	1.38	1.42	2.09	1 - 8	0.98	2¼ - 14	1.02	N/A			26.7
JHW6CD10T12												30.0
JHW6CD30T08	2.13	1.97	1.65	2.91	1½ - 16	0.98	3 5/16 - 12	1.93	N/A			43.0
JHW6CD30T15												60.6
JHW6CD55T06	3.14	2.76	1.14	2.87	1 - 12	0.98	5 - 12	1.73	N/A			70.5
JHW6CD55T13												104.0
JHW6CD55T20			2.48									146.2
JHW6CD75T06	3.75	2.76	1.18	2.80	1 - 12	1.50	5¾ - 12	1.50	N/A			93.7
JHW6CD75T13												136.8
JHW6CD100T06	3.75	2.95	1.22	2.95	1¾ - 12	1.38	6 ⅞ - 12	1.97	5.47	¾ - 10	0.98	138.6
JHW6CD100T13												193.6
JHW6CD100T18			1.50									248.3

⚠WARNING

JHW6CN55T12

LOCK NUT CYLINDERS

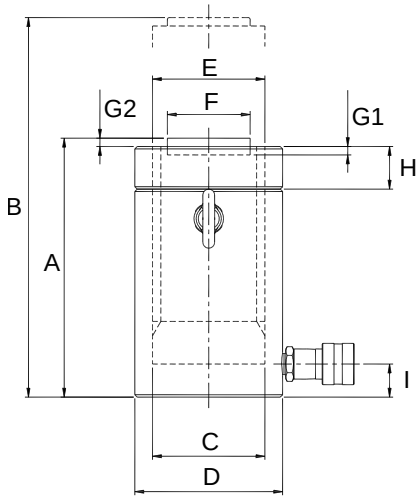
- Single acting cylinder with mechanical safety lock nut
- Designed to support load for extended periods without hydraulic pressure.
- Overflow port prevents cylinders from over travel
- Load return
- Solid steel cylinder body
- Ideal for lifting and holding loads
- Maximum working pressure: 10,000 psi / 700 bar
- See page 421 for Cylinder accessories

LOCK NUT CYLINDERS SPECIFICATIONS

Cylinder Capacity	Stroke	Product Code	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Cylinder Bore Diameter	Outside Diameter	Plunger Outside Thread
(tons)	(in)		(in^2)	(in^3)	A (in)	B (in)	C (in)	D (in)	E
55	1.97	JHW6CN55T02	10.99	21.65	6.5	8.4	3.7	4.9	Tw95-6N
	3.94	JHW6CN55T04		43.27	8.4	12.4			
	5.91	JHW6CN55T06		64.90	10.4	16.3			
	7.87	JHW6CN55T08		86.54	12.4	20.2			
	9.84	JHW6CN55T10		108.17	14.3	24.2			
	11.81	JHW6CN55T12		129.80	16.3	28.1			
100	1.97	JHW6CN100T02	20.57	40.49	7.4	9.3	5.1	6.5	Tw130-4N
	3.94	JHW6CN100T04		80.98	9.3	13.3			
	5.91	JHW6CN100T06		121.48	11.3	17.2			
	7.87	JHW6CN100T08		161.97	13.3	21.1			
	9.84	JHW6CN100T10		202.46	15.2	25.1			
	11.81	JHW6CN100T12		242.95	17.2	29.0			

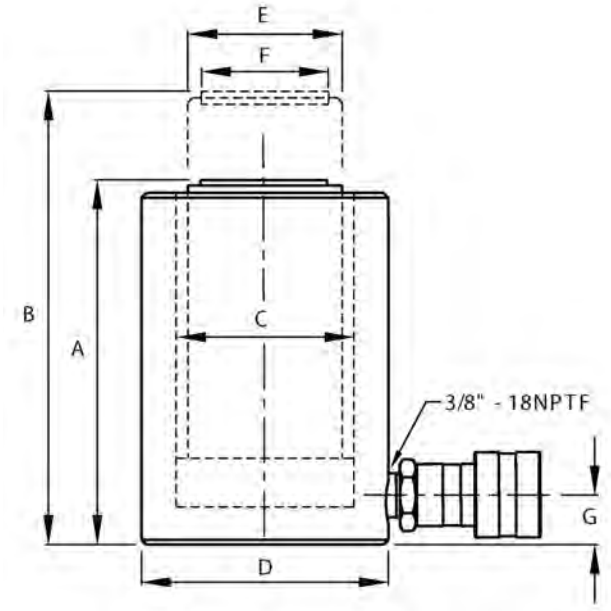
LOCK NUT CYLINDERS DIMENSIONS

Product Code	Saddle Diameter	Depth of Plunger Hole	Saddle Protrusion from Plunger	Lock Nut Length	Base to Inlet Port	Weight (lbs)
	F (in)	G1 (in)	G2 (in)	H (in)	I (in)	
JHW6CN55T02	2.8	0.08	0.51	1.4	1.1	34.0
JHW6CN55T04						44.5
JHW6CN55T06						55.1
JHW6CN55T08						65.9
JHW6CN55T10						76.5
JHW6CN55T12						87.1
JHW6CN100T02				1.8		67.2
JHW6CN100T04						85.8
JHW6CN100T06						104.3
JHW6CN100T08						122.6
JHW6CN100T10						141.1
JHW6CN100T12						159.6



ALUMINUM CYLINDERS

- Lightweight aluminum alloy construction
- Up to 60 percent lighter than comparable tonnage steel rams
- Convenient carry handle
- Hard anodized aluminum piston rod provides extra protection against corrosion and wear
- Maximum working pressure: 10,000 psi / 700 bar
- See page 421 for Cylinder accessories



JHW6CA30T06

ALUMINUM CYLINDER DIMENSIONS

Cylinder Capacity	Stroke	Product Code	Cylinder Effective Area	Internal Pressure at Capacity	Oil Capacity	Collapsed Height	Extended Height	Cylinder Bore Dia.	Outside Dia.	Plunger Dia.	Saddle Dia.	Base to Inlet Port	Weight
(tons)	(in)		(in^2)	(psi)	(in^3)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	(lbs)
30	2.00	JHW6CA30T02	6.50	9,231	13.00	6.50	8.50	2.90	4.50	2.50	2.00	1.5	11.0
	4.00	JHW6CA30T04			26.00	8.50	12.50						14.0
	6.00	JHW6CA30T06			39.00	10.50	16.50						17.0
50	2.00	JHW6CA50T02	11.00	9,091	22.00	6.50	8.50	3.70	5.50	3.10	2.50		17.0
	4.00	JHW6CA50T04			44.00	8.50	12.50						21.0
	6.00	JHW6CA50T06			66.00	10.50	16.50						25.0
	10.00	JHW6CA50T10			110.00	14.50	24.50						34.0
75	4.00	JHW6CA75T04	15.00	10,000	60.00	8.50	12.50	4.40	6.50	3.90	3.00		29.0
	6.00	JHW6CA75T06			90.00	10.50	16.50						35.0
100	2.00	JHW6CA100T02	20.70	9,662	41.40	6.50	8.50	5.10	8.00	4.30	3.50		36.0
	4.00	JHW6CA100T04			82.80	8.50	12.50						43.0
	6.00	JHW6CA100T06			124.40	10.50	16.50						51.0
	10.00	JHW6CA100T10			207.0	14.50	24.50						68.0

⚠WARNING

FLAT BODY CYLINDERS

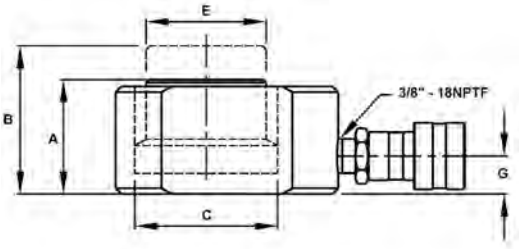
- Made of high quality steel
- Extremely low collapsed height for applications with minimal clearance at the lift point
- Great for areas of low clearance
- Maximum working pressure 10,000 psi / 700 bar
- See page 421 for Cylinder accessories

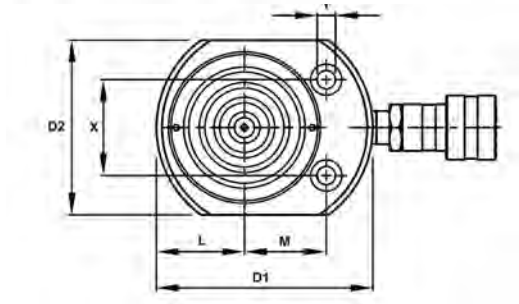
JHW6CF05T03

JHW6CF20T05

JHW6CF10T05

JHW6CF30T05





FLAT BODY CYLINDER DIMENSIONS

Cylinder Mounting Hole Dimensions (in)				
Product Code	Hole Pitch	Hole Dia	Counter Bore Dia.	Counter Bore Depth
	X (in)	Y (in)	(in)	(in)
JHW6CF05T03	1.12	0.2	0.31	0.17
JHW6CF10T05	1.44	0.28	0.42	0.31
JHW6CF20T05	1.94	0.4	0.59	0.39
JHW6CF30T05	2.06	0.4	0.62	0.44
JHW6CF50T05	2.62	0.43	0.75	0.50

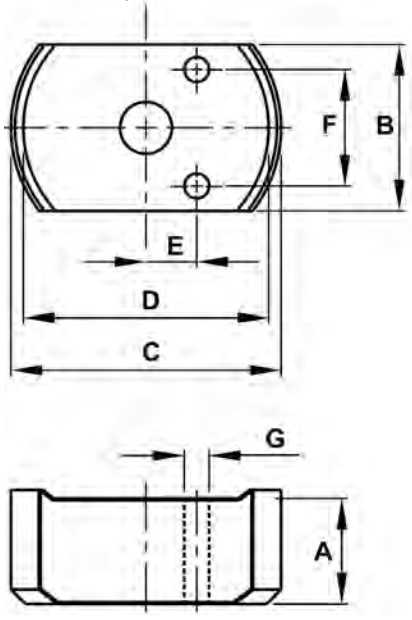
FLAT BODY CYLINDER DIMENSIONS

Cylinder Capacity	Stroke	Product Code	Cylinder Effective Area	Pressure at Capacity	Oil Capacity	Collapsed Height	Extended Height	Outside Dim. D1 x D2	Cylinder Bore Dia.	Plunger Dia.	Base to Port	Plunger to Base	Plunger to Mtg. Hole
(tons)	(in)		(in^2)	(psi)	(in^3)	A (in)	B (in)	(in)	C (in)	E (in)	G (in)	L (in)	M (in)
5	0.24	JHW6CF05T03	1.10	9,090	0.26	1.26	1.5	2.4 x 1.6	1.18	0.98	0.69	0.80	0.87
10	0.43	JHW6CF10T05	2.36	8,470	1.01	1.69	2.12	3.3 x 2.2	1.73	1.50	0.77	1.12	1.32
20	0.43	JHW6CF20T05	4.38	9,130	1.88	2.01	2.44	4.0 x 3.0	2.36	2.00	0.75	1.54	1.56
30	0.51	JHW6CF30T05	6.49	9,240	3.31	2.31	2.82	4.6 x 3.8	2.87	2.50	0.79	1.88	1.75
50	.63	JHW6CF50T05	9.86	10,140	6.21	2.64	3.27	4.5 x 4.5	3.54	2.76	0.79	2.25	2.13

FLAT BODY CYLINDER KITS

- Various height magnetic adapters
- Perfect for low clearance areas needing a cylinder height boost
- Maximum working pressure: 10,000 psi / 700 bar
- Kits include magnetic adapters and carrying case
- See page 421 for Cylinder accessories

Flat Body Kit Spacers



JH6CF05T03TB

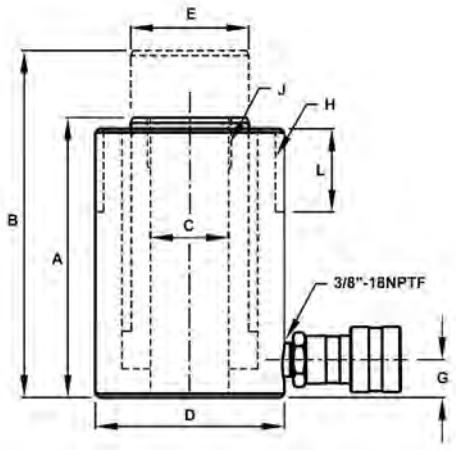
FLAT BODY CYLINDER KIT DIMENSIONS

Cylinder Capacity (tons)	Stroke (in)	Product Code	Cylinder Model	Oil Capacity (in^3)	Collapsed Height (in)	Includes Adapter	Adapter Dimensions (in) A	B	C	D	E	F	G
5	0.24	JH6CF05T03TB	JHW6CF05T03	0.26	1.26	I	0.25	1.61	2.56	2.32	0.48	1.10	0.24
						II	0.5						
						III	1						
						IV	1.25						
10	0.43	JH6CF10T05TB	JHW6CF10T05	1.02	1.69	I	0.39	2.20	3.54	3.23	0.81	1.46	0.28
						II	0.79				N/A		
						III	1.57						
20	0.43	JH6CF20T05TB	JHW6CF20T05	1.90	2.01	I	0.39	2.99	4.25	3.94	1.08	1.93	0.39
						II	0.79				N/A		
						III	1.57						
30	0.51	JH6CF30T05TB	JHW6CF30T05	3.32	2.31	I	0.39	3.75	4.76	4.45	1.32	2.06	0.39
						II	0.79				N/A		
						III	1.57						

JHW6CH30T06

HOLLOW HOLE CYLINDERS

- 6 standard models
- Ideal for some pulling and pushing applications
- Heavy duty compression spring
- Dual wipers help prevent contamination
- Collar thread protector
- High flow coupler with dust cap
- See page 421 for Cylinder accessories



HOLLOW HOLE CYLINDER DIMENSIONS

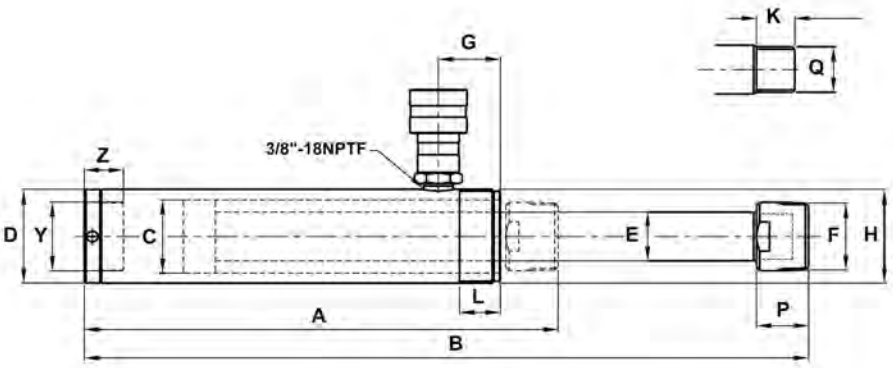
Cylinder Capacity	Stroke	Product Code	Cylinder Effective Area	Pressure at Capacity	Oil Cap.	Min. Height	Max. Height	O.D.	Plunger			Internal Thread Length
									I.D.	O.D.	Internal Thread	
(tons)	(in)		(in^2)	(psi)	(in^3)	A (in)	B (in)	D (in)	C (in)	E (in)	J (in)	K (in)
12	3.00	JHW6CH12T03	2.91	8,236	8.72	7.24	10.24	2.760	0.770	1.38	-	-
20	2.01	JHW6CH20T02	4.90	8,167	9.83	6.38	8.39	3.92	1.063	2.15	1 9/16"-16UN	0.75
	6.06	JHW6CH20T06			29.70	12.05	18.11					
30	2.52	JHW6CH30T02	6.32	9,488	15.93	7.05	9.57	4.50	1.311	2.48	1 13/16"-16UN	0.87
	6.11	JHW6CH30T06			38.67	13.02	19.13					
60	3.00	JHW6CH60T03	13.05	9,195	39.10	9.77	12.77	6.252	2.126	3.66	2 3/4"-16UN	0.75
100	3.00	JHW6CH100T03	22.13	9,036	66.31	10.00	13.00	8.386	3.110	4.92	4"-16UN	0.98

HOLLOW HOLE CYLINDER SPECIFICATIONS

Product Code	Collar Thread		Base to Inlet Port	Base Mounting Hole			Weights
	Dia.	Lgth.		Bolt Circle	Thread	Thread Depth	
	H (in)	L (in)	G (in)	X (in)	Y (in)	Z (in)	(lbs)
JHW6CH12T03	2 3/4"-16	1.81	0.75	2.00	5/16"-18UNC	0.35	8.6
JHW6CH20T02	3 1/8-12	1.50	0.75	3.25	3/8"-16UNC	0.37	15.9
JHW6CH20T06							29.5
JHW6CH30T02	4 1/2-12	1.75	0.81		3/8"-16UNC	0.55	22.9
JHW6CH30T06							43.0
JHW6CH60T03	6 1/4-12	2	1.00		1/2"-13UNC	0.55	65.7
							81.1
JHW6CH100T03	6 3/8-12	2.38	1.06	7.01	5/8"-11UNC	0.75	113.3

PULL CYLINDERS

- High strength steel construction
- One piece high grade alloy bearing for side load protection and longer life
- Polyurethane cup seal helps provide optimum performance
- External plunger threads
- Internal base threads
- Used for pulling and tensioning
- Maximum working pressure: 10,000 psi / 700 bar
- See page 421 for Cylinder accessories



JHW6CP02T05

PULL CYLINDER DIMENSIONS

Cylinder Capacity	Stroke	Product Code	Cylinder Effective Area	Pressure at Capacity	Oil Capacity	Collapsed Height	Extended Height	Outside Dia.	Cylinder Bore Dia.	Top to Inlet Port	Collar	
											Thread	Thread Length
(tons)	(in)		(in^2)	(psi)	(in^3)	A (in)	B (in)	D (in)	C (in)	G (in)	H (in)	L (in)
2.5	5.00	JHW6CP02T05	0.56	8,930	2.78	10.55	15.55	1.89	1.13	1.65	1 ½"-16	0.98
5	5.55	JHW6CP05T05	1.14	8,770	6.34	11.85	17.35	2.25	1.69	1.50	2 ¼"-14	1
10	5.95	JHW6CP10T06	2.44	8,200	14.48	11.75	17.7	3.35	2.17	1.50	M85x2	1

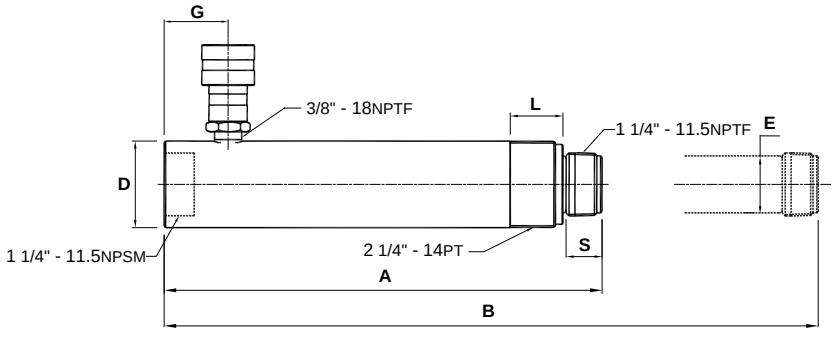
Product Code	Adapter		Plunger			Base Mounting Hole	
	Thread	Length	Dia.	Thread Length	Thread	Thread	Depth
	F (in)	P (in)	E (in)	K (in)	Q (mm)	H	Z (in)
JHW6CP02T05	¾"-14NPTF	1.13	0.75	0.76	M16x1.5	¾"-14NPTF	0.72
JHW6CP05T05	1 ¼"-11.5NPTF	1.25	1.18	0.93	M28x1.5	1 ¼"-11.5NPTF	0.95
JHW6CP10T06	-	-	1.26	1.02	M30x2	M30x2	0.98

JHW6C10T06

JHW6C10T10

THREADED HOLE CYLINDERS

- High quality threaded single acting cylinders
- Removable threaded plunger adapter allows for the use of a variety of threaded attachments
- Used to attach accessories to rod end and base
- Maximum working pressure: 10,000 psi / 700 bar
- See page 421 for Cylinder accessories



THREADED HOLE CYLINDER DIMENSIONS

Cylinder Capacity	Stroke	Product Code	Cylinder Effective Area	Pressure at Capacity	Oil Capacity	Collapsed Height	Extended Height	Outside Dia.	Plunger Dia.	Base to Inlet Port	Collar Thread Length	Saddle Height
(tons)	(in)		(in^2)	(psi)	(in^3)	A (in)	B (in)	D (in)	E (in)	G (in)	L (in)	S (in)
10	5.95	JHW6CT10T06	2.24	8,930	13.33	11.46	17.41	2.26	1.49	1.67	1.13	0.94
10	9.96	JHW6CT10T10			22.31	15.47	25.43					

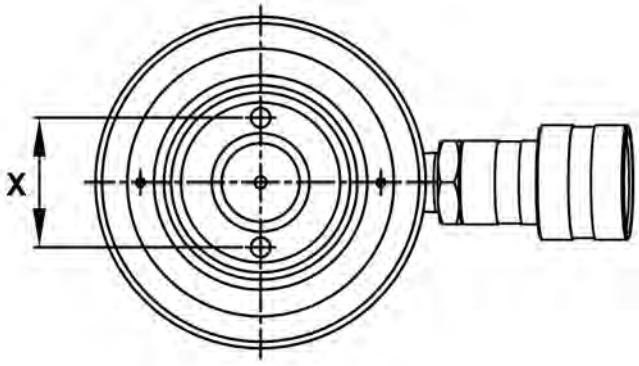
LOW PROFILE CYLINDERS

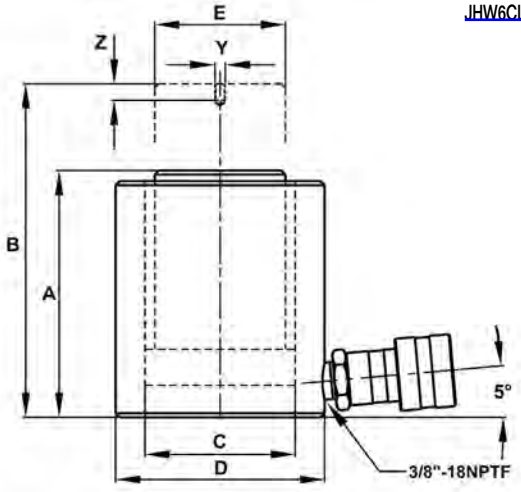
- Compact design for use in confined spaces
- Rod wiper helps seal out dirt and contamination
- Specially designed return spring ensures a quick retraction and extends the life of the spring
- Industrial hard chrome plated ram helps prevent scratching and corrosion
- Plunger end is grooved to reduce load slippage
- Includes high flow ball coupler and dust cap
- Coupler is tilted upward for added clearance
- Maximum working pressure: 10,000 psi/700 bar
- See page 421 for Cylinder accessories

JHW6CL20T02

JHW6CL30T02

JHW6CL10T01





LOW PROFILE CYLINDER DIMENSIONS

Cylinder Capacity	Stroke	Product Code	Cylinder Effective Area	Internal Pressure at Capacity	Oil Capacity	Collapsed Height	Extended Height	Outside Dia.	Cylinder Bore Dia.	Plunger Dia.	Plunger Mounting		
						A	B	D	C	E	Bolt Circle X	Thread Y	Thread Depth Z
(tons)	(in)		(in^2)	(psi)	(in^3)	(in)	(in)	(in)	(in)	(in)	(in)	(mm)	(in)
10	1.50	JHW6CL10T01	2.35	8,511	3.53	3.48	4.98	2.75	1.73	1.50	1.03	M4	0.32
20	1.75	JHW6CL20T02	4.37	9,153	7.65	3.90	5.65	3.63	2.36	2.00	1.56	M4	0.32
30	2.44	JHW6CL30T02	6.49	9,245	15.84	4.61	7.05	4.00	2.87	2.50	1.56	M5	0.32
50	2.36	JHW6CL50T02	9.87	10,132	23.29	4.8	7.17	3.54	4.88	2.76	1.56	M5	0.32

⚠WARNING

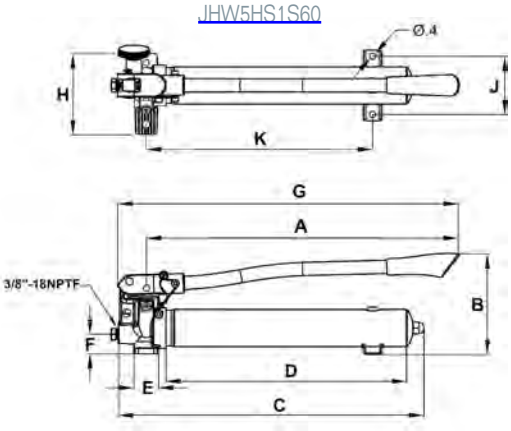
HAND PUMPS

- **JHW5HS2S35**, **JHW5HS2S100** and **JHW5HS2S200** feature 2 speed operation
- Pressure relief valve for overload protection
- Load release valve for single acting cylinder usage
- Large oil capacities to power a wide range of cylinders and tools
- **JHW5HS2S35** and **JHW5HS2S100** are constructed of high strength lightweight aluminum alloy for easy handling and corrosion resistance that resists cracks and leaking
- All hand pumps function in horizontal positions and will also function in some vertical positions
- Maximum working pressure: 10,000 psi / 700 bar

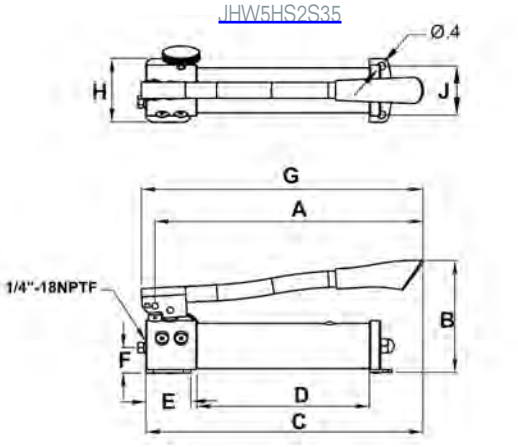
JHW5HS1S60

JHW5HS2S35

JHW5HS1S60



JHW5HS2S35



HAND PUMP SPECIFICATIONS

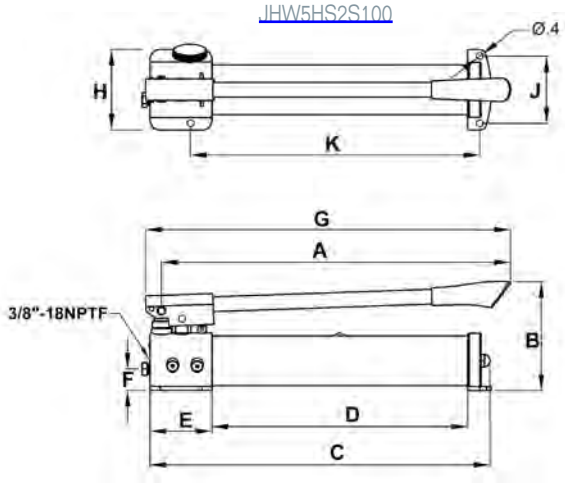
Used with Cylinder	Pump Type	Usable Oil Capacity	Product Code	Pressure Rating (psi)		Oil Displacement per Stroke (in³)		Max. Operating Force	Piston Stroke	Oil Outlet Port
		(in³)		1st Stage	2nd Stage	1st Stage	2nd Stage	(lbs)	(in)	
Single Acting	Single-speed	36.5	JHW5HS1S60		10,000		0.15	109	0.79	3/8"-18NPTF
		67.0	JHW5HS1S120				0.13	89	0.82	3/8"-18NPTF
	Two-speed	21.4	JHW5HS2S35	200		0.18	0.05	88	0.38	¼"-18NPTF
		61.0	JHW5HS2S100			0.81	0.14	132	0.82	3/8"-18NPTF
		128.0	JHW5HS2S200							

HAND PUMPS

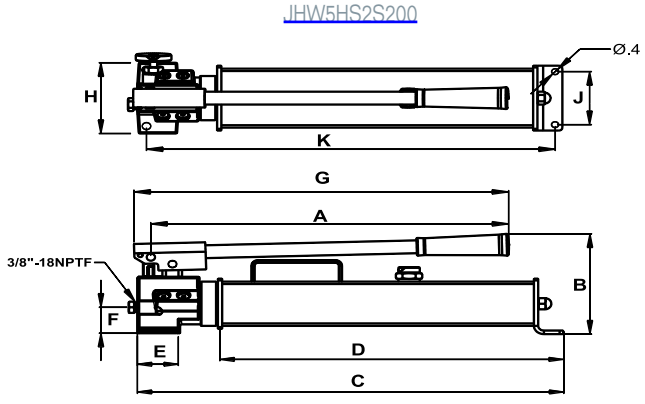
JHW5HS2S100

JHW5HS2S200

JHW5HS2S100



JHW5HS2S200



HAND PUMP DIMENSIONS

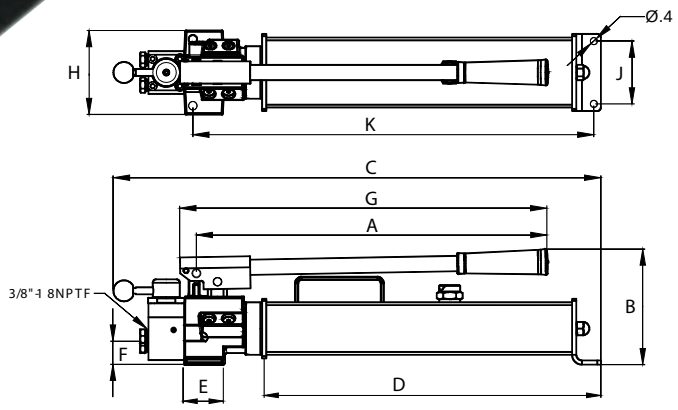
Product Code	Dimensions (in)									
	A	B	C	D	E	F	G	H	J	K
JHW5HS1S60	18.94	6.46	19.53	15.35	1.57	1.26	20.79	5.20	3.74	14.45
JHW5HS1S120	20.50	6.50	21.75	17.50	2.13	1.75	22.63	5.25	3.74	21.25
JHW5HS2S35	13.43	5.91	13.89	9.09	2.36	1.34	14.13	3.35	2.56	-
JHW5HS2S100	19.69	6.38	19.88	14.96	3.62	1.26	20.63	4.72	3.94	16.93
JHW5HS2S200	19.75	6.64	23.69	18.37	2.36	1.73	20.71	4.72	3.54	22.56

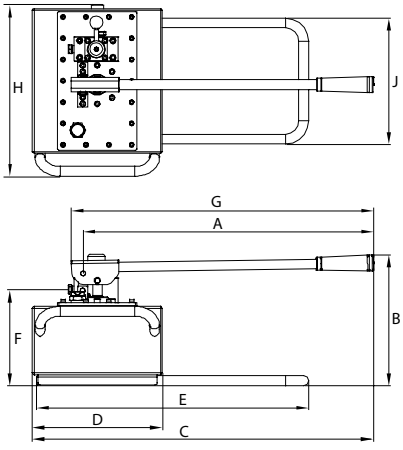
⚠WARNING

DOUBLE ACTING HAND PUMPS

- A 4-way control valve for operation of double acting cylinders
- Large oil capacities to power a wide range of cylinders and tools
- Two speed operation increases productivity and reduces user fatigue
- Metal reservoirs are made of steel or aluminum alloy and resists cracks and leaking

JHW5HD2S500





DOUBLE ACTING HAND PUMP SPECIFICATIONS

Used with Cylinder	Pump Type	Usable Oil Capacity	Product Code	Pressure Rating		Oil Displacement per Stroke		Max. Operating Force	Piston Stroke	Oil Outlet Port	Weight
				1st Stage (psi)	2nd Stage (psi)	1st Stage (in^3)	2nd Stage (in^3)	(lbs)	(in)		(lbs)
Double Acting	Two Speed	128.0	JHW5HD2S100	200	10,000	0.81	0.14	132	0.82	3.8"-18NPTF	32.2
		476.0	JHW5HD2S500	290		7.31	0.29	143	1.67		77.4

DOUBLE ACTING HAND PUMP DIMENSIONS

Product Code	Dimensions (in)									
	A	B	C	D	E	F	G	H	J	K
JHW5HD2S100	19.75	6.64	23.69	18.37	2.36	1.73	20.71	4.72	3.54	22.56
JHW5HD2S500	25.79	11.61	30.35	11.54	24.17	8.25	26.94	15.24	11.18	-

AIR PUMPS

- High strength reinforced aluminum alloy reservoir is lightweight and corrosion resistant that resists cracks and leaking
- Pressure relief valve for overload protection
- Suggested air pressure range: 90-175 psi / 6-12 bar
- Designed to be used with single acting cylinders
- Dust cover protection for the release control valve
- Dual stage release control valve
- 5AS200 offers a turbo function that features high flow at high pressure condition
- 5AD150M offers a 4-way control valve for operation of double acting cylinders
- Maximum working pressure: 10,000 psi / 700 bar

JHW5AD150M

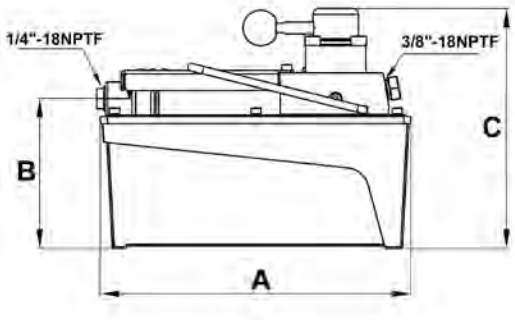
JHW5AS150L

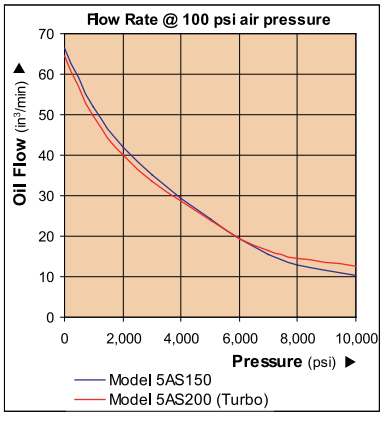
JHW5AS200

AIR PUMP SPECIFICATIONS

Used with Cylinder	Usable Oil Capacity (in^3)	Product Code	Pressure Rating (psi)	Oil Output Flow Rate (in^3/min) No Load	Oil Output Flow Rate (in^3/min) Load	Input Air Pressure Range (psi)	Dimensions (in) A	B	C	D	E
Single Acting	36.6	JHW5AS60	10,000	61	9	100-200	16.54	9.84	7.01	6.18	5.59
	91.5	JHW5AS150		66	11		10.35	5.00	7.28	5.16	5.35
	122.1	JHW5AS200		65	12		11.57	6.02	7.91	6.18	5.98
	231.9	JHW5AS380		65	11		12.64	5.08	7.36	5.24	7.36
	91.5	JHW5AS150L		61	10		10.98	6.30	8.03	5.12	5.35
	231.9	JHW5AS380L		61	10		12.64	6.42	8.15	5.20	7.36
Double Acting	91.5	JHW5AD150M	10,000	66	11	100-200	10.35	5.00	7.99	5.35	5.35

JHW5AD150M





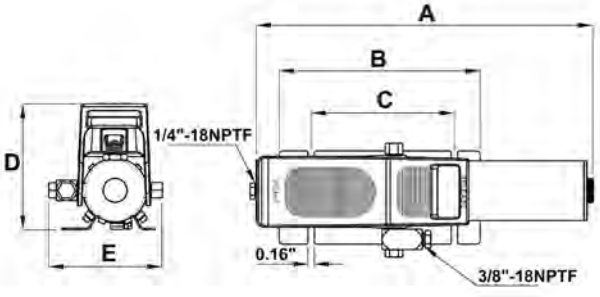
WARNING

JHW5AS60

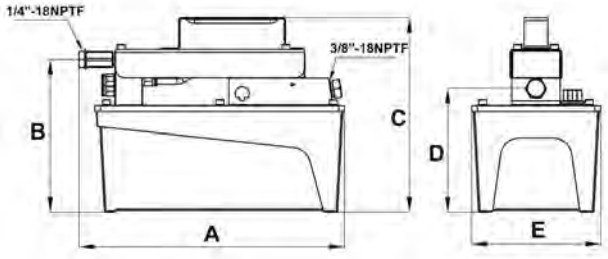
JHW5AS150

JHW5AS380L

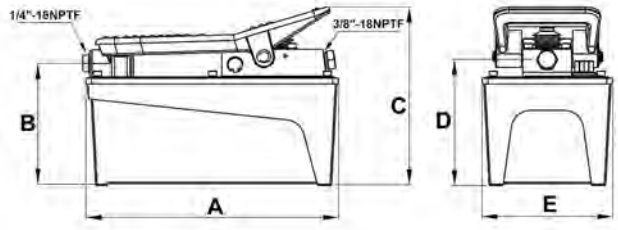
JHW5AS60



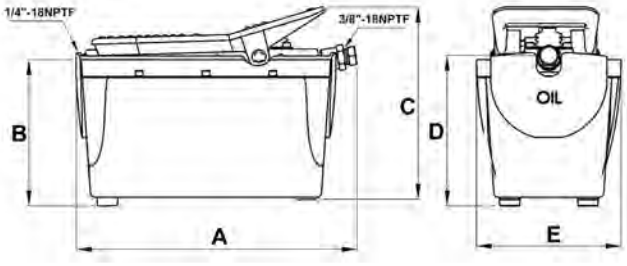
JHW5AS150L & JHW5AS380L



JHW5AS150 & JHW5AS380

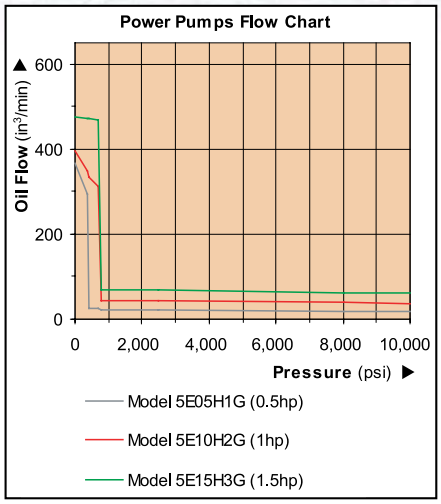


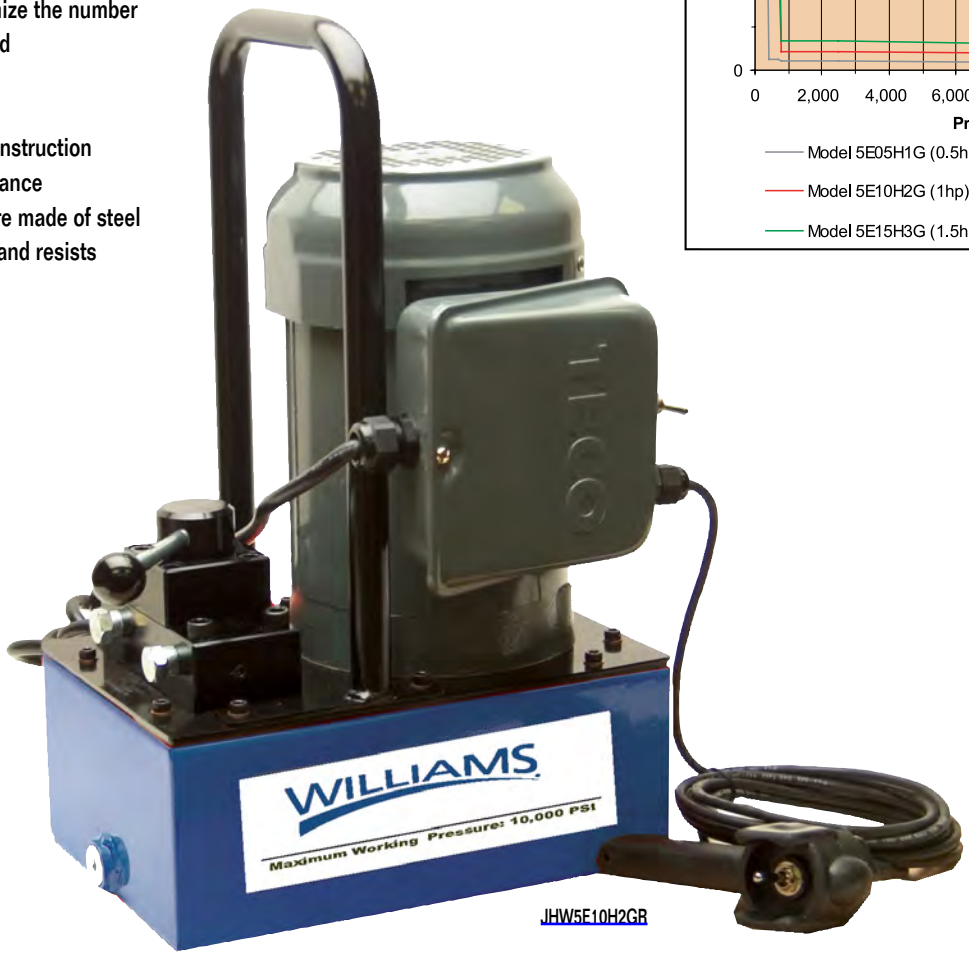
JHW5AS200



ELECTRIC PUMPS

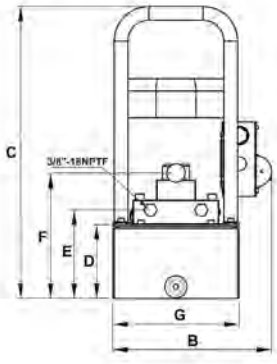
- Quiet operation meets OSHA regulations (80dBA)
- 2 speed operation allows for faster cylinder advance
- Full load starting capacities
- Internal filter keeps contamination from damaging pump
- Rugged durable design meets the demands of industrial applications
- Precision components to minimize wear and improve overall dependability
- Designed to minimize the number of moving parts and maximize overall pump efficiency
- Ideal for on site construction as well as maintenance
- Metal reservoirs are made of steel or aluminum alloy and resists cracks and leaking

