

LEXINGTON

CUTTER, INC.

YOUR VALUE ADDED PARTNER



2023

ISO 9001 REGISTERED
QUALITY CARBIDE & CARBIDE TIPPED
CUTTING TOOLS



PROUDLY
MADE IN THE UNITED STATES
&
DISTRIBUTED AROUND THE WORLD

LEXINGTON CUTTER RETIPPING & RESHARPENING SERVICES

RETIPPING SERVICE

Lexington Cutter will retip and resharpen carbide tipped cutting tools manufactured by Lexington or equivalent tools made by other manufacturers. The tool types listed in the table below are eligible for retipping.
 12 or More Pieces List Price Less 40%
 6-11 Pieces List Price Less 35%
 2 - 5 Pieces List Price Less 30%

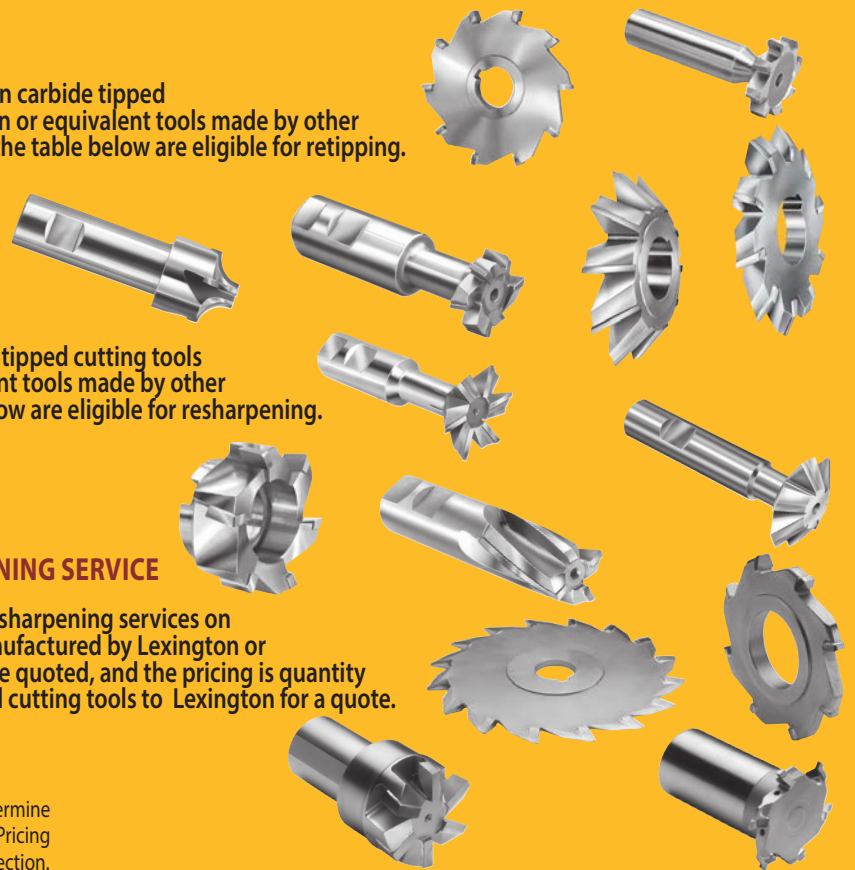
RESHARPENING SERVICE

Lexington Cutter will resharpen carbide tipped cutting tools manufactured by Lexington or equivalent tools made by other manufacturers. The tool types listed below are eligible for resharpening.
 Shank Tools List Price Less 60%
 Arbor Hole Tools List Price Less 45%
 5 Piece Minimum on Resharpening

SPECIALS RETIPPING & RESHARPENING SERVICE

Lexington Cutter offers retipping and resharpening services on special carbide tipped cutting tools manufactured by Lexington or other manufacturers. Specials need to be quoted, and the pricing is quantity based. Send your special carbide tipped cutting tools to Lexington for a quote.

All tools need to be inspected by Lexington to determine if they are eligible to be retipped or resharpened. Pricing is based on the number of tools eligible after inspection.



TYPE	ELIGIBLE CARBIDE TIPPED TOOLS
3704	High Performance Keyseat Cutters for Aluminum
3700	Straight Tooth Keyseat Cutters for Non-Ferrous & Cast Iron
3701	Staggered Tooth Keyseat Cutters for Non-Ferrous & Cast Iron
3702	Straight Tooth Keyseat Cutters for Steel
3703	Staggered Tooth Keyseat Cutters for Steel
3730	45° Chamfer Milling Cutters for Non-Ferrous & Cast Iron
3731	45° Chamfer Milling Cutters for Steel
3732	60° Chamfer Milling Cutters for Non-Ferrous & Cast Iron
3733	60° Chamfer Milling Cutters for Steel
3746	60° Double Angle Cutters for Non-Ferrous & Cast Iron (Shank)
3747	60° Double Angle Cutters for Steel (Shank)
3748	90° Double Angle Cutters for Non-Ferrous & Cast Iron (Shank)
3749	90° Double Angle Cutters for Steel (Shank)
3718	Radius Cutters for Non-Ferrous & Cast Iron
3719	Radius Cutters for Steel
3720	T-Slot Cutters for Non-Ferrous & Cast Iron
3721	T-Slot Cutters for Steel
3734	45° Dovetail Cutters for Non-Ferrous & Cast Iron
3735	45° Dovetail Cutters for Steel
3736	60° Dovetail Cutters for Non-Ferrous & Cast Iron
3737	60° Dovetail Cutters for Steel
3550	Slitting Saws Coarse Tooth for Non-Ferrous
3552	Slitting Saws Coarse Tooth for Cast Iron
3554	Slitting Saws Coarse Tooth for Steel
3558	Slitting Saws Coarse Tooth for Stainless
3551	Slitting Saws Standard Tooth for Non-Ferrous
3553	Slitting Saws Standard Tooth for Cast Iron
3556	Slitting Saws Standard Tooth for Steel
3559	Slitting Saws Standard Tooth for Stainless
3540	Side Milling Cutter for Non-Ferrous
3541	Side Milling Cutter for Cast Iron
3542	Side Milling Cutter for Steel
3543	Side Milling Cutter for Stainless
3547	Side Milling Cutter Staggered Tooth General Purpose

TYPE	ELIGIBLE CARBIDE TIPPED TOOLS
3714	45° Right Single Angle Cutter (Arbor Hole Type)
3716	45° Left Single Angle Cutter (Arbor Hole Type)
3724	60° Right Single Angle Cutter (Arbor Hole Type)
3726	60° Left Single Angle Cutter (Arbor Hole Type)
3750	45° Double Angle Cutter (Arbor Hole Type)
3752	60° Double Angle Cutter (Arbor Hole Type)
3754	90° Double Angle Cutter (Arbor Hole Type)
3530	Shell Mill for Non-Ferrous
3531	Shell Mill for Cast Iron
3532	Shell Mill for Steel
3536	Face Mill for Non-Ferrous
3537	Face Mill for Cast Iron
3538	Face Mill for Steel
3740	Corner Rounding End Mill for Non-Ferrous
3741	Corner Rounding End Mill for Steel
3323	Bridgeport/Reduced Shank End Mill for Non-Ferrous & Cast Iron
3353	Bridgeport/Reduced Shank End Mill for Steel
3322	CNC Finishing End Mills 15° Right Spiral Flutes for NF & Cast Iron
3355	CNC Finishing End Mills 15° Right Spiral Flutes for Steel
3337	CNC HP End Mills 25° Right Spiral Flutes for Aluminum & NF
3300	End Mills for Steel 2 Straight Flutes
3308	End Mills for Steel 6° Right Spiral Flutes
3310	End Mills for Steel 6° Left Spiral Flutes
3350	End Mills for Steel 15° Right Spiral Flutes
3302	End Mills for NF & Cast Iron 2 Straight Flutes Radial Edged
3304	End Mills for NF & Cast Iron 4/6 Straight Flutes Radial Edged
3305	End Mills for NF & Cast Iron 4 Straight Flutes Upsharp
3306	End Mills for NF & Cast Iron 6° Right Spiral Flutes Radial Edged
3307	End Mills for NF & Cast Iron 6° Right Spiral Flutes Upsharp
3320	End Mills for NF & Cast Iron 15° Right Spiral Flutes Radial Edged
3375	End Mills for NF & Cast Iron 15° Right Spiral Flutes Radial Edged
3325	End Mills for NF & Cast Iron 25° Right Spiral Flutes Radial Edged
3327	End Mills for NF & Cast Iron 25° Right Spiral Flutes Upsharp
-	-

SELECTING THE CORRECT LEXINGTON TOOL

LEXINGTON CUTTER'S carbide tipped tools are designed with the appropriate carbide grade and tool geometry for each material classification.

Follow the steps below to select the best tool types for maximum performance.

1. Determine classification of material being machined using table below.
2. Determine family of tool needed (i.e., drills, reamers, end mills, etc.).
3. Using the color coded index on the following pages, find the family of tool needed and the correct material classification column.
4. The index shows the tool types and page numbers for the recommended tools.
5. Turn to the page to find: sizes, tolerances, EDP numbers and prices.

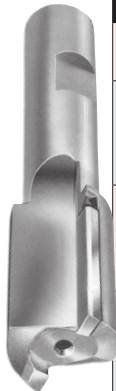
CLASSIFICATION	MATERIAL	EXAMPLES
NON-FERROUS (SOFT)	ALUMINUM ALLOY - CAST ALUMINUM ALLOY - WROUGHT MAGNESIUM ALLOY LEAD ALLOY NON-METAL AND PLASTIC ZINC ALLOY - DIE CAST	308.0, 356.0, 360.0, 380.0, 390.0, 514.0 3003, 4032, 5052, 6061, 7075 AM60A, AZ21A, AZ91B-C, K1A Alloys 7, 8, 13, 15, 1Sb, 4Sb, 6Sb, 8Sb, 9Sb Bakelite, Nylon, Polystyrene, PVC AC41A, AG40A, AMS4803, ZDC NO. 7
NON-FERROUS (HARD)	ALUMINUM BRONZE BRASS ALLOY - LEADED AND FREE CUTTING BRASS ALLOY - YELLOW, RED, NAVAL COMMERCIAL BRONZE (LEADED) NICKEL SILVER COPPER ALLOY - TOUGH	614, 952-958 340, 342, 353, 360, 370, 485 268, 270, 464-467 314 745-770, 973-978 110, 170, 172, 175, 280, 425, 610, 655
CAST IRON	DUCTILE CAST IRON - AUSTENITIC FERRITIC FERRITIC - PEARLITIC PEARLITIC - MARTENSITIC MARTENSITIC GRAY CAST IRON MALLEABLE CAST IRON - FERRITIC OR PEARLITIC	D-2, D-2B, D-2C, D-2M, D-3, D-3A, D-4, D-5 60-40-18, 65-45-12, D4018, D4512 80-55-06, D5506 100-70-03, D7003 120-90-02, DQ&T 20, 25, 30, 35, 40, 45, 50, 55 32510, 35018, 45008, M3210, M4504
LOW CARBON STEELS	LOW AND MEDIUM CARBON STEEL - WROUGHT LOW AND MEDIUM CARBON STEEL - FREE MACHINING LOW CARBON STEEL - CAST LEADED LOW CARBON LEADED MEDIUM CARBON MEDIUM CARBON STEEL - CAST	1005-1029, 1030-1050 1108-1119, 1132-1151, 1211-1215 1010, 1020 10L18, 11L17, 12L13-12L15 10L45, 10L50, 11L37, 11L44 1030, 1040, 1050
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON ALLOY STEEL LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACH. MEDIUM AND HIGH CARBON ALLOY STEEL - LEADED STAINLESS STEEL - 300 SERIES (FREE MACH.)* STAINLESS STEEL - 400 SERIES STAINLESS STEEL - 400 SERIES (FREE MACH.)	4320, 4340, 4620, 5015, 8620, 9310 4140, 4142Se, 4145Te, 4150, 86L20 41L30, 41L40, 41L50 303, 303MA, 303Pb, 303 PLUS X, 303Se 409, 410, 420, 430, 436 416, 416Se, 420F, 430F, 440F
HIGH STRENGTH STEELS	ARMOR PLATE HIGH CARBON ALLOY STEEL HIGH STRENGTH STEEL - WROUGHT MARAGING STEEL NITRIDING STEEL TOOL STEEL	HY-80, HY-100, HY-180, MIL-S-12560 50100, 51100, 52100 300M, 4330V, 98BV40, HP 9-4-20 Grades 200, 250, 300, 350, HY 230 Nitalloy 125, 135, 135 Modified, 230 Series A2, D2, H13, M50, P20, S7, W1
HIGH TEMPERATURE ALLOYS	IRON BASE ALLOY NICKEL BASE ALLOY STAINLESS STEEL - 300 SERIES STAINLESS STEEL - PH SERIES TITANIUM ALLOY	A-286, Discaloy, Incoloy 800-802 Hastelloy C, Inconel 600, 625, 718, 825 302, 304, 309, 314, 316, 300, 347, 385 15-5PH, 16-6PH, 17-4PH, AM-350 Ti-6Al-4V, Ti-10V-2Fe-3Al, 98.9, 99.5

Lexington's tool selection is based on materials most common to condition. Special heat treatments or processing may change the material's machining characteristics. This guide is a suggested starting point for tool selection.

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*When milling free machining 300 series stainless steel, use cast iron classification.

CARBIDE TIPPED TOOL PROBLEM SOLVING GUIDE



DRILLING PROBLEMS	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
1. Rough finish	Dull cutting edge Wrong feeds & speeds	Resharpener to original tool geometry. Increase speed — also try reduced feed.
2. Excessive cutting edge wear	Wrong feeds & speeds Rough cutting edge Insufficient coolant	Increase feed (should always be over .001" per tooth) — especially when machining ductile or free machining materials. Also try reduced speed. Lightly hone cutting edge with fine grit diamond hone. Increase coolant flow — review type of coolant.
3. Chipped cutting edge	Poor chip removal Recutting work hardened chips Vibration Incorrect carbide grade	Use tool with larger flute space — larger diameter or fewer flutes. Increase coolant flow. Increase rigidity of set-up, especially worn tool holders or arbors. Change to tougher carbide grade.
4. Chatter marks	Insufficient machine horsepower Vibration	Use tool with fewer flutes as correct speeds & feeds must be maintained. Consider climb milling. User larger diameter cutter. Resharpener tool with more clearance.
5. Glazed finish	Feed to light Dull cutting edge Insufficient clearance	Increase feed. Resharpener tool to original geometry. Resharpener tool with more clearance.
6. Poor tool life	Excessive cratering Milling abrasive material Milling hard material Insufficient chip room Milling surface scale Delayed resharpening Thermal cracked carbide	Increase speed or decrease feed. Change to harder grade of carbide. Decrease speed and increase feed. Increase coolant flow. Climb milling better than conventional milling. Reduce speed — rigidity very important. Use larger diameter tool. Conventional milling better than climb milling. Prompt resharpening to original geometry will increase total tool life. Maintain adequate coolant flow at all times. Climb milling is cooler than conventional milling.



MILLING PROBLEMS	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
1. Chipped cutting edge	Excessive feed Excessive lip relief Variation Thermal cracked carbide	Reduce feed. Reduce lip relief to provide smaller chisel angle. Frequently a worn drill bushing — REPLACE. Maintain adequate coolant flow at all times.
2. Short tool life	Drill dwelling Only one lip cutting	Maintain adequate feed at all times. Regrind with equal lip heights and chisel in center.
3. Drill walks or drifts	Unequal lip heights Worn drilling bushing	Regrind with equal lip heights and chisel in center. Replace drill bushing.
4. Oversized holes	Unequal lip heights Excessive lip relief Worn drill bushing	Regrind with equal lip heights and chisel in center. Reduce lip relief to provide smaller chisel angle. Replace drill bushing.
5. Rough finish	Dull cutting Inadequate coolant	Regrind with fine grit diamond wheel. Review type of coolant and maintain adequate flow.



REAMING PROBLEMS	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
1. Poor finish	Unequal chamfers Incorrect margins Excessive spindle runout Chatter Insufficient cutting action	Regrind reamer with equal chamfer height. Regrind reamer with correct margin for material being machined. Increase reamer back taper (to lose size faster). Increase speed and reduce feed rate. Use power feed unless material is hard. Use right or left spiral fluted reamer. Grind secondary lead angle immediately behind 45° chamfer. Specify reamer with positive radial rake to reduce cutting pressure — may produce slightly larger diameter holes.
2. Oversized holes or tapered holes or bell mouthed holes	Misalignment Incorrect feed and/or speed	Use bushing — .0002"/.0003" over reamer diameter. If hole location varies, use floating reamer holder. Increase reamer back taper (to lose size faster). Verify correct feeds & speeds.
3. Excessive tool wear	Insufficient stock removal Excessive reaming pressure Misalignment	Decrease previous operation drill size to allow more material for removal by reamer — leave 2% - 3% of tool diameter for cast iron and more stock for non-ferrous materials. Decrease feed rate. Reduce stock to be removed by increasing previous operation drill size — leave 2% - 3% of the tool diameter. See solution for "Misalignment" in #2 above.
4. Crooked holes	Drill walking or incorrect sharpening	Correct previous drilling operation — reamer will follow the drilled hole. Increase reamer attack angle (chamfer) to 120° - 180° included angle.
5. Tool breakage	Excessive reaming pressure Misalignment	See solution for "Excessive reaming pressure" in #3 above. See solution for "Misalignment" in #2 above.

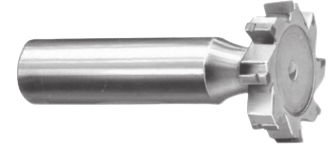
FEEDS & SPEEDS CHART FOR KEYSEATS - CARBIDE TIPPED

Feeds & speeds are a starting recommendation for catalog standards only. Factors such as machine, fixture and tooling rigidity, horse-power available, coolant application and others will affect the performance significantly. Please read machine operators instructions and use all safety shields and glasses before performing these operations. (Series 3700, 3701, 3702, & 3703 Keyseat Cutters)

IPM is based on catalog standards only using the mid SFPM and a 0.002 IPT chip load as a starting point. For all other conditions use the following formulas to calculate RPM and IPM from the ranges listed in the material group and brinell harness section as a starting point.

$$\text{RPM} = \text{SFPM} * 3.82 / \text{Cutter Diameter}$$

$$\text{IPM} = \text{IPT} * \text{RPM} * \# \text{Teeth}$$



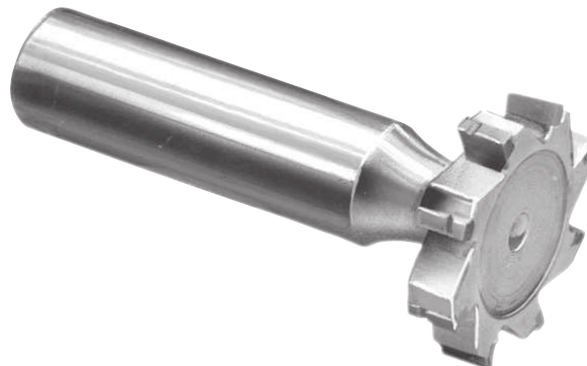
CLASSIFICATION	MATERIAL	BRINELL	SPEED IN SFPM	FEED RATE IPT	KEYSEAT CUTTER DIAMETER									
					1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	
					IPM	IPM	IPM	IPM	IPM	IPM	IPM	IPM	IPM	
NON-FERROUS (SOFT)	ALUMINUM ALLOY - WROUGHT	30-150**	1200+	.002-.010	110	88	73	63	73	65	59	53	49	
	MAGNESIUM ALLOY	50-90**	1000+	.002-.010	92	73	61	52	61	54	49	44	41	
	LEAD ALLOY	10-20**	-	-	-	-	-	-	-	-	-	-	-	
	NON-METAL AND PLASTIC	-	1500+	.002-.006	138	110	92	79	92	81	73	67	61	
	ZINC ALLOY - DIE CAST	80-100	750-1000	.002-.006	80	64	53	46	53	48	43	39	36	
NON-FERROUS (HARD)	ALUMINUM BRONZE	40-175	200-600	.002-.006	37	29	24	21	24	22	20	18	16	
	BRASS ALLOY - LEADED AND FREE CUTTING	10-100Rb	400-550	.002-.006	44	35	29	25	29	26	23	21	19	
	NICKEL SILVER	10-100Rb	200-400	.002-.006	28	22	18	16	18	16	15	13	12	
	COPPER ALLOY - TOUGH	40-200**	200-500	.002-.006	32	26	21	18	21	19	17	16	14	
CAST IRON	DUCTILE CAST IRON - AUSTENITIC	120-275	75-150	.002-.004	10	8	7	6	7	6	6	5	5	
	DUCTILE CAST IRON - FERRITIC	140-270	200-400	.002-.007	28	22	18	16	18	16	15	13	12	
	DUCTILE CAST IRON - MARTENSITIC	270-440	150-350	.002-.007	23	18	15	13	15	14	12	11	10	
	GRAY - PEARLITIC	220-320	150-300	.002-.007	21	17	14	12	14	12	11	10	9	
	GRAY - FERRITIC	110-240	220-410	.002-.006	29	23	19	17	19	17	15	14	13	
	MALLEABLE CAST IRON - MARTENSITIC	200-320	130-300	.002-.004	20	16	13	11	13	12	11	10	9	
LOW CARBON STEELS	LOW AND MEDIUM CARBON STEEL - FREE MACHINING	100-250	200-500	.001-.005	32	26	21	18	21	19	17	16	14	
	LOW AND MEDIUM CARBON STEEL - WROUGHT	100-375	200-400	.001-.005	28	22	18	16	18	16	15	13	12	
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACHINING	100-275	200-400	.001-.005	28	22	18	16	18	16	15	13	12	
	LOW AND MEDIUM CARBON ALLOY STEEL	85-375	130-330	.001-.005	21	17	14	12	14	12	11	10	9	
	STAINLESS STEEL - 400 SERIES	135-325	135-375	.002-.005	24	19	16	14	16	14	13	12	11	
	STAINLESS STEEL - 400 SERIES FREE MACHINING	135-275	250-500	.002-.005	34	28	23	20	23	20	18	17	15	
HIGH STRENGTH STEELS	HIGH STRENGTH STEEL - WROUGHT & TOOL STEEL	175-400	75-200	.001-.004	13	28	23	20	23	20	18	17	15	
HIGH TEMP. ALLOYS	HIGH TEMP ALLOYS NICKEL & IRON BASE ALLOY	140-300	50-150	.001-.004	9	7	6	5	6	5	5	4	4	
	STAINLESS STEEL - 300 SERIES	135-375	75-175	.001-.004	11	9	8	7	8	7	6	6	5	
	STAINLESS STEEL - PH SERIES	150-440	75-175	.001-.004	11	9	8	7	8	7	6	6	5	
	TITANIUM ALLOY	110-380	75-200	.002-.006	13	10	8	7	8	7	7	6	6	

CARBIDE TIPPED STRAIGHT TOOTH KEYSEAT CUTTERS FOR NON-FERROUS & CAST IRON

TYPE 3700 - STRAIGHT TOOTH

Carbide tips brazed to hardened alloy steel bodies.

Fast cutting to close tolerance with longer tool life. For milling slots in cast iron, non-ferrous metals, plastics and non-metals. Chip breakers are on all cutters 5/32" and greater width. Decimal size cutters DO NOT have chip breakers.

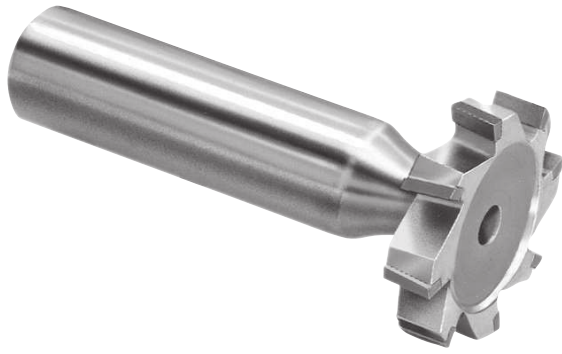


Tool diameter tolerance: +.020"/+.015".
Face width tolerance: +.0000"/-.0005".
Straight shank: 1/2" diameter, 2" long.

AMERICAN STANDARD NO.	TOOL DIAM.	NO. OF TEETH	WIDTH	NECK DIAM.	OVERALL LENGTH	EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
									1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
204	1/2	6	1/16	.130	2 1/16	37000204	\$146.25	.0575 -.0787	\$197.00	\$175.05	\$167.80	\$164.25	\$160.60	\$157.50
304	1/2	6	3/32	.160	2 3/32	37000304	146.25	.0788 -.1088	197.00	175.05	167.80	164.25	160.60	157.50
404	1/2	6	1/8	.191	2 1/8	37000404	146.25	.1089 -.1400	197.00	175.05	167.80	164.25	160.60	157.50
305	5/8	6	3/32	.191	2 3/32	37000305	151.55	.0788 -.1088	202.50	180.60	173.25	169.65	165.95	163.05
405	5/8	6	1/8	.223	2 1/8	37000405	151.55	.1089 -.1400	202.50	180.60	173.25	169.65	165.95	163.05
505	5/8	6	5/32	.252	2 5/32	37000505	151.55	.1401 -.1713	202.50	180.60	173.25	169.65	165.95	163.05
605	5/8	6	3/16	.279	2 3/16	37000605	151.55	.1714 -.2025	202.50	180.60	173.25	169.65	165.95	163.05
406	3/4	6	1/8	.217	2 1/8	37000406	158.15	.1100 -.1400	209.40	187.55	180.15	176.70	173.00	169.95
506	3/4	6	5/32	.246	2 5/32	37000506	158.15	.1401 -.1713	209.40	187.55	180.15	176.70	173.00	169.95
606	3/4	6	3/16	.279	2 3/16	37000606	158.15	.1714 -.2025	209.40	187.55	180.15	176.70	173.00	169.95
-	3/4	6	1/2	.342	2 1/2	37002407	173.25	.2026 -.2339	209.40	187.55	180.15	176.70	173.00	169.95
806	3/4	6	1/4	.342	2 1/4	37000806	158.15	.2340 -.2650	209.40	187.55	180.15	176.70	173.00	169.95
507	7/8	6	5/32	.246	2 5/32	37000507	165.65	.1401 -.1713	217.25	195.40	187.95	184.55	180.80	177.75
607	7/8	6	3/16	.279	2 3/16	37000607	165.65	.1714 -.2025	217.25	195.40	187.95	184.55	180.80	177.75
707	7/8	6	7/32	.312	2 7/32	37000707	165.65	.2026 -.2339	217.25	195.40	187.95	184.55	180.80	177.75
807	7/8	6	1/4	.342	2 1/4	37000807	165.65	.2340 -.2650	217.25	195.40	187.95	184.55	180.80	177.75
608	1	8	3/16	.279	2 3/16	37000608	186.85	.1714 -.2025	239.45	217.60	210.15	206.75	202.95	200.00
708	1	8	7/32	.312	2 7/32	37000708	186.85	.2026 -.2339	239.45	217.60	210.15	206.75	202.95	200.00
808	1	8	1/4	.342	2 1/4	37000808	186.85	.2340 -.2650	239.45	217.60	210.15	206.75	202.95	200.00
-	1	8	9/32	.401	2 9/32	37003209	204.65	.2651 -.2968	239.45	217.60	210.15	206.75	202.95	200.00
1008	1	8	5/16	.401	2 5/16	37001008	186.85	.2969 -.3281	239.45	217.60	210.15	206.75	202.95	200.00
-	1	8	11/32	.467	2 11/32	37003211	204.65	.3282 -.3593	239.45	217.60	210.15	206.75	202.95	200.00
1208	1	8	3/8	.467	2 3/8	37001208	186.85	.3594 -.3900	239.45	217.60	210.15	206.75	202.95	200.00
609	1 1/8	8	3/16	.312	2 3/16	37000609	196.20	.1714 -.2025	249.25	227.50	220.05	216.60	212.85	209.85
709	1 1/8	8	7/32	.342	2 7/32	37000709	196.20	.2026 -.2339	249.25	227.50	220.05	216.60	212.85	209.85
809	1 1/8	8	1/4	.374	2 1/4	37000809	196.20	.2340 -.2650	249.25	227.50	220.05	216.60	212.85	209.85
-	1 1/8	8	9/32	.435	2 9/32	37003609	215.00	.2651 -.2968	249.25	227.50	220.05	216.60	212.85	209.85
1009	1 1/8	8	5/16	.435	2 5/16	37001009	196.20	.2969 -.3281	249.25	227.50	220.05	216.60	212.85	209.85
610	1 1/4	8	3/16	.312	2 3/16	37000610	206.05	.1714 -.2025	259.55	237.75	230.40	226.90	223.15	220.05
710	1 1/4	8	7/32	.342	2 7/32	37000710	206.05	.2026 -.2339	259.55	237.75	230.40	226.90	223.15	220.05
810	1 1/4	8	1/4	.374	2 1/4	37000810	206.05	.2340 -.2650	259.55	237.75	230.40	226.90	223.15	220.05
-	1 1/4	8	9/32	.435	2 9/32	37004009	225.65	.2651 -.2968	259.55	237.75	230.40	226.90	223.15	220.05
1010	1 1/4	8	5/16	.435	2 5/16	37001010	206.05	.2969 -.3281	259.55	237.75	230.40	226.90	223.15	220.05
-	1 1/4	8	11/32	.467	2 11/32	37004011	225.65	.3282 -.3593	259.55	237.75	230.40	226.90	223.15	220.05
1210	1 1/4	8	3/8	.467	2 3/8	37001210	206.05	.3594 -.3900	259.55	237.75	230.40	226.90	223.15	220.05
811	1 3/8	8	1/4	.401	2 1/4	37000811	216.55	.2340 -.2650	270.50	248.65	241.30	237.75	234.00	231.10
-	1 3/8	8	9/32	.467	2 9/32	37004409	237.10	.2651 -.2968	270.50	248.65	241.30	237.75	234.00	231.10
1011	1 3/8	8	5/16	.467	2 5/16	37001011	216.55	.2969 -.3281	270.50	248.65	241.30	237.75	234.00	231.10
-	1 3/8	8	11/32	.467	2 11/32	37004411	237.10	.3282 -.3593	270.50	248.65	241.30	237.75	234.00	231.10
1211	1 3/8	8	3/8	.467	2 3/8	37001211	216.55	.3594 -.3900	270.50	248.65	241.30	237.75	234.00	231.10
812	1 1/2	8	1/4	.435	2 1/4	37000812	227.25	.2340 -.2650	281.75	260.00	252.65	249.10	245.35	242.45
-	1 1/2	8	9/32	.467	2 9/32	37004809	248.95	.2651 -.2968	281.75	260.00	252.65	249.10	245.35	242.45
1012	1 1/2	8	5/16	.467	2 5/16	37001012	227.25	.2969 -.3281	281.75	260.00	252.65	249.10	245.35	242.45
-	1 1/2	8	11/32	.467	2 11/32	37004811	248.95	.3282 -.3593	281.75	260.00	252.65	249.10	245.35	242.45
1212	1 1/2	8	3/8	.467	2 3/8	37001212	227.25	.3594 -.3900	281.75	260.00	252.65	249.10	245.35	242.45
-	1 1/2	8	13/32	.467	2 13/32	37004813	248.95	.3901 -.4219	281.75	260.00	252.65	249.10	245.35	242.45
-	1 1/2	8	7/16	.467	2 7/16	37004814	248.95	.4220 -.4531	281.75	260.00	252.65	249.10	245.35	242.45
-	1 1/2	8	15/32	.467	2 15/32	37004815	248.95	.4532 -.4843	281.75	260.00	252.65	249.10	245.35	242.45
-	1 1/2	8	1/2	.467	2 1/2	37004816	248.95	.4844 -.5150	281.75	260.00	252.65	249.10	245.35	242.45

LEXINGTON CUTTER, INC. • sales@lexingtoncutter.com • Phone 800-882-2627 • Fax 800-882-3637

CARBIDE TIPPED STAGGERED TOOTH KEYSEAT CUTTERS FOR NON-FERROUS & CAST IRON



TYPE 3701 - STAGGERED TOOTH

Carbide tips brazed to hardened alloy steel bodies.

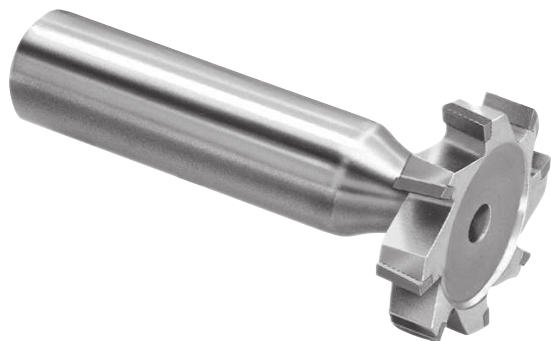
Alternate 10° right and left axial rake. For milling slots in cast iron, non-ferrous metals, plastics and non-metals.

Tool diameter tolerance: $\pm .020''/\pm .015''$.
Face width tolerance: $\pm .0000''/- .0005''$.
Straight shank: $\frac{1}{2}''$ diameter, 2" long.

AMERICAN STANDARD NO.	TOOL DIAM.	NO. OF TEETH	WIDTH	NECK DIAM.	OVERALL LENGTH	EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
									1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
204	1/2	6	1/16	.130	2 1/16	37010204	\$172.10	.0575 - .0787	\$223.95	\$202.15	\$194.75	\$191.30	\$187.55	\$184.55
304	1/2	6	3/32	.160	2 3/32	37010304	172.10	.0788 - .1088	223.95	202.15	194.75	191.30	187.55	184.55
404	1/2	6	1/8	.191	2 1/8	37010404	172.10	.1089 - .1400	223.95	202.15	194.75	191.30	187.55	184.55
305	5/8	6	3/32	.191	2 3/32	37010305	178.20	.0788 - .1088	230.50	208.65	201.30	197.70	194.00	191.00
405	5/8	6	1/8	.223	2 1/8	37010405	178.20	.1089 - .1400	230.50	208.65	201.30	197.70	194.00	191.00
505	5/8	6	5/32	.252	2 5/32	37010505	178.20	.1401 - .1713	230.50	208.65	201.30	197.70	194.00	191.00
605	5/8	6	3/16	.279	2 3/16	37010605	178.20	.1714 - .2025	230.50	208.65	201.30	197.70	194.00	191.00
406	3/4	6	1/8	.217	2 1/8	37010406	186.20	.1100 - .1400	238.85	217.00	209.55	206.05	202.45	199.45
506	3/4	6	5/32	.246	2 5/32	37010506	186.20	.1401 - .1713	238.85	217.00	209.55	206.05	202.45	199.45
606	3/4	6	3/16	.279	2 3/16	37010606	186.20	.1714 - .2025	238.85	217.00	209.55	206.05	202.45	199.45
-	3/4	6	7/32	.342	2 7/32	37012407	203.95	.2026 - .2339	238.85	217.00	209.55	206.05	202.45	199.45
806	3/4	6	1/4	.342	2 1/4	37010806	186.20	.2340 - .2650	238.85	217.00	209.55	206.05	202.45	199.45
507	7/8	6	5/32	.246	2 5/32	37010507	194.75	.1401 - .1713	247.75	225.80	218.55	215.00	211.25	208.35
607	7/8	6	3/16	.279	2 3/16	37010607	194.75	.1714 - .2025	247.75	225.80	218.55	215.00	211.25	208.35
707	7/8	6	7/32	.312	2 7/32	37010707	194.75	.2026 - .2339	247.75	225.80	218.55	215.00	211.25	208.35
807	7/8	6	1/4	.342	2 1/4	37010807	194.75	.2340 - .2650	247.75	225.80	218.55	215.00	211.25	208.35
608	1	8	3/16	.279	2 3/16	37010608	219.75	.1714 - .2025	273.95	252.05	244.75	241.15	237.45	234.55
708	1	8	7/32	.312	2 7/32	37010708	219.75	.2026 - .2339	273.95	252.05	244.75	241.15	237.45	234.55
808	1	8	1/4	.342	2 1/4	37010808	219.75	.2340 - .2650	273.95	252.05	244.75	241.15	237.45	234.55
-	1	8	9/32	.401	2 9/32	37013209	240.75	.2651 - .2968	273.95	252.05	244.75	241.15	237.45	234.55
1008	1	8	5/16	.401	2 5/16	37011008	219.75	.2969 - .3281	273.95	252.05	244.75	241.15	237.45	234.55
-	1	8	11/32	.467	2 11/32	37013211	240.75	.3282 - .3593	273.95	252.05	244.75	241.15	237.45	234.55
1208	1	8	3/8	.467	2 3/8	37011208	219.75	.3594 - .3900	273.95	252.05	244.75	241.15	237.45	234.55
609	1 1/8	8	3/16	.312	2 3/16	37010609	230.70	.1714 - .2025	285.35	263.45	256.15	252.65	248.95	245.90
709	1 1/8	8	7/32	.342	2 7/32	37010709	230.70	.2026 - .2339	285.35	263.45	256.15	252.65	248.95	245.90
809	1 1/8	8	1/4	.374	2 1/4	37010809	230.70	.2340 - .2650	285.35	263.45	256.15	252.65	248.95	245.90
-	1 1/8	8	9/32	.435	2 9/32	37013609	252.65	.2651 - .2968	285.35	263.45	256.15	252.65	248.95	245.90
1009	1 1/8	8	5/16	.435	2 5/16	37011009	230.70	.2969 - .3281	285.35	263.45	256.15	252.65	248.95	245.90
610	1 1/4	8	3/16	.312	2 3/16	37010610	242.35	.1714 - .2025	297.50	275.65	268.35	264.75	261.00	258.00
710	1 1/4	8	7/32	.342	2 7/32	37010710	242.35	.2026 - .2339	297.50	275.65	268.35	264.75	261.00	258.00
810	1 1/4	8	1/4	.374	2 1/4	37010810	242.35	.2340 - .2650	297.50	275.65	268.35	264.75	261.00	258.00
-	1 1/4	8	9/32	.435	2 9/32	37014009	265.35	.2651 - .2968	297.50	275.65	268.35	264.75	261.00	258.00
1010	1 1/4	8	5/16	.435	2 5/16	37011010	242.35	.2969 - .3281	297.50	275.65	268.35	264.75	261.00	258.00
-	1 1/4	8	11/32	.467	2 11/32	37014011	265.35	.3282 - .3593	297.50	275.65	268.35	264.75	261.00	258.00
1210	1 1/4	8	3/8	.467	2 3/8	37011210	242.35	.3594 - .3900	297.50	275.65	268.35	264.75	261.00	258.00
811	1 3/8	8	1/4	.401	2 1/4	37010811	254.55	.2340 - .2650	310.35	288.60	281.25	277.65	273.95	270.90
-	1 3/8	8	9/32	.467	2 9/32	37014409	278.80	.2651 - .2968	310.35	288.60	281.25	277.65	273.95	270.90
1011	1 3/8	8	5/16	.467	2 5/16	37011011	254.55	.2969 - .3281	310.35	288.60	281.25	277.65	273.95	270.90
-	1 3/8	8	11/32	.467	2 11/32	37014411	278.80	.3282 - .3593	310.35	288.60	281.25	277.65	273.95	270.90
1211	1 3/8	8	3/8	.467	2 3/8	37011211	254.55	.3594 - .3900	310.35	288.60	281.25	277.65	273.95	270.90
812	1 1/2	8	1/4	.435	2 1/4	37010812	267.35	.2340 - .2650	323.70	301.85	294.50	291.05	287.30	284.30
-	1 1/2	8	9/32	.467	2 9/32	37014809	292.80	.2651 - .2968	323.70	301.85	294.50	291.05	287.30	284.30
1012	1 1/2	8	5/16	.467	2 5/16	37011012	267.35	.2969 - .3281	323.70	301.85	294.50	291.05	287.30	284.30
-	1 1/2	8	11/32	.467	2 11/32	37014811	292.80	.3282 - .3593	323.70	301.85	294.50	291.05	287.30	284.30
1212	1 1/2	8	3/8	.467	2 3/8	37011212	267.35	.3594 - .3900	323.70	301.85	294.50	291.05	287.30	284.30
-	1 1/2	8	13/32	.467	2 13/32	37014813	292.80	.3901 - .4219	323.70	301.85	294.50	291.05	287.30	284.30
-	1 1/2	8	7/16	.467	2 7/16	37014814	292.80	.4220 - .4531	323.70	301.85	294.50	291.05	287.30	284.30
-	1 1/2	8	15/32	.467	2 15/32	37014815	292.80	.4532 - .4843	323.70	301.85	294.50	291.05	287.30	284.30
-	1 1/2	8	1/2	.467	2 1/2	37014816	292.80	.4844 - .5150	323.70	301.85	294.50	291.05	287.30	284.30

*Quantities of 15 or more: price of fractional size in same size range.

CARBIDE TIPPED STAGGERED TOOTH KEYSEAT CUTTERS FOR STEEL



TYPE 3703 - STAGGERED TOOTH

Carbide tips brazed to hardened alloy steel bodies.

Alternate 10° right and left axial rake. For milling slots in steel and steel alloys.

Tool diameter tolerance: +.020"/+.015".
Face width tolerance: +.0000"/-.0005".
Straight shank: 1/2" diameter, 2" long.

AMERICAN STANDARD NO.	TOOL DIAM.	NO. OF TEETH	WIDTH	NECK DIAM.	OVERALL LENGTH	EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
									1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
204	1/2	6	1/16	.130	2 1/16	37030204	\$198.85	.0575 - .0787	\$254.15	\$231.20	\$223.50	\$219.75	\$215.85	\$212.80
304	1/2	6	3/32	.160	2 3/32	37030304	198.85	.0788 - .1088	254.15	231.20	223.50	219.75	215.85	212.80
404	1/2	6	1/8	.191	2 1/8	37030404	198.85	.1089 - .1400	254.15	231.20	223.50	219.75	215.85	212.80
305	5/8	6	3/32	.191	2 3/32	37030305	205.80	.0788 - .1088	261.55	238.60	230.95	227.20	223.35	220.15
405	5/8	6	1/8	.223	2 1/8	37030405	205.80	.1089 - .1400	261.55	238.60	230.95	227.20	223.35	220.15
505	5/8	6	5/32	.252	2 5/32	37030505	205.80	.1401 - .1713	261.55	238.60	230.95	227.20	223.35	220.15
605	5/8	6	3/16	.279	2 3/16	37030605	205.80	.1714 - .2025	261.55	238.60	230.95	227.20	223.35	220.15
406	3/4	6	1/8	.217	2 1/8	37030406	215.10	.1100 - .1400	271.25	248.35	240.70	236.95	232.95	229.80
506	3/4	6	5/32	.246	2 5/32	37030506	215.10	.1401 - .1713	271.25	248.35	240.70	236.95	232.95	229.80
606	3/4	6	3/16	.279	2 3/16	37030606	215.10	.1714 - .2025	271.25	248.35	240.70	236.95	232.95	229.80
-	3/4	6	7/32	.342	2 7/32	37032407	235.55	.2026 - .2339	271.25	248.35	240.70	236.95	232.95	229.80
806	3/4	6	1/4	.342	2 1/4	37030806	215.10	.2340 - .2650	271.25	248.35	240.70	236.95	232.95	229.80
507	7/8	6	5/32	.246	2 5/32	37030507	225.05	.1401 - .1713	281.55	258.60	250.90	247.05	243.20	240.20
607	7/8	6	3/16	.279	2 3/16	37030607	225.05	.1714 - .2025	281.55	258.60	250.90	247.05	243.20	240.20
707	7/8	6	7/32	.312	2 7/32	37030707	225.05	.2026 - .2339	281.55	258.60	250.90	247.05	243.20	240.20
807	7/8	6	1/4	.342	2 1/4	37030807	225.05	.2340 - .2650	281.55	258.60	250.90	247.05	243.20	240.20
608	1	8	3/16	.279	2 3/16	37030608	253.80	.1714 - .2025	311.75	288.90	281.15	277.40	273.50	270.40
708	1	8	7/32	.312	2 7/32	37030708	253.80	.2026 - .2339	311.75	288.90	281.15	277.40	273.50	270.40
808	1	8	1/4	.342	2 1/4	37030808	253.80	.2340 - .2650	311.75	288.90	281.15	277.40	273.50	270.40
-	1	8	9/32	.401	2 9/32	37033209	278.10	.2651 - .2968	311.75	288.90	281.15	277.40	273.50	270.40
1008	1	8	5/16	.401	2 5/16	37031008	253.80	.2969 - .3281	311.75	288.90	281.15	277.40	273.50	270.40
-	1	8	11/32	.467	2 11/32	37033211	278.10	.3282 - .3593	311.75	288.90	281.15	277.40	273.50	270.40
1208	1	8	3/8	.467	2 3/8	37031208	253.80	.3594 - .3900	311.75	288.90	281.15	277.40	273.50	270.40
609	1 1/8	8	3/16	.312	2 3/16	37030609	266.45	.1714 - .2025	325.00	302.00	294.35	290.65	286.80	283.55
709	1 1/8	8	7/32	.342	2 7/32	37030709	266.45	.2026 - .2339	325.00	302.00	294.35	290.65	286.80	283.55
809	1 1/8	8	1/4	.374	2 1/4	37030809	266.45	.2340 - .2650	325.00	302.00	294.35	290.65	286.80	283.55
-	1 1/8	8	9/32	.435	2 9/32	37033609	291.75	.2651 - .2968	325.00	302.00	294.35	290.65	286.80	283.55
1009	1 1/8	8	5/16	.435	2 5/16	37031009	266.45	.2969 - .3281	325.00	302.00	294.35	290.65	286.80	283.55
610	1 1/4	8	3/16	.312	2 3/16	37030610	279.85	.1714 - .2025	339.00	316.05	308.45	304.70	300.85	297.65
710	1 1/4	8	7/32	.342	2 7/32	37030710	279.85	.2026 - .2339	339.00	316.05	308.45	304.70	300.85	297.65
810	1 1/4	8	1/4	.374	2 1/4	37030810	279.85	.2340 - .2650	339.00	316.05	308.45	304.70	300.85	297.65
-	1 1/4	8	9/32	.435	2 9/32	37034009	306.60	.2651 - .2968	339.00	316.05	308.45	304.70	300.85	297.65
1010	1 1/4	8	5/16	.435	2 5/16	37031010	279.85	.2969 - .3281	339.00	316.05	308.45	304.70	300.85	297.65
-	1 1/4	8	11/32	.467	2 11/32	37034011	306.60	.3282 - .3593	339.00	316.05	308.45	304.70	300.85	297.65
1210	1 1/4	8	3/8	.467	2 3/8	37031210	279.85	.3594 - .3900	339.00	316.05	308.45	304.70	300.85	297.65
811	1 3/8	8	1/4	.401	2 1/4	37030811	294.10	.2340 - .2650	353.90	331.05	323.15	319.55	315.65	312.50
-	1 3/8	8	9/32	.467	2 9/32	37034409	322.00	.2651 - .2968	353.90	331.05	323.15	319.55	315.65	312.50
1011	1 3/8	8	5/16	.467	2 5/16	37031011	294.10	.2969 - .3281	353.90	331.05	323.15	319.55	315.65	312.50
-	1 3/8	8	11/32	.467	2 11/32	37034411	322.00	.3282 - .3593	353.90	331.05	323.15	319.55	315.65	312.50
1211	1 3/8	8	3/8	.467	2 3/8	37031211	294.10	.3594 - .3900	353.90	331.05	323.15	319.55	315.65	312.50
812	1 1/2	8	1/4	.435	2 1/4	37030812	308.75	.2340 - .2650	369.30	346.40	338.65	334.95	331.05	328.00
-	1 1/2	8	9/32	.467	2 9/32	37034809	338.20	.2651 - .2968	369.30	346.40	338.65	334.95	331.05	328.00
1012	1 1/2	8	5/16	.467	2 5/16	37031012	308.75	.2969 - .3281	369.30	346.40	338.65	334.95	331.05	328.00
-	1 1/2	8	11/32	.467	2 11/32	37034811	338.20	.3282 - .3593	369.30	346.40	338.65	334.95	331.05	328.00
1212	1 1/2	8	3/8	.467	2 3/8	37031212	308.75	.3594 - .3900	369.30	346.40	338.65	334.95	331.05	328.00
-	1 1/2	8	13/32	.467	2 13/32	37034813	338.20	.3901 - .4219	369.30	346.40	338.65	334.95	331.05	328.00
-	1 1/2	8	7/16	.467	2 7/16	37034814	338.20	.4220 - .4531	369.30	346.40	338.65	334.95	331.05	328.00
-	1 1/2	8	15/32	.467	2 15/32	37034815	338.20	.4532 - .4843	369.30	346.40	338.65	334.95	331.05	328.00
-	1 1/2	8	1/2	.467	2 1/2	37034816	338.20	.4844 - .5150	369.30	346.40	338.65	334.95	331.05	328.00

CARBIDE TIPPED CHAMFER MILLING CUTTERS

SINGLE ANGLE CUTTERS

TYPE 3730 - 45° - FOR NON-FERROUS & CAST IRON

TYPE 3731 - 45° - FOR STEEL

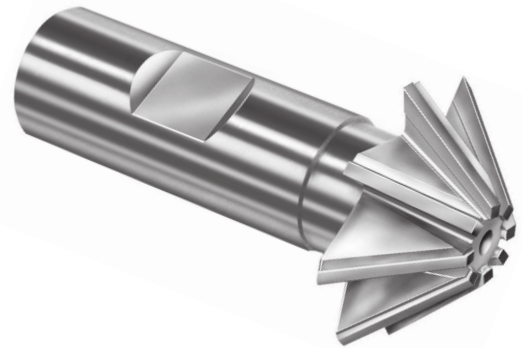
TYPE 3732 - 60° - FOR NON-FERROUS & CAST IRON

TYPE 3733 - 60° - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies. Right hand cut. Straight shank with Weldon flats.

Angle tolerance: +/- 1/4°.

Tool diameter tolerance: +.015"/-.000".



TOOL DIAMETER	SHANK DIAMETER	NO. OF TEETH	OVERALL LENGTH	45° ANGLE				60° ANGLE					
				CUTTER WIDTH	TYPE 3730 EDP NO.	PRICE EACH	TYPE 3731 EDP NO.	PRICE EACH	CUTTER WIDTH	TYPE 3732 EDP NO.	PRICE EACH	TYPE 3733 EDP NO.	PRICE EACH
1/2	3/8	4	2 1/8	1/8	373016	\$246.10	373116	\$270.65	7/32	373216	\$246.10	373316	\$270.65
3/4	3/8	6	2 1/8	3/16	373024	265.30	373124	291.75	5/16	373224	265.30	373324	291.75
1	1/2	6	2 1/2	5/16	373032	311.30	373132	342.30	7/16	373232	311.30	373332	342.30
1 1/2	3/4	8	2 3/4	1/2	373048	394.45	373148	434.15	3/8	373248	394.45	373348	434.15

DOUBLE ANGLE CUTTERS

TYPE 3746 - 60° - FOR NON-FERROUS & CAST IRON

TYPE 3747 - 60° - FOR STEEL

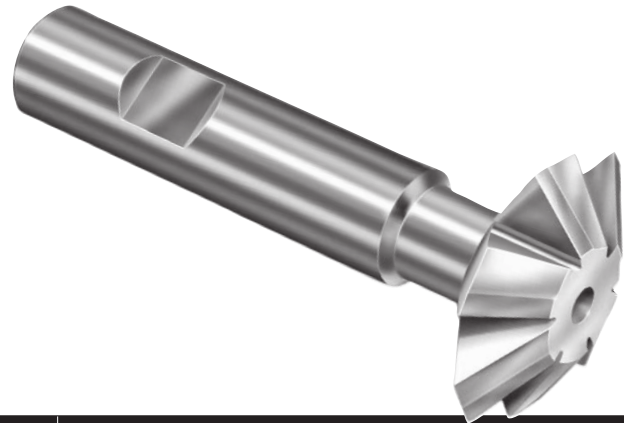
TYPE 3748 - 90° - FOR NON-FERROUS & CAST IRON

TYPE 3749 - 90° - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies. Right hand cut. Straight shank with Weldon flats.

Angle tolerance: +/- 1/4°.

Tool diameter tolerance: +.015"/-.000"; Corner radius: .010" - .020".



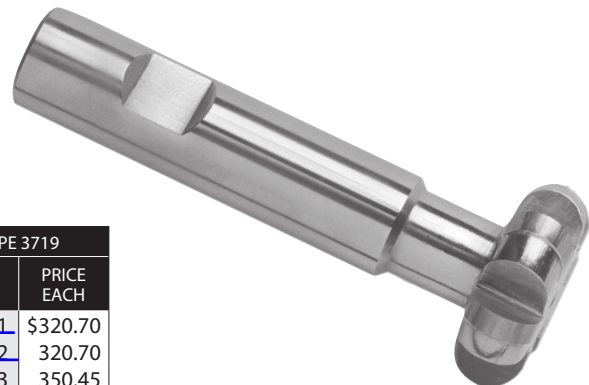
TOOL DIAMETER	SHANK DIAMETER	NO. OF TEETH	60° DOUBLE ANGLE				90° DOUBLE ANGLE							
			OVERALL LENGTH	CUTTER WIDTH	TYPE 3746 EDP NO.	PRICE EACH	TYPE 3747 EDP NO.	PRICE EACH	OVERALL LENGTH	CUTTER WIDTH	TYPE 3748 EDP NO.	PRICE EACH	TYPE 3749 EDP NO.	PRICE EACH
3/4	3/8	6	2 3/8	3/16	374624	\$233.65	374724	\$257.00	2 3/8	1/4	374824	\$233.65	374924	\$257.00
1	1/2	6	2 27/32	5/16	374632	275.95	374732	303.60	2 29/32	3/8	374832	275.95	374932	303.60
1 3/8	5/8	6	3 7/32	7/16	374644	319.65	374744	351.65	3 9/32	1/2	374844	319.65	374944	351.65
1 1/2	5/8	6	3 3/8	1/2	374648	335.75	374748	369.20	3 7/16	9/16	374848	335.75	374948	369.20
1 7/8	3/4	6	3 25/32	5/8	374660	509.70	374760	560.75	3 25/32	5/8	374860	509.70	374960	560.75
2 1/4	7/8	6	4 5/32	3/4	374672	690.00	374772	759.00	4 5/32	3/4	374872	690.00	374972	759.00

CARBIDE TIPPED RADIUS CUTTERS

TYPE 3718 - FOR NON-FERROUS & CAST IRON

TYPE 3719 - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies. Right hand cut. Convex radius. Straight shank with Weldon flats.

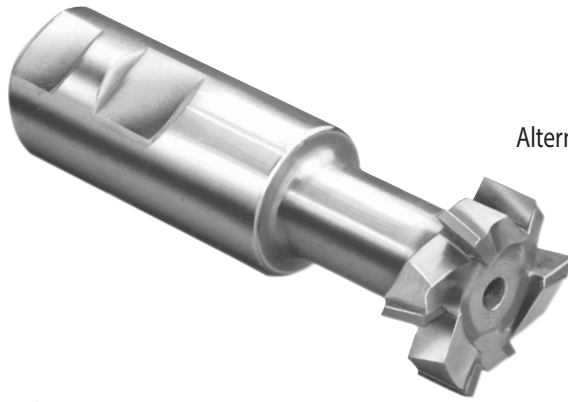


CUTTER RADIUS	TOOL DIAM.	SHANK DIAM.	NO. OF TEETH	CUTTER WIDTH	OVERALL LENGTH	TYPE 3718		TYPE 3719	
						EDP NO.	PRICE EACH	EDP NO.	PRICE EACH
1/32	3/4	1/2	6	1/16	3	371801	\$291.50	371901	\$320.70
1/16	3/4	1/2	6	1/8	3	371802	291.50	371902	320.70
3/32	7/8	1/2	6	3/16	3	371803	318.70	371903	350.45
1/8	1 1/4	3/4	6	1/4	3 1/2	371804	346.75	371904	381.55
5/32	1 5/16	3/4	6	5/16	3 1/2	371805	399.10	371905	438.95
3/16	1 3/8	3/4	6	3/8	3 1/2	371806	422.35	371906	464.60
1/4	1 1/2	3/4	6	1/2	4	371808	437.15	371908	481.00

Tool diameter tolerance: +.005"/-.000".

Tool radius tolerance thru 1/8" radius: +.001"/-.001";
over 1/8" radius: +.002"/-.002".

CARBIDE TIPPED T-SLOT CUTTERS



TYPE 3720 - FOR NON-FERROUS & CAST IRON

Carbide tips brazed to hardened alloy steel bodies.
Alternate 10° right and left axial rake. Straight shank with drive flats.
Used to machine cast iron and non-ferrous materials.

TYPE 3721 - FOR STEEL

Same as Type 3720 above, except carbide grade and geometry appropriate for cutting steel.

Tool diameter tolerance: +.000"/-.010".

BOLT DIAMETER	TOOL DIAMETER	SHANK DIAMETER	CUTTER WIDTH	NECK DIAMETER	UNDERCUT LENGTH	NO. OF TEETH	OVERALL LENGTH	TYPE 3720 EDP NO.	PRICE EACH	TYPE 3721 EDP NO.	PRICE EACH
1/4	9/16	1/2	15/64	17/64	35/64	6	2 19/32	372008	\$201.20	372108	\$217.30
5/16	21/32	1/2	17/64	21/64	39/64	6	2 11/16	372010	198.75	372110	214.60
3/8	25/32	3/4	21/64	13/32	55/64	6	3 1/4	372012	250.10	372112	270.20
1/2	31/32	3/4	25/64	17/32	63/64	6	3 7/16	372016	271.95	372116	293.65
5/8	1 1/4	1	31/64	21/32	1 9/64	6	3 15/16	372020	360.95	372120	389.90
3/4	1 15/32	1	5/8	25/32	1 1/2	6	4 7/16	372024	403.35	372124	435.55
1	1 27/32	1 1/4	53/64	1 1/32	1 43/64	8	4 13/16	372032	575.80	372132	621.95
1 1/4	2 7/32	1 1/4	1 3/32	1 7/32	1 31/32	8	5 3/8	372040	726.65	372140	784.80
1 1/2	2 27/32	1 1/4	1 11/32	1 17/32	2 1/8	8	5 29/32	372048	841.45	372148	908.85

CARBIDE TIPPED DOVETAIL CUTTERS

TYPE 3734 - 45° SINGLE ANGLE FOR NON-FERROUS & CAST IRON TYPE 3735 - 45° SINGLE ANGLE FOR STEEL

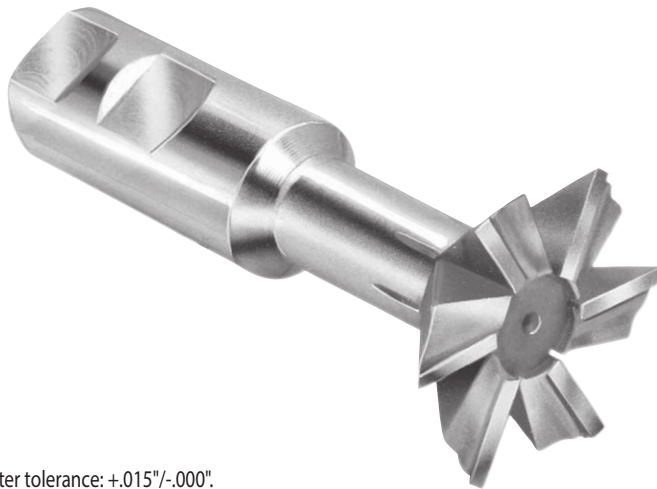
Carbide tips brazed to hardened alloy steel bodies.

45° single angle with right hand cut.
Straight shank with drive flats.

TYPE 3736 - 60° SINGLE ANGLE FOR NON-FERROUS & CAST IRON TYPE 3737 - 60° SINGLE ANGLE FOR STEEL

Carbide tips brazed to hardened alloy steel bodies.

60° single angle with right hand cut.
Straight shank with drive flats.



Tool diameter tolerance: +.015"/-.000".
Corner radius: .015" - .020".

TOOL DIAMETER	SHANK DIAMETER	NECK DIAMETER	NO. OF TEETH	OVERALL LENGTH	45° SINGLE ANGLE				60° SINGLE ANGLE					
					CUTTER WIDTH	TYPE 3734 EDP NO.	PRICE EACH	TYPE 3735 EDP NO.	PRICE EACH	CUTTER WIDTH	TYPE 3736 EDP NO.	PRICE EACH	TYPE 3737 EDP NO.	PRICE EACH
1/2	3/8	3/16	3	2 1/8	5/32	373416	\$201.45	373516	\$204.50	7/32	373616	\$201.45	373716	\$204.50
3/4	3/8	1/4	3	2 1/4	1/4	373424	217.40	373524	220.35	1/4	373624	217.40	373724	220.35
1	1/2	3/8	4	2 1/2	5/16	373432	232.50	373532	235.85	3/8	373632	232.50	373732	235.85
1 1/4	5/8	1/2	4	2 3/4	3/8	373440	264.30	373540	268.10	1/2	373640	264.30	373740	268.10
1 1/2	3/4	1/2	4	3 1/4	1/2	373448	308.75	373548	313.25	5/8	373648	308.75	373748	313.25
2	1	3/4	6	4 1/4	5/8	373464	496.15	373564	503.20	3/4	373664	496.15	373764	503.20
2 1/2	1 1/4	1	6	4 3/8	3/4	373480	671.00	373580	680.40	7/8	373680	671.00	373780	680.40
3	1 1/4	1	6	4 1/2	1	373496	791.20	373596	802.60	1 1/8	373696	791.20	373796	802.60

FEEDS & SPEEDS CHART FOR MILLS & SAWS - CARBIDE TIPPED

Feeds & speeds are a starting recommendation only. Factors such as machine, fixture and tooling rigidity, horsepower available, coolant application and others will affect the performance significantly. Please read machine operators instructions and use all safety shields and glasses before performing these operations.



RPM=SFPM*3.82/Cutter Diameter
IPM=IPT*RPM*#Teeth

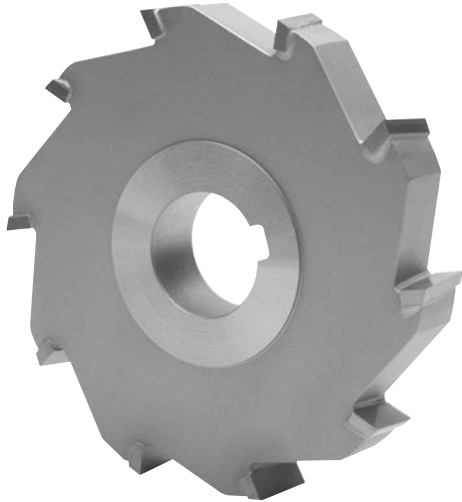
CLASSIFICATION	MATERIAL	BRINELL	SURFACE FEET PER MINUTE (SFPM)	INCHES PER TOOTH (IPT)
NON-FERROUS (SOFT)	ALUMINUM ALLOY - WROUGHT	30-150*	1000-2000	.004-.008
	MAGNESIUM ALLOY	50-90*	750-1500	.004-.008
	LEAD ALLOY	10-20*	300-1000	.004-.008
	NON-METAL AND PLASTIC	-	1500-3000	.004-.008
	ZINC ALLOY - DIE CAST	80-100	750-1500	.005-.010
NON-FERROUS (HARD)	ALUMINUM BRONZE	40-175	200-600	.003-.006
	BRASS ALLOY - LEADED AND FREE CUTTING	10-100Rb	400-800	.004-.008
	NICKEL SILVER	10-100Rb	200-400	.003-.006
	COPPER ALLOY - TOUGH	40-200*	200-500	.004-.008
CAST IRON	DUCTILE CAST IRON - AUSTENITIC	120-275	75-150	.002-.004
	DUCTILE CAST IRON - FERRITIC	140-270	250-400	.003-.006
	DUCTILE CAST IRON - MARTENSITIC	270-400	200-300	.003-.006
	GRAY - PEARLITIC	220-320	120-300	.002-.004
	GRAY - FERRITIC	110-240	250-425	.003-.006
	MALLEABLE CAST IRON - MARTENSITIC	200-320	130-225	.002-.004
	MALLEABLE CAST IRON - FERRITIC & PEARLITIC	110-240	200-400	.003-.006
LOW CARBON STEELS	LOW AND MEDIUM CARBON STEEL - FREE MACHINING	100-250	250-500	.003-.006
	LOW AND MEDIUM CARBON STEEL - WROUGHT	100-375	200-400	.002-.004
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACHINING	100-275	200-400	.002-.004
	LOW AND MEDIUM CARBON ALLOY STEEL	85-375	150-300	.002-.005
	STAINLESS STEEL - 400 SERIES	135-325	200-400	.003-.006
	STAINLESS STEEL - 400 SERIES FREE MACHINING	135-275	250-500	.003-.006
HIGH STRENGTH STEELS	HIGH STRENGTH STEEL - WROUGHT & TOOL STEEL	175-400	75-150	.002-.004
HIGH TEMP. ALLOYS	HIGH TEMP ALLOYS NICKEL & IRON BASE ALLOY	140-300	50-150	.002-.004
	STAINLESS STEEL - 300 SERIES	135-375	75-150	.002-.004
	STAINLESS STEEL - PH SERIES	150-440	75-150	.002-.004
	TITANIUM ALLOY	110-380	100-200	.002-.004

CARBIDE TIPPED SIDE MILLING CUTTERS STAGGERED TOOTH

TYPE 3547 - GENERAL PURPOSE

Carbide tips brazed to alloy steel bodies.

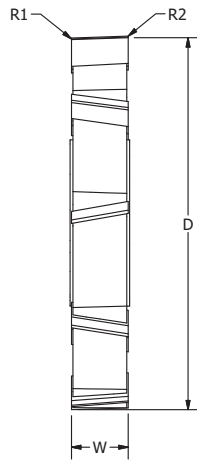
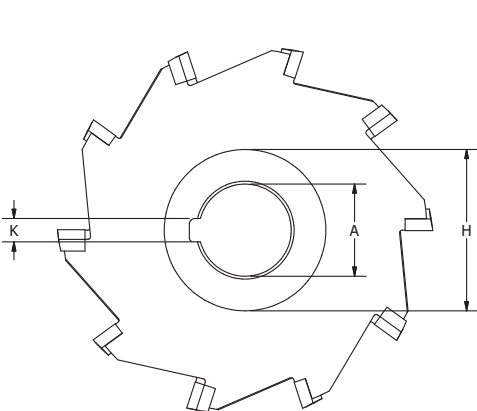
Positive radial rake and alternating right and left hand 5° axial rake make this an excellent choice for general purpose milling including aluminum, cast iron, composites, stainless steel, steel, and titanium up to 363 Brinell (39Rc). Staggered tooth design produces a free cutting tool and promotes chip evacuation. Carbide extends across the entire length of each tooth.



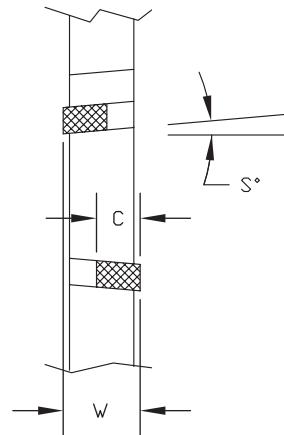
ALL TYPES:
 Tool diameter tolerance: $+\frac{1}{16}"/-0.000"$
 Face width tolerance: $+.001"/-.000"$
 Arbor hole tolerance: $+.001"/-.000"$
 Sharpened on all 3 cutting edges.

TOOL DIAM.	WIDTH		NO. OF TEETH	TYPE 3547 FOR STAINLESS STEEL		PRICE EACH
	FRAC.	DEC.		1"ARBOR EDP NO.	1 1/4"ARBOR EDP NO.	
3	3/16	.1875	8	354710	-	\$607.75
3	1/4	.2500	8	354712	-	622.25
3	5/16	.3125	8	354714	-	627.80
3	3/8	.3750	8	354716	-	630.30
3	1/2	.5000	8	354718	-	649.85
3	5/8	.6250	8	354720	-	695.75
4	3/16	.1875	10	354722	-	660.35
4	1/4	.2500	10	354724	-	668.55
4	5/16	.3125	10	354726	-	676.65
4	3/8	.3750	10	354728	-	684.80
4	1/2	.5000	10	354730	-	694.35
4	5/8	.6250	10	354732	-	707.35
4	3/4	.7500	10	354734	-	715.30
6	1/4	.2500	14	-	354750	858.40
6	5/16	.3125	14	-	354752	864.90
6	3/8	.3750	14	-	354754	866.15
6	1/2	.5000	14	-	354756	877.45
6	5/8	.6250	14	-	354758	882.45
6	3/4	.7500	14	-	354760	911.20
6	1	1.0000	14	-	354762	975.60

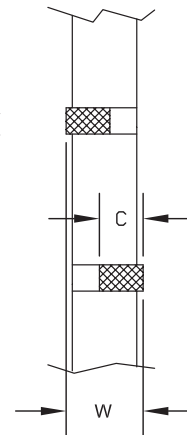
For a material specific design and/or other types of staggered tooth cutters use the form and diagrams below for a quote.



Herringbone Stagger with Full Width Carbide



Herringbone Stagger with Partial Width Carbide



Straight Stagger with Partial Width Carbide

Name _____ Phone _____
 Company _____ Fax _____
 Full Address _____

SPECIAL CARBIDE TIPPED STAGGERED TOOTH CUTTER ORDERING INFORMATION

D= _____ Cutter Diameter R1= _____ Radius/Chamfer (Left Side Top Coming) _____ Material Cutting
 W= _____ Cutter Width R2= _____ Radius/Chamfer (Right Side Top Coming) _____ Quantities
 A= _____ Arbor Hole Diameter C= _____ Carbide Length (If Partial Width Carbide) Herringbone Stagger - Full Width Carbide
 K= _____ Keyway Size S= _____ Axial Rake Angle Herringbone Stagger - Partial Width Carbide
 H= _____ Hub Diameter N= _____ # of Teeth Straight Stagger - Partial Width Carbide

CARBIDE TIPPED SLITTING SAWS - COARSE TOOTH

TYPE 3550 - FOR NON-FERROUS

Carbide tips brazed to alloy steel bodies.

For machining aluminum, magnesium, zinc, brass, bronze, plastics and non-metals.

TYPE 3552 - FOR CAST IRON

Carbide tips brazed to alloy steel bodies.

For machining most materials, especially cast iron and malleable iron.

TYPE 3554 - FOR STEEL

Carbide tips brazed to alloy steel bodies.

Steel cutting grade of carbide for machining most steels.

TYPE 3558 - FOR STAINLESS STEEL

Carbide tips brazed to alloy steel bodies.

High number of teeth for machining of stainless steel and related alloy steels. AISI type 200 thru 350 stainless steels.



ALL TYPES (page 16 & 17):
 Tool diameter tolerance: $+\frac{1}{16}"/-.000"$.
 Face width tolerance: $+.001"/-.000"$.
 Arbor hole tolerance: $+.001"/-.000"$.
 Sharpened on all 3 cutting edges.

TOOL DIAM.	WIDTH		ARBOR HOLE	TYPE 3550 FOR NON-FERROUS			TYPE 3552 FOR CAST IRON			TYPE 3554 FOR STEEL			TYPE 3558 FOR STAINLESS STEEL		
	FRAC.	DECIMAL		NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH
3	$\frac{3}{32}$	.0938	1	6	355032	\$225.35	6	355232	\$259.40	8	355432	\$257.10	8	355832	\$240.90
3	$\frac{1}{8}$	.1250	1	6	355034	232.10	6	355234	274.65	8	355434	287.75	8	355834	250.10
3	$\frac{3}{16}$	.1875	1	6	355036	241.30	6	355236	290.50	8	355436	290.50	8	355836	259.75
3	$\frac{1}{4}$	.2500	1	6	355037	164.10	6	355237	238.15	8	355437	238.15	8	355837	285.85
3	$\frac{5}{16}$	.3125	1	6	355031	172.40	6	355231	238.15	8	355431	238.15	8	355831	285.85
3	$\frac{3}{8}$	.3750	1	6	355038	175.75	6	355238	242.00	8	355438	242.00	8	355838	290.50
4	$\frac{3}{32}$	.0938	1	6	355042	276.65	8	355242	332.50	8	355442	332.50	10	355842	346.60
4	$\frac{1}{8}$	.1250	1	6	355044	284.85	8	355244	336.95	8	355444	336.95	10	355844	351.00
4	$\frac{3}{16}$	.1875	1	6	355046	289.10	8	355246	363.10	8	355446	363.10	10	355846	355.80
4	$\frac{1}{4}$	.2500	1	6	355047	210.95	8	355247	308.35	8	355447	308.35	10	355847	370.20
4	$\frac{5}{16}$	.3125	1	6	355041	216.85	8	355241	320.30	8	355441	320.30	10	355841	384.15
4	$\frac{3}{8}$	.3750	1	6	355048	222.60	8	355248	331.95	8	355448	331.95	10	355848	398.25
4	$\frac{3}{8}$	.3750	1 1/4	6	355049	222.60	8	355249	331.95	8	355449	331.95	10	355849	398.25
5	$\frac{3}{32}$	.0938	1	8	355052	299.30	10	355252	446.40	10	355452	446.40	12	355852	471.15
5	$\frac{1}{8}$	.1250	1	8	355054	299.30	10	355254	480.15	10	355454	480.15	12	355854	481.00
5	$\frac{3}{16}$	.1875	1	-	-	-	10	355256	540.55	10	355456	540.55	12	355856	500.15
6	$\frac{1}{8}$	.1250	1 1/4	8	355063	407.60	12	355263	586.00	12	355463	586.00	14	355863	562.70
6	$\frac{3}{16}$	.1875	1 1/4	8	355065	537.15	12	355265	605.30	12	355465	605.30	14	355865	577.15
6	$\frac{1}{4}$	.2500	1 1/4	8	355067	556.40	12	355267	617.95	12	355467	617.95	14	355867	586.60
8	$\frac{1}{8}$	.1250	1 1/4	10	355083	521.05	-	-	-	-	-	-	-	-	
8	$\frac{3}{16}$	.1875	1 1/4	-	-	-	16	355285	833.05	16	355485	833.05	-	-	
8	$\frac{1}{4}$	.2500	1 1/4	-	-	-	16	355287	864.85	16	355487	864.85	-	-	

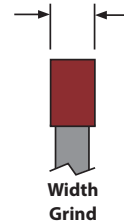
3" CARBIDE TIPPED MILLING CUTTERS GENERAL PURPOSE

TYPE 3559 - GENERAL PURPOSE



Width grinds between .0600" and .5312"

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH - FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
3	.0600-.0703	.0555	355998D	\$490.95	\$455.45	\$449.30	\$446.10	\$444.20	\$399.35
3	.0704-.0859	.0711	355900D	539.00	503.50	497.40	494.15	492.10	447.35
3	.0860-.1015	.0867	355902D	490.95	455.45	449.30	446.10	444.20	399.35
3	.1016-.1171	.1024	355904D	472.80	437.45	431.25	428.00	426.00	381.20
3	.1172-.1406	.1180	355906D	455.70	420.20	414.00	410.75	408.85	364.10
3	.1407-.1718	.1562	355908D	464.50	429.15	422.95	419.75	417.80	372.85
3	.1719-.2031	.1875	355909D	473.45	437.90	431.70	428.55	426.65	381.80
3	.2032-.2343	.2188	355910D	485.40	450.15	443.95	440.65	438.75	393.90
3	.2344-.2812	.2500	355911D	497.55	462.10	455.75	452.55	450.70	405.70
3	.2813-.3437	.3125	355912D	536.15	500.75	494.55	491.40	489.50	444.50
3	.3438-.4062	.3750	355913D	577.80	542.40	536.15	532.85	530.95	486.20
3	.4063-.4687	.4375	355914D	619.85	584.45	578.25	575.05	573.10	528.35
3	.4688-.5312	.5000	355915D	662.05	626.45	620.25	617.10	615.25	570.20



Cutter Notes (All cutters on page)

- 12 Teeth
- C-2(m) Carbide
- 5° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 363 Brinell (39RC)

Corner Radius or Chamfer on ONE Side

Radius Notes

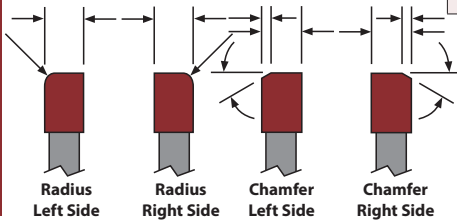
- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is 1/2 the width of the cutter
- A non-tangent radii must be quoted

Chamfer Notes

- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of 1/3 the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: +/- 1/2°
- Chamfers greater than 45° must be quoted

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED WITH RADIUS OR CHAMFER					
				1 PC	2 PC	3 PC	4 PC	5 PC	6 PC
3	.0600-.0703	.0555	355998R1	\$514.95	\$462.50	\$455.45	\$452.00	\$449.85	\$448.80
3	.0704-.0859	.0711	355900R1	563.00	510.50	503.50	499.90	497.75	496.70
3	.0860-.1015	.0867	355902R1	514.95	462.50	455.45	452.00	449.85	448.80
3	.1016-.1171	.1024	355904R1	496.85	444.35	437.45	433.85	431.60	430.45
3	.1172-.1406	.1180	355906R1	479.70	427.15	420.20	416.65	414.50	413.30
3	.1407-.1718	.1562	355908R1	488.50	436.05	429.15	425.50	423.35	422.20
3	.1719-.2031	.1875	355909R1	497.45	444.90	437.90	434.45	432.40	431.15
3	.2032-.2343	.2188	355910R1	509.40	457.15	450.15	446.40	444.35	443.10
3	.2344-.2812	.2500	355911R1	521.45	468.95	462.10	458.45	456.30	455.15
3	.2813-.3437	.3125	355912R1	560.15	507.80	500.75	497.15	495.10	493.80
3	.3438-.4062	.3750	355913R1	601.95	549.35	542.40	538.75	536.70	535.55
3	.4063-.4687	.4375	355914R1	643.85	591.45	584.45	580.85	578.80	577.55
3	.4688-.5312	.5000	355915R1	685.95	633.45	626.45	623.00	620.70	619.65

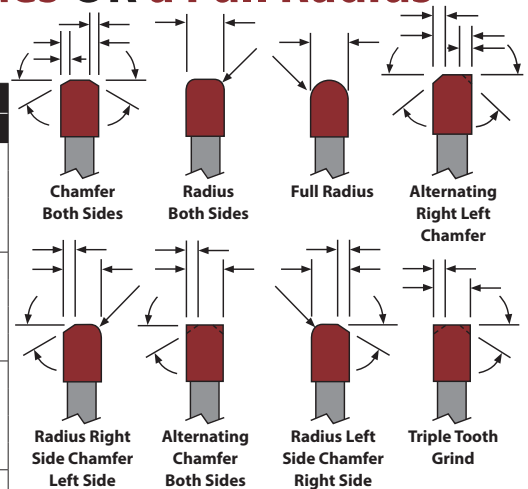
Specify side for radius or chamfer



Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED WITH RADIUS, CHAMFERS, OR COMBINATION					
				1 PC	2 PC	3 PC	4 PC	5 PC	6 PC
3	.0600-.0703	.0555	355998R2	\$527.75	\$469.55	\$461.90	\$457.75	\$455.40	\$454.15
3	.0704-.0859	.0711	355900R2	575.80	517.55	509.90	505.80	503.30	502.00
3	.0860-.1015	.0867	355902R2	527.75	469.55	461.90	457.75	455.40	454.15
3	.1016-.1171	.1024	355904R2	509.80	451.40	443.75	439.75	437.30	436.00
3	.1172-.1406	.1180	355906R2	492.55	434.30	426.50	422.50	420.05	418.80
3	.1407-.1718	.1562	355908R2	501.45	443.05	435.35	431.40	429.00	427.65
3	.1719-.2031	.1875	355909R2	510.20	452.00	444.25	440.20	437.80	436.60
3	.2032-.2343	.2188	355910R2	522.45	464.05	456.35	452.40	449.95	448.80
3	.2344-.2812	.2500	355911R2	534.25	475.90	468.35	464.25	461.90	460.60
3	.2813-.3437	.3125	355912R2	573.05	514.70	506.95	503.05	500.70	499.35
3	.3438-.4062	.3750	355913R2	614.75	556.40	548.65	544.65	542.20	541.00
3	.4063-.4687	.4375	355914R2	656.65	598.50	590.80	586.70	584.40	583.00
3	.4688-.5312	.5000	355915R2	698.75	640.65	632.80	628.85	626.40	625.10



4" CARBIDE TIPPED MILLING CUTTERS GENERAL PURPOSE

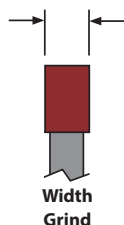
TYPE 3559 - GENERAL PURPOSE



Width grinds between .0600" and .5312"

Cutter Notes (All cutters on page)

- 14 Teeth
- C-2(m) Carbide
- 5° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 363 Brinell (39Rc)



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
4	.0600-.0703	.0545	355916D	\$562.05	\$521.45	\$514.00	\$510.20	\$507.90	\$454.25
4	.0704-.0859	.0701	355918D	628.40	587.60	580.15	576.35	574.10	520.40
4	.0860-.1015	.0858	355920D	562.05	521.45	514.00	510.20	507.90	454.25
4	.1016-.1171	.1014	355922D	646.55	605.75	598.35	594.65	592.20	538.45
4	.1172-.1406	.1170	355924D	561.55	520.70	513.15	509.35	507.10	453.45
4	.1407-.1718	.1562	355926D	573.35	532.65	525.20	521.45	519.05	465.40
4	.1719-.2031	.1875	355928D	588.15	547.45	540.00	536.25	533.85	480.20
4	.2032-.2343	.2188	355930D	603.30	562.60	555.10	551.35	548.90	495.30
4	.2344-.2812	.2500	355932D	615.25	574.40	567.00	563.15	560.75	507.20
4	.2813-.3437	.3125	355934D	650.85	610.15	602.60	598.85	596.50	543.00
4	.3438-.4062	.3750	355936D	692.70	652.00	644.55	640.70	638.25	584.60
4	.4063-.4687	.4375	355938D	734.70	694.05	686.50	682.70	680.25	626.75
4	.4688-.5312	.5000	355940D	776.85	735.90	728.55	724.75	722.45	668.75

Corner Radius or Chamfer on ONE Side

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
4	.0600-.0703	.0545	355916R1	\$588.05	\$529.05	\$520.85	\$516.45	\$514.00	\$512.65
4	.0704-.0859	.0701	355918R1	654.20	595.20	587.00	582.60	580.15	578.80
4	.0860-.1015	.0858	355920R1	588.05	529.05	520.85	516.45	514.00	512.65
4	.1016-.1171	.1014	355922R1	672.55	613.45	605.15	600.95	598.35	596.95
4	.1172-.1406	.1170	355924R1	587.45	528.35	520.05	515.80	513.15	511.85
4	.1407-.1718	.1562	355926R1	599.25	540.15	532.05	527.75	525.20	523.75
4	.1719-.2031	.1875	355928R1	614.20	555.10	546.80	542.55	540.00	538.55
4	.2032-.2343	.2188	355930R1	629.30	570.10	561.90	557.70	555.10	553.65
4	.2344-.2812	.2500	355932R1	641.10	582.00	573.75	569.45	567.00	565.60
4	.2813-.3437	.3125	355934R1	676.80	617.65	609.50	605.25	602.60	601.15
4	.3438-.4062	.3750	355936R1	718.50	659.50	651.20	646.95	644.55	643.00
4	.4063-.4687	.4375	355938R1	760.65	701.65	693.30	689.10	686.50	685.10
4	.4688-.5312	.5000	355940R1	802.75	743.75	735.45	731.15	728.55	727.25

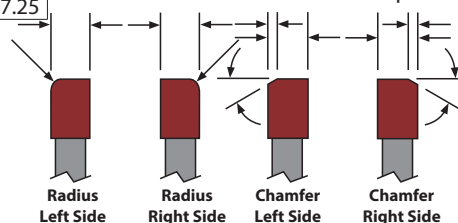
Radius Notes

- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is 1/2 the width of the cutter
- A non-tangent radii must be quoted

Chamfer Notes

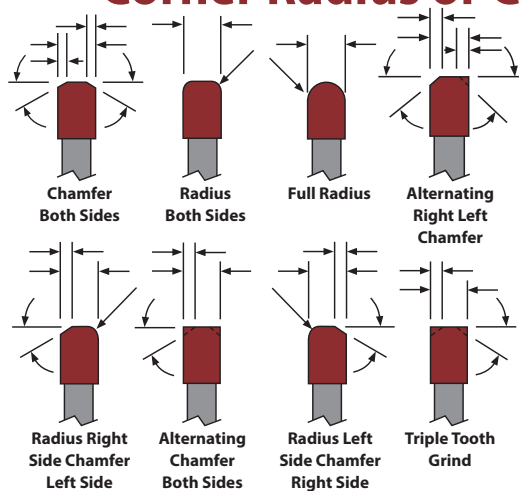
- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of 1/2 the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: +/- 1/2°
- Chamfers greater than 45° must be quoted

Specify side for radius or chamfer



Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
4	.0600-.0703	.0545	355916R2	\$601.95	\$536.80	\$527.60	\$522.90	\$520.05	\$518.55
4	.0704-.0859	.0701	355918R2	667.85	602.85	593.75	589.05	586.15	584.60
4	.0860-.1015	.0858	355920R2	601.95	536.80	527.60	522.90	520.05	518.55
4	.1016-.1171	.1014	355922R2	686.15	621.10	611.90	607.30	604.40	602.85
4	.1172-.1406	.1170	355924R2	601.00	535.95	526.80	522.15	519.30	517.70
4	.1407-.1718	.1562	355926R2	612.95	547.95	538.70	534.10	531.10	529.65
4	.1719-.2031	.1875	355928R2	627.90	562.75	553.65	548.90	546.00	544.60
4	.2032-.2343	.2188	355930R2	642.95	577.80	568.75	564.05	561.25	559.70
4	.2344-.2812	.2500	355932R2	654.75	589.65	580.55	575.80	573.05	571.45
4	.2813-.3437	.3125	355934R2	690.45	625.40	616.25	611.60	608.70	607.20
4	.3438-.4062	.3750	355936R2	732.30	667.15	658.05	653.35	650.60	649.00
4	.4063-.4687	.4375	355938R2	774.30	709.25	700.20	695.35	692.55	691.15
4	.4688-.5312	.5000	355940R2	816.40	751.40	742.15	737.45	734.60	733.00

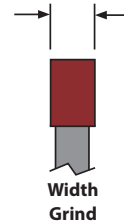
5" CARBIDE TIPPED MILLING CUTTERS GENERAL PURPOSE

TYPE 3559 - GENERAL PURPOSE



Width grinds between .0704" and .5312"

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
5	.0704-.0859	.0691	355942D	\$751.65	\$709.85	\$702.25	\$698.45	\$696.15	\$641.20
5	.0860-.1015	.0848	355944D	660.40	618.70	611.20	607.30	605.00	549.90
5	.1016-.1171	.1004	355946D	715.20	673.60	665.95	662.10	659.75	604.90
5	.1172-.1406	.1160	355948D	644.55	602.60	595.20	591.20	589.00	534.00
5	.1407-.1718	.1562	355950D	662.20	620.50	612.95	608.90	606.60	551.65
5	.1719-.2031	.1875	355952D	692.15	650.55	642.95	639.10	636.65	581.70
5	.2032-.2343	.2188	355954D	722.10	680.25	672.75	668.85	666.45	611.60
5	.2344-.2812	.2500	355956D	751.70	709.95	702.50	698.60	696.30	641.25
5	.2813-.3437	.3125	355958D	802.35	760.65	753.15	749.20	746.90	692.00
5	.3438-.4062	.3750	355960D	856.10	814.40	806.95	803.00	800.60	745.80
5	.4063-.4687	.4375	355962D	898.20	856.55	849.15	845.15	842.70	787.80
5	.4688-.5312	.5000	355964D	940.35	898.55	891.05	887.15	884.75	829.80



Cutter Notes (All cutters on page)

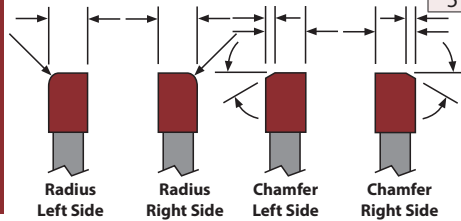
- 16 Teeth
- C-2(m) Carbide
- 5° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 363 Brinell (39RC)

Radius Notes

- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is 1/2 the width of the cutter
- A non-tangent radii must be quoted

Chamfer Notes

- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of 1/3 the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: +/- 1/2°
- Chamfers greater than 45° must be quoted



Corner Radius or Chamfer on ONE Side

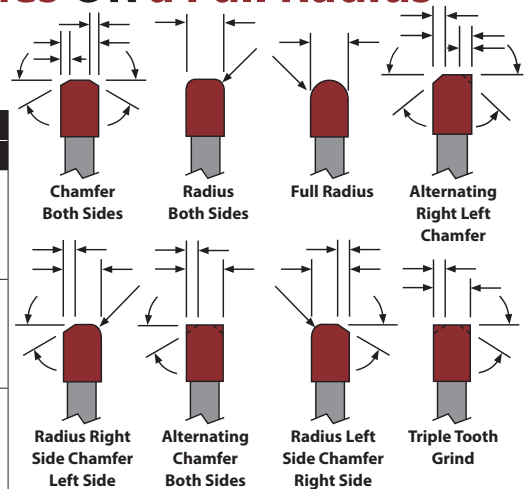
TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
5	.0704-.0859	.0691	355942R1	\$777.85	\$717.50	\$709.15	\$704.70	\$702.05	\$700.75
5	.0860-.1015	.0848	355944R1	686.80	626.40	617.95	613.65	611.00	609.50
5	.1016-.1171	.1004	355946R1	741.50	681.25	672.75	668.45	665.70	664.40
5	.1172-.1406	.1160	355948R1	670.70	610.35	602.10	597.65	595.05	593.65
5	.1407-.1718	.1562	355950R1	688.45	628.05	619.70	615.40	612.65	611.35
5	.1719-.2031	.1875	355952R1	718.35	658.10	649.70	645.30	642.70	641.25
5	.2032-.2343	.2188	355954R1	748.25	687.95	679.60	675.30	672.55	671.15
5	.2344-.2812	.2500	355956R1	778.00	717.85	709.25	704.95	702.25	700.80
5	.2813-.3437	.3125	355958R1	828.65	768.25	759.90	755.55	753.00	751.55
5	.3438-.4062	.3750	355960R1	882.40	822.05	813.65	809.25	806.80	805.35
5	.4063-.4687	.4375	355962R1	924.50	864.25	855.70	851.45	848.75	847.35
5	.4688-.5312	.5000	355964R1	966.50	906.30	897.90	893.60	890.75	889.45

Specify side for radius or chamfer

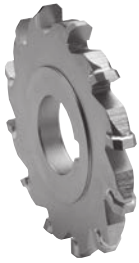
Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
5	.0704-.0859	.0691	355942R2	\$805.20	\$732.85	\$722.65	\$717.45	\$714.30	\$712.70
5	.0860-.1015	.0848	355944R2	714.05	641.65	631.50	626.30	623.15	621.55
5	.1016-.1171	.1004	355946R2	768.80	696.45	686.30	681.10	678.05	676.30
5	.1172-.1406	.1160	355948R2	698.05	625.70	615.60	610.30	607.20	605.55
5	.1407-.1718	.1562	355950R2	715.75	643.40	633.30	628.05	624.95	623.15
5	.1719-.2031	.1875	355952R2	745.80	673.35	663.20	658.05	654.90	653.20
5	.2032-.2343	.2188	355954R2	775.45	703.35	693.15	687.95	684.80	683.10
5	.2344-.2812	.2500	355956R2	805.35	732.95	722.75	717.65	714.60	712.85
5	.2813-.3437	.3125	355958R2	855.85	783.60	773.55	768.20	765.05	763.45
5	.3438-.4062	.3750	355960R2	909.75	837.30	827.35	822.00	818.85	817.30
5	.4063-.4687	.4375	355962R2	951.90	879.40	869.30	864.15	861.00	859.30
5	.4688-.5312	.5000	355964R2	993.85	921.55	911.45	906.30	903.00	901.35



6" CARBIDE TIPPED MILLING CUTTERS GENERAL PURPOSE

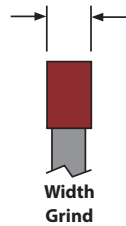


TYPE 3559 - GENERAL PURPOSE

Width grinds between .0704" and .5312"

Cutter Notes (All cutters on page)

- 18 Teeth
- C-2(m) Carbide
- 5° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 363 Brinell (39Rc)