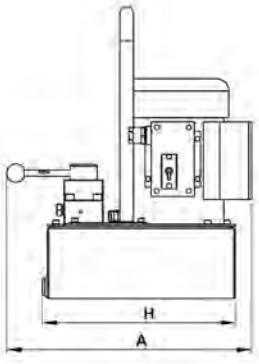




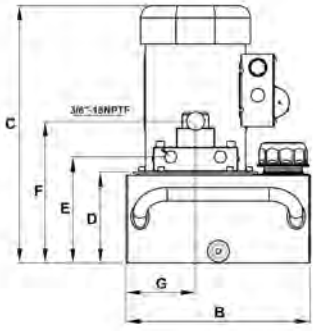
JHW5E10H2GR

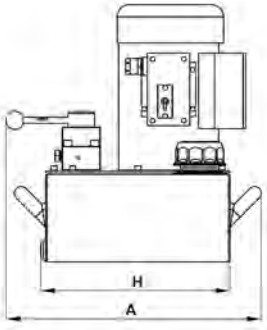
JHW5E05H1G





JHW5E10H2G & JHW5E15H3G





⚠WARNING

JHW5E05H1G

JHW5E10H2G

ELECTRIC PUMP DIMENSIONS

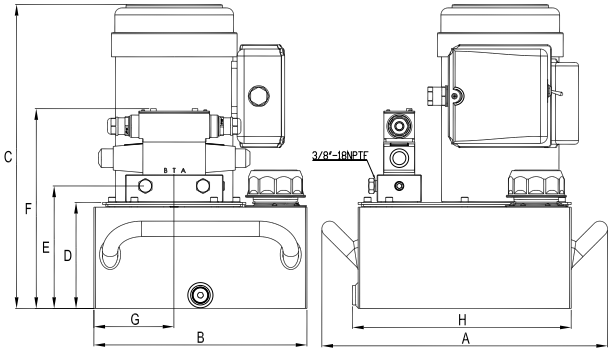
Product Code	Dimensions (in)							
	A	B	C	D	E	F	G	H
JHW5E05H1G	15.43	10.28	19.09	4.72	5.67	7.99	8.07	12.36
JHW5E10H2G	16.65	12.01	17.83	5.94	6.89	9.21	4.53	12.36
JHW5E15H3G	16.65	12.01	19.72	7.24	8.19	10.51	4.53	12.36

ELECTRIC PUMP SPECIFICATIONS

Motor Size	Usable Oil Capacity	Product Code	Product Code with Remote Control Pendant Switch	Max. Output Pressure	Oil Output Flow Rate		Valve Type	Valve Function	Current Draw	Motor Voltage	Sound Level
					1st Stage	2nd Stage					
(hp)	(gal)			(psi)	(in^3)				(amps)	(volts)	(dBA)
0.5	1.0	JHW5E05H1G	JHW5E05H1GR	10,000	293	18	4-way, 3-pos.	Advance Hold Return	8	115	80
1.0	2.0	JHW5E10H2G	JHW5E10H2GR		311	37			15		
1.5	3.0	JHW5E15H3G	JHW5E15H3GR		470	61			17		

ELECTRIC PUMPS WITH SOLENOID VALVE

- Quiet operation meets OSHA regulations (80dBA)
- Ideal for applications where a remote control is required
- 2 speed operations allows for faster cylinder advance
- Full load starting capabilities
- Internal filter keeps contamination from damaging pump
- 10 foot hand held remote controls the solenoid valve
- Metal reservoirs are made of steel or aluminum alloy and resists cracks and leaking



ELECTRIC PUMP WITH SOLENOID VALVE SPECIFICATIONS

Used with Cylinder	Motor Size (hp)	Usable Oil Capacity (gal)	Product Code	Pressure Rating 1st Stage (psi)	Pressure Rating 2nd Stage (psi)	Oil Output Flow Rate 1st Stage (in³/min)	Oil Output Flow Rate 2nd Stage (in³/min)	Valve Type	Valve Function	Current Draw (amps)	Motor Voltage (volts)	Weight (lbs)
Single Acting	0.5	1	JHW5ES05H1G	350	10,000	293	18	3-way, 3-position	Advance/ Hold/ Return	9	115	61.5
		2	JHW5ES05H2G									65.3
	1	2	JHW5ES10H2G	700		311	37			12		72.6
	1.5	3	JHW5ES15H3G			470	61			17		90.4
		5	JHW5ES15H5G									98
Double Acting	0.5	1	JHW5ES05H1GR	350		293	18	4-way, 3-position		9		61.5
		2	JHW5ES05H2GR									65.3
	1	2	JHW5ES10H2GR	700		311	37			12		72.6
	1.5	3	JHW5ES15H3GR			470	61			17		72.6
		5	JHW5ES15H5GR									98

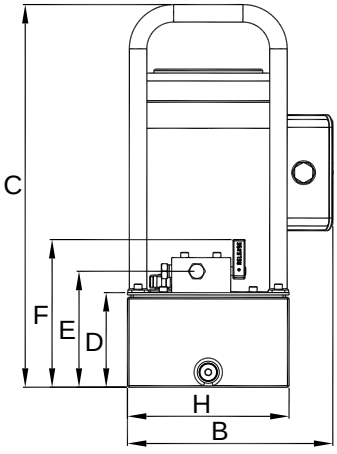
ELECTRIC PUMP WITH SOLENOID VALVE DIMENSIONS

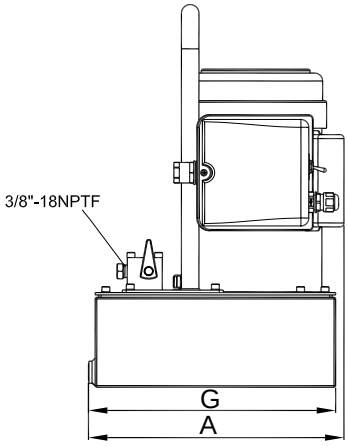
Product Code	Dimensions (in)							
	A	B	C	D	E	F	G	H
JHW5ES05H1G	12.74	10.26	19.10	4.72	5.65	10.00	8.07	12.32
JHW5ES05H2G	12.74	10.26	19.10	4.72	5.65	10.00	8.07	12.32
JHW5ES10H2G	17.88	12.01	17.88	5.98	6.90	11.26	4.51	12.32
JHW5ES15H3G	17.88	12.01	17.88	5.98	6.90	11.26	4.51	12.32
JHW5ES15H5G	16.10	12.01	17.13	5.98	6.90	11.26	4.51	12.32
JHW5ES05H1GR	16.10	12.01	17.13	5.98	6.90	11.26	4.51	12.32
JHW5ES05H2GR	16.10	12.01	19.78	7.28	8.20	12.56	4.51	12.32
JHW5ES10H2GR	16.10	12.01	19.78	7.28	8.20	12.56	4.51	12.32
JHW5ES15H3GR	16.10	12.01	24.78	12.28	13.20	17.56	4.51	12.32
JHW5ES15H5GR	16.10	12.01	24.78	12.28	13.20	17.56	4.51	12.32

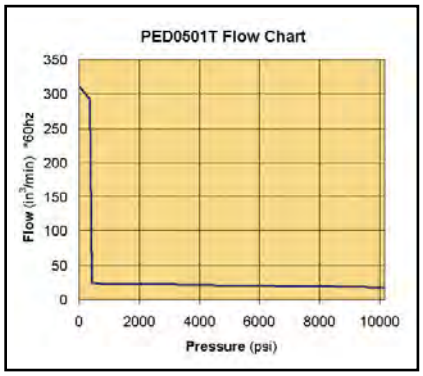
⚠WARNING

ELECTRIC PUMP WITH AUTO RETURN VALVE

- Quiet operation meets OSHA regulations (80dBA)
- Best suited for punching, crimping and cutting applications
- 2 speed operation allows for faster cylinder advance
- Full load starting capabilities
- Internal filter keeps contamination from damaging pump
- Rugged durable design meets the demands of industrial applications
- 10 ft. remote pendant switch to control motor on/off
- Metal reservoirs are made of steel or aluminum alloy and resists cracks and leaking







ELECTRIC PUMP WITH AUTO RETURN VALVE SPECIFICATIONS

Motor Size	Usable Oil Capacity	Product Code	Pressure Rating		Oil Output Flow Rate		Valve Type	Valve Function	Current Draw	Motor Voltage	Sound Level	Weight
			1st Stage	2nd Stage	1st Stage	2nd Stage						
(hp)	(gal)		(psi)		(in^3/min)				(amps)	(volts)	(dBA)	(lbs)
0.5	1.0	JHW5EA05H1G	350	10,000	233	18	2-way, 2-position	*Advance/ Return	9	115	80	66.2

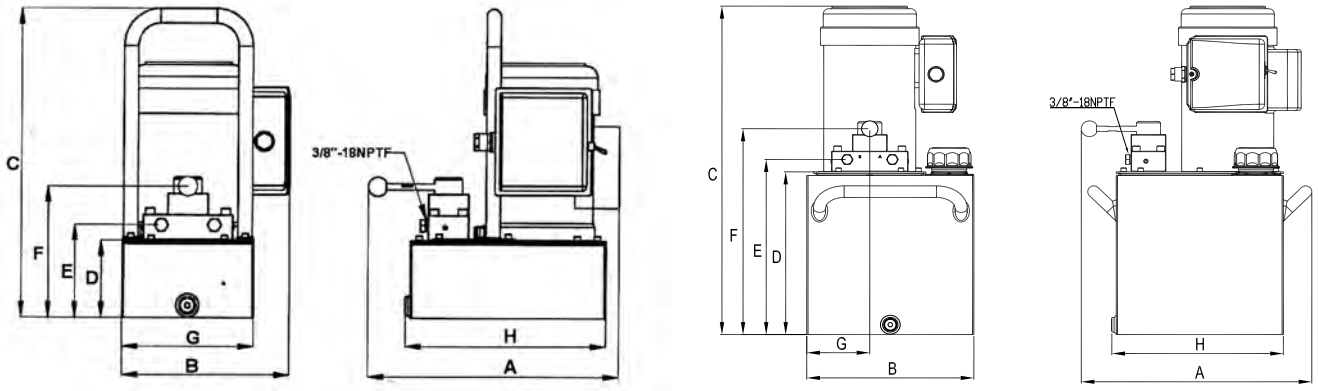
*** Holds pressure in advance position when motor is off.**

ELECTRIC PUMP WITH AUTO RETURN VALVE DIMENSIONS

Product Code	Dimensions (in)						
	A	B	C	D	E	F	G
JHW5EA05H1G	12.76	10.28	19.09	4.72	5.79	7.36	12.36

ELECTRIC PUMPS WITH PENDANT SWITCH

- Quiet operation meets OSHA regulations (80dBA)
- 2 speed operation allows for faster cylinder advance
- Full load starting capacities
- Internal filter keeps contamination from damaging pump
- 10 foot hand held remote control allows user to control cylinder in up or down position
- Metal reservoirs are made of steel or aluminum alloy and resists cracks and leaking



ELECTRIC PUMP WITH SOLENOID VALVE SPECIFICATIONS

Used with Cylinder	Motor Size (hp)	Usable Oil Capacity (gal)	Product Code	Pressure Rating 1st Stage (psi)	Pressure Rating 2nd Stage (psi)	Oil Output Flow Rate 1st Stage (in³/min)	Oil Output Flow Rate 2nd Stage (in³/min)	Valve Type	Valve Function	Current Draw (amps)	Motor Voltage (volts)	Weight (lbs)
Single Acting	0.5	1.0	JHW5E05H1GR	350	10,000	293	18	3-way, 3-position	Advance/ Hold/ Return	9	115	59.5
	1.0	2.0	JHW5E10H2GR	700		397	37			12		70.5
	1.5	3.0	JHW5E15H3GR			476	61			17		88.5

ELECTRIC PUMP WITH SOLENOID VALVE DIMENSIONS

Product Code	Dimensions (in)							
	A	B	C	D	E	F	G	H
JHW5E05H1GR	14.92	10.28	19.10	4.72	5.67	7.99	8.07	12.36
JHW5E10H2GR	16.65	12.01	17.83	5.94	6.89	9.21	4.53	12.36
JHW5E15H3GR	16.65	12.01	19.72	7.24	8.19	10.51	4.53	12.36

⚠WARNING

JHW5G102H5G

GAS ENGINE PUMP

- Gas pump will provide 10,000 psi hydraulic force at remote locations
- Industrial grade 5.5 hp Honda gas engine
- Manual control valve for use with single or double acting cylinders or tools
- Two speed pump designed for rapid cylinder advance
- Gas pump features a sturdy protective roll cage for use in the toughest environments
- Metal reservoirs are made of steel or aluminum alloy and resists cracks and leaking

JHW5D73H10G

DIESEL ENGINE PUMP

- Diesel engine pumps will provide 10,000 psi at remote locations
- Industrial grade 5.5 hp Honda gas engine
- Locking solenoid control valve for use with single or double acting cylinders or tools
- Two speed pump designed for rapid cylinder advance
- Ideal for application when diesel fuel in remote environments is required
- Comes standard with electric start
- Metal reservoirs are made of steel or aluminum alloy and resists cracks and leaking

ENGINE PUMP SPECIFICATIONS

Motor Size	Usable Oil Capacity	Product Code	Pressure Rating (psi)		Oil Output Flow Rate (in^3)		Valve Type	Valve Function	Rotation Speed	Sound Level
(hp)	(gal)		1st Stage	2nd Stage	1st Stage	2nd Stage			(rpm)	(dBA)
10.2	10.0	JHW5G102H5G (Gas)	700	10,000	600	200	4-way 3-position	Advance/Hold/Return	3600	93
7.3	10.0	JHW5D73H10G (Diesel)	700	10,000	600	200	4-way 3-position	Advance/Hold/Return	3600	93

AIR & HAND PUMPS AND SINGLE-ACTING CYLINDER MATCHING CHART

Capacity (Tons) ▶ Stroke (Inches) ▼	5	10	15	25	30	55	75	100
<1.00								
1.00								
2.00								
3.00								
4.00								
5.00								
6.00								
7.00								
8.00								
9.00								
10.00								
12.00								
13.00								
14.00								

JHW5AS60

JHW5AS150

JHW5AS380

Note: Selection based on oil capacity requirements of cylinders.

Not Recommended

HAND PUMP / E-PUMP AND SINGLE-ACTING CYLINDER MATCHING CHART

Capacity (Tons) ▶ Stroke (Inches) ▼	5	10	15	25	30	55	75	100
<1.00								
1.00								
2.00								
3.00								
4.00								
5.00								
6.00								
7.00								
8.00								
9.00								
10.00								
12.00								
13.00								
14.00								

JHW5HS2S35

JHW5HS2S100

JHW5HS2S200

JHW5E10H2G

Note: Selection based on oil capacity requirements of cylinders.

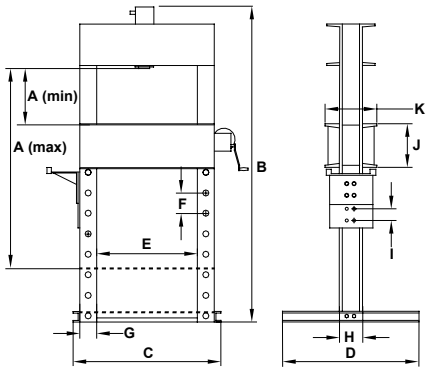
⚠WARNING

55/100 TON SHOP PRESS

- Heavy steel welded construction
- Multi-position bed for work height adjustment
- Ideal for the removal or installation of gears, universal joints, pulleys, wrist pins, and other press jobs
- Excellent for bending, bonding or straightening applications
- Pump, cylinder, hose and fittings are included

Made in U.S.A.

All press frames are made in the USA and meet ISO 9001/2008 and CDI certification.



55/100 TON SHOP PRESS SPECIFICATIONS

Product Code	Capacity (Tons)	Pump Model	Pump Type	Stroke Length	Bed Position	Product Size (H X L X W)	Working Space (A Min. / A Max.) (in)	Weight (lbs)
JHW9A55T06	55	JHW5AS150	AIR	6	9	79" X 56" X 30"	14" ~ 55-½"	760
JHW9E55T06		JHW5E05H1GR	ELECTRIC	6				
JHW9H55T06		JHW5HS25200	MANUAL	6				
JHW9A55T13		JHW5AS380	AIR	13				
JHW9E55T13		JHW5E05H1GR	ELECTRIC	13				
JHW9E100T10	100	JHW5E10H2GR	ELECTRIC	10	8	89" X 63" X 30"	11-¼" ~ 51"	1550

55/100 TON SHOP PRESS DIMENSIONS

Product Code	Dimensions (in)											
	A (Min.)	A (Max.)	B	C	D	E	F	G	H	I	J	K
JHW9A55T06	14	55.5	79	56	30	35.4	6	4	9	3	10	14.8
JHW9E55T06												
JHW9H55T06												
JHW9A55T13												
JHW9E55T13												
JHW9E100T10	11.3	51	89	63	30	35.5	8	N/A	10	N/A	12	16

SHOP PRESS ACCESSORIES

55 Ton Press Accessory Kit S/A

Product Code
JHW55TKSA

Contents Include:
(1) Ram forcing cap
(1) Threaded adapter
(1) 1-1/2" push adapter
(1) 1-1/4" push adapter
(1) V push adapter
(1pair) 55T Arbor plates

55 Ton & 100 Ton Shop Press Guard

Product Code
JHW55100SPG

V-Blocks 100 Ton - Pair

Product Code
JHW100TAP

V-Blocks 55 Ton - Pair

Product Code
JHW55TAP

MINI JACKS

- Low profile mini jack
- Compact and lightweight
- Convenient for storage
- Interchangeable saddle on model JHW3M05T75 and JHW3M05T150

JHW3M05T75

JHW3M05T150

JHW3M10T160

MINI JACK DIMENSIONS

Capacity	Product Code	Minimum Height	Maximum Height	Hydraulic Lifting	Base Size (L x W)	Weight
(tons)		(in)	(in)	(in)	(in)	(lbs)
5	JHW3M05T75	2.37	3.13	0.76	4.13 x 4.00	4.6
	JHW3M05T150	3.37	4.88	1.51	4.13 x 4.00	5.3
10	JHW3M10T160	4.75	6.25	1.63	4.88 x 4.38	12.5
20	JHW3M20T160	5.13	6.75	1.63	5.38 x 4.75	16.7

⚠WARNING

JHW4T06T

JHW4T10T

TOE JACKS

- Heat treated and chrome plated medium-carbon steel cylinder
- Chrome plated ram promotes longer seal life and optimum performance
- U.S. Patented by-pass device protects hydraulic system from over traveling damage

TOE JACK DIMENSIONS

Capacity	Product Code	Toe Saddle		Head Saddle		Hydraulic Lifting
		Min. Height	Max. Height	Min. Height	Max. Height	
(tons)		(in)	(in)	(in)	(in)	(in)
6	JHW4T06T	0.88	6.00	10.50	15.63	5.13
10	JHW4T10T	1.13	6.25	11.00	16.13	

JHW3S20TV

SIDE PUMP BOTTLE JACK

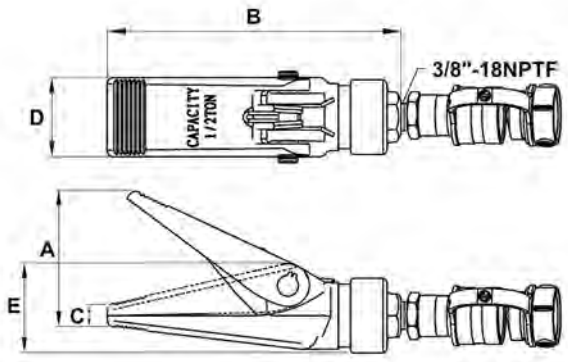
- Hydraulic system is protected from internal damage by a patented by-pass mechanism
- Machined and polished cylinders with die-cut threads provide non-abrasive leak-free, durable performance
- Fabricated from hard-cast steel with heat-treated critical stress areas
- Serrated heat-treated saddle provides generous lifting area and secure grip
- Heat-treated extension screw allows low pick-up height adjustment and maximum lift height
- U.S. patented built-in by-pass device protects hydraulic system from overpumping damage
- Unique cross-type forged release valve assures positive control
- A wide, rugged base provides stability and strength
- Critical stress points are reinforced in all models for added durability and dependability
- Economically priced for maximum value

SIDE PUMP BOTTLE JACK DIMENSIONS

Capacity	Product Code	Min. Height	Max. Height	Extension Screw	Hydraulic Lifting	Base Size (L x W)
(tons)		(in)	(in)	(in)	(in)	(in)
12	JHW3T12TV	9.50	18.63	3.13	6.00	5.25 x 5.13
	JHW3S12TV	6.00	10.63	1.63	3.00	
20	JHW3T20TV	9.50	18.63	3.13	6.00	6.25 x 5.88
	JHW3S20TV	6.50	11.25	1.63	3.13	

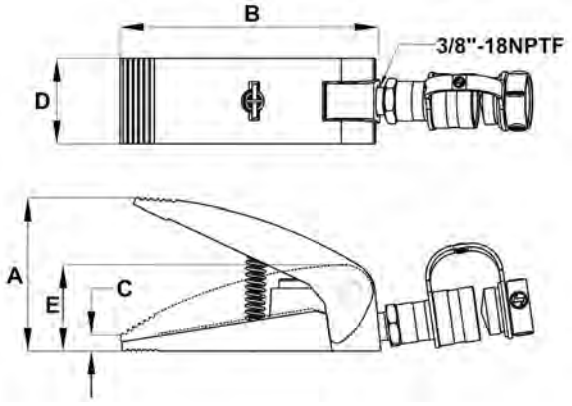
JHW6S.5T03

JHW6S.5T03



JHW6S01T03

JHW6S01T03



SPREADER DIMENSIONS

Cylinder Capacity	Product Code	Cylinder Effective Area	Oil Capacity	Dimensions (in)				
(tons)		(in^2)	(in^3)	A	B	C	D	E
0.5	JHW6S.5T03	1.22	0.58	3.54	7.57	0.51	2.05	2.36
1	JHW6S01T03	1.09	0.86	3.90	6.57	0.47	2.17	2.20

⚠WARNING

JHW4M10T

MAINTENANCE KITS

- Sets are portable for easy use in the plant or on the job site
- Custom fitted, rugged blow molded storage case
- 10 ton set has wheels for easy movement
- Designed for applications of pushing, spreading, pressing and more
- Pumps are rated from 8,000 to 10,000 psi

MAINTENANCE KITS

Contents of Kit	Product Code	
	JHW4M04T	JHW4M10T
Hand Pump	X	X
Ram	X	X
Hose Assembly	X	X
Hose Coupler	X	X
Ram Coupler	X	X
Case	X	X
Hydraulic Spreader	X	X
Combination Head (90°)	X	X
Rubber Head	X	X
Ram Toe	X	X
Plunger Toe	X	X
Flat Base	X	X
Serrated Saddle	X	X
Wedge Head	X	X
Male Connector	X	X
Extension Tubes Included	3"	4"
	6 ⅛"	10"
	8 ½"	18"
	16 ½"	27"
	19 ½"	

Capacity	Product Code	Ram		Number of Attachments
		Collapsed Height	Extended Height	
(tons)		(in^2)	(in^3)	
4	JHW4M04T	11.00	15.75	14
10	JHW4M10T	13.63	19.75	13

*When extension tubes and/or offset attachments are used, the capacity is reduced.

GAUGES, ADAPTERS, HOSES & HYDRAULIC OIL

JHW8G025W

JHW8G04W

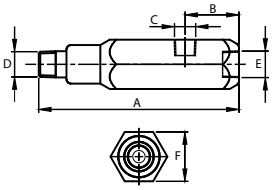
GAUGE SPECIFICATIONS

Gauge Type	Product Code	Face Dia.	Thread	Pressure Range		Graduation			
						Major	Minor	Major	Minor
		(in)	(in)	(psi)	(bar)	(psi)		(bar)	
Wet	JHW8G025W	2.50	¼"-18NPTF	0-10,000	0-700	1,000	100	100	10
	JHW8G04W	4.00				2,000	200		

JHW8FG38MF

GAUGE ADAPTER SPECIFICATIONS

Product Code	Dimensions (in)					
	A	B	C	D	E	F
JHW8FG38MF	5.12	1.38	¼"-18NPTF	⅜"-18NPTF	⅜"-18NPTF	1.25



JHW8FB25F38M

JHW8FR38M25F

ADAPTER SPECIFICATIONS

Description	Product Code	Male Thread	Female Thread	Dimensions (in)	
		C	D	A	B
Adapter	JHW8FR38M25F	¼"-18NPTF	⅜"-18NPTF	1.39	0.91
Bushing	JHW8FB25F38M	⅜"-18NPTF	¼"-18NPTF	0.87	0.67

JHW8H3838D06

JHW8H2525D06

JHW8H3825D06

HOSE SPECIFICATIONS

Hose I.D.	Product Code	Hose End Fittings	Operating Pressure	Hose Length	Weight
(in)			(psi)	(ft)	(lbs)
¼"	JHW8H2525D06	¼"-18NPTF	10,000	6	2.5
	JHW8H3825D06	⅜"-18NPTF		6	3.0
	JHW8H3825D10			10	5.0
	JHW8H3825D20			20	10.5
⅜"	JHW8H2538D06	¼"-18NPTF		6	3.2
	JHW8H3838D06	⅜"-18NPTF		6	3.5
	JHW8H3838D10			10	6.5
	JHW8H3838D20			20	13.5

JHW8H1G

HYDRAULIC OIL

Volume	Product Code	Viscosity Index	Viscosity @ 100°F	Viscosity @ 210°F	ASTM Grade	Flash Point	Pour Point	API Gravity
(gal)		(min)	(S.U.S.)	(S.U.S.)		(°F)	(°F)	
1	JHW8H1G	168	215	47	215	410	-54	31.4

⚠WARNING

COUPLINGS/MALE CONNECTORS

JHW8FN38M

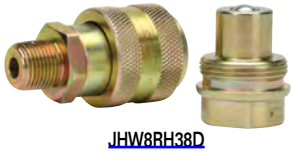
JHW8FC38F

JHW8FN25M38M

COUPLING/MALE CONNECTOR DIMENSIONS

Product Code	Type	Dimensions			
		A (in)	B (in)	C	D
JHW8FC25F38F	Couplings	1.18	1.02	Female ¼"-18NPTF	Female ⅜"-18NPTF
JHW8FC38F	Couplings	1.18	1.02	Female ⅜"-18NPTF	Female ⅜"-18NPTF
JHW8FN25M	Male Connectors	1.50	0.67	Male ¼"-18NPTF	Male ¼"-18NPTF
JHW8FN38M	Male Connectors	1.50	0.75	Male ⅜"-18NPTF	Male ⅜"-18NPTF
JHW8FN25M38M	Male Connectors	1.45	0.75	Male ¼"-18NPTF	Male ⅜"-18NPTF

COUPLERS



JHW8RH38D
(JHW8RH38DM & JHW8RH38DF)

JHW8R38D
(JHW8R38DM & JHW8R38DF)

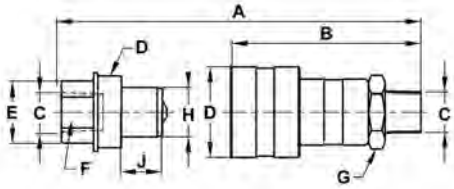
JHWZCS1418
(JHWZCF1418 & JHWZCM1418)

COUPLER DIMENSIONS

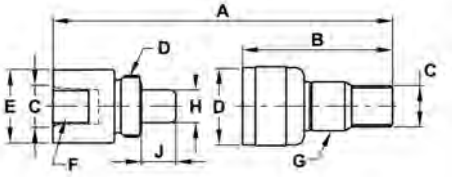
Coupler Type	Product code			Dimensions (in)				
	Complete Set	Male Half	Female Half	A*	B	C	D	E
High-Flow Coupler	JHW8RH38D	JHW8RH38DM	JHW8RH38DF	3.35	2.84	⅜"-18NPTF	1 3⁄16"-16	1.10
Regular-Flow Coupler	JHW8R38D	JHW8R38DM	JHW8R38DF	3.15	2.2	⅜"-18NPTF	15⁄16"-20	1.04
Zinc Regular-Flow Coupler	JHWZCS1418	JHWZCM1418	JHWZCF1418	2.42	1.67	¼"-18NPTF	0.95	0.83

*** Value A is total length when male and female valves are connected.**

JHW8RH38D



JHW8R38D



CYLINDER ACCESSORIES

JHWCP25T

JHWCP15T

JHWCP05T

JHWCPB05T / JHWCPB10T

CYLINDER DIMENSIONS

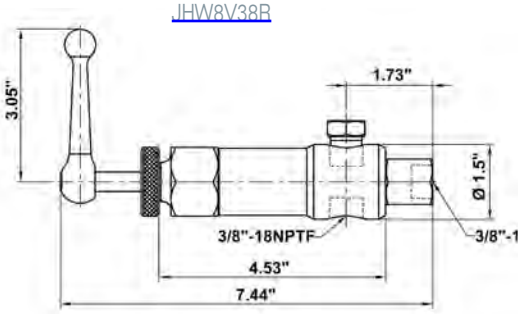
Product Code	Clevis Type	For use with Cylinder Capacity (Tons)
JHWCP05T	Plunger	5
JHWCP15T	Plunger	10
JHWCP25T	Plunger	25
JHWCPB05T	Plunger & Base	JHW6CP05T05
JHWCPB10T	Plunger & Base	JHW6CP10T06

FLOW CONTROL VALVES

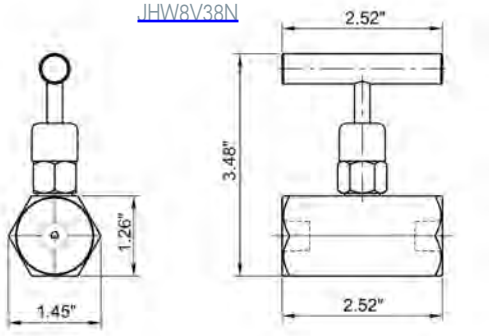
JHW8V38R

JHW8V38N

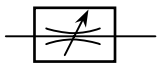
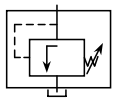
JHW8V38R



JHW8V38N



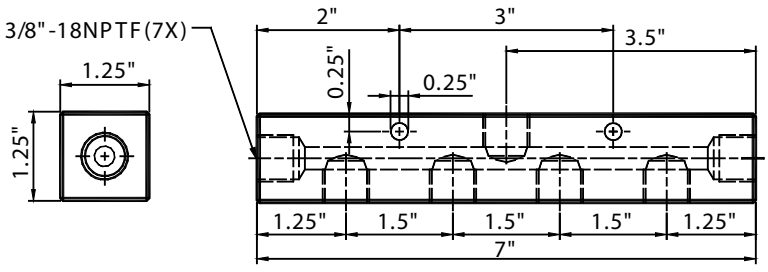
VALVE SPECIFICATIONS

Valve Type	Product Code	Ports	Application	Hydraulic Symbol
Needle Valve	JHW8V38N	3/8"-18NPTF	Controls cylinder speed and treats as temporary shut-off valve for load holding.	
Pressure Relief Valve	JHW8V38R	3/8"-18NPTF	Controls pressure developed by the pump in hydraulic loop. By-pass occurred when pre-set pressured is reached. Turns clockwise to increase pressure, counter clockwise to decrease.	

MANIFOLDS

JHW8M7L7P

Manifold Type	Product Code	Number of Parts	Port Size	Mounting Hole
7" Long Manifold	JHW8M7L7P	7	3/8" - 18NPTF	1/4" - 20UNC
14" Long Manifold	JHW8M14L7P	7		



WARNING

TOOLS FOR THE TRADES

TRADE KITS 426
HANDSAWS 428
BOWSAWS 436
HACKSAWS 438
PORTABANDS 441
HOLESAWS 442
RECIPROCATING SAW BLADES 452
FILES 463
MEASURING TOOLS 486
EYEBOLTS 494
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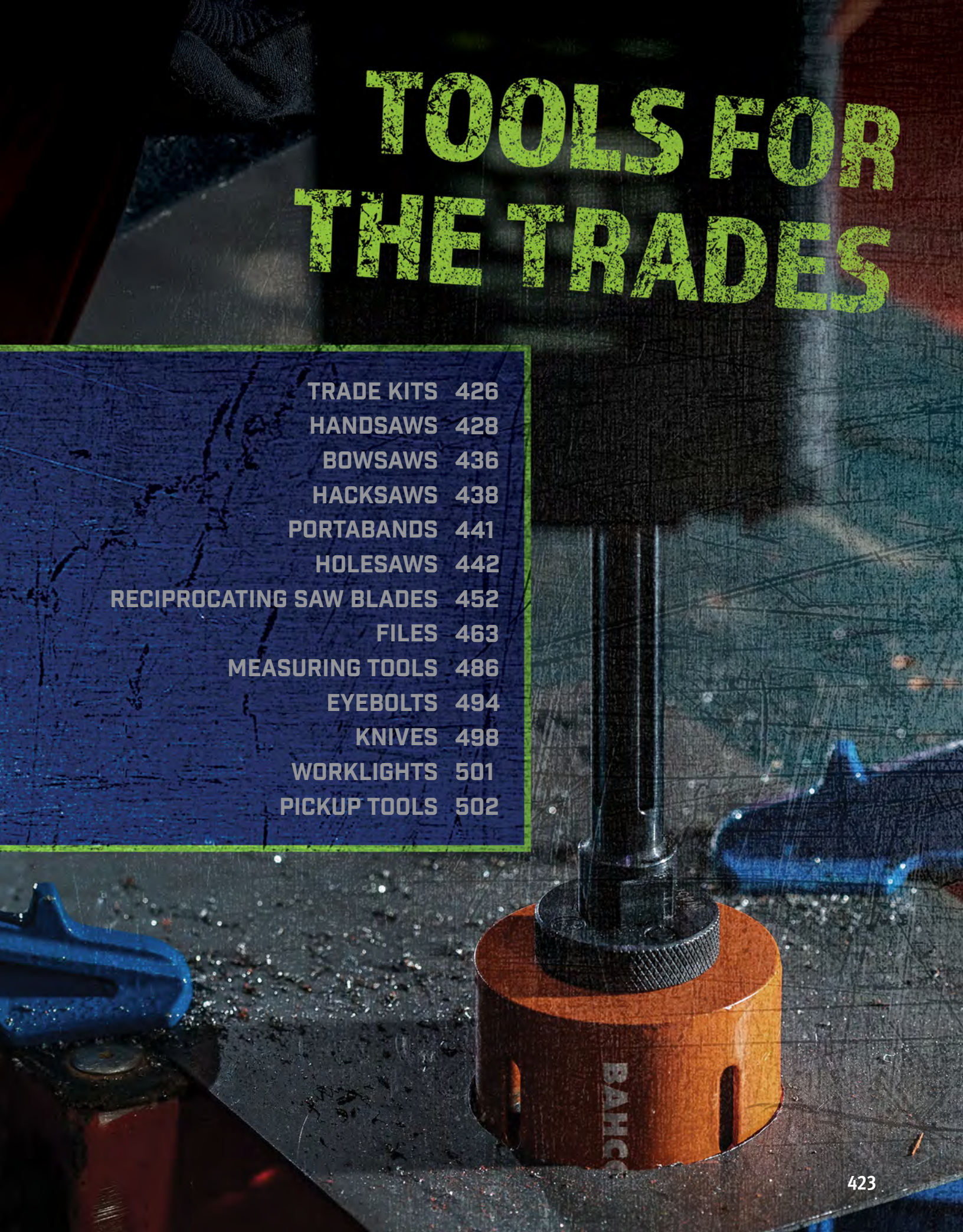


WILLIAMS®

BI-METAL SANDFLEX HOLESAWS

Made with 8% cobalt to ensure a longer holesaw life

Range 9/16" to 6" has a **6° positive tooth angle** for aggressive cutting

shatterproof bi-metal body for more safety

Simple holesaw selection thanks to the printed material information

CARBIDE-TIPPED HOLESAWS

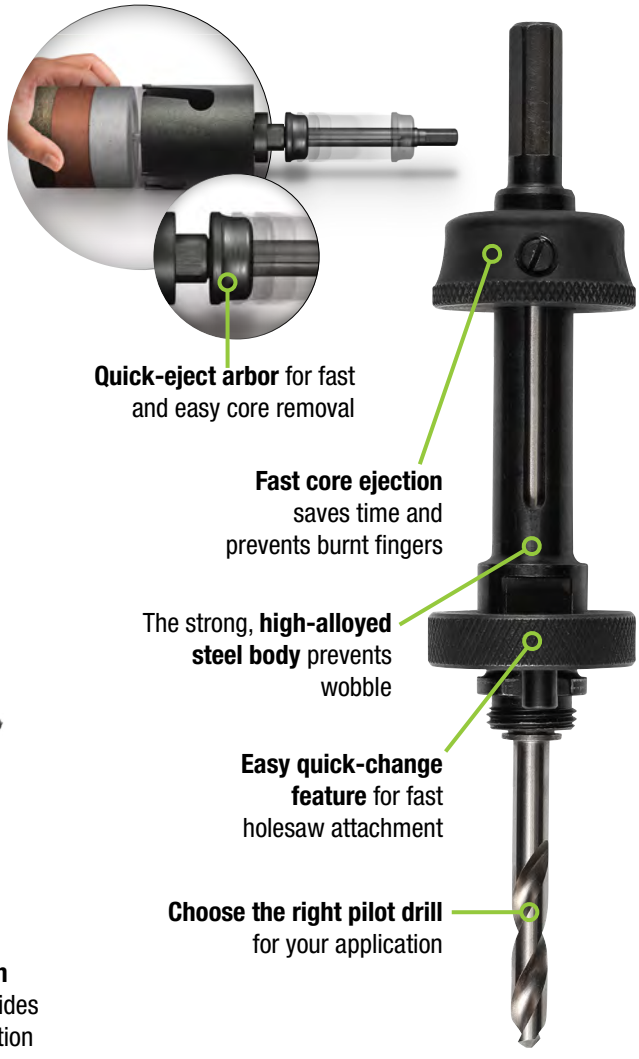
Ideal for making high-precision holes in hard material such as ceramic tiles, stone, fiberglass, laminate, hardwood and high demanding steel materials

Easily cuts through abrasive material, such as concrete and brick

Precision-ground carbide tipped teeth at a 6° positive tooth angle

Simple holesaw selection thanks to the printed material information

QUICK-EJECT ARBOR



Quick-eject arbor for fast and easy core removal

Fast core ejection saves time and prevents burnt fingers

The strong, **high-alloyed steel body** prevents wobble

Easy quick-change feature for fast holesaw attachment

Choose the right pilot drill for your application

MULTI-CONSTRUCTION SUPERIOR™ HOLESAWS

Permanent laser marking of the size in millimeters and inches

Wide gullets for fast and effective chip removal

Special coating minimizes heat and friction

Cutting depth of 2 13/16"

Printed material information makes holesaw selection simple

Precision tooth geometry provides instant penetration

TOOLS FOR THE TRADES

FAST, CLEAN, ACCURATE CUTS.