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
6	.0704 - .0859	.0681	355966D	836.40	792.80	784.95	780.90	778.30	721.05
6	.0860 - .1015	.0838	355968D	779.30	735.75	727.85	723.90	721.30	664.00
6	.1016 - .1171	.0994	355970D	838.85	795.40	787.35	783.30	780.90	723.50
6	.1172 - .1406	.1150	355972D	798.25	754.75	746.90	742.75	740.30	683.05
6	.1407 - .1718	.1562	355974D	828.05	784.65	776.75	772.65	770.20	712.85
6	.1719 - .2031	.1875	355976D	858.00	814.40	806.75	802.35	799.90	742.65
6	.2032 - .2343	.2188	355978D	887.85	844.30	836.40	832.25	829.80	772.55
6	.2344 - .2812	.2500	355980D	929.05	885.60	877.55	873.50	871.15	813.70
6	.2813 - .3437	.3125	355982D	965.50	921.85	914.05	909.90	907.55	850.15
6	.3438 - .4062	.3750	355984D	998.20	954.50	946.80	942.65	940.20	882.80
6	.4063 - .4687	.4375	355990D	1040.15	996.60	988.80	984.65	982.20	924.85
6	.4688 - .5312	.5000	355992D	1082.20	1038.75	1030.80	1026.75	1024.25	966.95

Corner Radius or Chamfer on ONE Side

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
6	.0704 - .0859	.0681	355966R1	\$863.10	\$800.45	\$791.65	\$787.20	\$784.45	\$783.00
6	.0860 - .1015	.0838	355968R1	806.05	743.35	734.60	730.15	727.40	725.95
6	.1016 - .1171	.0994	355970R1	865.70	802.90	794.10	789.55	786.80	785.45
6	.1172 - .1406	.1150	355972R1	825.05	762.35	753.55	749.00	746.35	744.90
6	.1407 - .1718	.1562	355974R1	854.95	792.35	783.45	779.05	776.25	774.80
6	.1719 - .2031	.1875	355976R1	884.75	822.05	813.35	808.80	806.05	804.65
6	.2032 - .2343	.2188	355978R1	914.60	851.95	843.30	838.55	836.00	834.50
6	.2344 - .2812	.2500	355980R1	955.90	893.30	884.45	879.95	877.20	875.65
6	.2813 - .3437	.3125	355982R1	992.25	929.60	920.95	916.35	913.60	912.05
6	.3438 - .4062	.3750	355984R1	1024.90	962.25	953.45	948.95	946.25	944.80
6	.4063 - .4687	.4375	355990R1	1066.95	1004.40	995.60	991.10	988.25	986.85
6	.4688 - .5312	.5000	355992R1	1109.05	1046.35	1037.55	1033.10	1030.40	1028.80

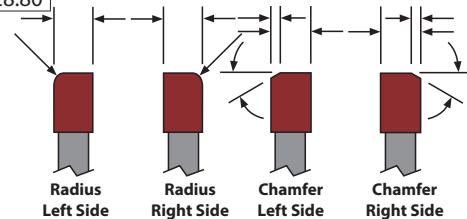
Radius Notes

- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is 1/2 the width of the cutter
- A non-tangent radii must be quoted

Chamfer Notes

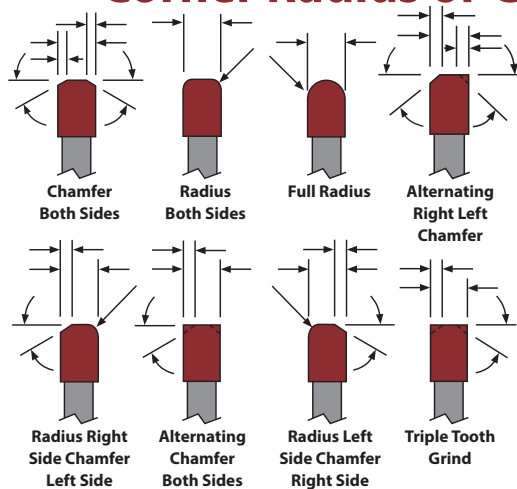
- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of 1/2 the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: +/- 1/2°
- Chamfers greater than 45° must be quoted

Specify side for radius or chamfer



Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
6	.0704-.0859	.0681	355966R2	\$890.50	\$815.80	\$805.35	\$799.90	\$796.60	\$794.80
6	.0860-.1015	.0838	355968R2	833.40	758.75	748.25	742.80	739.60	737.75
6	.1016-.1171	.0994	355970R2	893.05	818.25	807.75	802.35	799.10	797.40
6	.1172-.1406	.1150	355972R2	852.50	777.75	767.20	761.80	758.60	756.75
6	.1407-.1718	.1562	355974R2	882.30	807.50	797.10	791.65	788.40	786.65
6	.1719-.2031	.1875	355976R2	912.05	837.30	826.90	821.60	818.40	816.55
6	.2032-.2343	.2188	355978R2	941.95	867.30	856.80	851.45	848.15	846.35
6	.2344-.2812	.2500	355980R2	983.20	908.45	898.05	892.60	889.30	887.70
6	.2813-.3437	.3125	355982R2	1019.50	944.95	934.45	929.05	925.80	924.00
6	.3438-.4062	.3750	355984R2	1052.15	977.50	967.10	961.75	958.45	956.75
6	.4063-.4687	.4375	355990R2	1094.35	1019.50	1009.15	1003.80	1000.50	998.75
6	.4688-.5312	.5000	355992R2	1136.40	1061.70	1051.25	1045.95	1042.65	1040.85

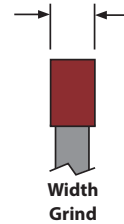
3" CARBIDE TIPPED MILLING CUTTERS FOR STEEL

TYPE 3556 - FOR STEEL



Width grinds between .0600" and .5312"

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH - FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5 PC	6 PC
3	.0600-.0703	.0555	355698D	\$517.25	\$482.30	\$475.75	\$472.55	\$470.55	\$424.50
3	.0704-.0859	.0711	355600D	605.90	570.95	564.60	561.45	559.45	513.35
3	.0860-.1015	.0867	355602D	517.25	482.30	475.75	472.55	470.55	424.50
3	.1016-.1171	.1024	355604D	484.25	449.25	442.90	439.75	437.65	391.75
3	.1172-.1406	.1180	355606D	447.50	412.60	406.25	403.10	400.90	354.95
3	.1407-.1718	.1562	355608D	465.50	430.55	424.20	420.95	418.80	372.85
3	.1719-.2031	.1875	355609D	483.45	448.50	442.10	438.90	436.85	390.85
3	.2032-.2343	.2188	355610D	501.30	466.40	460.15	456.75	454.85	408.70
3	.2344-.2812	.2500	355611D	519.40	484.45	478.05	474.90	472.80	426.80
3	.2813-.3437	.3125	355612D	560.55	525.50	519.25	516.00	513.95	467.95
3	.3438-.4062	.3750	355613D	601.95	567.00	560.55	557.30	555.25	509.20
3	.4063-.4687	.4375	355614D	658.35	623.40	617.10	613.90	611.80	565.85
3	.4688-.5312	.5000	355615D	721.30	686.30	680.05	676.80	674.75	628.75



Cutter Notes (All cutters on page)

- 16 Teeth
- C-5 Carbide
- 0° - 3° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 475 Brinell (50RC)

Corner Radius or Chamfer on ONE Side

Radius Notes

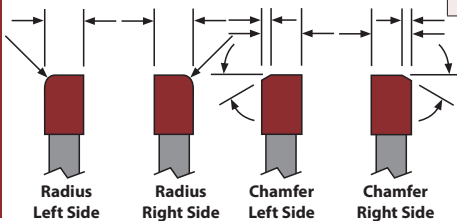
- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is 1/2 the width of the cutter
- A non-tangent radii must be quoted

Chamfer Notes

- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of 1/3 the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: +/- 1/2°
- Chamfers greater than 45° must be quoted

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED WITH RADIUS OR CHAMFER					
				1 PC	2 PC	3 PC	4 PC	5 PC	6 PC
3	.0600-.0703	.0555	355698R1	\$540.55	\$489.40	\$482.30	\$478.55	\$476.30	\$475.15
3	.0704-.0859	.0711	355600R1	629.35	578.15	571.05	567.35	565.15	564.00
3	.0860-.1015	.0867	355602R1	540.55	489.40	482.30	478.55	476.30	475.15
3	.1016-.1171	.1024	355604R1	507.75	456.45	449.30	445.70	443.50	442.20
3	.1172-.1406	.1180	355606R1	470.95	419.80	412.70	409.00	406.70	405.50
3	.1407-.1718	.1562	355608R1	488.80	437.75	430.60	427.00	424.55	423.50
3	.1719-.2031	.1875	355609R1	506.90	455.70	448.65	444.90	442.65	441.50
3	.2032-.2343	.2188	355610R1	524.80	473.60	466.50	462.75	460.60	459.35
3	.2344-.2812	.2500	355611R1	542.85	491.65	484.50	480.90	478.55	477.30
3	.2813-.3437	.3125	355612R1	583.90	532.70	525.60	521.90	519.70	518.55
3	.3438-.4062	.3750	355613R1	625.15	574.20	567.05	563.30	561.00	559.85
3	.4063-.4687	.4375	355614R1	681.90	630.60	623.55	619.85	617.65	616.55
3	.4688-.5312	.5000	355615R1	744.80	693.60	686.50	682.85	680.50	679.50

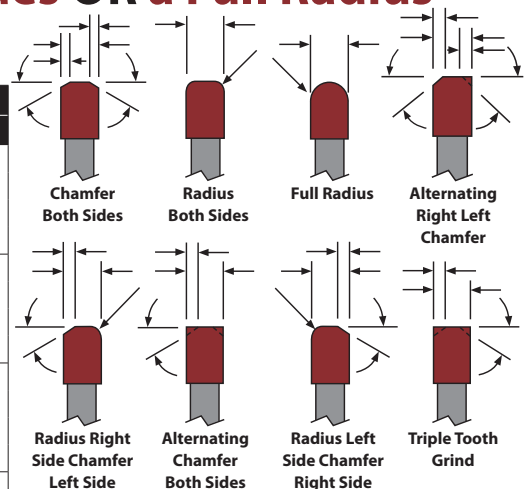
Specify side for radius or chamfer



Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED WITH RADIUS, CHAMFERS, OR COMBINATION					
				1 PC	2 PC	3 PC	4 PC	5 PC	6 PC
3	.0600-.0703	.0555	355698R2	\$553.40	\$496.70	\$488.65	\$484.50	\$482.15	\$480.85
3	.0704-.0859	.0711	355600R2	642.35	585.45	577.40	573.35	570.90	569.45
3	.0860-.1015	.0867	355602R2	553.40	496.70	488.65	484.50	482.15	480.85
3	.1016-.1171	.1024	355604R2	520.55	463.75	455.70	451.60	449.15	447.85
3	.1172-.1406	.1180	355606R2	483.90	427.00	419.05	415.00	412.45	411.05
3	.1407-.1718	.1562	355608R2	501.75	444.90	437.00	432.90	430.40	429.10
3	.1719-.2031	.1875	355609R2	519.70	462.90	455.00	450.95	448.35	447.10
3	.2032-.2343	.2188	355610R2	537.80	480.90	472.85	468.80	466.35	464.90
3	.2344-.2812	.2500	355611R2	555.70	498.85	490.85	486.80	484.25	482.95
3	.2813-.3437	.3125	355612R2	596.85	540.00	532.05	527.90	525.45	524.05
3	.3438-.4062	.3750	355613R2	638.10	581.25	573.35	569.30	566.85	565.45
3	.4063-.4687	.4375	355614R2	694.75	637.90	630.00	625.90	623.30	622.00
3	.4688-.5312	.5000	355615R2	757.70	700.75	692.90	688.85	686.25	684.95





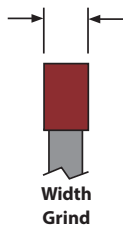
4" CARBIDE TIPPED MILLING CUTTERS FOR STEEL

TYPE 3556 - FOR STEEL

Width grinds between .0600" and .5312"

Cutter Notes (All cutters on page)

- 20 Teeth
- C-5 Carbide
- 5° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 475 Brinell (50Rc)



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
4	.0600-.0703	.0545	355616D	\$622.65	\$582.25	\$574.65	\$570.75	\$568.35	\$513.35
4	.0704-.0859	.0701	355618D	670.85	630.50	622.95	619.05	616.75	561.70
4	.0860-.1015	.0858	355620D	622.65	582.25	574.65	570.75	568.35	513.35
4	.1016-.1171	.1014	355622D	594.80	554.40	546.80	542.90	540.45	485.40
4	.1172-.1406	.1170	355624D	562.70	522.30	514.70	510.80	508.50	453.40
4	.1407-.1718	.1562	355626D	596.50	556.10	548.60	544.60	542.30	487.25
4	.1719-.2031	.1875	355628D	598.40	558.10	550.50	546.60	544.15	489.10
4	.2032-.2343	.2188	355630D	627.30	587.00	579.40	575.40	573.20	518.15
4	.2344-.2812	.2500	355632D	634.15	593.75	586.15	582.25	579.95	524.80
4	.2813-.3437	.3125	355634D	678.65	638.40	630.75	626.90	624.55	569.45
4	.3438-.4062	.3750	355636D	719.95	679.65	672.15	668.15	665.65	610.65
4	.4063-.4687	.4375	355638D	787.80	747.40	739.90	735.85	733.55	678.50
4	.4688-.5312	.5000	355640D	863.15	822.90	815.25	811.35	808.95	754.00

Corner Radius or Chamfer on ONE Side

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
4	.0600-.0703	.0545	355616R1	\$647.85	\$590.00	\$581.70	\$577.25	\$574.55	\$573.20
4	.0704-.0859	.0701	355618R1	696.20	638.40	630.00	625.45	622.95	621.50
4	.0860-.1015	.0858	355620R1	647.85	590.00	581.70	577.25	574.55	573.20
4	.1016-.1171	.1014	355622R1	619.95	562.15	553.85	549.45	546.75	545.35
4	.1172-.1406	.1170	355624R1	587.90	530.20	521.75	517.40	514.65	513.35
4	.1407-.1718	.1562	355626R1	621.80	564.00	555.65	551.20	548.60	547.15
4	.1719-.2031	.1875	355628R1	623.60	565.90	557.55	553.05	550.40	549.05
4	.2032-.2343	.2188	355630R1	652.65	594.90	586.45	582.00	579.40	578.00
4	.2344-.2812	.2500	355632R1	659.35	601.45	593.20	588.85	586.05	584.70
4	.2813-.3437	.3125	355634R1	703.95	646.30	637.75	633.35	630.75	629.30
4	.3438-.4062	.3750	355636R1	745.20	687.40	678.90	674.50	671.90	670.45
4	.4063-.4687	.4375	355638R1	813.05	755.25	746.90	742.50	739.75	738.45
4	.4688-.5312	.5000	355640R1	888.45	830.75	822.20	817.80	815.15	813.70

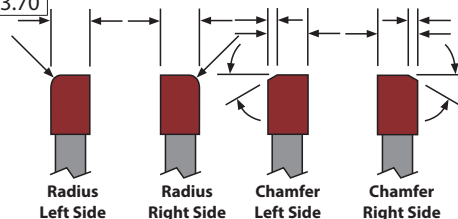
Radius Notes

- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is 1/2 the width of the cutter
- A non-tangent radii must be quoted

Chamfer Notes

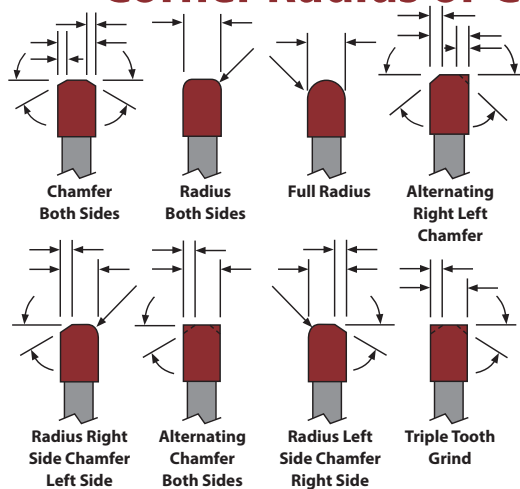
- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of 1/2 the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: +/- 1/2°
- Chamfers greater than 45° must be quoted

Specify side for radius or chamfer



Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
4	.0600-.0703	.0545	355616R2	\$661.55	\$597.85	\$588.60	\$583.75	\$580.80	\$579.25
4	.0704-.0859	.0701	355618R2	709.85	646.30	637.05	632.05	629.15	627.55
4	.0860-.1015	.0858	355620R2	661.55	597.85	588.60	583.75	580.80	579.25
4	.1016-.1171	.1014	355622R2	633.75	570.05	560.70	555.95	552.95	551.40
4	.1172-.1406	.1170	355624R2	601.80	538.00	528.80	523.85	520.90	519.40
4	.1407-.1718	.1562	355626R2	635.60	571.80	562.60	557.70	554.70	553.20
4	.1719-.2031	.1875	355628R2	637.50	573.65	564.35	559.70	556.70	555.10
4	.2032-.2343	.2188	355630R2	666.45	602.60	593.50	588.50	585.60	584.00
4	.2344-.2812	.2500	355632R2	673.05	609.45	600.15	595.25	592.25	590.80
4	.2813-.3437	.3125	355634R2	717.85	654.05	644.80	639.85	637.10	635.35
4	.3438-.4062	.3750	355636R2	758.90	695.20	685.95	681.10	678.20	676.65
4	.4063-.4687	.4375	355638R2	826.80	763.05	753.70	748.95	746.05	744.40
4	.4688-.5312	.5000	355640R2	902.25	838.45	829.20	824.35	821.55	819.95

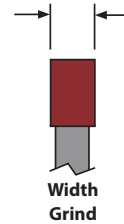
5" CARBIDE TIPPED MILLING CUTTERS FOR STEEL

TYPE 3556 - FOR STEEL



Width grinds between .0704" and .5312"

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
5	.0704-.0859	.0691	355642D	\$807.20	\$766.05	\$758.40	\$754.25	\$751.85	\$695.50
5	.0860-.1015	.0848	355644D	812.10	770.85	763.20	759.15	756.70	700.45
5	.1016-.1171	.1004	355646D	765.05	723.95	716.20	712.10	709.70	653.50
5	.1172-.1406	.1160	355648D	678.35	637.20	629.35	625.30	622.95	566.65
5	.1407-.1718	.1562	355650D	691.40	650.20	642.50	638.40	636.05	579.70
5	.1719-.2031	.1875	355652D	732.15	690.90	683.20	679.10	676.75	620.50
5	.2032-.2343	.2188	355654D	749.85	708.70	700.75	696.75	694.35	638.10
5	.2344-.2812	.2500	355656D	777.25	736.00	728.25	724.25	721.90	665.55
5	.2813-.3437	.3125	355658D	835.40	794.30	786.50	782.50	780.00	723.90
5	.3438-.4062	.3750	355660D	893.80	852.65	844.75	840.85	838.30	782.15
5	.4063-.4687	.4375	355662D	980.75	939.50	931.75	927.60	925.30	869.05
5	.4688-.5312	.5000	355664D	1077.30	1036.00	1028.35	1024.25	1021.95	965.55



Cutter Notes (All cutters on page)

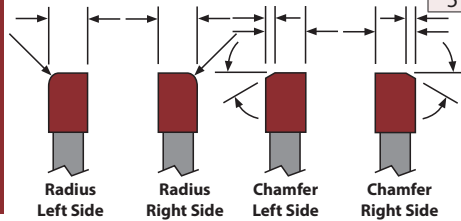
- 24 Teeth
- C-5 Carbide
- 1° - 3° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 475 Brinell (50RC)

Radius Notes

- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is 1/2 the width of the cutter
- A non-tangent radii must be quoted

Chamfer Notes

- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of 1/3 the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: +/- 1/2°
- Chamfers greater than 45° must be quoted



Corner Radius or Chamfer on ONE Side

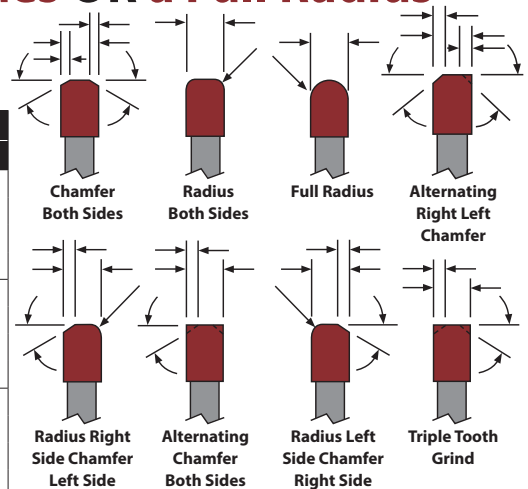
TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
5	.0704-.0859	.0691	355642R1	\$832.80	\$773.85	\$765.25	\$760.75	\$758.05	\$756.60
5	.0860-.1015	.0848	355644R1	837.80	778.85	770.20	765.75	762.95	761.50
5	.1016-.1171	.1004	355646R1	790.70	731.70	723.10	718.60	716.05	714.60
5	.1172-.1406	.1160	355648R1	703.90	644.95	636.25	631.90	629.15	627.75
5	.1407-.1718	.1562	355650R1	717.00	658.05	649.45	644.95	642.35	640.80
5	.1719-.2031	.1875	355652R1	757.70	698.75	690.25	685.70	683.05	681.55
5	.2032-.2343	.2188	355654R1	775.40	716.45	707.80	703.40	700.60	699.20
5	.2344-.2812	.2500	355656R1	802.90	743.95	735.30	730.80	728.10	726.55
5	.2813-.3437	.3125	355658R1	861.10	802.05	793.55	789.10	786.35	784.95
5	.3438-.4062	.3750	355660R1	919.50	860.45	851.75	847.30	844.55	843.25
5	.4063-.4687	.4375	355662R1	1006.25	947.40	938.75	934.30	931.60	930.15
5	.4688-.5312	.5000	355664R1	1102.85	1043.90	1035.25	1030.80	1028.20	1026.65

Specify side for radius or chamfer

Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
5	.0704-.0859	.0691	355642R2	\$860.25	\$789.50	\$779.20	\$773.85	\$770.65	\$768.90
5	.0860-.1015	.0848	355644R2	865.25	794.40	784.15	778.60	775.40	773.80
5	.1016-.1171	.1004	355646R2	818.15	747.40	737.05	731.60	728.40	726.70
5	.1172-.1406	.1160	355648R2	731.40	660.55	650.30	644.85	641.65	639.95
5	.1407-.1718	.1562	355650R2	744.40	673.75	663.40	657.95	654.75	653.05
5	.1719-.2031	.1875	355652R2	785.20	714.45	704.05	698.75	695.50	693.70
5	.2032-.2343	.2188	355654R2	802.90	732.15	721.90	716.35	713.15	711.30
5	.2344-.2812	.2500	355656R2	830.25	759.50	749.20	743.90	740.60	738.85
5	.2813-.3437	.3125	355658R2	888.60	817.80	807.45	802.00	798.85	797.10
5	.3438-.4062	.3750	355660R2	946.80	876.10	865.75	860.30	857.10	855.40
5	.4063-.4687	.4375	355662R2	1033.80	963.10	952.70	947.25	943.95	942.35
5	.4688-.5312	.5000	355664R2	1130.30	1059.60	1049.20	1043.80	1040.70	1038.90



6" CARBIDE TIPPED MILLING CUTTERS FOR STEEL

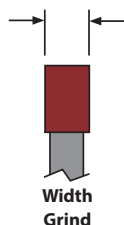
TYPE 3556 - FOR STEEL



Width grinds between .0704" and .5312"

Cutter Notes (All cutters on page)

- 28 Teeth
- C-5 Carbide
- 1° - 3° Positive Radial Rake
- Width Tolerance: +.001"/-.000"
- OD tolerance: +.0313"/-.000"
- 1" Arbor hole +.001"/-.000"
- ANSI standard keyway dimensions
- Add 5% to grind the hub width thinner
- Add 5% to match OD's on cutter sets within .001"
- Not designed to be used on heat treated materials greater than 475 Brinell (50Rc)



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
6	.0704 - .0859	.0681	355666D	\$907.15	\$861.95	\$853.10	\$848.50	\$845.85	\$782.00
6	.0860 - .1015	.0838	355668D	841.55	796.40	787.60	783.00	780.30	716.35
6	.1016 - .1171	.0994	355670D	909.85	864.60	855.80	851.25	848.45	784.65
6	.1172 - .1406	.1150	355672D	876.90	831.65	822.90	818.25	815.55	751.65
6	.1407 - .1718	.1562	355674D	876.50	831.10	822.40	817.80	815.10	751.30
6	.1719 - .2031	.1875	355676D	931.20	886.00	877.25	872.65	869.90	805.95
6	.2032 - .2343	.2188	355678D	945.00	899.80	891.05	886.45	883.70	819.85
6	.2344 - .2812	.2500	355680D	1001.65	956.30	947.55	942.95	940.25	876.35
6	.2813 - .3437	.3125	355682D	1013.75	968.45	959.65	955.05	952.40	888.60
6	.3438 - .4062	.3750	355684D	1047.95	1002.50	993.70	989.15	986.50	922.70
6	.4063 - .4687	.4375	355690D	1150.45	1105.15	1096.40	1091.65	1089.05	1025.10
6	.4688 - .5312	.5000	355692D	1264.25	1219.10	1210.40	1205.65	1203.00	1139.10

Corner Radius or Chamfer on ONE Side

TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
6	.0704 - .0859	.0681	355666R1	\$934.20	\$870.45	\$860.80	\$855.65	\$852.65	\$850.95
6	.0860 - .1015	.0838	355668R1	868.50	804.90	795.15	790.10	787.05	785.35
6	.1016 - .1171	.0994	355670R1	936.80	873.10	863.40	858.40	855.35	853.65
6	.1172 - .1406	.1150	355672R1	903.80	840.25	830.50	825.35	822.30	820.60
6	.1407 - .1718	.1562	355674R1	903.45	839.80	830.05	825.00	821.90	820.30
6	.1719 - .2031	.1875	355676R1	958.20	894.50	884.75	879.65	876.65	875.05
6	.2032 - .2343	.2188	355678R1	972.10	908.40	898.55	893.60	890.50	888.85
6	.2344 - .2812	.2500	355680R1	1028.55	964.85	955.05	950.10	947.10	945.40
6	.2813 - .3437	.3125	355682R1	1040.85	977.00	967.30	962.25	959.25	957.60
6	.3438 - .4062	.3750	355684R1	1074.85	1011.10	1001.45	996.35	993.30	991.60
6	.4063 - .4687	.4375	355690R1	1177.40	1113.55	1103.90	1098.80	1095.85	1094.20
6	.4688 - .5312	.5000	355692R1	1291.30	1227.55	1217.90	1212.75	1209.70	1208.15

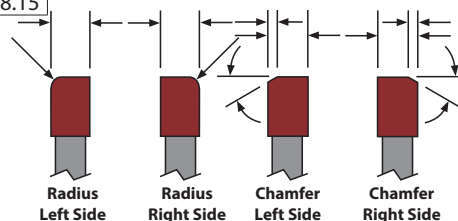
Radius Notes

- Maximum radius on one side is .2656"
- Full radius and maximum radius on both sides is 1/2 the width of the cutter
- A non-tangent radii must be quoted

Chamfer Notes

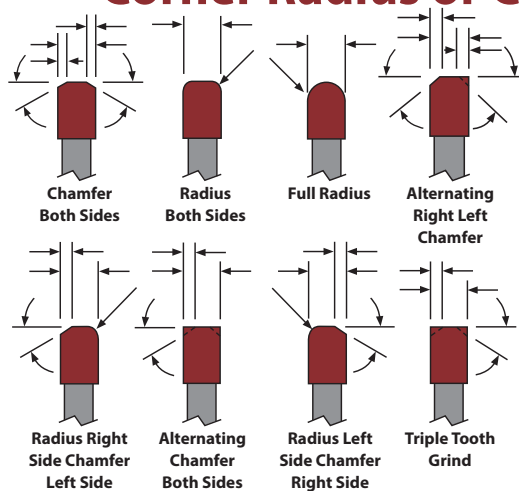
- Chamfer Angles can range from 0° to 45°
- Chamfer is measured off of the OD
- Maximum chamfer is the LESSER of 1/2 the width of the cutter OR .2656" length of angle when measured across the OD
- Chamfer Angle Tolerance: +/- 1/2°
- Chamfers greater than 45° must be quoted

Specify side for radius or chamfer



Corner Radius or Chamfer on BOTH Sides OR a Full Radius

- Alternating Chamfers add 5%



TOOL DIAM.	DECIMAL SIZE WIDTH RANGE	HUB WIDTH	1"ARBOR EDP NO.	PRICE EACH FINISHED TO DECIMAL WIDTH					
				1 PC	2 PC	3 PC	4 PC	5PC	6PC
6	.0704-.0859	.0681	355666R2	\$963.50	\$887.55	\$875.80	\$869.90	\$866.20	\$864.30
6	.0860-.1015	.0838	355668R2	897.90	821.85	810.25	804.20	800.60	798.70
6	.1016-.1171	.0994	355670R2	966.15	890.15	878.55	872.45	869.00	866.90
6	.1172-.1406	.1150	355672R2	933.15	857.10	845.55	839.45	836.00	833.95
6	.1407-.1718	.1562	355674R2	932.75	856.80	845.20	839.10	835.50	833.55
6	.1719-.2031	.1875	355676R2	987.50	911.50	899.85	893.80	890.30	888.20
6	.2032-.2343	.2188	355678R2	1001.35	925.30	913.75	907.70	904.15	902.15
6	.2344-.2812	.2500	355680R2	1057.75	981.80	970.30	964.20	960.60	958.60
6	.2813-.3437	.3125	355682R2	1070.10	994.05	982.40	976.45	972.85	970.85
6	.3438-.4062	.3750	355684R2	1104.15	1028.20	1016.55	1010.40	1006.95	1004.90
6	.4063-.4687	.4375	355690R2	1206.60	1130.65	1119.00	1113.05	1109.45	1107.45
6	.4688-.5312	.5000	355692R2	1320.60	1244.55	1233.00	1226.95	1223.40	1221.35

CARBIDE TIPPED SIDE MILLING CUTTERS

TYPE 3540 - FOR NON-FERROUS

Carbide tips brazed to alloy steel bodies.

High feed rates can be achieved due to the large flute capacity. For milling aluminum, magnesium, zinc, brass, bronze, plastics and non-metals.

TYPE 3541 - FOR CAST IRON

Carbide tips brazed to alloy steel bodies.

Increased number of teeth with large flute capacity permit higher metal removal at moderate speeds and feeds.

TYPE 3542 - FOR STEEL

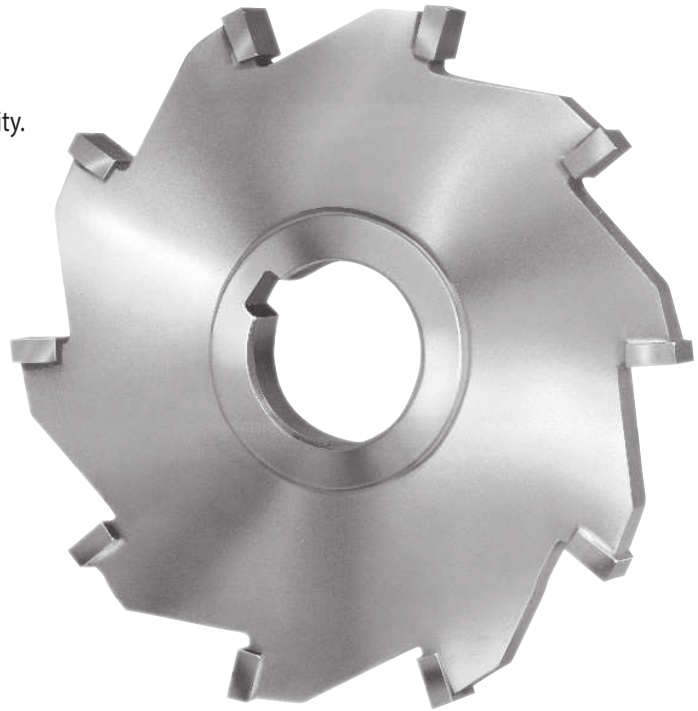
Carbide tips brazed to alloy steel bodies.

Steel cutting grade of carbide permits the heavy chip loads for milling steel.

TYPE 3543 - FOR STAINLESS STEEL

Carbide tips brazed to alloy steel bodies.

High number of teeth for milling of stainless steel and related alloy steels. AISI type 200 thru 350 stainless steels.



ALL TYPES:
Tool diameter tolerance: $+\frac{1}{16}"/-.000"$
Face width tolerance: $+.001"/-.000"$
Arbor hole tolerance: $+.001"/-.000"$
Sharpened on all 3 cutting edges.

TOOL DIAM.	WIDTH		TYPE 3540 FOR NON-FERROUS				TYPE 3541 FOR CAST IRON				TYPE 3542 FOR STEEL				TYPE 3543 FOR STAINLESS STEEL			
	FRACTIONAL	DECIMAL	NO. OF TEETH	1" ARBOR EDP NO.	1 1/4" ARBOR EDP NO.	PRICE EACH	NO. OF TEETH	1" ARBOR EDP NO.	1 1/4" ARBOR EDP NO.	PRICE EACH	NO. OF TEETH	1" ARBOR EDP NO.	1 1/4" ARBOR EDP NO.	PRICE EACH	NO. OF TEETH	1" ARBOR EDP NO.	1 1/4" ARBOR EDP NO.	PRICE EACH
3	1/4	.2500	4	354030	-	\$190.00	6	354130	-	\$237.70	6	354230	-	\$234.70	8	354330	-	\$292.75
3	5/16	.3125	4	354031	-	199.50	6	354131	-	238.75	6	354231	-	237.85	8	354331	-	306.75
3	3/8	.3750	4	354032	-	206.80	6	354132	-	243.45	6	354232	-	240.90	8	354332	-	310.90
3	7/16	.4375	4	354033	-	215.25	6	354133	-	263.30	6	354233	-	268.65	-	-	-	-
3	1/2	.5000	4	354034	-	225.65	6	354134	-	274.20	6	354234	-	272.25	8	354334	-	347.60
4	1/4	.2500	4	354040	-	247.65	8	354140	-	307.05	8	354240	-	309.05	10	354340	-	366.10
4	5/16	.3125	4	354041	-	254.70	8	354141	-	317.40	8	354241	-	328.15	10	354341	-	384.55
4	3/8	.3750	4	354042	354043	261.40	8	354142	354143	333.50	8	354242	354243	328.15	10	354342	354343	393.20
4	7/16	.4375	4	354074	-	262.60	8	354174	-	340.25	8	354274	-	337.95	10	354374	-	426.95
4	1/2	.5000	4	354044	354045	262.60	8	354144	354145	351.45	8	354244	354245	349.70	10	354344	354345	430.15
4	9/16	.5625	4	354094	-	285.45	8	354194	-	361.15	8	354294	-	367.00	-	-	-	-
4	5/8	.6250	4	354046	354047	306.30	8	354146	354147	391.45	8	354246	354247	429.00	10	354346	354347	453.00
4	3/4	.7500	4	354048	354049	343.25	8	354148	354149	391.45	8	354248	354249	434.45	10	354348	354349	466.55
5	1/4	.2500	6	354050	-	346.00	10	354150	-	406.65	10	354250	-	406.85	-	-	-	-
5	5/16	.3125	-	-	-	-	10	354151	-	406.65	10	354251	-	406.85	-	-	-	-
5	3/8	.3750	-	-	-	-	10	-	354153	416.45	10	-	354253	427.15	-	-	-	-
5	7/16	.4375	6	-	354075	359.95	10	-	354175	418.50	10	-	354275	440.90	-	-	-	-
5	1/2	.5000	6	354054	354055	364.25	10	354154	354155	444.25	10	354254	354255	440.95	12	354354	354355	494.15
5	9/16	.5625	6	-	354095	375.90	10	-	354195	451.95	10	-	354295	460.45	-	-	-	-
5	5/8	.6250	6	-	354057	395.45	10	-	354157	481.00	10	-	354257	540.40	12	-	354357	539.70
5	3/4	.7500	6	354058	354059	421.60	10	354158	354159	544.60	10	354258	354259	598.10	12	354358	354359	605.25
5	1	1.0000	6	-	354015	422.25	10	-	354115	592.65	10	-	354215	630.85	-	-	-	-
6	3/8	.3750	6	354062	-	371.30	12	-	354163	511.65	12	-	354263	540.55	-	-	-	-
6	1/2	.5000	6	354064	354065	406.65	12	354164	354165	543.35	12	354264	354265	556.70	14	354364	354365	635.65
6	5/8	.6250	6	-	354067	445.65	12	-	354167	593.80	12	-	354267	605.60	14	-	354367	640.80
6	3/4	.7500	6	354068	354069	512.50	12	354168	354169	666.25	12	354268	354269	689.95	14	354368	354369	691.45
6	1	1.0000	6	-	354016	587.45	12	-	354116	673.30	12	-	354216	703.90	-	-	-	-
				1 1/4" ARBOR	1 1/2" ARBOR			1 1/4" ARBOR	1 1/2" ARBOR			1 1/4" ARBOR	1 1/2" ARBOR			1 1/4" ARBOR	1 1/2" ARBOR	
8	3/4	.7500	8	354088	354089	666.70	12	354188	354189	699.20	12	354288	354289	725.35	14	354388	-	741.35
8	1	1.0000	8	354080	354081	723.50	12	354180	354181	728.70	12	354280	354281	754.95	-	-	-	-

CARBIDE TIPPED ANGLE CUTTERS

SINGLE ANGLE CUTTERS

TYPE 3714 - 45° RIGHT
TYPE 3716 - 45° LEFT

TYPE 3724 - 60° RIGHT
TYPE 3726 - 60° LEFT

(Left hand shown)

Carbide tips brazed to hardened alloy steel bodies. General purpose cutters for cutting non-ferrous materials and cast iron.

TOOL DIAMETER	WIDTH	ARBOR HOLE	NO. OF TEETH	RIGHT 45° TYPE 3714 EDP NO.	LEFT 45° TYPE 3716 EDP NO.	RIGHT 60° TYPE 3724 EDP NO.	LEFT 60° TYPE 3726 EDP NO.	ALL TYPES PRICE
3	1/2	1	8	371408	371608	372408	372608	\$593.25
4	1/2	1 1/4	10	371416	371616	372416	372616	734.15
4	3/4	1 1/4	10	371424	371624	372424	372624	796.45

DOUBLE ANGLE CUTTERS

TYPE 3750 - 45° DOUBLE
TYPE 3752 - 60° DOUBLE
TYPE 3754 - 90° DOUBLE

Carbide tips brazed to hardened alloy steel bodies. General purpose cutters for cutting non-ferrous materials and cast iron.

TOOL DIAMETER	WIDTH	ARBOR HOLE	NO. OF TEETH	45° TYPE 3750 EDP NO.	60° TYPE 3752 EDP NO.	90° TYPE 3754 EDP NO.	ALL TYPES PRICE
2 3/4	1/2	1	8	-	375207	375407	\$499.45
3	1/2	1	8	375008	375208	375408	622.85
4	1/2	1 1/4	10	375016	375216	375416	770.85
4	3/4	1 1/4	10	375024	375224	375424	836.15
4	1	1 1/4	10	-	375232	375432	978.60

CARBIDE TIPPED SHELL MILL CUTTERS

Carbide tips brazed to alloy steel bodies.

TYPE 3530 - FOR NON-FERROUS

Large, open right hand spiral flutes aid in chip removal.

TYPE 3531 - FOR CAST IRON

Open flutes for machining cast iron, soft cast iron and malleable iron.

TYPE 3532 - FOR STEEL

Large, open left hand spiral flutes absorb impact shock.

ALL TYPES ON THIS PAGE:

Tool diameter tolerance: +1/16"/-.000".

Arbor hole tolerance: +.001"/-.000".

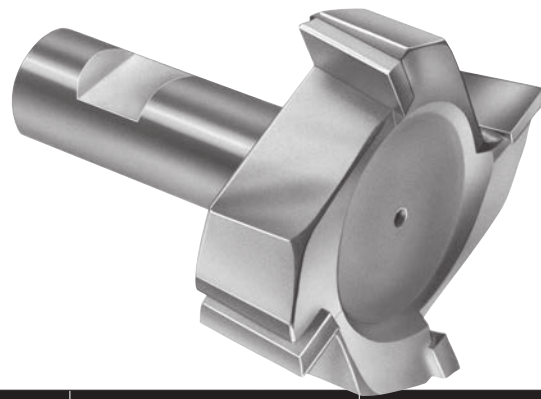
TOOL DIAMETER	ARBOR HOLE	CARBIDE LENGTH	OVERALL LENGTH	DRIVE SLOTS		TYPE 3530 FOR NON-FERROUS			TYPE 3531 FOR CAST IRON			TYPE 3532 FOR STEEL		
				WIDTH	DEPTH	NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH
1 1/4	1/2	1/2	1	1/4	5/32	4	353024	\$284.15	4	353124	\$284.15	4	353224	\$295.55
1 1/2	1/2	1/2	1 1/8	1/4	5/32	4	353026	295.85	4	353126	295.85	4	353226	307.65
1 3/4	3/4	1/2	1 1/4	5/16	3/16	4	353028	368.70	4	353128	368.70	4	353228	383.35
2	3/4	5/8	1 3/8	5/16	3/16	4	353032	387.15	4	353132	411.90	4	353232	428.30
2 1/4	1	5/8	1 1/2	3/8	7/32	6	353036	409.00	6	353136	445.95	6	353236	463.80
2 1/2	1	5/8	1 5/8	3/8	7/32	6	353040	430.60	6	353140	486.10	6	353240	486.10
2 3/4	1	5/8	1 5/8	3/8	7/32	6	353044	454.45	6	353144	509.95	6	353244	509.95
3	1 1/4	3/4	1 3/4	1/2	9/32	6	353048	498.15	6	353148	554.65	6	353248	554.65
3 1/2	1 1/4	3/4	1 7/8	1/2	9/32	6	353056	609.75	8	353156	652.30	6	353256	689.45
4	1 1/2	3/4	2 1/4	5/8	3/8	6	353064	766.20	8	353164	806.95	6	353264	856.50

CARBIDE TIPPED FACE MILLS

TYPE 3536 - FOR NON-FERROUS
TYPE 3537 - FOR CAST IRON
TYPE 3538 - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies.

Straight shank with Weldon flats. Tools are designed with appropriate carbide grade and geometry for material being machined.



TOOL DIAMETER	SHANK DIAMETER	TOOL WIDTH	CARBIDE LENGTH	DEPTH OF CARBIDE	OVERALL LENGTH	TYPE 3536 - NON-FERROUS			TYPE 3537 - CAST IRON			TYPE 3538 - STEEL		
						NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH	NO. OF TEETH	EDP NO.	PRICE EACH
1 1/2	3/4	3/4	1/2	1/4	2 7/8	4	353624	\$264.85	4	353724	\$264.85	4	353824	\$272.50
2	3/4	3/4	1/2	1/4	2 7/8	4	353632	323.75	4	353732	323.75	4	353832	331.35
2 1/2	3/4	3/4	1/2	1/4	2 7/8	6	353640	364.55	6	353740	364.55	6	353840	374.35
3 1/2	1 1/4	1 1/8	5/8	5/16	4	6	353656	629.15	6	353756	629.15	8	353856	650.75
3 1/2	1 1/2	1 1/8	5/8	5/16	4	6	353657	660.65	6	353757	660.65	8	353857	683.20
4	1 1/2	1 1/2	3/4	3/8	5	8	353664	706.95	8	353764	706.95	8	353864	707.80

CARBIDE TIPPED COUNTERSINKS

SINGLE FLUTE COUNTERSINKS

TYPE 3561 - 60°
TYPE 3581 - 82°
TYPE 3591 - 90°
TYPE 3584 - 100°

Carbide tips brazed to hardened alloy steel bodies.

The single flute design with a positive rake assures burr-free holes and chatterless operation. Not recommended for portable hand tool use — see three flute types.



THREE FLUTE COUNTERSINKS

TYPE 3563 - 60°
TYPE 3583 - 82°
TYPE 3590 - 90°
TYPE 3585 - 100°

Carbide tips brazed to hardened alloy steel bodies.

The three flute design tends to center the tool in portable tool use and results in longer tool life.



TOOL DIAM.	SHANK DIAM.	MINIMUM CUTTING DIAM.	60° ANGLE TYPE 3561 EDP NO.	82° ANGLE TYPE 3581 EDP NO.	90° ANGLE TYPE 3591 EDP NO.	100° ANGLE TYPE 3584 EDP NO.	ALL TYPES PRICE
1/4	3/16	1/16	356108	358108	359108	358408	\$93.65
3/8	1/4	5/64	356112	358112	359112	358412	93.65
1/2	3/8	3/32	356116	358116	359116	358416	111.20
3/4	1/2	1/8	356124	358124	359124	358424	139.10
1	1/2	1/8	356132	358132	359132	358432	181.65
1 1/4	1/2	5/32	356140	358140	359140	358440	231.20
1 1/2	1/2	3/16	356148	358148	359148	358448	259.25

TOOL DIAM.	SHANK DIAM.	MINIMUM CUTTING DIAM.	60° ANGLE TYPE 3563 EDP NO.	82° ANGLE TYPE 3583 EDP NO.	90° ANGLE TYPE 3590 EDP NO.	100° ANGLE TYPE 3585 EDP NO.	ALL TYPES PRICE
1/4	3/16	5/64	356308	358308	359008	358508	\$103.00
3/8	1/4	7/64	356312	358312	359012	358512	103.00
1/2	3/8	9/64	356316	358316	359016	358516	122.35
3/4	1/2	1/8	356320	358320	359020	358520	128.70
1	1/2	1/8	356324	358324	359024	358524	154.75
1 1/4	1/2	5/32	356328	358328	359028	358528	177.35
1 1/2	1/2	3/16	356332	358332	359032	358532	193.45
1 1/2	1/2	3/16	356340	358340	359040	358540	240.70
1 1/2	1/2	3/8	356348	358348	359048	358548	280.70

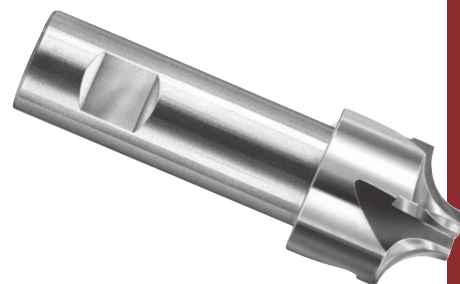
CARBIDE TIPPED CORNER ROUNDING END MILLS

TYPE 3740 - FOR NON-FERROUS & CAST IRON

TYPE 3741 - FOR STEEL

CIRCLE RADIUS	TOOL DIAM.	SHANK DIAM.	END DIAM.	CARBIDE LENGTH	OVERALL LENGTH	TYPE 3740		TYPE 3741	
						EDP NO.	PRICE EACH	EDP NO.	PRICE EACH
1/16	7/16	3/8	17/64	13/32	2 3/4	374002	\$184.55	374102	\$199.50
3/32	1/2	3/8	17/64	13/32	2 3/4	374003	184.55	374103	199.50
1/8	5/8	1/2	19/64	13/32	3	374004	191.15	374104	206.25
5/32	3/4	1/2	23/64	13/32	3	374005	202.75	374105	218.90
3/16	7/8	3/4	13/32	13/32	3 1/4	374006	214.45	374106	231.55
1/4	1	3/4	13/32	15/32	3 1/4	374008	244.45	374108	263.90
5/16	1 1/8	7/8	13/32	19/32	3 1/2	374010	251.10	374110	271.20
3/8	1 1/4	7/8	13/32	25/32	3 3/4	374012	260.85	374112	281.75
7/16	1 3/8	1	13/32	7/8	4	374014	290.50	374114	313.75
1/2	1 1/2	1	13/32	1	4	374016	323.25	374116	349.30
5/8	2	1 1/4	21/32	1 7/32	4 1/4	374020	397.80	374120	429.70

Carbide tips brazed to hardened alloy steel bodies. All sizes have three flutes and are used to mill round corners on square edges.



CARBIDE TIPPED CENTER CUTTING END MILLS

TYPE 3318 - 25° RIGHT SPIRAL FLUTES - FOR NON-FERROUS & CAST IRON

Flute long carbide tips brazed to hardened alloy steel bodies.



TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	CARBIDE TIP LENGTH	OVER ALL LEN.	TYPE 3318 - 25° RIGHT SPIRAL	
DECIMAL	FRAC.					EDP NO.	PRICE EACH
.5000	1/2	1/2	2	1	3	331816	\$256.25
.6250	5/8	5/8	2	1 1/4	3 3/8	331820	286.45
.7500	3/4	3/4	2	1 1/4	3 3/8	331824	303.55
.8750	7/8	7/8	2	1 1/2	3 3/4	331828	333.80
1.0000	1	1	2	1 1/2	4	331832	383.65
1.2500	1 1/4	1 1/4	2	1 3/4	4 1/4	331840	521.45
1.5000	1 1/2	1 1/2	2	2	4 3/4	331848	608.45

TYPE 3314 - THREE STRAIGHT FLUTES - FOR NON-FERROUS & CAST IRON

TYPE 3312 - THREE STRAIGHT FLUTES - FOR STEEL

Flute long carbide tips brazed to hardened alloy steel bodies.



ALL TYPES:

One flute is center cutting.

Straight shanks with drive flats.

Tool diameter tolerance: +.002"/-.000".

For plunge and side cut milling at moderate feeds and speeds.

TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	CARBIDE TIP LENGTH	OVERALL LENGTH	TYPE 3314 - FOR NON-FERR. & C.I.		TYPE 3312 - FOR STEEL	
DECIMAL	FRAC.					EDP NO.	PRICE EACH	EDP NO.	PRICE EACH
.3750	3/8	3/8	3	1/2	2 1/2	331412	\$153.20	331212	\$159.30
.4375	7/16	3/8	3	3/4	2 1/2	331414	156.65	331214	162.80
.5000	1/2	1/2	3	3/4	3	331416	160.80	331216	166.80
.5625	9/16	1/2	3	3/4	3	331418	166.95	331218	173.45
.6250	5/8	5/8	3	3/4	3 1/4	331420	195.45	331220	202.80
.7500	3/4	5/8	3	3/4	3 3/8	331424	204.50	331224	212.40
.8750	7/8	7/8	3	3/4	3 3/4	331428	238.70	331228	247.95
1.0000	1	7/8	3	3/4	3 3/4	331432	262.20	331232	272.35
1.1250	1 1/8	1	3	3/4	4	331436	280.90	331236	291.60
1.2500	1 1/4	1	3	3/4	4	331440	325.45	331240	338.10
1.5000	1 1/2	1 1/4	3	3/4	4	331448	386.95	331248	401.90

CARBIDE TIPPED BRIDGEPORT/REDUCED SHANK END MILLS

TYPE 3323 - 15° RIGHT SPIRAL FLUTES - FOR NON-FERROUS & CAST IRON

TYPE 3353 - 15° RIGHT SPIRAL FLUTES - FOR STEEL

Flute long carbide tips brazed to hardened alloy steel bodies.

The large capacity 15° spiral flutes permit easy chip flow. 3/4" shank designed for use on Bridgeport style machines.



TOOL DIAMETER		SHANK DIAM.	CARBIDE TIP LENGTH	OVER ALL LENGTH	NO. OF FLUTES	N-F/C.I. TYPE 3323 EDP NO.	STEEL TYPE 3353 EDP NO.	BOTH TYPES PRICE
DECIMAL	FRACTION							
.7500	3/4	3/4	1 1/4	3 3/8	4	332324	335324	\$195.90
.8750	7/8	3/4	1 1/2	3 3/4	4	332328	335328	224.35
1.0000	1	3/4	1 1/2	4	6	332332	335332	314.70
1.1250	1 1/8	3/4	1 3/4	4 1/4	6	332336	335336	370.20
1.2500	1 1/4	3/4	1 3/4	4 1/4	6	332340	335340	424.40
1.5000	1 1/2	3/4	2	4 1/2	6	332348	335348	488.35

CARBIDE TIPPED CNC FINISHING END MILLS

TYPE 3322 - 15° RIGHT SPIRAL FLUTES - FOR NON-FERROUS & CAST IRON

TYPE 3355 - 15° RIGHT SPIRAL FLUTES - FOR STEEL

Flute long carbide tips brazed to hardened alloy steel bodies.

CNC qualified edge provides for accurate and consistent resharping. Carbide grade and tool geometry appropriate for material being machined.



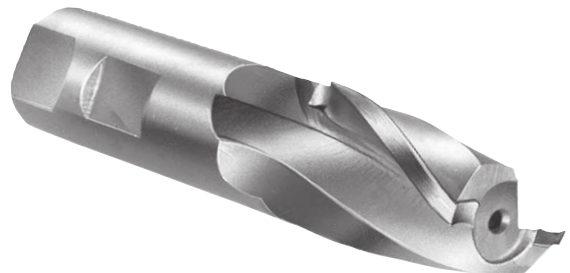
TOOL DIAMETER		SHANK DIAM.	CARBIDE TIP LENGTH	OVER ALL LENGTH	NO. OF FLUTES	N-F/C.I. TYPE 3322 EDP NO.	STEEL TYPE 3355 EDP NO.	BOTH TYPES PRICE
DECIMAL	FRACTION							
.5000	1/2	1/2	1	3	4	332216	335516	\$173.70
.6250	5/8	5/8	1 1/4	3 3/8	4	332220	335520	200.50
.7500	3/4	5/8	1 1/4	3 3/8	4	332224	335524	223.35
1.0000	1	1	1 1/2	4	6	332232	335532	358.65
1.1250	1 1/8	1	1 3/4	4 1/4	6	332236	335536	422.05
1.2500	1 1/4	1	1 3/4	4 1/4	6	332240	335540	483.80
1.5000	1 1/2	1 1/4	2	4 1/2	6	332248	335548	556.70
1.7500	1 3/4	1 1/4	2	4 1/2	8	332256	335556	700.25
2.0000	2	1 1/4	2	4 1/2	8	332264	335564	791.10

CARBIDE TIPPED CNC HIGH PERFORMANCE END MILLS

TYPE 3337 - 25° RIGHT SPIRAL FLUTES - FOR ALUMINUM & OTHER NON-FERROUS

Flute long carbide tips brazed to hardened alloy steel bodies.

High helix, high performance open flute design for high speed non-ferrous metal removal. CNC qualified edge provides for accurate and consistent resharping.

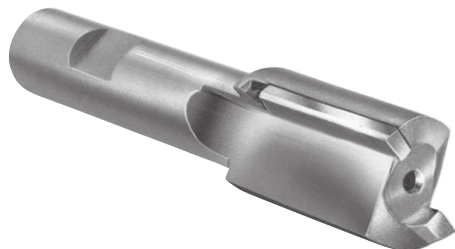


TOOL DIAMETER		SHANK DIAM.	CARBIDE TIP LENGTH	OVER ALL LENGTH	NO. OF FLUTES	NON-FERR. TYPE 3337 EDP NO.	PRICE EACH
DECIMAL	FRACTION						
.5000	1/2	1/2	1	3	2	333716	\$173.70
.6250	5/8	5/8	1 1/4	3 3/8	2	333720	200.50
.7500	3/4	5/8	1 1/4	3 3/8	2	333724	223.35
1.0000	1	1	1 1/2	4	2	333732	295.40
1.2500	1 1/4	1	1 3/4	4 1/4	3	333740	428.95
1.5000	1 1/2	1 1/4	2	4 1/2	3	333748	519.70
2.0000	2	1 1/4	2	4 1/2	3	333764	759.05

CARBIDE TIPPED END MILLS - FOR STEEL

TYPE 3300 - TWO STRAIGHT FLUTES

Flute long carbide tips brazed to hardened alloy steel bodies.
Large flute capacity for easier chip removal.



TYPE 3308 - 6° RIGHT SPIRAL FLUTES

Flute long carbide tips brazed to hardened alloy steel bodies.
Spiral flutes help remove chips, permitting faster speeds and higher feed rate. Produces better finish.



TYPE 3310 - 6° LEFT SPIRAL FLUTES

Flute long carbide tips brazed to hardened alloy steel bodies.

The left spiral flutes help absorb the impact shock on entering steel while maintaining constant pressure on the work piece. For milling all types of steel, including hardened steel and other tough steel alloys.



TOOL DIAMETER		SHANK DIAM.	CARB. TIP LEN.	OVER ALL LEN.	TYPE 3300 - STRAIGHT FLUTES			TYPE 3308 OR TYPE 3310 - 6° SPIRAL FLUTES			
DEC.	FRACTIONAL				NO. OF FLTS.	EDP NO.	PRICE EACH	NO. OF FLTS.	TYPE 3308 RIGHT EDP NO.	TYPE 3310 LEFT EDP NO.	BOTH TYPES PRICE
.2500	1/4	3/8	1/2	2 1/2	2	330008	\$95.75	2	330808	331008	\$98.55
.3125	5/16	3/8	5/8	2 1/2	2	330010	99.70	2	330810	331010	106.30
.3750	3/8	3/8	5/8	2 1/2	2	330012	106.45	2	330812	331012	112.70
.4375	7/16	3/8	1	2 1/16	2	330014	106.45	2	330814	331014	112.70
.5000	1/2	1/2	1	3 1/4	2	330016	108.90	4	330816	331016	121.40
.5625	9/16	1/2	1	3 3/8	2	330018	120.80	4	330818	331018	130.45
.6250	5/8	1/2	1	3 3/8	2	330020	120.80	4	330820	331020	160.95
.7500	3/4	5/8	1	3 3/8	2	330024	135.60	4	330824	331024	179.35
.8750	7/8	5/8	1 1/4	4	2	330028	160.20	4	330828	331028	216.10
1.0000	1	7/8	1 1/4	4	2	330032	177.05	6	330832	331032	248.40
1.1250	1 1/8	1	1 1/4	4 1/4	2	330036	181.35	6	330836	331036	263.45
1.2500	1 1/4	1	1 1/4	4 1/4	2	330040	202.20	6	330840	331040	318.40
1.5000	1 1/2	1 1/4	1 1/2	4 1/2	2	330048	260.45	6	330848	331048	387.25
1.7500	1 3/4	1 1/4	1 1/2	4 1/2	2	330056	292.10	8	330856	331056	466.35
2.0000	2	1 1/4	1 1/2	4 1/2	2	330064	348.85	8	330864	331064	520.60

TYPE 3350 - 15° RIGHT SPIRAL FLUTES

Flute long carbide tips brazed to hardened alloy steel bodies.
For milling all types of steel. The large capacity of the 15° spiral flutes permits faster chip removal while allowing smoother finishes. The high spiral provides longer tool life.



Also available in 3/4" shank diameter, see pg. 30.

ALL TYPES:

Radial edged tool diameter tolerance: +.002"/-.000".

Shank diameter tolerance: -.0001"/-.0005".

Straight shanks with drive flats.

All End Mills are radial edged; see page 33 for descriptions.

TOOL DIAMETER		SHANK DIAM.	CARB. TIP LEN.	OVER ALL LEN.	TYPE 3350 - 15° RIGHT SPIRAL		
DECIMAL	FRACTIONAL				NO. OF FLTS.	EDP NO.	PRICE EACH
.5000	1/2	3/8	1	3	4	335016	\$152.30
.5000	1/2	1/2	1	3	4	335017	152.30
.5625	9/16	1/2	1	3	4	335018	163.55
.6250	5/8	1/2	1 1/4	3 1/4	4	335020	176.15
.6250	5/8	5/8	1 1/4	3 3/8	4	335021	176.15
.6875	1 1/16	1/2	1 1/4	3 1/4	4	335022	183.50
.6875	1 1/16	5/8	1 1/4	3 3/8	4	335023	183.50
.7500	3/4	1/2	1 1/4	3 1/4	4	335024	195.90
.7500	3/4	5/8	1 1/4	3 3/8	4	335025	195.90
.8125	1 3/16	5/8	1 1/2	3 5/8	4	335026	211.40
.8750	7/8	5/8	1 1/2	3 5/8	4	335028	224.35
.8750	7/8	7/8	1 1/2	3 3/4	4	335029	224.35

TOOL DIAMETER		SHANK DIAM.	CARB. TIP LEN.	OVER ALL LEN.	TYPE 3350 - 15° RIGHT SPIRAL		
DECIMAL	FRACTIONAL				NO. OF FLTS.	EDP NO.	PRICE EACH
.9375	1 5/16	5/8	1 1/2	3 3/4	4	335030	\$332.35
.9375	1 5/16	7/8	1 1/2	3 3/4	4	335031	332.35
1.0000	1	7/8	1 1/2	3 3/4	6	335032	314.70
1.0000	1	1	1 1/2	4	6	335033	314.70
1.1250	1 1/8	1	1 3/4	4 1/4	6	335036	370.35
1.2500	1 1/4	1	1 3/4	4 1/4	6	335040	424.50
1.3750	1 3/8	1	1 3/4	4 1/4	6	335044	495.95
1.5000	1 1/2	1 1/4	2	4 1/2	6	335048	488.50
1.6250	1 5/8	1 1/4	2	4 1/2	8	335052	651.20
1.7500	1 3/4	1 1/4	2	4 1/2	8	335056	694.55
1.8750	1 7/8	1 1/4	2	4 1/2	8	335060	742.75
2.0000	2	1 1/4	2	4 1/2	8	335064	784.45

CARBIDE TIPPED END MILLS - FOR NON-FERROUS & CAST IRON

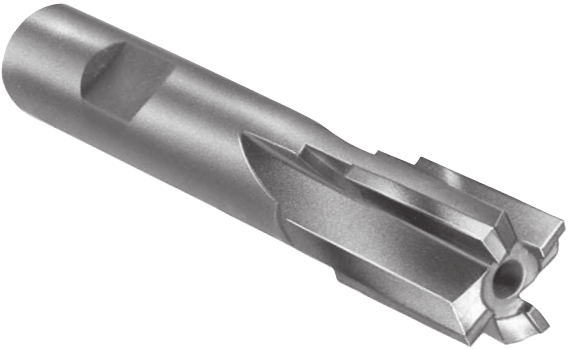
TYPE 3302 - TWO STRAIGHT FLUTES - RADIAL EDGED

Flute long carbide tips brazed to hardened alloy steel bodies.
Large flute capacity for easier chip removal.



TYPE 3304 - FOUR/SIX STRAIGHT FLUTES - RADIAL EDGED

Flute long carbide tips brazed to hardened alloy steel bodies.
Best when machine horsepower allows a higher capacity end mill.



TYPE 3305 - FOUR STRAIGHT FLUTES - UPSHARP

Flute long carbide tips brazed to hardened alloy steel bodies.
Reduced horsepower requirements in a high capacity end mill.



TYPE 3306 - 6° RIGHT SPIRAL FLUTES - RADIAL EDGED

Flute long carbide tips brazed to hardened alloy steel bodies.
Spiral flutes help remove chips, permitting faster speeds and heavier feeds. Produces better finish.

TYPE 3307 - 6° RIGHT SPIRAL FLUTES - UPSHARP

Flute long carbide tips brazed to hardened alloy steel bodies.
Spiral flutes help remove chips which permits heavier feeds and faster speeds. Ideal for zinc and aluminum.

ALL TYPES:

Radial edged tool diameter tolerance: +.002"/-.000".

Upsharp tool diameter tolerance: +.005"/-.000".

Shank diameter tolerance: -.0001"/-.0005".

Straight shanks with drive flats.

For radial edged and upsharp descriptions, see page 33.

TOOL DIAMETER		SHANK DIAM.	CARB. TIP LEN.	OVER ALL LEN.	TYPE 3302 - STR. FLTS.			TYPE 3304 - FOUR/SIX STR. FLTS.			TYPE 3305 - FOUR STR. FLTS.			TYPE 3306 - 6° RIGHT SPIRAL			TYPE 3307 - 6° RIGHT SPIRAL		
DECIMAL	FRACTION				NO. OF FLTS.	EDP NO.	PRICE EACH	NO. OF FLTS.	EDP NO.	PRICE EACH	NO. OF FLTS.	EDP NO.	PRICE EACH	NO. OF FLTS.	EDP NO.	PRICE EACH	NO. OF FLTS.	EDP NO.	PRICE EACH
.2500	1/4	3/8	1/2	2 1/2	2	330208	\$83.30	4	330408	\$84.10	4	330508	\$84.10	2	330608	\$85.15	2	330708	\$90.30
.3125	5/16	3/8	5/8	2 1/2	2	330210	86.45	4	330410	89.85	-	-	-	2	330610	88.20	-	-	-
.3750	3/8	3/8	5/8	2 1/2	2	330212	92.75	4	330412	94.65	-	-	-	2	330612	94.45	-	-	-
.4375	7/16	3/8	1	2 1/16	2	330214	92.75	4	330414	94.65	4	330514	91.05	2	330614	94.45	2	330714	100.10
.5000	1/2	1/2	1	3 1/4	2	330216	95.05	4	330416	96.90	4	330516	96.75	2	330616	96.95	2	330716	102.65
.5625	9/16	1/2	1	3 3/4	2	330218	105.10	4	330418	108.75	4	330518	108.55	2	330618	107.40	2	330718	113.50
.6250	5/8	1/2	1	3 3/8	2	330220	105.10	4	330420	113.90	4	330520	113.75	4	330620	111.55	4	330720	118.05
.6875	11/16	5/8	1	3 3/8	2	330222	113.75	4	330422	125.40	4	330522	125.10	-	-	-	-	-	-
.7500	3/4	5/8	1	3 5/8	2	330224	118.05	4	330424	117.25	4	330524	129.90	4	330624	127.40	4	330724	134.75
.8125	13/16	5/8	1	3 5/8	2	330226	142.65	4	330426	138.50	4	330526	148.70	-	-	-	-	-	-
.8750	7/8	5/8	1 1/4	4	2	330228	143.55	4	330428	138.50	4	330528	153.75	4	330628	170.30	4	330728	180.45
.9375	15/16	7/8	1 1/4	4	2	330230	153.75	4	330430	153.85	4	330530	163.55	-	-	-	-	-	-
1.0000	1	7/8	1 1/4	4	2	330232	154.15	4	330432	160.05	4	330532	177.45	4	330632	196.75	4	330732	208.40
1.1250	1 1/8	1	1 1/4	4 1/4	2	330236	158.20	4	330436	181.50	4	330536	201.05	4	330636	223.15	-	-	-
1.2500	1 1/4	1	1 1/4	4 1/4	2	330240	190.80	4	330440	204.10	4	330540	226.10	4	330640	250.80	4	330740	265.15
1.5000	1 1/2	1 1/4	1 1/2	4 1/2	2	330248	236.25	4	330448	263.15	4	330548	280.10	4	330648	310.45	4	330748	316.65
1.7500	1 3/4	1 1/4	1 1/2	4 1/2	2	330256	280.10	6	330456	339.20	-	-	-	6	330656	400.75	-	-	-
2.0000	2	1 1/4	1 1/2	4 1/2	2	330264	312.45	6	330464	390.75	-	-	-	6	330664	461.45	6	330764	470.25

CARBIDE TIPPED END MILLS - FOR NON-FERROUS & CAST IRON

TYPE 3320 - 15° RIGHT SPIRAL FLUTES - RADIAL EDGED

Flute long carbide tips brazed to hardened alloy steel bodies.

For milling primarily cast iron and malleable iron. However, they can be used on other materials *except steel*. The large capacity of the 15° spiral flutes permits faster chip removal while allowing smoother finishes. Also the high spiral provides longer tool life. More flutes than Type 3375 for use where less feed rate per flute is required but table feed is maintained for same productivity.

Also available in 3/4" shank diameter, see pg. 30.



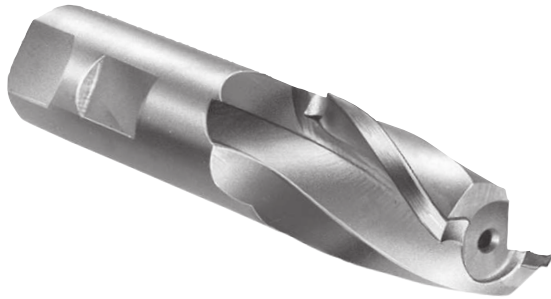
TYPE 3375 - 15° RIGHT SPIRAL FLUTES - RADIAL EDGED

Same as Type 3320, except less flutes.

TYPE 3325 - 25° RIGHT SPIRAL FLUTES - RADIAL EDGED

Flute long carbide tips brazed to hardened alloy steel bodies.

For milling all types of non-ferrous metals and non-metals. The large capacity of the 25° spiral flutes permits faster chip removal while allowing smoother finishes. Also the high spiral provides longer tool life.



TYPE 3327 - 25° RIGHT SPIRAL FLUTES - UPSHARP

Flute long carbide tips brazed to hardened alloy steel bodies.

For high speed milling of aluminum, plastics, and other soft non-ferrous materials.

UPSHARP END MILLS:

These tools are manufactured with sharp cutting edges on the periphery and permit maximum metal removal with less horsepower.

RADIAL EDGED END MILLS:

These tools are manufactured with a precise .002" to .003" radial edge on the periphery, thus eliminating the need to hand hone the feathered edge. This small margin results in a stronger cutting edge and minimizes edge chipping for longer tool life.

ALL TYPES:

Radial edged tool diameter tolerance: +.002"/-.000".

Upsharp tool diameter tolerance: +.005"/-.000".

Shank diameter tolerance: -.0001"/-.0005".

Straight shanks with drive flats.

TOOL DIAMETER		SHANK DIAM.	CARB. TIP LEN.	OVER ALL LEN.	TYPE 3320 - 15° RIGHT SPIRAL			TYPE 3375 - 15° RIGHT SPIRAL			TYPE 3327 OR TYPE 3325 - 25° RIGHT SPIRAL			
DECIMAL	FRACTION				NO. OF FLUTES	EDP NO.	PRICE EACH	NO. OF FLUTES	EDP NO.	PRICE EACH	NO. OF FLUTES	TYPE 3327 EDP NO.	TYPE 3325 EDP NO.	PRICE EACH
.5000	1/2	3/8	1	3	-	-	-	2	337516	\$140.35	2	-	332516	\$152.30
.5000	1/2	1/2	1	3	4	332017	\$152.30	2	337517	140.35	2	-	332517	152.30
.5625	9/16	1/2	1	3	-	-	-	2	337518	150.90	2	-	332518	163.55
.6250	5/8	1/2	1 1/4	3 1/4	-	-	-	2	337520	162.20	2	-	332520	176.15
.6250	5/8	5/8	1 1/4	3 3/8	4	332021	176.15	2	337521	162.20	2	332721	332521	176.15
.6875	11/16	1/2	1 1/4	3 1/4	-	-	-	2	337522	169.10	2	-	332522	183.50
.6875	11/16	5/8	1 1/4	3 3/8	4	332023	183.50	2	337523	169.10	2	-	332523	183.50
.7500	3/4	1/2	1 1/4	3 1/4	-	-	-	2	337524	180.50	2	332724	332524	195.90
.7500	3/4	5/8	1 1/4	3 3/8	4	332025	195.90	2	337525	180.50	2	332725	332525	195.90
.8125	13/16	5/8	1 1/2	3 5/8	4	332026	211.40	2	337526	194.85	2	332726	332526	211.40
.8750	7/8	5/8	1 1/2	3 5/8	-	-	-	2	337528	206.90	2	-	332528	224.35
.8750	7/8	7/8	1 1/2	3 3/4	4	332029	224.35	2	337529	206.90	2	-	332529	224.35
.9375	15/16	5/8	1 1/2	3 3/4	-	-	-	3	337530	306.20	2	-	332530	253.80
.9375	15/16	7/8	1 1/2	3 3/4	-	-	-	3	337531	306.20	2	-	332531	253.80
1.0000	1	7/8	1 1/2	3 3/4	-	-	-	3	337532	289.90	2	332732	332532	259.10
1.0000	1	1	1 1/2	4	6	332033	314.70	3	337533	289.90	2	332733	332533	259.10
1.1250	1 1/8	1	1 3/4	4 1/4	6	332036	370.35	3	337536	341.40	2	-	332536	283.70
1.2500	1 1/4	1	1 3/4	4 1/4	6	332040	424.50	4	337540	391.20	3	332740	332540	376.25
1.3750	1 3/8	1	1 3/4	4 1/4	6	332044	495.95	4	337544	456.85	3	332744	332544	407.95
1.5000	1 1/2	1 1/4	2	4 1/2	6	332048	488.50	4	337548	450.15	3	332748	332548	455.60
1.6250	1 5/8	1 1/4	2	4 1/2	-	-	-	4	337552	550.60	3	-	332552	539.30
1.7500	1 3/4	1 1/4	2	4 1/2	8	332056	614.20	4	337556	587.05	3	-	332556	578.65
1.8750	1 7/8	1 1/4	2	4 1/2	-	-	-	4	337560	628.00	3	-	332560	622.85
2.0000	2	1 1/4	2	4 1/2	8	332064	694.00	4	337564	663.35	3	332764	332564	665.85

CARBIDE TIPPED PORT CONTOUR CUTTERS

ISO 6149-1 METRIC PORTS - WITHOUT I.D. GROOVE

TYPE 3786 - STRAIGHT SHANK - FOR NON-FERROUS & CAST IRON

TYPE 3787 - STRAIGHT SHANK - FOR STEEL

Carbide tips brazed to one piece heat treated steel bodies.

In a single operation, a port contour cutter can produce the form and finish required on internal straight thread o-ring ports. All tolerances are within military specifications. All are manufactured with negative radial rake and 5° axial rake.



THREAD SIZE	DIMENSIONS									N-F/CI TYPE 3786 EDP NO.	STEEL TYPE 3787 EDP NO.	BOTH TYPES PRICE
	DIAMETER			TAPER SHANK NO.	SEALING SEAT ANGLE	LENGTH						
	REAMER	SPOTFACE	SHANK			SHANK	REAMER	HEAD	OVERALL			
M 8X1	.2770	.6690	.5000	3	12°	2	.4530	1 1/8	3 1/8	3786080	3787080	\$500.85
M 10X1	.3560	.7870	.5000	3	12°	2	.4530	1 1/4	3 1/4	3786100	3787100	500.85
M 12X1.5	.4150	.9060	.5000	3	15°	2	.5510	1 1/4	3 1/4	3786120	3787120	524.60
M 14X1.5	.4930	.9840	.5000	3	15°	2	.5510	1 1/4	3 1/4	3786140	3787140	524.60
M 16X1.5	.5720	1.1020	.5000	3	15°	2	.6100	1 1/4	3 1/4	3786160	3787160	577.65
M 18X1.5	.6510	1.1810	.7500	3	15°	2	.6690	1 3/8	3 3/8	3786180	3787180	577.65
M 20X1.5	.7300	1.2600	.7500	3	15°	2	.6890	1 3/8	3 3/8	3786200	3787200	599.95
M 22X1.5	.8080	1.3390	.7500	3	15°	2	.7090	1 5/8	3 5/8	3786220	3787220	622.15
M 27X2	.9850	1.5750	.7500	3	15°	2 1/4	.8660	1 7/8	4 1/8	3786270	3787270	672.55
M 33X2	1.2210	1.9290	.7500	3	15°	2 1/4	.8660	1 7/8	4 1/8	3786330	3787330	773.55
M 42X2	1.5760	2.3620	1.0000	3	15°	2 1/4	.8860	1 7/8	4 1/8	3786420	3787420	845.30
M 48X2	1.8120	2.5890	1.0000	4	15°	2 1/4	.9840	2	4 1/4	3786480	3787480	893.65
M 60X2	2.2840	2.9920	1.0000	4	15°	2 1/4	1.0830	2	4 1/4	3786600	3787600	1010.85

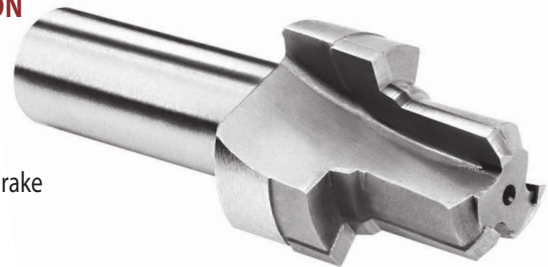
S.A.E. PORTS - MS16142 - J514F - J1926

TYPE 3780 - STRAIGHT SHANK - FOR NON-FERROUS & CAST IRON

TYPE 3781 - STRAIGHT SHANK - FOR STEEL

Carbide tips brazed to one piece heat treated steel bodies.

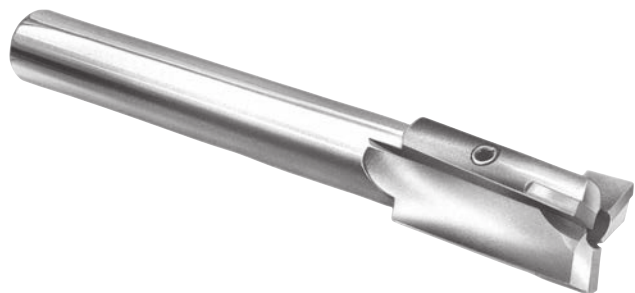
In a single operation, a port contour cutter can produce the form and finish required on internal straight thread o-ring ports. All tolerances are within military specifications. All are manufactured with negative radial rake and 5° axial rake.



TUBE			DIMENSIONS							N-F/CI TYPE 3780 EDP NO.	STEEL TYPE 3781 EDP NO.	BOTH TYPES PRICE	
NO.	SIZE	THREAD SIZE	DIAMETER			SEALING SEAT ANGLE	LENGTH						
			REAMER	SPOTFACE	SHANK		SHANK	REAMER	HEAD				OVERALL
2	1/8	5/16-24	.2720	.6820	.5000	12°	2	.4730	1 1/8	3 1/8	378002	378102	\$465.90
3	3/16	3/8-24	.3350	.7600	.5000	12°	2	.4730	1 1/4	3 1/4	378003	378103	465.90
4	1/4	7/16-20	.3890	.8380	.5000	12°	2	.5520	1 1/4	3 1/4	378004	378104	465.90
5	5/16	1/2-20	.4520	.9160	.5000	12°	2	.5520	1 1/4	3 1/4	378005	378105	480.50
6	3/8	9/16-18	.5090	.9790	.5000	12°	2	.6140	1 1/4	3 1/4	378006	378106	480.50
8	1/2	3/4-16	.6890	1.1980	.7500	15°	2	.6930	1 3/8	3 3/8	378008	378108	525.90
10	5/8	7/8-14	.8060	1.3540	.7500	15°	2	.7860	1 5/8	3 5/8	378010	378110	594.80
12	3/4	1 1/16-12	.9810	1.6350	.7500	15°	2 1/4	.9110	1 7/8	4 1/8	378012	378112	641.65
14	7/8	1 3/16-12	1.1060	1.7750	.7500	15°	2 1/4	.9110	1 7/8	4 1/8	378014	378114	652.00
16	1	1 5/16-12	1.2310	1.9200	.7500	15°	2 1/4	.9110	1 7/8	4 1/8	378016	378116	701.75
20	1 1/4	1 5/8-12	1.5440	2.2800	1.0000	15°	2 1/4	.9110	2	4 1/4	378020	378120	773.10
24	1 1/2	1 7/8-12	1.7940	2.5700	1.0000	15°	2 1/4	.9110	2	4 1/4	378024	378124	950.75
32	2	2 1/2-12	2.4190	3.4900	1.0000	15°	2 1/4	.9110	2 1/4	4 1/2	378032	378132	1241.65

LEXINGTON CUTTER, INC. • sales@lexingtoncutter.com • Phone 800-882-2627 • Fax 800-882-3637

FEEDS & SPEEDS CHART FOR COUNTERBORES



Feeds & speeds are a starting recommendation only. Factors such as machine, fixture and tooling rigidity, horsepower available, coolant application and others will affect the performance significantly. Please read machine operators instructions and use all safety shields and glasses before performing these operations.

$$\text{RPM} = \text{SFPM} \times 3.82 / \text{Cutter Diameter}$$

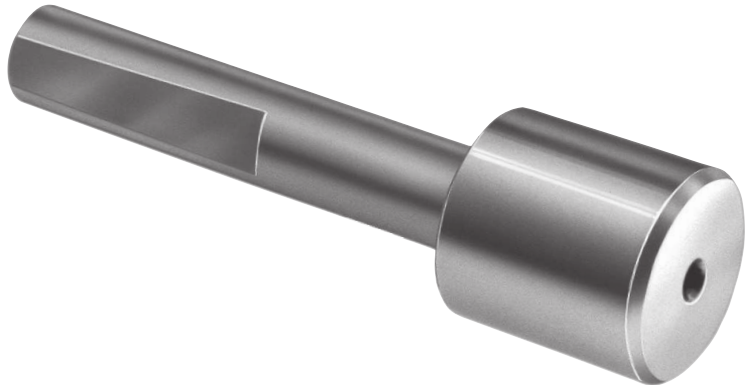
CLASSIFICATION	MATERIAL	COUNTERBORING		FEED RATE (INCHES PER REVOLUTION) FINISHED HOLE DIAMETER IN INCHES					
		BRINELL	SFPM	¼	½	¾	1	1 ½	2
NON-FERROUS (SOFT)	ALUMINUM ALLOY - WROUGHT	30-150*	750-900	.006	.006	.007	.007	.009	.010
	MAGNESIUM ALLOY	50-90*	875-1000	.006	.006	.007	.007	.009	.010
	LEAD	10-20*	875-1000	.006	.006	.007	.007	.009	.010
	NON-METAL AND PLASTIC	-	700-1200	.006	.006	.007	.007	.009	.010
	ZINC ALLOY - DIE CAST	80-100	700-850	.005	.005	.006	.006	.007	.009
NON-FERROUS (HARD)	ALUMINUM BRONZE	40-175	700-850	.006	.006	.007	.007	.009	.010
	BRASS ALLOY - LEADED AND FREE CUTTING	10-100Rb	850-1000	.006	.006	.007	.007	.009	.010
	CHROMIUM - NICKEL	10-100Rb	75-85	.003	.003	.003	.003	.004	.005
	COPPER ALLOY - TOUGH	40-200*	275-350	.005	.005	.006	.006	.007	.009
CAST IRON	DUCTILE CAST IRON - AUSTENITIC	120-275	85-110	.002	.002	.002	.002	.003	.004
	DUCTILE CAST IRON - FERRITIC	140-270	200-250	.006	.006	.007	.007	.009	.010
	DUCTILE CAST IRON - MARTENSITIC	270-400	75-95	.002	.002	.002	.002	.003	.004
	GRAY - PEARLITIC	220-320	125-200	.004	.004	.004	.005	.006	.007
	GRAY - FERRITIC	110-240	200-250	.004	.004	.004	.005	.006	.007
	MALLEABLE CAST IRON - MARTENSITIC	200-320	60-85	.004	.004	.004	.005	.006	.007
LOW CARBON STEELS	LOW AND MEDIUM CARBON STEEL - FREE MACHINING	100-250	200-250	.006	.006	.007	.007	.009	.010
	LOW AND MEDIUM CARBON STEEL - WROUGHT	100-375	150-200	.006	.006	.007	.007	.009	.010
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACHINING	100-275	145-185	.004	.004	.004	.005	.006	.007
	LOW AND MEDIUM CARBON ALLOY STEEL	85-375	130-165	.004	.004	.004	.005	.006	.007
	STAINLESS STEEL - 400 SERIES	135-325	150-200	.003	.003	.003	.003	.004	.005
	STAINLESS STEEL - 400 SERIES FREE MACHINING	135-275	155-205	.003	.003	.003	.003	.004	.005
HIGH STRENGTH STEELS	HIGH STRENGTH STEEL - WROUGHT & TOOL STEEL	175-400	90-135	.002	.002	.002	.002	.003	.003
HIGH TEMP. ALLOYS	HIGH TEMP ALLOYS NICKEL & IRON BASE ALLOY	140-300	40-65	.002	.002	.002	.002	.003	.003
	STAINLESS STEEL - 300 SERIES	135-375	150-300	.003	.003	.003	.003	.004	.005
	STAINLESS STEEL - PH SERIES	150-440	115-175	.003	.003	.003	.003	.004	.005
	TITANIUM ALLOY	110-380	125-175	.002	.002	.002	.002	.003	.003

INTERCHANGEABLE COUNTERBORE PILOTS

TYPE 3500 - CARBON STEEL - SHORT SHANK

For use with our carbide tipped counterbores (pages 38-47).

The shank diameter must be the same as the pilot hole diameter in the counterbore. The pilot head diameter is always larger than the shank diameter and is determined by part to be machined.



PILOT HEAD DIAMETER		TOLERANCE
1/8" THRU 1/4"		-.001"/-.002"
OVER 1/4" THRU 7/8"		-.003"/-.004"
OVER 7/8" THRU 1 1/4"		-.005"/-.006"
OVER 1 1/4"		-.006"/-.007"

Shank diameter tolerance: +.0000"/-.0005".

PILOT HEAD DIAMETER		SHANK DIAMETER									ALL TYPES PRICE	PRICE EACH - PILOT HEAD DIAMETER FINISHED TO DECIMAL SIZE					
DEC.	FRACTION	.0938 EDP NO.	.1250 EDP NO.	.1562 EDP NO.	.1875 EDP NO.	.2500 EDP NO.	.3125 EDP NO.	.3750 EDP NO.	.4375 EDP NO.	.5000 EDP NO.		1 PC.	2 PC.	3 PC.	4 PC.	5-7	8+
.1250	1/8	350104	-	-	-	-	-	-	-	-	\$33.80	\$134.35	\$84.10	\$67.40	\$59.15	\$50.65	\$43.65
.1562	5/32	350105	350205	-	-	-	-	-	-	-	27.45	127.90	77.75	60.95	52.50	44.30	37.25
.1875	3/16	350106	350206	350306	-	-	-	-	-	-	28.00	128.50	78.25	61.50	53.20	44.70	37.75
.2188	7/32	350107	350207	350307	350407	-	-	-	-	-	31.70	132.25	81.85	65.10	57.00	48.55	41.55
.2500	1/4	350108	350208	350308	350408	-	-	-	-	-	31.70	132.25	81.85	65.10	57.00	48.55	41.55
.2812	9/32	350109	350209	350309	350409	350509	-	-	-	-	33.80	134.35	84.10	67.40	59.15	50.65	43.65
.3125	5/16	350110	350210	350310	350410	350510	-	-	-	-	33.80	134.35	84.10	67.40	59.15	50.65	43.65
.3438	11/32	350111	350211	350311	350411	350511	350611	-	-	-	33.80	134.35	84.10	67.40	59.15	50.65	43.65
.3750	3/8	-	350212	350312	350412	350512	350612	-	-	-	37.25	137.80	87.60	70.75	62.40	54.00	47.15
.4062	13/32	-	350213	350313	350413	350513	350613	-	-	-	37.25	137.80	87.60	70.75	62.40	54.00	47.15
.4375	7/16	-	350214	350314	350414	350514	350614	350714	-	-	38.15	138.60	88.40	71.65	63.25	55.00	48.00
.4688	15/32	-	350215	-	350415	350515	350615	-	-	-	38.15	138.60	88.40	71.65	63.25	55.00	48.00
.5000	1/2	-	350216	-	350416	350516	350616	350716	350816	-	43.65	144.25	93.95	77.10	69.05	60.45	53.55
.5312	17/32	-	350217	-	350417	350517	350617	-	350817	-	50.90	151.40	101.20	84.50	76.15	67.70	60.85
.5625	9/16	-	350218	-	350418	350518	350618	350718	350818	350918	57.15	157.70	107.45	90.65	82.50	74.00	67.05
.5938	19/32	-	350219	-	-	350519	350619	-	350819	350919	62.80	163.25	113.00	96.30	87.85	79.45	72.60
.6250	5/8	-	350220	-	350420	350520	350620	350720	350820	350920	62.80	163.25	113.00	96.30	87.85	79.45	72.60
.6562	21/32	-	-	-	350421	350521	350621	-	350821	-	64.25	164.80	114.45	97.75	89.50	81.05	74.05
.6875	11/16	-	-	-	350422	350522	350622	350722	350822	350922	64.25	164.80	114.45	97.75	89.50	81.05	74.05
.7188	23/32	-	-	-	-	350523	350623	-	350823	350923	72.75	173.25	123.00	106.25	97.95	89.50	82.65
.7500	3/4	-	-	-	350424	350524	350624	350724	350824	350924	72.75	173.25	123.00	106.25	97.95	89.50	82.65
.7812	25/32	-	-	-	-	350525	350625	-	350825	350925	81.80	182.35	132.10	115.30	107.25	98.60	91.70
.8125	13/16	-	-	-	350426	350526	350626	350726	350826	350926	81.80	182.35	132.10	115.30	107.25	98.60	91.70
.8438	27/32	-	-	-	-	350527	-	-	-	-	90.50	191.05	140.80	124.05	115.60	107.30	100.30
.8750	7/8	-	-	-	350428	350528	350628	350728	350828	350928	90.50	191.05	140.80	124.05	115.60	107.30	100.30
.9375	15/16	-	-	-	350430	350530	350630	350730	350830	350930	95.45	195.95	145.70	129.05	120.65	112.20	105.35
1.0000	1	-	-	-	350432	350532	350632	350732	350832	350932	98.75	199.25	149.00	132.25	124.05	115.50	108.70
1.0625	1 1/16	-	-	-	-	-	350634	350734	350834	350934	102.40	202.85	152.55	135.80	127.45	119.20	112.20
1.1250	1 1/8	-	-	-	-	-	350636	350736	350836	350936	123.40	223.95	173.65	156.80	148.70	140.05	133.30
1.1875	1 3/16	-	-	-	-	-	350638	350738	350838	350938	127.20	227.55	177.35	160.70	152.40	143.95	137.00
1.2500	1 1/4	-	-	-	-	-	350640	350740	350840	350940	134.05	234.60	184.35	167.50	159.45	150.80	143.95
1.3125	1 5/16	-	-	-	-	-	-	350742	350842	350942	141.10	241.60	191.45	174.70	166.40	157.95	150.95
1.3750	1 3/8	-	-	-	-	-	350644	350744	350844	350944	154.10	254.80	204.55	187.80	179.45	171.00	164.05
1.4375	1 7/16	-	-	-	-	-	-	350746	350846	350946	156.00	256.45	206.15	189.35	181.20	172.60	165.85
1.5000	1 1/2	-	-	-	-	-	-	-	350848	350948	157.95	258.55	208.35	191.50	183.05	174.75	167.85
1.5625	1 9/16	-	-	-	-	-	-	-	350850	350950	159.80	260.60	210.35	193.50	185.15	176.80	169.85
1.6250	1 5/8	-	-	-	-	-	-	-	-	350952	161.55	262.05	211.80	194.95	186.75	178.25	171.45
1.6875	1 11/16	-	-	-	-	-	-	-	-	350954	163.75	264.10	213.90	197.05	188.85	180.30	173.55
1.7500	1 3/4	-	-	-	-	-	-	-	350856	350956	166.25	266.60	216.30	199.55	191.45	182.80	175.95
1.8750	1 7/8	-	-	-	-	-	-	-	-	350960	200.10	301.00	250.70	233.85	225.55	217.10	210.35
2.0000	2	-	-	-	-	-	-	-	-	350964	200.10	301.00	250.70	233.85	225.55	217.10	210.35

CARBIDE TIPPED CAPSCREW COUNTERBORES

TYPE 3513 - STRAIGHT SHANK - FOR NON-FERROUS & CAST IRON

TYPE 3515 - STRAIGHT SHANK - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies. Right spiral smooth flutes. Integral pilot type.

Tools are designed with appropriate carbide grade and tool geometry for material being machined. The pilot is manufactured in nominal screw body diameters as well as 1/64" and 1/32" over size diameters.

Decimal sizes available upon request.