RECIPROCATING SAW BLADES

BLADES FOR METAL

Virtually unbreakable
Sandflex® bi-metal blades

Simple saw blade selection thanks to the printed material information

Sharp long-life teeth
(HSS 8% Cobalt)

Easier penetration thanks to precision-ground tooth geometry

BLADES FOR WOOD AND METAL

Virtually unbreakable
Sandflex® bi-metal blades

Simple saw blade selection thanks to the printed material information

Specially made for **aggressive straight cuts**

Long-life teeth
(HSS 8% Cobalt)

BLADES FOR WOOD AND PLASTIC

Simple saw blade selection thanks to the printed material information

Strong high-carbon steel blades

Low-friction coating minimizes heat generation

Bevel-ground wood-cutting toothing allows faster cross-cutting and rip-cutting

Long-lasting **induction-hardened teeth**

SABRE SAW BLADES FOR SPECIAL APPLICATIONS

Simple saw blade selection thanks to the printed material information

Carbide tipped teeth are ideal for demanding applications

For fast and aggressive straight cuts

BAHCO® 42 PIECE ELECTRICIAN'S KIT

Product Code	Description
4750FB3-12TS4	42 Piece Large Electrician's Kit

Contents Include:

12" Electrician's Bag with Hard Bottom
Flat File Ergo™ 8" Second 36 TPI
Round File Ergo™ 8" Second 36 TPI
10mm Combination Wrench
13mm Combination Wrench
Long Ball End Hexagon Key Set, Metric
Diagonal Cutting Plier 6 1/4"
Wire stripping pliers - copper wire and cable
Cable cutting and stripping pliers
Nose Plier 6 1/4"
Side Cutting Combo Plier 7"
Junior Hacksaw Plastic Handle 6"
Professional Light Hacksaw Frame
Center Punch
Flat Chisel
Chisel
Spirit Level
Claw Hammer
Warrington Hammer
Precision Screwdrivers; slotted
Black Adjustable Wrench 6"
Black Adjustable Wrench 8"
Quick Adjust Water Pump Plier
Insulated Slotted Screwdriver (6)
Insulated Pozidriv Screwdriver (2)
Multipurpose Knife
Screwdriver Robertson # 1
Screwdriver Robertson # 2
Screwdriver Robertson # 3

Features

- This Electrician's kit provides the tools necessary for many electrical applications
- Kit contains an assortment of pliers, screwdrivers, adjustable wrench, combination wrenches, files and knife
- Packed in an Electrician's bag with a hard bottom and double stitching reinforcement that is 100% waterproof and easy to clean

4750FB3-12TS4

BAHCO® 13 PIECE BASIC MAINTENANCE KIT

Product Code	Description
4750-UP-1TS5	13 Piece Basic Maintenance Kit

Contents Include:

Universal Pouch
Diagonal Cutting Plier 6 1/4"
Side Cutting Combo Plier 7"
Nose Plier Grips 6 1/4"
Slotted Screwdriver
Phillips PH1 Screwdriver
Black Adjustable Wrench 10"
10mm Combination Wrench
11mm Combination Wrench
13mm Combination Wrench
Screwdriver Robertson # 1
Screwdriver Robertson # 2
Screwdriver Robertson # 3

Features

- This basic maintenance kit provides the tools necessary for many general service and maintenance applications
- Kit contains an assortment of pliers, screwdrivers, adjustable wrench and combination wrenches
- Packed in a universal pouch with leather slots and two deep multi purpose open pockets

4750-UP-1TS5

⚠WARNING

3100TBTS4

BAHCO® 30 PIECE PLUMBERS KIT

Product Code	Description
3100TBTS4	30 Piece Plumbers Kit

Contents Include:

17" Open Tote Caddy Tool Bag Organizer
Screwdriver Slotted Ergo™ 8 3/4 x 4 x 5/32"
Screwdriver Ergo™ Pozidriv® #2
Screwdriver Slotted Ergo™ 9 3/4 x 5 x 1/4"
Screwdriver Phillips® Ergo™ #1
Hex Keys
Stubby Awl
Hacksaw Non-Slip Handles 12"
Junior Hacksaw Plastic Handle 6"
Homeowner's File Ergo™™™ 8" 41 & 36 TPI
Spirit Level
Claw Hammer
Universal Pipe Wrench 11"
Universal Pipe Wrench 14 1/2"
Adjustable Joint Pliers 10"
Tube Cutter
Tube Cutter
Wheel Reemer
Multipurpose Knife
Wrecking Knife
Black Adjustable Wrench 8"
Black Adjustable Wrench 6"
Cold Chisel
Pencil

Features

- This plumbers kit provides the tools necessary for many plumbing applications
- This set is geared for industrial plumbers. It includes an assortment of hand tools such as screwdrivers, wrenches, hacksaws and tube cutters
- Packed in a open tote caddy tool bag organizer, ideal for storing and carrying tools, parts and supplies

4750PTB65TS4

BAHCO® 52 PIECE GENERAL PURPOSE KIT

Product Code	Description
4750PTB65TS4	52 Piece General Purpose Kit

Contents Include:

Plastic Tool Box
Knife
Wrecking Knife
Torpedo Level
Ergo™ Claw Hammer
31 Piece Bit set in Plastic Case
Screwdriver Set 6 Pieces
Square
Sliding Bevel
Prize Cut 22" Handsaw, (Qty. 2)
Tape Measure
Pencil
Nail Punches
Snap-off Knife
Screwdriver Robertson # 1
Screwdriver Robertson # 2
Screwdriver Robertson # 3

Features

- This general purpose kit provides the tools necessary for many general service and repair applications
- Kit contains an assortment of screwdrivers, hammer, tape measure and knives
- Packed in a heavy duty plastic tool box that is perfect for organizing items

BAHCO® LAPLANDER FOLDING SAW AND MULTIPURPOSE KNIFE

General Purpose Folding Saw

Product Code	Blade Length (Inch)	Teeth Per Inch
396-LAP	9	7

Multipurpose Knife

Product Code	Overall Length (Inch)
2444-LAP	9

Saw and Knife Set

Product Code	Description
LAP-KNIFE	Folding saw & Multipurpose Knife

Features

- A general purpose folding saw for cutting both green and dry wood, plastic, bone etc.
- Specially designed for wild-life enthusiasts, hunting and campers.
- XT toothing, 7TPI. Blade specially coated for rust protection and low friction
- Two-component plastic handle for perfect grip, with leather strap.
- Safety lock, locked also when folded

396-LAP

LAP-KNIFE

2444-LAP

BAHCO® JAPANESE STYLE PULL SAWS

Cut on Pull Stroke

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)
PC-12-14-PS	12	14
PC-11-19-PS	11	19
PC-9-9/17-PS	9	9/17

Features

- Razor sharp teeth allows this pull saw to make clean cuts with little effort.
- Perfect for rip and cross-cut to flush-cutting moldings, treated lumber, door casings, PVC, ABS pipe, hard and soft woods, plywood, drywall and plastic pipe.
- This pull-to-cut saw allows undercutting with fast and accurate cuts.

PC-11-19-PS

PC-9-9/17-PS

BAHCO® PRIZECUT TOOLBOX HANDSAW

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)
300-14-F15/16-HP	14	15/16

Features

- The universal toothing is strong and hard wearing, suitable for both rip and cross cutting in all types of wood
- Hard Point for longer life, rust protection lacquered
- One-component solid handle
- Comes with reusable plastic patented tooth protector

300-14-F15/16-HP

BAHCO® PROFCUT TOOLBOX HANDSAW

Special-purpose Handsaw

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)
PC-15-TBX	15	11

Features

- Toolbox saw for fine cutting
- Fine GT toothing, 11 TPI
- Super sharp GT-toothing is specially developed for high cutting performance
- The 3-sided ground tooth form ensures excellent results in all types of wood
- Comfortable-two component handle
- Comes with reusable plastic patented tooth protector

PC-15-TBX

⚠WARNING

SUP-20-LAM

BAHCO® ERGO™ SUPERIOR LAMINATOR SAW

Ergo™ handle - Unique XT toothing - Low Friction Coating

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)	Type of cut
SUP-20-LAM	20	11/12	Fine

Features

- A handsaw for cutting laminate and wooden floors
- Bevel ground teeth on thick blade for high precision and straight cutting with exceptionally good stability
- Screwed, one piece two-component Ergo™ handle
- Handle placement provides even distribution of power along the tooth line
- Low-friction, rust-protective coating
- Comes with reusable plastic patented tooth protector

PC-22-GT7

BAHCO® PROFCUT GENERAL PURPOSE HANDSAWS

Comfortable two-component handle

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)
PC-19-GT7	19	7
PC-22-GT7	22	7
PC-22-FILE-U7	22	7 (Fileable)

Features

- Super sharp GT-toothing is specially developed for high cutting performance
- The 3-sided ground tooth form ensures excellent results in all types of wood
- Comfortable-two component handle
- Comes with reusable plastic patented tooth protector

NP-22-U7/8-HP

BAHCO® PRIZECUT UNIVERSAL SAW

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)
NP-16-U7/8-HP	16	7
NP-19-U7/8-HP	19	7
NP-22-U7/8-HP	22	7

Features

- The universal toothing is strong and hard wearing, suitable for both rip and cross cutting in all types of wood
- Hard Point for longer life, rust protection lacquered
- Two-component solid handle
- Comes with reusable plastic patented tooth protector

BAHCO® SUPERIOR HANDSAWS WITH XT TOOTHING

Ergo™ handle - Unique XT toothing - Low Friction Coating

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)	Type of cut
Fine Tooth Pattern for smooth, consistent cuts through most materials			
2600-16-XT11-HP	16	11	Fine
2600-22-XT-HP	22	9	Medium
Aggressive tooth pattern for faster cuts through thick material			
2700-22-XT7-HP	22	7	Aggressive
2700-24-XT7-HP	24	7	Aggressive

Features

- Hard point saw with substantially thicker blade which results in less power-consuming side vibrations
- Bevel ground teeth on thick blade for height precision and straight cutting with exceptionally good stability
- Screwed, one piece two-component Ergo™ handle
- Handle placement provides even distribution of power along the tooth line
- Comes with reusable plastic patented tooth protector

2600-16-XT11-HP

BAHCO® SUPERIOR MITER HANDSAW WITH XT TOOTHING

Ergo™ handle - Unique XT toothing - Low Friction Coating

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)	Type of cut
3090-20-XT11-HP	20	11	Fine

Features

- Bevel ground teeth on thick blade for high precision and straight cutting with exceptionally good stability
- Screwed, one piece two-component Ergo™ handle
- Handle placement provides even distribution of power along the tooth line
- Comes with reusable plastic patented tooth protector

3090-20-XT11-HP

BAHCO® PROFESSIONAL HANDSAWS WITH XT TOOTHING

Ergo™ handle - Unique XT toothing - Low Friction Coating

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)	Type of cut
2500-16-XT-HP	16	9	Medium
2500-19-XT-HP	19	9	Medium
2500-22-XT-HP	22	9	Medium

Features

- For medium thick materials, such as plywood, ordinary wood, fiber and chipboard or plastics
- Hard point saw with substantially thicker blade which results in less power-consuming side vibrations
- Screwed, one piece two-component Ergo™ handle
- Handle placement provides even distribution of power along the tooth line
- Comes with reusable plastic patented tooth protector

2500-16-XT-HP

BAHCO® PROFCUT TOOLBOX HANDSAW

Comfortable two-component handle

Product Code	Blade Length (Inches)	Teeth Per Inch (TPI)
PC-15-GNP	15	15

Features

- Toolbox saw for general purpose cutting
- Fine FT toothing, 15 TPI
- Saw blade for cutting plastics, laminates, wood and soft metals like aluminum Fleam toothing, hardpoint teeth for long lasting sharpness
- Comfortable-two component handle
- Comes with reusable plastic patented tooth protector

PC-15-GNP

⚠WARNING

3180-14-XT11-HP

BAHCO® SUPERIOR BACKSAW WITH XT TOOTHING

Ergo™ handle - Unique XT toothing - Low Friction Coating

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)	Type of cut
3180-14-XT11-HP	14	11	Fine

Features

- Specially adapted for cutting of small-diameter timber and miter guide sawing of all sizes of materials
- Bevel ground teeth on thick blade for high precision and straight cutting with exceptionally good stability
- Screwed, one piece two-component Ergo™ handle
- Handle placement provides even distribution of power along the tooth line
- Comes with reusable plastic patented tooth protector

PC-12-TEN

BAHCO® PROFCUT BACKSAW

For Straight and Miter Cuts

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)
PC-12-TEN	12	11

Features

- Specially adapted for cutting of small-diameter timber and miter guide sawing of all sizes of materials
- Fine UT toothing with 11 TPI
- The universal toothing is strong and hard wearing, suitable for both rip and cross cutting in all types of wood
- 3-sided ground tooth form ensures excellent results in all types of wood
- Comfortable-two component handle
- Comes with reusable plastic patented tooth protector

NP-12-TEN

BAHCO® PRIZECUT BACKSAW

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)
NP-12-TEN	12	13

Features

- Specially adapted for cutting of small-diameter timber and miter guide sawing, all sizes of materials
- The universal toothing is strong and hard wearing, suitable for both rip and cross cutting in all types of wood
- Hard Point for longer life, rust protection lacquered
- One-component solid handle
- Comes with reusable plastic patented tooth protector

PC-10-DTF

PC-10-DTR

BAHCO® PROFCUT DOVETAIL HANDSAWS

Fine Cut Detail Saws

Product Code	Style	Blade Length (Inch)	Teeth Per Inch (TPI)
PC-10-DTF	Reversible handle for left / right sawing	10	15/16
PC-10-DTR	Angled / flush cutting	10	13/14

Features

- Special-purpose saw for wood and plastic materials
- Fine universal toothing with hard point teeth and light steel back for rigidity
- Blade width is 2-3/8"
- Comes with reusable plastic patented tooth protector

BAHCO® SUPERIOR VENEER SAW WITH XT TOOTHING

Ergo™ handle - Unique XT toothing - Low Friction Coating

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)	Type of cut
3240-14-XT11-HP	14	11	Fine

Features

- For fine and medium thick materials, such as plywood, laminates and plastics
- Bevel ground teeth on thick blade for high precision and straight cutting with exceptionally good stability
- Curved, toothed nose for starting cuts in the middle of the surface of the work piece
- Screwed, one piece two-component Ergo™ handle
- Handle placement provides even distribution of power along the tooth line
- Comes with reusable plastic patented tooth protector

3240-14-XT11-HP

BAHCO® PROFCUT VENEER SAW

For Veneer and Other Fine Sawing

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)
PC-12-VEN	12	11

Features

- For fine and medium thick materials, such as plywood, laminates and plastics
- Fine UT toothing with 11 TPI
- Rounded cutting nose for pocket cuts
- The universal toothing is strong and hard wearing, suitable for both rip and cross cutting in all types of wood
- 3-sided ground tooth form ensures excellent results in all types of wood
- Comfortable-two component handle
- Comes with reusable plastic patented tooth protector

PC-12-VEN

BAHCO® PRIZECUT VENEER SAW

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)
NP-12-VEN	12	13

Features

- For fine and medium thick materials, such as plywood, laminates and plastics
- The universal toothing is strong and hard wearing, suitable for both rip and cross cutting in all types of wood
- Hard Point for longer life, rust protection lacquered
- Two-component solid handle
- Comes with reusable plastic patented tooth protector

NP-12-VEN

⚠WARNING

3150-12-XT9-HP

BAHCO® SUPERIOR COMPASS SAW WITH XT TOOTHING

Unique XT toothing - Low Friction Coating

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)	Type of cut
3150-12-XT9-HP	12	9	Medium

Features

- For all kinds of woods and plastics
- Bevel ground teeth on thick blade for high precision and straight cutting
- Exceptionally good stability, working more on pull than on push
- Handle placement provides even distribution of power along the tooth line
- Comes with reusable plastic patented tooth protector

PC-12-COM

BAHCO® PROFCUT COMPASS HANDSAWS

For Contour Cuts

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)
PC-12-COM	12	9

Features

- For all kinds of wood and plastic material
- Long lasting sharpness from the unique XT-toothing, hardpoint teeth
- Handle placement provides even distribution of power along the tooth line
- Comfortable-two component handle
- Comes with reusable plastic patented tooth protector

NP-12-COM

BAHCO® PRIZECUT COMPASS HANDSAWS

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)
NP-12-COM	12	7

Features

- For all kinds of wood and plastic material
- The universal toothing is strong and hard wearing, suitable for both rip and cross cutting in all types of wood
- Hard Point for longer life, rust protection lacquered
- One-component solid handle
- Comes with reusable plastic patented tooth protector

PC-6-DRY

BAHCO® DRY WALL SAW

Jab Saw

Product Code	Blade Length (Inch)
PC-6-DRY	6

Features

- Cuts drywall, wallboard, plywood, and plastic
- Blade cuts in both directions (push and pull)
- Sturdy blade with sharp point for punching through drywall

BAHCO® PROFCUT INSULATION SAW

Special Purpose Saw

Product Code	Blade Length (Inch)	Teeth Per Inch
PC-22-INS	22	WT Toothing

Features

- Specially designed for cutting insulation material
- Mineral wood
- Cuts plastic up to ¾" thick
- Cuts Styrofoam up to ¾" thick
- Handsaw has a wave formed sharpened edge (WT toothing) that allows it to slice through the material creating minimal wast
- Should be stored in sleeve for rust protection

PC-22-INS

BAHCO® PROFCUT TIMBER SAW

Comfortable two-component handle with Fileable Blade

Product Code	Blade Length (Inch)	Teeth Per Inch
PC-24-TIM	24	3 1/2

Features

- A handsaw for cutting Timber
- Fleam-toothed, non-hardpoint
- Can be re-sharpened by using the file 272
  Effective on the push as well as on the pull stroke
- Comfortable-two component handle
- Comes with reusable plastic patented tooth protector

PC-24-TIM

BAHCO® PROFCUT POLYSTYRENE, FOAM HANDSAW

Special-purpose handsaw

Product Code	Blade Length (Inch)	Teeth Per Inch (TPI)
PC-16-DECO	16	Special

Features

- Special toothing for cutting polystyrene and foam
- Specially developed toothing with very fine ground teeth and gullets designed to combine excellent finish with minimized clogging
- Comfortable-two component handle
- Comes with reusable plastic patented tooth protector

PC-16-DECO

BAHCO® PROFCUT LAMINATOR SAW

Special-purpose handsaw

Product Code	Blade Length (Inch)	Teeth Per Inch
PC-20-LAM	20	11/12

Features

- A handsaw for cutting laminate and wooden floors
- Long lasting sharpness from the unique XT-toothing, hardpoint teeth
- Comfortable-two component handle
- Comes with reusable plastic patented tooth protector

PC-20-LAM

⚠WARNING

PC-24-PLS

BAHCO® PROFCUT PLASTER SAW

Special-purpose Handsaw

Product Code	Blade Length (Inch)	Teeth Per Inch
PC-24-PLS	24	7

Features

- A handsaw for cutting plaster
- Super sharp GT-toothing is specially developed for high cutting performance
- The 3-sided ground tooth form ensures excellent results in all types of wood
- Comfortable-two component handle
- Comes with reusable plastic patented tooth protector

296

BAHCO® STRADIVARIUS - MUSICAL SAW

Specially made for musical applications

Product Code	Blade Length (Inch)
296	30

Features

- Polished blade with flat back and un-ground teeth, total length 34 1/4"
- Specially made for musical applications
- Traditional wood handle with brass hardware

301

303-5p

216-150-R

BAHCO® COPING SAW

Wooden beech handle

Product Code	Description	Blade Length (Inch)	Teeth Per Inch
301	Coping Saw	6 1/2	14
303-5P	Coping Saw Blades (5 Pack)	6 1/2	14
216-150-R	Rod Blade	6	Grit

Features

- Nickel-plated steel frame. Orange-lacquered, wooden beech handle
- Interchangeable blade fitted on retaining pins, turnable 360°
- Blade of hardened and tempered carbon steel, teeth milled and set, 14 TPI

BAHCO® MINI BOWHACK

Durable Metal Handle

Product Code	Blade Length (Inch)	Type of Wood
9-12-51/3806-KP	12	Dry Wood and Lumber

Features

- Toolbox sized mini-bow saw is easy to stow away and is ideal for plumbers and electricians
- Made of lightweight, high quality steel tubing for durability and easy handling
- High impact orange enamel paint protects from rust and corrosion
- Comes with 12" blade for wood cutting and a bi-metal hacksaw blade
- Equipped with durable metal handle

9-12-51/3806-KP

BAHCO® ECONOMY BOW SAWS

Durable Metal Handle

Product Code	Blade Length (Inch)
SE-16-21	21
SE-15-24	24
SE-15-30	30

Features

- Made of lightweight, quality steel tubing for durability and easy handling
- High impact orange enamel paint protects from rust and corrosion
- Pointed nose on 21" model ideal for use in tight spaces
- Durable metal handle

SE-16-21

SE-15-24

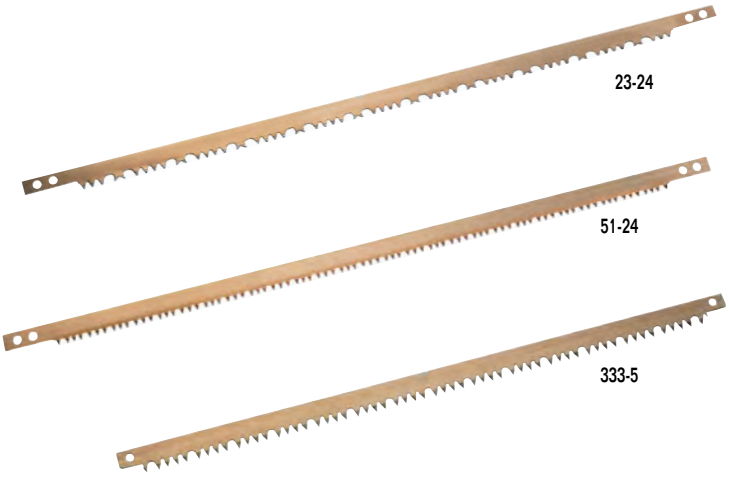
BAHCO® BOW SAW BLADES

Replacement blades

Product Code	Blade Length (Inch)	Type of Wood	Type of Toothing
23-21	21	Green Wood	Raker
23-24	24	Green Wood	Raker
23-30	30	Green Wood	Raker
23-36	36	Green Wood	Raker
51-12	12	Dry Wood and Lumber	Peg
51-21	21	Dry Wood and Lumber	Peg
51-24	24	Dry Wood and Lumber	Peg
51-30	30	Dry Wood and Lumber	Peg
51-36	36	Dry Wood and Lumber	Peg
51-42	42	Dry Wood and Lumber	Peg
333-5	14	Dry Wood	Raker

Features

- Rust-prevention treated
- Packed in individual sleeve printed with graphically illustrated text for correct blade selection



23-24

51-24

333-5

⚠WARNING

10-21-51

BAHCO® ERGO™ BOW SAWS

Ergonomically designed handle

Product Code	Blade Length (Inch)	Type of Wood
10-21-51	21	Dry Wood and Lumber
10-24-51	24	Dry Wood and Lumber
10-24-23	24	Green Wood
10-30-23	30	Green Wood
10-30-51	30	Dry Wood and Lumber
9-36-23-KP*	36	Dry Wood and Lumber

* Equipped with non-Ergo™ metal handle

Features

- Designed for demanding applications and tough environments of construction sites
- Innovative tensioning mechanism for high blade tension and straight cutting
- Ergo™ handle with knuckle protector provides comfort and safety
- Made of lightweight, high quality steel tubing for durability and easy handling
- High impact orange enamel paint protects from rust and corrosion
- Strong blade fitting for easy and safe blade storage

332

331

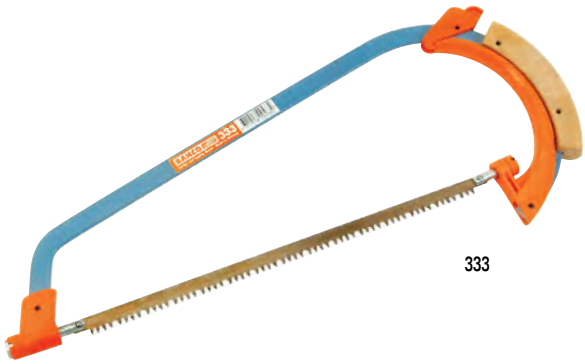
BAHCO® BOW SAWS - POINTED NOSE

Durable Handle

Product Code	Blade Length (Inch)	Type of Wood	Handle
332-21-51	21	Dry Wood and Lumber	Ergo™
331-21-51-KP	21	Dry Wood and Lumber	Standard

Features

- Small and handy bow saw for all around use
- Pointed nose makes the saw ideal for use in tight spaces
- Used for pruning and roofing work
- Model 332 is equipped with an Ergo™ handle



333

BAHCO® BOW SAW - QUICK CHANGE

Equipped With Raker Blade for Cutting Dry Wood

Product Code	Blade Length (Inch)
333	14
333-5	Replacement Blade

Features

- The steel frame has special blade holders with a extra strong blade attachment mechanism
- Reversible blade, hardened for durability which can be rotated around its long axis
- Equipped with durable plastic handle
- Handle releases for quick blade changes

BAHCO® ERGO™ PROFESSIONAL HAND HACKSAW

Ergonomic Handles Maximize Cutting Control and Power

Product Code	Description	Blade Length (Inches)
325	Ergo™ Hand Hacksaw	12

Features

- Ergonomically designed with extremely high blade tension for straight, accurate and fast cuts
- Centered blade for correct balance and reduced cutting effort
- Alternative 55° blade mounting for flush cutting
- Supplied with reliable and shatterproof 12 inch bi-metal blade, 24 TPI
- Single touch spring loaded blade release mechanism for fast blade changes
- Winner of the Silver Award from the Industrial Designers Society of America

325

BAHCO® PROFESSIONAL HAND HACKSAW

Non-Slip Handles Ensures a Solid and Secure Grip.

Product Code	Description	Blade Length (Inches)
319	Professional Hand Hacksaw	12

Features

- Alternative 55° blade mounting for flush cutting
- Offers a strong steel frame that is covered with a protective dual component plastic
- Comfortable, non-slip back handle and front grip ensures a solid, secure grip
- Tension mechanism is fully integrated into the handles so there is no obstruction during use
- Supplied with reliable and shatterproof 12 inch bi-metal blade, 24 TPI

319

BAHCO® TRADESMAN'S HAND HACKSAW

Durable Aluminum Handle

Product Code	Description	Blade Length (Inches)
317	Tradesman's Hand Hacksaw	12

Features

- Alternative 90° blade mounting
- Light and comfortable frame for difficult-to-reach applications
- Durable aluminum handle
- Metal tensioning lever designed to be comfortable and unobtrusive
- Supplied with BAHCO® Bimetal blade for safety and efficiency

317

BAHCO® TRADITIONAL HAND HACKSAW

Heavy Duty Frame with Blade Storage

Product Code	Description	Blade Length (Inches)
225-PLUS	Traditional Hand Hacksaw	12

Features

- Allows very high blade tension for accurate and fast cuts
- Strong rectangular back section for blade storage with easy-to-handle retaining screws
- Can also be used as a compass saw
- Alternative 55° blade mounting for flush cutting
- Supplied with reliable and shatterproof 12 inch bi-metal blade, 24 TPI

225-PLUS

⚠WARNING

306

BAHCO® LIGHTWEIGHT HAND HACKSAW

Durable Aluminum Handle

Product Code	Description	Blade Length (Inches)
306	Lightweight Hand Hacksaw	10 & 12

Features

- Alternative 90° blade mounting.
- Accepts both 10" and 12" blades.
- Ultra light, only 11 ounces.
- Supplied with BAHCO® Bimetal blade for safety and efficiency.

268

BAHCO® MINI HACKSAW

Frame with Solid Steel Profile

Product Code	Description	Blade Length (Inches)
268	Mini Hacksaw	6

Features

- Chrome filled and fitted with a fiberglass handle to give a good and comfortable grip
- Supplied with reliable and shatterproof 10 inch bi-metal blade, 24 TPI
- Practical and simple blade-tensioning screw

228

BAHCO® MINI HACKSAW

Blade-Tensioning Handle

Product Code	Description	Blade Length (Inches)
228	Mini Hacksaw	6

Features

- Simple and quick, twist-action, blade-tensioning handle, made of beech wood and orange lacquered
- Complete with 6 inch, 32 TPI blade for metal cutting

218

BAHCO® MINI HACKSAW

Metal Cutting

Product Code	Description	Blade Length (Inches)
218	Mini Hacksaw	6

Features

- Complete with 6 inch, 32 TPI blade for metal cutting

208

BAHCO® MINI EXTENDABLE HACKSAW

Perfect for Difficult to Reach Work

Product Code	Description	Blade Length (Inches)
208	Mini Extendable Hacksaw	10

Features

- A mini-hacksaw frame for difficult to reach positions
- Supplied with reliable and shatterproof 10 inch bi-metal blade, 24 TPI
- Blade position adjusts for maximum versatility

BAHCO® TUNGSTEN CARBIDE HACKSAW BLADE

Metal Cutting

Product Code	Description	Blade Length (Inches)
3816-300	Carbide grit hacksaw blade	12

Features

- Anti-corrosion treated, carbon steel blade back
- Tungsten carbide grit toothing
- Fits all 12" metal saw frames

3816-300

BAHCO® BIMETAL HAND HACKSAW BLADES

Virtually Unbreakable and Shatterproof Bimetal Blades for all Metal Sawing

Product Code	Length	Teeth Per Inch	Blades per Package (To order, add Pack Quantity to End of Product Code) 100	10P	5P	3P	2P
3818-300-PROG-	12	18/24/32 **	X		X		
3906-250-18-	10	18	X		X		
3906-250-24-	10	24	X		X		
3906-250-32-	10	32	X		X		
3906-300-14-	12	14	X	X	X		
3906-300-18-	12	18	X	X	X		X
3906-300-24-	12	24	X	X	X		X
3906-300-32-	12	32	X	X	X		X
3906-300-	12	1 ea 18/24/32				X	

Features

- Blade back made of strong, flexible spring steel with a tooth line of high-alloyed super high speed steel
- Bimetal construction guarantees the blade to keep its sharpness for a long time
- Precision ground teeth for all kinds of metal sawing
- Combine extreme cutting performance and wear resistance with a high degree of flexibility
- Vastly superior to all-hard high speed blades or conventional, flexible blades
- **Progressive tooth hacksaw blade features 3-tooth patterns for fast starting and cutting
- Improved painting techniques allows for better cutting from the start with no paint in the gullets

Progressive Tooth Blade
3818-300-PROG-100

Hacksaw Blade, 18 TPI
3906-300-18-100

100 Pack

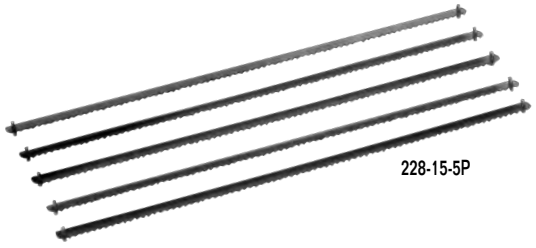
BAHCO® MINI HACKSAW BLADES

Anti-corrosion Treated, Carbon Steel Blades

Product Code	Blades per Package	Blade Length (Inches)	TPI	For Cutting
228-15-5P	5	6	15	Wood
228-32-5P	5	6	32	Metal

Features

- Made of hardened and tempered carbon steel
- Teeth milled and set



228-15-5P

BAHCO® ROD SAW BLADE

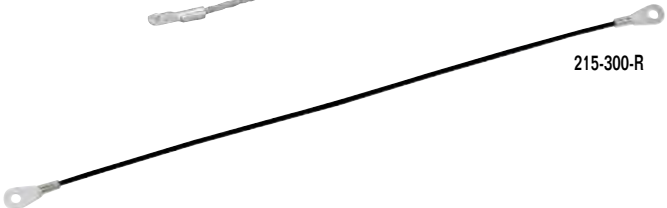
Suitable for Cutting Glass, Ceramics, Porcelain and Steel

Product Code	Blades per Package	Blade Length (Inches)	Fits
215-150	1	6	Mini Hacksaws
216-300-R	1	12	All 12" Hacksaws

Features

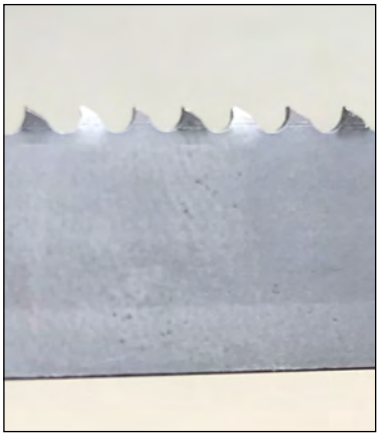
- Base steel rod coated with cemented carbide

215-150



215-300-R

⚠WARNING



BI-METAL PORTABLE BANDSAW BLADES FOR HAND HELD MACHINES

Product Code	Dimensions (inch)	Dimensions (mm)	Length (inch)	Length (mm)	Tooth Type	Teeth per inch	5 Pack
Loops							
PB13-0.5-R-10-1140-5P	½ x 0.020	13 x 0.50	44 7/8	1140	Regular	10	X
PB13-0.5-R-14-1140-5P	½ x 0.020	13 x 0.50	44 7/8	1140	Regular	14	X
PB13-0.5-R-18-1140-5P	½ x 0.020	13 x 0.50	44 7/8	1140	Regular	18	X
PB13-0.5-R-24-1140-5P	½ x 0.020	13 x 0.50	44 7/8	1140	Regular	24	X
PB13-0.5-10/14-1140-5P	½ x 0.020	13 x 0.50	44 7/8	1140	Combo	10/14	X
PB13-0.5-14/18-1140-5P	½ x 0.020	13 x 0.50	44 7/8	1140	Combo	14/18	X

Features

- A unique design for multipurpose and jobshop use that provides hand-held machines with fast cutting, easy feeding, exceptional control, and precision cutting on a variety of materials
- Perfect for cutting stainless steel, angle iron, bronze, copper, galvanized pipe, mild steel, aluminum, brass, chrome

BAHCO® HOLESAWS

BAHCO® Holesaws set the standard in precision, quality, durability and versatility. Whatever the job, you will find the Holesaws and accessories you need.

Each part of the Holesaw is designed to boost productivity and craftsmanship, from the design of the cutting edges to the technologies used in production. There is consistent quality and total control from making the Bi-Metal all the way to the finished Holesaw. In our own R&D department, we test and develop innovations to ensure that we stay ahead of the market. Our wide range of Holesaws and accessories will meet your needs for almost any material. They are compatible with all machine brands.

Complete Holesaw System
Looking for maximum performance and flexibility? BAHCO®'s line of arbors, extensions, pilot drills, ejector springs and adaptors are designed as a fully interchangeable system.

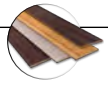
CUTTING SPEED RECOMMENDATIONS

To get maximum result out of each Holesaw, we recommend the following cutting speeds (RPM).

BI-METAL SANDFLEX HOLESAW

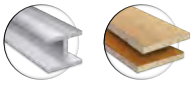
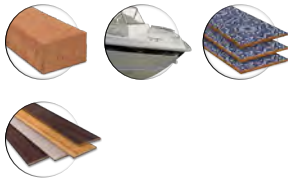
	FE	18/8	Cast iron	CuZn	Alu	Wood
9/16-3/4"	580-460	300-240	400-300	790-600	900-690	3000
25/32-1 3/16"	435-285	230-145	290-190	580-380	660-425	3000-2400
1 1/4-1 7/8"	275-180	140-90	180-120	360-240	410-270	2400-2100
2 - 3"	170-115	85-55	115-75	230-150	255-170	2000-1500
3 1/8 - 4 1/8"	110-80	55-40	70-55	140-110	165-120	1500-1000
4 1/4-6"	80-55	40-25	55-35	110-75	120-75	900-800

CARBIDE TIPPED HOLESAW

	Fiberglass	 Laminate	Brick	Tiles
19/16-3/4"	2380-1790	1360-1020	1705-1280	680-510
25/32-1 3/16"	1700-1130	970-640	1210-810	480-320
1 1/4-1 7/8"	1070-710	610-410	770-510	310-205
2-3"	670-450	380-260	480-320	190-130
3 1/8-4 1/8"	430-320	250-185	310-235	125-92
4 1/4-6"	310-220	180-130	230-160	90-65

⚠WARNING

HOLESAW RANGE

	Multi-Construction Superior Holesaws	Bi-Metal Sandflex Holesaws	Carbide tipped holesaw
Range	3/4"–6"	9/16"–6"	9/16"–6"
Application			
Sets	✔	✔	
Quick-Eject Arbors	3834-ARBR-930EL 3834-ARBR-9100EL	3834-ARBR-930ESM 3834-ARBR-9100ESM	3834-ARBR-930ES 3834-ARBR-9100ES
Standard Arbors	3834-ARBR-630 | 3834-ARBR-730 | 3834-ARBR-930 | 3834-ARBR-1130		
Quick Change Arbors	3834-ARBR-9100QC | 3834-ARBR-11152QC | 3834-ARBR-16152QC		
Power Driver™ Arbors	3834-ARBR-9100 | 3834-ARBR-11152 | 3834-ARBR-16152		
Arbors with SDS+ shank	3834-ARBR-SD30 | 3834-ARBR-SD152QC		
Pilot Drills Quick-Eject Arbors	3834-DRL-EL	3834-DRL-EL	3834-DRL-ES
Pilot Drills Standard Arbors	3834-DRL-L	3834-DRL	3834-DRL-CT
Upsize Adaptor	3834-UPSIZE		
Ejector Spring	3834-ES		
Arbor Adaptor	3834-ADP		
Arbor Extensions	3834-EXT		

ARBOR SELECTION DEPENDS ON THE SIZE OF THE HOLESAW.
LOOK FOR THE OVER VIEW ON PAGE 450

MULTI-CONSTRUCTION SUPERIOR™ HOLESAWS

GO STRAIGHT THROUGH A WALL IN ONE GO!

BAHCO® Superior™ Holesaws

3/4" (19mm) to 6-17/64" (159mm)

The Superior holesaw from BAHCO® is perfect for making holes in wood, including manufactured wooden materials like MDF, as well as brick, lightweight concrete, plasterboard and hard plastics. The holesaws have an extreme cutting depth of 2-3/4" (71mm) which allows the user to go through many materials such as studs in one cut! The precision ground carbide tips and the superior low friction coating cut smoothly and require less pressure. The multi construction assortment offers a wide range of sizes and is a perfect match with the Quick-eject arbor.

BAHCO® QUICK EJECT ARBORS

Product Code	Fits Holesaws	Drill
3834-ARBR-930ES	Bimetal up to 30 mm	3834-DRL-ES
3834-ARBR-930EL	Superior up to 30 mm	3834-DRL-EL
3834-ARBR-9100ES	Bimetal 32 mm and larger	3834-DRL-ES
3834-ARBR-9100EL	Superior 32 mm and larger	3834-DRL-EL

Features

- Allows the user to save time by releasing the core from the holesaw in one simple, fast and efficient operation without burning your fingers on a hot holesaw or release adapter
- Quick eject arbors provides stable drilling in challenging environments
- Arbor comes with a solid round carbide tipped drill and there is no need to change the drill between applications

3834-ARBR-930

3834-ARBR-9100

3834-DRL-EL

3834-DRL-ES

3834-DRL-L

For Superior™ holesaw in combination with standard arbor.

WARNING

3833-SET-101

BAHCO® 10 PIECE SUPERIOR™ HOLESAW SET

Product Code	Description
3833-SET-101	10 Piece Superior Holesaw Set

Contents Include:

- Superior Holesaw: 3/4, 7/8, 1 1/8, 1 3/8, 1 3/4, 2, 2 1/2
- Arbors: 3834-ARBR-930EL, 3834-ARBR-9100EL
- Pilot Drill: 3834-DRL-EL

BAHCO® 13 PIECE SUPERIOR™ HOLESAW SET

Product Code	Description
3833-SET-201	10 Piece Superior Holesaw Set

Contents Include:

- Superior Holesaw: 3/4, 25/32, 1, 1 1/4, 1 5/8, 2, 2 7/8, 3, 3 1/4, 3 3/8
- Arbors: 3834-ARBR-930EL, 3834-ARBR-9100EL
- Pilot Drill: 3834-DRL-EL

3833-SET-201

BAHCO® INDIVIDUAL SUPERIOR™ HOLESAWS

Product Code	Diameter (inch)	Diameter (mm)
3833-19-C	3/4	19
3833-20-C	25/32	20
3833-22-C	7/8	22
3833-25-C	1	25
3833-27-C	1 1/16	27
3833-29-C	1 1/8	29
3833-30-C	1 3/16	30
3833-32-C	1 1/4	32
3833-35-C	1 3/8	35
3833-38-C	1 1/2	38
3833-40-C	1 9/16	40
3833-41-C	1 5/8	41
3833-44-C	1 3/4	44
3833-48-C	1 7/8	48
3833-51-C	2	51
3833-54-C	2 1/8	54
3833-57-C	2 1/4	57
3833-60-C	2 3/8	60
3833-64-C	2 1/2	64
3833-65-C	2 9/16	65
3833-67-C	2 5/8	67
3833-68-C	2 11/16	68
3833-70-C	2 3/4	70
3833-73-C	2 7/8	73
3833-76-C	3	76
3833-77-C	3 1/32	77
3833-79-C	3 1/8	79
3833-83-C	3 1/4	83
3833-86-C	3 3/8	86
3833-89-C	3 1/2	89
3833-92-C	3 5/8	92
3833-95-C	3 3/4	95
3833-98-C	3 7/8	98
3833-102-C	4	102
3833-105-C	4 1/8	105
3833-108-C	4 1/4	108
3833-109-C	4 19/64	109
3833-111-C	4 3/8	111
3833-114-C	4 1/2	114
3833-121-C	4 3/4	121
3833-127-C	5	127
3833-140-C	5 1/2	140
3833-152-C	6	152
3833-159-C	6 17/64	159

- SUPERIOR Holesaws are perfect for cutting holes in wood, brick, concrete, plasterboard and hard plastics
- The holesaws have an extreme cutting depth of 2 3/4" (71mm)
- The precision ground carbide tips and superior low friction coating cut smoothly and require less pressure

BI-METAL SANDFLEX HOLESAWS

RESEARCHED, DEVELOPED AND MANUFACTURED BI-METAL HOLESAWS BY BAHCO®

BAHCO® Bi-Metal Holesaws

BAHCO® was the first to create a successful bi-metal blade that combines a flexible, shatter-resistant spring steel back with a high speed steel cutting edge to provide faster, more durable cutting power. With the latest generation of bi-metal holesaws, we take the technology even further.

The cutting edge (with 4 to 6 teeth per inch) is electron beam-welded to a tough alloy back, and then the teeth are precision ground to further increase cutting efficiency. The result is a holesaw that can cut clean, accurate holes in virtually any machinable material. Vertical slots allow easy core removal.

shatterproof bi-metal body for more safety

Simple holesaw selection thanks to the printed material information

Made with 8% cobalt to ensure a longer holesaw life

Range 14-152 mm has a **6° positive tooth angle** for aggressive cutting

Range 168-210 mm has a **0° tooth angle** to simplify cutting

BAHCO® INDIVIDUAL BI-METAL HOLESAWS

Product Code	Dia. (inch)	Dia. (mm)
Individual Pack		
3830-14-VIP	9/16	14
3830-16-VIP	5/8	16
3830-17-VIP	11/16	17
3830-19-VIP	3/4	19
3830-20-VIP	25/32	20
3830-21-VIP	13/16	21
3830-22-VIP	7/8	22
3830-24-VIP	15/16	24
3830-25-VIP	1	25
3830-27-VIP	1 1/16	27
3830-29-VIP	1 1/8	29
3830-30-VIP	1 3/16	30
3830-32-VIP	1 1/4	32
3830-33-VIP	1 5/16	33
3830-35-VIP	1 3/8	35
3830-37-VIP	1 7/16	37
3830-38-VIP	1 1/2	38
3830-40-VIP	1 9/16	40

Product Code	Dia. (inch)	Dia. (mm)
3830-41-VIP	1 5/8	41
3830-43-VIP	1 11/16	43
3830-44-VIP	1 3/4	44
3830-46-VIP	1 13/16	46
3830-48-VIP	1 7/8	48
3830-51-VIP	2	51
3830-52-VIP	2 1/16	52
3830-54-VIP	2 1/8	54
3830-56-VIP	2 3/16	56
3830-57-VIP	2 1/4	57
3830-59-VIP	2 5/16	59
3830-60-VIP	2 3/8	60
3830-64-VIP	2 1/2	64
3830-65-VIP	2 9/16	65
3830-67-VIP	2 5/8	67
3830-68-VIP	2 11/16	68
3830-70-VIP	2 3/4	70
3830-73-VIP	2 7/8	73
3830-76-VIP	3	76

Product Code	Dia. (inch)	Dia. (mm)
3830-79-VIP	3 1/8	79
3830-83-VIP	3 1/4	83
3830-86-VIP	3 3/8	86
3830-89-VIP	3 1/2	89
3830-92-VIP	3 5/8	92
3830-95-VIP	3 3/4	95
3830-98-VIP	3 7/8	98
3830-102-VIP	4	102
3830-105-VIP	4 1/8	105
3830-108-VIP	4 1/4	108
3830-111-VIP	4 3/8	111
3830-114-VIP	4 1/2	114
3830-121-VIP	4 3/4	121
3830-127-VIP	5	127
3830-133-VIP	5 1/4	133
3830-140-VIP	5 1/2	140
3830-146-VIP	5 3/4	146
3830-152-VIP	6	152

BAHCO® 9 PIECE PLUMBER'S HOLESAW SET

The sizes that plumbers need most, with the cutting power that produces faster, cleaner holes.

Product Code	Description
862209	9 Piece Plumber's Holesaw Set

Contents Include:

- Holesaws: ¾", ⅞", 1 ⅛", 1 ½", 1 ¾", 2 ¼"
- Arbors: 3834-ARBR-730 and 3834-ARBR-1152QC
- Fits holesaws 9/16"-13/16", 1 ¼"-6"
- Extension: 3834-EXT-1

862209

BAHCO® 9 PIECE ELECTRICIAN'S HOLESAW SET

The holesaws electrician's use every day. Offering superior performance and convenience.

Product Code	Description
862109	9 Piece Electrician's Holesaw Set

Contents Include:

- Holesaws: ⅞", 1 ⅛", 1 ⅜", 1 ¾", 2", 2 ½"
- Arbors: 3834-ARBR-730 and 3834-ARBR-1152QC
- Fits holesaws 9/16"-13/16", 1 ¼"-6"
- Extension: 3834-EXT-1

862109

⚠WARNING

BAHCO® Bimetal Holesaw Sets

Assortments of holesaws and accessories most commonly used by the trades, especially electricians and plumbers. Each packed in a durable plastic carrying case for convenience.

862007

BAHCO® 7 PIECE HOLESAW SET

Product Code
862007

Contents Include:

- Holesaws: ⅞", 1", 1 ⅛", 1 ¼", 1 ½"
- Arbor: 3834-ARBR-730
- Adapter: 3834-ADP
- Fits holesaws ⁹⁄₁₆"-¹³⁄₁₆", 1 ¼"-6"

862013

BAHCO® 13 PIECE HOLESAW SET

Product Code
862013

Contents Include:

- Holesaws: ¾", ⅞", 1 ⅛", 1 ⅜", 1 ½", 1 ¾", 2", 2 ¼", 2 ½"
- Arbors: 3834-ARBR-730 and 3834-ARBR-1152QC
- Fits holesaws ⁹⁄₁₆"-1 ³⁄₁₆", 1 ¼"-6"
- Adapter: 3834-ADP
- Pilot Drill: 3834-DRL-1

862017

BAHCO® 17 PIECE HOLESAW SET

Product Code
862017

Contents Include:

- Holesaws: ⅝", ¾", ⅞", 1", 1 ⅛", 1 ¼", 1 ⅜", 1 ½", 1 ¾", 2", 2 ½", 3"
- Arbors: 3834-ARBR-730 and 3834-ARBR-11152QC
- Fits holesaws ⁹⁄₁₆"-¹³⁄₁₆", 1 ¼"-6"
- Adapter: 3834-ADP
- Pilot Drill: 3834-DRL-1 (3 pcs)

862021

BAHCO® 21 PIECE HOLESAW SET

Product Code
862021

Contents Include:

- Holesaws: ¾", ⅞", 1", 1 ⅛", 1 ⅜", 1 ½", 1 ¾", 2", 2 ¼", 2 ½", 3", 3 ¼", 3 ⅝", 3 ¾", 4 ⅛", 4 ¾"
- Arbors: 3834-ARBR-1130 and 3834-ARBR-11152QC
- Fits holesaws ⁹⁄₁₆"-¹³⁄₁₆", 1 ¼"-6"
- Pilot Drill: 3834-DRL-1 (3 pcs)

CARBIDE-TIPPED HOLESAWS

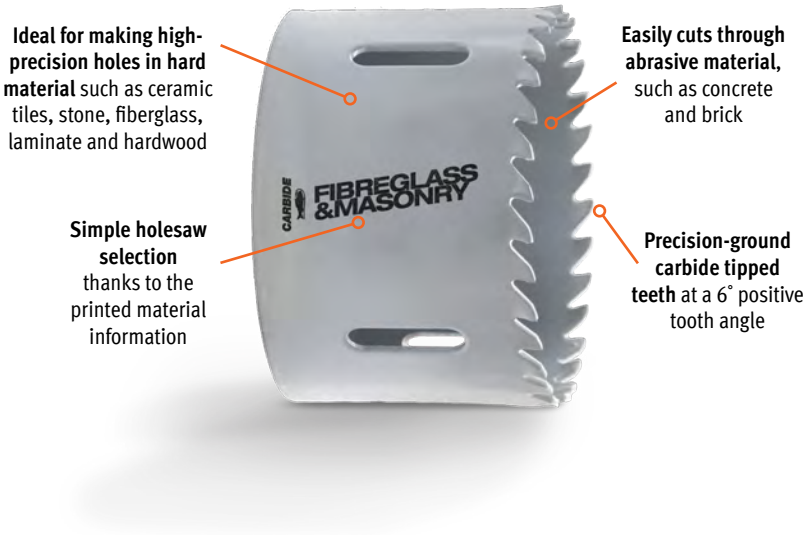
HIGHLY WEAR RESISTANT

BAHCO® Carbide-Tipped Holesaws

BAHCO® carbide holesaws are designed to quickly and cleanly cut precise holes in ceramics, bricks, slate, laminate, fiberglass and hardwood.

With 4 precision ground carbide tips per inch — fusion-welded to an alloy steel back — these holesaws provide an impressive combination of strength, cutting power and durability.

Equipped with vertical slots for easy core removal, carbide-tipped holesaws are available in diameters from 9/10" to 6"; cutting depth for all holesaws is 1 1/2".



BAHCO® Carbide Tipped Holesaw Sets

For the professional who works with a wide variety of non-metallic surfaces, this set will cut through anything from hardwood to bricks.

BAHCO® 7 PIECE HOLESAW SET

Product Code
863307

Contents Include:

- Holesaws: 7/8", 1", 1 1/8", 1 1/4", 1 1/2"
- Arbor: 3834-ARBR-730
- Fits holesaws 9/16"-13/16"
- Adapter: 3834-ADP

863307

BAHCO® 13 PIECE HOLESAW SET

Product Code
863313

Contents Include:

- Holesaws: 3/4", 7/8", 1 1/8", 1 3/8", 1 1/2", 1 3/4", 2", 2 1/4", 2 1/2"
- Arbors: 3834-ARBR-730 and 3834-ARBR-1152QC
- Adapter: 3834-ADP
- Pilot Drill: 3834-DRL-1

863313

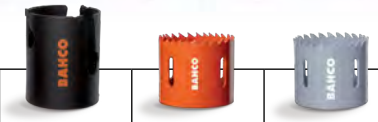
WARNING

BAHCO® INDIVIDUAL CARBIDE-TIPPED HOLESAWS

Product Code	Diameter (inch)	(mm)
Individual Pack		
3832-14	9/16	14
3832-16	5/8	16
3832-17	11/16	17
3832-19	3/4	19
3832-20	25/32	20
3832-21	13/16	21
3832-22	7/8	22
3832-24	15/16	24
3832-25	1	25
3832-27	1 1/16	27
3832-29	1 1/8	29
3832-30	1 3/16	30
3832-32	1 1/4	32
3832-33	1 5/16	33
3832-35	1 3/8	35
3832-37	1 7/16	37
3832-38	1 1/2	38
3832-40	1 9/16	40
3832-41	1 5/8	41
3832-43	1 11/16	43
3832-44	1 3/4	44
3832-46	1 13/16	46
3832-48	1 7/8	48
3832-51	2	51
3832-52	2 1/16	52
3832-54	2 1/8	54
3832-56	2 3/16	56
3832-57	2 1/4	57
3832-59	2 5/16	59
3832-60	2 3/8	60
3832-64	2 1/2	64
3832-65	2 9/16	65
3832-67	2 5/8	67
3832-68	2 11/16	68
3832-70	2 3/4	70
3832-73	2 7/8	73
3832-76	3	76
3832-79	3 1/8	79
3832-83	3 1/4	83
3832-86	3 3/8	86
3832-89	3 1/2	89
3832-92	3 5/8	92
3832-95	3 3/4	95
3832-98	3 7/8	98
3832-102	4	102
3832-105	4 1/8	105
3832-108	4 1/4	108
3832-111	4 3/8	111
3832-114	4 1/2	114
3832-121	4 3/4	121
3832-127	5	127
3832-133	5 1/4	133
3832-140	5 1/2	140
3832-146	5 3/4	146
3832-152	6	152

ARBORS & PILOT DRILLS

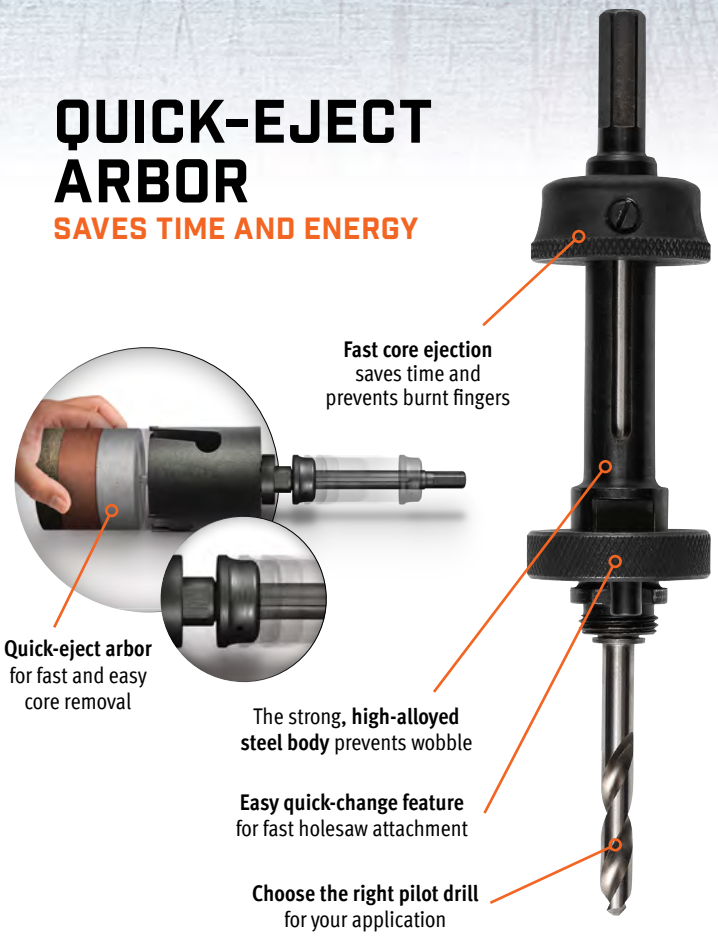
ADAPT TO EACH SITUATION FOR THE BEST RESULTS



	Arbors	Pilot Drills			
HOLE SIZE UP TO 1 3/16"	**Arbors with Quick-Eject function** for easily removing the core 3834-ARBR-930EL	3834-DRL-EL	✓		
	3834-ARBR-930ESM	3834-DRL-HSS-ES		✓	
	3834-ARBR-930ES	3834-DRL-ES			✓
	Standard Arbors 3834-ARBR-630 3834-ARBR-730 3834-ARBR-930 3834-ARBR-1130	3834-DRL-L	✓		
		3834-DRL		✓	
		3834-DRL-CT			✓
	Arbors with SDS+ shank For machines with Quick-Change chucks 3834-ARBR-SD30	3834-DRL-L	✓		
		3834-DRL		✓	
		3834-DRL-CT			✓
HOLE SIZE 1 1/4" AND BIGGER	**Arbors with Quick-Eject function** for taking out the core easily 3834-ARBR-9100EL	3834-DRL-EL	✓		
	3834-ARBR-9100ESM	3834-DRL-HSS-ES		✓	
	3834-ARBR-9100ES	3834-DRL-ES			✓
	Quick-Change Arbors for easy Holesaw changes 3834-ARBR-9100QC 3834-ARBR-11152QC 3834-ARBR-16152QC	3834-DRL-L	✓		
		3834-DRL		✓	
		3834-DRL-CT			✓
	Power Driver™ Arbors for optimal stability 3834-ARBR-9100 3834-ARBR-11152 3834-ARBR-16152	3834-DRL-L	✓		
		3834-DRL		✓	
		3834-DRL-CT			✓
	Arbors with SDS+ shank For machines with Quick-Change chucks 3834-ARBR-SD152QC	3834-DRL-L	✓		
		3834-DRL		✓	
		3834-DRL-CT			✓

QUICK-EJECT ARBOR

SAVES TIME AND ENERGY



BAHCO® PILOT DRILLS

Product Code	Description
3834-DRL	For Non Quick Eject Arbors for Bi-Metal Holesaws
3834-DRL-CT	For Non Quick Eject Arbors for Carbide Holesaws
3834-DRL-L	For Non Quick Eject Arbors for Superior Holesaws
3834-DRL-ES	Carbide Tipped for Quick Eject Arbors (ES & ESM) & Carbide Holesaws
3834-DRL-HSS-ES	High Speed Steel for Bi-metal Holesaws
3834-DRL-EL	All Round Carbide Tipped for Quick Eject Arbors & Superior Holesaws

Features

- Pilot drills make a hole in the workpiece before the teeth of the holesaw become engaged, guiding and keeping the holesaw in the correct position duuring the sawing operation

BAHCO® UPSIZE ADAPTOR

Product Code	Description
3834-UPSIZE	For enlarging existing holes

Features

- Attached to the pilot drill with the hexagon screw
- To be use on both small and large holesaws
- Works excellent with the Quick-Eject arbors

BAHCO® ARBOR ADAPTOR

Product Code	Description
3834-ADP	Fits arbors 630, 730, 930, 1130

Features

- Adapts small arbor threads to accommodate large holesaw threads

BAHCO® CORE EJECTION SPRING

Product Code	Description
3834-ES	For Pilot drills, to facilitate core removal

BAHCO® QUICK EJECT ARBORS

Product Code	Fits Holesaws
3834-ARBR-930ES	Carbide Tipped up to 1 3/16
3834-ARBR-930EL	Superior up to 1 3/16
3834-ARBR-930ESM	Bimetal up to 1 3/16
3834-ARBR-9100ES	Carbide Tipped 1 1/4 and Larger
3834-ARBR-9100EL	Superior 1 1/4 and Larger
3834-ARBR-9100ESM	Bimetal 1 1/4 and Larger

Features

- Allows the user to save time by releasing the core from the holesaw in one simple, fast and efficient operation without burning your fingers on a hot holesaw or release adapter
- Quick eject arbors provides stable drilling in challenging environments
- ESM Arbors include HSS drills, ES & EL Arbors include all round carbide drills

BAHCO® ARBORS

Standard Arbors - Fits holesaw 9/16" to 1-3/16"

Product Code	Dia. (Inch)
3834-ARBR-630	1/4 HEX
3834-ARBR-730	9/32 TRI
3834-ARBR-930	11/32 HEX
3834-ARBR-1130	7/16 HEX

Features

- Includes HSS drill be use for Metal & Wood Applications
- Arbors can be used for Carbide and Multi-Construction holesaw but requires changing the drill

Quick-Change Arbor - Fits holesaw 1-1/4" and bigger

3834-ARBR-9100QC	11/32 HEX
3834-ARBR-11152QC	7/16 HEX
3834-ARBR-16152QC	5/8 HEX

Features

- Arbors have a quick-change mechanism where no additonal tools are needed to change the holesaw
- Includes HSS drill be use for Metal & Wood Applications
- Arbors can be used for Carbide and Multi-Construction holesaw but requires changing the drill

Power Driver™ Arbors for Optimal Stability - Fits holesaws 1-1/4" and bigger

3834-ARBR-9100	11/32 HEX
3834-ARBR-11152	7/16 HEX
3834-ARBR-16152	5/8 HEX

Features

- Includes HSS drill be use for Metal & Wood Applications
- Power Driver™ increases the strength and eliminates play of the hole-saw by redistributing the load from the thread to the solid cap
- Arbors can be used for Carbide and Multi-Construction holesaw but requires changing the drill

Arbors with SDS+ shank - for Quick Change Chucks

3834-ARBR-SD30	Fits holesaws up to 1-3/16"
3834-ARBR-SD152QC	Fits holesaws up to 1-1/4" and larger

Features

- All arbors are hardened for maximum strength. Pilot drill is included.

BAHCO® ARBOR EXTENSIONS

Product Code	Fits Arbors	Length (Inches)
3834-EXT-1	1130, 11152, 11152QC	12
3834-EXT-2	930, 9100, 9100QC	12

Features

- For reach in difficult to cut surroundings

BAHCO® RECIPROCATING SAW BLADES

FULL OF POWER

BAHCO® has an exceptional range of reciprocating saw blades. Each category has a wide range of shapes, lengths and toothing, with one for every application.

Our Bi-Metal (Sandflex®) blades are famous for their high quality and time-saving performance, and are highly respected by professionals. Our tough carbide tipped blades deliver impressive cutting power in any situation. Whatever the task, you will produce faster, cleaner and more accurate cuts, time after time.

SELECT THE RIGHT TOOTHING (TPI)

TEETH PER INCH

	Material thickness	≤ 1/8"	1/8" to 3/8"	3/8" to 3/4"	3/4" to 2"	≥ 2"
●	Metal Saw Blades	24	18	14 - 10 - 8/12	8/12	
	Metal and Wood Saw Blades		10/14	10 - 8/12	6 - 5/8	4/6
●	Wood Saw Blades		11	7	7 - 5	5
●	Special Saw Blades		GRIT	6	6	3

SAW BLADE SHAPES

Our range of reciprocating saw blades includes a variety of blade shapes for different styles of cutting.

STANDARD (ST)
For fast and aggressive straight cuts, but still flexible for narrow cutting.

SCROLL (SC)
For contour sawing and sawing in difficult-to-reach places.

DEMOLITION (DSL)
Extra thick and wide saw blades for demolition and heavy-duty work.

HIGH SLOPE (HSL)
The wide body makes it highly resistant to bending, allowing straight cuts in wood.

HEAVY STANDARD (HST)
The wide body makes it highly resistant to bending, allowing straighter cuts.

SLOPE (SL)
Thick blades with a narrow nose for sawing in tight spots, but highly resistant to bending.

PALLET REPAIR (PR)
The rounded front design prevents the blade from getting stuck.

WARNING

FULL RANGE OF RECIPROCATING SAW BLADES AVAILABLE

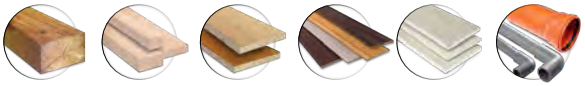
RECIPROCATING SAW BLADES FOR METAL

4"–12"	✓	✓	✓	✓	✓	✓	✓	✓	
6"–12"	✓	✓	✓	✓	✓	✓			✓
4" and 6"		✓			✓	✓			
4"		✓			✓		✓	✓	

RECIPROCATING SAW BLADES FOR WOOD & METAL

6"–12"	✓	✓	✓			
6"–12"	✓		✓	✓		
9"	✓		✓	✓	✓	✓
9"	✓	✓				

RECIPROCATING SAW BLADES FOR WOOD



9" and 12"		✓	✓			
9" and 12"	✓	✓				
9"			✓	✓		✓
6"–12"			✓		✓	

RECIPROCATING SAW BLADES FOR SPECIAL APPLICATIONS

6"–12"	✓	✓	✓			
12"				✓		
4" and 6"					✓	✓

BAHCO® RECIPROCATING SAW BLADES FOR METAL

BAHCO® BI-METAL BLADES FOR CUTTING METAL

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3940-100-14-ST-2P	4	100	0.035	0.9	14	2
3940-100-14-ST-5P	4	100	0.035	0.9	14	5
3940-100-14-ST-10P	4	100	0.035	0.9	14	10
3940-100-18-ST-2P	4	100	0.035	0.9	18	2
3940-100-18-ST-5P	4	100	0.035	0.9	18	5
3940-100-18-ST-10P	4	100	0.035	0.9	18	10
3940-150-14-ST-2P	6	150	0.035	0.9	14	2
3940-150-14-ST-5P	6	150	0.035	0.9	14	5
3940-150-14-ST-10P	6	150	0.035	0.9	14	10
3940-150-14-ST-100P	6	150	0.035	0.9	14	100
3940-150-18-ST-2P	6	150	0.035	0.9	18	2
3940-150-18-ST-5P	6	150	0.035	0.9	18	5
3940-150-18-ST-10P	6	150	0.035	0.9	18	10
3940-150-18-ST-100P	6	150	0.035	0.9	18	100
3940-228-14-ST-2P	9	228	0.035	0.9	14	2
3940-228-14-ST-5P	9	228	0.035	0.9	14	5
3940-228-14-ST-10P	9	228	0.035	0.9	14	10
3940-228-14-ST-100P	9	228	0.035	0.9	14	100
3940-228-18-ST-2P	9	228	0.035	0.9	18	2
3940-228-18-ST-5P	9	228	0.035	0.9	18	5
3940-228-18-ST-10P	9	228	0.035	0.9	18	10
3940-228-18-ST-100P	9	228	0.035	0.9	18	100
3940-300-14-ST-2P	12	300	0.035	0.9	14	2
3940-300-14-ST-5P	12	300	0.035	0.9	14	5
3940-300-14-ST-10P	12	300	0.035	0.9	14	10
3940-300-14-ST-100P	12	300	0.035	0.9	14	100
3940-300-18-ST-2P	12	300	0.035	0.9	18	2
3940-300-18-ST-5P	12	300	0.035	0.9	18	5
3940-300-18-ST-10P	12	300	0.035	0.9	18	10
3940-300-18-ST-100P	12	300	0.035	0.9	18	100

Features

- The metal blade family is designed for demanding metal cutting
- The standard-shaped (ST) blades with high performance and precision-ground teeth
- Standard-shape (ST) for fast and aggressive straight cuts but still flexible for narrow cutting

BAHCO® BI-METAL BLADES FOR METAL PRECISION CUTTING

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3940-100-14-SC-2P	4	100	0.035	0.9	14	2
3940-100-14-SC-5P	4	100	0.035	0.9	14	5
3940-100-18-SC-2P	4	100	0.035	0.9	18	2
3940-100-18-SC-5P	4	100	0.035	0.9	18	5
3940-100-24-SC-2P	4	100	0.035	0.9	24	2
3940-100-24-SC-5P	4	100	0.035	0.9	24	5

Features

- The Precision Metal scroll-shaped blades with high performance and precision-ground teeth
- Scroll (SC) shape for contour sawing and in difficult-to-reach places

WARNING

BAHCO® BI-METAL BLADES FOR CUTTING FINE METAL

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3940-100-24-ST-2P	4	100	0.035	0.9	24	2
3940-100-24-ST-5P	4	100	0.035	0.9	24	5
3940-100-24-ST-10P	4	100	0.035	0.9	24	10
3940-150-24-ST-2P	6	150	0.035	0.9	24	2
3940-150-24-ST-5P	6	150	0.035	0.9	24	5
3940-150-24-ST-10P	6	150	0.035	0.9	24	10
3940-150-24-ST-100P	6	150	0.035	0.9	24	100

Features

- The Fine Metal blade family is designed for metal cutting in thin materials
- The standard-shaped (ST) blades with high performance and precision-ground teeth
- Standard-shape (ST) for fast and aggressive straight cuts but still flexible for narrow cutting
- Slope-shaped nose for various types of cuts

BAHCO® BI-METAL BLADES FOR CUTTING HEAVY METAL

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3940-150-10-ST-2P	6	150	0.035	0.9	10	2
3940-150-10-ST-5P	6	150	0.035	0.9	10	5
3940-150-10-ST-10P	6	150	0.035	0.9	10	10
3940-150-10-ST-100P	6	150	0.035	0.9	10	100
3940-150-8/12-ST-2P	6	150	0.035	0.9	8/12	2
3940-150-8/12-ST-5P	6	150	0.035	0.9	8/12	5
3940-150-8/12-ST-10P	6	150	0.035	0.9	8/12	10
3940-150-8/12-ST-100P	6	150	0.035	0.9	8/12	100
3940-150-10-HST-2P	6	150	0.042	1.07	10	2
3940-150-10-HST-5P	6	150	0.042	1.07	10	5
3940-150-10-HST-10P	6	150	0.042	1.07	10	10
3940-150-14-HST-2P	6	150	0.042	1.07	14	2
3940-150-14-HST-5P	6	150	0.042	1.07	14	5
3940-150-14-HST-10P	6	150	0.042	1.07	14	10
3940-150-18-HST-2P	6	150	0.042	1.07	18	2
3940-150-18-HST-5P	6	150	0.042	1.07	18	5
3940-150-18-HST-10P	6	150	0.042	1.07	18	10
3940-228-10-ST-2P	9	228	0.035	0.9	10	2
3940-228-10-ST-5P	9	228	0.035	0.9	10	5
3940-228-10-ST-10P	9	228	0.035	0.9	10	10
3940-228-10-ST-100P	9	228	0.035	0.9	10	100
3940-228-10-HST-2P	9	228	0.042	1.07	10	2
3940-228-10-HST-5P	9	228	0.042	1.07	10	5
3940-228-10-HST-10P	9	228	0.042	1.07	10	10
3940-228-14-HST-2P	9	228	0.042	1.07	14	2
3940-228-14-HST-5P	9	228	0.042	1.07	14	5
3940-228-14-HST-10P	9	228	0.042	1.07	14	10
3940-228-18-HST-2P	9	228	0.042	1.07	18	2
3940-228-18-HST-5P	9	228	0.042	1.07	18	5
3940-228-18-HST-10P	9	228	0.042	1.07	18	10
3940-228-8/12-ST-2P	9	228	0.050	1.3	8/12	2
3940-228-8/12-ST-5P	9	228	0.050	1.3	8/12	5
3940-228-8/12-ST-10P	9	228	0.050	1.3	8/12	10
3940-228-8/12-ST-100P	9	228	0.050	1.3	8/12	100
3940-300-10-HST-2P	12	300	0.042	1.07	10	2
3940-300-10-HST-5P	12	300	0.042	1.07	10	5
3940-300-10-HST-10P	12	300	0.042	1.07	10	10
3940-300-14-HST-2P	12	300	0.042	1.07	14	2
3940-300-14-HST-5P	12	300	0.042	1.07	14	5
3940-300-14-HST-10P	12	300	0.042	1.07	14	10
3940-300-18-HST-2P	12	300	0.042	1.07	18	2
3940-300-18-HST-5P	12	300	0.042	1.07	18	5
3940-300-18-HST-10P	12	300	0.042	1.07	18	10

Features

- The Heavy Metal blade family is designed for demanding metal cutting in thick materials
- Heavy standard (HST) Bi-Metal blades with precision ground teeth are a series of extra thick blades with a wider body that makes it more rigid and has a higher resistance to fracturing and bending, allowing straighter cuts
- Standard (ST) Bi-Metal blades with coarse precision ground teeth are a series of flexible blades with a standard body that makes it more flexible and easy to bend into position

BAHCO® RECIPROCATING SAW BLADES FOR WOOD & METAL

MADE FOR BOTH THE EMERGENCY SERVICES AND PROFESSIONAL CRAFTSMEN

BAHCO® BI-METAL BLADES FOR CUTTING WOOD AND METAL

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3940-150-6-ST-2P	6	150	0.035	0.9	6	2
3940-150-6-ST-5P	6	150	0.035	0.9	6	5
3940-150-6-ST-10P	6	150	0.035	0.9	6	10
3940-150-4/6-SC-2P	6	150	0.050	1.3	4/6	2
3940-150-4/6-SC-5P	6	150	0.050	1.3	4/6	5
3940-150-4/6-SC-10P	6	150	0.050	1.3	4/6	10
3940-150-5/8-SL-2P	6	150	0.050	1.3	5/8	2
3940-150-5/8-SL-5P	6	150	0.050	1.3	5/8	5
3940-150-5/8-SL-10P	6	150	0.050	1.3	5/8	10
3940-150-5/8-SL-100P	6	150	0.050	1.3	5/8	100
3940-228-6-SL-2P	9	228	0.050	1.3	6	2
3940-228-6-SL-5P	9	228	0.050	1.3	6	5
3940-228-6-SL-10P	9	228	0.050	1.3	6	10
3940-300-6-SL-2P	12	300	0.050	1.3	6	2
3940-300-6-SL-5P	12	300	0.050	1.3	6	5
3940-300-6-SL-10P	12	300	0.050	1.3	6	10
3940-300-8/12-SL-2P	12	300	0.050	1.3	8/12	2
3940-300-8/12-SL-5P	12	300	0.050	1.3	8/12	5
3940-300-8/12-SL-10P	12	300	0.050	1.3	8/12	10
3940-300-8/12-SL-100P	12	300	0.050	1.3	8/12	100

Features

- The Wood and Metal blade family is designed for demanding cutting in wood, even with embedded nails, but it can also be used for thick metal materials
- Slope-shaped (SL) Bi-Metal blades with precision ground teeth are a series of thicker blades with a narrow nose that makes it accessible in narrow places but still rigid and has a higher resistance to fracturing and bending, allowing straighter cuts
- Standard (ST) Bi-Metal blades with coarse precision ground teeth are a series of flexible blades with standard body that makes it more flexible and easy to bend into position

⚠WARNING

BAHCO® BI-METAL BLADES FOR FIRE AND RESCUE

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3940-228-10-DSL-2P	9	228	0.062	1.6	10	2
3940-228-10-DSL-5P	9	228	0.062	1.6	10	5
3940-228-10-DSL-10P	9	228	0.062	1.6	10	10

Features

- The Fire & Rescue bi-metal blade with precision ground teeth is an extra heavy duty blade for metal/demolition applications, to be used in extreme conditions

BAHCO® BI-METAL BLADES FOR DEMOLITION

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3940-150-5/8-DSL-2P	6	150	0.062	1.6	5/8	2
3940-150-5/8-DSL-5P	6	150	0.062	1.6	5/8	5
3940-150-5/8-DSL-10P	6	150	0.062	1.6	5/8	10
3940-228-5/8-DSL-2P	9	228	0.062	1.6	5/8	2
3940-228-5/8-DSL-5P	9	228	0.062	1.6	5/8	5
3940-228-5/8-DSL-10P	9	228	0.062	1.6	5/8	10
3940-300-5/8-DSL-2P	12	300	0.062	1.6	5/8	2
3940-300-5/8-DSL-5P	12	300	0.062	1.6	5/8	5
3940-300-5/8-DSL-10P	12	300	0.062	1.6	5/8	10

Features

- The Sandflex® Demolition slope (DSL) Bi-Metal blades are a series of extra thick and wide saw blades for demolition and heavy-duty work
- Perfect for nail-embedded wood

BAHCO® BI-METAL BLADES FOR PALLET REPAIR

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3940-228-10/14-PR09-10P	9	228	0.035	0.9	10/14	10
3940-228-10/14-PR09-100P	9	228	0.035	0.9	10/14	100
3940-228-10/14-PR13-100P	9	228	0.035	0.9	10/14	100
3940-228-8/12-PR13-100P	9	228	0.050	1.3	8/12	100

Features

- The pallet repair blade is developed in close co-operation with pallet repair shops
- The unique front design prevents the blade front from getting stuck in close by wood beams when cutting nails in damaged parts of the pallet
- By increasing the shank radius we have improved the fatigue strength
- 10/14 TPI has proved to be the most popular toothing amongst users in pallet repair shops. This toothing has good material removal rate in wood with nails and high strength to tooth breakage

BAHCO® RECIPROCATING SAW BLADES FOR WOOD & PLASTIC

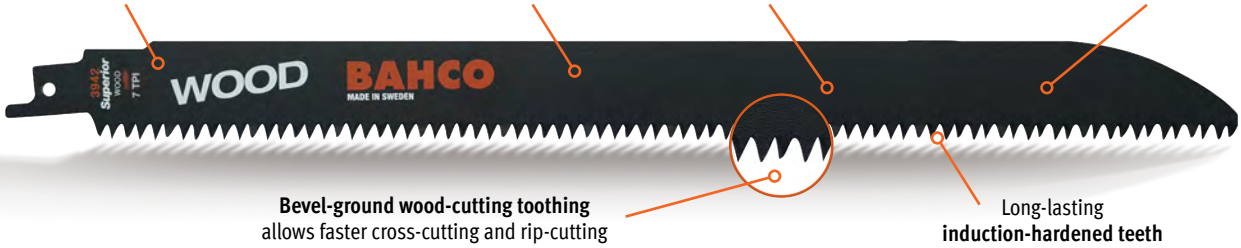
SPECIAL TOOTHING FOR FAST CROSS-CUTTING AND RIPPING

Simple saw blade selection thanks to the printed material information

Strong high-carbon steel blades

Improved blade design based on the application

Low-friction coating minimises heat generation



Bevel-ground wood-cutting toothing allows faster cross-cutting and rip-cutting

Long-lasting **induction-hardened teeth**

BAHCO® HIGH CARBON STEEL BLADES FOR CUTTING WOOD

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3942-228-7-HSL-2P	9	228	0.039	1	7	2
3942-228-7-HSL-5P	9	228	0.039	1	7	5
3942-228-7-HSL-10P	9	228	0.039	1	7	10
3942-300-7-HSL-2P	12	300	0.039	1	7	2
3942-300-7-HSL-5P	12	300	0.039	1	7	5
3942-300-7-HSL-10P	12	300	0.039	1	7	10

Features

- Unique bevel-ground teeth provide a quick cut and deliver the best results in wood
- The blade is made of High Carbon Steel and the teeth are induction hardened for a very long life before being coated for minimum friction
- The toothing allows considerably faster cutting compared to traditional blades; 7 for all-round wood cut

BAHCO® HIGH CARBON STEEL BLADES FOR CUTTING COARSE WOOD

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3942-228-5-HSL-2P	9	228	0.039	1	5	2
3942-228-5-HSL-5P	9	228	0.039	1	5	5
3942-228-5-HSL-10P	9	228	0.039	1	5	10
3942-300-5-HSL-2P	12	300	0.039	1	5	2
3942-300-5-HSL-5P	12	300	0.039	1	5	5
3942-300-5-HSL-10P	12	300	0.039	1	5	10

Features

- Unique bevel-ground teeth provide a quick cut and deliver the best results in coarse wood
- The toothing allows considerably faster cutting compared to traditional blades; 5 for coarse and very fast cuts

BAHCO® HIGH CARBON STEEL BLADES FOR CUTTING WOOD & PLASTIC

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3942-228-11-HSL-2P	9	228	0.039	1	11	2
3942-228-11-HSL-5P	9	228	0.039	1	11	5
3942-228-11-HSL-10P	9	228	0.039	1	11	10

Features

- The blade is made of High Carbon Steel and the teeth are induction hardened for a very long life before being coated for minimum friction
- Unique bevel-ground teeth provide a quick cut and deliver the best results in wood and plastic
- The toothing allows considerably faster cutting compared to traditional blades; 11 for fine cut

⚠WARNING

BAHCO® BI-METAL BLADES FOR CUTTING PLASTER AND BOARDS

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3942-150-7-SL-2P	6	150	0.043	1.1	7	2
3942-150-7-SL-5P	6	150	0.043	1.1	7	5
3942-150-7-SL-10P	6	150	0.043	1.1	7	10
3942-228-7-SL-2P	9	228	0.043	1.1	7	2
3942-228-7-SL-5P	9	228	0.043	1.1	7	5
3942-228-7-SL-10P	9	228	0.043	1.1	7	10
3942-300-7-SL-2P	12	300	0.043	1.1	7	2
3942-300-7-SL-5P	12	300	0.043	1.1	7	5
3942-300-7-SL-10P	12	300	0.043	1.1	7	10

Features

- The Plaster and Board Bi-Metal blade is designed for demanding cutting in both plaster and different types of wooden chip boards
- Slope (SL) shape for various types of cuts
- The toothing allows considerably faster cutting compared to traditional blades
- The blade is coated for minimum friction

BAHCO® RECIPROCATING SAW BLADES FOR FOR SPECIAL APPLICATIONS

SPECIALIZED BLADES FOR INDUSTRY-SPECIFIC APPLICATIONS

BAHCO® STAINLESS STEEL BLADES FOR CUTTING MEAT AND ICE

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3944-300-3-MEAT-1P	12	300	0.049	1.25	3	1

Features

- Reciprocating blade made for cutting meat/bone and frozen materials

BAHCO® BI-METAL CAR BODY SAW BLADES

Product Code	Length (inch)	Material Thickness Capacity (Inches)	Teeth per inch	Pack QTY
3845-18-10P	3 1/2	Over 0.20	18	10
3845-18-100P – Bulk	3 1/2	Over 0.20	18	100
3845-24-10P	3 1/2	0.08 to 0.20	24	10
3845-24-100P – Bulk	3 1/2	0.08 to 0.20	24	100
3845-32-10P	3 1/2	0 to 0.08	32	10
3845-32-100P – Bulk	3 1/2	0 to 0.08	32	100

- Car-body saw blades for pneumatic or electric reciprocating body shop saws
- Mainly used in automotive body shops
- Bulk packed for heavy usage applications

BAHCO® RECIPROCATING CARBIDE-TIPPED SAW BLADES

BLADES FOR HEAVY-DUTY APPLICATIONS

Simple saw blade selection thanks to the printed material information

Highly-resistant body allows straighter cuts even at heavy-duty work

Improved blade design based on the application

Carbide teeth withstand heat and can work long under extreme conditions

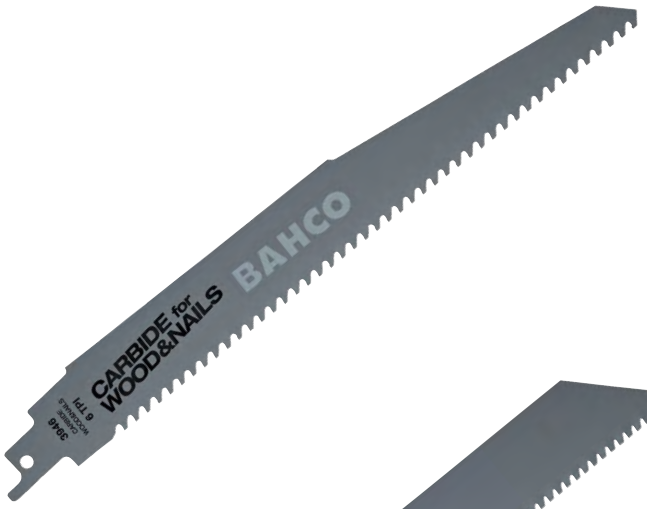
Sharp, long-life teeth carbide technology

BAHCO® CARBIDE TIPPED BLADES FOR WOOD WITH NAIL AND WALL DEMOLITION

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3946-150-6-DSL-1P	6	150	0.050	1.3	6	1
3946-228-6-DSL-1P	9	228	0.050	1.3	6	1
3946-300-6-DSL-1P	12	300	0.050	1.3	6	1

Features

- Demolition shape extra thick and wide saw blades for demolition and heavy duty work
- Long life with high performance due to the carbide teeth design, making it suitable for work in extreme conditions
- Universal shank - fits any type reciprocating saw
- Carbide tipped blades withstand heat and work long under extreme conditions

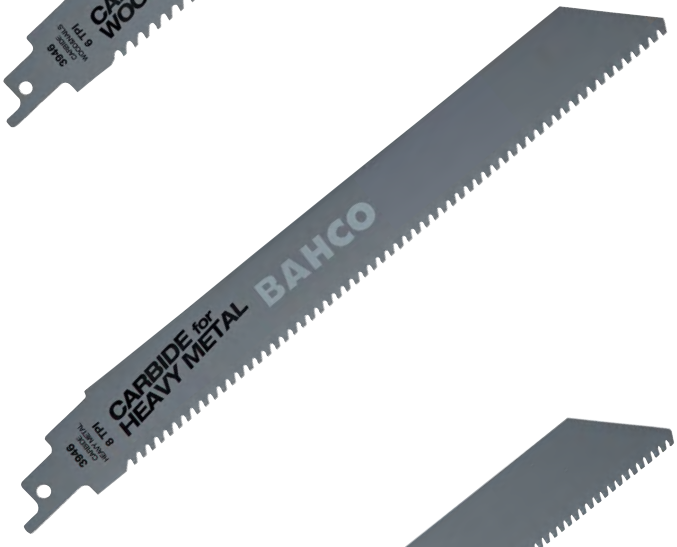


BAHCO® CARBIDE TIPPED BLADES FOR DEMANDING METAL CUTTING

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3946-150-8-HST-1P	6	150	0.050	1.3	8	1
3946-228-8-HST-1P	9	228	0.050	1.3	8	1
3946-300-8-HST-1P	12	300	0.050	1.3	8	1