TOOL DIAMETER		PILOT DIAMETER	PILOT LENGTH	SHANK DIAMETER	OVERALL LENGTH	TYPE 3513 - NON-FERR/CI		PRICE EACH	TYPE 3515 - STEEL		PRICE EACH
DECIMAL	SCREW SIZE					NO. OF FLUTES	EDP NO.		NO. OF FLUTES	EDP NO.	
.3820	1/4	.2500	.3125	5/16	5 5/8	3	35132500	\$125.80	3	35152500	\$138.35
.3980	1/4	.2650	.3125	5/16	5 5/8	3	35132650	139.75	3	35152650	153.75
.4140	1/4	.2810	.3125	5/16	5 5/8	3	35132810	139.75	3	35152810	153.75
.4750	5/16	.3125	.3750	3/8	6 1/8	3	35133125	140.65	3	35153125	154.85
.4910	5/16	.3280	.3750	3/8	6 1/8	3	35133280	140.65	3	35153280	154.85
.5070	5/16	.3430	.3750	3/8	6 1/8	3	35133430	140.65	3	35153430	154.85
.5720	3/8	.3750	.5000	1/2	6 1/2	3	35133750	158.60	3	35153750	174.55
.5880	3/8	.3900	.5000	1/2	6 1/2	3	35133900	158.60	3	35153900	174.55
.6040	3/8	.4060	.5000	1/2	6 1/2	3	35134060	158.60	3	35154060	174.55
.6630	7/16	.4375	.5000	1/2	7	3	35134375	153.20	3	35154375	168.55
.6790	7/16	.4530	.5000	1/2	7	3	35134530	153.20	3	35154530	168.55
.6950	7/16	.4680	.5000	1/2	7	3	35134680	153.20	3	35154680	168.55
.7570	1/2	.5000	.5000	1/2	7 1/2	3	35135000	173.75	3	35155000	191.25
.7730	1/2	.5150	.5000	1/2	7 1/2	3	35135150	173.75	3	35155150	191.25
.7890	1/2	.5310	.5000	1/2	7 1/2	3	35135310	173.75	3	35155310	191.25
.8510	9/16	.5625	.5625	5/8	7 5/8	3	35135625	167.95	3	35155625	184.80
.8670	9/16	.5780	.5625	5/8	7 5/8	3	35135780	167.95	3	35155780	184.80
.8830	9/16	.5930	.5625	5/8	7 5/8	3	35135930	167.95	3	35155930	184.80
.9450	5/8	.6250	.6250	5/8	7 5/8	3	35136250	191.45	3	35156250	210.65
.9610	5/8	.6400	.6250	5/8	7 5/8	3	35136400	191.45	3	35156400	210.65
.9770	5/8	.6560	.6250	5/8	7 5/8	3	35136560	191.45	3	35156560	210.65
1.1330	3/4	.7500	.7500	3/4	7 3/4	3	35137500	188.70	3	35157500	207.65
1.1490	3/4	.7650	.7500	3/4	7 3/4	3	35137650	188.70	3	35157650	207.65
1.1650	3/4	.7810	.7500	3/4	7 3/4	3	35137810	188.70	3	35157810	207.65
1.3220	7/8	.8750	.8750	7/8	8 1/8	4	35138750	209.80	4	35158750	230.95
1.3380	7/8	.8910	.8750	7/8	8 1/8	4	35138910	209.80	4	35158910	230.95
1.3540	7/8	.9060	.8750	7/8	8 1/8	4	35139060	209.80	4	35159060	230.95
1.5100	1	1.0000	1.0000	1	8 1/2	4	35130000	240.20	4	35150000	264.30
1.5260	1	1.0150	1.0000	1	8 1/2	4	35130156	240.20	4	35150156	264.30
1.5420	1	1.0310	1.0000	1	8 1/2	4	35130313	240.20	4	35150313	264.30

TYPE 3513 - STRAIGHT SHANK - FOR NON-FERROUS & CAST IRON - METRIC

TYPE 3515 - STRAIGHT SHANK - FOR STEEL - METRIC

Same as above except metric sizes.

TOOL DIAMETER		PILOT DIAMETER	PILOT LENGTH	SHANK DIAMETER	OVERALL LENGTH	TYPE 3513 - NON-FERR/CI		PRICE EACH	TYPE 3515 - STEEL		PRICE EACH
SCREW SIZE mm	DECIMAL					NO. OF FLUTES	EDP NO.		NO. OF FLUTES	EDP NO.	
5	.3543	5.5	3/32	5/16	5 5/8	3	3513055	\$139.35	3	3515055	\$153.20
6	.4134	6.5	5/16	5/16	5 5/8	3	3513065	147.10	3	3515065	161.80
8	.5315	8.5	3/8	1/2	6 1/2	3	3513085	174.70	3	3515085	192.10
10	.6496	10.5	1/2	1/2	7	3	3513105	190.00	3	3515105	209.00
12	.7283	12.5	1/2	1/2	7 1/2	3	3513125	178.30	3	3515125	196.00
14	.8465	14.5	5/16	5/8	7 5/8	3	3513145	207.85	3	3515145	228.55
16	.9646	16.5	3/8	5/8	7 5/8	3	3513165	217.25	3	3515165	238.90
20	1.2008	20.5	3/4	7/8	8	3	3513205	201.45	3	3515205	221.50

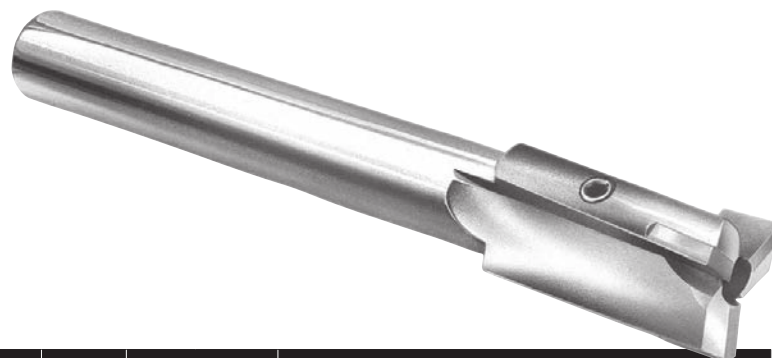
CARBIDE TIPPED COUNTERBORES FOR NON-FERROUS & CAST IRON

TYPE 3512 - STRAIGHT SHANK - FOUR FLUTES

TYPE 3514 - STRAIGHT SHANK - THREE/FOUR FLUTES

Carbide tips brazed to hardened alloy steel bodies. Right spiral smooth flutes. Interchangeable pilot type.

Tools are designed with appropriate carbide grade and tool geometry for machining non-ferrous, cast iron and non-metals.



Tool diameter tolerance: $\pm .001$ " / $-.000$ ".
Shank diameter tolerance: $\pm .0000$ " / $-.0005$ ".

TOOL DIAMETER		MIN. CUT DIAM.	PILOT HOLE DIAM.	SHANK DIAM.	OVER ALL LEN.	TYPE 3512		TYPE 3514		BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL					NO. OF FLTS.	EDP NO.	NO. OF FLTS.	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	.114	3/32	15/64	3 13/16	-	-	3	351408	\$108.15	.2381 - .2530	\$169.25	\$138.75	\$128.60	\$123.50	\$118.25	\$114.15
.2812	9/32	.114	3/32	17/64	3 13/16	-	-	3	351409	132.20	.2531 - .2840	193.15	162.80	152.60	147.55	142.40	138.20
.3125	5/16	.114	3/32	19/64	3 13/16	-	-	3	351410	112.85	.2841 - .3150	170.10	141.55	132.00	127.25	122.40	118.40
.3438	11/32	.114	3/32	5/16	3 13/16	-	-	3	351411	142.90	.3151 - .3470	200.05	171.40	161.80	157.15	152.30	148.25
.3750	3/8	.182	5/32	5/16	4 1/16	-	-	3	351412	119.65	.3471 - .3780	172.55	146.10	137.30	132.90	128.45	124.85
.4062	13/32	.182	5/32	3/8	4 1/16	-	-	3	351413	134.90	.3781 - .4090	187.70	161.40	152.55	148.15	143.70	140.10
.4375	7/16	.182	5/32	3/8	4 1/16	-	-	3	351414	122.80	.4091 - .4410	175.60	149.15	140.35	136.15	131.55	127.95
.4688	15/32	.228	3/16	7/16	4 5/16	-	-	3	351415	149.85	.4411 - .4720	202.75	176.30	167.55	163.25	158.60	155.05
.5000	1/2	.228	3/16	7/16	4 5/16	4	351216	3	351416	136.30	.4721 - .5030	189.10	162.55	153.90	149.45	145.00	141.50
.5312	17/32	.228	3/16	1/2	4 5/16	4	351217	3	351417	154.20	.5031 - .5340	207.05	180.75	171.95	167.55	163.05	159.35
.5625	9/16	.228	3/16	1/2	4 5/16	4	351218	3	351418	140.25	.5341 - .5660	193.15	166.65	157.90	153.45	149.10	145.35
.5938	19/32	.228	3/16	1/2	5 1/8	4	351219	3	351419	155.90	.5661 - .5970	208.65	182.25	173.55	169.10	164.55	160.95
.6250	5/8	.228	3/16	1/2	5 1/8	4	351220	3	351420	141.65	.5971 - .6280	194.45	167.95	159.20	154.90	150.40	146.80
.6562	21/32	.228	3/16	1/2	5 1/8	4	351221	3	351421	164.95	.6281 - .6590	217.70	191.40	182.50	178.15	173.75	170.10
.6875	11/16	.228	3/16	1/2	5 1/8	4	351222	3	351422	150.00	.6591 - .6910	202.90	176.35	167.65	163.35	158.90	155.15
.7188	23/32	.290	1/4	1/2	5 3/8	4	351223	3	351423	168.85	.6911 - .7220	221.50	195.25	186.40	182.20	177.60	174.00
.7500	3/4	.290	1/4	1/2	5 3/8	4	351224	3	351424	153.40	.7221 - .7530	206.25	179.80	171.00	166.65	162.25	158.50
.7812	25/32	.290	1/4	5/8	5 3/8	4	351225	3	351425	172.45	.7531 - .7840	225.20	198.75	190.00	185.65	181.10	177.50
.8125	13/16	.290	1/4	5/8	5 3/8	4	351226	3	351426	156.60	.7841 - .8160	209.40	182.95	174.25	169.80	165.50	161.80
.8438	27/32	.290	1/4	3/4	5 3/8	4	351227	3	351427	182.60	.8161 - .8470	235.45	208.95	200.30	195.85	191.45	187.70
.8750	7/8	.290	1/4	3/4	5 3/8	4	351228	3	351428	166.00	.8471 - .8780	218.90	192.45	183.75	179.30	174.85	171.15
.9062	29/32	.290	1/4	3/4	6 1/8	4	351229	3	351429	186.25	.8781 - .9090	239.20	212.70	203.90	199.65	195.15	191.55
.9375	15/16	.290	1/4	3/4	6 1/8	4	351230	3	351430	169.45	.9091 - .9410	222.35	195.85	187.10	182.75	178.20	174.60
.9688	31/32	.353	5/16	3/4	6 3/8	4	351231	3	351431	191.70	.9411 - .9720	244.50	218.05	209.35	204.95	200.50	196.90
1.0000	1	.353	5/16	3/4	6 3/8	4	351232	3	351432	174.30	.9721 - 1.0030	227.20	200.65	191.85	187.55	183.10	179.45
1.0625	1 1/16	.353	5/16	3/4	6 3/8	4	351234	3	351434	176.15	1.0031 - 1.0660	229.05	202.50	193.70	189.50	184.95	181.30
1.1250	1 1/8	.353	5/16	1	6 3/8	4	351236	3	351436	180.75	1.0661 - 1.1280	233.50	207.05	198.35	193.85	189.50	185.90
1.1875	1 3/16	.353	5/16	1	6 3/8	4	351238	3	351438	188.65	1.1281 - 1.1905	241.45	215.15	206.35	201.95	197.45	193.85
1.2500	1 1/4	.426	3/8	1	6 3/8	-	-	4	351440	210.15	1.1906 - 1.2530	267.35	238.85	229.25	224.60	219.60	215.85
1.3125	1 5/16	.426	3/8	1	6 3/8	-	-	4	351442	226.80	1.2531 - 1.3155	284.20	255.55	245.90	241.20	236.40	232.50
1.3750	1 3/8	.426	3/8	1	6 3/8	-	-	4	351444	238.70	1.3156 - 1.3780	295.85	267.20	257.60	252.85	248.10	244.15
1.4375	1 7/16	.426	3/8	1 1/4	7 7/8	-	-	4	351446	261.60	1.3781 - 1.4405	323.75	292.65	282.25	277.10	271.95	267.60
1.5000	1 1/2	.426	3/8	1 1/4	7 7/8	-	-	4	351448	302.40	1.4406 - 1.5030	367.00	334.60	323.90	318.70	313.20	308.65
1.5625	1 5/8	.489	7/16	1 1/4	8 1/8	-	-	4	351450	311.30	1.5031 - 1.5660	375.95	343.55	332.80	327.45	322.10	317.65
1.6250	1 5/8	.489	7/16	1 1/4	8 1/8	-	-	4	351452	317.80	1.5661 - 1.6280	382.50	350.15	339.50	334.10	328.70	324.25
1.6875	1 11/16	.489	7/16	1 1/4	8 1/8	-	-	4	351454	380.35	1.6281 - 1.6910	449.95	415.15	403.50	397.65	391.85	387.00
1.7500	1 3/4	.489	7/16	1 1/4	8 1/8	-	-	4	351456	380.35	1.6911 - 1.7530	449.95	415.15	403.50	397.65	391.85	387.00
1.8125	1 13/16	.489	7/16	1 1/2	8 1/8	-	-	4	351458	450.15	1.7531 - 1.8160	519.90	485.10	473.45	467.70	461.65	457.05
1.8750	1 7/8	.489	7/16	1 1/2	8 1/8	-	-	4	351460	450.15	1.8161 - 1.8780	519.90	485.10	473.45	467.70	461.65	457.05
1.9375	1 15/16	.489	7/16	1 1/2	8 1/8	-	-	4	351462	491.95	1.8781 - 1.9410	561.85	526.95	515.25	509.40	503.60	498.85
2.0000	2	.551	1/2	1 1/2	8 3/8	-	-	4	351464	491.95	1.9411 - 2.0030	561.85	526.95	515.25	509.40	503.60	498.85

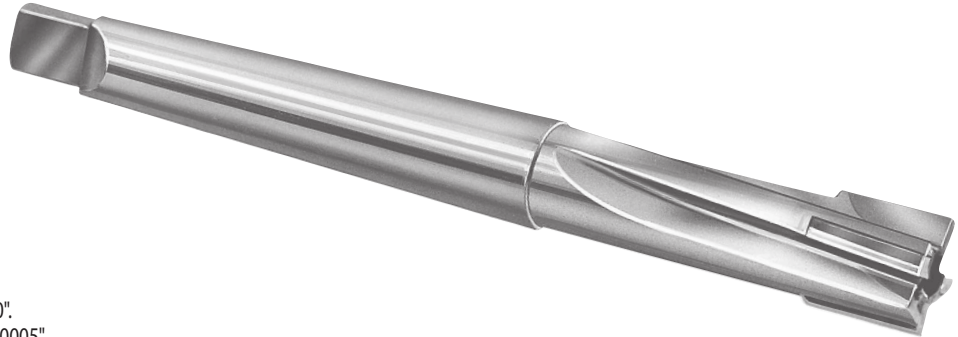
CARBIDE TIPPED COUNTERBORES FOR NON-FERROUS & CAST IRON

TYPE 3518 - TAPER SHANK - FOUR FLUTES

TYPE 3516 - TAPER SHANK - THREE/FOUR FLUTES

Carbide tips brazed to hardened alloy steel bodies. Right spiral smooth flutes. Interchangeable pilot type.

Tools are designed with appropriate carbide grade and tool geometry for machining non-ferrous, cast iron and non-metals.



Tool diameter tolerance: +.001"/-.000".
Shank diameter tolerance: +.0000"/-.0005".

TOOL DIAMETER		MIN. CUT DIAM.	PILOT HOLE DIAM.	MORSE TAPER	OVER ALL LEN.	TYPE 3518		TYPE 3516		BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTION					NO. OF FLTS.	EDP NO.	NO. OF FLTS.	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	.114	3/32	1	3 13/16	-	-	3	351608	\$131.20	.2381 - .2530	\$194.60	\$162.95	\$152.40	\$147.15	\$141.80	\$137.50
.2812	9/32	.114	3/32	1	3 13/16	-	-	3	351609	158.00	.2531 - .2840	221.15	189.40	178.90	173.75	168.55	164.05
.3125	5/16	.114	3/32	1	3 13/16	-	-	3	351610	134.90	.2841 - .3150	194.30	164.55	154.75	149.85	144.80	140.75
.3438	11/32	.114	3/32	1	3 13/16	-	-	3	351611	166.25	.3151 - .3470	225.65	195.85	185.95	181.10	176.05	172.00
.3750	3/8	.182	5/32	1	4 1/16	-	-	3	351612	139.25	.3471 - .3780	193.90	166.65	157.45	153.00	148.40	144.70
.4062	13/32	.182	5/32	1	4 1/16	-	-	3	351613	157.30	.3781 - .4090	212.10	184.65	175.60	171.00	166.50	162.65
.4375	7/16	.182	5/32	1	4 1/16	-	-	3	351614	143.05	.4091 - .4410	197.70	170.40	161.20	156.85	152.15	148.40
.4688	15/32	.228	3/16	1	4 5/16	-	-	3	351615	173.70	.4411 - .4720	228.40	201.00	191.85	187.40	182.80	179.05
.5000	1/2	.228	3/16	1	4 5/16	4	351816	3	351616	157.90	.4721 - .5030	212.80	185.25	176.05	171.75	166.95	163.25
.5312	13/32	.228	3/16	1	4 5/16	4	351817	3	351617	176.85	.5031 - .5340	231.55	204.20	195.00	190.55	185.95	182.20
.5625	9/16	.228	3/16	1	4 5/16	4	351818	3	351618	160.80	.5341 - .5660	215.60	188.20	179.15	174.55	170.00	166.25
.5938	19/32	.228	3/16	2	5 1/8	4	351819	3	351619	181.65	.5661 - .5970	236.55	209.10	200.00	195.45	190.85	187.05
.6250	5/8	.228	3/16	2	5 1/8	4	351820	3	351620	165.10	.5971 - .6280	219.85	192.55	183.35	179.00	174.15	170.45
.6562	21/32	.228	3/16	2	5 1/8	4	351821	3	351621	191.80	.6281 - .6590	246.60	219.20	210.00	205.65	200.90	197.20
.6875	11/16	.228	3/16	2	5 1/8	4	351822	3	351622	174.15	.6591 - .6910	229.10	201.60	192.55	187.95	183.35	179.60
.7188	23/32	.290	1/4	2	5 3/8	4	351823	3	351623	194.90	.6911 - .7220	249.75	222.35	213.25	208.80	204.10	200.45
.7500	3/4	.290	1/4	2	5 3/8	4	351824	3	351624	177.20	.7221 - .7530	231.95	204.60	195.45	191.00	186.25	182.45
.7812	25/32	.290	1/4	2	5 3/8	4	351825	3	351625	198.30	.7531 - .7840	252.95	225.65	216.45	211.95	207.35	203.65
.8125	13/16	.290	1/4	2	5 3/8	4	351826	3	351626	180.30	.7841 - .8160	235.00	207.70	198.60	193.90	189.40	185.65
.8438	27/32	.290	1/4	2	5 3/8	4	351827	3	351627	208.40	.8161 - .8470	263.30	235.95	226.80	222.30	217.70	213.95
.8750	7/8	.290	1/4	2	5 3/8	4	351828	3	351628	189.50	.8471 - .8780	244.30	216.85	207.80	203.20	198.70	194.85
.9062	29/32	.290	1/4	3	6 1/4	4	351829	3	351629	214.15	.8781 - .9090	268.90	241.45	232.50	227.80	223.30	219.55
.9375	15/16	.290	1/4	3	6 1/4	4	351830	3	351630	194.70	.9091 - .9410	249.40	222.05	212.95	208.35	203.90	200.05
.9688	31/32	.353	5/16	3	6 3/8	4	351831	3	351631	219.15	.9411 - .9720	273.85	246.50	237.40	232.85	228.10	224.35
1.0000	1	.353	5/16	3	6 3/8	4	351832	3	351632	206.75	.9721 - 1.0030	263.60	235.15	225.65	221.05	216.10	212.25
1.0625	1 1/16	.353	5/16	3	6 3/8	4	351834	3	351634	209.40	1.0031 - 1.0660	266.15	237.75	228.35	223.65	218.75	214.95
1.1250	1 1/8	.353	5/16	3	6 3/8	4	351836	3	351636	216.00	1.0661 - 1.1280	272.95	244.60	234.95	230.35	225.50	221.60
1.1875	1 3/16	.353	5/16	3	6 3/8	4	351838	3	351638	223.35	1.1281 - 1.1905	280.40	251.85	242.30	237.70	232.85	228.95
1.2500	1 1/4	.426	3/8	3	6 5/8	-	-	4	351640	248.35	1.1906 - 1.2530	309.95	279.15	268.90	263.85	258.60	254.30
1.3125	1 5/16	.426	3/8	3	6 5/8	-	-	4	351642	266.15	1.2531 - 1.3155	328.00	296.95	286.80	281.60	276.55	272.25
1.3750	1 3/8	.426	3/8	3	6 5/8	-	-	4	351644	278.95	1.3156 - 1.3780	340.55	309.75	299.45	294.35	289.30	284.90
1.4375	1 7/16	.426	3/8	4	7 7/8	-	-	4	351646	310.30	1.3781 - 1.4405	377.35	343.85	332.50	327.05	321.45	316.80
1.5000	1 1/2	.426	3/8	4	7 7/8	-	-	4	351648	344.00	1.4406 - 1.5030	411.05	377.60	366.40	360.85	355.25	350.60
1.5625	1 9/16	.489	7/16	4	8 1/8	-	-	4	351650	369.60	1.5031 - 1.5660	439.80	404.80	393.20	387.25	381.40	376.65
1.6250	1 5/8	.489	7/16	4	8 1/8	-	-	4	351652	376.25	1.5661 - 1.6280	446.40	411.45	399.75	393.90	387.95	383.25
1.6875	1 11/16	.489	7/16	4	8 1/8	-	-	4	351654	450.15	1.6281 - 1.6910	526.05	488.20	475.60	469.35	462.80	457.70
1.7500	1 3/4	.489	7/16	4	8 1/8	-	-	4	351656	450.15	1.6911 - 1.7530	526.05	488.20	475.60	469.35	462.80	457.70
1.8125	1 13/16	.489	7/16	4	8 1/8	-	-	4	351658	532.85	1.7531 - 1.8160	608.60	570.80	558.10	551.80	545.45	540.15
1.8750	1 7/8	.489	7/16	4	8 1/8	-	-	4	351660	532.85	1.8161 - 1.8780	608.60	570.80	558.10	551.80	545.45	540.15
1.9375	1 15/16	.489	7/16	4	8 1/8	-	-	4	351662	582.15	1.8781 - 1.9410	658.05	620.10	607.35	601.25	594.90	589.60
2.0000	2	.551	1/2	4	8 3/8	-	-	4	351664	582.15	1.9411 - 2.0030	658.05	620.10	607.35	601.25	594.90	589.60

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CARBIDE TIPPED AIRCRAFT/REDUCED SHANK COUNTERBORES

TYPE 3522 - STRAIGHT SHANK - THREE FLUTES

Carbide tips brazed to alloy steel bodies. Polished flutes.

For counterboring and spotfacing composites, non-metals, and non-ferrous materials used in airframe manufacturing.



Tool diameter tolerance: +.001"/-.000".
Shank diameter tolerance: +.0000"/-.001".
Corner radius: 1/64".

TOOL DIAMETER		MIN. CUT DIAM.	PILOT HOLE DIAM.	NO. OF FLUTES	SMALL SHANK DIAM.	OVER ALL LENGTH	EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTION									1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	.125	3/32	3	1/4	2 3/8	352208	\$87.25	.2381 - .2530	\$148.30	\$117.95	\$107.60	\$102.80	\$97.60	\$93.30
.2812	9/32	.125	3/32	3	1/4	2 3/8	352209	87.40	.2531 - .2840	148.45	118.05	107.75	102.85	97.65	93.45
.3125	5/16	.125	3/32	3	1/4	2 3/8	352210	89.70	.2841 - .3150	150.85	120.10	109.90	104.85	99.80	95.65
.3438	11/32	.125	3/32	3	1/4	2 3/8	352211	91.45	.3151 - .3470	152.60	121.85	111.75	106.75	101.65	97.50
.3750	3/8	.125	3/32	3	1/4	2 3/8	352212	91.65	.3471 - .3780	152.75	122.20	112.15	107.00	101.80	97.65
.4062	13/32	.156	1/8	3	1/4	2 3/4	352213	104.25	.3781 - .4090	165.20	134.90	124.55	119.65	114.35	110.30
.4375	7/16	.156	1/8	3	1/4	2 3/4	352214	112.35	.4091 - .4410	173.45	142.90	132.75	127.60	122.65	118.35
.4688	15/32	.156	1/8	3	1/4	2 3/4	352215	114.20	.4411 - .4720	175.40	144.80	134.60	129.70	124.50	120.25
.5000	1/2	.156	1/8	3	1/4	2 3/4	352216	115.65	.4721 - .5030	176.85	146.25	136.00	130.90	125.80	121.55
.5312	17/32	.156	1/8	3	1/4	2 3/4	352217	116.30	.5031 - .5340	177.30	146.70	136.60	131.55	126.30	122.20
.5625	9/16	.156	1/8	3	1/4	2 3/4	352218	116.75	.5341 - .5660	177.85	147.30	137.05	132.00	127.00	122.70
.5938	19/32	.156	1/8	3	1/4	2 3/4	352219	117.35	.5661 - .5970	178.60	148.00	137.90	132.75	127.55	123.35
.6250	5/8	.156	1/8	3	1/4	2 3/4	352220	118.65	.5971 - .6280	179.75	149.30	139.05	134.15	128.95	124.65
.6562	21/32	.219	3/16	3	1/4	2 3/4	352221	131.85	.6281 - .6590	192.95	162.35	152.30	147.30	142.10	137.95
.6875	11/16	.219	3/16	3	1/4	2 3/4	352222	138.50	.6591 - .6910	199.60	169.10	158.80	153.85	148.55	144.50
.7188	23/32	.219	3/16	3	1/4	2 3/4	352223	143.20	.6911 - .7220	204.10	173.75	163.40	158.60	153.30	149.25
.7500	3/4	.219	3/16	3	1/4	2 3/4	352224	144.95	.7221 - .7530	206.05	175.55	165.20	160.35	155.20	151.00
.7812	25/32	.219	3/16	3	1/4	2 3/4	352225	145.55	.7531 - .7840	206.75	176.15	165.95	160.80	155.75	151.55
.8125	13/16	.219	3/16	3	1/4	2 3/4	352226	146.80	.7841 - .8160	208.10	177.35	167.25	162.20	157.05	152.85
.8438	27/32	.219	3/16	3	1/4	2 3/4	352227	147.95	.8161 - .8470	209.00	178.20	168.15	163.20	158.00	153.85
.8750	7/8	.219	3/16	3	1/4	2 3/4	352228	149.30	.8471 - .8780	210.35	179.75	169.70	164.65	159.35	155.30
.9062	29/32	.219	3/16	3	1/4	2 3/4	352229	150.25	.8781 - .9090	211.40	180.90	170.80	165.70	160.50	156.30
.9375	15/16	.219	3/16	3	1/4	2 3/4	352230	151.70	.9091 - .9410	212.85	182.35	172.15	167.10	162.05	157.65
.9688	31/32	.219	3/16	3	1/4	2 3/4	352231	152.75	.9411 - .9720	213.85	183.25	173.25	168.10	162.95	158.75
1.0000	1	.219	3/16	3	1/4	2 3/4	352232	153.20	.9721 - 1.0030	214.40	183.80	173.55	168.55	163.35	159.20
1.0625	1 1/16	.219	3/16	3	3/8	2 3/4	352234	195.60	1.0031 - 1.0660	256.60	226.05	216.00	210.85	205.65	201.50
1.1250	1 1/8	.219	3/16	3	3/8	2 3/4	352236	208.65	1.0661 - 1.1280	269.75	239.20	229.10	224.05	218.85	214.60
1.1875	1 3/16	.219	3/16	3	3/8	2 3/4	352238	211.30	1.1281 - 1.1905	272.40	241.90	231.70	226.75	221.50	217.40
1.2500	1 1/4	.281	1/4	3	3/8	2 3/4	352240	215.25	1.1906 - 1.2530	276.55	245.80	235.55	230.55	225.60	221.35
1.3125	1 5/16	.281	1/4	3	3/8	2 3/4	352242	219.20	1.2531 - 1.3155	280.30	249.75	239.70	234.65	229.35	225.20
1.3750	1 3/8	.281	1/4	3	3/8	2 3/4	352244	221.75	1.3156 - 1.3780	283.00	252.55	242.30	237.15	232.10	227.80
1.4375	1 7/16	.281	1/4	3	3/8	2 3/4	352246	224.45	1.3781 - 1.4405	285.65	255.00	244.90	239.85	234.70	230.50
1.5000	1 1/2	.281	1/4	3	3/8	2 3/4	352248	236.30	1.4406 - 1.5030	299.60	267.95	257.40	252.20	246.75	242.50
1.5625	1 9/16	.343	5/16	3	1/2	3 1/16	352250	262.85	1.5031 - 1.5660	326.15	294.55	284.00	278.80	273.50	269.20
1.6250	1 5/8	.343	5/16	3	1/2	3 1/16	352252	266.30	1.5661 - 1.6280	329.65	298.00	287.60	282.30	276.95	272.50
1.6875	1 11/16	.343	5/16	3	1/2	3 1/16	352254	269.80	1.6281 - 1.6910	333.20	301.55	290.95	285.85	280.45	276.10
1.7500	1 3/4	.343	5/16	3	1/2	3 1/16	352256	273.95	1.6911 - 1.7530	337.35	305.55	295.05	289.80	284.50	280.25
1.8125	1 13/16	.343	5/16	3	1/2	3 1/16	352258	277.25	1.7531 - 1.8160	340.00	308.45	297.85	292.65	287.15	282.85
1.8750	1 7/8	.343	5/16	3	1/2	3 1/16	352260	279.25	1.8161 - 1.8780	342.65	310.95	300.30	295.25	289.80	285.45
1.9375	1 15/16	.343	5/16	3	1/2	3 1/16	352262	308.15	1.8781 - 1.9410	371.50	339.80	329.20	324.00	318.65	314.35
2.0000	2	.343	5/16	3	1/2	3 1/16	352264	383.40	1.9411 - 2.0030	447.00	415.30	404.70	399.50	394.15	389.70

LEXINGTON CUTTER, INC. • sales@lexingtoncutter.com • Phone 800-882-2627 • Fax 800-882-3637

CARBIDE TIPPED RADIAL DRIVE COUNTERBORES

TYPE 3577 - FOR NON-FERROUS & CAST IRON

Carbide tips brazed to hardened alloy steel bodies.

Tools are designed with appropriate carbide grade and tool geometry for machining non-ferrous, cast iron and non-metals.

TYPE 3578 - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies.

Tools are designed with appropriate carbide grade and tool geometry for machining steel and steel alloys.

Both types have 10° right spiral smooth flutes and accept only short shank pilots (see page 36).



Body length = 1 1/2"

Tool diameter tolerance: +.001"/-.000"

TOOL DIAMETER		MIN. CUT DIAM.	PILOT HOLE DIAM.	RADIAL DRIVE SIZE	LARGE SHANK DIAM.	NO. OF FLTS.	OVER ALL LENGTH	N-F./C.I. TYPE 3577 EDP NO.	STEEL TYPE 3578 EDP NO.	BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRAC.											1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.5000	1/2	.219	3/16	RB	5/8	3	2 7/8	357716	357816	\$245.15	.4721 - .5030	\$358.40	\$302.00	\$283.00	\$273.65	\$264.20	\$256.30
.5625	9/16	.219	3/16	RB	5/8	3	2 7/8	357718	357818	245.15	.5341 - .5660	358.40	302.00	283.00	273.65	264.20	256.30
.6250	5/8	.219	3/16	RB	5/8	3	2 7/8	357720	357820	245.15	.5971 - .6280	358.40	302.00	283.00	273.65	264.20	256.30
.6875	11/16	.297	1/4	RB	5/8	3	2 7/8	357722	357822	245.15	.6591 - .6910	358.40	302.00	283.00	273.65	264.20	256.30
.7500	3/4	.297	1/4	RB	5/8	4	2 7/8	357724	357824	245.15	.7221 - .7530	358.40	302.00	283.00	273.65	264.20	256.30
.8125	13/16	.297	1/4	RB	5/8	4	2 7/8	357726	357826	249.80	.7841 - .8160	363.10	306.50	287.50	278.30	268.90	260.90
.8750	7/8	.297	1/4	RB	5/8	4	2 7/8	357728	357828	249.80	.8471 - .8780	363.10	306.50	287.50	278.30	268.90	260.90
.9375	15/16	.297	1/4	RB	5/8	4	2 7/8	357730	357830	264.45	.9091 - .9410	377.75	321.10	302.15	292.80	283.40	275.55
1.0000	1	.297	1/4	RB	5/8	4	2 7/8	357732	357832	264.45	.9721 - 1.0030	377.75	321.10	302.15	292.80	283.40	275.55
1.0000	1	.359	5/16	RC	3/4	4	2 7/8	357733	357833	269.10	.9721 - 1.0030	382.40	325.75	306.85	297.50	287.95	280.25
1.0625	1 1/16	.359	5/16	RC	3/4	4	2 7/8	357734	357834	269.10	1.0031 - 1.0660	382.40	325.75	306.85	297.50	287.95	280.25
1.1250	1 1/8	.359	5/16	RC	3/4	4	2 7/8	357736	357836	269.10	1.0661 - 1.1280	382.40	325.75	306.85	297.50	287.95	280.25
1.1875	1 3/16	.359	5/16	RC	3/4	4	2 7/8	357738	357838	287.95	1.1281 - 1.1905	401.25	344.60	325.75	316.40	307.00	299.15
1.2500	1 1/4	.359	5/16	RC	3/4	4	2 7/8	357740	357840	287.95	1.1906 - 1.2530	401.25	344.60	325.75	316.40	307.00	299.15
1.3125	1 5/16	.359	5/16	RC	3/4	4	2 7/8	357742	357842	287.95	1.2531 - 1.3155	401.25	344.60	325.75	316.40	307.00	299.15
1.3750	1 3/8	.359	5/16	RC	3/4	4	2 7/8	357744	357844	287.95	1.3156 - 1.3780	401.25	344.60	325.75	316.40	307.00	299.15
1.3750	1 3/8	.359	5/16	RE	1	4	3	357745	357845	312.45	1.3151 - 1.3780	425.50	369.00	350.05	340.70	331.20	323.30
1.5000	1 1/2	.359	5/16	RE	1	4	3	357748	357848	350.45	1.4406 - 1.5030	463.75	407.15	388.30	378.95	369.55	361.65
1.5000	1 1/2	.484	7/16	RF	1 1/8	4	3 1/16	357749	357849	364.80	1.4406 - 1.5030	478.20	421.50	402.65	393.30	383.80	375.95
1.6250	1 5/8	.359	5/16	RE	1	4	3	357752	357852	364.80	1.5661 - 1.6280	478.20	421.50	402.65	393.30	383.80	375.95
1.6250	1 5/8	.484	7/16	RF	1 1/8	4	3 1/16	357753	357853	374.75	1.5661 - 1.6280	487.95	431.40	412.55	403.20	393.75	385.95
1.7500	1 3/4	.484	7/16	RF	1 1/8	6	3 1/16	357756	357856	460.65	1.6911 - 1.7530	573.95	517.30	498.45	489.10	479.70	471.85
1.8750	1 7/8	.484	7/16	RF	1 1/8	6	3 1/16	357760	357860	484.90	1.8161 - 1.8780	598.20	541.60	522.75	513.40	503.80	495.95
2.0000	2	.484	7/16	RF	1 1/8	6	3 1/16	357764	357864	528.10	1.9411 - 2.0030	641.55	584.85	565.90	556.55	547.15	539.30
2.0000	2	.563	1/2	RJ	1 3/8	6	3 1/16	357765	357865	528.10	1.9411 - 2.0030	641.55	584.85	565.90	556.55	547.15	539.30
2.1250	2 1/8	.563	1/2	RJ	1 3/8	6	3 1/16	357768	357868	542.45	2.0661 - 2.1280	655.75	599.35	580.40	571.05	561.60	553.70
2.2500	2 1/4	.563	1/2	RJ	1 3/8	6	3 1/16	357772	357872	566.30	2.1906 - 2.2530	679.60	623.00	604.10	594.75	585.30	577.50
2.3750	2 3/8	.563	1/2	RJ	1 3/8	6	3 1/16	357776	357876	597.70	2.3156 - 2.3780	715.30	656.50	636.90	627.40	617.25	609.05
2.5000	2 1/2	.563	1/2	RJ	1 3/8	6	3 1/16	357780	357880	622.95	2.4406 - 2.5030	740.60	681.80	662.10	652.45	642.70	634.50
2.6250	2 5/8	.563	1/2	RJ	1 3/8	6	3 1/16	357784	357884	637.25	2.5661 - 2.6280	755.00	696.20	676.45	666.85	657.05	648.90
2.7500	2 3/4	.563	1/2	RS	1 3/4	6	3 1/8	357788	357888	647.55	2.6911 - 2.7530	765.05	706.40	686.80	677.05	667.40	659.10
2.8750	2 7/8	.563	1/2	RS	1 3/4	6	3 1/8	357792	357892	682.50	2.8161 - 2.8780	800.15	741.35	721.75	712.00	702.20	694.05
3.0000	3	.563	1/2	RS	1 3/4	6	3 1/8	357796	357896	732.30	2.9411 - 3.0030	849.80	791.10	771.50	761.80	752.00	743.80

CARBIDE TIPPED PIN DRIVE COUNTERBORES

TYPE 3573 - FOR NON-FERROUS & CAST IRON

Carbide tips brazed to hardened alloy steel bodies.

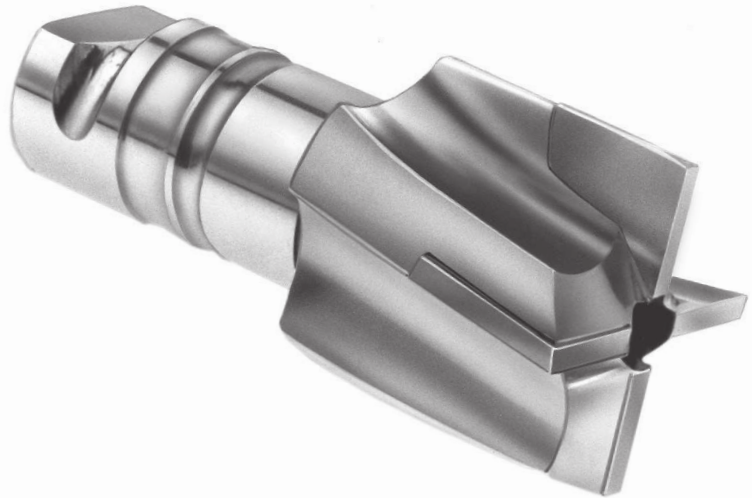
Tools are designed with appropriate carbide grade and tool geometry for machining non-ferrous, cast iron and non-metals.

TYPE 3574 - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies.

Tools are designed with appropriate carbide grade and tool geometry for machining steel and steel alloys.

Both types have 10° right spiral smooth flutes and accept short or long threaded shank pilots. For short shank pilots, see page 36. For long threaded shank pilots, contact us for price and availability. Pin drive shanks can also be used in straight shank holders or collets.



Tool diameter tolerance: +.001"/-.000".
Body length: 1 3/8".

TOOL DIAMETER		MIN. CUT DIAM.	PILOT HOLE DIAM.	PIN DRIVE NO.	SHANK DIAM.	NO. OF FLTS.	OVER ALL LENGTH	N-F/C.I. TYPE 3573 EDP NO.	STEEL TYPE 3574 EDP NO.	BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRACTIONAL											1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.5000	1/2	.2188	.1875	1	5/16	3	2 7/8	357316	357416	\$235.45	.4721 - .5030	\$348.85	\$292.20	\$273.10	\$263.85	\$254.30	\$246.45
.5625	9/16	.2188	.1875	1	5/16	3	2 7/8	357318	357418	235.45	.5341 - .5660	348.85	292.20	273.10	263.85	254.30	246.45
.6250	5/8	.2188	.1875	1	5/16	3	2 7/8	357320	357420	235.45	.5971 - .6280	348.85	292.20	273.10	263.85	254.30	246.45
.6875	11/16	.2969	.2500	1	5/16	3	2 7/8	357322	357422	221.20	.6591 - .6910	334.50	277.85	259.00	249.75	240.20	232.25
.7500	3/4	.2969	.2500	1	5/16	3	2 7/8	357324	357424	221.20	.7221 - .7530	334.50	277.85	259.00	249.75	240.20	232.25
.8125	13/16	.2969	.2500	1	5/16	4	2 7/8	357326	357426	221.20	.7841 - .8160	334.50	277.85	259.00	249.75	240.20	232.25
.8750	7/8	.2969	.2500	1	5/16	4	2 7/8	357328	357428	221.20	.8471 - .8780	334.50	277.85	259.00	249.75	240.20	232.25
.9375	15/16	.2969	.2500	1	5/16	4	2 7/8	357330	357430	226.20	.9091 - .9410	339.55	283.00	264.05	254.80	245.15	237.30
1.0000	1	.2969	.2500	1	5/16	4	2 7/8	357332	357432	230.40	.9721 - 1.0030	343.70	287.15	268.05	258.70	249.25	241.45
1.0625	1 1/16	.2969	.2500	1	5/16	4	2 7/8	357334	357434	254.80	1.0031 - 1.0660	367.90	311.45	292.50	283.15	273.65	265.80
1.0625	1 1/16	.3594	.3125	2	7/8	4	3	357335	357435	269.10	1.0031 - 1.0660	382.40	325.75	306.85	297.50	287.95	280.25
1.1250	1 1/8	.2969	.2500	1	5/16	4	2 7/8	357336	357436	254.80	1.0661 - 1.1280	367.90	311.45	292.50	283.15	273.65	265.80
1.1250	1 1/8	.3594	.3125	2	7/8	4	3	357337	357437	269.10	1.0661 - 1.1280	382.40	325.75	306.85	297.50	287.95	280.25
1.1875	1 3/16	.3594	.3125	2	7/8	4	3	357338	357438	278.95	1.1281 - 1.1905	392.35	335.75	316.70	307.35	297.95	290.10
1.2500	1 1/4	.3594	.3125	2	7/8	4	3	357340	357440	278.95	1.1906 - 1.2530	392.35	335.75	316.70	307.35	297.95	290.10
1.3125	1 5/16	.3594	.3125	2	7/8	4	3	357342	357442	283.40	1.2531 - 1.3155	396.75	340.10	321.10	311.80	302.30	294.50
1.3750	1 3/8	.3594	.3125	2	7/8	4	3	357344	357444	283.40	1.3156 - 1.3780	396.75	340.10	321.10	311.80	302.30	294.50
1.4375	1 7/16	.3594	.3125	2	7/8	4	3	357346	357446	297.70	1.3781 - 1.4405	410.90	354.45	335.35	326.05	316.55	308.65
1.5000	1 1/2	.3594	.3125	2	7/8	4	3	357348	357448	312.45	1.4406 - 1.5030	425.50	369.00	350.05	340.70	331.20	323.30
1.5625	1 5/8	.3594	.3125	2	7/8	4	3	357350	357450	335.90	1.5031 - 1.5660	449.10	392.50	373.65	364.25	354.80	346.90
1.6250	1 3/4	.3594	.3125	2	7/8	4	3	357352	357452	350.45	1.5661 - 1.6280	463.75	407.15	388.30	378.95	369.55	361.65
1.6875	1 11/16	.3594	.3125	2	7/8	4	3	357354	357454	364.80	1.6281 - 1.6910	478.20	421.50	402.65	393.30	383.80	375.95
1.7500	1 3/4	.3594	.3125	2	7/8	4	3	357356	357456	384.25	1.6911 - 1.7530	497.40	440.80	421.95	412.60	403.20	395.35
1.7500	1 3/4	.4844	.4375	3	1 1/4	6	3 1/16	357357	357457	437.30	1.6911 - 1.7530	550.75	494.10	475.10	465.80	456.35	448.50
1.8750	1 7/8	.4844	.4375	3	1 1/4	6	3 1/16	357360	357460	437.30	1.8161 - 1.8780	550.75	494.10	475.10	465.80	456.35	448.50
2.0000	2	.4844	.4375	3	1 1/4	6	3 1/16	357364	357464	495.00	1.9411 - 2.0030	608.20	551.75	532.80	523.50	513.85	506.05
2.1250	2 1/8	.4844	.4375	3	1 1/4	6	3 1/16	357368	357468	508.80	2.0661 - 2.1280	621.95	565.45	546.50	537.15	527.75	519.90
2.2500	2 1/4	.4844	.4375	3	1 1/4	6	3 1/16	357372	357472	528.10	2.1906 - 2.2530	641.55	584.85	565.90	556.55	547.15	539.30
2.3750	2 3/8	.4844	.4375	3	1 1/4	6	3 1/16	357376	357476	592.60	2.3156 - 2.3780	710.30	651.35	631.90	622.10	612.30	604.15
2.5000	2 1/2	.5625	.5000	3	1 1/4	6	3 1/16	357380	357480	637.25	2.4406 - 2.5030	755.00	696.20	676.45	666.85	657.05	648.90
2.7500	2 3/4	.5625	.5000	3	1 1/4	6	3 1/16	357388	357488	707.50	2.6911 - 2.7530	825.05	766.25	746.55	736.90	727.10	719.05
3.0000	3	.5625	.5000	3	1 1/4	6	3 1/16	357396	357496	747.40	2.9411 - 3.0030	865.15	806.35	786.75	777.00	767.25	759.05

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CARBIDE TIPPED STUB TAPER SHANK COUNTERBORES

TYPE 3575 - FOR NON-FERROUS & CAST IRON

Carbide tips brazed to hardened alloy steel bodies.

Tools are designed with appropriate carbide grade and tool geometry for machining non-ferrous, cast iron and non-metals.

TYPE 3576 - FOR STEEL

Carbide tips brazed to hardened alloy steel bodies.

Tools are designed with appropriate carbide grade and tool geometry for machining steel and steel alloys.

Both types have 10° right spiral smooth flutes and accept only short shank pilots (see page 36).



Tool diameter tolerance: +.001"/-.000".

Stub taper dimensions conform to ASME/ANSI B5.10 specifications.

Body length = 1 1/4" thru 1.9410" tool diameter.

= 1 1/2" above 1.9410" tool diameter.