Features

- Heavy standard shape's wide body makes it highly resistant to bending, allowing straighter cuts even in heavy duty work
- Long life with high performance due to the carbide teeth design, making it suitable for work in extreme conditions
- Universal shank - fits any type reciprocating saw
- Blades are suitable for applications with high-strength steel and for tubes or profiles 5/32 to 1/2" thick



BAHCO® CARBIDE TIPPED BLADES FOR DEMANDING STAINLESS STEEL CUTTING

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3946-150-10-HST-1P	6	150	0.050	1.3	10	1
3946-228-10-HST-1P	9	228	0.050	1.3	10	1
3946-300-10-HST-1P	12	300	0.050	1.3	10	1

Features

- Heavy standard shape's wide body makes it highly resistant to bending, allowing straighter cuts even in heavy duty work
- Long life with high performance due to the carbide teeth design, making it suitable for work in extreme conditions
- Universal shank - fits any type reciprocating saw
- Blades are suitable for cutting stainless steel and tubes or profiles 3/16 to 3/8" thick

⚠WARNING

BAHCO® DIAMOND GRIT BLADES FOR CUTTING WOOD, CAST IRON AND CERAMIC

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3946-100-DG-ST-2P	4	100	0.050	1.2	Grit	1
3946-150-DG-ST-2P	6	150	0.050	1.2	Grit	1

Features

- Standard Shep for fast and aggressive straight cuts, but still flexible for narrow cutting
- Special design to cut Cement Cast Iron and the only blade that can cut pipes from cemented case iron
- Diamond grip blades withstand heat and can work in extreme conditions
- Universal shank - fits any type reciprocating saw

BAHCO® CARBIDE GRIT BLADES FOR CUTTING TILE AND GLASS

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3946-100-G-ST-2P	4	100	0.035	0.9	Grit	2
3946-150-G-ST-2P	6	150	0.035	0.9	Grit	2

Features

- Carbide Grit for cutting hard materials such as tiles, ceramics and glass Shape Standard (ST)

BAHCO® CARBIDE TIPPED BLADES FOR DEMANDING BRICK CUTTING

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3946-300-2-CB-1P	6	300	0.06	1.5	CB	1
3946-457-2-CB-1P	18	457	0.06	1.5	CB	1

Features

- Special blade design with an extra wide body that makes it highly resistant to bending, allowing straight cuts
- Designed for cutting through the roughest abrasive materials such as bricks, LECA and aerated concrete
- Universal shank - fits any type reciprocating saw

BAHCO® CARBIDE TIPPED BLADES FOR CUTTING STONE MATERIALS

Product Code	Blade-length (inch)	Blade-length (mm)	Blade-thickness (inch)	Blade-thickness (mm)	Teeth per inch	Pack QTY
3946-150-6-SL-1P	6	150	0.035	0.9	6	1
3946-228-3-ST-1P	9	228	0.035	0.9	3	1
3946-228-6-ST-1P	9	228	0.050	1.3	6	1
3946-300-3-ST-1P	12	300	0.060	1.5	3	1
3946-300-6-ST-1P	12	300	0.050	1.3	6	1

Features

- A new wide range of 3 and 6 TPI carbide tipped blades for cutting of non-ferrous materials such as lightweight concrete, bricks, fiberglass
- Comes in two shapes, Slope (SL) shape for various types of cuts and Standard (ST) shape for fast and aggressive straight cuts
- Universal shank - fits any type reciprocating saw

BAHCO® 7 PIECE SOFT GRIP PUNCH AND CHISEL SET

Soft Grip

Product Code	Description
3654BMS/7	7 Piece Soft Grip Punch and Chisel Set

Contents Include:

Description	Point Diameter	Description	Point Diameter
Pin Punch	1/16	Chisels	5/8
Pin Punch	1/8	Chisels	3/4
Pin Punch	3/16	Center	1/4
Pin Punch	1/4		

3654BMS/7

BAHCO® 7 PIECE SOFT GRIP PIN PUNCH SET

Soft Grip

Product Code	Description
3734BMS/7	7 Piece Soft Grip Pin Punch Set

Contents Include:

Description	Point Diameter	Description	Point Diameter
Pin Punch	1/16	Pin Punch	1/4
Pin Punch	1/8	Pin Punch	5/16
Pin Punch	3/16	Pin Punch	3/8
Pin Punch	3/16		

Features

- Soft grip handle provides a powerful grip, is more comfortable in cold work environments and reduces strike vibration
- Semispherical striking area controls mushrooming to help reduce chipping and splitting
- Cutting edges on chisels are hand ground to consistently produce a quality edge
- Black oxide coated
- Manufactured from special alloy steel that is differentially heat treated to increase durability

3734BMS/7

BAHCO® POINTED CHISELS

Safety impact head

Product Code	Length (Inches)
3739H-250	10
3739H-300	12
3739H-400	15 ½

Features

- Safety impact head with plastic hand protection

3739H

BAHCO® SLITTING CHISEL

Safety impact head

Product Code	Length (Inches)
3750H	10

Features

- Safety impact head with plastic hand protection

3750H

BAHCO® MASON'S CHISEL

Safety impact head

Product Code	Length (Inches)	Tip Width (Inches)
3736MH-250	10"	1"
3736MH-300	12	1"
3736MH-400	15 ½	1"

Features

- Safety impact head with plastic hand protection

3736MH

⚠WARNING

1-476-04-3-2

BAHCO® ERGO™ 6 PIECE ENGINEERING FILE SET

With Bi-Molded ERGO™ Handle

Product Code	Description
1-476-04-3-2	6 Piece Engineering File Set

Contents Include:

Description	Length (Inch)	Type of Cut
Hand Smooth	4	Smooth
Warding Smooth	4	Smooth
Square Smooth	4	Smooth
Three Square Smooth	4	Smooth
Half Round Smooth	4	Smooth
Round Smooth	4	Smooth

Features

- Files are smooth, double cut and designed for the fine filing and polishing applications
- Supplied with pouch

1-478-08-1-2

BAHCO® ERGO™ 5 PIECE ENGINEERING FILE SET

With Bi-Molded ERGO™ Handle

Product Code	Description
1-478-08-1-2	5 Piece Engineering File Set

Contents Include:

Description	Length (Inch)	Type of Cut
Hand Bastard	8	Bastard
Hand Second	8	Second
Square Bastard	8	Bastard
Half Round Bastard	8	Bastard
Round Bastard	8	Bastard

Features

- Files are coarse, double cut and designed for high removal rate
- Supplied with pouch

1-473-06-2-2

BAHCO® ERGO™ 3 PIECE ENGINEERING FILE SET

With Bi-Molded ERGO™ Handle

Product Code	Description
1-473-06-2-2	3 Piece Engineering File Set

Contents Include:

Description	Length (Inch)	Type of Cut
Hand Second	8	Second
Half Round Second	8	Second
Round Second	8	Second

Features

- Files are medium coarse, double cut and designed for high removal rate
- Supplied with pouch

BAHCO® NEEDLE FILE SETS

Product Code	# of Pieces	Length (Inch)	Teeth Per Inch (TPI)	Type of Cut
2-472-14-2-0	12	5 ½	97	Smooth
2-472-16-0-0	12	6 ¼	64	Bastard
2-472-16-1-0	12	6 ¼	79	Second
2-472-16-2-0	12	6 ¼	97	Smooth
2-471-16-1-0	9	6 ¼	79	Second
2-470-14-2-0	6	5 ½	97	Smooth
2-470-14-4-0	6	5 ½	142	Dead Smooth
2-470-16-1-0	6	6 ¼	79	Second

Features

- Files in snap shut plastic wallet with hanging hole
- Includes one handle 9-488-02-10
- 12 Piece contains one file each of: hand, flat, three square, square, half round, crossing, round, knife, barrette, slitting, round-edge joint and marking
- 9 Piece contains one file each of: hand, flat, half round, round, three square, square, oval, crossing, knife
- 6 Piece contains one file each of: hand, flat, half round, round, three square and square

2-470-14-2-0

2-471-16-1-0

2-472-14-2-0

BAHCO® ERGO™ HOMEOWNER'S FILE SET

With Bi-Molded ERGO™ Handle

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Type of Cut
4-154-08-2-2	8	1	5/32	Bastard + Second

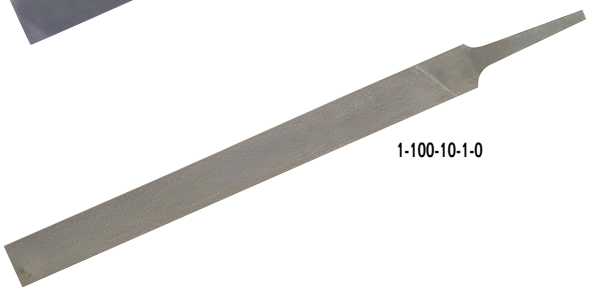
Features

- Set contains one 4-152 Homeowner's file for wood and one 4-153 Homeowner's file for metal

4-154-08-2-2

⚠WARNING

1-100-10-1-2



1-100-10-1-0

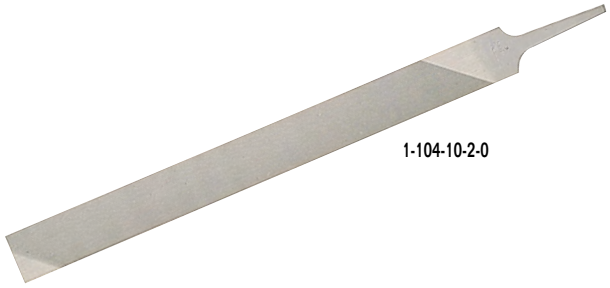
BAHCO® ERGO™ MILL FILE (USA TYPE)- TWO FLAT EDGES

Hand File

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
With Bi-Molded ERGO™ Handle					
1-100-06-1-2	6	5/8	5/32	30	Bastard
1-100-06-2-2	6	5/8	5/32	43	Second
1-100-08-1-2	8	25/32	13/64	25	Bastard
1-100-10-1-2	10	1	7/32	23	Bastard
1-100-10-2-2	10	1	7/32	30	Second
Without handle					
1-100-04-1-0	4	15/32	1/8	38	Bastard
1-100-04-2-0	4	15/32	1/8	53	Second
1-100-04-3-0	4	15/32	1/8	74	Smooth
1-100-06-1-0	6	5/8	5/32	30	Bastard
1-100-06-2-0	6	5/8	5/32	43	Second
1-100-06-3-0	6	5/8	5/32	61	Smooth
1-100-08-1-0	8	25/32	13/64	25	Bastard
1-100-08-2-0	8	25/32	13/64	38	Second
1-100-08-3-0	8	25/32	13/64	53	Smooth
1-100-10-1-0	10	1	7/32	23	Bastard
1-100-10-2-0	10	1	7/32	30	Second
1-100-10-3-0	10	1	7/32	45	Smooth
1-100-12-1-0	12	1 3/16	5/64	18	Bastard
1-100-12-2-0	12	1 3/16	5/64	25	Second
1-100-12-3-0	12	1 3/16	5/64	38	Smooth
1-100-14-1-0	14	1 3/8	15/64	15	Bastard
1-100-14-2-0	14	1 3/8	15/64	23	Second
1-100-14-3-0	14	1 3/8	15/64	30	Smooth

Features

- For filing flat surfaces, sharp corners and shoulders as well as for deburring
- To work in high-alloy tool steels, for sharpening of heavy implements
- File surfaces are double cut while the edges have one side single cut and one side uncut



1-104-10-2-0

BAHCO® LATHE FILE

Engineering File

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
1-104-10-2-0	10	31/32	7/32	30	Second
1-104-10-3-0	10	31/32	7/32	43	Smooth
1-104-12-2-0	12	15/32	1 11/64	25	Second
1-104-12-3-0	12	15/32	15/64	36	Smooth
1-104-14-3-0	14	13/8	15/64	30	Smooth

Features

- For polishing and deburring work in lathes
- Releases chips easily and produces smooth surfaces
- File surface is single cut while edges are uncut

1-106-08-1-2

1-106-08-1-0

BAHCO® ERGO™ HAND FILE

Engineering File

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
With Bi-Molded ERGO™ Handle					
1-106-08-1-2	8	25/32	13/64	25	Bastard
1-106-10-1-2	10	31/32	13/64	23	Bastard
Without handle					
1-106-08-1-0	8	25/32	13/64	25	Bastard
1-106-10-1-0	10	31/32	13/64	23	Bastard
1-106-12-1-0	12	3/16	13/16	18	Bastard

Features

- For polishing and deburring work in lathes
- Releases chips easily and produces smooth surfaces
- File surface is oberg cut while the edges have one side single cut and one side uncut

BAHCO® ERGO™ FLAT FILE

Engineering File

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
With Bi-Molded ERGO™ Handle					
1-110-08-1-2	8	25/32	13/64	25	Bastard
1-110-08-2-2	8	25/32	13/64	38	Second
1-110-10-1-2	10	1	7/32	23	Bastard
1-110-10-2-2	10	1	7/32	30	Second
1-110-10-3-2	10	1	7/32	43	Smooth
Without handle					
1-110-04-1-0	4	15/32	1/8	38	Bastard
1-110-04-2-0	4	15/32	1/8	53	Second
1-110-04-3-0	4	15/32	1/8	74	Smooth
1-110-06-1-0	6	5/8	5/32	30	Bastard
1-110-06-2-0	6	5/8	5/32	43	Second
1-110-06-3-0	6	5/8	5/32	61	Smooth
1-110-08-1-0	8	25/32	13/64	25	Bastard
1-110-08-2-0	8	25/32	13/64	38	Second
1-110-08-3-0	8	25/32	13/64	53	Smooth
1-110-10-1-0	10	1	7/32	23	Bastard
1-110-10-2-0	10	1	7/32	30	Second
1-110-10-3-0	10	1	7/32	43	Smooth
1-110-12-1-0	12	1 3/16	15/64	18	Bastard
1-110-12-2-0	12	1 3/16	15/64	25	Second
1-110-12-3-0	12	1 3/16	15/64	38	Smooth
1-110-14-1-0	14	1 3/8	15/64	38	Bastard

Features

- Pointed shape enables user to reach into angles and corners
- Edges are tapered towards the point with surfaces being parallel
- File surfaces is double cut while the edges are single cut

1-110-08-1-2

1-110-08-1-0

BAHCO® WARDING FILE

Engineering File

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
Without handle					
1-111-04-1-0	4	25/64	3/64	43	Bastard
1-111-04-2-0	4	25/64	3/64	53	Second
1-111-04-3-0	4	25/64	3/64	74	Smooth
1-111-06-1-0	6	19/32	5/64	38	Bastard
1-111-06-2-0	6	19/32	5/64	43	Second
1-111-06-3-0	6	19/32	5/64	61	Smooth
1-111-08-1-0	8	3/4	3/32	30	Bastard
1-111-08-2-0	8	3/4	3/32	38	Second
1-111-08-3-0	8	3/4	3/32	53	Smooth

Features

- Designed for filing narrow grooves, and passages such as filing cuts on keys
- Edges are tapered towards the point with surfaces being parallel
- File surfaces is double cut while the edges are single cut

1-111-08-1-0

⚠WARNING

1-143-10-1-2

1-143-10-1-0

BAHCO® ERGO™ MILL FILE (USA TYPE)- TWO FLAT EDGES

Engineering File

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
With Bi-Molded ERGO™ Handle					
1-143-06-1-2	6	5/8	7/64	48	Bastard
1-143-06-2-2	6	5/8	7/64	53	Second
1-143-08-1-2	8	25/32	1/8	44	Bastard
1-143-10-1-2	10	1	1 43/64	40	Bastard
1-143-10-2-2	10	1	5/32	44	Second
Without handle					
1-143-04-1-0	4	7/16	5/64	53	Bastard
1-143-04-2-0	4	7/16	5/64	62	Second
1-143-04-3-0	4	7/16	5/64	75	Smooth
1-143-06-1-0	6	5/8	7/64	48	Bastard
1-143-06-2-0	6	5/8	7/64	53	Second
1-143-06-3-0	6	5/8	7/64	62	Smooth
1-143-08-1-0	8	25/32	1/8	44	Bastard
1-143-08-2-0	8	25/32	1/8	48	Second
1-143-08-3-0	8	25/32	1/8	57	Smooth
1-143-10-1-0	10	1	5/32	40	Bastard
1-143-10-2-0	10	1	5/32	44	Second
1-143-10-3-0	10	1	5/32	53	Smooth
1-143-12-1-0	12	1 13/16	3/16	37	Bastard
1-143-12-2-0	12	1 13/16	3/16	40	Second
1-143-12-3-0	12	1 13/16	3/16	48	Smooth

Features

- Surfaces and edges are single cut
- Suitable for engineering and sharpening file applications
- Can be used for polishing and deburring work in lathes
- Widely used for sharpening tools and implements such as spades, shovels, hoes, scrapers, etc.

1-145-12-0-0

BAHCO® PLASTIC CUT FILE

Engineering File

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
Without handle					
1-145-12-0-0	12	31/32	13/64	39	Smooth
1-145-14-0-0	14	1 11/64	3/16	23	Second

Features

- Designed for fast and easy cutting on plastic laminates
- Excellent for edge finishing
- Single cut

BAHCO® ERGO™ SQUARE FILE

Engineering File

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
With Bi-Molded ERGO™ Handle					
1-160-06-1-2	6	15/32	15/64	33	Bastard
1-160-06-2-2	6	15/32	15/64	46	Second
1-160-08-1-2	8	5/16	5/16	25	Bastard
1-160-08-2-2	8	5/16	5/16	36	Second
1-160-10-1-2	10	25/64	23/64	23	Bastard
Without handle					
1-160-04-1-0	4	11/64	11/64	43	Bastard
1-160-04-2-0	4	11/64	11/64	56	Second
1-160-04-3-0	4	11/64	11/64	71	Smooth
1-160-06-1-0	6	15/32	15/64	33	Bastard
1-160-06-2-0	6	15/32	15/64	46	Second
1-160-06-3-0	6	15/32	15/64	56	Smooth
1-160-08-1-0	8	5/16	5/16	25	Bastard
1-160-08-2-0	8	5/16	5/16	36	Second
1-160-08-3-0	8	5/16	5/16	46	Smooth
1-160-10-1-0	10	25/64	23/64	23	Bastard
1-160-10-2-0	10	25/64	23/64	30	Second
1-160-10-3-0	10	25/64	23/64	41	Smooth
1-160-12-1-0	12	15/32	15/32	20	Bastard
1-160-12-2-0	12	15/32	15/32	28	Second

Features

- Designed for filing grooves, rectangular holes, inside corners and for fine-adjustments of cutting tools
- Surfaces are tapered towards the point and has a double cut

1-160-10-1-2

1-160-10-1-0

BAHCO® ERGO™ THREE SQUARE FILE

Engineering File

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
With Bi-Molded ERGO™ Handle					
1-170-06-1-2	6	7/16	7/16	33	Bastard
1-170-06-2-2	6	7/16	7/16	46	Second
1-170-08-1-2	8	5/8	5/8	25	Bastard
1-170-08-2-2	8	5/8	5/8	36	Second
1-170-10-1-2	10	11/16	11/16	23	Bastard
1-170-10-3-2	10	11/16	11/16	41	Smooth
Without handle					
1-170-04-3-0	4	1/4	1/4	71	Smooth
1-170-06-1-0	6	7/16	7/16	33	Bastard
1-170-06-2-0	6	7/16	7/16	46	Second
1-170-06-3-0	6	7/16	7/16	56	Smooth
1-170-08-1-0	8	5/8	5/8	25	Bastard
1-170-08-2-0	8	5/8	5/8	36	Second
1-170-08-3-0	8	5/8	5/8	46	Smooth
1-170-10-1-0	10	11/16	11/16	23	Bastard
1-170-10-2-0	10	11/16	11/16	30	Second
1-170-10-3-0	10	11/16	11/16	41	Smooth

Features

- Ideal for deburring and filing angles and inner corners. Can be used for filing of holes, large fillets and concave surfaces
- Shaped in an equilateral triangle that tapers towards the point and has double surface cuts

1-170-10-1-2

1-170-10-1-0

⚠WARNING

BAHCO® ERGO™ HALF-ROUND FILE

Engineering File

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
With Bi-Molded ERGO™ Handle					
1-210-06-1-2	6	5/8	3/16	33	Bastard
1-210-06-2-2	6	5/8	5/8	46	Second
1-210-06-3-2	6	5/8	5/8	56	Smooth
1-210-08-1-2	8	13/16	13/16	25	Bastard
1-210-08-2-2	8	13/16	13/16	36	Second
1-210-10-1-2	10	1 3/64	1 3/64	23	Bastard
1-210-10-2-2	10	1 3/64	1 3/64	30	Second
1-210-12-1-2	12	1 7/32	1 7/32	20	Bastard
1-210-12-2-2	12	17/32	17/32	28	Second
Without handle					
1-210-04-1-0	4	25/64	1/8	43	Bastard
1-210-04-2-0	4	25/64	1/8	56	Second
1-210-04-3-0	4	25/64	1/8	71	Smooth
1-210-06-1-0	6	5/8	3/16	33	Bastard
1-210-06-2-0	6	5/8	5/8	46	Second
1-210-06-3-0	6	5/8	5/8	56	Smooth
1-210-08-1-0	8	13/16	13/16	25	Bastard
1-210-08-2-0	8	13/16	13/16	36	Second
1-210-08-3-0	8	13/16	13/16	46	Smooth
1-210-10-1-0	10	1 3/64	1 3/64	23	Bastard
1-210-10-2-0	10	1 3/64	1 3/64	30	Second
1-210-10-3-0	10	1 3/64	1 3/64	41	Smooth
1-210-12-1-0	12	1 7/32	1 7/32	20	Bastard
1-210-12-2-0	12	1 7/32	1 7/32	28	Second
1-210-12-3-0	12	1 7/32	1 7/32	36	Smooth
1-210-14-1-0	14	1 3/8	1 3/8	18	Bastard

Features

- Used for filing concave and flat surfaces as well as large holes and deburring requirements
- Edges and surfaces are tapered towards the point and has double surface cuts

1-210-10-1-0

1-210-10-1-2

1-230-10-1-2

1-230-10-1-0

BAHCO® ERGO™ ROUND FILE

Engineering File

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
With Bi-Molded ERGO™ Handle					
1-230-06-1-2	6	15/32	-	33	Bastard
1-230-06-2-2	6	15/32	-	46	Second
1-230-08-1-2	8	5/16	-	25	Bastard
1-230-08-2-2	8	5/16	-	36	Second
1-230-10-1-2	10	25/64	-	23	Bastard
1-230-10-2-2	10	25/64	-	30	Second
1-230-10-3-2	10	25/64	-	41	Smooth
Without handle					
1-230-04-1-0	4	9/64	-	43	Bastard
1-230-04-2-0	4	9/64	-	56	Second
1-230-04-3-0	4	9/64	-	71	Smooth
1-230-06-1-0	6	15/32	-	33	Bastard
1-230-06-2-0	6	15/32	-	46	Second
1-230-06-3-0	6	15/32	-	56	Smooth
1-230-08-1-0	8	5/16	-	25	Bastard
1-230-08-2-0	8	5/16	-	36	Second
1-230-08-3-0	8	5/16	-	46	Smooth
1-230-10-1-0	10	25/64	-	23	Bastard
1-230-10-2-0	10	25/64	-	30	Second
1-230-10-3-0	10	25/64	-	41	Smooth
1-230-12-1-0	12	15/32	-	20	Bastard
1-230-12-2-0	12	15/32	-	28	Second
1-230-12-3-0	12	15/32	-	36	Smooth

Features

- Regularly used for filing holes, large fillets and concave surfaces
  File is tapered to a point and has a double cut

BAHCO® HAND NEEDLE FILES

Product Code	Length (Inch)	Teeth Per Inch (TPI)	Type of Cut
Without handle			
2-300-14-0-0	5 ½	56	Bastard
2-300-14-2-0	5 ½	86	Smooth
2-300-14-4-0	5 ½	122	Dead Smooth
2-300-16-0-0	6 ¼	56	Bastard
2-300-16-1-0	6 ¼	66	Second
2-300-16-2-0	6 ¼	86	Smooth
2-300-16-4-0	6 ¼	122	Dead Smooth
2-300-18-0-0	7	56	Bastard
2-300-18-2-0	7	86	Smooth

Features

- Perfect for fine filing and polishing jobs
- Used by engravers, precision engineers, instrument makers, watchmakers and goldsmiths
- Edges and surfaces are parallel
- Surfaces double cut, edges single cut

BAHCO® FLAT NEEDLE FILES

Product Code	Length (Inch)	Teeth Per Inch (TPI)	Type of Cut
Without handle			
2-301-14-0-0	5 ½	56	Bastard
2-301-14-2-0	5 ½	86	Smooth
2-301-14-4-0	5 ½	122	Dead Smooth
2-301-16-0-0	6 ¼	56	Bastard
2-301-16-1-0	6 ¼	66	Second
2-301-16-2-0	6 ¼	86	Smooth
2-301-16-4-0	6 ¼	122	Dead Smooth
2-301-18-2-0	7	86	Smooth

Features

- Perfect for fine filing and polishing jobs
- Used by engravers, precision engineers, instrument makers, watchmakers and goldsmiths
- Surfaces parallel, edges taper to a point
- Surfaces double cut, edges single cut

BAHCO® THREE SQUARE NEEDLE FILES

Product Code	Length (Inch)	Teeth Per Inch (TPI)	Type of Cut
Without handle			
2-302-14-0-0	5 ½	56	Bastard
2-302-14-2-0	5 ½	86	Smooth
2-302-14-4-0	5 ½	102	Dead Smooth
2-302-16-0-0	6 ¼	56	Bastard
2-302-16-1-0	6 ¼	66	Second
2-302-16-2-0	6 ¼	86	Smooth
2-302-16-4-0	6 ¼	122	Dead Smooth
2-302-18-0-0	7	56	Bastard
2-302-18-2-0	7	86	Smooth

Features

- Perfect for fine filing and polishing jobs. Used by engravers, precision engineers, instrument makers, watchmakers and goldsmiths
- Triangular, surfaces taper to a point
- Surfaces double cut

2-300-14-0-0

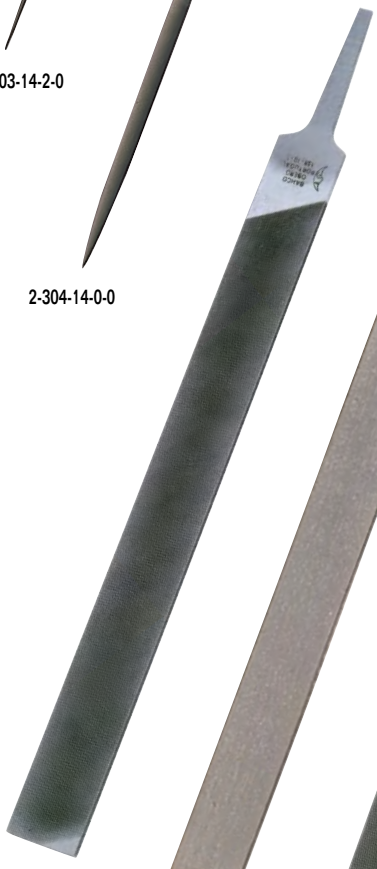
2-301-14-0-0

2-302-14-0-0

⚠WARNING

2-303-14-2-0

2-304-14-0-0



4-138-10-1-0

4-140-10-1-0

4-150-07-3-0

BAHCO® SQUARE NEEDLE FILES

Product Code	Length (Inch)	Teeth Per Inch (TPI)	Type of Cut
Without handle			
2-303-14-2-0	5 ½	86	Smooth
2-303-14-4-0	5 ½	122	Dead Smooth
2-303-16-0-0	6 ¼	56	Bastard
2-303-16-1-0	6 ¼	66	Second
2-303-16-2-0	6 ¼	86	Smooth
2-303-16-4-0	6 ¼	122	Dead Smooth
2-303-18-0-0	7	56	Bastard
2-303-18-2-0	7	86	Smooth

Features

- Perfect for fine filing and polishing jobs. Used by engravers, precision engineers, instrument makers, watchmakers and goldsmiths
- Square shape, surface tapered to a point. Surfaces double cut

BAHCO® HALF ROUND NEEDLE FILES

Product Code	Length (Inch)	Teeth Per Inch (TPI)	Type of Cut
Without handle			
2-304-14-0-0	5 ½	56	Bastard
2-304-14-2-0	5 ½	86	Smooth
2-304-14-4-0	5 ½	122	Dead Smooth
2-304-16-0-0	6 ¼	56	Bastard
2-304-16-1-0	6 ¼	66	Second
2-304-16-2-0	6 ¼	86	Smooth
2-304-16-4-0	6 ¼	122	Dead Smooth
2-304-18-0-0	7	56	Bastard
2-304-18-2-0	7	86	Smooth

Features

- Perfect for fine filing and polishing jobs. Used by engravers, precision engineers, instrument makers, watchmakers and goldsmiths
- Surfaces taper to a point. Flat and convex surfaces double cut

BAHCO® MILL SAW FILE

Engineering Files

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
Without handle - One Round Edges					
4-138-08-1-0	8	25/32	1/8	46	Bastard
4-138-10-1-0	10	1	5/32	41	Bastard
4-138-12-1-0	12	1 13/16	3/16	36	Bastard
Without handle - Two Round Edges					
4-140-06-1-0	6	5/8	7/64	46	Bastard
4-140-08-1-0	8	25/32	1/8	41	Bastard
4-140-10-1-0	10	1	5/32	36	Bastard

Features

- Designed for circular, felling and gang saws with fine toothing, including bandsaws
- Excels at draw and fine filing, polishing and deburring work
- Used in the engineering industry as a lathe and deburring file
- File is parallel and thin with surface and edge having single cut and one round edge

BAHCO® FLAT CHISEL BIT FILE

Engineering File

Product Code	Length (Inch)	Width (Inch)	Height (Inch)
4-150-07-3-0	7	½	⅛

Features

- Designed for filing of square ground cutters
- File is flat

BAHCO® ERGO™ HOMEOWNER'S FILE - FOR WOOD OR METAL

With Bi-Molded ERGO™ Handle

Product Code	Length (Inch)	Teeth Per Inch (TPI)	Type of Cut	Type
4-152-08-2-2	8	41 + 36	Bastard Rasp & Double Second	Wood
4-153-08-1-2	8	25 + 41	Bastard Double & Single Second	Metal

Features

- Wood file has both rasp and double cut
- Wood file is flat and parallel with two flat, uncut edges - one side bastard rasp cut and the other side double second cut
- Metal file has both bastard double and single second cut
- Metal file is flat and parallel with two flat, uncut edges

4-152-08-2-2

BAHCO® FARMER'S DOUBLE DUTY FILE

Handle has a hole for hanging.

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
4-155-08-2-0	8	1	5/32	23	Second
4-155-10-2-0	10	1 13/16	7/32	18	Second

Features

- File is both double and single cut
- Double cut is for filing flat surfaces and for rough sharpening of edges on spades, hoes, etc.
- Single cut is for fine filing of flat surfaces and for fine sharpening of tools and implements
- File has parallel edges with one being uncut - one side is double cut bastard and the other side is single cut bastard

4-155-10-2-0

BAHCO® ERGO™ SHARPENING FILES - TAPER SAW FILE

Sharpening File

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
With Bi-Molded ERGO™ Handle					
4-183-04-2-2	4	21/64	-	50	Second
4-183-05-2-2	5	13/32	-	46	Second
4-183-06-2-2	6	15/32	-	43	Second
Without handle					
4-183-06-2-0	6	15/32	-	43	Second
4-183-07-2-0	7	1/2	-	41	Second
4-183-08-2-0	8	19/32	-	41	Second
4-183-10-2-0	10	21/32	-	38	Second

Features

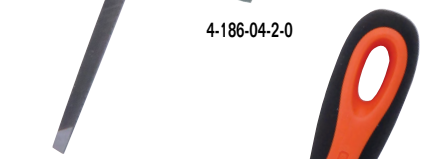
- Designed for sharpening saws with cross toothing and teeth at 60° angle
- File is triangular with edges tapering towards the point with surface and edges single cut

4-183-04-2-2

4-183-06-2-0

⚠WARNING

4-186-04-2-0



4-186-04-2-2

BAHCO® ERGO™ SLIM TAPER FILE

Sharpening File

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
With Bi-Molded ERGO™ Handle					
4-186-04-2-2	4	9/64	-	58	Second
4-186-05-2-2	5	3/16	-	54	Second
4-186-06-2-2	6	15/64	-	50	Second
Without Handle					
4-186-04-2-0	4	9/64	-	58	Second
4-186-05-2-0	5	3/16	-	54	Second
4-186-06-2-0	6	15/64	-	50	Second
4-186-07-2-0	7	17/64	-	46	Second
4-186-08-2-0	8	21/64	-	42	Second

Features

- Used for sharpening of all types of saws with fine cross toothing
- File is triangular with edges tapering towards the point with surface and edges single cut

4-187-04-2-0

4-187-06-2-2

BAHCO® ERGO™ EXTRA SLIM TAPER FILE

Sharpening File

Product Code	Length (Inch)	Width (Inch)	Teeth Per Inch (TPI)	Type of Cut
With Bi-Molded ERGO™ Handle				
4-187-06-2-2	6	3/16	54	Second
Without Handle				
4-187-04-2-0	4	9/64	64	Second
4-187-06-2-0	6	3/16	54	Second
4-187-07-2-0	7	15/64	50	Second
4-287-06-2-0	6	13/64	54	Second

Features

- Used for sharpening of all types of saws with fine cross toothing
- File is triangular with edges tapering towards the point
- Surfaces are single cut on 4-187 and double cut on 4-287
- Edges are single cut
- Section figures indicate the largest width of the file section

4-188-05-2-0

BAHCO® DOUBLE EXTRA SLIM TAPER

Sharpening File

Product Code	Length (Inch)	Width (Inch)	Teeth Per Inch (TPI)	Type of Cut
Without Handle				
4-188-05-2-0	5	11/64	58	Second
4-188-06-2-0	6	11/64	58	Second
4-288-06-2-0	6	11/64	58	Second

Features

- Used for sharpening of all types of saws with fine cross toothing
- Triangular, with edges tapering towards the point
- Surfaces are single cut on 4-188 and double cut on 4-288
- Edges are single cut
- Width figures indicate the largest width of the file section

BAHCO® DOUBLE EDGE SAW FILE - "WASA"

Sharpening Files

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
Without handle					
4-272-06-3-0	6	5/8	5/32	58	Smooth

Features

- For sharpening saws with straight, fine toothing
- Note that saws with hardened tooth points cannot be sharpened with a file
- Parallel, rhombic
- Surfaces and edges single cut

4-272-06-3-0

BAHCO® ERGO™ HALF ROUND RASPS

Rasps

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
With Bi-Molded ERGO™ Handle					
6-342-08-1-2	8	53/64	5/16	64	Coarse
6-342-08-2-2	8	53/64	5/16	104	Medium
Without handle					
6-342-08-1-0	8	53/64	5/16	64	Coarse
6-342-10-1-0	10	15/16	5/16	51	Coarse
6-342-12-1-0	12	1 1/16	3/8	38	Coarse

Features

- Designed for work in wood, plywood, wall board, plastics and other soft materials
- File's edges and surfaces are tapered towards the point with surfaces rasp cut and edges single cut

6-342-08-1-2

6-342-08-1-0

BAHCO® CABINET RASPS

Rasps

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
Without handle					
6-343-08-3-0	8	7/8	7/32	142	Fine
6-343-10-3-0	10	1 1/16	15/64	117	Fine

Features

- Designed for work in wood, plywood, wall board, plastics and other soft materials
- File is thin and half round edges and surfaces tapered towards the point Surface is rasp cut and edges are single cut

6-343-08-3-0

⚠WARNING

6-344-08-2-2

6-345-08-2-2

FM10

BAHCO® ERGO™ HAND RASPS

Rasps

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
With Bi-Molded ERGO™ Handle					
6-344-08-2-2	8	25/32	1/4	104	Medium

Features

- Designed for work in wood, plywood, wall board, plastics and other soft materials
- File's edges and surfaces are parallel with surface rasp cut and one edge single cut

BAHCO® ERGO™ ROUND RASP

Rasps

Product Code	Length (Inch)	Diameter (Inch)	Height (Inch)	Teeth Per Inch (TPI)	Type of Cut
With Bi-Mold ERGO™ Handle					
6-345-08-2-2	8	9/32	23/64	104	Medium

Features

- Designed for work in wood, plywood, wall board, plastics and other soft materials
- File surface is rasp cut
- File is round and tapered towards the point

BAHCO® ERGO™ FILEMASTER

Rasps

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)
With Bi-Molded ERGO™ Handle				
FM10	10	29/32	7/32	9 + 13

Features

- Designed for shear cuts on steel, plastics, laminates and hard woods. Also good for finishing in most materials
- Has curved teeth for fast removal of soft metals, lead, aluminum, soft woods and fillers
- The edges are parallel and uncut, and the surface has milled teeth - one side shear cut and one side curved teeth
- File coated with a protective layer of paint

BAHCO® ERGO™ HALF ROUND FILEMASTER

Rasps

Product Code	Length (Inch)	Width (Inch)	Height (Inch)	Teeth Per Inch (TPI)
With Bi-Molded ERGO™ Handle				
HRFM10	10	29/32	1/8	12

Features

- Designed for filing concave and flat surface, and large holes
- Has curved teeth for fast removal of soft metals, lead, aluminum, soft woods and fillers
- Edges are tapered towards the point and are uncut
- Half round surface are milled, curved teeth and concave back is uncut
- File coated with a protective layer of paint

HRFM10

BAHCO® FILE CLEANER

Accessories

Product Code
9-467-00-0-0

Features

- In order to ensure a good filing result, files should periodically be cleaned during use
- Has bristles on one side and a card of steel wire on the other
- Use the brush to clear clogged teeth
- Doing this regularly will improve the stock removal efficiency of the file, and extend its useful life

9-467-00-0-0

BAHCO® ROUND CHAIN SAW FILES

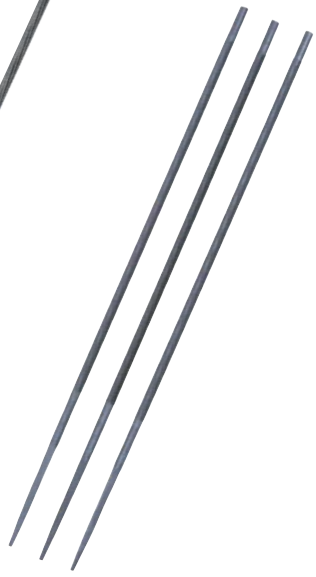
Chain Saw Files

Product Code	Length	Diameter (Inch)
Each file is packed in a skin-pack, which can be used as a protective sleeve.		
168-6-3.2-1P	6	1/8
168-6-3.5-1P	6	9/64
168-8-4.0-1P	8	5/32
168-8-4.5-1P	8	11/64
168-8-4.8-1P	8	3/16
168-8-5.2-1P	8	13/64
168-8-5.5-1P	8	7/32
168-8-6.3-1P	8	1/4
Files are packed in 3 piece protective skin-pack, with perforation for easy separation.		
168-8-4.0-3P	8	5/32
168-8-4.8-3P	8	3/16
168-8-5.5-3P	8	7/32
Files are packed in 6 per paper box.		
168-8-4.0-6	8	5/32
168-8-4.5-6	8	11/64
168-8-4.8-6	8	3/16
168-8-5.2-6	8	13/64
168-8-5.5-6	8	7/32

Features

- For sharpening of the cutting tooth on the saw chain

1 Piece Per Package
168-6-3.5-1P



3 Pieces Per Package
168-8-4.0-3P

WARNING

166-6-16-2.5-12

BAHCO® FLAT CHAIN SAW FILE

Chain Saw File

Product Code	Length (Inch)	Width (Inch)	Height (Inch)
With Bi-Mold ERGO® Handle			
166-6-16-2.5-12	6	5/8	3/32

Features

- Designed for filing of depth gauges on saw chains and for sharpening of brush cutter blades
- Files are packed 12 pieces per box
- File is flat with single cut surface, edges are round and uncut

9-486-C

PH-6604

BAHCO® ERGO™ ROUND CHAIN SAW FILE HANDLES

Product Code	Handle Number	Type	Packaging
9-486-C-10	C	ERGO™	10 Pack
9-486-C-1P	C	ERGO™	1 Individual
PH-6604-1P			1 Individual
PH-6604-25			25 Pack

Features

- Handle 9-486 is ergonomically shaped bi-molded plastic handle that provides soft, textured grip for comfort and control
- Handle 9-486 can hold both round chain saw files (type 168) and flat chain saw file (type 166)
- Handle PH-6604 is an all plastic handle designed for 8 inch round chain saw files with 3 integrated angle guides

9-484

9-488

BAHCO® PLASTIC FILE HANDLES

Comfortable Grip

Product Code	Handle Number	Packaging
Files are packed in 6 per paper box.		
9-484-3.2-1P	3.2	Individual
9-484-5.2-1P	5.2	Individual
9-484-3.2-10	3.2	10 Pack
9-484-5.2-10	5.2	10 Pack
9-488-02-10	Needle/Pansar	10 Pack

Features

- The end covers the file tang and shoulder for safe and comfortable grip
- Plastic file handles designed for small sized files

PATENTED DESIGN IMPROVES SAFETY AND COMFORT

BAHCO® ERGO™ FILE HANDLES

Bi-Molded ERGO™ Handles

Product Code	Handle Number	Packaging
Designed for files of rectangular shape (flat, hand, etc) and for half round files.		
9-485-04-1P	04	Individual
9-485-05-1P	05	Individual
9-485-06-1P	06	Individual
9-485-09-1P	09	Individual
9-485-13-1P	13	Individual
9-485-06-10	06	10-Pack
9-485-09-10	09	10-Pack
9-485-13-10	13	10-pack
Designed for shaped files (round, square, three square, etc.)		
9-486-3.2-1P	3.2	Individual
9-486-04-1P	04	Individual
9-486-05-1P	05	Individual
9-486-07-1P	07	Individual
9-486-04-10	04	10-Pack
9-486-05-10	05	10-Pack
9-486-08-10	08	10-Pack

Features

- Ergonomically shaped bi-molded plastic handle provides soft, textured grip for comfort and control
- The end covers the file tang and shoulder for safe and comfortable grip

⚠WARNING

FILE SELECTION GUIDE
ENGINEERING AND RASPS

Shape	Code	4"	6"	8"	10"	12"	14"
	1-100	5,2	06	09	09	13	13
	1-104				09	13	13
	1-106			09	09	13	
	1-110	5,2	06	09	09	13	13
	1-111	5,2	04	05			
	1-143	5,2	04	05	09	13	13
	1-210	5,2	06	09	09	13	
	1-320			09	09	13	
	6-342	5,2	06	09	09	13	
	6-343			08	09		
	6-344			09	09		
	1-160	3,2	04	07	07	08	
	1-170	3,2	04	07	07		
	1-230	3,2	04	07	07	08	
	6-345			07	07		

	Insert type	Handle tip	Handle size
Yellow field = Handle 9-484-XX-	3.2 5.2	Round shape	Small
Blue field = Handle 9-485-XX-	4, 5, 6, 8, 9	Oval shape	Medium
	13		Large
Orange field = Handle 9-486-XX-	4, 5, 6, 8	Round shape	Medium
	5, 8		Large

Example: Ergo Handle for file 1-100-12-1-0 should be 9-485-13-1P (1-pack) or 9-485-13-10 (10-pack)

FILE SELECTION GUIDE
SHARPENING FILES AND CHAIN SAW FILES

Shape	Code	4"	5"	6"	7"	8"	10"	12"
	166			04				
	4-138			04		05	09	13
	4-140			04		05	09	
	4-152					08		

	Insert type	Handle tip	Handle size
Handle 9-485-XX-	4, 5, 6, 8, 9	Oval shape	Medium
	13		Large

Example: Ergo Handle for file 166-6-16-2.5-12 should be 9-485-04-1P (1-pack) or 9-485-04-10 (10-pack)

FILE SELECTION GUIDE
NEEDLE FILES AND PANSAR FILES

Shape	Code	140mm	160mm	180mm	12"	14"
	2-300	x	x	x		
	2-301	x	x			
	2-302	x	x	x		
	2-303	x	x	x		
	2-304	x	x	x		
	2-304-D	x	x			

Handle 9-488-02-10

Example: Handle for file 2-300-14-0-0 should be 9-488-02-10 (10-pack)

⚠WARNING

HSSG-G1225M

HSSG-M1227M

HSSG-A1225M

HSSG-C1225M

HSSG-E1222M

HSSG-D1211M

BAHCO® ROTARY BURRS

Arch Pointed Nose

Product Code	Diameter Of Head	Length of Head	Toothing
HSSG-G0618M	1/4	11/16	Medium
HSSG-G1220M	1/2	3/4	Medium
HSSG-G1225EC	1/2	1	Extra Coarse
HSSG-G1225M	1/2	1	Medium
HSSG-F0618M	1/4	11/16	Medium
HSSG-F1225M	1/2	1	Medium

Conical Pointed Nose

Product Code	Diameter Of Head	Length of Head	Toothing
HSSG-M0618M	1/4	11/16	Medium
HSSG-M1227M	1/2	1 1/16	Medium

Cylindrical

Product Code	Diameter Of Head	Length of Head	Toothing
HSSG-A0616M	1/4	5/8	Medium
HSSG-A1020M	3/8	3/4	Medium
HSSG-A1225EC	1/2	1	Extra Coarse
HSSG-A1225M	1/2	1	Medium

Cylindrical Round Nose

Product Code	Diameter Of Head	Length of Head	Toothing
HSSG-C0616M	1/4	5/8	Medium
HSSG-C1020M	3/8	3/4	Medium
HSSG-C1225EC	1/2	1	Extra Coarse
HSSG-C1225M	1/2	1	Medium

Oval

Product Code	Diameter Of Head	Length of Head	Toothing
HSSG-E0614M	1/4	9/16	Medium
HSSG-E1222EC	1/2	7/8	Extra Coarse
HSSG-E1222M	1/2	7/8	Medium

Spherical

Product Code	Diameter Of Head	Length of Head	Toothing
HSSG-D0606M	1/4	1/4	Medium
HSSG-D0807M	5/16	1/4	Medium
HSSG-D1009M	3/8	3/8	Medium
HSSG-D1211EC	1/2	7/16	Extra Coarse
HSSG-D1211M	1/2	7/16	Medium

Features

- High Speed Steel burrs used for deburring soft steel, bronze, and brass
- Used to deburr irregular objects and finishing work inside a confined space
- Medium Toothing for machining unhardened steel and other moderately hard materials under normal conditions
- Extra Coarse Toothing for soft materials when good stock removal is required. Counteracts chip build-up between teeth

782-U

BAHCO® WIRE BRUSH

Product Code	Description
782-U	Wire brush

Features

- General purpose utility wire brush for cleaning off durt, rust, paint etc....

BAHCO® ERGO™ SCRAPERS

ERGO™ Carbide Blade Scrapers

Product Code	Length (Inch)	Blade Included:
625	11	# 449 Triangle Shaped Carbide Blade
650	12	# 442 - 2" Carbide Blade
665	12	# 451 -2 1/2" Carbide Blade

Features

- Two-component handle provides better grip and comfort during use
- Scrapers for use on all kinds of surfaces for removal of paint, glue, varnish, rust, gaskets, chalk, grout, mortar, etc.
- Four interchangeable carbide blades for precision work are available for different surface applications
- 625 Scraper comes with convenient plastic holder
- The heavy duty scraper head for models 650 and 665 is designed for wide material removal when extra strength is required
- Scraper 665 comes with large plastic knob for two-handed operation for heavy duty use
- Blades stays sharp up to 50 times longer than conventional steel blades

625

650

665

BAHCO® REPLACEMENT CARBIDE SCRAPER BLADES

Carbide Blades

Product Code	Length (Inch)	Description
449		Triangle Shape, for 625 Scraper
625-DROP		Drop Shape, for 625 Scraper
625-PEAR		Pear Shape, For 625 Scraper
625-ROUND		Round Shape, For 625 Scraper
442	2	For 650 and 665 Scrapers
451	2 1/2	For 650 and 665 Scrapers
850-1	2	Wavy for 650 and 665 Scrapers
865-1	2 1/2	Wavy for 650 and 665 Scrapers

Features

- Blades stays sharp up to 50 times longer than conventional steel blades

449

625-DROP

625-PEAR

625-ROUND

442

GASKET SCRAPER

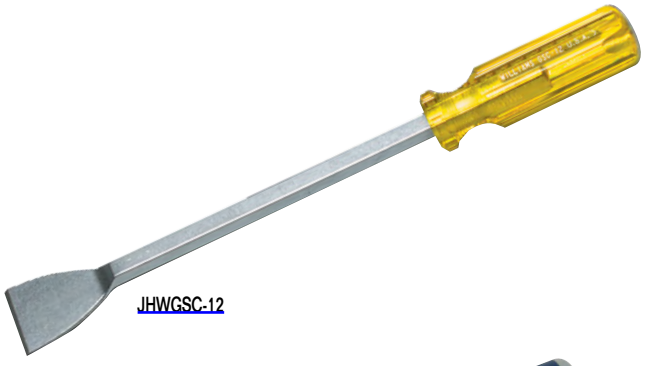
Plastic Handle

Product Code	Blade Length (Inch)	Overall Length	Blade Width
JHWGSC-12	8 7/8	13	1 1/2

Features

- Designed for removing gaskets and carbon
- Comfortable four-sided yellow plastic handle
- Blade coated to resist corrosion

Made in U.S.A.



JHWGSC-12

GASKET SCRAPER

Bi-Mold Comfort Grip Handle

Product Code	Blade Length (Inch)	Overall Length	Blade Width
JHW40000	6	9 3/4	7/8

Features

- Bi-mold handle provides comfortable grip, reducing hand fatigue
- Ideal for gasket removal and cleaning rust and corrosion

JHW40000

WARNING

474

BAHCO® CABINET SCRAPERS

For Carpentry Work

Product Code	Length (Inch)
474-125-0.60	5
474-125-0.80	5
474-150-0.80	6

Features

- Blade of cold-rolled, hardened and tempered chrome-nickel steel
- White plastic edge protector

424P-18

424P-S6-PP

BAHCO® WOODWORKING CHISELS

Comfort Grip

Product Code	Overall Length (Inch)	Blade Length (Inch)	Tip Width (Inch)
424P-6	10 ½	5 ½	¼
424P-10	10 ½	5 ½	⅜
424P-12	10 ½	5 ½	½
424P-18	10 ½	5 ½	¾
424P-25	10 ½	5 ½	1
424P-32	10 ½	5 ½	1 ¼

Chisel Sets

Product Code	Description
424P-S6-PP	Includes chisel sizes: ¼, ⅜, ½, ¾, 1, 1¼ in Polyester Pouch
424P-S6-LR	Includes sizes: ¼, ⅜, ½, ¾, 1, 1¼ in Leather Pouch

424-S6-LR

Features

- Specially designed two-component handle maximizes control and comfort, giving an excellent grip
- Precision ground blade for maximum sharpness
- Varnished blade for increased rust resistance
- Hardened and tempered high quality steel for long lasting performance with 4 mm to 40 mm (5/32" to 1-9/16") size range
- Protective holster and tip protector included
- Comfortable two-component handle fits comfortably into the hand, and provides a nonslip grip
- Perfect for fine carpentry
- Blade guard protects working edges of blade when not in use

BAHCO® ERGO™ CHISELS

High-Quality Steel

Product Code	Overall Length (Inch)	Blade Length (Inch)	Tip Width (Inch)
434-6	10 ¾	5 ½	¼
434-10	10 ¾	5 ½	⅜
434-12	10 ¾	5 ½	½
434-18	10 ¾	5 ½	¾
434-25	10 ¾	5 ½	1
434-28	10 ¾	5 ½	1 ¼
434-38	10 ¾	5 ½	1 ½

Chisel Sets

Product Code	Description
434-S3-EUR	Includes chisel sizes: ½, ¾, 1 in a Cardboard Box
434-S6-EUR	Includes chisel sizes: ¼, ⅜, ½, ¾, 1, 1¼ in a Wooden Box

434-S3-EUR

434-S6-EUR

Features

- Two component ergonomic grip handle
- Splitproof handle allows repeated hammer blows
- Safety guard and rounded shoulders for added security
- Precision ground blade for maximum sharpness
- Hardened and tempered for long lasting performance
- Honed and ready to use
- Polished blade for rust resistance
- Protective holster included

BAHCO® QUICK CLAMPS - QCB SERIES

Power Lever System

Product Code	Capacity (Inches)	Clamping Force
QCB-150	6	450 lbs
QCB-300	12	450 lbs
QCB-450	16	450 lbs
QCB-600	23	450 lbs
QCB-900	35	450 lbs
QCB-1250	49	450 lbs

Features

- Variable speed mechanism, which makes it easier to reach high clamping force
- Removable pads, with V-groove

QCB-300

BAHCO® QUICK CLAMPS - QCG SERIES

Product Code	Capacity Inches)	Clamping Force
QCG-150	6	275 lbs
QCG-300	12	275 lbs

Features

- Easy access in more confined spaces thanks to the smaller body
- Easy to turn in to a spreader with the Spreader button
- Easy access release mechanism
- Comfortable handle from ALL angles, you can use upside down, front to back

QCG-150

BAHCO® SPRING CLAMPS

Product Code	Capacity (Inches)
420SC-25	1
420SC-50	2

Features

- Handy spring clamps with a movable gripping surface for odd shapes

420SC-50

BAHCO® SCREW CLAMPS

Professional

Product Code	Overall Length (Inches)	Maximum Capacity (Inches)
420SH-50-100	4	2
420SH-50-200	8	2
420SH-60-120	5	2
420SH-60-300	12	2
420SH-80-160	6	3
420SH-100-200	8	4
420SH-120-250	10	5
420SH-120-300	12	5
420SH-120-400	16	5
420SH-120-500	20	5
420SH-120-600	24	5
420SH-120-800	31	5
420SH-120-1000	39	5
420SH-120-1250	49	5
420SH-120-1500	59	5
420SH-140-400	16	6
420SH-175-400	16	7

Features

- Professional F clamp with one fixed and one sliding bracket, fitted to a galvanized profiled steel rail.
- Zinc plated screw with special, plastic covered ball swivel foot for secure and easy clamping of odd shapes.
- Tough and weather resistant, square shaped plastic grip

420SH-50-200

⚠WARNING

2744

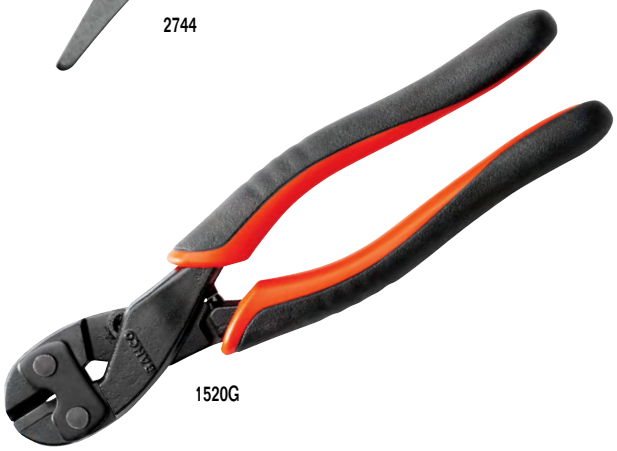
BAHCO® MULTI-PURPOSE SNIPS

Bi-Mold Comfort Grip Handles

Product Code	Overall Length (Inches)
2744	7 ½

Features

- Lightweight yet strong multi-purpose snip for cutting light sheet metal, leather, wire, plastic, wood, etc.



1520G

BAHCO® MINI BOLT CUTTER

Bi-Mold Comfort Grip Handles

Product Code	Overall Length (Inches)
1520G	8

Features

- Access tough to reach work
- Bi-mold comfort grips combine durability and a secure non-slip grip
- Cuts nails and bolts up to 1/4 diameter

4559

BAHCO® BOLT CUTTERS

Comfort Grip Handles

Product Code	Overall Length	Maximum Cutting Capacity For Rebar (Inch)	Replacement Jaw Kit (Includes Jaws, Bolts, and Steel Plates)
4559-12	12	¼	4559-12B JC
4559-18	18	5/16	4559-18B JC
4559-24	24	⅜	4559-24B JC
4559-30	30	½	4559-30B JC
4559-36	36	⅝	4559-36B JC
4559-42	42	⅝	4559-42B JC

Features

- Comfortable rubber grips combine durability and a secure non-slip grip
- Lightweight steel tube handles provide ease of control while offering solid durability
- Unique manufacturing method results in high-precision cutting edges

BAHCO® PUTTY KNIFE

Two component handle for better grip

Product Code	Overall Length (Inches)
2489	9

Features

- For the application and smoothing of adhesives, putties and body dent fillers
- Two component handle for better grip
- Hardened stainless steel blade that extends through the handle

2489

BAHCO® STUD REMOVER

Chrome Finish

Product Code	Overall Length (Inches)	Head Thickness
4553	12	3/8

Features

- For holding and removing studs
- High-performance alloy steel
- Chrome plated finishing
- Thick and round handle to increase strength
- Electrode cap remover at the handle end of the wrench

4553

BAHCO® SAFETY GLASSES

Product Code
3870-SG11

Features

- Scratch resistant
- Polycarbonate
- 99.9% UV protection

3870-SG11

TAPE MEASURE

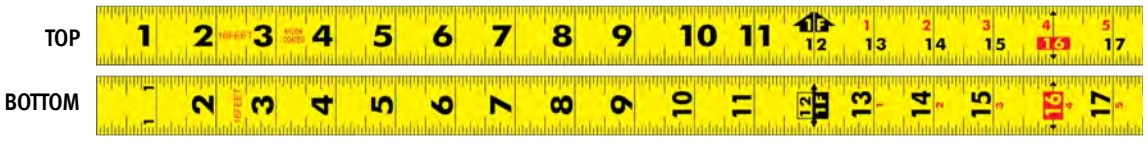
Construction Grade Tape Rule

Product Code	Blade Length (Width and Length Inch)
JHWTM25X1	1 x 25
JHWTM16X1	1 x 16

Features

- Measurements on both sides of the blade
- Auto lock feature
- Triple riveted stainless steel magnetic hook on the end of the blade

Measurements on both sides of the blade



⚠WARNING

LTS-30-E

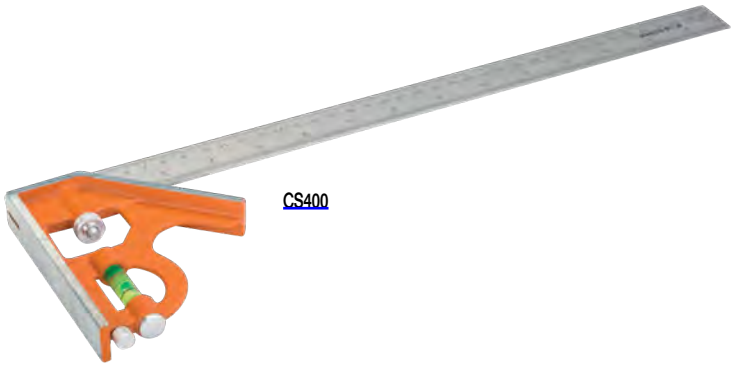
BAHCO® LONG TAPE

Professional Construction Grade

Product Code	Blade Length
LTS-30-E	100 ft (30 M)
LTS-50-E	164 ft (50 M)
LTS-100-E	328 ft (100 M)

Features

- SAE & Metric markings
- 5/8" (16 mm) Blade Width
- Strong fiberglass tape bonded with over 16,000 strands
- Double nylon blade coating for extra wear resistance



CS400

BAHCO® SLIDING COMBINATION SQUARES WITH METAL SCRIBER

Durable Polyester

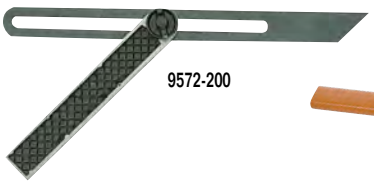
Product Code	Overall Length (Inch)
CS150	6
CS300	12
CS400	16

Features

- Easy to use combination square with both metric and imperial markings
- Adjustable depth for repeated marking and scribing
- Built-in level bubble for approximate marking. Includes a metal scriber housed in the handle

SR300-E

9045-B-250



9572-200

P-HB

BAHCO® RULERS, SQUARE, SLIDING BEVEL, PENCIL

Construction Grade SAE and Metric

Product Code	Overall Length (Inches)	Description
SR150-E	6	Ruler
SR200-E	8	Ruler
SR300-E	12	Ruler
SR600-E	24	Ruler
ST1000-E	39	Ruler
9045-B-250	10	Square, Metric Only
9572-200	8	Sliding bevel
P-HB		Pencil

416-400

426TOR9

BAHCO® LEVELS

Precision

Product Code	Description
426TOR9	9" Torpedo level
416-400	16" Level
416-600	24" Level

Features

- Solid aircraft grade aluminum
- 3 vials: plumb, horizontal and 45 degree
- V Groove base for use on pipes
- Rare earth magnets on base
- Accurate to 0.5 mm/m

BAHCO® THREE POUCH BELT SET

Product Code	Dimensions W x H (Inches)
4750-3PB-1	27 x 10

Features
- Strong construction with riveted reinforcement
- Easy to adjust comfortable nylon belt with 2 inch quick release buckle

4750-3PB-1

BAHCO® UNIVERSAL POUCH

Product Code	Dimensions W x H (Inches)
4750-UP-1	12 x 11

Features
- Riveted for unbreakable strength
- Measuring tape clip
- Leather slots ideal for holding longer tools.
- Two deep multi purpose open pockets provide for quick tool recognition.

4750-UP-1

BAHCO® ELECTRICIANS POUCH

Product Code	Dimensions W x H (Inches)
4750-EP-1	10 x 12

Features
- Universal tool loop for larger tools to keep them organized
- Chain hook for easy access to insulated tapes
- Additional pocket for smaller tools
- Main deep pocket for safe storage
- Real leather slots on the sides

4750-EP-1

BAHCO® TWO POCKET POUCH

Product Code	Dimensions Wx H (Inches)
4750-2PP-1	9 x 11

Features
- Wide pockets hold plenty of tools
- Pocket position prevents tools from falling out

4750-2PP-1

BAHCO® HEAVY DUTY LEATHER BELT

Product Code	Description
4750-HDLB-1	Fits waist 28" to 50"

4750-HDLB-1

BAHCO® HAMMER HOLDER

Product Code	Dimensions Wx H (Inches)
4750-HHO-2	4 x 11

Features
- Fits BAHCO® heavy duty leather belt
- Quick access to hammer

4750-HHO-2

BAHCO® ANTI SLIP KNEE PADS

Product Code	Dimensions Wx H (Inches)
4750-KP-1	4 x 7

Features
- Universal lightweight knee pads for different kinds of surfaces
- Heavy duty cups ensure comfort and safety when used in difficult conditions

4750-KP-1

⚠WARNING

4750PTB60

4750PTB65

BAHCO® PLASTIC TOOL BOXES

Product Code	Length (Inches)	Width (Inches)	Height (Inches)
4750PTB50	19 ½	10 ½	11 ½
4750PTB60	23 ½	11 ½	12
4750PTB65	25 ½	11 ½	12

Features

- When lifted the aluminum handle blocks the bottom from accidentally opening
- Small Transparent detachable boxes are perfect for organizing small items
- Portable tray
- Heavy duty boxes made of virgin polypropylene are resistant to hot and cold temperatures
- Strong and sturdy boxes, 2 mm thick, can take high load capacity, even allowing the user to stand on them
- Metallic latches are galvanized making them durable and rust resistant
- Pad lock can be added to the box

4750PTW47

BAHCO® PLASTIC TOOL BOX ON WHEELS

Product Code	Length (Inches)	Width (Inches)	Height (Inches)
4750PTW47	24 ¾	11 ½	18 ½

Features

- The upper box can be used as a regular tool box and the bottom box is perfect for heavier tools
- Wheels are made of PP and EVA, for smooth and silent rolling and absorbing of impacts
- Two small transparent detachable boxes are perfect for organizing small items
- Portable tray
- Heavy duty boxes made of virgin polypropylene are resistant to hot and cold temperatures
- Strong and sturdy boxes, 2 mm thick, can take high load capacity, even allowing the user to stand on them
- Metallic latches are galvanized making them durable and rust resistant
- Top and bottom sections are connected with latches

4750FB4-18

BAHCO® LAPTOP AND TOOL BAG WITH HARD BOTTOM

Product Code	Length (Inches)	Width (Inches)	Height (Inches)
4750FB4-18	17	6	13 ¾

Features

- Material is a combination of Denier 600 and 1680 polyester that prevents the bag from damage and provides lightweight flexibility
- Plastic hard bottom and double stitching reinforcement is 100% waterproof and easy to clean
- Pockets provide easy access to tools
- Detachable compartments
- Padded compartment is ideal for laptop
- Tools not included

BAHCO® 24" OPEN TOOL BAG WITH WHEELS

Product Code	Length (Inches)	Width (Inches)	Height (Inches)
4750FB2W-24A	24	12	15 ¾

Features

- Material is a combination of Denier 600 and 1680 polyester that prevents the bag from damage and provides lightweight flexibility
- Plastic hard bottom and double stitching reinforcement is 100% waterproof and easy to clean
- Heavy duty PVC zippers makes closing and opening quick and easy
- Pockets provide easy access to tools
- Big side pouches: left side is detachable and right side is fixed
- Special size pocket for 10" tablet
- Telescopic handle – max 38"
- Wheels provide easy quiet rolling

4750FB2W-24A

BAHCO® 19" OPEN TOOL BAG WITH HARD BOTTOM

Product Code	Length (Inches)	Width (Inches)	Height (Inches)
4750FB1-19A	19	9	14

Features

- Material is a combination of Denier 600 and 1680 polyester that prevents the bag from damage and provides lightweight flexibility
- Plastic hard bottom and double stitching reinforcement is 100% waterproof and easy to clean
- Heavy duty PVC zippers makes closing and opening quick and easy
- Velcro straps store long tools on both upper sides of the bag
- Soft grip handles made of rubberized material provides a user friendly grip and isolates against cold temperature

4750FB1-19A

BAHCO® 19" TOOL BAG WITH HARD BOTTOM

Product Code	Length (Inches)	Width (Inches)	Height (Inches)
4750FB1-19B	19	9	14

Features

- Material is a combination of Denier 600 and 1680 polyester that prevents the bag from damage and provides lightweight flexibility
- Plastic hard bottom and double stitching reinforcement is 100% waterproof and easy to clean
- Velcro straps store long tools on both upper sides of the bag
- Soft grip handles made of rubberized material provides a user friendly grip and isolates against cold temperature
- Easy access to the handle through the cover
- Pockets provide easy access to tools
- Internal detachable tool panel with Velcro system for quickly taking out and returning tools

4750FB1-19B

⚠WARNING

4750FB2-19A

BAHCO® CLOSED TOOL BAG WITH HARD BOTTOM

Product Code	Length (Inches)	Width (Inches)	Height (Inches)
4750FB2-19A	19	9	14
4750FB2-24A	24	10	15

Features

- 600 Denier polyester prevents the bag from damage and provides flexibility and is lightweight
- Plastic hard bottom and double stitching reinforcement is 100% waterproof and easy to clean
- Heavy duty PVC zippers makes closing and opening quick and easy
- Quick adjustable straps store long tools
- Multiple internal and external pockets

4750FB3-12

BAHCO® 12" ELECTRICIAN'S BAG WITH HARD BOTTOM

Product Code	Length (Inches)	Width (Inches)	Height (Inches)
4750FB3-12	11 ½	7 ½	11 ½

Features

- 600 Denier polyester prevents the bag from damage and provides flexibility and is lightweight
- Plastic hard bottom and double stitching reinforcement is 100% waterproof and easy to clean
- Pockets provide easy access to tools
- Cable loop holder
- Central big compartment for bit tools and materials

4750FB5B

4750FB5C

BAHCO® TOOL ORGANIZERS

Product Code	Length (Inches)	Width (Inches)	Height (Inches)
4750FB5B	13	10 ½	2 ¾
4750FB5C	16	12	3 ½

Features

- Perfect for organizing tools
- Elastic straps for tool distribution in the bottom and upper side
- Card holder on the front and label holder on the side for quick identification

BAHCO® TOOL BACKPACK

Made from durable polyester

Product Code	Overall Length (Inch)
3875-BP1	16

Features

- Multiple inner compartments including a padded compartment for laptop
- Made from durable polyester
- Polypropylene straps to reinforce the structure
- Zip closed and secured by hardwearing safety straps
- Reflecting band
- Adjustable shoulder strap
- Foam padded polyester back
- Color labels with maximum weight, safety guidelines and production order number
- Tested as textile sling according to EN 1492-1+A1 2008
- Suitable for working at height

Items show not included

3875-BP1

BAHCO® 36" TOOL BAG

Product Code	Length (Inches)	Width (Inches)	Height (Inches)
AG-BAG-36	36	12	12

Features

- Two Handles
- Ideal for storing and toting tools, parts and supplies

AG-BAG-36

BAHCO® 17" OPEN TOTE CADDY TOOL BAG ORGANIZER

Product Code	Length (Inches)	Width (Inches)	Height (Inches)
3100TB	17	10	13

Features

- Hard plastic bottom keeps moisture out of organizer
- Two Handles
- Ideal for storing and toting tools, parts and supplies

3100TB

⚠WARNING

JHW40201

JHW40251

JHW40150

UTILITY TOOLS AND SETS

Bi-Mold Comfort Grip Handles

Product Code	Description	Contents Include
JHW40201	4 Piece Mini Pick & Hook Set	Straight pick 45° bent tip pick 90° bent tip pick Full semi-circular hook
JHW40251	4 Piece Utility Tool Set	Gasket scraper Scratch awl Cotter pin puller Hose removal tool
JHW40150	Magnetic pick-up tool with telescoping shaft	N/A

Features

- Bi-mold handles provide comfortable grip, reducing hand fatigue
- Use for scribing, alignment, o-ring removal, and parts cleaning
- Small size makes them ideal for hard to reach work surfaces
- Telescopic pick-up tool features powerful magnetic tip
- Magnetic pick-up tool extended length is 18¼, pick-up weight is 1¼ pounds
- 40201 Overall length: 6 inches, handle length: 2 ¾"

JHW42301

JHW42302

JHW42304A

CREEPERS

Heavy Duty - Low Profile

Product Code	Description	Weight Capacity (lb)
JHW42301	Heavy-Duty Drop-Shoulder Creeper	570
JHW42302	Mechanic's Seat Creeper	380
JHW42304A	Adjustable-Height Swivel Seat-Creeper	380

Features - Heavy-Duty Drop-Shoulder Creeper

- Low-profile design rests only 2" from the ground
- Drop-rail design allows greater shoulder and arm clearance
- 16 gauge, ¾" square-stock steel frame
- 1" padding on bed and 2" padding on headrest
- Six 2-½" diameter hooded casters shield user's clothing from dirt and grease

Features - Mechanic's Seat Creeper

- Seat is topped with comfortable 1-½" thick foam padding
- 1" square-stock steel frame
- Four 2-½" diameter hooded casters shield user's clothing from dirt and grease
- Heavy-duty 3-section plastic pan stores tools and small parts

Features - Adjustable-Height Swivel Seat-Creeper

- Height adjusts from 17" to 22"
- Seat swivels a full 360°
- Four 2-½" diameter hooded casters shield user's clothing from dirt and grease
- Steel tube frame supports cylinder for ultimate strength
- Bottom pan serves as storage for tools and small parts

SET-UP WEDGES

Heavy Duty Machine Shop Tools

Product Code	Length	Width	Thick End
JHWWG-3	3	1	1/4
JHWWG-5	5	1	1/2
JHWWG-6	6	1 1/4	3/4

JHWWG-5

Features

- Set-up wedges are used for setting-up work on planers, shapers, milling machines and other similar applications

Made in U.S.A.

EYEBOLTS

Plain Pattern

Product Code	Shank Diameter (Inches)	Threads per Inch	Capacity of Vertical Load (lbs)	Length of Shank (Inches)	Inner Diameter (Inches)	Head Cross Section Thickness (Inches)	Overall Length (Inches)	Ultimate Strength (lbs)
JHWEB-1T	1/4	20	500	1	3/4	9/32	2 1/4	2500
JHWEB-2T	5/16	18	900	1 1/8	27/32	9/32	2 5/8	4500
JHWEB-3T	3/8	16	1,300	1 1/4	1 1/32	5/16	2 29/32	6500
JHWEB-4T	7/16	14	1,800	1 3/8	1 1/16	3/8	3 1/4	9000
JHWEB-5T	1/2	13	1,400	1 1/2	1 1/8	5/32	3 5/8	12000
JHWEB-6T	9/16	12	3,000	1 5/8	1 1/4	1/2	3 31/32	15000
JHWEB-7T	5/8	11	4,000	1 3/4	1 5/16	9/16	4 3/8	20000
JHWEB-8T	3/4	10	5,000	2	1 17/32	5/8	4 25/32	25000
JHWEB-9T	7/8	9	7,000	2 1/4	1 5/8	13/16	5 9/16	35000
JHWEB-10T	1	8	9,000	2 1/2	1 3/4	29/32	6 1/8	45000
JHWEB-11T	1 1/8	7	12,000	2 3/4	1 15/16	1 1/16	6 7/8	60000
JHWEB-12T	1 1/4	7	15,000	3 1/2	2 5/32	1 5/32	7 1/2	75000
JHWEB-14T	1 1/2	6	21,000	3 3/4	2 7/16	1 13/32	8 13/16	105000
JHWEB-15T	1 3/4	5	28,000	3 3/4	2 25/32	1 21/32	9 7/8	140000
JHWEB-16T	2	4 1/2	38,000	4	3 5/32	1 27/32	11	190000
JHWEB-17T	2 1/2	4	56,000	5	4	2 1/4	13 1/2	280000

ANSI Spec: B18.15 1985

JHWEB-9T

Features

- Forged from the best quality carbon steel, hardened and tempered to ensure increased strength and toughness and reduce liability or breakage
- Each lot is tested and inspected to insure conformance to specifications
- Available with UNC Class 2A thread only
- Plain pattern eyebolts must never be used to lift an angular load
- Eyebolt shanks should never be undercut or eyebolt shank diameters reduced
- To obtain greatest strength from an eye bolt, it must fit reasonably tight in the hole into which it is screwed to prevent unscrewing due to twist of cable
- Tightness and seating must be checked after initial load

Made in U.S.A.

EYEBOLTS

Shoulder Pattern

Product Code	Shank Diameter (Inches)	Threads per Inch	Length of Shank (Inches)	Inner Diameter (Inches)	Head Cross-Section Thickness (Inches)	Overall Length (Inches)	Shoulder Width (Inches)	Ultimate Strength (lbs)
JHWEB-21T	1/4	20	1	3/4	9/32	2 7/16	9/16	2500
JHWEB-22T	5/16	18	1 1/8	27/32	9/32	2 7/8	19/32	4500
JHWEB-23T	3/8	16	1 1/4	1	5/16	3 11/32	21/32	6500
JHWEB-24T	7/16	14	1 3/8	1 1/16	3/8	3 23/32	27/32	9000
JHWEB-25T	1/2	13	1 1/2	1 5/32	7/16	4 1/32	29/32	12000
JHWEB-26T	9/16	12	1 5/8	1 11/32	7/32	4 13/32	15/16	15000
JHWEB-27T	5/8	11	1 3/4	1 11/32	9/16	4 3/4	1 1/32	20000
JHWEB-28T	3/4	10	2	1 1/2	11/16	5 11/32	1 5/16	25000
JHWEB-29T	7/8	9	2 1/4	1 5/8	13/16	6	1 7/16	35000
JHWEB-30T	1	8	2 1/2	1 13/16	7/8	6 3/4	1 5/8	45000
JHWEB-31T	1 1/8	7	2 3/4	1 15/16	1 1/16	7 1/2	1 3/4	60000
JHWEB-32T	1 1/4	7	3	2 1/8	1 3/16	8 3/8	2 1/32	75000
JHWEB-34T	1 1/2	6	3 1/2	2 19/32	1 1/2	9 3/8	2 3/16	105000
JHWEB-35T	1 3/4	5	3 3/4	2 27/32	1 19/32	10 3/4	2 1/2	140000
JHWEB-36T	2	4 1/2	4	3 5/32	1 7/8	12	2 29/32	190000

ANSI Spec: B18.15 1985

JHWEB-29T

Features

- Forged from the best quality carbon steel, hardened and tempered to ensure increased strength and toughness and reduce liability or breakage
- Each lot is tested and inspected to insure conformance to specifications
- Available with UNC Class 2A thread only
- Eyebolt shanks should never be undercut or eyebolt shank diameters reduced
- Shoulder eye bolts must be properly seated (should bear firmly against the mating part) otherwise the working loads must be reduced substantially
- A steel washer or spacer may be required for proper seating
- To obtain greatest strength from an eye bolt, it must fit reasonably tight in the hole into which it is screwed to prevent unscrewing due to twist of cable
- Tightness and seating must be checked after initial load

Made in U.S.A.

⚠WARNING

EYEBOLT ANGULAR LOADING RATED CAPACITY

Material Data

Grade: Carbon Steel
Heat Treat: Quench & Draw

Mechanical Properties

Grain Size: 5 or finer
Tensile: 65,000 PSI Min
Yield: 30,000 PSI Min
Elongation: 30% Min
Reduction of Area: 60% Min

					Angular Loading Rated Capacity (Pounds)			
Part Number Plain	Shank Diameter	Threads Per Inch	Capacity of Vertical Load (lbs)	Ultimate Strength (lbs)	0 Degree	30 Degree	60 Degree	90 Degree
JHWEB-1T	1/4	20	500	2,500				
JHWEB-2T	5/16	18	900	4,500				
JHWEB-3T	3/8	16	1,300	6,500				
JHWEB-4T	7/16	14	1,800	9,000				
JHWEB-5T	1/2	13	2,400	12,000				
JHWEB-6T	9/16	12	3,000	15,000				
JHWEB-7T	5/8	11	4,000	20,000				
JHWEB-8T	3/4	10	5,000	25,000				
JHWEB-9T	7/8	9	7,000	35,000				
JHWEB-10T	1	8	9,000	45,000				
JHWEB-11T	1 1/8	7	12,000	60,000				
JHWEB-12T	1 1/4	7	15,000	75,000				
JHWEB-14T	1 1/2	6	21,000	105,000				
JHWEB-15T	1 3/4	5	28,000	140,000				
JHWEB-16T	2	4 1/2	38,000	190,000				
JHWEB-17T	2 1/2	4	56,000	280,000				
JHWEB-21T	1/4	20	500	2,500	440	70	NR	NR
JHWEB-22T	5/16	18	900	4,500	720	170	NR	NR
JHWEB-23T	3/8	16	1,300	6,500	1,080	335	185	150
JHWEB-24T	7/16	14	1,800	9,000	1,480	435	275	215
JHWEB-25T	1/2	13	2,400	12,000	1,960	695	460	365
JHWEB-26T	9/16	12	3,000	15,000	3,140	1,220	735	600
JHWEB-27T	5/8	11	4,000	20,000	3,140	1,220	735	600
JHWEB-28T	3/4	10	5,000	25,000	4,600	1,950	1,095	960
JHWEB-29T	7/8	9	7,000	35,000	6,400	2,710	1,750	1,485
JHWEB-30T	1	8	9,000	45,000	8,400	3,595	2,450	2,160
JHWEB-31T	1 1/8	7	12,000	60,000	10,600	4,235	3,380	2,985
JHWEB-32T	1 1/4	7	15,000	75,000	13,400	5,540	3,675	3,285
JHWEB-34T	1 1/2	6	21,000	105,000	19,600	8,410	5,590	5,080
JHWEB-35T	1 3/4	5	28,000	140,000	28,000	12,100	8,250	7,370
JHWEB-36T	2	4 1/2	38,000	190,000	38,000	15,970	10,910	9,740

NR = Not Recommended.

- No greater load should be allowed than that given under rated capacity in each table of dimensional data
- Safety Factor: Rated capacity is figured with 5:1 safety factor for zero degree straight vertical pull

FLUTED SCREW EXTRACTORS

Straight, Tapered Flutes

Product Code	Drill Size (Inches)	For Use on Bolt Sizes (Inches)
JHWEX-21A	1/8	1/4 to 5/16
JHWEX-21B	3/16	3/8
JHWEX-22A	7/32	7/16
JHWEX-24A	5/16	1/2 to 9/16
JHWEX-25B	3/8	5/8
JHWEX-25A	15/32	3/4
JHWEX-26A	9/16	7/8
JHWEX-28	21/32	1 to 1 1/8
JHWEX-29	13/16	1 1/4 to 1 3/8
JHWEX-30	1 1/16	1 1/2

JHWEXS-30 6 Piece Screw Extractor Set
Contents Include:

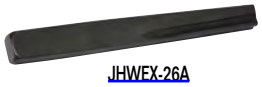
Product Code	Product Code	Product Code
JHWEX-21A	JHWEX-22A	JHWEX-25B
JHWEX-21B	JHWEX-24A	JHWEX-25A

JHWEXS-10 10 Piece Screw Extractor Set
Contents Include:

Product Code	Product Code	Product Code	Product Code	Product Code
JHWEX-21A	JHWEX-22A	JHWEX-25B	JHWEX-26A	JHWEX-29
JHWEX-21B	JHWEX-24A	JHWEX-25A	JHWEX-28	JHWEX-30

Features
- Designed for quick, easy removal of left or right-handed broken screws, bolts, studs or other threaded forms
- Drill bit sizes to be used are stamped on each extractor
- A hole is first drilled in the broken stem and the right size Williams extractor is then inserted

Made in U.S.A.


JHWEX-26A

JHWEXS-10

JHWEXS-30

FEELER GAUGE SET

Heavy Duty Machine Shop Tools

Product Code	Description	Thickness	Number of Blades
JHWGS-1	Master Feeler Gauge Set	.0015 - 1/32	25

Features
- 25 blades 3-5/16" x 1/2" in the following thicknesses: .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .018, .020, .022, .024, .025, .028, .030, .032, and .035
- Both decimal and equivalent metric size etched in each blade
- Gauges supplied in holder with knurled lock-nut which allows the user to select the required blade size and lock it into position

Product Code	Description	Thickness	Number of Blades
JHWGS-2	Standard Feeler Gauge Set	.002 - .015	10

Features
- 10 blades 3" x 1/2" in the following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .012, .015
- Both decimal and equivalent metric size etched in each blade
- Gauges supplied in holder with knurled lock-nut which allows the user to select the required blade size and lock it into position

Product Code	Description	Thickness	Number of Blades
JHWGS-3	Combination Feeler Gauge Set	.002 - .025	22

Features
- Contains total of 22 blades
- 10 blades 3" x 1/2" in the following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .013, .015
- 12 blades 1-3/4" x 1/4" in the following thicknesses: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, .025
- Overall length 5"
- Both decimal and equivalent metric size etched in each blade
- Gauges supplied in holder with knurled lock-nut which allows the user to select the required blade size and lock it into position

Product Code	Description	Thickness	Number of Blades
JHWGS-4	Piston Feeler Gauge Set	.002 - .015	8

Features
- 8 blades 9" x 1/2" in the following thicknesses: .002, .003, .004, .005, .006, .008, .010, .015
- Both decimal and equivalent metric size etched in each blade
- Gauges supplied in holder with knurled lock-nut which allows the user to select the required blade size and lock it into position

Made in U.S.A.