TOOL DIAMETER		MIN. CUT DIAM.	PILOT HOLE DIAM.	STUB TAPER NO.	NO. OF FLTS.	OVER ALL LENGTH	N-F/C.I. TYPE 3575 EDP NO.	STEEL TYPE 3576 EDP NO.	BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL										1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.5000	1/2	.2188	.1875	1	3	2 1/16	357516	357616	273.70	.4721 - .5030	\$377.95	\$325.90	\$308.45	\$299.85	\$291.05	\$283.90
.5625	9/16	.2188	.1875	1	3	2 1/16	357518	357618	273.70	.5341 - .5660	377.95	325.90	308.45	299.85	291.05	283.90
.6250	5/8	.2188	.1875	1	3	2 1/16	357520	357620	273.70	.5971 - .6280	377.95	325.90	308.45	299.85	291.05	283.90
.6875	11/16	.2188	.1875	1	3	2 1/16	357522	357622	273.70	.6591 - .6910	377.95	325.90	308.45	299.85	291.05	283.90
.7500	3/4	.2969	.2500	2	4	2 7/8	357524	357624	256.45	.7221 - .7530	360.70	308.75	291.25	282.75	274.00	266.75
.8125	13/16	.2969	.2500	2	4	2 7/8	357526	357626	256.45	.7841 - .8160	360.70	308.75	291.25	282.75	274.00	266.75
.8750	7/8	.2969	.2500	2	4	2 7/8	357528	357628	256.45	.8471 - .8780	360.70	308.75	291.25	282.75	274.00	266.75
.9375	15/16	.2969	.2500	2	4	2 7/8	357530	357630	247.35	.9091 - .9410	351.65	299.55	282.15	273.65	264.90	257.70
1.0000	1	.3594	.3125	2	4	2 7/8	357532	357632	247.35	.9721 - 1.0030	351.65	299.55	282.15	273.65	264.90	257.70
1.0625	1 1/16	.3594	.3125	2	4	2 7/8	357534	357634	247.35	1.0031 - 1.0660	351.65	299.55	282.15	273.65	264.90	257.70
1.1250	1 1/8	.3594	.3125	2	4	2 7/8	357536	357636	247.35	1.0661 - 1.1280	351.65	299.55	282.15	273.65	264.90	257.70
1.1875	1 3/16	.3594	.3125	2	4	2 7/8	357538	357638	256.45	1.1281 - 1.1905	360.70	308.75	291.25	282.75	274.00	266.75
1.2500	1 1/4	.3594	.3125	2	4	2 7/8	357540	357640	256.45	1.1906 - 1.2530	360.70	308.75	291.25	282.75	274.00	266.75
1.3125	1 5/16	.3594	.3125	2	4	2 7/8	357542	357642	260.60	1.2531 - 1.3155	364.85	312.75	295.35	286.65	278.10	270.80
1.3750	1 3/8	.3594	.3125	2	4	2 7/8	357544	357644	287.20	1.3156 - 1.3780	391.35	339.40	321.95	313.35	304.70	297.50
1.4375	1 7/16	.3594	.3125	2	4	2 7/8	357546	357646	313.75	1.3781 - 1.4405	417.90	365.85	348.35	339.80	331.05	323.70
1.5000	1 1/2	.3594	.3125	2	4	2 7/8	357548	357648	339.95	1.4406 - 1.5030	444.25	392.15	374.80	366.15	357.50	350.20
1.5625	1 5/8	.4844	.4375	3	6	3 3/16	357550	357650	362.00	1.5031 - 1.5660	466.35	414.15	396.80	388.40	379.55	372.35
1.6250	1 3/4	.4844	.4375	3	6	3 3/16	357552	357652	406.30	1.5661 - 1.6280	510.40	458.45	441.05	432.40	423.55	416.45
1.6875	1 15/16	.4844	.4375	3	6	3 3/16	357554	357654	441.35	1.6281 - 1.6910	545.65	493.55	476.25	467.65	458.90	451.70
1.7500	1 3/4	.4844	.4375	3	6	3 3/16	357556	357656	476.75	1.6911 - 1.7530	580.95	528.90	511.55	503.00	494.15	487.05
1.8125	1 13/16	.4844	.4375	3	6	3 3/16	357558	357658	503.45	1.7531 - 1.8160	607.75	555.65	538.10	529.65	520.90	513.70
1.8750	1 7/8	.4844	.4375	3	6	3 3/16	357560	357660	529.75	1.8161 - 1.8780	633.95	581.85	564.45	555.80	547.05	539.85
1.9375	1 15/16	.4844	.4375	3	6	3 3/16	357562	357662	556.50	1.8781 - 1.9410	660.70	608.60	591.20	582.60	573.95	566.60
2.0000	2	.5625	.5000	4	6	3 3/4	357564	357664	582.70	1.9411 - 2.0030	686.85	634.95	617.50	608.90	600.25	592.90
2.1250	2 1/8	.5625	.5000	4	6	3 3/4	357568	357668	600.40	2.0661 - 2.1280	704.65	652.50	635.10	626.55	617.90	610.60
2.2500	2 1/4	.5625	.5000	4	6	3 3/4	357572	357672	617.80	2.1906 - 2.2530	721.95	670.00	652.45	643.95	635.10	628.00
2.3750	2 3/8	.5625	.5000	4	6	3 3/4	357576	357676	664.40	2.3156 - 2.3780	772.40	718.35	700.35	691.45	682.40	675.00
2.5000	2 1/2	.5625	.5000	4	6	3 3/4	357580	357680	687.45	2.4406 - 2.5030	795.70	741.65	723.60	714.70	705.65	698.15
2.7500	2 3/4	.5625	.5000	4	6	3 3/4	357588	357688	724.05	2.6911 - 2.7530	832.10	778.05	759.90	751.10	742.05	734.60
3.0000	3	.5625	.5000	4	6	3 3/4	357596	357696	760.50	2.9411 - 3.0030	868.50	814.65	796.55	787.60	778.55	771.10

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*Quantities of 15 or more: price of fractional size in same size range.

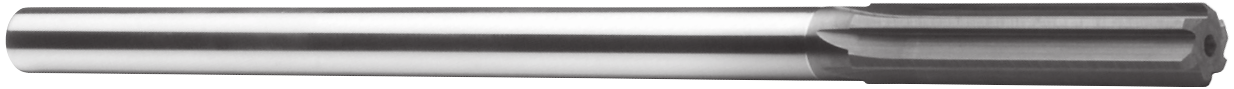
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SOLID CARBIDE HEAD REAMERS

TYPE 3801 - STRAIGHT STEEL SHANK - STRAIGHT FLUTES - FOR NON-FERROUS
TYPE 3800 - STRAIGHT STEEL SHANK - STRAIGHT FLUTES - FOR CAST IRON & STEEL

Solid carbide head brazed to hardened alloy steel shank on tool diameters .1911" and larger.
 Solid carbide head and shank on diameters .1910" and below.
 Tool geometry appropriate for material being machined.

We recommend our Carbide Tipped Reamers Type 3480 (page 78) or Type 3459 (page 94) for better performance when reaming cast steels and tough steel alloys. The carbide grade and tool geometry are appropriate for these materials. Diameters 7/64" and below provided with male centers.



Tool diameter tolerance thru .2500": +.0002"/-.0000".
 over .2500": +.0003"/-.0000".
 Shank diameter tolerance: +.0000"/-.0010".

For closer tool diameter tolerance pricing, see page 60.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLUTES	LENGTH		NON-FERR. TYPE 3801 EDP NO.	C.I./STEEL TYPE 3800 EDP NO.	BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTION			FLUTE	OAL					1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
* .0938	3/32	.0800	4	3/4	3	-	380099	-	.0811 - .0890	\$113.50	\$83.95	\$73.75	\$69.15	\$63.90	\$60.05
*.1094	7/64	.0943	4	7/8	3 1/2	-	380007	54.25	.0891 - .0970	113.50	83.95	73.75	69.15	63.90	60.05
*.1250	1/8	.1099	4	7/8	3 1/2	380108	380008	54.25	.0971 - .1120	113.50	83.95	73.75	69.15	63.90	60.05
*.1406	9/64	.1255	4	7/8	3 1/2	380109	380009	62.00	.1121 - .1280	113.50	83.95	73.75	69.15	63.90	60.05
*.1562	5/32	.1411	4	1	4	380110	380010	63.75	.1281 - .1435	121.30	91.55	81.55	76.90	71.80	67.80
*.1719	11/64	.1567	4	1	4	380111	380011	71.90	.1436 - .1590	123.00	93.40	83.30	78.65	73.50	69.70
*.1875	3/16	.1724	4	1 1/8	4 1/2	380112	380012	73.40	.1591 - .1750	131.05	101.60	91.55	86.80	81.80	77.75
.2031	13/64	.1880	6	1 1/4	5	380113	380013	78.25	.1751 - .1910	132.75	103.05	93.00	88.30	83.25	79.35
.2188	7/32	.1880	6	1 1/4	5	380114	380014	78.25	-	-	-	-	-	-	-
.2344	15/64	.2193	6	1 1/2	6	380115	380015	83.25	.1911 - .2210	137.55	107.95	97.95	93.15	88.05	84.20
.2500	1/4	.2193	6	1 1/2	6	380116	380016	83.25	-	-	-	-	-	-	-
.2656	17/64	.2505	6	1 1/2	6	380117	380017	89.50	.2211 - .2530	142.50	112.80	102.90	98.30	93.00	89.10
.2812	9/32	.2505	6	1 1/2	6	380118	380018	89.50	-	-	-	-	-	-	-
.2969	19/64	.2817	6	1 5/8	6	380119	380019	93.15	.2531 - .2840	148.70	119.15	109.15	104.50	99.40	95.40
.3125	5/16	.2817	6	1 5/8	6	380120	380020	93.15	-	-	-	-	-	-	-
.3281	21/64	.3130	6	1 5/8	6	380121	380021	99.75	.2841 - .3150	152.40	122.75	112.80	108.10	103.05	99.00
.3438	11/32	.3130	6	1 5/8	6	380122	380022	99.75	-	-	-	-	-	-	-
.3594	23/64	.3443	6	1 3/4	7	380123	380023	107.25	.3151 - .3470	158.90	129.20	119.20	114.45	109.50	105.55
.3750	3/8	.3443	6	1 3/4	7	380124	380024	107.25	-	-	-	-	-	-	-
.3906	25/64	.3755	6	1 3/4	7	380125	380025	122.50	.3471 - .3780	166.40	136.70	126.80	122.10	117.05	113.10
.4062	13/32	.3755	6	1 3/4	7	380126	380026	122.50	-	-	-	-	-	-	-
.4219	27/64	.4067	6	1 3/4	7	380127	380027	130.15	.3781 - .4090	181.70	152.05	142.25	137.50	132.35	128.30
.4375	7/16	.4067	6	1 3/4	7	380128	380028	130.15	-	-	-	-	-	-	-
.4531	29/64	.4380	6	1 3/4	8	380129	380029	138.00	.4091 - .4410	189.35	159.65	149.80	145.15	139.90	135.90
.4688	15/32	.4380	6	1 3/4	8	380130	380030	138.00	-	-	-	-	-	-	-
.4844	31/64	.4693	6	1 3/4	8	380131	380031	148.10	.4411 - .4720	197.20	167.50	157.60	152.95	147.90	143.75
.5000	1/2	.4693	6	1 3/4	8	380132	380032	148.10	-	-	-	-	-	-	-
.5156	33/64	.5005	6	1 7/8	9	380133	380033	191.10	.4721 - .5030	207.45	177.75	167.70	163.00	157.95	154.00
.5312	17/32	.5005	6	1 7/8	9	380134	380034	191.10	-	-	-	-	-	-	-
.5469	35/64	.5005	6	1 7/8	9	380135	380035	225.55	.5031 - .5340	250.25	220.55	210.75	206.00	200.85	196.80
.5625	9/16	.5005	6	1 7/8	9	380136	380036	221.45	-	-	-	-	-	-	-
.5781	37/64	.5630	6	1 7/8	9	380137	380037	251.30	.5341 - .5660	279.60	250.35	240.60	236.05	231.05	227.15
.5938	19/32	.5630	6	1 7/8	9	380138	380038	251.30	-	-	-	-	-	-	-
.6094	39/64	.5630	6	1 7/8	9	380139	380039	254.15	.5661 - .5970	309.45	280.40	270.55	265.90	261.00	256.95
.6250	5/8	.5630	6	1 7/8	9	380140	380040	254.15	-	-	-	-	-	-	-
.6562	21/32	.6255	6	2	9 1/2	380142	380042	367.65	.5971 - .6280	312.20	283.05	273.45	268.80	263.80	259.75
.6875	11/16	.6255	6	2	9 1/2	380144	380044	367.65	.6281 - .6590	422.95	395.25	386.00	381.55	377.40	373.05
.7188	23/32	.6880	6	2	9 1/2	380146	380046	413.70	.6591 - .6910	422.95	395.25	386.00	381.55	377.40	373.05
.7500	3/4	.6880	6	2	9 1/2	380148	380048	413.70	.6911 - .7220	469.00	441.20	432.05	427.55	423.45	419.10
.7812	25/32	.7505	8	2	10	380150	380050	459.25	.7221 - .7530	469.00	441.20	432.05	427.55	423.45	419.10
.8125	13/16	.7817	8	2	10	380152	380052	501.05	.7531 - .7840	514.50	486.80	477.55	473.10	468.85	464.50
.8438	27/32	.8130	8	2	10	380154	380054	528.40	.7841 - .8160	556.35	528.55	519.40	514.95	510.75	506.45
.8750	7/8	.8440	8	2	10	380156	380056	517.35	.8161 - .8470	583.70	556.00	546.75	542.35	538.05	533.80
.9062	29/32	.8755	8	2	10	380158	380058	605.35	.8471 - .8780	572.70	544.90	535.75	531.30	527.05	522.70
.9375	15/16	.9067	8	2	10	380160	380060	636.35	.8781 - .9090	660.65	632.90	623.70	619.30	615.00	610.75
.9688	31/32	.9380	8	2	10	380162	380062	666.55	.9091 - .9410	691.60	663.90	654.65	650.20	646.00	641.65
1.0000	1	.9693	8	2	10	380164	380064	691.65	.9411 - .9720	721.85	694.15	684.90	680.45	676.20	671.85
									.9721 - 1.0030	746.95	719.25	710.00	705.60	701.40	697.05

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SOLID CARBIDE CHUCKING REAMERS

TYPE 3801 - LONG LENGTH - STRAIGHT SHANK - STRAIGHT FLUTES - FOR NON-FERROUS
TYPE 3800 - LONG LENGTH - STRAIGHT SHANK - STRAIGHT FLUTES - FOR CAST IRON & STEEL

Extended length series solid carbide chucking reamers. Tool geometry appropriate for material being machined.



Tool diameter tolerance +.0002"/-.0000".
 Shank diameter tolerance: +.0000"/-.0010".
 For closer tool diameter tolerance pricing, see page 60.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLUTES	LENGTH		NON-FERR. TYPE 3801 EDP NO.	C.I./STEEL TYPE 3800 EDP NO.	BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLUTE	OAL					1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
* -	-	.0800	4	3/4	3	-	380099	-	.0811 - .0890	\$113.50	\$83.95	\$73.75	\$69.15	\$63.90	\$60.05
*.0938	3/32	.0880	4	3/4	3	-	380006	\$54.25	.0891 - .0970	113.50	83.95	73.75	69.15	63.90	60.05
*.1094	7/64	.0943	4	7/8	3 1/2	-	380007	54.25	.0971 - .1120	113.50	83.95	73.75	69.15	63.90	60.05
.1250	1/8	.1099	4	7/8	3 1/2	380108	380008	54.25	.1121 - .1280	113.50	83.95	73.75	69.15	63.90	60.05
.1406	9/64	.1255	4	7/8	3 1/2	380109	380009	62.00	.1281 - .1435	121.30	91.55	81.55	76.90	71.80	67.80
.1562	5/32	.1411	4	1	4	380110	380010	63.75	.1436 - .1590	123.00	93.40	83.30	78.65	73.50	69.70
.1719	11/64	.1567	4	1	4	380111	380011	71.90	.1591 - .1750	131.05	101.60	91.55	86.80	81.80	77.75
.1875	3/16	.1724	4	1 1/8	4 1/2	380112	380012	73.40	.1751 - .1910	132.75	103.05	93.00	88.30	83.25	79.35

*Provided with male centers

**Quantities of 15 or more: price of fractional size in same size range.

TYPE 3803 - STRAIGHT SHANK - STRAIGHT FLUTES - FOR NON-FERROUS
TYPE 3802 - STRAIGHT SHANK - STRAIGHT FLUTES - FOR CAST IRON & STEEL

Short series solid carbide head and shank. Tool geometry appropriate for material being machined.
 For stocked general purpose reamers in decimal sizes and .0005" increments (Type 3804), see pages 55-58.



Tool diameter tolerance thru .2500": +.0002"/-.0000".
 over .2500": +.0003"/.0000".
 Shank diameter tolerance: +.0000"/-.0010".
 For closer tool diameter tolerance pricing, see page 60.

DECIMAL SIZE RANGE	MAX. SHANK DIAMETER	NO. OF FLUTES	LENGTH		NON-FERR. TYPE 3803 EDP NO.	C.I./STEEL TYPE 3802 EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE						
			FLUTE	OAL			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
*.0591 - .0660	.0580	4	3/8	1 1/2	-	380204	\$106.75	\$66.50	\$53.00	\$46.65	\$39.75	\$34.30	\$26.40
*.0661 - .0740	.0650	4	1/2	1 3/4	-	380245	107.15	66.80	53.35	46.90	40.05	34.60	26.70
*.0741 - .0810	.0730	4	1/2	1 3/4	-	380205	107.30	66.95	53.40	47.20	40.15	34.85	26.80
*.0811 - .0890	.0800	4	1/2	2	-	380255	107.90	67.65	54.15	47.80	40.95	35.45	27.60
*.0891 - .0970	.0880	4	1/2	2	-	380206	108.65	68.25	54.85	48.45	41.65	36.00	28.25
*.0971 - .1120	.0943	4	5/8	2 1/4	380307	380207	109.00	68.65	55.20	48.80	41.90	36.50	28.65
.1121 - .1280	.1099	4	5/8	2 1/4	380308	380208	110.95	70.55	57.15	50.75	43.80	38.35	30.50
.1281 - .1435	.1255	4	3/4	2 1/2	380309	380209	111.65	71.40	57.90	51.55	44.65	39.25	31.30
.1436 - .1590	.1411	4	3/4	2 1/2	380310	380210	113.60	73.25	59.80	53.40	46.60	41.05	33.15
.1591 - .1750	.1567	4	7/8	2 3/4	380311	380211	117.90	77.45	64.05	57.75	50.85	45.40	37.45
.1751 - .1910	.1724	4	7/8	2 3/4	380312	380212	120.70	80.35	66.95	60.60	53.55	48.30	40.30
.1911 - .2210	.1880	6	1	3	380314	380214	125.70	85.40	71.95	65.60	58.75	53.30	45.40
.2211 - .2530	.2193	6	1	3	380316	380216	134.25	94.00	80.50	74.20	67.30	61.80	53.95
.2531 - .2840	.2505	6	1 1/8	3 1/4	380318	380218	144.25	103.90	90.45	84.05	77.25	71.75	63.90
.2841 - .3150	.2817	6	1 1/8	3 1/4	380320	380220	155.25	114.95	101.30	95.10	88.20	82.75	74.85
.3151 - .3470	.3130	6	1 1/4	3 1/2	380322	380222	171.50	131.25	117.85	111.45	104.55	98.90	91.25
.3471 - .3780	.3443	6	1 1/4	3 1/2	380324	380224	173.65	133.40	120.05	113.60	106.70	101.15	93.35
.3781 - .4090	.3755	6	1 3/8	3 3/4	380326	380226	188.00	147.75	134.25	127.75	120.95	115.55	107.60
.4091 - .4410	.4067	6	1 3/8	3 3/4	380328	380228	189.65	149.30	135.85	129.50	122.65	117.10	109.20
.4411 - .4720	.4380	6	1 1/2	4	380330	380230	201.15	160.85	147.35	141.05	134.15	128.75	120.80
.4721 - .5150	.4693	6	1 1/2	4	380332	380232	212.35	172.05	158.50	152.25	145.35	139.95	132.00

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SOLID CARBIDE SPIRAL CHUCKING REAMERS

TYPE 3811 - LONG LENGTH - RIGHT SPIRAL FLUTES - FOR NON-FERROUS

TYPE 3810 - LONG LENGTH - RIGHT SPIRAL FLUTES - FOR CAST IRON & STEEL

TYPE 3821 - LONG LENGTH - LEFT SPIRAL FLUTES - FOR NON-FERROUS

TYPE 3820 - LONG LENGTH - LEFT SPIRAL FLUTES - FOR CAST IRON & STEEL

Extended length series. Ground with spiral flutes for reaming holes with interruptions such as keyways, slots or intersecting holes. Left spiral flutes should not be used on blind holes.



Tool diameter tolerance: +.0002"/-.0000".

Shank diameter tolerance: +.0000"/-.0010".

For closer tool diameter tolerance pricing, see page 60.

TOOL DIAMETER		MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		RIGHT SPIRAL		LEFT SPIRAL		ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRAC.			FLT.	OAL	NON-FERR. TYPE 3811 EDP NO.	C.I./STEEL TYPE 3810 EDP NO.	NON-FERR. TYPE 3821 EDP NO.	C.I./STEEL TYPE 3820 EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1250	1/8	.1099	4	7/8	3 1/2	381108	381008	382108	382008	\$55.35	.1121 - .1280	\$105.05	\$80.20	\$71.75	\$67.80	\$63.50	\$60.25
.1406	9/64	.1255	4	7/8	3 1/2	381109	381009	382109	382009	63.20	.1281 - .1435	112.95	88.00	79.70	75.75	71.55	68.20
.1562	5/32	.1411	4	1	4	381110	381010	382110	382010	65.30	.1436 - .1590	114.95	89.95	81.60	77.70	73.40	70.05
.1719	11/64	.1567	4	1	4	381111	381011	382111	382011	80.80	.1591 - .1750	135.55	108.20	98.90	94.60	89.95	86.35
.1875	3/16	.1724	4	1 1/8	4 1/2	381112	381012	382112	382012	82.50	.1751 - .1910	137.05	109.80	100.60	96.30	91.65	87.95

*Quantities of 15 or more: price of fractional size in same size range.

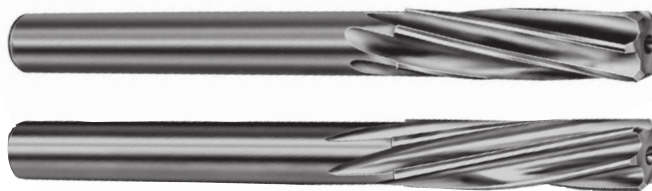
TYPE 3813 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - FOR NON-FERROUS

TYPE 3812 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - FOR CAST IRON & STEEL

TYPE 3823 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - FOR NON-FERROUS

TYPE 3822 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - FOR CAST IRON & STEEL

Short length solid carbide head and shank. Ground with spiral flutes for reaming holes with interruptions such as keyways, slots or intersecting holes. Left spiral flutes should not be used on blind holes.



Tool diameter tolerance thru .2500": +.0002"/-.0000".

over .2500": +.0003"/.0000".

Shank diameter tolerance: +.0000"/-.0010".

For closer tool diameter tolerance pricing, see page 60.

DECIMAL SIZE RANGE	MAX. SHANK DIAM.	NO. OF FLTS.	FLT. LEN.	OVER ALL LEN.	RIGHT SPIRAL		LEFT SPIRAL		PRICE EACH - FINISHED TO DECIMAL SIZE						
					NON-FERR. TYPE 3813 EDP NO.	C.I./STEEL TYPE 3812 EDP NO.	NON-FERR. TYPE 3823 EDP NO.	C.I./STEEL TYPE 3822 EDP NO.	1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
*.0971 - .1120	.0943	4	5/8	2 1/4	381307	381207	382307	382207	\$113.15	\$72.45	\$58.80	\$52.35	\$45.30	\$39.80	\$31.80
.1121 - .1280	.1099	4	5/8	2 1/4	381308	381208	382308	382208	115.30	74.50	60.85	54.50	47.35	41.85	33.95
.1281 - .1435	.1255	4	3/4	2 1/2	381309	381209	382309	382209	122.05	79.35	65.00	58.20	50.90	45.05	36.65
.1436 - .1590	.1411	4	3/4	2 1/2	381310	381210	382310	382210	124.35	81.50	67.15	60.40	53.05	47.20	39.00
.1591 - .1750	.1567	4	7/8	2 3/4	381311	381211	382311	382211	129.30	86.55	72.20	65.30	58.10	52.20	43.85
.1751 - .1910	.1724	4	7/8	2 3/4	381312	381212	382312	382212	132.55	89.85	75.40	68.60	61.25	55.50	47.15
.1911 - .2210	.1880	6	1	3	381314	381214	382314	382214	144.95	100.20	85.15	78.05	70.35	64.25	55.50
.2211 - .2530	.2193	6	1	3	381316	381216	382316	382216	155.60	110.60	95.60	88.60	80.85	74.90	66.15
.2531 - .2840	.2505	6	1 1/8	3 1/4	381318	381218	382318	382218	167.80	122.95	107.90	100.95	93.15	87.15	78.35
.2841 - .3150	.2817	6	1 1/8	3 1/4	381320	381220	382320	382220	181.05	136.20	121.20	114.15	106.45	100.35	91.50
.3151 - .3470	.3130	6	1 1/4	3 1/2	381322	381222	382322	382222	201.05	156.20	141.20	134.15	126.40	120.25	111.55
.3471 - .3780	.3443	6	1 1/4	3 1/2	381324	381224	382324	382224	203.75	158.90	143.95	136.75	129.15	123.00	114.20
.3781 - .4090	.3755	6	1 3/8	3 3/4	381326	381226	382326	382226	209.40	164.50	149.45	142.35	134.65	128.60	119.90
.4091 - .4410	.4067	6	1 3/8	3 3/4	381328	381228	382328	382228	211.15	166.20	151.15	144.10	136.45	130.30	121.65
.4411 - .4720	.4380	6	1 1/2	4	381330	381230	382330	382230	223.95	179.05	164.10	157.05	149.40	143.25	134.45
.4721 - .5150	.4693	6	1 1/2	4	381332	381232	382332	382232	236.40	191.55	176.50	169.55	161.75	155.70	146.95

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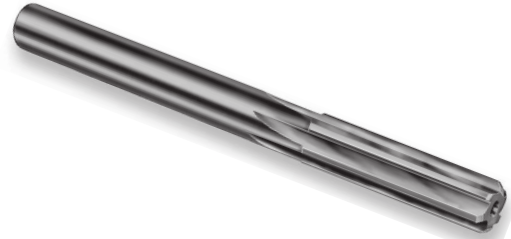
*Provided with male centers

Made in U.S.A.

SOLID CARBIDE COOLANT FED CHUCKING REAMERS

TYPE 3807 - STRAIGHT SHANK - STRAIGHT FLUTES - BLIND HOLES - FOR NON-FERROUS
TYPE 3806 - STRAIGHT SHANK - STRAIGHT FLUTES - BLIND HOLES - FOR CAST IRON & STEEL

Short length series solid carbide coolant fed chucking reamers.
 Center coolant feeding hole for flushing chips back towards shank.



Tool diameter tolerance thru .2500": +.0002"/-.0000".
 over .2500": +.0003"/-.0000".

Shank diameter tolerance: +.0000"/-.0010".

For closer tool diameter tolerance pricing, see page 60.

CENTER FED COOLANT

DECIMAL SIZE RANGE	MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3807 EDP NO.	C.I./STEEL TYPE 3806 EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE						
			FLUTE	OAL			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
.1121 - .1280	.1099	4	5/8	2 1/4	380708	380608	\$202.65	\$175.55	\$166.50	\$162.20	\$157.35	\$153.75	\$148.40
.1281 - .1435	.1255	4	3/4	2 1/2	380709	380609	204.10	176.85	168.00	163.50	158.90	155.20	149.85
.1436 - .1590	.1411	4	3/4	2 1/2	380710	380610	204.90	177.85	168.80	164.40	159.65	156.05	150.75
.1591 - .1750	.1567	4	7/8	2 3/4	380711	380611	206.90	179.80	170.80	166.40	161.65	158.05	152.75
.1751 - .1910	.1724	4	7/8	2 3/4	380712	380612	215.25	187.95	179.05	174.60	170.00	166.35	161.05
.1911 - .2210	.1880	6	1	3	380714	380614	218.40	191.25	182.20	177.85	173.15	169.45	164.25
.2211 - .2530	.2193	6	1	3	380716	380616	222.30	195.15	186.10	181.75	176.90	173.45	168.10
.2531 - .2840	.2505	6	1 1/8	3 1/4	380718	380618	228.65	201.45	192.45	187.95	183.35	179.75	174.30
.2841 - .3150	.2817	6	1 1/8	3 1/4	380720	380620	233.85	206.75	197.70	193.30	188.65	185.10	179.75
.3151 - .3470	.3130	6	1 1/4	3 1/2	380722	380622	240.35	213.15	204.20	199.65	195.15	191.45	186.10
.3471 - .3780	.3443	6	1 1/4	3 1/2	380724	380624	247.65	220.45	211.50	207.10	202.45	198.75	193.45
.3781 - .4090	.3755	6	1 3/8	3 3/4	380726	380626	259.10	231.95	223.05	218.55	213.95	210.25	204.90

TYPE 3809 - STRAIGHT SHANK - STRAIGHT FLUTES - THROUGH HOLES - FOR NON-FERROUS
TYPE 3808 - STRAIGHT SHANK - STRAIGHT FLUTES - THROUGH HOLES - FOR CAST IRON & STEEL

Short length series solid carbide coolant fed chucking reamers.
 Coolant feeding hole in each flute for flushing chips forward through the hole being reamed.



Tool diameter tolerance thru .2500": +.0002"/-.0000".
 over .2500": +.0003"/-.0000".

Shank diameter tolerance: +.0000"/-.0010".

For closer tool diameter tolerance pricing, see page 60.

FLUTE FED COOLANT

DECIMAL SIZE RANGE	MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3809 EDP NO.	C.I./STEEL TYPE 3808 EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE						
			FLUTE	OAL			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
.1121 - .1280	.1099	4	5/8	2 1/4	380908	380808	\$286.75	\$259.60	\$250.55	\$246.30	\$241.45	\$237.90	\$232.65
.1281 - .1435	.1255	4	3/4	2 1/2	380909	380809	272.40	245.20	236.25	231.70	227.20	223.50	218.20
.1436 - .1590	.1411	4	3/4	2 1/2	380910	380810	289.60	262.35	253.50	248.95	244.35	240.70	235.30
.1591 - .1750	.1567	4	7/8	2 3/4	380911	380811	292.05	264.90	255.95	251.55	246.90	243.20	237.90
.1751 - .1910	.1724	4	7/8	2 3/4	380912	380812	293.90	266.75	257.70	253.35	248.60	244.95	239.70
.1911 - .2210	.1880	6	1	3	380914	380814	353.15	326.00	316.95	312.60	307.90	304.40	298.95
.2211 - .2530	.2193	6	1	3	380916	380816	357.55	330.30	321.45	316.85	312.25	308.60	303.25
.2531 - .2840	.2505	6	1 1/8	3 1/4	380918	380818	365.15	337.95	329.05	324.60	319.95	316.25	310.90
.2841 - .3150	.2817	6	1 1/8	3 1/4	380920	380820	371.20	344.15	335.10	330.65	326.00	322.25	316.95
.3151 - .3470	.3130	6	1 1/4	3 1/2	380922	380822	394.90	367.70	358.70	354.20	349.60	346.00	340.65
.3471 - .3780	.3443	6	1 1/4	3 1/2	380924	380824	403.25	376.05	367.15	362.65	358.05	354.30	349.00
.3781 - .4090	.3755	6	1 3/8	3 3/4	380926	380826	417.05	389.90	380.85	376.45	371.75	368.15	362.80

SOLID CARBIDE COOLANT FED CHUCKING REAMERS

TYPE 3817 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - BLIND HOLES - FOR NON-FERROUS
TYPE 3816 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - BLIND HOLES - FOR CAST IRON & STEEL

Short length series solid carbide coolant fed chucking reamers.
 Center coolant feeding hole for flushing chips back towards shank.



Tool diameter tolerance thru .2500": +.0002"/-.0000"
 over .2500": +.0003"/-.0000"

Shank diameter tolerance: +.0000"/-.0010"

For closer tool diameter tolerance pricing, see page 60.

CENTER FED COOLANT

DECIMAL SIZE RANGE	MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3817 EDP NO.	C.I./STEEL TYPE 3816 EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE						
			FLUTE	OAL			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
.1121 - .1280	.1099	4	5/8	2 1/4	381708	381608	\$207.80	\$180.50	\$171.60	\$167.15	\$162.50	\$158.90	\$153.45
.1281 - .1435	.1255	4	3/4	2 1/2	381709	381609	209.20	182.05	173.00	168.65	163.80	160.35	155.05
.1436 - .1590	.1411	4	3/4	2 1/2	381710	381610	210.10	182.80	174.00	169.45	164.80	161.20	155.85
.1591 - .1750	.1567	4	7/8	2 3/4	381711	381611	212.10	184.95	176.00	171.45	166.80	163.20	157.75
.1751 - .1910	.1724	4	7/8	2 3/4	381712	381612	220.30	193.15	184.10	179.75	175.00	171.40	166.20
.1911 - .2210	.1880	6	1	3	381714	381614	223.45	196.30	187.25	182.75	178.15	174.55	169.10
.2211 - .2530	.2193	6	1	3	381716	381616	227.25	200.15	191.15	186.55	182.05	178.35	173.00
.2531 - .2840	.2505	6	1 1/8	3 1/4	381718	381618	233.55	206.50	197.45	193.10	188.35	184.55	179.35
.2841 - .3150	.2817	6	1 1/8	3 1/4	381720	381620	238.85	211.80	202.75	198.35	193.60	189.95	184.55
.3151 - .3470	.3130	6	1 1/4	3 1/2	381722	381622	245.45	218.30	209.25	204.80	200.30	196.55	191.25
.3471 - .3780	.3443	6	1 1/4	3 1/2	381724	381624	254.25	226.95	218.00	213.60	208.85	205.25	200.05
.3781 - .4090	.3755	6	1 3/8	3 3/4	381726	381626	265.80	238.70	229.65	225.25	220.50	216.90	211.70

TYPE 3829 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - THROUGH HOLES - FOR NON-FERROUS
TYPE 3828 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - THROUGH HOLES - FOR CAST IRON & STEEL

Short length series solid carbide coolant fed chucking reamers.
 Coolant feeding hole in each flute for flushing chips forward through the hole being reamed.



Tool diameter tolerance thru .2500": +.0002"/-.0000"
 over .2500": +.0003"/-.0000"

Shank diameter tolerance: +.0000"/-.0010"

For closer tool diameter tolerance pricing, see page 60.

FLUTE FED COOLANT

DECIMAL SIZE RANGE	MAX. SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3829 EDP NO.	C.I./STEEL TYPE 3828 EDP NO.	PRICE EACH - FINISHED TO DECIMAL SIZE						
			FLUTE	OAL			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
.1121 - .1280	.1099	4	5/8	2 1/4	382908	382808	\$328.00	\$300.85	\$291.90	\$287.50	\$282.75	\$279.10	\$273.80
.1281 - .1435	.1255	4	3/4	2 1/2	382909	382809	329.80	302.60	293.65	289.35	284.50	280.85	275.55
.1436 - .1590	.1411	4	3/4	2 1/2	382910	382810	330.80	303.60	294.70	290.10	285.60	281.90	276.55
.1591 - .1750	.1567	4	7/8	2 3/4	382911	382811	333.10	305.90	296.95	292.55	287.80	284.30	278.95
.1751 - .1910	.1724	4	7/8	2 3/4	382912	382812	334.65	307.50	298.65	294.05	289.50	285.75	280.45
.1911 - .2210	.1880	6	1	3	382914	382814	432.75	405.65	396.60	392.15	387.40	383.95	378.65
.2211 - .2530	.2193	6	1	3	382916	382816	432.40	405.35	396.30	391.90	387.15	383.50	378.25
.2531 - .2840	.2505	6	1 1/8	3 1/4	382918	382818	439.95	412.85	403.80	399.40	394.65	391.05	385.85
.2841 - .3150	.2817	6	1 1/8	3 1/4	382920	382820	446.10	419.05	410.00	405.65	401.05	397.30	392.00
.3151 - .3470	.3130	6	1 1/4	3 1/2	382922	382822	469.65	442.60	433.55	429.10	424.40	420.80	415.35
.3471 - .3780	.3443	6	1 1/4	3 1/2	382924	382824	478.15	451.10	442.05	437.60	432.90	429.30	424.05
.3781 - .4090	.3755	6	1 3/8	3 3/4	382926	382826	492.25	464.95	456.05	451.55	446.95	443.25	438.00

FEEDS & SPEEDS CHARTS FOR REAMERS - CARBIDE TIPPED

Feeds & speeds are a starting recommendation only. Factors such as machine, fixture and tooling rigidity, horsepower available, coolant application and others will affect the performance significantly. Please read machine operators instructions and use all safety shields and glasses before performing these operations.



$$IPM = RPM * IPR$$

$$RPM = SFPM * 3.82 / \text{Cutter Diameter}$$

CLASSIFICATION	MATERIAL	BRINELL	SPEED IN SFPM	FEED RATE (INCHES PER REVOLUTION)					HOLE DIAMETER IN INCHES			
				GENERAL PURPOSE (G.P.)	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2
NON-FERROUS (SOFT)	ALUMINUM ALLOY - CAST WROUGHT	30 - 150*	150 - 250	.004	.006	.008	.011	.012	.013	.016	.019	.020
	MAGNESIUM ALLOY	50 - 90*	130 - 190	.005	.010	.012	.015	.016	.017	.020	.022	.025
	LEAD ALLOY	10 - 20*	150 - 250	.002	.006	.008	.012	.014	.015	.018	.021	.022
	NON-METAL AND PLASTIC	-	90 - 250	.004	.005	.007	.008	.009	.012	.014	.016	.018
	ZINC ALLOY - DIE CAST	80 - 100	140 - 210	.005	.007	.008	.010	.011	.012	.015	.018	.020
NON-FERROUS (HARD)	ALUMINUM BRONZE	40 - 175	50 - 90	.004	.006	.010	.012	.014	.016	.018	.020	.022
	BRASS ALLOY - LEADED AND FREE CUTTING	10 - 100Rb	100 - 250	.005	.008	.011	.015	.017	.018	.020	.022	.025
	NICKEL SILVER	10 - 100Rb	50 - 90	.004	.006	.008	.010	.011	.012	.014	.015	.016
CAST IRON	COPPER ALLOY - TOUGH	40 - 200*	50 - 90	.005	.006	.008	.010	.011	.012	.014	.016	.017
	DUCTILE CAST IRON - AUSTENITIC	120 - 275	45 - 70	.004	.006	.007	.008	.010	.013	.015	.018	.020
	DUCTILE CAST IRON - FERRITIC	140 - 270	50 - 90	.004	.005	.008	.010	.012	.014	.017	.020	.023
	DUCTILE CAST IRON - MARTENSITIC	270 - 400	35 - 60	.004	.006	.007	.008	.009	.010	.012	.014	.016
	GRAY - PEARLITIC	220 - 320	45 - 70	.004	.006	.008	.009	.010	.012	.014	.018	.020
	GRAY - FERRITIC	120 - 220	65 - 135	.005	.008	.010	.011	.013	.016	.020	.022	.025
LOW CARBON STEELS	MALLEABLE CAST IRON - MARTENSITIC	200 - 320	45 - 70	.004	.006	.008	.010	.012	.013	.015	.018	.025
	LOW AND MEDIUM CARBON STEEL - FREE MACHINING	100 - 250	70 - 100	.005	.008	.010	.012	.014	.015	.020	.025	.030
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON STEEL - WROUGHT	100 - 375	30 - 85	.004	.008	.009	.011	.013	.015	.018	.020	.022
	LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACHINING	100 - 275	65 - 100	.005	.008	.010	.015	.017	.018	.022	.025	.027
	LOW AND MEDIUM CARBON ALLOY STEEL	85 - 375	40 - 85	.005	.010	.012	.015	.018	.020	.025	.027	.030
	STAINLESS STEEL - 400 SERIES	135 - 325	40 - 90	.003	.005	.006	.007	.008	.008	.010	.011	.012
	STAINLESS STEEL - 400 SERIES FREE MACHINING	135 - 275	65 - 100	.004	.006	.007	.008	.009	.009	.010	.011	.012
HIGH STRENGTH STEELS	HIGH STRENGTH STEEL - WROUGHT & TOOL STEEL	175 - 400	35 - 70	.004	.006	.007	.008	.009	.010	.011	.012	.013
HIGH TEMP. ALLOYS	HIGH TEMP ALLOYS NICKEL & IRON BASE ALLOY	140 - 300	15 - 85	.003	.005	.005	.005	.006	.007	.008	.010	.012
	STAINLESS STEEL - 300 SERIES	135 - 375	40 - 75	.003	.004	.005	.006	.006	.007	.008	.009	.010
	STAINLESS STEEL - PH SERIES	150 - 440	35 - 70	.003	.004	.004	.005	.006	.007	.008	.009	.010
	TITANIUM ALLOY	110 - 380	30 - 45	.004	.006	.008	.010	.011	.011	.012	.013	.014

CLASSIFICATION	MATERIAL	BRINELL	SPEED IN SFPM	COOLANT FED (C.F.)	FEED RATE (INCHES PER REVOLUTION)					HOLE DIAMETER IN INCHES		
					1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2
NON-FERROUS (SOFT)	ALUMINUM ALLOY - CAST WROUGHT	30 - 150*	200 - 300	-	.008	.010	.013	.015	.017	.021	.022	.024
	MAGNESIUM ALLOY	50 - 90*	150 - 250	-	.012	.015	.018	.019	.020	.024	.026	.028
	LEAD ALLOY	10 - 20*	200 - 300	-	.008	.010	.016	.017	.018	.022	.024	.026
	NON-METAL AND PLASTIC	-	125 - 300	-	.006	.008	.009	.010	.014	.016	.018	.020
	ZINC ALLOY - DIE CAST	80 - 100	170 - 240	-	.009	.011	.013	.014	.016	.020	.022	.025
NON-FERROUS (HARD)	ALUMINUM BRONZE	40 - 175	70 - 105	-	.008	.013	.015	.016	.018	.021	.024	.028
	BRASS ALLOY - LEADED AND FREE CUTTING	10 - 100Rb	125 - 300	-	.010	.014	.020	.022	.024	.026	.028	.032
	NICKEL SILVER	10 - 100Rb	70 - 190	-	.007	.010	.012	.013	.014	.017	.018	.018
	COPPER ALLOY - TOUGH	40 - 200*	70 - 105	-	.008	.010	.013	.014	.016	.018	.019	.020
CAST IRON	DUCTILE CAST IRON - AUSTENITIC	120 - 275	65 - 100	-	.008	.009	.011	.014	.016	.018	.020	.025
	DUCTILE CAST IRON - FERRITIC	140 - 270	70 - 105	-	.007	.010	.012	.015	.017	.022	.024	.027
	DUCTILE CAST IRON - MARTENSITIC	270 - 400	50 - 85	-	.008	.009	.010	.011	.013	.014	.017	.019
	GRAY - PEARLITIC	220 - 320	55 - 100	-	.008	.010	.012	.014	.015	.018	.020	.026
	GRAY - FERRITIC	120 - 220	95 - 190	-	.010	.013	.014	.017	.020	.024	.028	.030
LOW CARBON STEELS	MALLEABLE CAST IRON - MARTENSITIC	200 - 320	65 - 100	-	.008	.010	.012	.014	.015	.020	.023	.030
	LOW AND MEDIUM CARBON STEEL - FREE MACHINING	100 - 250	100 - 150	-	.012	.014	.016	.018	.020	.025	.030	.035
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON STEEL - WROUGHT	100 - 375	40 - 110	-	.009	.011	.013	.015	.017	.022	.024	.026
	LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACHINING	100 - 275	90 - 135	-	.010	.012	.018	.020	.022	.025	.027	.030
	LOW AND MEDIUM CARBON ALLOY STEEL	85 - 375	65 - 100	-	.012	.015	.018	.022	.024	.028	.030	.033
	STAINLESS STEEL - 400 SERIES	135 - 325	50 - 100	-	.007	.007	.008	.009	.009	.012	.014	.015
HIGH STRENGTH STEELS	STAINLESS STEEL - 400 SERIES FREE MACHINING	135 - 275	90 - 135	-	.008	.009	.010	.011	.012	.013	.013	.014
	HIGH STRENGTH STEEL - WROUGHT & TOOL STEEL	175 - 400	50 - 100	-	.007	.008	.009	.011	.012	.014	.015	.016
HIGH TEMP. ALLOYS	HIGH TEMP ALLOYS NICKEL & IRON BASE ALLOY	140 - 300	20 - 115	-	.006	.007	.007	.008	.008	.010	.012	.015
	STAINLESS STEEL - 300 SERIES	135 - 375	60 - 90	-	.006	.007	.008	.008	.009	.010	.011	.012
	STAINLESS STEEL - PH SERIES	150 - 440	50 - 90	-	.006	.006	.007	.008	.009	.010	.012	.014
	TITANIUM ALLOY	110 - 380	40 - 60	-	.008	.010	.013	.014	.014	.016	.016	.018

CARBIDE TIPPED JOBBERS DRILL LENGTH REAMERS

TYPE 3401 - STRAIGHT SHANK - STRAIGHT FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies. Straight polished flutes.

Designed and manufactured for maximum tool life. Used for all general types of reaming, including low carbon steel, cast iron, non-ferrous metals and non-metals. These shorter length reamers provide increased rigidity and should be used in applications requiring jobbers length drills.



TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	LENGTH			EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT	CARB	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1562	5/32	.151	4	1	1/2	3 1/8	340105	\$89.70	.1560 - .1769	\$143.20	\$116.50	\$107.40	\$103.15	\$98.55	\$94.95
.1719	1/16	.151	4	1	1/2	3 1/4	34011719	89.70	-	-	-	-	-	-	-
.1875	3/16	1/16	4	1 1/8	1/2	3 1/2	340106	86.70	.1770 - .2040	138.75	112.70	103.95	99.70	95.45	91.90
.2031	13/64	1/16	4	1 1/8	1/2	3 5/8	34012031	87.30	-	-	-	-	-	-	-
.2188	7/32	13/64	4	1 1/4	1/2	3 3/4	340107	86.70	.2041 - .2210	138.75	112.70	103.95	99.70	95.45	91.90
.2344	15/64	7/32	4	1 1/2	1/2	3 7/8	34012344	87.30	.2211 - .2380	139.45	113.45	104.45	100.40	95.95	92.35
.2500	1/4	15/64	4	1 1/2	1/2	4	340108	86.70	.2381 - .2530	138.75	112.70	103.95	99.70	95.45	91.90
.2656	17/64	15/64	4	1 1/2	1/2	4 1/8	34012656	88.40	-	-	-	-	-	-	-
.2812	9/32	15/64	4	1 1/2	1/2	4 1/4	340109	87.90	.2531 - .2840	139.95	113.90	105.25	101.00	96.50	93.05
.2969	19/64	9/32	4	1 1/2	1/2	4 3/8	34012969	88.40	-	-	-	-	-	-	-
.3125	5/16	9/32	4	1 1/2	1/2	4 1/2	340110	87.90	.2841 - .3150	139.95	113.90	105.25	101.00	96.50	93.05
.3281	21/64	9/32	4	1 1/2	5/8	4 5/8	34013281	91.05	-	-	-	-	-	-	-
.3438	11/32	9/32	4	1 1/2	5/8	4 3/4	340111	90.05	.3151 - .3470	142.05	115.95	107.30	103.15	98.65	95.10
.3594	23/64	5/16	4	1 3/4	5/8	4 7/8	34013594	91.05	-	-	-	-	-	-	-
.3750	3/8	5/16	4	1 3/4	5/8	5	340112	82.70	.3471 - .3780	130.40	106.45	98.35	94.60	90.60	87.30
.3906	25/64	5/16	4	1 3/4	5/8	5 1/8	34013906	94.50	-	-	-	-	-	-	-
.4062	13/32	5/16	4	1 3/4	5/8	5 1/4	340113	93.00	.3781 - .4090	145.00	118.95	110.15	106.15	101.50	98.05
.4219	27/64	3/8	4	1 3/4	5/8	5 3/8	34014219	94.50	-	-	-	-	-	-	-
.4375	7/16	3/8	4	1 3/4	5/8	5 1/2	340114	97.05	.4091 - .4410	149.10	123.00	114.20	110.05	105.55	102.10
.4531	29/64	3/8	4	1 3/4	5/8	5 5/8	34014531	100.80	-	-	-	-	-	-	-
.4688	15/32	3/8	4	1 3/4	5/8	5 3/4	340115	101.35	.4411 - .4720	153.40	127.30	118.60	114.45	110.00	106.45
.4844	31/64	7/16	6	2	5/8	5 7/8	34014844	107.40	-	-	-	-	-	-	-
.5000	1/2	7/16	6	2	5/8	6	340116	113.85	.4721 - .5030	171.10	142.35	132.85	128.30	123.25	119.40
.5156	33/64	7/16	6	2	5/8	6 5/8	34015156	120.95	-	-	-	-	-	-	-
.5312	17/32	7/16	6	2	5/8	6 5/8	340117	120.95	.5031 - .5340	178.20	149.45	139.95	135.35	130.45	126.65
.5469	35/64	7/16	6	2	5/8	6 5/8	34015469	120.95	-	-	-	-	-	-	-
.5625	9/16	7/16	6	2	5/8	6 5/8	340118	120.95	.5341 - .5660	178.20	149.45	139.95	135.35	130.45	126.65
.5781	37/64	7/16	6	2	5/8	6 5/8	34015781	124.25	-	-	-	-	-	-	-
.5938	19/32	7/16	6	2	5/8	7 1/8	340119	124.25	.5661 - .5970	181.75	153.00	143.40	138.75	133.75	130.10
.6094	39/64	9/16	6	2 1/4	5/8	7 1/8	34016094	124.25	-	-	-	-	-	-	-
.6250	5/8	9/16	6	2 1/4	5/8	7 1/8	340120	124.25	.5971 - .6280	181.75	153.00	143.40	138.75	133.75	130.10
.6406	41/64	9/16	6	2 1/4	5/8	7 1/8	34016406	125.85	-	-	-	-	-	-	-
.6562	21/32	9/16	6	2 1/4	5/8	7 1/8	340121	125.85	.6281 - .6590	183.20	154.55	144.85	140.25	135.35	131.45
.6719	43/64	9/16	6	2 1/4	5/8	7 5/8	34016719	125.85	-	-	-	-	-	-	-
.6875	11/16	9/16	6	2 1/4	5/8	7 5/8	340122	125.85	.6591 - .6910	183.20	154.55	144.85	140.25	135.35	131.45
.7031	45/64	9/16	6	2 1/4	5/8	7 5/8	34017031	130.25	-	-	-	-	-	-	-
.7188	23/32	9/16	6	2 1/4	5/8	7 5/8	340123	130.25	.6911 - .7220	187.50	158.90	149.25	144.65	139.75	135.80
.7344	47/64	5/8	6	2 1/2	3/4	7 5/8	34017344	130.25	-	-	-	-	-	-	-
.7500	3/4	5/8	6	2 1/2	3/4	8	340124	130.25	.7221 - .7530	187.50	158.90	149.25	144.65	139.75	135.80

REAMER EXPEDITE FEES

*Quantities of 15 or more: price of fractional size in same size range.

REAMER DIAMETER	SERVICE	FEE
Up to 1.0000"	24 Hour	\$105.00
Up to 1.0000"	48 Hour	70.00
Over 1.0000"	48 Hour	105.00
Over 1.0000"	72 Hour	70.00

Order must be received by 3:00 PM EST (Exceptions may apply)
 18 pieces max per diameter, 4 diameters max per order, 1 fee per diameter
 Does NOT apply to types 3401, 3431, 3441, 3490, or Variable Length Reamers
 Does NOT require air shipment of the product

REAMER TOLERANCES & CLOSER TOLERANCE PRICING

TOOL TYPE	TOOL DIAMETER TOLERANCES		CLOSER TOLERANCE PRICING			TOOL TYPE	SHANK DIAMETER TOLERANCES (BASED ON TOOL DIAMETER)	
			.0001"	.0002"	.0003"		NAS 897 & COOLANT	UP TO 23/32"	+ .0000"/-.0010"
3480, NAS 897 EXCLUDING COOLANT	.0000" THRU .5000"	+ .0002"/-.0000"	\$4.20	-	-	ALL OTHER REAMERS	OVER 23/32"	+ .0000"/-.0015"
	.5001" THRU .7500"	+ .0003"/-.0000"	4.20	\$1.40	-		ALL SIZES	
	.7501" AND UP	+ .0004"/-.0000"	7.00	4.20	\$1.40		-.0005"/-.0015"	

CARBIDE TIPPED OVER & UNDER SIZE REAMERS

TYPE 3479 - JOBBERS DRILL LENGTH STRAIGHT SHANK & FLUTES

These precision ground carbide tipped reamers are very convenient for finishing accurate holes in most materials.

Same specifications as Type 3401 (pg. 60).

Tool diameter tolerance: +.0002"/-.0000".

TOOL DIAMETER	SHANK DIAM.	NO. OF FLUTES	LENGTH			TYPE 3479 EDP NO.	PRICE EACH
			FLT	CARB	OAL		
.1865	1/64	4	1 1/8	1/2	3 1/2	347918	\$87.30
.1885	1/64	4	1 1/8	1/2	3 1/2	347919	87.30
.2490	15/64	4	1 1/2	1/2	4	347924	87.30
.2510	15/64	4	1 1/2	1/2	4	347925	87.30
.3115	9/32	4	1 1/2	1/2	4 1/2	347931	88.40
.3135	9/32	4	1 1/2	1/2	4 1/2	347932	88.40
.3740	5/16	4	1 3/4	5/8	5	347937	91.05
.3760	5/16	4	1 3/4	5/8	5	347938	91.05
.4365	3/8	4	1 3/4	5/8	5 1/2	347943	100.80
.4385	3/8	4	1 3/4	5/8	5 1/2	347944	100.80
.4990	7/16	6	2	5/8	6	347949	107.40
.5010	7/16	6	2	5/8	6	347950	107.40

TYPE 3478 - REGULAR LENGTH STRAIGHT SHANK & FLUTES

These precision ground carbide tipped reamers are very convenient for finishing accurate holes in most materials.

Same specifications as Type 3400 (pg. 62).

Tool diameter tolerance: +.0002"/-.0000".

TOOL DIAMETER	SHANK DIAM.	NO. OF FLUTES	LENGTH			TYPE 3478 EDP NO.	PRICE EACH
			FLT	CARB	OAL		
.1865	1/64	4	1 1/8	1/2	4 1/2	347818	\$70.15
.1885	1/64	4	1 1/8	1/2	4 1/2	347819	70.15
.2490	15/64	4	1 1/2	1/2	6	347824	70.15
.2510	15/64	4	1 1/2	1/2	6	347825	70.15
.3115	9/32	4	1 1/2	1/2	6	347831	71.65
.3135	9/32	4	1 1/2	1/2	6	347832	71.65
.3740	5/16	4	1 3/4	5/8	7	347837	74.35
.3760	5/16	4	1 3/4	5/8	7	347838	74.35
.4365	3/8	4	1 3/4	5/8	7	347843	83.10
.4385	3/8	4	1 3/4	5/8	7	347844	83.10
.4990	7/16	6	2	5/8	8	347849	91.05
.5010	7/16	6	2	5/8	8	347850	91.05
.6240	9/16	6	2 1/4	5/8	9	347862	109.25
.6260	9/16	6	2 1/4	5/8	9	347863	109.25
.7490	5/8	6	2 1/2	3/4	9 1/2	347874	115.05
.7510	5/8	6	2 1/2	3/4	9 1/2	347875	115.05
.8740	3/4	6	2 5/8	3/4	10	347886	122.25
.8760	3/4	6	2 5/8	3/4	10	347887	126.95
.9990	7/8	8	2 3/4	3/4	10 1/2	347898	150.75
1.0010	7/8	8	2 3/4	3/4	10 1/2	347899	144.50

CARBIDE TIPPED DOWEL PIN SIZE REAMERS

TYPE 3477 - JOBBERS DRILL LENGTH STRAIGHT SHANK & FLUTES

These precision ground carbide tipped reamers accurately finish holes in most materials resulting in properly fitting dowel pins.

Should be used in pairs of .0005" and .0020" under the fractional size.

Note special undersize tolerance.

Same specifications as Type 3401 (pg. 60).

Tool diameter tolerance: +.0000"/-.0002".

TOOL DIAMETER	SHANK DIAM.	NO. OF FLUTES	LENGTH			TYPE 3477 EDP NO.	PRICE EACH
			FLT	CARB	OAL		
.1855	1/64	4	1 1/8	1/2	3 1/2	347717	\$87.30
.1870	1/64	4	1 1/8	1/2	3 1/2	347718	87.30
.2480	15/64	4	1 1/2	1/2	4	347723	87.30
.2495	15/64	4	1 1/2	1/2	4	347724	87.30
.3105	9/32	4	1 1/2	1/2	4 1/2	347730	88.40
.3120	9/32	4	1 1/2	1/2	4 1/2	347731	88.40
.3730	5/16	4	1 3/4	5/8	5	347736	91.05
.3745	5/16	4	1 3/4	5/8	5	347737	91.05
.4355	3/8	4	1 3/4	5/8	5 1/2	347742	100.80
.4370	3/8	4	1 3/4	5/8	5 1/2	347743	100.80
.4980	7/16	6	2	5/8	6	347748	107.40
.4995	7/16	6	2	5/8	6	347749	107.40

TYPE 3476 - REGULAR LENGTH STRAIGHT SHANK & FLUTES

These precision ground carbide tipped reamers accurately finish holes in most materials resulting in properly fitting dowel pins.

Should be used in pairs of .0005" and .0020" under the fractional size.

Note special undersize tolerance.

Same specifications as Type 3400 (pg. 62).

Tool diameter tolerance: +.0000"/-.0002".

TOOL DIAMETER	SHANK DIAM.	NO. OF FLUTES	LENGTH			TYPE 3476 EDP NO.	PRICE EACH
			FLT	CARB	OAL		
.1855	1/64	4	1 1/8	1/2	4 1/2	347617	\$70.15
.1870	1/64	4	1 1/8	1/2	4 1/2	347618	70.15
.2480	15/64	4	1 1/2	1/2	6	347623	70.15
.2495	15/64	4	1 1/2	1/2	6	347624	70.15
.3105	9/32	4	1 1/2	1/2	6	347630	71.65
.3120	9/32	4	1 1/2	1/2	6	347631	71.65
.3730	5/16	4	1 3/4	5/8	7	347636	74.35
.3745	5/16	4	1 3/4	5/8	7	347637	74.35
.4355	3/8	4	1 3/4	5/8	7	347642	83.10
.4370	3/8	4	1 3/4	5/8	7	347643	83.10
.4980	7/16	6	2	5/8	8	347648	91.05
.4995	7/16	6	2	5/8	8	347649	91.05
CASED SET OF ABOVE 12 REAMERS						347600	875.05

CARBIDE TIPPED REGULAR LENGTH CHUCKING REAMERS

TYPE 3400 - STRAIGHT SHANK - STRAIGHT FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies. Straight polished flutes.

Designed and manufactured for maximum tool life. Used for all general types of reaming, including low carbon steels, cast iron, non-ferrous metals and non-metals.



For metric sizes, see page 64.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	LENGTH			EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRAC.			FLT	CARB	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1562	5/32	.151	4	1	1/2	4	340005	\$60.80	.1560 - .1769	\$114.90	\$87.40	\$78.55	\$74.20	\$69.60	\$66.00
.1719	11/64	.151	4	1	1/2	4	34001719	60.80	-	-	-	-	-	-	-
.1875	3/16	11/64	4	1 1/8	1/2	4 1/2	340006	55.70	.1770 - .2040	107.75	81.70	73.10	68.75	64.40	60.85
.1875	3/16	11/64	4	1 1/4	1/2	5	340086	59.00	.1770 - .2040	111.05	85.00	76.50	72.15	67.70	64.15
.2031	13/64	11/64	4	1 1/8	1/2	4 1/2	34002031	59.00	-	-	-	-	-	-	-
.2188	7/32	13/64	4	1 1/4	1/2	5	340007	55.70	.2041 - .2210	107.75	81.70	73.10	68.75	64.40	60.85
.2344	15/64	7/32	4	1 1/2	1/2	6	34002344	59.00	.2211 - .2380	111.05	85.00	76.50	72.15	67.70	64.15
.2500	1/4	15/64	4	1 1/2	1/2	6	340008	55.70	.2381 - .2530	107.75	81.70	73.10	68.75	64.40	60.85
.2656	17/64	15/64	4	1 1/2	1/2	6	34002656	60.30	-	-	-	-	-	-	-
.2812	9/32	15/64	4	1 1/2	1/2	6	340009	56.95	.2531 - .2840	109.00	82.95	74.25	70.05	65.55	62.00
.2969	19/64	9/32	4	1 1/2	1/2	6	34002969	60.30	-	-	-	-	-	-	-
.3125	5/16	9/32	4	1 1/2	1/2	6	340010	56.95	.2841 - .3150	109.00	82.95	74.25	70.05	65.55	62.00
.3281	21/64	9/32	4	1 1/2	5/8	6	34003281	62.55	-	-	-	-	-	-	-
.3438	11/32	9/32	4	1 1/2	5/8	6	340011	58.95	.3151 - .3470	111.00	84.95	76.20	72.05	67.60	64.10
.3594	23/64	5/16	4	1 3/4	5/8	7	34003594	62.55	-	-	-	-	-	-	-
.3750	3/8	5/16	4	1 3/4	5/8	7	340012	58.95	.3471 - .3780	111.00	84.95	76.20	72.05	67.60	64.10
.3906	25/64	5/16	4	1 3/4	5/8	7	34003906	65.75	-	-	-	-	-	-	-
.4062	13/32	5/16	4	1 3/4	5/8	7	340013	61.85	.3781 - .4090	113.90	87.85	79.10	74.90	70.45	67.00
.4219	27/64	3/8	4	1 3/4	5/8	7	34004219	70.00	-	-	-	-	-	-	-
.4375	7/16	3/8	4	1 3/4	5/8	7	340014	66.05	.4091 - .4410	118.10	92.05	83.15	79.10	74.60	71.20
.4531	29/64	3/8	4	1 3/4	5/8	7	34004531	71.15	-	-	-	-	-	-	-
.4688	15/32	3/8	4	1 3/4	5/8	7	340015	67.00	.4411 - .4720	119.05	93.00	84.25	80.00	75.60	72.05
.4844	31/64	7/16	6	2	5/8	8	34004844	76.80	-	-	-	-	-	-	-
.5000	1/2	7/16	6	2	5/8	8	340016	79.65	.4721 - .5030	136.95	108.40	98.65	94.15	89.15	85.25
.5156	33/64	7/16	6	2	5/8	8	34005156	86.70	-	-	-	-	-	-	-
.5312	17/32	7/16	6	2	5/8	8	340017	86.70	.5031 - .5340	144.10	115.45	105.80	101.20	96.20	92.35
.5469	35/64	7/16	6	2	5/8	8	34005469	86.70	-	-	-	-	-	-	-
.5625	9/16	7/16	6	2	5/8	8	340018	86.70	.5341 - .5660	144.10	115.45	105.80	101.20	96.20	92.35
.5781	37/64	7/16	6	2	5/8	8	34005781	90.20	-	-	-	-	-	-	-
.5938	19/32	7/16	6	2	5/8	8	340019	90.20	.5661 - .5970	147.65	118.80	109.25	104.70	99.65	95.95
.6094	39/64	9/16	6	2 1/4	5/8	9	34006094	90.20	-	-	-	-	-	-	-
.6250	5/8	9/16	6	2 1/4	5/8	9	340020	90.20	.5971 - .6280	147.65	118.80	109.25	104.70	99.65	95.95
.6406	41/64	9/16	6	2 1/4	5/8	9	34006406	91.85	-	-	-	-	-	-	-
.6562	21/32	9/16	6	2 1/4	5/8	9	340021	91.85	.6281 - .6590	149.10	120.25	110.75	106.25	101.25	97.40
.6719	43/64	9/16	6	2 1/4	5/8	9	34006719	91.85	-	-	-	-	-	-	-
.6875	11/16	9/16	6	2 1/4	5/8	9	340022	91.85	.6591 - .6910	149.10	120.25	110.75	106.25	101.25	97.40
.7031	45/64	9/16	6	2 1/4	5/8	9	34007031	96.10	-	-	-	-	-	-	-
.7188	23/32	9/16	6	2 1/4	5/8	9	340023	96.10	.6911 - .7220	153.40	124.80	115.05	110.60	105.55	101.80
.7344	47/64	5/8	6	2 1/2	3/4	9 1/2	34007344	96.10	-	-	-	-	-	-	-
.7500	3/4	5/8	6	2 1/2	3/4	9 1/2	340024	96.10	.7221 - .7530	153.40	124.80	115.05	110.60	105.55	101.80

CARBIDE TIPPED SEMI-FINISHED REAMERS

Semi-finished reamers are furnished with a tool diameter above the largest diameter indicated in the size range column below.

Before semi-finished reamers can be used, the tool diameter must be finished ground and relieved. The reamer end must be faced and chamfered.

Semi-finished reamers are used by regrind shops or distributors and users with regrind facilities.

For detailed description of each specific type, see page indicated in table below.

Call for pricing on Types 3420 & 3467 semi-finished reamers.



SEMI-FINISHED TOOL DIAMETER RANGE	TYPE 3400 PAGE 62		TYPE 3402 PAGE 70		TYPE 3410 PAGE 82		TYPE 3430 PAGE 90	TYPE 3440 PAGE 90	BOTH TYPES PRICE	TYPE 3450 PAGE 72		TYPE 3465 PAGE 86	
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	EDP NO.	EDP NO.		EDP NO.	PRICE EACH	EDP NO.	PRICE EACH
.1770 - .2040	340006SE	\$47.45	-	-	341006SE	\$66.85	343006SE	344006SE	\$61.85	345006SE	\$56.80	-	-
.2041 - .2210	340007SE	47.45	-	-	341007SE	66.85	343007SE	344007SE	61.85	345007SE	56.80	-	-
.2211 - .2380	34002344SE	50.15	-	-	34102344SE	66.85	34302344SE	34402344SE	61.85	34502344SE	56.80	-	-
.2381 - .2530	340008SE	47.45	340208SE	\$54.75	341008SE	66.85	343008SE	344008SE	61.85	345008SE	56.80	-	-
.2531 - .2840	340009SE	48.35	340209SE	55.55	341009SE	67.00	343009SE	344009SE	61.85	345009SE	58.10	-	-
.2841 - .3150	340010SE	48.35	340210SE	55.55	341010SE	67.00	343010SE	344010SE	71.80	345010SE	58.10	346510SE	\$87.60
.3151 - .3470	340011SE	50.05	340211SE	57.65	341011SE	73.65	343011SE	344011SE	72.60	345011SE	60.10	346511SE	87.60
.3471 - .3780	340012SE	45.90	340212SE	52.95	341012SE	74.35	343012SE	344012SE	78.65	345012SE	60.10	346512SE	81.95
.3781 - .4090	340013SE	52.50	340213SE	60.40	341013SE	77.70	343013SE	344013SE	79.65	345013SE	63.00	346513SE	86.90
.4091 - .4410	340014SE	55.95	340214SE	64.40	341014SE	80.80	343014SE	344014SE	94.50	345014SE	68.20	346514SE	86.90
.4411 - .4720	340015SE	56.95	340215SE	66.25	341015SE	85.85	343015SE	344015SE	94.50	345015SE	73.65	346515SE	92.20
.4721 - .5030	340016SE	67.85	340216SE	77.90	341016SE	89.05	343016SE	344016SE	103.30	345016SE	79.05	346516SE	92.20
.5031 - .5340	340017SE	73.65	340217SE	84.25	341017SE	91.85	343017SE	344017SE	103.30	345017SE	81.00	346517SE	94.50
.5341 - .5660	340018SE	73.65	340218SE	84.25	341018SE	91.85	343018SE	344018SE	109.00	345018SE	81.00	346518SE	94.50
.5661 - .5970	340019SE	76.65	340219SE	88.05	341019SE	94.50	343019SE	344019SE	109.00	345019SE	84.40	346519SE	98.65
.5971 - .6280	340020SE	76.65	340220SE	88.05	341020SE	94.50	343020SE	344020SE	111.90	345020SE	84.40	346520SE	98.65
.6281 - .6590	340021SE	77.95	340221SE	89.75	341021SE	97.20	343021SE	344021SE	111.90	345021SE	85.85	346521SE	107.90
.6591 - .6910	340022SE	77.95	340222SE	89.75	341022SE	103.55	343022SE	344022SE	117.05	345022SE	85.85	346522SE	107.90
.6911 - .7220	340023SE	81.65	340223SE	93.90	341023SE	104.95	343023SE	344023SE	117.05	345023SE	89.75	346523SE	112.05
.7221 - .7530	340024SE	81.65	340224SE	93.90	341024SE	106.60	343024SE	344024SE	120.05	345024SE	89.75	346524SE	112.05
.7531 - .7840	340025SE	84.45	340225SE	96.65	341025SE	109.30	343025SE	344025SE	120.05	345025SE	92.75	346525SE	120.80
.7841 - .8160	340026SE	84.45	340226SE	96.65	341026SE	109.30	343026SE	344026SE	130.40	345026SE	92.75	346526SE	120.80
.8161 - .8470	340027SE	87.85	340227SE	100.95	341027SE	115.20	343027SE	344027SE	130.40	345027SE	96.50	346527SE	125.40
.8471 - .8780	340028SE	91.05	340228SE	104.70	341028SE	119.65	343028SE	344028SE	142.50	345028SE	100.25	346528SE	130.15
.8781 - .9090	340029SE	106.30	340229SE	122.85	341029SE	139.45	343029SE	344029SE	142.50	345029SE	116.65	346529SE	138.50
.9091 - .9410	340030SE	106.30	340230SE	122.85	341030SE	139.45	343030SE	344030SE	156.90	345030SE	116.65	346530SE	138.50
.9411 - .9720	340031SE	111.30	340231SE	127.85	341031SE	146.10	343031SE	344031SE	156.90	345031SE	122.25	346531SE	143.85
.9721 - 1.0030	340032SE	111.30	340232SE	127.85	341032SE	146.10	343032SE	344032SE	164.70	345032SE	122.25	346532SE	143.85
1.0031 - 1.0660	340034SE	115.00	340234SE	175.75	341034SE	156.85	343034SE	344034SE	164.70	345034SE	126.55	346534SE	157.75
1.0661 - 1.1280	340036SE	124.40	340236SE	187.25	341036SE	161.65	343036SE	344036SE	192.70	345036SE	136.80	346536SE	157.75
1.1281 - 1.1905	340038SE	130.60	340238SE	198.45	341038SE	169.80	343038SE	344038SE	200.90	345038SE	143.10	346538SE	172.10
1.1906 - 1.2530	340040SE	138.05	340240SE	220.45	341040SE	179.80	343040SE	344040SE	235.45	345040SE	167.15	346540SE	172.10
1.2531 - 1.3155	340042SE	145.25	340242SE	237.75	341042SE	198.85	343042SE	344042SE	235.45	345042SE	167.15	346542SE	190.85
1.3156 - 1.3780	340044SE	154.15	340244SE	247.25	341044SE	218.00	343044SE	344044SE	238.70	345044SE	169.55	346544SE	199.75
1.3781 - 1.4405	340046SE	171.95	340246SE	252.50	341046SE	230.85	343046SE	344046SE	278.30	345046SE	187.35	346546SE	235.95
1.4406 - 1.5030	340048SE	181.75	340248SE	265.00	341048SE	243.90	343048SE	344048SE	334.25	345048SE	224.95	346548SE	243.00

CARBIDE TIPPED CHUCKING REAMERS

TYPE 3402 - TAPER SHANK - STRAIGHT FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies. Straight polished flutes.

Designed and manufactured for maximum tool life. Used for all general types of reaming including low carbon steels, cast iron, non-ferrous metals and non-metals.



For metric sizes, see page 71.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MORSE TAPER	NO. OF FLUTES	LENGTH			EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRAC.			FLT	CARB	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	1	4	1 1/2	1/2	6	340208	\$64.25	.2381 - .2530	\$116.20	\$90.20	\$81.55	\$77.40	\$73.05	\$69.50
.2812	9/32	1	4	1 1/2	1/2	6	340209	65.45	.2531 - .2840	117.50	91.45	82.80	78.55	74.20	70.50
.3125	5/16	1	4	1 1/2	1/2	6	340210	65.45	.2841 - .3150	117.50	91.45	82.80	78.55	74.20	70.50
.3438	11/32	1	4	1 1/2	5/8	6	340211	67.90	.3151 - .3470	119.95	93.90	85.10	80.95	76.55	73.10
.3750	3/8	1	4	1 3/4	5/8	7	340212	62.30	.3471 - .3780	110.05	86.15	78.05	74.35	70.20	67.00
.4062	13/32	1	4	1 3/4	5/8	7	340213	71.30	.3781 - .4090	123.25	97.20	88.40	84.40	79.85	76.35
.4375	7/16	1	4	1 3/4	5/8	7	340214	75.80	.4091 - .4410	127.85	101.80	93.05	88.90	84.45	80.85
.4688	15/32	1	4	1 3/4	5/8	7	340215	77.80	.4411 - .4720	129.90	103.80	95.05	90.90	86.45	82.95
.5000	1/2	1	6	2	5/8	8	340216	91.65	.4721 - .5030	148.95	120.20	110.70	106.15	101.20	97.35
.5312	17/32	1	6	2	5/8	8	340217	99.05	.5031 - .5340	156.30	127.45	117.90	113.45	108.45	104.45
.5625	9/16	1	6	2	5/8	8	340218	99.05	.5341 - .5660	156.30	127.45	117.90	113.45	108.45	104.45
.5938	19/32	1	6	2	5/8	8	340219	103.70	.5661 - .5970	161.05	132.30	122.70	118.20	113.15	109.40
.6250	5/8	2	6	2 1/4	5/8	9	340220	103.70	.5971 - .6280	161.05	132.30	122.70	118.20	113.15	109.40
.6562	21/32	2	6	2 1/4	5/8	9	340221	105.55	.6281 - .6590	162.80	134.20	124.65	120.05	115.05	111.15
.6875	11/16	2	6	2 1/4	5/8	9	340222	105.55	.6591 - .6910	162.80	134.20	124.65	120.05	115.05	111.15
.7188	23/32	2	6	2 1/4	5/8	9	340223	110.40	.6911 - .7220	167.70	138.90	129.30	124.85	119.95	115.95
.7500	3/4	2	6	2 1/2	3/4	9 1/2	340224	110.40	.7221 - .7530	167.70	138.90	129.30	124.85	119.95	115.95
.7812	25/32	2	6	2 1/2	3/4	9 1/2	340225	113.85	.7531 - .7840	171.10	142.35	132.85	128.30	123.25	119.40
.8125	13/16	2	6	2 1/2	3/4	9 1/2	340226	113.85	.7841 - .8160	171.10	142.35	132.85	128.30	123.25	119.40
.8438	27/32	2	6	2 1/2	3/4	9 1/2	340227	118.75	.8161 - .8470	176.00	147.25	137.75	133.15	128.30	124.25
.8750	7/8	2	6	2 5/8	3/4	10	340228	123.25	.8471 - .8780	182.60	152.90	142.95	138.05	133.05	129.00
.9062	29/32	2	6	2 5/8	3/4	10	340229	144.55	.8781 - .9090	203.90	174.05	164.20	159.35	154.35	150.30
.9375	19/16	3	8	2 5/8	3/4	10	340230	144.55	.9091 - .9410	203.90	174.05	164.20	159.35	154.35	150.30
.9688	31/32	3	8	2 5/8	3/4	10	340231	150.70	.9411 - .9720	210.00	180.20	170.15	165.50	160.45	156.35
1.0000	1	3	8	2 3/4	3/4	10 1/2	340232	150.70	.9721 - 1.0030	210.00	180.20	170.15	165.50	160.45	156.35
1.0625	1 1/16	3	8	2 3/4	3/4	10 1/2	340234	206.80	1.0031 - 1.0660	263.85	235.30	225.80	221.20	216.25	212.40
1.1250	1 1/8	3	8	2 7/8	7/8	11	340236	220.35	1.0661 - 1.1280	277.30	248.65	239.20	234.55	229.80	225.95
1.1875	1 3/16	3	8	2 7/8	7/8	11	340238	233.40	1.1281 - 1.1905	290.50	261.75	252.35	247.60	242.75	239.00
1.2500	1 1/4	4	8	3	7/8	11 1/2	340240	259.40	1.1906 - 1.2530	316.35	287.75	278.25	273.55	268.80	264.90
1.3125	1 3/16	4	8	3	7/8	11 1/2	340242	279.60	1.2531 - 1.3155	336.55	308.05	298.50	293.95	289.05	285.20
1.3750	1 3/8	4	8	3 1/4	7/8	12	340244	290.90	1.3156 - 1.3780	347.90	319.30	309.80	305.30	300.30	296.65
1.4375	1 7/16	4	8	3 1/4	7/8	12	340246	296.95	1.3781 - 1.4405	353.95	325.55	315.80	311.35	306.30	302.55
1.5000	1 1/2	4	8	3 1/2	7/8	12 1/2	340248	311.75	1.4406 - 1.5030	368.75	340.35	330.65	326.15	321.15	317.35
1.5625	1 9/16	4	8	3 1/2	7/8	12 1/2	340250	336.50	1.5031 - 1.5660	393.45	365.00	355.35	350.85	345.90	342.10
1.6250	1 5/8	4	8	3 3/4	7/8	13	340252	348.05	1.5661 - 1.6280	405.15	376.65	367.00	362.50	357.65	353.75
1.6875	1 11/16	4	8	3 3/4	7/8	13	340254	391.45	1.6281 - 1.6910	448.50	419.90	410.45	405.70	401.05	397.20
1.7500	1 3/4	4	10	4	7/8	13 1/2	340256	391.45	1.6911 - 1.7530	448.50	419.90	410.45	405.70	401.05	397.20
1.8125	1 13/16	4	10	4	7/8	13 1/2	340258	391.45	1.7531 - 1.8160	448.50	419.90	410.45	405.70	401.05	397.20
1.8750	1 7/8	4	10	4 1/4	7/8	14	340260	410.25	1.8161 - 1.8780	467.10	438.60	429.00	424.40	419.65	415.75
1.9375	1 15/16	4	10	4 1/4	7/8	14	340262	410.25	1.8781 - 1.9410	467.10	438.60	429.00	424.40	419.65	415.75
2.0000	2	4	12	4 1/4	7/8	14	340264	410.25	1.9411 - 2.0030	467.10	438.60	429.00	424.40	419.65	415.75

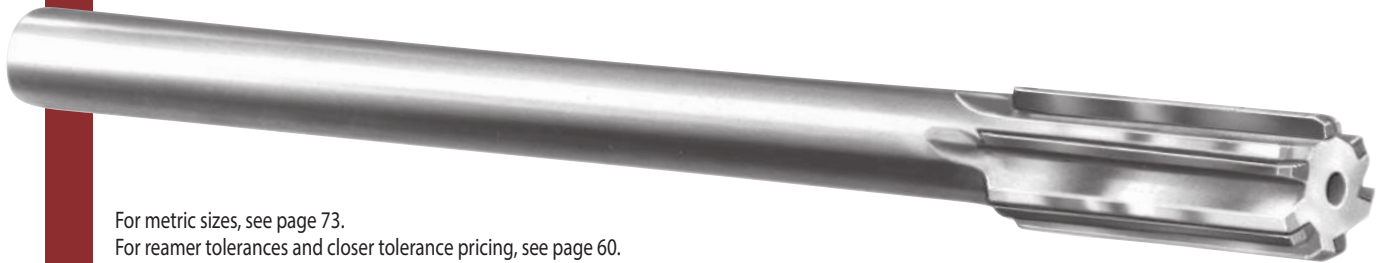
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CARBIDE TIPPED CHUCKING REAMERS

TYPE 3450 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE

Flute long carbide tips brazed to one piece hardened alloy steel bodies.
Straight polished flutes.

Designed and manufactured for maximum tool life. Used for all general types of reaming including low carbon steels, cast iron, non-ferrous metals and non-metals. Designed with flute long carbide for deep hole reaming. Smaller sizes available in solid carbide. See pages 50 through 56.



For metric sizes, see page 73.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	LENGTH		EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRAC.			FLUTE	OVERALL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1875	3/16	1 1/64	4	1 1/2	6	345006	\$66.70	.1770 - .2040	\$120.20	\$93.35	\$84.60	\$80.25	\$75.60	\$71.95
.2188	7/32	13/64	4	1 1/2	6	345007	66.70	.2041 - .2210	120.20	93.35	84.60	80.25	75.60	71.95
.2344	15/64	7/32	4	1 1/2	6	34502344	66.70	.2211 - .2380	120.20	93.35	84.60	80.25	75.60	71.95
.2500	1/4	15/64	4	1 1/2	6	345008	66.70	.2381 - .2530	120.20	93.35	84.60	80.25	75.60	71.95
.2812	9/32	15/64	4	1 1/2	6	345009	68.20	.2531 - .2840	121.65	94.80	85.90	81.65	76.95	73.45
.3125	5/16	9/32	4	1 1/2	6	345010	68.20	.2841 - .3150	121.65	94.80	85.90	81.65	76.95	73.45
.3438	11/32	9/32	4	1 1/2	6	345011	70.60	.3151 - .3470	124.10	97.40	88.30	84.15	79.50	75.90
.3750	3/8	5/16	4	1 3/4	7	345012	70.60	.3471 - .3780	124.10	97.40	88.30	84.15	79.50	75.90
.4062	13/32	5/16	4	1 3/4	7	345013	74.20	.3781 - .4090	127.55	100.95	91.90	87.70	83.00	79.40
.4375	7/16	3/8	4	1 3/4	7	345014	80.25	.4091 - .4410	133.70	106.85	97.90	93.75	89.05	85.45
.4688	15/32	3/8	4	1 3/4	7	345015	86.60	.4411 - .4720	140.10	113.45	104.30	100.05	95.50	91.90
.5000	1/2	7/16	6	2	8	345016	92.75	.4721 - .5030	150.10	121.40	111.90	107.25	102.40	98.35
.5312	17/32	7/16	6	2	8	345017	95.45	.5031 - .5340	152.75	124.00	114.45	109.75	104.85	101.00
.5625	9/16	7/16	6	2	8	345018	95.45	.5341 - .5660	152.75	124.00	114.45	109.75	104.85	101.00
.5938	19/32	7/16	6	2	8	345019	99.20	.5661 - .5970	156.45	127.60	118.20	113.65	108.60	104.80
.6250	5/8	9/16	6	2	9	345020	99.20	.5971 - .6280	156.45	127.60	118.20	113.65	108.60	104.80
.6562	21/32	9/16	6	2	9	345021	100.95	.6281 - .6590	158.20	129.55	119.95	115.45	110.40	106.55
.6875	11/16	9/16	6	2	9	345022	100.95	.6591 - .6910	158.20	129.55	119.95	115.45	110.40	106.55
.7188	23/32	9/16	6	2	9	345023	105.55	.6911 - .7220	162.80	134.20	124.65	120.05	115.05	111.15
.7500	3/4	5/8	6	2	9 1/2	345024	105.55	.7221 - .7530	162.80	134.20	124.65	120.05	115.05	111.15
.7812	25/32	5/8	6	2	9 1/2	345025	109.25	.7531 - .7840	166.50	137.80	128.30	123.70	118.75	114.90
.8125	13/16	5/8	6	2	9 1/2	345026	109.25	.7841 - .8160	166.50	137.80	128.30	123.70	118.75	114.90
.8438	27/32	5/8	6	2	9 1/2	345027	113.65	.8161 - .8470	170.95	142.10	132.55	127.95	123.10	119.10
.8750	7/8	3/4	6	2 1/4	10	345028	117.90	.8471 - .8780	177.30	147.65	137.60	132.75	127.60	123.70
.9062	29/32	3/4	6	2 1/4	10	345029	137.20	.8781 - .9090	196.60	166.85	156.90	152.15	147.10	143.05
.9375	15/16	3/4	8	2 1/4	10	345030	137.20	.9091 - .9410	196.60	166.85	156.90	152.15	147.10	143.05
.9688	31/32	3/4	8	2 1/4	10	345031	143.70	.9411 - .9720	203.20	173.45	163.50	158.75	153.60	149.60
1.0000	1	7/8	8	2 1/4	10 1/2	345032	143.70	.9721 - 1.0030	203.20	173.45	163.50	158.75	153.60	149.60
1.0625	1 1/16	7/8	8	2 1/4	10 1/2	345034	148.80	1.0031 - 1.0660	205.80	177.15	167.65	163.05	158.20	154.35
1.1250	1 1/8	7/8	8	2 1/4	11	345036	160.95	1.0661 - 1.1280	217.90	189.50	179.80	175.30	170.30	166.50
1.1875	1 3/16	1	8	2 1/4	11	345038	168.40	1.1281 - 1.1905	225.35	196.85	187.35	182.75	177.85	174.00
1.2500	1 1/4	1	8	2 1/2	11 1/2	345040	196.60	1.1906 - 1.2530	253.55	225.10	215.45	210.95	206.05	202.15
1.3125	1 5/16	1	8	2 1/2	11 1/2	345042	196.60	1.2531 - 1.3155	253.55	225.10	215.45	210.95	206.05	202.15
1.3750	1 3/8	1	8	2 1/2	12	345044	199.50	1.3156 - 1.3780	256.45	227.95	218.30	213.85	208.95	205.05
1.4375	1 7/16	1 1/4	8	2 1/2	12	345046	220.45	1.3781 - 1.4405	277.45	248.75	239.30	234.80	229.85	226.05
1.5000	1 1/2	1 1/4	8	2 1/2	12 1/2	345048	264.60	1.4406 - 1.5030	321.55	292.95	283.55	278.95	274.00	270.25
1.5625	1 9/16	1 1/4	8	2 1/2	12 1/2	345050	349.30	1.5031 - 1.5660	406.25	377.65	368.15	363.55	358.70	354.90
1.6250	1 5/8	1 1/4	8	2 3/4	13	345052	361.15	1.5661 - 1.6280	418.20	389.45	380.05	375.60	370.60	366.75
1.6875	1 11/16	1 1/4	8	2 3/4	13	345054	396.50	1.6281 - 1.6910	453.60	425.10	415.60	410.90	406.10	402.25
1.7500	1 3/4	1 1/4	10	3	13 1/2	345056	396.50	1.6911 - 1.7530	453.60	425.10	415.60	410.90	406.10	402.25
1.8125	1 13/16	1 1/2	10	3	13 1/2	345058	405.70	1.7531 - 1.8160	462.90	434.40	424.65	420.20	415.20	411.45
1.8750	1 7/8	1 1/2	10	3 1/4	14	345060	425.55	1.8161 - 1.8780	482.50	453.90	444.50	439.90	434.90	431.15
1.9375	1 15/16	1 1/2	10	3 1/4	14	345062	451.25	1.8781 - 1.9410	508.10	479.50	470.00	465.50	460.65	456.75
2.0000	2	1 1/2	12	3 1/4	14	345064	451.25	1.9411 - 2.0030	508.10	479.50	470.00	465.50	460.65	456.75

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CARBIDE TIPPED CHUCKING REAMERS FOR STEEL

TYPE 3480 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE

Flute long carbide tips brazed to one piece hardened alloy steel bodies.
Straight polished flutes.

Designed and manufactured for reaming accurate holes in steel, tough steel alloys and cast steels. Steel grade carbide is used in a full flute design with special steel cutting geometry that results in excellent performance and maximum tool life. Fast cutting to close tolerance.



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MAX SHANK DIAM.	NO. OF FLUTES	LENGTH		EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLUTE	OVERALL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1875	3/16	.1805	4	1 1/8	4 1/2	348006	\$80.00	.1770 - .2040	\$133.50	\$106.75	\$97.75	\$93.50	\$89.00	\$85.25
.2031	13/64	.1805	4	1 1/8	4 1/2	34802031	80.00	-	-	-	-	-	-	-
.2188	7/32	.2075	4	1 1/4	5	348007	80.00	.2041 - .2210	133.50	106.75	97.75	93.50	89.00	85.25
.2344	15/64	.2265	4	1 1/2	6	34802344	80.00	.2211 - .2380	133.50	106.75	97.75	93.50	89.00	85.25
.2500	1/4	.2405	4	1 1/2	6	348008	80.00	.2381 - .2530	133.50	106.75	97.75	93.50	89.00	85.25
.2656	17/64	.2485	4	1 1/2	6	34802656	81.80	-	-	-	-	-	-	-
.2812	9/32	.2485	4	1 1/2	6	348009	81.80	.2531 - .2840	135.20	108.55	99.50	95.35	90.70	87.15
.2969	19/64	.2792	4	1 1/2	6	34802969	81.80	-	-	-	-	-	-	-
.3125	5/16	.2792	4	1 1/2	6	348010	81.80	.2841 - .3150	135.20	108.55	99.50	95.35	90.70	87.15
.3281	21/64	.2792	4	1 1/2	6	34803281	84.75	-	-	-	-	-	-	-
.3438	11/32	.2792	4	1 1/2	6	348011	84.75	.3151 - .3470	138.35	111.35	102.50	98.20	93.75	90.05
.3594	23/64	.3105	4	1 3/4	7	34803594	84.75	-	-	-	-	-	-	-
.3750	3/8	.3105	4	1 3/4	7	348012	84.75	.3471 - .3780	138.35	111.35	102.50	98.20	93.75	90.05
.3906	25/64	.3105	4	1 3/4	7	34803906	89.00	-	-	-	-	-	-	-
.4062	13/32	.3105	4	1 3/4	7	348013	89.00	.3781 - .4090	142.35	115.65	106.70	102.40	97.75	94.15
.4219	27/64	.3730	6	1 3/4	7	34804219	103.00	-	-	-	-	-	-	-
.4375	7/16	.3730	6	1 3/4	7	348014	103.00	.4091 - .4410	156.50	129.70	120.80	116.60	112.00	108.40
.4531	29/64	.3730	6	1 3/4	7	34804531	103.95	-	-	-	-	-	-	-
.4688	15/32	.3730	6	1 3/4	7	348015	103.95	.4411 - .4720	157.60	130.60	121.80	117.50	112.85	109.30
.4844	31/64	.4355	6	2	8	34804844	111.35	-	-	-	-	-	-	-
.5000	1/2	.4355	6	2	8	348016	111.35	.4721 - .5030	168.80	140.05	130.45	125.85	120.95	117.10
.5156	33/64	.4355	6	2	8	34805156	114.60	-	-	-	-	-	-	-
.5312	17/32	.4355	6	2	8	348017	114.60	.5031 - .5340	171.95	143.20	133.50	129.00	124.10	120.20
.5469	35/64	.4355	6	2	8	34805469	114.60	-	-	-	-	-	-	-
.5625	9/16	.4355	6	2	8	348018	114.60	.5341 - .5660	171.95	143.20	133.50	129.00	124.10	120.20
.5781	37/64	.4355	6	2	8	34805781	118.95	-	-	-	-	-	-	-
.5938	19/32	.4355	6	2	8	348019	118.95	.5661 - .5970	176.30	147.65	137.90	133.35	128.45	124.65
.6094	39/64	.5615	6	2 1/4	9	34806094	118.95	-	-	-	-	-	-	-
.6250	5/8	.5615	6	2 1/4	9	348020	118.95	.5971 - .6280	176.30	147.65	137.90	133.35	128.45	124.65
.6406	41/64	.5615	6	2 1/4	9	34806406	121.20	-	-	-	-	-	-	-
.6562	21/32	.5615	6	2 1/4	9	348021	121.20	.6281 - .6590	178.60	149.75	140.10	135.60	130.60	126.85
.6719	43/64	.5615	6	2 1/4	9	34806719	121.20	-	-	-	-	-	-	-

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TOOL DIAMETER		MAX SHANK DIAM.	NO. OF FLUTES	LENGTH		EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLUTE	OVERALL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.6875	11/16	.5615	6	2 1/4	9	348022	\$121.20	.6591 - .6910	\$178.60	\$149.75	\$140.10	\$135.60	130.60	\$126.85
.7031	45/64	.5615	6	2 1/4	9	34807031	126.70	-	-	-	-	-	-	-
.7188	23/32	.5615	6	2 1/4	9	348023	126.70	.6911 - .7220	184.05	155.20	145.80	141.20	136.20	132.30
.7344	47/64	.6245	6	2 1/2	9 1/2	34807344	126.70	-	-	-	-	-	-	-
.7500	3/4	.6245	6	2 1/2	9 1/2	348024	126.70	.7221 - .7530	184.05	155.20	145.80	141.20	136.20	132.30
.7656	49/64	.6245	6	2 1/2	9 1/2	34807656	131.15	-	-	-	-	-	-	-
.7812	25/32	.6245	6	2 1/2	9 1/2	348025	131.15	.7531 - .7840	188.35	159.60	150.00	145.35	140.50	136.60
.7969	51/64	.6245	6	2 1/2	9 1/2	34807969	131.15	-	-	-	-	-	-	-
.8125	13/16	.6245	6	2 1/2	9 1/2	348026	131.15	.7841 - .8160	188.35	159.60	150.00	145.35	140.50	136.60
.8281	53/64	.6245	6	2 1/2	9 1/2	34808281	136.35	-	-	-	-	-	-	-
.8438	27/32	.6245	6	2 1/2	9 1/2	348027	136.35	.8161 - .8470	193.55	164.80	155.20	150.75	145.85	141.90
.8594	55/64	.7495	6	2 5/8	10	34808594	136.35	-	-	-	-	-	-	-
.8750	7/8	.7495	6	2 5/8	10	348028	141.55	.8471 - .8780	200.80	171.10	161.10	156.35	151.25	147.25
.8906	57/64	.7495	6	2 5/8	10	34808906	164.70	-	-	-	-	-	-	-
.9062	29/32	.7495	6	2 5/8	10	348029	164.70	.8781 - .9090	224.20	194.45	184.35	179.60	174.55	170.45
.9219	59/64	.7495	8	2 5/8	10	34809219	164.70	-	-	-	-	-	-	-
.9375	15/16	.7495	8	2 5/8	10	348030	164.70	.9091 - .9410	224.20	194.45	184.35	179.60	174.55	170.45
.9531	61/64	.7495	8	2 5/8	10	34809531	172.60	-	-	-	-	-	-	-
.9688	31/32	.7495	8	2 5/8	10	348031	172.60	.9411 - .9720	232.10	202.35	192.25	187.50	182.45	178.35
.9844	63/64	.8745	8	2 3/4	10 1/2	34809844	172.60	-	-	-	-	-	-	-
1.0000	1	.8745	8	2 3/4	10 1/2	348032	172.60	.9721 - 1.0030	232.10	202.35	192.25	187.50	182.45	178.35
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	348034	178.45	1.0031 - 1.0660	235.45	206.80	197.35	192.75	187.85	184.10
1.1250	1 1/8	.8745	8	2 7/8	11	348036	193.30	1.0661 - 1.1280	250.25	221.65	212.10	207.65	202.75	198.85
1.1875	1 3/16	.9995	8	2 7/8	11	348038	211.70	1.1281 - 1.1905	268.75	240.05	230.55	226.05	221.15	217.30
1.2500	1 1/4	.9995	8	3	11 1/2	348040	235.95	1.1906 - 1.2530	292.90	264.30	254.70	250.25	245.35	241.45
1.3125	1 5/16	.9995	8	3	11 1/2	348042	235.95	1.2531 - 1.3155	292.90	264.30	254.70	250.25	245.35	241.45
1.3750	1 3/8	.9995	8	3 1/4	12	348044	239.40	1.3156 - 1.3780	296.35	267.80	258.30	253.80	248.75	245.05
1.4375	1 7/16	.9995	8	3 1/4	12	348046	264.50	1.3781 - 1.4405	321.45	292.90	283.45	278.80	273.85	270.20
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	348048	317.55	1.4406 - 1.5030	374.60	346.00	336.50	331.90	327.15	323.15

*Quantities of 15 or more: price of fractional size in same size range.