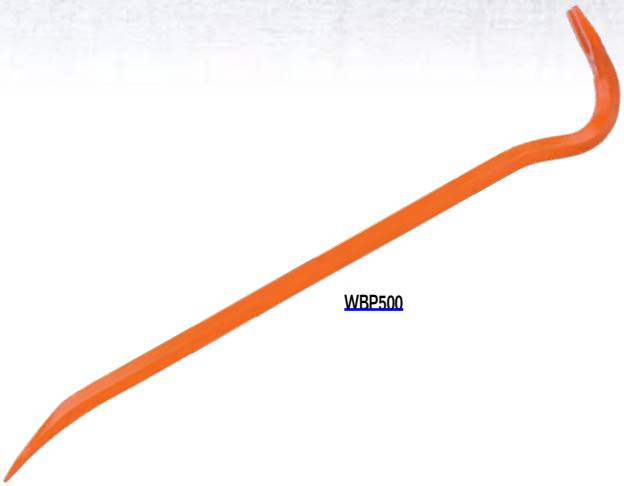
JHWGS-1

JHWGS-2

JHWGS-3

JHWGS-4

WARNING



WBP500

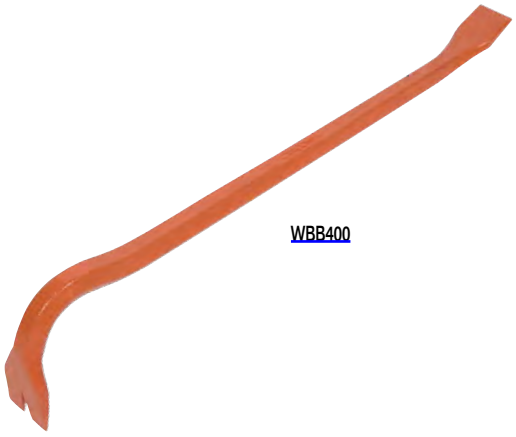
BAHCO® PREMIUM WRECKING BARS WITH BENT AND FLAT END

Blunt Tip

Product Code	Overall Length (Inch)
WBP300	12
WBP500	20
WBP625	25
WBP710	28
WBP900	36

Features

- Octagonal bar
- 346 mm to 890 mm
- Steel SCM440
- Polished and given a grey coated
- Bent end and flat end
- Nail claw on one end especially designed for easy operation
- Uniform head treatment in the whole bar
- Uniform hardness: 49 HRC to 52.5 HRC



WBB400

BAHCO® WRECKING BARS WITH BENT AND FLAT END

Blunt Tip

Product Code	Overall Length (Inch)
WBB400	12
WBB500	21
WBB600	24
WBB700	28

Features

- Hexagonal bar
- Steel C45E body
- Fully painted in orange RAL2009
- Bent end and flat end body
- Heat treatment on the nail's areas
- Shaft hardness 25 HRC to 36 HRC, 45 HRC to 53 HRC in the nails

396-LAP

LAP-KNIFE

2444-LAP

BAHCO® LAPLANDER FOLDING SAW AND MULTIPURPOSE KNIFE

General Purpose Folding Saw

Product Code	Blade Length (Inch)	Teeth Per Inch
396-LAP	9	7

Multipurpose Knife

Product Code	Overall Length (Inch)
2444-LAP	9

Saw and Knife Set

Product Code	Description
LAP-KNIFE	Folding saw & Multipurpose Knife

Features

- A general purpose folding saw for cutting both green and dry wood, plastic, bone etc.
- Specially designed for wild-life enthusiasts, hunting and campers
- XT toothing, 7TPI
- Blade specially coated for rust protection and low friction
- Two-component plastic handle for perfect grip, with leather strap
- Safety lock, locked also when folded

BAHCO® RESCUE FLOATING KNIFE

Stainless Steel Blade

Product Code
1446-FLOAT

Features

- Floating knife with Stainless Steel blade and serrated cutting edge
- The knives helps to prevent high recovery cost when it is dropped in the water and helps to avoid plastic in the aquatic environment
- The knife is designed to float straight up for better visibility
- To increase visibility in darkness the handle and holster luminizes when using UV light
- The handle contains a hole to attached to a wrist strap or lanyard

1446-FLOAT

BAHCO® SAFETY KNIFE WITH STAINLESS STEEL BLADES

Blunt Tip

Product Code	Overall Length (Inch)
2446-SAFE	8 ½

Features

- Safety knife with blunt tip to avoid accidental injuries
- Comfortable two-component handle provides excellent grip
- Robust multipurpose knife with a solid stainless steel blade
- Supplied with a practical sheath for carrying on a belt
- Holster includes a double fix button for attaching a holster with second knife

2446-SAFE

BAHCO® CARPENTER'S MULTI-PURPOSE KNIFE WITH HOLSTER

With Holster

Product Code	Description	Length (Inches)
1446	Multi Purpose Knife with Holster	9
2444	Carpenter's Multi-Purpose Knife with Holster	9
2446	Multi Purpose Knife with Holster	9

Features

- Multi purpose knife with high quality steel and bi-component handle
- Polished stainless steel blade
- Two component handle for comfortable grip
- Knife comes in plastic case with belt clip
- Ideal for fishermen, hunters and for working in the garden

1446

2444

2446

BAHCO® WRECKING KNIFE

With Holster

Product Code	Description	Length (Inches)
2448	Wrecking Knife	9

Features

- The wrecking chisel knife has been designed to be used like a regular chisel or when turned sideways a 4in wide knife
- The blade is 4mm thick and made from hardened steel and can be used like a 4in chisel with a hammer on the back of the blade for added force
- The handle has a curved guard to protect the knuckles while in use and can also be used with a hammer
- The wrecking knife comes in handy for all those woodworking tasks
- The knife comes complete with a holster with button clip

2448

⚠WARNING

KBTU-01

KBSK-01

BAHCO® SPORTS KNIVES

Product Code	Description
KBTU-01	Knife with Twin Blade - Utility & Sports Blade
KBSK-01	Knife with 3 Inch Sport Blade-Only

Features

- Sports knives have an aluminum handle
- Stainless steel blade and mechanism
- Blade locks in position when fully unfolded
- Unlock button to avoid accidental folding

KB18-01

KE18-01

BAHCO® ERGO™ SNAP BLADE KNIFE

Product Code	Description
KB18-01	18mm Snap Off Knife TPR
KE18-01	ERGO® 18 mm Snap Off Knife
KSBG18-10D	Replacement Snap Blade - 10 pack

Features

- ABS body with comfortable TPR grip
- Blade storage in backside of the body
- Closed front of body to simplify blade snapping

KG09-01

BAHCO® SNAP BLADE KNIFE

Product Code	Description
KG09-01	9mm Snap Off Knife
KSBG09-10D	Replacement Snap Blade - 10 pack
KE18-01	ERGO® 18 mm Snap Blade Knife

Features

- ABS body smooth textured button
- Precise steel mechanism for distinct blade positioning

KERU-01

BAHCO® ERGO™ UTILITY KNIFE

Product Code	Description
KERU-01	ERGO® Retractable Utility Knife

Features

- Integrated button for smooth action and to shift blade in three distinct positions
- Curved handle for wide variety of grips
- Smart button to replace blades
- Narrow head for optimal visibility and precision
- Ideal angle for minimized muscle stress
- Optimized handle size and weight
- Smart button to store blades without opening the body

AUTOLOAD QUICK-BLADE UTILITY KNIFE

Includes Heavy-Duty .025" Thick 2-Notch Blades

Product Code	Description
JHW40052	Autoload Quick-Blade Utility Knife

Features

- Blade is easily removed or reversed from the front with push-button ease
- New blade is automatically loaded from 5-blade magazine
- Spring-loaded cover makes reloading quick and tool-free
- Includes (5) .025" blades

JHW40052

BAHCO® SQUEEZE GRIP SAFETY KNIFE

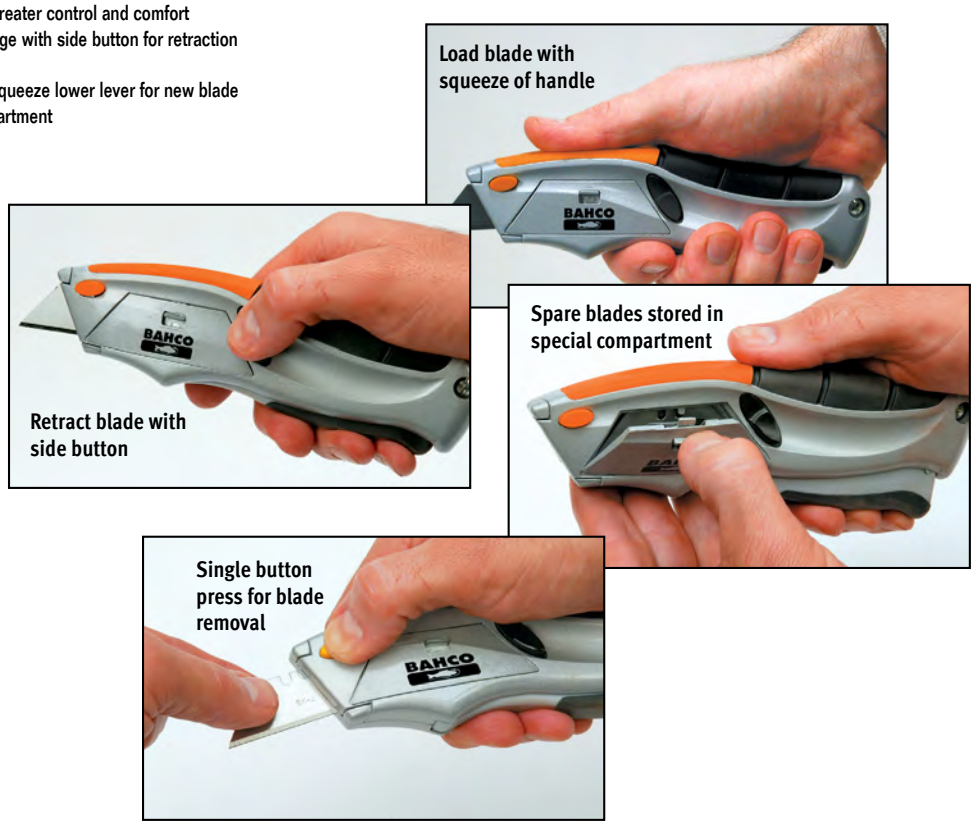
Bi-Mold Comfort Grip Handle

Product Code	Description
SQZ150003	Squeeze Grip Safety Knife
SQZ150003-HSBL	12 Pack Hook Blades
SQZ150005-SBL	12 Pack Standard Blades

Features

- Automatically loads new knife blade with the squeeze of the handle
- Quick release button to remove blade
- Comfort handle with thumb groove for greater control and comfort
- Extremely fast blade operation and change with side button for retraction and lower lever for extension
- Single button press for blade removal, squeeze lower lever for new blade
- Six spare blades stored in special compartment
- Includes: 6 heavy-duty blades

SQZ150003



WARNING

JHW40082

DISPOSABLE SAFETY CUTTER

Product Code	Description
JHW40082	Lightweight, ergonomic, ambidextrous disposable safety cutter

Features

- Retracting safety hooded guard prevents cuts
- NSF certified for food areas
- Safety point blade included standard
- Integrated tape splitter
- Stainless steel blade for hygiene
- 3-button mechanism for top and side cuts
- Applications: multi purpose cutting, food processing areas, cuts corrugate, cartons, taped boxes, film and shrink

JHW40084

DISPOSABLE FILM CUTTER

Product Code	Description
JHW40084	Durable plastic construction and a long-lasting super sharp blade

Features

- Suitable for use in food areas
- Integrated tape slitter
- Stainless steel blade for hygiene
- Applications: cuts tape, strapping, shrink wrap and film

JHWLLED-150

ALUMINUM PEN LIGHT

UV Spotlight

Product Code	Overall Length (inch)
JHWLLED-150	7

Features

- Premium slim aluminum design
- Compact size for easy carrying
- Built-in magnet on clip for hand free
- Main light provide 150lm output
- Spot light with UV LED for leak detection
- Micro-USB charge port
- Light in weight
- Design for mechanical

LED ROTATING WORKLIGHT

Product Code	Description
JHW5102	24 LED Rotating Magnetic Work light
JHW5103	48 LED Rotating Magnetic Work light

Features
- Rotating head allow directional positioning
- Powerful magnetic base for secure mounting
- Includes alkaline batteries
- 5103 is two times as bright as 5102

JHW5102 JHW5103

BAHCO® MAGNETIC PICK-UP TOOL WITH LIGHT

Product Code	Description	Extended Length (Inches)
2535L	Magnetic Pick-up Tool with Light	30

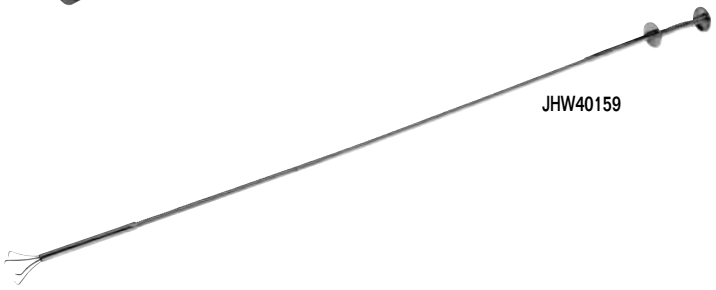
Features
- Wide area lighting
- Soft grip handle
- Powerful magnetic tip
- Pick-up weight is 1¼ pounds

2535L

FLEXIBLE SPRING CLAW

Product Code	# of Claws	Max Jaw Opening (inches)	Flexible Section length, inches	Overall Length (inches)
JHW40159	4	¾"	16"	23 ½"

Features
- Tightly wound, Flexible spring snakes into tight areas
- Four-jaw claw opens wide to secure hard to reach objects


JHW40159

TELESCOPING MAGNETIC PICK UP TOOLS

Product Code	Lifts (lbs)	Overall Length (Inches)	Extends to
JHW40151	2 ½	6 ⅝"	33 ¼"
JHW40152	5	6 ⅝"	33 ¼"
JHW40153	10	8 ¼"	30 ¼"
JHW40154	2 ½	6 ½"	25 ½"
JHW40155	1 ½	5 ⅝"	25 9⁄16"
JHW40155-30P		30 pack counter display	

Features
- Stainless Steel Shaft
- JHW40154 and JHW40155 Chrome Shaft
- Black cushion grip will not slip in oily or wet hands
- Powercap® shields sides of magnet for focused lifting
- Includes pocket clip

JHW40151
JHW40152
JHW40155

⚠WARNING

LED TELESCOPING MIRRORS

Product Code	Mirror Diameter	Overall Length (Inches)	Extends to
JHW40255	2 3/8"	6 1/2"	37"
JHW40256	2 1/4" x 3 1/2"	6 1/2"	30 1/4"

Features

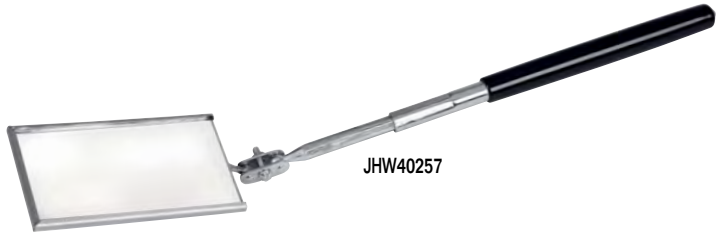
- Stainless Steel Shaft
- Cushion grip will not slip in oily or wet hands
- Batteries included

TELESCOPING INSPECTION MIRRORS

Product Code	Mirror Diameter	Overall Length (Inches)	Extends to
JHW40252	1 1/4"	6 1/2"	35"
JHW40253	2 1/4"	6 1/2"	36 3/8"
JHW40254	3 1/4"	6 1/2"	29 1/2"

Features

- Stainless Steel Shaft
- Cushion grip will not slip in oily or wet hands



SWIVEL INSPECTION RECTANGULAR MIRROR

Product Code	Mirror Diameter	Overall Length (Inches)	Extends to
JHW40257	2 1/8" x 3 1/2"	11 1/4"	15 1/4"

Features

- Vinyl Grip
- Double ball joints allow mirror to swivel 360 degrees
- Glass Mirror
- Stainless Steel Mirror Back
- Non-rotating telescoping rods

BAHCO® NAIL PULLER/NAIL PUNCH

Nail Punch

Product Code	Description	Overall Length (Inches)
36	Nail Puller	9
SB-3732-2.5-1.25	Nail Punch	5

Features

- For fast easy removal of nails
- Black Industrial Finish
- Comfortable non-slip thermoplastic grip handle
- Patented internal spring to keep the jaws open
- Wide striking area
- To be used with a claw hammer

36

SB-3732-2.5-1.25

BAHCO® GENERAL PURPOSE GLOVES

Product Code	Size
GL008-10US	Large

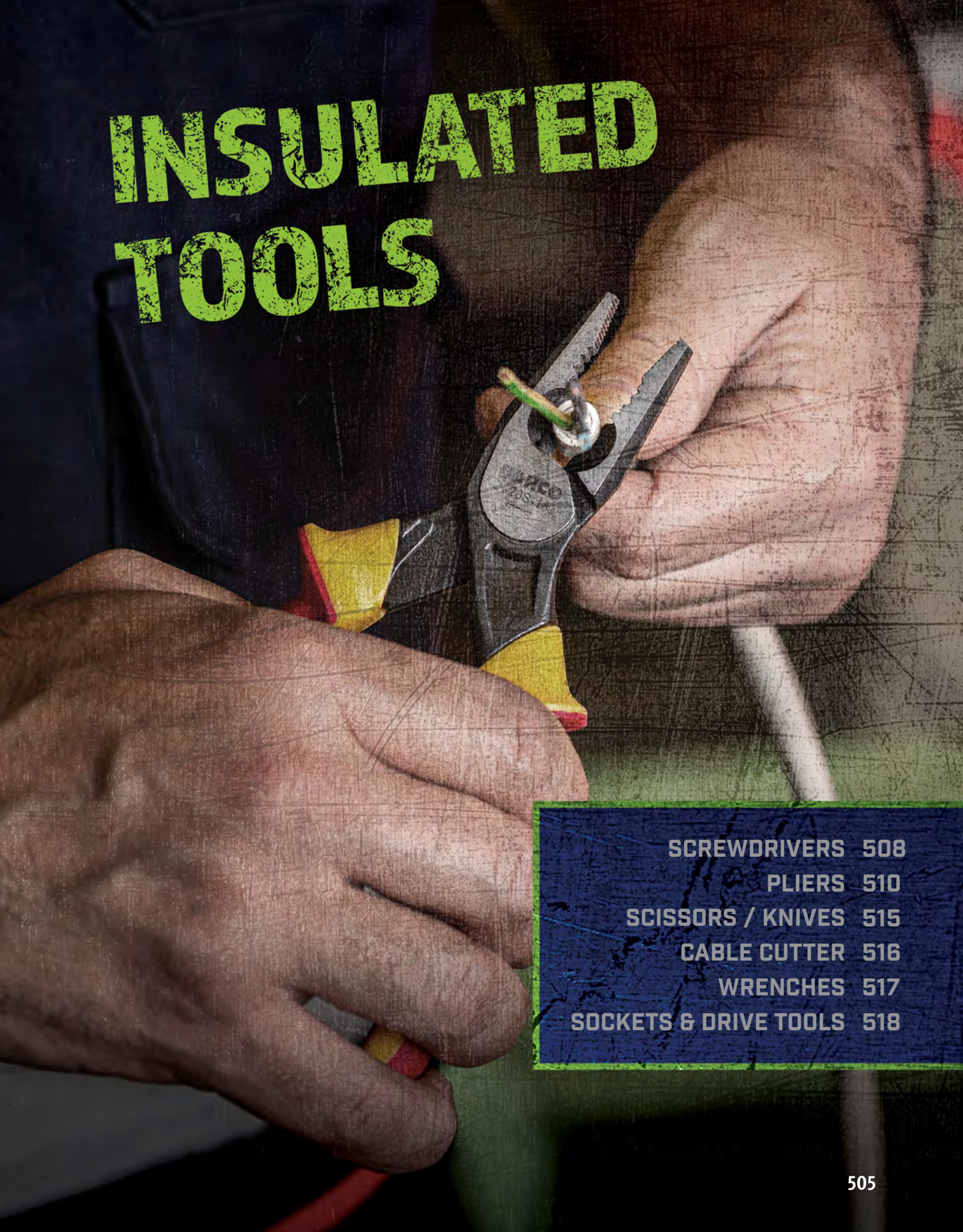
Features

- General purpose work gloves
- A thin PU material gives that user better touch and feel

GL008-10US

WARNING

INSULATED TOOLS



SCREWDRIVERS 508
PLIERS 510
SCISSORS / KNIVES 515
CABLE CUTTER 516
WRENCHES 517
SOCKETS & DRIVE TOOLS 518

WILLIAMS®

Bahco's three-layer insulated tools have a color coded, multi layer insulation coating. This provides protection as well as creating a visual warning system. If the outer insulation layer gets damaged, the lighter color underneath will become visible and warn the user. This makes it easier to detect damage to the insulation.

1000 V IEC60900

Quality guarantee

Bahco is one of the few hand-tool manufacturers that make the tools and the insulation in-house. Both the PVC dipped insulated version (most of the tools) and the handle version (pliers and screwdrivers) are manufactured entirely in Bahco factories.

Each tool is tested to 10,000 V for a period of 10 seconds to provide a high level of protection during live work.

Routine tests in accordance with IEC60900 specification

Dielectric test
The tools are immersed in water for 24 hours. A voltage of 10 kV is then continuously applied for 3 minutes. The test is considered successful if no electrical puncture, spark over, or flashover occurs during the test period. Leakage limits must not be exceeded.

Impact test
The tools are cooled to -25°C for 2 hours. Then, a special hammer is used with some force on the insulating layer. The test is considered successful if the insulating material shows no breaks and passes the dielectric test.

Insulation adhesion test
The tools are stored at a temperature of 70°C for 168 hours. Then, a force of 490 N is applied in the direction of the line dividing the insulating material from the conductive part for 3 minutes. During this test the insulation material must stay firmly attached to the tools.

Flame test
When placed over a fire, where the height of the flames on the tools does not exceed 120 mm, if the insulation material does not melt or leak, then the test is passed.

Retaining force test
This test is applied to tools that can be assembled. A force is applied to the assembled parts in an effort to separate them. If, after a minute, the parts remain assembled, the test is passed.

Permanent marking durability
The markings are rubbed for 15 seconds with a rag soaked in water, and then for 15 seconds with a rag soaked in isopropanol. The test is passed if, after this process, the markings are still legible.

Penetration test
The insulated surfaces of the tools are pressed with a special device. A voltage of 5000 V is then applied to the tool for 3 minutes. The test is considered successful if no electrical puncture, spark-over, or flash-over occurs during the test period.

Visual and dimensional
The tools, and in particular the insulation, are visually controlled and have to be free from external defects. The markings have to be perfectly legible and the dimensions have to be in accordance with the standard.

INSULATED TOOLS

1000V ERGO™ SLOTTED SCREWDRIVERS

YOUR SAFETY IS OUR HIGHEST PRIORITY

Color coded handles indicates tip type and show tip type symbol on the domed end for quick identification (except small sizes from 2.5 to 3.5)

Integrated hanging hole

The three component ergonomically designed handle for maximum user comfort, soft material with ridged surface provides superior grip and greater force transmission

Anti-roll flat face on handle

Standards: ISO 2380/DIN 5264

Individually inspected and manufactured according to IEC 60900, tested in a water bath at 10000 V

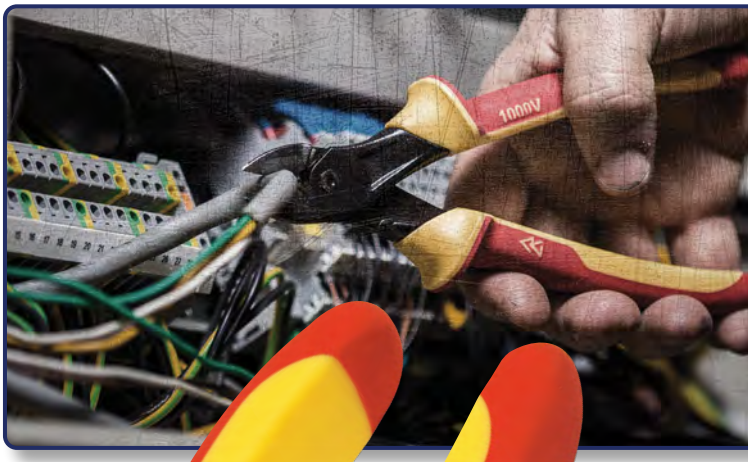
For work on live equipment up to 1000 V

High-performance alloy steel

Insulation molded directly onto blade

Black oxide tips prevent chipping of chrome to reduce possible contamination at work location

1000V ERGO™ DIAGONAL CUTTING PLIERS



Two-component insulated handles with thumb stops require less effort than conventional cutting pliers and provides superior grip

Heavy-duty induction hardened cutting edge suitable for cutting Cu, Fe+ and piano wire. Made from specially hardened steel to stay sharp longer

Phosphate finish, anti-corrosion treated

Edges near the joint are shaped for cutting hard materials and towards the tip they are adapted for soft materials and for stripping wires of thinner dimensions

Round-shaped jaws give improved accessibility in confined spaces

BAHCO® 7 PIECE INSULATED RATCHETING SCREWDRIVER SETS

A must have tool for electricians.

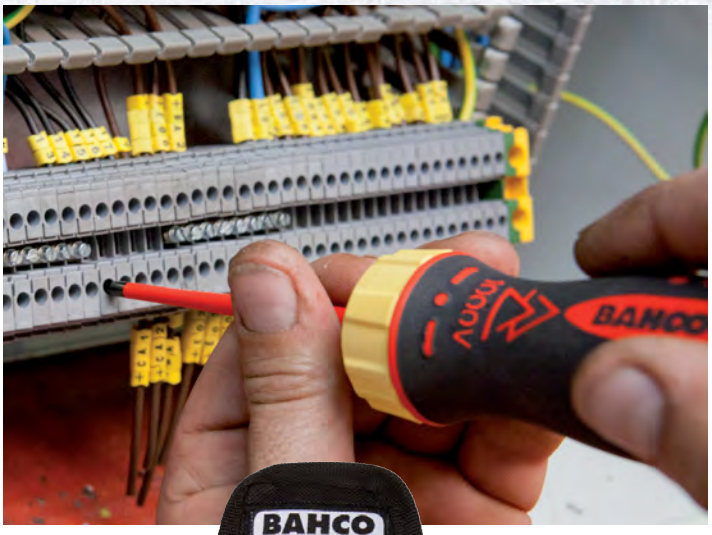
Product Code	Style	Blade Tip Sizes Included
808061	Phillips® and Slotted Blades	PH1, PH2, 0.4 x 2.5, 0.5 x 3.0, 0.8 x 4.0, 1.0 x 5.5, Handle
808062	Pozidriv® and Slotted Blades	PZ1, PZ2, 0.4 x 2.5, 0.5 x 3.0, 0.8 x 4.0, 1.0 x 5.5, Handle

Features

- The blade release system built in the comfortable handle makes it easy and safe to change the slim blades without the blades falling out
- The blades are 30% slimmer than the blade of a regular insulated screwdriver for better accessibility and more applications such as sunken screws and spring elements
- For working on live equipment up to 1000 volts
- Complete with roll up pouch with clear 1000v indication
- IEC 60900 compliant

1000V

The blade release system built in the comfortable handle makes it easy and safe to change the slim blades without the blades falling out. The blades are 30% slimmer than the blade of a regular insulated screwdriver for better accessibility and more applications (e.g. sunken screws and spring elements). A must have tool for electricians.



808061

RATCHETING
The handle has a 48 tooth non-conductive ratcheting mechanism.

⚠WARNING

BAHCO® ERGO™ 1000V SCREWDRIVERS

- For work on live equipment up to 1000 volts
- The three component ergonomically designed handle provides comfort and maximum grip even with oily hands
- Color coded handles indicate tip type. Tip type symbol is also printed on bottom of handle for quick identification
- Chrome blades prevent corrosion and can be easily cleaned
- Black oxide tips prevent chipping of chrome to reduce possible contamination at work location

BE-9881S

BE-8040S

BE-8621S

BE-8220S

BAHCO® ERGO™ 5 PIECE 1000V SCREWDRIVER SET

Three Component Handle with Black Oxide Tips

Product Code	Description
BE-9881S	5 Piece ERGO™ Screwdriver Set Phillips® / Slotted

Contents Include:

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip Width /Point Size
BE-8220S	9	4	1/8
BE-8040S	8 3/4	4	5/32
BE-8050S	8 3/4	4	7/32
BE-8610S	8	3 5/32	#1
BE-8620S	8 3/4	4	#2

Features

- Contains 3 slotted and 2 Phillips® screwdrivers

1000V VDE GS

BAHCO® ERGO™ 1000V SLOTTED SCREWDRIVERS

Three Component Handle with Black Oxide Tips

Product Code	Overall Length (Inches)	Blade Length (Inches)	Tip Width (Inches)
BE-8010S	8	3	3/32
BE-8220S	8 3/4	4	1/8
BE-8230S	9 3/4	5	9/64
BE-8040S	8 3/4	4	5/32
BE-8050S	9 3/4	5	7/32
BE-8255S	10 3/4	6	1/4
BE-8065S	11 3/4	7	5/16

1000V VDE GS

BAHCO® ERGO™ 1000V PHILLIPS® SCREWDRIVERS

Three Component Handle with Black Oxide Tips

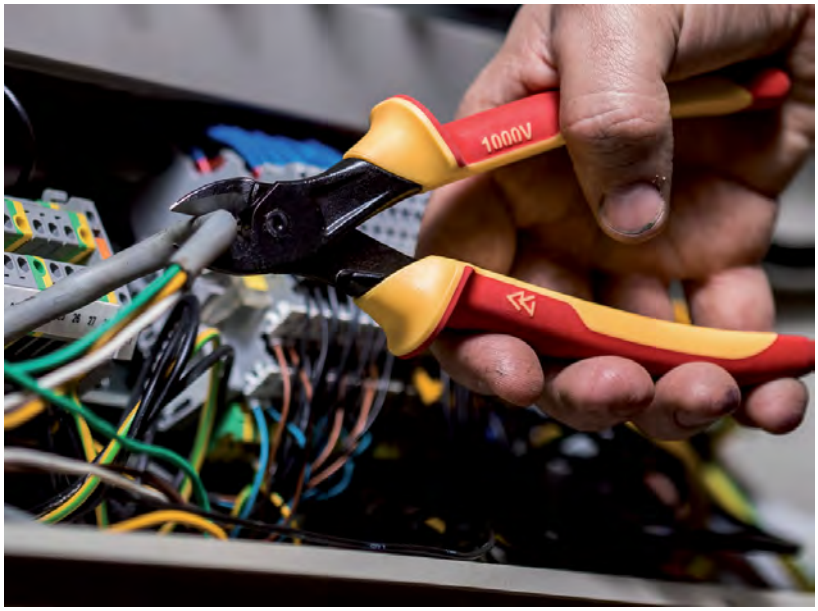
Product Code	Overall Length (Inches)	Blade Length (Inches)	Point Size
BE-8600S	6 3/8	2 3/8	0
BE-8610S	8	3 5/32	1
BE-8620S	8 3/4	4	2
BE-8630S	10 3/4	6	3
BE-8640S **	14 1/4	8	4

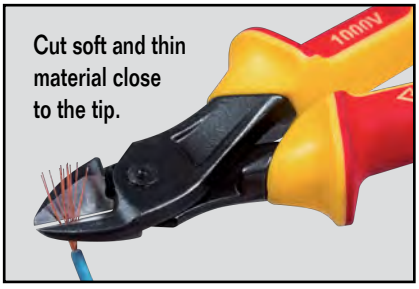
** Dual grip handle for two-handed operation provides extra torque when necessary

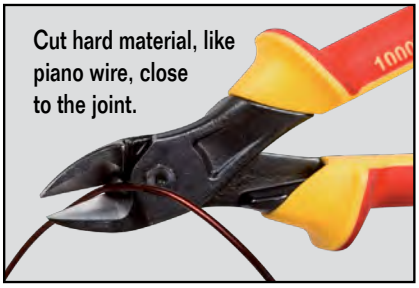
1000V VDE GS

2 PLIERS IN 1

The ERGO™ side cutting pliers have a progressive edge. Effectively, this means you can cut soft, thin wire close to the tip, and hard wire close to the screw. At the tip, the cutting edge is sharper so that it can cut softer materials such as copper, instead of simply squeezing them like most of the heavy duty pliers would.







BAHCO® ERGO™ 1000V SIDE CUTTING PLIERS WITH PROGRESSIVE EDGE

For working on live equipment up to 1000 volts

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Max Cutting Capacity (Inches)
2101S-140	5 1/2	5/8	1/16 Piano Wire
2101S-160	6 1/2	3/4	1/16 Piano Wire
2101S-180	7	13/16	5/64 Piano Wire

2101S-180

Features

- Two-component ERGO™ insulated handles: thermoplastic surface on tough polypropylene provides superior grip
- Suitable for cutting Cu, Fe+ and piano wire
- Insulated side cutting pliers developed according to the scientific ERGO™ process for working on live equipment up to 1000V
- Distance from joint to center of cutting edges is reduced for greater leverage and increased cutting capacity
- Cutting radius progresses along edge in order to cut hard material such as piano wire close to the joint as well as soft materials
- Screw joint provides excellent running and accurate alignment of cutting edges
- Round-shaped jaws give improved accessibility in confined spaces
- Less effort required compared to conventional cutting pliers
- Reduced shank width ideally for carrying in the pocket

1000V

WARNING

2223S-150

BAHCO® ERGO™ 1000V WIRE STRIPPING PLIERS

For working on live equipment up to 1000 volts

Product Code	Overall Length (Inches)	Jaw Length (Inches)
2223S-150	5 3/4	1 1/8

Features

- Two-component ERGO™ insulated handles: thermoplastic surface on tough polypropylene base provides superior grip
- Developed according to the scientific ERGO™ process
- For working on live equipment up to 1000 V in compliance with IEC 60900
- Stripping capacity: 0.5 mm to 5 mm
- Easy wire cutting and stripping pliers for copper and aluminum
- For stripping copper wire up to 5 mm
- High-performance alloy steel
- Phosphate finish, anti-corrosion treated
- Standards: IEC 60900
- Every tool is tested at 10,000 V for 10 seconds at the end of the manufacturing process

1000V

2421S-160

BAHCO® ERGO™ 1000V FLAT NOSE PLIERS

For working on live equipment up to 1000 volts

Product Code	Overall Length (Inches)	Jaw Length (Inches)
2421S-140	5 1/2	1 1/4
2421S-160	6 1/4	2
2421S-180	7	2 1/4

Features

- Two-component ERGO™ insulated handles: thermoplastic surface on tough polypropylene base provides superior grip
- Developed according to the scientific ERGO™ process
- For working on live equipment up to 1000 V in compliance with IEC 60900
- Tips provide good grip and improved accessibility in confined spaces
- Particularly designed for gripping flat material
- High-performance alloy steel
- Phosphate finish, anti-corrosion treated
- Standards: ISO 5745, IEC 60900

1000V

BAHCO® ERGO™ 1000V 45° CURVED NOSE PLIERS

For working on live equipment up to 1000 volts

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Max Cutting Capacity (Inches)
2427S-160	6 1/4	1 13/16	5/64 Hard Steel
2427S-200	7	2 3/4	5/64 Hard Steel

Features

- Two-component ERGO™ insulated handles: thermoplastic surface on tough polypropylene base provides superior grip
- Developed according to the scientific ERGO™ process
- For working on live equipment up to 1000 V in compliance with IEC 60900
- Cutting capacity: 2.5 mm to 3 mm copper, 1.8 mm iron, 1.4 mm to 1.6 mm iron alloy
- Half-round serrated jaws for gripping flat and round material with great accessibility in confined spaces
- Bent jaws with hardened cutting edges for cutting soft and hard wire
- High-performance alloy steel
- Phosphate finish, anti-corrosion treated
- Standards: ISO 5745, IEC 60900

1000V

2427S-200

BAHCO® ERGO™ 1000V LONG NOSE PLIERS

For working on live equipment up to 1000 volts

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Max Cutting Capacity (Inches)
2430S-140	5 1/2	1 1/4	1/16 Hard Steel
2430S-160	6 1/4	1 5/16	1/16 Hard Steel
2430S-200	7	2 3/4	5/64 Hard Steel

Features

- Two-component ERGO™ insulated handles: thermoplastic surface on tough polypropylene base provides superior grip
- Developed according to the scientific ERGO™ process
- For working on live equipment up to 1000 V in compliance with IEC 60900
- Cutting capacity: 2.5 mm to 3 mm copper, 1.8 mm iron, 1.4 mm to 1.6 mm iron alloy
- Half-round serrated jaws for gripping flat and round material with great accessibility in confined spaces
- Straight jaws with hardened cutting edges for cutting soft and hard wire
- High-performance alloy steel
- Phosphate finish, anti-corrosion treated
- Standards: ISO 5745, IEC 60900

1000V

2430S-200

WARNING

2521S-160

BAHCO® ERGO™ 1000V 45° ROUND NOSE PLIERS

For working on live equipment up to 1000 volts

Product Code	Overall Length (Inches)	Jaw Length (Inches)
2521S-140	5 1/2	1 1/8
2521S-160	6 1/4	1 1/4

Features

- Two-component ERGO™ insulated handles: thermoplastic surface on tough polypropylene base provides superior grip
- Developed according to the scientific ERGO™ process
- For working on live equipment up to 1000 V in compliance with IEC 60900
- Round thin tips for improved accessibility
- Specifically designed for wire bending
- High-performance alloy steel
- Phosphate finish, anti-corrosion treated
- Standards: ISO 5745, IEC 60900
- Every tool is tested at 10,000 V for 10 seconds at the end of the manufacturing process

1000V

2628S-180

BAHCO® ERGO™ 1000V COMBINATION PLIERS

For working on live equipment up to 1000 volts

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Max Cutting Capacity (Inches)
2628S-160	6 1/4	1 5/16	1/16 Hard Steel
2628S-180	7	1 7/16	5/64 Hard Steel
2628S-200	8	1 1/2	7/64 Hard Steel

Features

- Two-component ERGO™ insulated handles: thermoplastic surface on tough polypropylene base provides superior grip
- Developed according to the scientific ERGO™ process
- For working on live equipment up to 1000 V in compliance with IEC 60900
- Gripping surfaces particularly suited for flat and round material
- Special head design for better accessibility, with hardened cutting edges for cutting soft and hard wire
- High-performance alloy steel
- Phosphate finish, anti-corrosion treated
- Standards: ISO 5746, IEC 60900

1000V

BAHCO® 1000V QUICK ADJUST WATER PUMP PLIERS

For working on live equipment up to 1000 volts

Product Code	Overall Length (Inches)	Jaw Length (Inches)	Tip Width (Inches)
7224S	10	2	5/8

7224S

Features

- 1000V quick-adjust water pump pliers
- Sturdy box joint frame and slim design
- High performance alloy steel, two-component handles for maximum grip comfort
- Phosphate finish, anti-corrosion treated
- Self-adjusting patented lateral lever
- Flat and round grip shape with auto-tightening device
- Up to 35% bigger mouth opening compared to market standard
- Narrow design head for great accessibility in confined spaces
- Hardened teeth (60 HRC to 62 HRC) for a long product life and strong gripping on any shape
- Slim jaws provide easy accessibility
- Designed to prevent fingers being pinched
- ISO 8976, IEC 60900

1000V

WARNING

SC127V

SC150NGV

BAHCO® 1000V ELECTRICIAN SCISSORS

For protection against inadvertent shock when working on circuits up to 1000 volts

Product Code	Length (inches)
SC127V	5

Features

- Single layer coating (only red coating).
- Small groove in the blade for stripping cables.
- 2" cutting length.
- Guard to avoid fingers touching the metallic part by mistake.

Product Code	Length (inches)
SC150NGV	6

Features

- 2 layer coating: Red: safety. Yellow: danger
- Finger stops in both legs to avoid fingers touching the metallic part by mistake
- The longer handle allows to apply less force to cut a certain wire
- 1-1/2" cutting length

1000V

2820VP

2820VPC

2820VHELP

2820VTEE

BAHCO® 1000 V ELECTRICIAN KNIVES

For protection against inadvertent shock when working on circuits up to 1000 volts

Product Code	Description
2820VP	Knife with Straight Blade
2820VPC	Knife with Curved Blade

Features

- 3 layer coating insulation with different colors plus a 4th one in black to further protect handle edges. Red: safety. Orange: danger. Yellow: high danger
- Available in straight and curved blade versions

Product Code	Description
2820VHELP	Knife with Guide

Features

- Insulated 1000 V knife with guide
- Single layer, injection molded, with protection cap
- Special blade with cable guard show for cable dismantling
- Stainless steel blade; handle shock resistant plastic

1000V

BAHCO® 1000 V TWEEZERS

For protection against inadvertent shock when working on circuits up to 1000 volts

Product Code
2820VTEE

Features

- Double layer coating - red layer indicates safety, yellow layer indicates danger, plus a 3rd one in black to further protect handle edges

1000V

BAHCO® 1000V CABLE CUTTER

With Insulated Grips

Product Code	Overall Length (Inches)	Cable Cutting Capacity (Inches) / Description	Replacement Blade Kit
2520S	23 5/8	1 3/16 Aluminum/Copper without Messenger Wire	2520-SH

Features

- For cuts on ferrous material, only use cutting notch that is provided below top cutting blades in jaws
- Extra thick grip handles on insulated cutter provides protection up to 1000 volts

1000V

2520S

BAHCO® 1000V RATCHET ACTION CABLE CUTTER

For protection against inadvertent shock when working on circuits up to 1000 volts

Product Code	Length (inches)	Cutting Capacity (Inches)
2806-35V	9	1 ½
2806-52V	13	2

Features

- 3 layer coating insulation with different colors plus a 4th one in black to further protect handle edges. Red: safety. Orange: danger. Yellow: high danger
- One hand operation, easy release of the movable jaw
- For cutting copper and aluminum cables
- Not suitable for hard copper, steel cables, or internal steel wire cables
- Clean and smooth cut without distortion

1000V

2806-35V

3-LAYER SAFETY COATING

BAHCO® 1000V BOLT CUTTER

For protection against inadvertent shock when working on circuits up to 1000 volts

Product Code	Length (inches)	Wire types Ø mm w 80kg/mm²	120kg/mm²	160kg/mm²
2820VBC	25	9	8	7

Features

- 3 layer coating insulation with different colors plus a 4th one in black to further protect handle edges. Red: safety. Orange: danger. Yellow: high danger
- Forged head; Induction hardened cutting edges
- Long arms with lever-action head, allows cutting of hard wires with very little effort

1000V

2820VBC

3-LAYER SAFETY COATING

WARNING

BAHCO® 1000V ADJUSTABLE WRENCHES

For protection against inadvertent shock when working on circuits up to 1000 volts

8071V

Product Code	Length (inches)	Max Jaw Opening (Inches)	Head Thickness (Inches)
8070V	6	3/4	7/16
8071V	8	1 1/16	1/2
8072V	10	1 3/16	5/8
8073V	12	1 5/16	3/4
8074V	15	1 3/4	15/16

Features

- 3 layer coating insulation with different colors plus a 4th one in black to further protect handle edges. Red: safety. Orange: Caution. Yellow: danger
- Material: Chrome-Vanadium steel
- The movable jaw slides easily by smoothly operating the thumb screw
- Complies with ISO and ANSI torque requirements
- Head dimensions comply with ISO 6787 standards

1000V

BAHCO® 1000V OPEN END WRENCH - METRIC

For protection against inadvertent shock when working on circuits up to 1000 volts

6MV

Product Code	Size (mm)	Overall Length (Inches)	Open End Width (Inches)	Open End Thickness (Inches)	Layers Coating
6MV6	6	3 5/8	9/16	1/8	2
6MV7	7	3 5/8	11/16	1/8	2
6MV8	8	3 5/8	11/16	3/16	2
6MV9	9	3 7/8	13/16	3/16	2
6MV10	10	4 1/4	15/16	3/16	2
6MV11	11	4 9/16	1	3/16	2
6MV12	12	5	1 1/8	3/16	2
6MV13	13	5 5/16	1 1/4	3/16	2
6MV14	14	5 1/2	1 1/4	1/4	2
6MV15	15	6	1 1/4	1/4	2
6MV16	16	6 3/16	1 1/4	1/4	2
6MV17	17	6 3/8	1 7/16	1/4	3
6MV18	18	6 2/3	1 9/16	1/4	3
6MV19	19	6 7/8	1 5/8	1/4	3

Features

- 2 layer coating insulation with different colors plus a 3rd one in black to further protect handle edges on spanners from 6 mm to 16 mm. Red: safety. Yellow: danger
- 3 layer coating insulation with different colors plus a 4th one in black to further protect handle edges on spanners from 17 mm to 32 mm. Red: safety. Orange: danger. Yellow: high danger
- Material: Chrome-Vanadium steel
- Opening tolerance according to ISO 691

1000V

BAHCO® VOLTAGE TESTER

Clear transparent plastic hand, impact resistant

806-1-1

Product Code	Overall Length (Inches)	Blade Length (Inches)	Size (Inches)
806-1-1	6	3 1/3	1/8

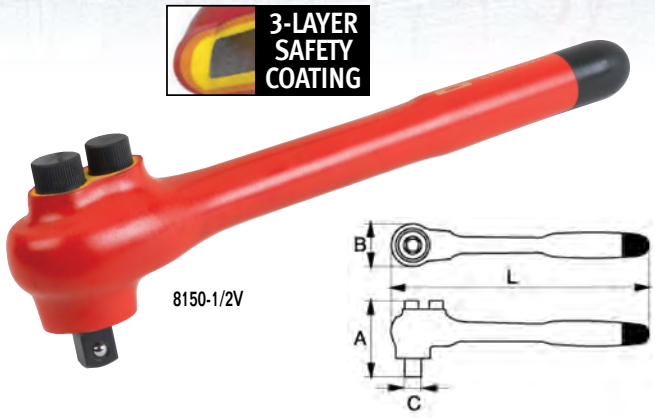
Features

- Mains tester 150-250V
- Handle is clear transparent plastic handle, impact resistant
- Blade is high quality steel, Nickel plated blade. Plastic protection up to the tip

BAHCO® 1000V 1/2" RATCHET

For protection against inadvertent shock when working on circuits up to 1000 volts

Product Code	Length (inches)	Head Width A (Inches)	Head Thickness B (Inches)	Drive Size C (Inches)
8150-1/2V	10 ½	3	2	½



8150-1/2V

Features

- 3 layer coating insulation with different colors plus a 4th one in black to further protect handle edges. Red: safety. Orange: danger. Yellow: high danger
- Material: Chrome-Vanadium steel
- One of the buttons is a lever to change the ratcheting direction; the other is a push button to lock or release the socket to the male square drive
- 28 teeth ratchet to operate at a 13° angle
- Static and endurance tests with 50,000 cycles
- Complies with the ISO standards

1000V

BAHCO® 1000V 1/2" EXTENSION

For protection against inadvertent shock when working on circuits up to 1000 volts

Product Code	Length (inches)
8160-1/2V	5

8160-1/2V

Features

- 2 layer coating insulation with different colors. Red: safety. Yellow: danger
- Material: Chrome-Vanadium steel
- The male square drive is having a slotted screw to move the ball outward or inward and block or unblock the socket to it
- The male square tolerances and torque requirements comply with the respective ISO standard

1000V

BAHCO® 1000V 1/2" DRIVE SOCKETS - METRIC

For protection against inadvertent shock when working on circuits up to 1000 volts

Product Code	Size (mm)	Overall Length (Inches)	Drive End Diameter (Inches)	Working End Diameter (Inches)	Nose Length (Inches)
7800DMV-8	8	2	⅞	⅔	¼
7800DMV-10	10	2	⅞	¾	¼
7800DMV-11	11	2	⅞	¾	¼
7800DMV-12	12	2	⅞	¾	¼
7800DMV-13	13	2	⅞	1	¼
7800DMV-14	14	2	⅞	1	⅜
7800DMV-15	15	2	⅞	1	⅜
7800DMV-16	16	2	⅞	1	⅜
7800DMV-17	17	2	⅞	1 ⅛	⅜
7800DMV-18	18	2	⅞	1 ⅛	½
7800DMV-19	19	2	⅞	1 3⁄16	½

7800DMV

Features

- 2 layer coating insulation with different colors
- Material: Chrome-Vanadium steel
- 12 point Dynamic Drive Profile
- Both square and 12 point openings according to the tolerance and torque requirements given in ISO standards

1000V

⚠WARNING

INCH	DECIMAL	MILLIMETER
1/64	.0156	0.397
1/32	.0312	0.794
	.0394	1.000
3/64	.0469	1.191
1/16	.0625	1.587
5/64	.0781	1.984
	.0787	2.000
3/32	.0937	2.381
7/64	.1094	2.778
	.1181	3.000
1/8	.1250	3.175
9/64	.1406	3.572
5/32	.1562	3.969
	.1575	4.000
11/64	.1719	4.366
3/16	.1875	4.762
	.1968	5.000
13/64	.2031	5.159
7/32	.2187	5.556
15/64	.2344	5.953
	.2362	6.000
1/4	.2500	6.350
17/64	.2656	6.747
	.2756	7.000
9/32	.2812	7.144
19/64	.2969	7.541
5/16	.3125	7.937
	.3150	8.000
21/64	.3281	8.334
11/32	.3437	8.731
	.3543	9.000
23/64	.3594	9.128
3/8	.3750	9.525
25/64	.3906	9.922
	.3937	10.000
13/32	.4062	10.319
27/64	.4219	10.716
	.4331	11.000
7/16	.4375	11.112
29/64	.4531	11.509
15/32	.4687	11.906
	.4724	12.000
31/64	.4844	12.303
1/2	.5000	12.700
	.5118	13.000
33/64	.5156	13.097
17/32	.5312	13.494
35/64	.5469	13.891
	.5512	14.000
9/16	.5625	14.287
37/64	.5781	14.684
	.5906	15.000
19/32	.5937	15.081
39/64	.6094	15.478
5/8	.6250	15.875
	.6299	16.000
41/64	.6406	16.272
21/32	.6562	16.669
	.6693	17.000
43/64	.6719	17.066
11/16	.6875	17.462
45/64	.7031	17.859
	.7087	18.000
23/32	.7187	18.256
47/64	.7344	18.653
	.7480	19.000
3/4	.7500	19.050
49/64	.7656	19.447
25/32	.7812	19.844
	.7874	20.000
51/64	.7969	20.241
13/16	.8125	20.637
	.8268	21.000
53/64	.8281	21.034
27/32	.8437	21.431
55/64	.8594	21.828
	.8661	22.000
7/8	.8750	22.225
57/64	.8906	22.622
	.9055	23.000
29/32	.9062	23.019
59/64	.9219	23.416
15/16	.9375	23.812
	.9449	24.000
61/64	.9531	24.209
31/32	.9687	24.606
	.9843	25.000
63/64	.9844	25.003
	1.0000	25.400

MILLIMETERS	INCHES
26	1.0236
27	1.0630
28	1.1024
29	1.1417
30	1.1811
31	1.2205
32	1.2598
33	1.2992
34	1.3386
35	1.3780
36	1.4173
37	1.4567
38	1.4961
39	1.5354
40	1.5748
41	1.6142
42	1.6535
43	1.6929
44	1.7323
45	1.7717
46	1.8110
47	1.8504
48	1.8898
49	1.9291
50	1.9685
51	2.0079
52	2.0472
53	2.0866
54	2.1260
55	2.1654
56	2.2047
57	2.2441
58	2.2835
59	2.3228
60	2.3622
61	2.4016
62	2.4409
63	2.4803
64	2.5197
65	2.5591
66	2.5984
67	2.6378
68	2.6772
69	2.7165
70	2.7559
71	2.7953
72	2.8346
73	2.8740
74	2.9134
75	2.9528
76	2.9921
77	3.0315
78	3.0709
79	3.1102
80	3.1496
81	3.1890
82	3.2283
83	3.2677
84	3.3071
85	3.3465
86	3.3858
87	3.4252
88	3.4646
89	3.5039
90	3.5433
91	3.5827
92	3.6220
93	3.6614

MILLIMETERS	INCHES
94	3.7008
95	3.7402
96	3.7795
97	3.8189
98	3.8583
99	3.8976
100	3.9370
110	4.3307
120	4.7244
130	5.1181
140	5.5118
150	5.9055
160	6.2992
200	7.8740
300	11.8110
400	15.7480
500	19.6850
600	23.6220
700	27.5591
800	31.4961
900	35.4331
1000	39.3701

INCH POUNDS	NEWTON METERS
5	0.565
10	1.13
15	1.70
20	2.26
25	2.83
30	3.39
35	3.96
40	4.52
45	5.09
50	5.65
60	6.78
70	7.91
80	9.04
90	10.17
100	11.3
110	12.4
120	13.6
130	14.7
140	15.8
150	17.0
160	18.1
170	19.2
180	20.3
190	21.5
200	22.6

FOOT POUNDS	NEWTON METERS
1	1.356
2	2.7
3	4.0
4	5.4
5	6.8
6	8.1
7	9.5
8	10.8
9	12.2
10	13.5
11	14.9
12	16.3
13	17.6
14	18.9
15	20.3
16	21.7
17	23.0

FOOT POUNDS	NEWTON METERS
18	24.4
19	25.8
20	27.1
21	28.4
22	29.8
23	31.2
24	32.5
25	33.9
26	35.3
27	36.6
28	38.0
29	39.3
30	40.7
31	42.0
32	43.4
33	44.7
34	46.1
35	47.5
36	48.8
37	50.2
38	51.5
39	52.9
40	54.2
41	55.6
42	56.9
43	58.3
44	59.7
45	61.0
46	62.4
47	63.7
48	65.0
49	66.4
50	67.8
51	69.1
52	70.5
53	71.9
54	73.2
55	74.6
56	75.9
57	77.3
58	78.6
59	80.0
60	81.3
61	82.7
62	84.0
63	85.4
64	86.8
65	88.1
66	89.5
67	90.8
68	92.2
69	93.5
70	94.9
71	96.3
72	97.6
73	99.0
74	100.3
75	101.7
76	103.0
77	104.4
78	105.8
79	107.1
80	108.5
81	109.8
82	111.2
83	112.5
84	113.9

FOOT POUNDS	NEWTON METERS
85	115.2
86	116.6
87	117.9
88	119.3
89	120.7
90	122.0
91	123.4
92	124.7
93	126.0
94	127.4
95	128.8
96	130.2
97	131.5
98	132.9
99	134.2
100	135.6
110	149.0
115	156.0
120	163.0
125	170.0
130	176.0
135	183.0
140	190.0
145	197.0
150	203.0
155	210.0
160	217.0
165	224.0
170	231.0
175	237.0
180	244.0
185	251.0
190	258.0
195	264.0
200	271.0
225	305.0
250	339.0
275	373.0
300	407.0
350	474.0
400	542.0

HEX SOCKET CONVERSIONS

10mm=0.394"

11mm=0.433"

12mm=0.472"

13mm=0.512"

14mm=0.551"

15mm=0.591"

16mm=0.630"

17mm=0.669"

18mm=0.704"

19mm=0.748"

20mm=0.787"

21mm=0.827"

Inch Lbs. x 0.113=Nm; Nm x 8.849=Inch Lbs.; Ft. Lbs x 1.356=Nm; Nm x 0.737=Ft. Lbs.

Important Words About Safety for Users and Bystanders

Following these basic safety rules is a good start toward protecting yourself — and others in the vicinity — from injury while using tools.

Wear safety goggles
Use the right tool
Use the tool properly
Maintain the tool regularly
Keep tools away from children
Do not use tools on live electrical circuits unless specifically designed for such use
Read and follow instructions

THIS SYMBOL INDICATES PROHIBITED ACTION

DO NOT OVER-TORQUE NO PIPES OR LEVER EXTENSIONS

NO HAMMERING

NO PRYING

DO NOT STRIKE HARD OBJECTS

NO IMPACT/POWER DRIVE

DO NOT STEP IN OR ON DRAWERS

DO NOT OPEN MULTIPLE DRAWERS

DO NOT PULL TO MOVE

KEEP CHILDREN AWAY

THIS SYMBOL INDICATES MANDATORY ACTION

MANDATORY EAR PROTECTION

MANDATORY FACE SHIELD

MANDATORY MASK

MANDATORY RESPIRATOR

MANDATORY PROTECTIVE CLOTHING

MANDATORY PROTECTIVE GLOVES

MANDATORY EYE PROTECTION

MUST READ INSTRUCTIONS BEFORE USE

⚠WARNING

THIS SYMBOL INDICATES A HAZARD ALERT, GENERAL WARNING SIGN

VIBRATION HAZARD

RISK OF EXPLOSION

OVERHEAD/ OVERLOAD HAZARD

RISK OF ELECTRIC SHOCK

RISK OF FIRE

RISK OF ENTANGLEMENT

Safety messages in this catalog use the guidelines of the American National Standard ANSI Z535.4 for Product Safety Signs and Labels and ANSI Z535.3 Criteria for Safety Symbols. Messages associated with specific products use a triangular hazard alert symbol, signal word (CAUTION, WARNING, DANGER) and how to avoid the hazard. Each message refers to pages (754-756) which provides additional safety symbols and three-part messages advising of:

- The hazard
- **How to avoid the hazard**
- *The probable consequence of not avoiding the hazard*

PLEASE READ AND FOLLOW these messages to avoid injury to yourself and bystanders.

* These symbols are excerpted from ISO 7010: 2011 with the permission of ANSI on behalf of ISO. © ISO 2014 - All rights reserved.

Electrical, Electronic Service

(pliers, cutters, mini-torch)

⚠WARNING

- Broken tips or cut material can fly.

Wear safety shield. (User and bystanders)

Flying material can cause injury.

- Material can cause sparks or flying particles when heated.

Wear safety goggles. (User and bystanders)

Sparks and flying particles can cause injury.

- Butane will explode or burn when ignited.

Do not store butane at a temperature above 120°.

Hold Butane away from body and face.

Explosion or flames can cause injury.

- Electrical shock hazard.

Do not use on live electrical circuits.

Electrical shock can cause injury.

Extractors

⚠WARNING

- Drilling pilot holes, inserting extractors and using extractors can cause flying chips. Extractors can break if overloaded.

Wear safety goggles. (User and bystanders)

For hand use only.

Flying chips and broken tools can cause injury.

Gear Head Torque Multipliers

⚠WARNING

- Use of gear head torque multipliers for torque control may result in inaccurate torque application.

For accurate control of torque use an Electrotork®, a Torqometer® or other measuring device located directly on the fastener.

Limited accuracy of the torque ratio of a gear head torque multiplier may cause improper preload of the fastener if it is used for torque control.

Hand Tools

⚠WARNING

- Chrome and industrial finish hand tools can break if overloaded or used for the wrong application.

Wear safety goggles. (User and bystanders)

Do not use chrome or industrial finish hand tools with power drivers.

Use only impact sockets and accessories with impact wrenches.

Use only power sockets and accessories with power wrenches.

Broken hand tools, sockets or accessories can cause injury.

- Electrical shock hazard.

Do not use on live electrical circuits.

Electrical shock can cause injury.

Impact Drivers

⚠WARNING

- Impact drivers can cause tool breakage or flying objects.

Wear safety goggles. (User and bystanders)

Flying objects can cause injury.

Wear hearing protection. (User and bystanders)

Knives

⚠WARNING

- Blades are sharp and can cut. Blades can break causing flying objects.

Wear safety goggles. (User and bystanders)

Do not pry or bend blade.

Keep away from children.

Sharp edges and flying objects can cause injury.

Nut Splitters

⚠WARNING

- Use of impact wrench can cause nut splitter to break.

Wear safety goggles. (User and bystanders)

Do not use with impact wrench.

Broken tools can cause injury.

Plastic Handled Tools

⚠WARNING

- Plastic handles do not protect from electrical shock.

Do not use on live electrical circuits.

Electrical shock can cause injury.

Pliers/Cutters

⚠WARNING

- Broken tips or cut material can fly.

Wear safety goggles. (User and bystanders)

Flying material can cause injury.

Prybars

⚠WARNING

- Prying can cause flying chips. Chipped or cracked prybars can cause flying chips. Prybars can chip if struck.

Wear safety goggles. (User and bystanders)

Do not use pipe or lever extension.

Do not use a prybar if chipped or cracked.

Do not use a prybar as a punch or hammer.

Flying chips can cause injury.

Pullers, Presses

⚠WARNING

- Puller parts under stress can break.

Wear safety goggles. (User and bystanders)

Broken parts can cause injury.

Ratchets

⚠WARNING

- Ratchet mechanism may slip or break if dirty. Mismatched or partially worn parts can cause ratchet to slip or break.

Frequently inspect, clean and lubricate all non-sealed ratchet mechanisms with light oil.

Do not immerse sealed ratchet in fluids.

Do not replace worn parts individually, use entire contents of the service kit.

Ratchets that slip or break can cause injury.

Riveting, Sanding, Door Tools

⚠WARNING

- Riveting and nut setting tools can cause flying chips.

Wear safety goggles. (User and bystanders)

Flying chips can cause injuries.

Scrapers

⚠WARNING

- Scrapers and putty knives can break if used for prying or chiseling.

Wear safety goggles. (User and bystanders)

Do not use a scraper or putty knife as a prybar or chisel.

Broken tools can cause injury.

Screwdrivers

⚠WARNING

- Screwdrivers can break if used as prybar, chisel or punch.

Wear safety goggles. (User and bystanders)

Do not use a screwdriver as a prybar, chisel or punch.

Broken screwdriver can cause injury.

Socket Usage

Select the proper type of socket for the application.

⚠WARNING

- **Hand Sockets** - All chrome plated sockets and black finished sockets identified as hand sockets are for hand use only.

- **Impact Sockets** - Sockets designed for durability when used with impact drivers; use only impact sockets with impact drivers.

Wear safety goggles. (Users and bystanders)
Broken tools can cause injury.

Storage Units

⚠WARNING

- Storage units can tip or strike you.

Do not open more than one loaded drawer at a time.

Keep children away.

Close lid and lock drawers and doors before moving.

Apply brakes on locking casters when not moving unit.

Do not step in or on drawers.

Secure units together with fasteners.

Read and follow instruction manual.
Tipping of storage unit or unit striking you can cause injury.

- Units edges can cut or pinch.

Do not pull; push to move.

Wear gloves when lifting by edges.

Keep feet and fingers clear of edges when stacking, hanging or moving units.
Unit edges can cause injury.

Striking and Struck Tools, Punches/Chisels

⚠WARNING

- Striking and struck tools can break or chip. Chipped or mushroomed punch and chisel ends or metal weakened by improper grinding can fragment.

Oversized hammer can chip the punch or chisel.
Wear safety goggles. (Users and bystanders)
Do not use punch or chisel having mushroomed ends; dress edges or mushroomed ends to original shape with a hand file.
Hammer head diameter should be approximately 3/8" larger than head of punch or chisel.
Flying objects can cause injury.

- Steel punches and chisels can cause sparks during use.

Do not use near flammable substance.
Flammable substances can ignite causing injury.

Power Tools

(impact wrenches, ratchets, hammers, sanders, grinders, cut-off tools)

⚠WARNING

- Power tools can cause flying particles

Wear safety goggles (user and bystanders).
Flying particles can cause injury.

- Power tools generate noise

Wear hearing protection (user and bystanders).
Prolonged exposure to noise can cause hearing loss.

- Power tools vibrate

Avoid prolonged exposure to vibration.
Prolonged exposure to vibration can cause injury.

- Improper use of power tools and accessories can cause broken tools

Do not use without all guards in place.
Use accessories rated at tool RPM or higher.
Read and follow instructions before using power tools.

- Broken tools can cause injury.

Hammers

⚠WARNING

- Hammers can cause flying chips. Chipped, mushroomed or cracked hammers can cause flying chips. Glancing blows can cause flying chips. Striking hard surface can cause flying chips. Body hammers can chip or break if struck against hard surfaces.

Wear safety goggles. (Users and bystanders)
Do not use chipped, mushroomed or cracked hammers.
Strike squarely and avoid glancing blows.
Do not strike other hammers or similar hard surfaces.
Use body hammers only for striking automotive type sheet metal; do not strike hard surfaces.
Flying chips can cause injury.

- Steel hammers can cause sparks during use.

Do not use near flammable substance.
Flammable substances can ignite causing injury.

- COMPOTHANE® or urethane hammers can rupture or ignite if exposed to liquid oxygen.

Do not use COMPOTHANE® or urethane hammers near liquid oxygen.
Ruptured and/or ignited COMPOTHANE® or urethane can cause injury.

Threading

⚠WARNING

- Threading and rethreading tools can cause flying chips.

Wear safety goggles. (Users and bystanders)
Flying chips can cause injury.

Torque Testers

⚠WARNING

- Calibration weights can cause tester and its base to tip.

Wear safety goggles. (Users and bystanders)
Counterbalance or anchor mounting base.
Tipping base can cause injury.

Torque Wrenches

⚠WARNING

- Overtorquing can cause breakage. Wrench can break while breaking fasteners loose. Force against flex stops on flex head torque wrenches can cause head breakage. An out of calibration torque wrench can cause part or tool breakage.

Wear safety goggles. (Users and bystanders)
Do not exceed rated torque.
Do not use a torque wrench to break fasteners loose.
Do not force head of flex head torque wrenches against stops.
Periodic recalibration is necessary to maintain accuracy.
Broken tools can cause injury.

Wrenches

⚠WARNING

- Excess force can cause crowfoot or flare nut wrench slippage.

Do not over-torque, no pipes or lever extensions.
Use only moderate force on crowfoot and flare nut wrenches.
Broken or slipping wrenches can cause injury.

- Slimline wrenches can break if overloaded.

Wear safety goggles. (Users and bystanders)
Broken wrench jaw can cause injury.

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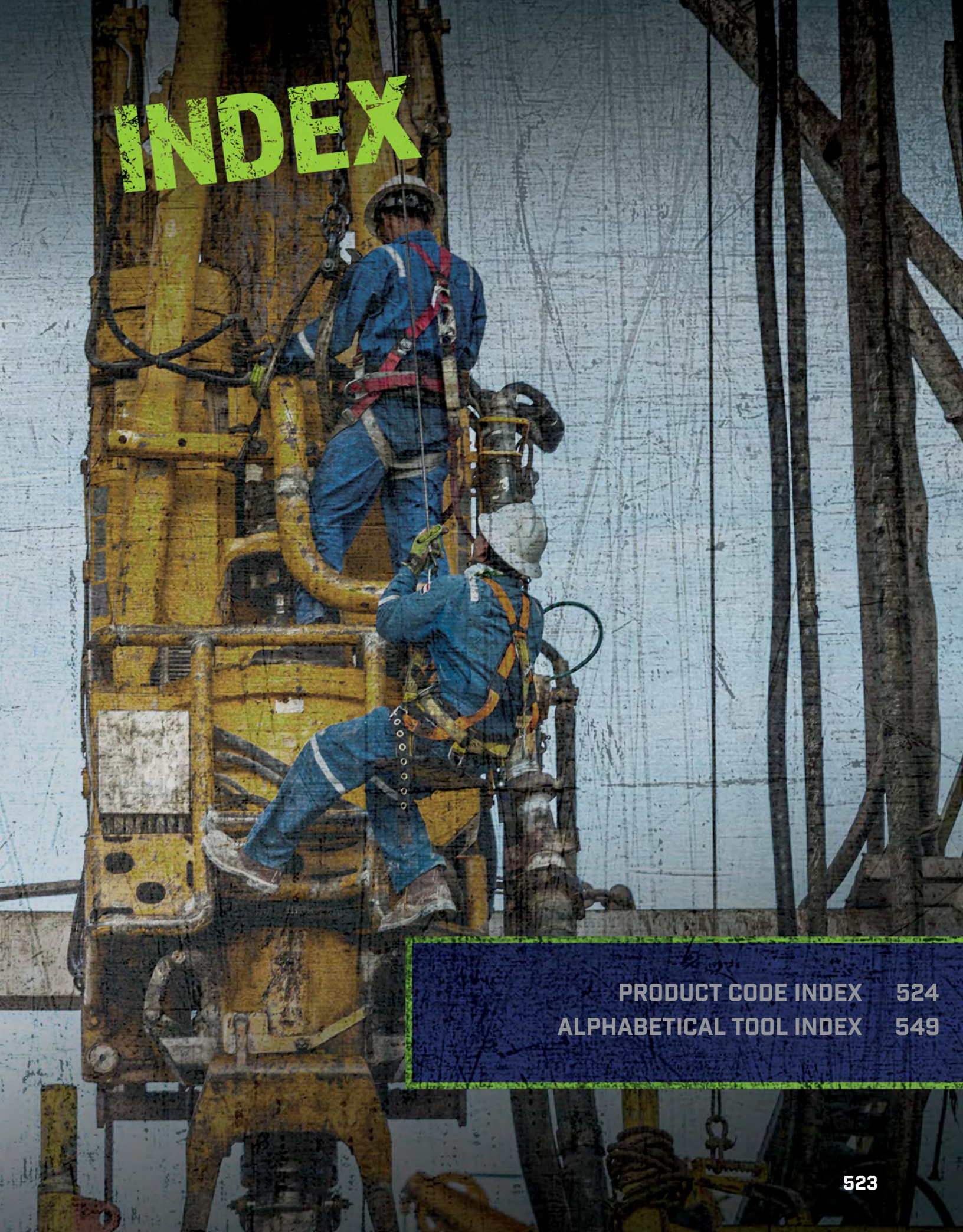

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JHW14-616	296	JHW14M-625	299	JHW17-6132	323	JHW1906-TH	104	JHW23070	359
JHW14-618	296	JHW14M-626	299	JHW17-6134	323	JHW1907	178	JHW23071	359
JHW14-620	296	JHW14M-627	299	JHW17-6136	323	JHW1907A	178	JHW23072	360
JHW14-622	296	JHW14M-629	299	JHW17-6138	323	JHW1907-TH	104	JHW23074	360
JHW14-624	296	JHW14M-630	299	JHW17-6140	323	JHW1908	178	JHW23076	360
JHW14-626	296	JHW14M-632	299	JHW17-6142	323	JHW1908A	178	JHW23080	356
JHW14-628	296	JHW14M-634	299	JHW17-6144	323	JHW1908-TH	104	JHW23201	359
JHW14-630	296	JHW14M-635	299	JHW17-6146	323	JHW1909	178	JHW23202	359
JHW14-632	296	JHW14M-636	299	JHW17-6148	323	JHW1909A	178	JHW23203	359
JHW14-634	296	JHW16-624	312	JHW17-6152	323	JHW1909-TH	104	JHW23210	359
JHW14-636	296	JHW16-626	312	JHW17-6156	323	JHW1910	178	JHW23211	359
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JHW14-640	296	JHW16-630	312	JHW17-6172	323	JHW1911	178	JHW23221	359
JHW14-642	296	JHW16-632	312	JHW17-6184	323	JHW1911A	178	JHW23222	360
JHW14-644	296	JHW16-634	312	JHW17-632	323	JHW1911-TH	104	JHW23223	360
JHW14-646	296	JHW16-636	312	JHW17-634	323	JHW1912	178	JHW23224	360
JHW14-648	296	JHW16-638	312	JHW17-636	323	JHW1912-TH	104	JHW23225	360
JHW14M-1210	300	JHW16-640	312	JHW17-638	323	JHW2-02B	253	JHW23301	360
JHW14M-1211	300	JHW16-642	312	JHW17-640	323	JHW20401	375	JHW23302	360
JHW14M-1212	300	JHW16-644	312	JHW17-642	323	JHW20402	375	JHW23302A-TH	125
JHW14M-1213	300	JHW16-646	312	JHW17-644	323	JHW204A	179	JHW23303	360
JHW14M-1214	300	JHW16-648	312	JHW17-646	323	JHW205	179	JHW23303A-TH	125
JHW14M-1215	300	JHW16-648BW	309	JHW17-648	323	JHW20542	374	JHW23304	360
JHW14M-1216	300	JHW16-650	312	JHW17-648BW	320	JHW20542-TH	127	JHW23305	360
JHW14M-1217	300	JHW16-652	312	JHW17-650	323	JHW20543	374	JHW23309	360
JHW14M-1218	300	JHW16-654	312	JHW17-652	323	JHW20543-TH	127	JHW23310	360
JHW14M-1219	300	JHW16-656	312	JHW17-654	323	JHW20544	374	JHW23310A-TH	125
JHW14M-1220	300	JHW16-658	312	JHW17-656	323	JHW20544-TH	127	JHW23320	360
JHW14M-1221	300	JHW16-660	312	JHW17-658	323	JHW20545	374	JHW23321	360
JHW14M-1222	300	JHW16-664	312	JHW17-660	323	JHW20545-TH	127	JHW23321A-TH	125
JHW14M-1223	300	JHW1721	162	JHW17-662	323	JHW20546	374	JHW2-33B	253
JHW14M-1224	300	JHW1723	162	JHW17-664	323	JHW20546-TH	127	JHW23503	355
JHW14M-1225	300	JHW1725	162	JHW17-666	323	JHW206	179	JHW23503-TH	124
JHW14M-1227	300	JHW1725B	162	JHW17-668	323	JHW20651	375	JHW23506	356
JHW14M-1229	300	JHW1727	162	JHW17-670	323	JHW20678	375	JHW23506-TH	124
JHW14M-1230	300	JHW1729	162	JHW17-672	323	JHW20678-TH	128	JHW23518	356
JHW14M-1232	300	JHW1729B	162	JHW17-674	323	JHW206B	179	JHW23521	356
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JHW23541	356	JHW28301	358	JHW30412-TH	110	JHW31152-TH	113	JHW31538	239
JHW23542	356	JHW28305	358	JHW30414-TH	110	JHW31154	239	JHW31539	239
JHW23543	356	JHW28307	358	JHW30416-TH	110	JHW31154-TH	113	JHW31612BT	241
JHW23801A	362	JHW28309	358	JHW30418-TH	110	JHW31208-TH	112	JHW31614BT	241
JHW23802A	362	JHW28351	358	JHW30604A	209	JHW31210-TH	112	JHW31616BT	241
JHW23803A	362	JHW28449	378	JHW30605A	209	JHW31212-TH	112	JHW31618BT	241
JHW23804A	362	JHW2979D-7	349	JHW30606A	209	JHW31214-TH	112	JHW31620BT	241
JHW24101	336	JHW2A-616	258	JHW30607A	209	JHW31216-TH	112	JHW31622BT	241
JHW24102	336	JHW2A-616-2	258	JHW30608A	209	JHW31218-TH	112	JHW31624BT	241
JHW24103	336	JHW2A-618	258	JHW30609A	209	JHW31220-TH	112	JHW31708BT	241
JHW24104	336	JHW2A-618-2	258	JHW30610A	209	JHW31222-TH	112	JHW31709BT	241
JHW24105	336	JHW2M-607	256	JHW30611A	209	JHW31224-TH	112	JHW31710BT	241
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JHW2427G-8	353	JHW2M-610	256	JHW30614A	209	JHW31230-TH	112	JHW31713BT	241
JHW2430G-5.5	352	JHW2M-611	256	JHW30699A	209	JHW31232-TH	112	JHW31714BT	241
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JHW24900	342	JHW2M-613	256	JHW30805	210	JHW31303	243	JHW31716BT	241
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JHW2-626	254	JHW30025	206	JHW30941	210	JHW31412-TH	112	JHW31818	247
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JHW2628G-8	349	JHW30206-TH	109	JHW31024	235	JHW31420-TH	112	JHW31934	247
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JHW32214-TH	115	JHW32532	283	JHW32908	288	JHW35053	212	JHW35186	251
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JHW32218-TH	115	JHW32536	283	JHW32943	283	JHW35070-TH	110	JHW35188	251
JHW32220-TH	115	JHW32709	285	JHW32945	285	JHW35071	211	JHW35192	251
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JHW32224-TH	115	JHW32711	285	JHW32949-TH	117	JHW35072	211	JHW35194	251
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JHW3T20TV	417	JHW41192	325	JHW472-TH	105	JHW50603B	230	JHW5ES05H1G	410
JHW40000	482	JHW41194	325	JHW474	185	JHW50604B	202	JHW5ES05H1GR	410
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JHW40052	500	JHW41200	325	JHW474A-TH	105	JHW50607B	226	JHW5ES05H2GR	410
JHW40082	501	JHW41204	325	JHW474B	185	JHW50609	270	JHW5ES10H2G	410
JHW40084	501	JHW41208	325	JHW474-TH	105	JHW50611B	199	JHW5ES10H2GR	410
JHW40150	493	JHW41212	325	JHW482	185	JHW50612B	198	JHW5ES15H3G	410
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JHW40152	502	JHW41224	325	JHW483	185	JHW50614B	197	JHW5ES15H5G	410
JHW40153	502	JHW41226	325	JHW483-TH	105	JHW50615B	228	JHW5ES15H5GR	410
JHW40154	502	JHW41228	325	JHW484	185	JHW50617B	269	JHW5G102H5G	413
JHW40155	502	JHW4-140B	293	JHW484-TH	105	JHW50619	270	JHW5HD2S100	405
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JHW40201	493	JHW42304A	493	JHW4A-622	289	JHW50662B	203	JHW5HS1S60	404
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JHW40223	369	JHW4-35B	293	JHW4A-624-2	289	JHW50665	232	JHW5HS2S35	404
JHW40224	369	JHW43603	370	JHW4A-628	289	JHW50666	231	JHW6004-TC	59
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JHW4-105A	293	JHW43621	369	JHW4M-615	297	JHW50722A	50	JHW616SC	144
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JHW41158	325	JHW4-622	294	JHW4M-624	297	JHW55TAP	415	JHW624SC	144
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JHW41166	325	JHW4-630	294	JHW4M-629	297	JHW5AS150L	406	JHW6-2C	309
JHW41168	325	JHW4-632	294	JHW4M-630	297	JHW5AS200	406	JHW6-2XS	309
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JHW41172	325	JHW4-636	294	JHW4M-634	297	JHW5AS380L	406	JHW632SC	144
JHW41174	325	JHW4-638	294	JHW4M-636	297	JHW5AS60	406	JHW6-3XS	309
JHW41176	325	JHW4-640	294	JHW4T06T	417	JHW5D73H10G	413	JHW640SC	144
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JHW6-630A	310	JHW6C25T10	392	JHW6CN100T06	395	JHW6M-638	313	JHW7-1278	322
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JHWB-1226	236	JHWBA-3HBA	249	JHWBCOM17	240	JHWBITH0805	287	JHWBM-1214	244
JHWB-1228	236	JHWBA-3LA	250	JHWBCOM18	240	JHWBITH0806	287	JHWBM-1215	244
JHWB-1230	236	JHWBA-4A	249	JHWBCOM19	240	JHWBITH1001	249	JHWBM-1216	244
JHWB-1232	236	JHWBA-4HBA	249	JHWBCOM20	240	JHWBITH1002	211	JHWBM-1217	244
JHWB-140A	234	JHWBA-4LA	250	JHWBCOM21	240	JHWBITH1004	250	JHWBM-1218	244
JHWB-140A-TH	111	JHWBA-5A	249	JHWBCOM22	240	JHWBITH1005	287	JHWBM-1219	244
JHWB-15	234	JHWBA-5A-1S	250	JHWBD-1208	242	JHWBITH1006	287	JHWBM-1220	244
JHWB-201	235	JHWBA-5HBA	249	JHWBD-1210	242	JHWBITH1201	249	JHWBM-1221	244
JHWB-203	235	JHWBA-5LA	250	JHWBD-1212	242	JHWBITH1202	250	JHWBM-1222	244
JHWB-206	235	JHWBA-6A	249	JHWBD-1214	242	JHWBITH1203	287	JHWBM-1223	244
JHWB-208	235	JHWBA-6HBA	249	JHWBD-1216	242	JHWBITH1204	287	JHWBM-1224	244
JHWB-20A	234	JHWBA-6LA	250	JHWBD-1218	242	JHWBITH1601	287	JHWBM-1226	244
JHWB-211	235	JHWBA-7A	249	JHWBD-1220	242	JHWBITH1602	287	JHWBM-605.5	244
JHWB-218	235	JHWBA-7A-1P	250	JHWBD-1222	242	JHWBITH1801	287	JHWBM-606	244
JHWB-409	238	JHWBA-7A-2P	250	JHWBD-1224	242	JHWBITH1802	287	JHWBM-607	245
JHWB-40A-TH	111	JHWBA-7A-2S	250	JHWBD-1226	242	JHWBITH2.501	210	JHWBM-608	245
JHWB-40B	234	JHWBA-7HBA	249	JHWBD-1228	242	JHWBITH2001	287	JHWBM-609	245
JHWB-52A	233	JHWBA-7LA	250	JHWBD-1230	242	JHWBITH2002	287	JHWBM-610	245
JHWB-52ARK	233	JHWBA-8A	249	JHWBD-1232	242	JHWBITH3.501	210	JHWBM-611	245
JHWB-52EHA	233	JHWBA-8HBA	249	JHWBD-808	238	JHWBITH3.502	211	JHWBM-612	245
JHWB52EHATH	111	JHWBA-8LA	250	JHWBD-810	238	JHWBITH4.501	210	JHWBM-613	245
JHWB-52EHFB	233	JHWBB-526	238	JHWBD-812	238	JHWBITH4.502	211	JHWBM-614	245
JHWB-52EHLA	233	JHWBB-52A	233	JHWBD-814	238	JHWBITHB0301	211	JHWBM-615	245
JHWB52EHLATH	111	JHWBB-52EHA	233	JHWBD-816	238	JHWBITHB0401	211	JHWBM-616	245
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JHWB-53A	233	JHWBCF20	239	JHWBD-820	238	JHWBITHB0501	211	JHWBM-618	245
JHWB-608	237	JHWBCF22	239	JHWBFE-8	234	JHWBITHB0502	249	JHWBM-619	245
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JHWBMD-612	246	JHWBWM-1922	170	JHWC-803	385	JHWCC-8LAAW	365	JHWEWM-1719	163
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JHWBP4014TH	121	JHWC-126	382	JHWC-86	386	JHWEB-14T	494	JHWEXS-30	496
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