CARBIDE TIPPED OVER & UNDER SIZE REAMERS FOR STEEL

TYPE 3488 - STRAIGHT SHANK STRAIGHT FLUTE LONG CARBIDE

These precision ground carbide tipped reamers are very convenient for finishing accurate holes in most steels.

Tool diameter tolerance: +.0002"/-.0000".

TOOL DIAMETER	MAX SHANK DIAM.	NO. OF FLUTES	LENGTH		TYPE 3488 EDP NO.	PRICE EACH
			FLUTE	OVERALL		
.1865	.1805	4	1 1/8	4 1/2	348818	\$100.05
.1885	.1805	4	1 1/8	4 1/2	348819	100.05
.2490	.2405	4	1 1/2	6	348824	100.05
.2510	.2405	4	1 1/2	6	348825	100.05
.3115	.2792	4	1 1/2	6	348831	101.85
.3135	.2792	4	1 1/2	6	348832	101.85
.3740	.3105	4	1 3/4	7	348837	104.80
.3760	.3105	4	1 3/4	7	348838	104.80
.4365	.3730	6	1 3/4	7	348843	123.10
.4385	.3730	6	1 3/4	7	348844	123.10
.4990	.4355	6	2	8	348849	132.90
.5010	.4355	6	2	8	348850	132.90
CASED SET OF ABOVE 12 REAMERS					348800	1259.35

CARBIDE TIPPED DOWEL PIN SIZE REAMERS FOR STEEL

TYPE 3486 - STRAIGHT SHANK STRAIGHT FLUTE LONG CARBIDE

These precision ground carbide tipped reamers accurately finish dowel pin holes in most steels. Should be used in pairs .0005" and .0020" under the fractional size. Note special undersize tolerance.

Tool diameter tolerance: +.0000"/-.0002".

TOOL DIAMETER	MAX SHANK DIAM.	NO. OF FLUTES	LENGTH		TYPE 3486 EDP NO.	PRICE EACH
			FLUTE	OVERALL		
.1855	.1805	4	1 1/8	4 1/2	348617	\$100.05
.1870	.1805	4	1 1/8	4 1/2	348618	100.05
.2480	.2405	4	1 1/2	6	348623	100.05
.2495	.2405	4	1 1/2	6	348624	100.05
.3105	.2792	4	1 1/2	6	348630	101.85
.3120	.2792	4	1 1/2	6	348631	101.85
.3730	.3105	4	1 3/4	7	348636	104.80
.3745	.3105	4	1 3/4	7	348637	104.80
.4355	.3730	6	1 3/4	7	348642	123.10
.4370	.3730	6	1 3/4	7	348643	123.10
.4980	.4355	6	2	8	348648	132.90
.4995	.4355	6	2	8	348649	132.90
CASED SET OF ABOVE 12 REAMERS					348600	1259.35

CARBIDE TIPPED CHUCKING REAMERS

TYPE 3452 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE

Flute long carbide tips brazed to one piece hardened alloy steel bodies. Straight polished flutes.

Designed and manufactured for maximum tool life. Used for all general reaming. Designed with flute long carbide for deep hole reaming.



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MORSE TAPER	NO. OF FLUTES	LENGTH		EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRAC.			FLUTE	OVERALL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	1	4	1 1/2	6	345208	\$76.80	.2381 - .2530	\$130.30	\$103.55	\$94.50	\$90.20	\$85.70	\$81.95
.2812	9/32	1	4	1 1/2	6	345209	77.80	.2531 - .2840	131.40	104.65	95.60	91.30	86.70	83.10
.3125	5/16	1	4	1 1/2	6	345210	77.80	.2841 - .3150	131.40	104.65	95.60	91.30	86.70	83.10
.3438	11/32	1	4	1 1/2	6	345211	79.55	.3151 - .3470	133.15	106.40	97.40	93.05	88.40	84.85
.3750	3/8	1	4	1 3/4	7	345212	80.50	.3471 - .3780	134.05	107.25	98.20	93.95	89.30	85.85
.4062	13/32	1	4	1 3/4	7	345213	84.75	.3781 - .4090	138.35	111.35	102.50	98.20	93.75	90.05
.4375	7/16	1	4	1 3/4	7	345214	90.30	.4091 - .4410	143.80	117.05	108.10	103.80	99.25	95.60
.4688	15/32	1	4	1 3/4	7	345215	92.20	.4411 - .4720	145.80	118.80	110.00	105.60	101.10	97.50
.5000	1/2	1	6	2	8	345216	99.40	.4721 - .5030	156.60	127.95	118.35	113.85	108.85	105.10
.5312	17/32	1	6	2	8	345217	108.85	.5031 - .5340	166.25	137.50	127.85	123.25	118.35	114.45
.5625	9/16	1	6	2	8	345218	108.85	.5341 - .5660	166.25	137.50	127.85	123.25	118.35	114.45
.5938	19/32	1	6	2	8	345219	113.90	.5661 - .5970	171.15	142.50	132.90	128.40	123.40	119.55
.6250	5/8	2	6	2	9	345220	113.90	.5971 - .6280	171.15	142.50	132.90	128.40	123.40	119.55
.6562	21/32	2	6	2	9	345221	115.95	.6281 - .6590	173.45	144.65	134.90	130.45	125.50	121.70
.6875	11/16	2	6	2	9	345222	115.95	.6591 - .6910	173.45	144.65	134.90	130.45	125.50	121.70
.7188	23/32	2	6	2	9	345223	117.65	.6911 - .7220	175.05	146.25	136.60	132.05	127.15	123.25
.7500	3/4	2	6	2	9 1/2	345224	121.40	.7221 - .7530	178.75	150.00	140.40	135.80	130.75	127.10
.7812	25/32	2	6	2	9 1/2	345225	122.35	.7531 - .7840	179.75	151.00	141.40	136.65	131.85	127.95
.8125	13/16	2	6	2	9 1/2	345226	125.25	.7841 - .8160	182.45	153.60	144.20	139.60	134.65	130.70
.8438	27/32	2	6	2	9 1/2	345227	130.60	.8161 - .8470	188.00	159.30	149.60	145.10	140.10	136.35
.8750	7/8	2	6	2 1/4	10	345228	135.65	.8471 - .8780	195.15	165.35	155.20	150.70	145.35	141.55
.9062	29/32	2	6	2 1/4	10	345229	152.75	.8781 - .9090	212.15	182.45	172.55	167.70	162.50	158.60
.9375	15/16	3	8	2 1/4	10	345230	158.90	.9091 - .9410	218.20	188.50	178.60	173.75	168.65	164.70
.9688	31/32	3	8	2 1/4	10	345231	165.40	.9411 - .9720	224.90	195.15	185.10	180.35	175.20	171.30
1.0000	1	3	8	2 1/4	10 1/2	345232	165.40	.9721 - 1.0030	224.90	195.15	185.10	180.35	175.20	171.30
1.0625	1 1/16	3	8	2 1/4	10 1/2	345234	226.75	1.0031 - 1.0660	283.70	255.00	245.50	241.05	236.10	232.25
1.1250	1 1/8	3	8	2 1/4	11	345236	244.15	1.0661 - 1.1280	301.15	272.55	263.15	258.55	253.55	249.75
1.1875	1 3/16	3	8	2 1/4	11	345238	262.35	1.1281 - 1.1905	319.30	290.80	281.25	276.65	271.90	267.90
1.2500	1 1/4	4	8	2 1/2	11 1/2	345240	278.80	1.1906 - 1.2530	335.75	307.20	297.80	293.05	288.15	284.35
1.3125	1 5/16	4	8	2 1/2	11 1/2	345242	314.80	1.2531 - 1.3155	371.75	343.30	333.60	329.20	324.25	320.40
1.3750	1 3/8	4	8	2 1/2	12	345244	359.70	1.3156 - 1.3780	416.65	388.15	378.50	374.00	369.05	365.25
1.4375	1 7/16	4	8	2 1/2	12	345246	375.45	1.3781 - 1.4405	432.45	403.85	394.30	389.90	384.85	381.05
1.5000	1 1/2	4	8	2 1/2	12 1/2	345248	391.05	1.4406 - 1.5030	448.10	419.65	410.10	405.50	400.55	396.65

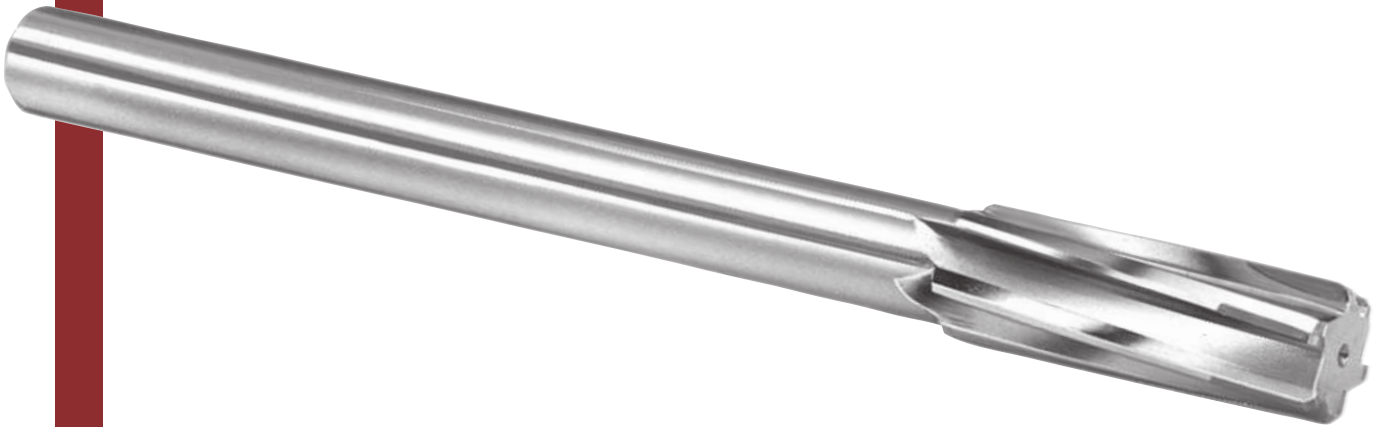
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CARBIDE TIPPED RIGHT SPIRAL CHUCKING REAMERS

TYPE 3410 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies. Right spiral polished flutes.

Designed and manufactured for maximum tool life. Right spiral flutes have greater chip clearing ability for use with ductile materials, highly abrasive materials or blind holes. Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.



For metric sizes, see page 84.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	LENGTH			EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRAC.			FLT	CARB	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1875	3/16	11/64	4	1 1/8	1/2	4 1/2	341006	\$78.55	.1770 - .2040	\$129.55	\$103.95	\$95.45	\$91.30	\$86.90	\$83.55
.2188	7/32	13/64	4	1 1/4	1/2	5	341007	78.55	.2041 - .2210	129.55	103.95	95.45	91.30	86.90	83.55
.2344	15/64	7/32	4	1 1/2	1/2	6	34102344	78.55	.2211 - .2380	129.55	103.95	95.45	91.30	86.90	83.55
.2500	1/4	15/64	4	1 1/2	1/2	6	341008	78.55	.2381 - .2530	129.55	103.95	95.45	91.30	86.90	83.55
.2812	9/32	15/64	4	1 1/2	1/2	6	341009	78.80	.2531 - .2840	129.70	104.15	95.60	91.50	87.15	83.70
.3125	5/16	9/32	4	1 1/2	1/2	6	341010	78.80	.2841 - .3150	129.70	104.15	95.60	91.50	87.15	83.70
.3438	11/32	9/32	4	1 1/2	5/8	6	341011	86.70	.3151 - .3470	137.65	112.05	103.55	99.50	95.10	91.75
.3750	3/8	5/16	4	1 3/4	5/8	7	341012	87.55	.3471 - .3780	138.45	112.90	104.30	100.40	96.05	92.50
.4062	13/32	5/16	4	1 3/4	5/8	7	341013	91.45	.3781 - .4090	142.40	116.90	108.40	104.25	99.80	96.45
.4375	7/16	3/8	4	1 3/4	5/8	7	341014	95.10	.4091 - .4410	146.00	120.50	112.00	107.90	103.55	100.10
.4688	15/32	3/8	4	1 3/4	5/8	7	341015	100.95	.4411 - .4720	151.90	126.40	117.90	113.75	109.45	105.85
.5000	1/2	7/16	6	2	5/8	8	341016	104.80	.4721 - .5030	157.00	130.70	122.05	117.90	113.45	109.85
.5312	17/32	7/16	6	2	5/8	8	341017	107.90	.5031 - .5340	160.30	134.05	125.30	121.10	116.65	113.05
.5625	9/16	7/16	6	2	5/8	8	341018	107.90	.5341 - .5660	160.30	134.05	125.30	121.10	116.65	113.05
.5938	19/32	7/16	6	2	5/8	8	341019	111.15	.5661 - .5970	163.40	137.30	128.45	124.25	119.80	116.20
.6250	5/8	9/16	6	2 1/4	5/8	9	341020	111.15	.5971 - .6280	163.40	137.30	128.45	124.25	119.80	116.20
.6562	21/32	9/16	6	2 1/4	5/8	9	341021	114.30	.6281 - .6590	166.70	140.50	131.70	127.45	122.95	119.55
.6875	11/16	9/16	6	2 1/4	5/8	9	341022	121.80	.6591 - .6910	174.00	147.80	139.05	134.85	130.40	126.95
.7188	23/32	9/16	6	2 1/4	5/8	9	341023	123.40	.6911 - .7220	175.70	149.45	140.75	136.60	132.05	128.55
.7500	3/4	5/8	6	2 1/2	3/4	9 1/2	341024	125.40	.7221 - .7530	177.65	151.45	142.70	138.50	134.05	130.45
.7812	25/32	5/8	6	2 1/2	3/4	9 1/2	341025	128.55	.7531 - .7840	180.95	154.75	145.95	141.75	137.30	133.70
.8125	13/16	5/8	6	2 1/2	3/4	9 1/2	341026	128.55	.7841 - .8160	180.95	154.75	145.95	141.75	137.30	133.70
.8438	27/32	5/8	6	2 1/2	3/4	9 1/2	341027	135.60	.8161 - .8470	188.00	161.75	153.00	148.85	144.25	140.75
.8750	7/8	3/4	6	2 5/8	3/4	10	341028	140.75	.8471 - .8780	195.00	167.85	158.60	154.45	149.70	146.00
.9062	29/32	3/4	6	2 5/8	3/4	10	341029	163.95	.8781 - .9090	218.20	191.10	181.95	177.60	172.90	169.30
.9375	15/16	3/4	8	2 5/8	3/4	10	341030	163.95	.9091 - .9410	218.20	191.10	181.95	177.60	172.90	169.30
.9688	31/32	3/4	8	2 5/8	3/4	10	341031	171.95	.9411 - .9720	226.25	199.00	190.00	185.55	180.90	177.30
1.0000	1	7/8	8	2 3/4	3/4	10 1/2	341032	171.95	.9721 - 1.0030	226.25	199.00	190.00	185.55	180.90	177.30
1.0625	1 1/16	7/8	8	2 3/4	3/4	10 1/2	341034	184.40	1.0031 - 1.0660	238.75	211.55	202.50	198.05	193.40	189.80
1.1250	1 1/8	7/8	8	2 7/8	7/8	11	341036	190.15	1.0661 - 1.1280	244.35	217.30	208.10	203.75	199.05	195.55
1.1875	1 3/16	1	8	2 7/8	7/8	11	341038	199.85	1.1281 - 1.1905	254.10	226.90	217.75	213.40	208.80	205.10
1.2500	1 1/4	1	8	3	7/8	11 1/2	341040	211.50	1.1906 - 1.2530	265.75	238.45	229.50	225.10	220.45	216.85
1.3125	1 5/16	1	8	3	7/8	11 1/2	341042	233.95	1.2531 - 1.3155	288.35	261.15	251.85	247.65	243.00	239.30
1.3750	1 3/8	1	8	3 1/4	7/8	12	341044	256.40	1.3156 - 1.3780	310.65	283.55	274.40	270.10	265.35	261.75
1.4375	1 7/16	1 1/4	8	3 1/4	7/8	12	341046	271.55	1.3781 - 1.4405	325.90	298.70	289.60	285.35	280.60	276.95
1.5000	1 1/2	1 1/4	8	3 1/2	7/8	12 1/2	341048	286.90	1.4406 - 1.5030	341.15	313.95	305.00	300.45	295.95	292.25

CARBIDE TIPPED LEFT SPIRAL CHUCKING REAMERS

TYPE 3420 - STRAIGHT SHANK - LEFT SPIRAL FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies. Left spiral polished flutes.

Designed and manufactured for maximum tool life. Left spiral flutes should only be used on through holes for heat treated steels, hard cast iron and other hard materials. Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.



For metric sizes, see page 84.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	LENGTH			EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRAC.			FLT	CARB	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1875	3/16	11/64	4	1 1/8	1/2	4 1/2	342006	\$78.55	.1770 - .2040	\$129.55	\$103.95	\$95.45	\$91.30	\$86.90	\$83.55
.2188	7/32	13/64	4	1 1/4	1/2	5	342007	78.55	.2041 - .2210	129.55	103.95	95.45	91.30	86.90	83.55
.2344	15/64	7/32	4	1 1/2	1/2	6	34202344	78.55	.2211 - .2380	129.55	103.95	95.45	91.30	86.90	83.55
.2500	1/4	15/64	4	1 1/2	1/2	6	342008	78.55	.2381 - .2530	129.55	103.95	95.45	91.30	86.90	83.55
.2812	9/32	15/64	4	1 1/2	1/2	6	342009	78.80	.2531 - .2840	129.70	104.15	95.60	91.50	87.15	83.70
.3125	5/16	9/32	4	1 1/2	1/2	6	342010	78.80	.2841 - .3150	129.70	104.15	95.60	91.50	87.15	83.70
.3438	11/32	9/32	4	1 1/2	5/8	6	342011	86.70	.3151 - .3470	137.65	112.05	103.55	99.50	95.10	91.75
.3750	3/8	5/16	4	1 3/4	5/8	7	342012	87.55	.3471 - .3780	138.45	112.90	104.30	100.40	96.05	92.50
.4062	13/32	5/16	4	1 3/4	5/8	7	342013	91.45	.3781 - .4090	142.40	116.90	108.40	104.25	99.80	96.45
.4375	7/16	3/8	4	1 3/4	5/8	7	342014	95.10	.4091 - .4410	146.00	120.50	112.00	107.90	103.55	100.10
.4688	15/32	3/8	4	1 3/4	5/8	7	342015	100.95	.4411 - .4720	151.90	126.40	117.90	113.75	109.45	105.85
.5000	1/2	7/16	6	2	5/8	8	342016	104.80	.4721 - .5030	157.00	130.70	122.05	117.90	113.45	109.85
.5312	17/32	7/16	6	2	5/8	8	342017	107.90	.5031 - .5340	160.30	134.05	125.30	121.10	116.65	113.05
.5625	9/16	7/16	6	2	5/8	8	342018	107.90	.5341 - .5660	160.30	134.05	125.30	121.10	116.65	113.05
.5938	19/32	7/16	6	2	5/8	8	342019	111.15	.5661 - .5970	163.40	137.30	128.45	124.25	119.80	116.20
.6250	5/8	9/16	6	2 1/4	5/8	9	342020	111.15	.5971 - .6280	163.40	137.30	128.45	124.25	119.80	116.20
.6562	21/32	9/16	6	2 1/4	5/8	9	342021	114.30	.6281 - .6590	166.70	140.50	131.70	127.45	122.95	119.55
.6875	11/16	9/16	6	2 1/4	5/8	9	342022	121.80	.6591 - .6910	174.00	147.80	139.05	134.85	130.40	126.95
.7188	23/32	9/16	6	2 1/4	5/8	9	342023	123.40	.6911 - .7220	175.70	149.45	140.75	136.60	132.05	128.55
.7500	3/4	5/8	6	2 1/2	3/4	9 1/2	342024	125.40	.7221 - .7530	177.65	151.45	142.70	138.50	134.05	130.45
.7812	25/32	5/8	6	2 1/2	3/4	9 1/2	342025	128.55	.7531 - .7840	180.95	154.75	145.95	141.75	137.30	133.70
.8125	13/16	5/8	6	2 1/2	3/4	9 1/2	342026	128.55	.7841 - .8160	180.95	154.75	145.95	141.75	137.30	133.70
.8438	27/32	5/8	6	2 1/2	3/4	9 1/2	342027	135.60	.8161 - .8470	188.00	161.75	153.00	148.85	144.25	140.75
.8750	7/8	3/4	6	2 5/8	3/4	10	342028	140.75	.8471 - .8780	195.00	167.85	158.60	154.45	149.70	146.00
.9062	29/32	3/4	6	2 5/8	3/4	10	342029	163.95	.8781 - .9090	218.20	191.10	181.95	177.60	172.90	169.30
.9375	15/16	3/4	8	2 5/8	3/4	10	342030	163.95	.9091 - .9410	218.20	191.10	181.95	177.60	172.90	169.30
.9688	31/32	3/4	8	2 5/8	3/4	10	342031	171.95	.9411 - .9720	226.25	199.00	190.00	185.55	180.90	177.30
1.0000	1	7/8	8	2 3/4	3/4	10 1/2	342032	171.95	.9721 - 1.0030	226.25	199.00	190.00	185.55	180.90	177.30
1.0625	1 1/16	7/8	8	2 3/4	3/4	10 1/2	342034	184.40	1.0031 - 1.0660	238.75	211.55	202.50	198.05	193.40	189.80
1.1250	1 1/8	7/8	8	2 3/4	7/8	11	342036	190.15	1.0661 - 1.1280	244.35	217.30	208.10	203.75	199.05	195.55
1.1875	1 3/16	1	8	2 7/8	7/8	11	342038	199.85	1.1281 - 1.1905	254.10	226.90	217.75	213.40	208.80	205.10
1.2500	1 1/4	1	8	3	7/8	11 1/2	342040	211.50	1.1906 - 1.2530	265.75	238.45	229.50	225.10	220.45	216.85
1.3125	1 5/16	1	8	3	7/8	11 1/2	342042	233.95	1.2531 - 1.3155	288.35	261.15	251.85	247.65	243.00	239.30
1.3750	1 3/8	1	8	3 1/4	7/8	12	342044	256.40	1.3156 - 1.3780	310.65	283.55	274.40	270.10	265.35	261.75
1.4375	1 7/16	1 1/4	8	3 1/4	7/8	12	342046	271.55	1.3781 - 1.4405	325.90	298.70	289.60	285.35	280.60	276.95
1.5000	1 1/2	1 1/4	8	3 1/2	7/8	12 1/2	342048	286.90	1.4406 - 1.5030	341.15	313.95	305.00	300.45	295.95	292.25

CARBIDE TIPPED SPIRAL CHUCKING REAMERS

TYPE 3410 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES
TYPE 3420 - STRAIGHT SHANK - LEFT SPIRAL FLUTES



Detailed description and fractional sizes on pages 82 & 83. Tolerances on page 60. Tool diameter in millimeters with all other dimensions in inches.

Table with columns: TOOL DIAMETER (mm, INCH), SHANK DIAM., NO. OF FLTS., LENGTH (FLT, CARB, OAL), RIGHT SPIRAL TYPE 3410 EDP NO., LEFT SPIRAL TYPE 3420 EDP NO., BOTH TYPES PRICE, METRIC SIZE RANGE, PRICE EACH - FINISHED TO METRIC SIZE (1 PC., 2 PC., 3 PC., 4 PC., 5-7, 8-14, 15+).

CARBIDE TIPPED SPIRAL CHUCKING REAMERS

TYPE 3412 - TAPER SHANK - RIGHT SPIRAL FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies. Right spiral polished flutes.

Designed and manufactured for maximum tool life. Right spiral flutes have greater chip clearing ability for use with ductile materials, highly abrasive materials or blind holes.

Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.



TYPE 3422 - TAPER SHANK - LEFT SPIRAL FLUTES

Carbide tips brazed to one piece hardened alloy steel bodies. Left spiral polished flutes.

Designed and manufactured for maximum tool life. Left spiral flutes should only be used on through holes for heat treated steels, hard cast iron and other hard materials. Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MORSE TAPER	NO. OF FLUTES	LENGTH			RT. SPIRAL TYPE 3412 EDP NO.	LEFT SPIRAL TYPE 3422 EDP NO.	BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRAC.			FLT	CARB	OAL					1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	1	4	1 1/2	1/2	6	341208	342208	\$82.40	.2381 - .2530	\$132.55	\$107.30	\$99.05	\$94.95	\$90.70	\$87.30
.2812	9/32	1	4	1 1/2	1/2	6	341209	342209	82.40	.2531 - .2840	132.55	107.30	99.05	94.95	90.70	87.30
.3125	5/16	1	4	1 1/2	1/2	6	341210	342210	84.25	.2841 - .3150	134.45	109.25	100.80	96.65	92.45	89.05
.3438	11/32	1	4	1 1/2	5/8	6	341211	342211	85.70	.3151 - .3470	135.75	110.70	102.35	98.20	93.95	90.60
.3750	3/8	1	4	1 3/4	5/8	7	341212	342212	86.85	.3471 - .3780	137.05	112.05	103.55	99.55	95.30	91.90
.4062	13/32	1	4	1 3/4	5/8	7	341213	342213	91.05	.3781 - .4090	141.40	116.10	107.75	103.80	99.40	96.10
.4375	7/16	1	4	1 3/4	5/8	7	341214	342214	95.05	.4091 - .4410	145.20	120.10	111.70	107.60	103.30	99.95
.4688	15/32	1	4	1 3/4	5/8	7	341215	342215	98.90	.4411 - .4720	148.95	123.80	115.45	111.30	107.00	103.70
.5000	1/2	1	6	2	5/8	8	341216	342216	113.85	.4721 - .5030	167.25	140.40	131.45	127.25	122.70	119.05
.5312	17/32	1	6	2	5/8	8	341217	342217	116.80	.5031 - .5340	170.30	143.50	134.60	130.30	125.65	122.05
.5625	9/16	1	6	2	5/8	8	341218	342218	116.80	.5341 - .5660	170.30	143.50	134.60	130.30	125.65	122.05
.5938	19/32	1	6	2	5/8	8	341219	342219	121.40	.5661 - .5970	174.90	148.00	139.10	134.85	130.30	126.70
.6250	5/8	2	6	2 1/4	5/8	9	341220	342220	121.40	.5971 - .6280	174.90	148.00	139.10	134.85	130.30	126.70
.6875	11/16	2	6	2 1/4	5/8	9	341222	342222	133.20	.6591 - .6910	186.70	159.80	151.00	146.70	142.05	138.50
.7500	3/4	2	6	2 1/2	3/4	9 1/2	341224	342224	140.90	.7221 - .7530	194.30	167.65	158.50	154.35	149.70	146.10
.8125	13/16	2	6	2 1/2	3/4	9 1/2	341226	342226	146.80	.7841 - .8160	200.35	173.55	164.40	160.30	155.60	152.00
.8750	7/8	2	6	2 5/8	3/4	10	341228	342228	158.05	.8471 - .8780	213.55	185.65	176.35	172.00	167.25	163.50
.9375	15/16	3	8	2 5/8	3/4	10	341230	342230	183.80	.9091 - .9410	239.30	211.55	202.15	197.70	192.95	189.25
1.0000	1	3	8	2 3/4	3/4	10 1/2	341232	342232	190.15	.9721 - 1.0030	245.60	217.75	208.55	204.10	199.35	195.60

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*Quantities of 15 or more: price of fractional size in same size range.

CARBIDE TIPPED EXPANSION CHUCKING REAMERS

TYPE 3465 - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE

Flute long carbide tips braze to one piece alloy steel bodies. Straight polished flutes.

Designed and manufactured for maximum tool life. Expansion reamers are recommended for reaming abrasive materials and as the diameter wears down, the reamers can be expanded many times by tightening the end adjusting screw and regrinding to its original size. Expansion reamers should not be considered as adjustable for use in producing holes of several sizes.

TOOL DIAMETER	MINIMUM EXPANSION
5/16" - 15/32"	.006"
1/2" - 31/32"	.010"
1" - 1 1/2"	.013"
1 9/16" - 2 1/2"	.015"



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		SHANK DIAM.	NO. OF FLUTES	LENGTH		EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3125	5/16	9/32	4	1	6	346510	\$102.85	.2841 - .3150	\$156.45	\$129.60	\$120.50	\$116.50	\$111.90	\$108.25
.3438	11/32	9/32	4	1	6	346511	102.85	.3151 - .3470	156.45	129.60	120.50	116.50	111.90	108.25
.3750	3/8	5/16	4	1	7	346512	96.45	.3471 - .3780	146.70	121.50	113.00	109.05	104.80	101.35
.4062	13/32	5/16	4	1	7	346513	102.40	.3781 - .4090	152.45	127.30	118.95	115.00	110.70	107.25
.4375	7/16	3/8	4	1	7	346514	102.40	.4091 - .4410	152.45	127.30	118.95	115.00	110.70	107.25
.4688	15/32	3/8	4	1	7	346515	108.55	.4411 - .4720	158.50	133.45	125.15	121.10	116.80	113.50
.5000	1/2	7/16	6	1	8	346516	108.55	.4721 - .5030	158.50	133.45	125.15	121.10	116.80	113.50
.5312	17/32	7/16	6	1	8	346517	111.15	.5031 - .5340	161.40	136.30	127.85	123.85	119.55	116.10
.5625	9/16	7/16	6	1 1/8	8	346518	111.15	.5341 - .5660	161.40	136.30	127.85	123.85	119.55	116.10
.5938	19/32	7/16	6	1 1/8	8	346519	116.05	.5661 - .5970	166.25	141.20	132.75	128.70	124.40	121.05
.6250	5/8	9/16	6	1 1/4	9	346520	116.05	.5971 - .6280	166.25	141.20	132.75	128.70	124.40	121.05
.6562	21/32	9/16	6	1 1/4	9	346521	127.00	.6281 - .6590	177.05	151.90	143.55	139.60	135.20	131.85
.6875	11/16	9/16	6	1 1/4	9	346522	127.00	.6591 - .6910	177.05	151.90	143.55	139.60	135.20	131.85
.7188	23/32	9/16	6	1 1/4	9	346523	131.60	.6911 - .7220	181.90	156.60	148.15	144.25	139.95	136.60
.7500	3/4	5/8	6	1 3/8	9 1/2	346524	131.60	.7221 - .7530	181.90	156.60	148.15	144.25	139.95	136.60
.7812	25/32	5/8	6	1 3/8	9 1/2	346525	141.90	.7531 - .7840	192.10	166.95	158.45	154.55	150.25	146.85
.8125	13/16	5/8	6	1 3/8	9 1/2	346526	141.90	.7841 - .8160	192.10	166.95	158.45	154.55	150.25	146.85
.8438	27/32	5/8	6	1 3/8	9 1/2	346527	147.55	.8161 - .8470	197.55	172.55	164.10	160.05	155.90	152.40
.8750	7/8	3/4	6	1 1/2	10	346528	153.05	.8471 - .8780	204.95	179.00	170.15	166.20	161.65	158.15
.9062	29/32	3/4	6	1 1/2	10	346529	162.90	.8781 - .9090	215.00	188.80	180.20	176.05	171.55	168.00
.9375	15/16	3/4	8	1 1/2	10	346530	162.90	.9091 - .9410	215.00	188.80	180.20	176.05	171.55	168.00
.9688	31/32	3/4	8	1 1/2	10	346531	169.30	.9411 - .9720	221.20	195.25	186.40	182.35	177.85	174.30
1.0000	1	7/8	8	1 5/8	10 1/2	346532	169.30	.9721 - 1.0030	221.20	195.25	186.40	182.35	177.85	174.30
1.0312	1 1/32	7/8	8	1 5/8	10 1/2	346533	185.50	-	-	-	-	-	-	-
1.0625	1 1/16	7/8	8	1 5/8	10 1/2	346534	185.50	1.0031 - 1.0660	237.55	211.50	202.75	198.60	194.10	190.55
1.0938	1 3/32	7/8	8	1 3/4	11	346535	185.50	-	-	-	-	-	-	-
1.1250	1 1/8	7/8	8	1 3/4	11	346536	185.50	1.0661 - 1.1280	237.55	211.50	202.75	198.60	194.10	190.55
1.1875	1 3/16	1	8	1 3/4	11	346538	202.45	1.1281 - 1.1905	254.50	228.35	219.60	215.45	210.95	207.65
1.2500	1 1/4	1	8	1 7/8	11 1/2	346540	202.45	1.1906 - 1.2530	254.50	228.35	219.60	215.45	210.95	207.65
1.3125	1 5/16	1	8	1 7/8	11 1/2	346542	224.35	1.2531 - 1.3155	276.50	250.40	241.75	237.55	233.00	229.65
1.3750	1 3/8	1	8	2	12	346544	235.00	1.3156 - 1.3780	287.00	260.90	252.20	248.20	243.50	240.05
1.4375	1 7/16	1 1/4	8	2	12	346546	277.70	1.3781 - 1.4405	333.20	305.35	296.00	291.60	286.80	283.15
1.5000	1 1/2	1 1/4	8	2 1/8	12 1/2	346548	285.75	1.4406 - 1.5030	341.30	313.40	304.20	299.85	295.05	291.20
1.5625	1 9/16	1 1/4	8	2 1/8	12 1/2	346550	375.35	1.5031 - 1.5660	430.75	403.10	393.60	389.15	384.50	380.70
1.6250	1 5/8	1 1/4	8	2 1/4	13	346552	375.35	1.5661 - 1.6280	430.75	403.10	393.60	389.15	384.50	380.70
1.6875	1 11/16	1 1/4	8	2 1/4	13	346554	415.65	1.6281 - 1.6910	471.15	443.35	434.15	429.60	424.95	421.05
1.7500	1 3/4	1 1/4	10	2 3/8	13 1/2	346556	415.65	1.6911 - 1.7530	471.15	443.35	434.15	429.60	424.95	421.05
1.8125	1 13/16	1 1/2	10	2 3/8	13 1/2	346558	492.25	1.7531 - 1.8160	547.60	519.85	510.55	506.10	501.45	497.60
1.8750	1 7/8	1 1/2	10	2 1/2	14	346560	492.25	1.8161 - 1.8780	547.60	519.85	510.55	506.10	501.45	497.60
1.9375	1 15/16	1 1/2	10	2 1/2	14	346562	537.80	1.8781 - 1.9410	593.20	565.45	556.10	551.55	546.95	543.15
2.0000	2	1 1/2	12	2 1/2	14	346564	537.80	1.9411 - 2.0030	593.20	565.45	556.10	551.55	546.95	543.15
2.1250	2 1/8	1 1/2	12	2 3/4	14 1/2	346568	873.45	2.0031 - 2.1280	929.00	901.15	891.90	887.55	882.70	878.85
2.2500	2 1/4	1 3/4	12	2 3/4	14 1/2	346572	938.10	2.1281 - 2.2530	993.45	965.70	956.45	952.00	947.25	943.50
2.3750	2 3/8	1 3/4	12	3	15	346576	970.75	2.2531 - 2.3780	1026.35	998.50	989.15	984.70	979.95	976.15
2.5000	2 1/2	1 3/4	12	3	15	346580	970.75	2.3781 - 2.5030	1026.35	998.50	989.15	984.70	979.95	976.15

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CARBIDE TIPPED EXPANSION CHUCKING REAMERS

TYPE 3467 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE

Flute long carbide tips brazed to one piece alloy steel bodies. Straight polished flutes.

Designed and manufactured for maximum tool life. Expansion reamers are recommended for reaming abrasive materials and as the diameter wears down, the reamers can be expanded many times by tightening the end adjusting screw and regrinding to its original size. Expansion reamers should not be considered as adjustable for use in producing holes of several sizes.

TOOL DIAMETER	MINIMUM EXPANSION
5/16" - 15/32"	.006"
1/2" - 31/32"	.010"
1" - 1 1/2"	.013"
1 9/16" - 2 1/2"	.015"



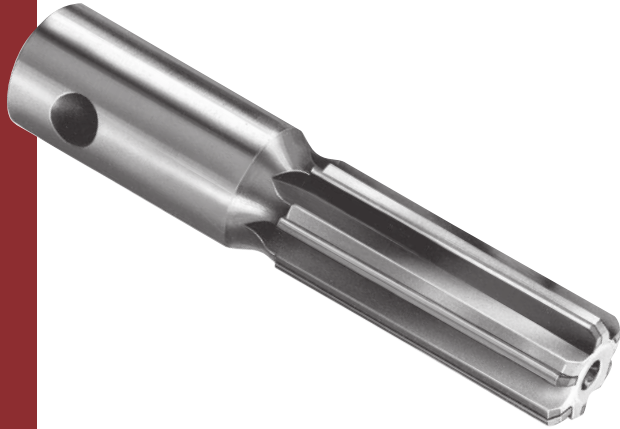
For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MORSE TAPER	NO. OF FLUTES	LENGTH		EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRAC.			FLT	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3125	5/16	1	4	1	6	346710	\$115.90	.2841 - .3150	\$169.45	\$142.55	\$133.70	\$129.30	\$124.85	\$121.20
.3438	11/32	1	4	1	6	346711	115.90	.3151 - .3470	169.45	142.55	133.70	129.30	124.85	121.20
.3750	3/8	1	4	1	7	346712	108.70	.3471 - .3780	158.90	133.70	125.30	121.35	117.05	113.65
.4062	13/32	1	4	1	7	346713	112.05	.3781 - .4090	162.20	136.95	128.60	124.65	120.25	116.90
.4375	7/16	1	4	1	7	346714	112.05	.4091 - .4410	162.20	136.95	128.60	124.65	120.25	116.90
.4688	15/32	1	4	1	7	346715	117.50	.4411 - .4720	167.70	142.55	134.15	130.15	125.80	122.40
.5000	1/2	1	6	1	8	346716	117.50	.4721 - .5030	167.70	142.55	134.15	130.15	125.80	122.40
.5312	17/32	1	6	1	8	346717	121.10	.5031 - .5340	171.30	146.10	137.75	133.70	129.30	125.95
.5625	9/16	1	6	1 1/8	8	346718	121.10	.5341 - .5660	171.30	146.10	137.75	133.70	129.30	125.95
.5938	19/32	1	6	1 1/8	8	346719	125.95	.5661 - .5970	176.15	151.10	142.70	138.65	134.45	131.00
.6250	5/8	2	6	1 1/4	9	346720	125.95	.5971 - .6280	176.15	151.10	142.70	138.65	134.45	131.00
.6562	21/32	2	6	1 1/4	9	346721	141.80	.6281 - .6590	192.00	166.70	158.35	154.45	150.10	146.80
.6875	11/16	2	6	1 1/4	9	346722	141.80	.6591 - .6910	192.00	166.70	158.35	154.45	150.10	146.80
.7188	23/32	2	6	1 1/4	9	346723	142.10	.6911 - .7220	192.40	167.35	158.90	154.90	150.45	147.15
.7500	3/4	2	6	1 3/8	9 1/2	346724	142.10	.7221 - .7530	192.40	167.35	158.90	154.90	150.45	147.15
.7812	25/32	2	6	1 3/8	9 1/2	346725	152.70	.7531 - .7840	202.90	177.65	169.40	165.40	160.95	157.65
.8125	13/16	2	6	1 3/8	9 1/2	346726	152.70	.7841 - .8160	202.90	177.65	169.40	165.40	160.95	157.65
.8438	27/32	2	6	1 3/8	9 1/2	346727	159.15	.8161 - .8470	209.25	184.10	175.70	171.60	167.40	163.95
.8750	7/8	2	6	1 1/2	10	346728	165.20	.8471 - .8780	217.05	191.15	182.35	178.20	173.70	170.10
.9062	29/32	2	6	1 1/2	10	346729	174.60	.8781 - .9090	226.65	200.60	191.80	187.65	183.20	179.75
.9375	15/16	3	8	1 1/2	10	346730	174.60	.9091 - .9410	226.65	200.60	191.80	187.65	183.20	179.75
.9688	31/32	3	8	1 1/2	10	346731	180.95	.9411 - .9720	232.85	206.80	198.05	193.90	189.55	185.95
1.0000	1	3	8	1 5/8	10 1/2	346732	180.95	.9721 - 1.0030	232.85	206.80	198.05	193.90	189.55	185.95
1.0312	1 1/32	3	8	1 5/8	10 1/2	346733	197.90	-	-	-	-	-	-	-
1.0625	1 1/16	3	8	1 5/8	10 1/2	346734	197.90	1.0031 - 1.0660	250.20	223.95	215.25	211.10	206.65	203.05
1.0938	1 3/32	3	8	1 3/4	11	346735	197.90	-	-	-	-	-	-	-
1.1250	1 1/8	3	8	1 3/4	11	346736	197.90	1.0661 - 1.1280	250.20	223.95	215.25	211.10	206.65	203.05
1.1875	1 3/16	3	8	1 3/4	11	346738	222.65	1.1281 - 1.1905	274.65	248.60	239.90	235.80	231.35	227.80
1.2500	1 1/4	4	8	1 7/8	11 1/2	346740	225.65	1.1906 - 1.2530	277.70	251.65	243.00	238.85	234.25	230.80
1.3125	1 5/16	4	8	1 7/8	11 1/2	346742	246.65	1.2531 - 1.3155	298.70	272.55	263.85	259.75	255.40	251.70
1.3750	1 3/8	4	8	2	12	346744	270.25	1.3156 - 1.3780	322.15	296.20	287.50	283.30	278.80	275.25
1.4375	1 7/16	4	8	2	12	346746	303.30	1.3781 - 1.4405	358.80	331.05	321.70	317.25	312.50	308.75
1.5000	1 1/2	4	8	2 1/8	12 1/2	346748	314.10	1.4406 - 1.5030	369.70	341.70	332.35	328.05	323.25	319.50
1.5625	1 9/16	4	8	2 1/8	12 1/2	346750	431.55	1.5031 - 1.5660	487.10	459.30	450.00	445.65	440.75	437.00
1.6250	1 5/8	4	8	2 1/4	13	346752	431.55	1.5661 - 1.6280	487.10	459.30	450.00	445.65	440.75	437.00
1.6875	1 11/16	4	8	2 1/4	13	346754	478.00	1.6281 - 1.6910	533.55	505.75	496.40	491.85	487.20	483.45
1.7500	1 3/4	4	10	2 3/8	13 1/2	346756	478.00	1.6911 - 1.7530	533.55	505.75	496.40	491.85	487.20	483.45
1.8125	1 13/16	4	10	2 3/8	13 1/2	346758	565.90	1.7531 - 1.8160	621.50	593.75	584.45	579.95	575.10	571.45
1.8750	1 7/8	4	10	2 1/2	14	346760	565.90	1.8161 - 1.8780	621.50	593.75	584.45	579.95	575.10	571.45
1.9375	1 15/16	4	10	2 1/2	14	346762	618.50	1.8781 - 1.9410	673.90	646.10	636.75	632.35	627.55	624.00
2.0000	2	4	12	2 1/2	14	346764	618.50	1.9411 - 2.0030	673.90	646.10	636.75	632.35	627.55	624.00
2.1250	2 1/8	5	12	2 3/4	14 1/2	346768	925.95	2.0031 - 2.1280	981.45	953.70	944.35	939.90	935.20	931.35
2.2500	2 1/4	5	12	2 3/4	14 1/2	346772	994.40	2.1281 - 2.2530	1049.95	1022.05	1012.85	1008.25	1003.60	999.90
2.3750	2 3/8	5	12	3	15	346776	1028.95	2.2531 - 2.3780	1084.35	1056.70	1047.25	1043.00	1038.15	1034.45
2.5000	2 1/2	5	12	3	15	346780	1028.95	2.3781 - 2.5030	1084.35	1056.70	1047.25	1043.00	1038.15	1034.45

CARBIDE TIPPED CNC STUB/SCREW MACHINE REAMERS

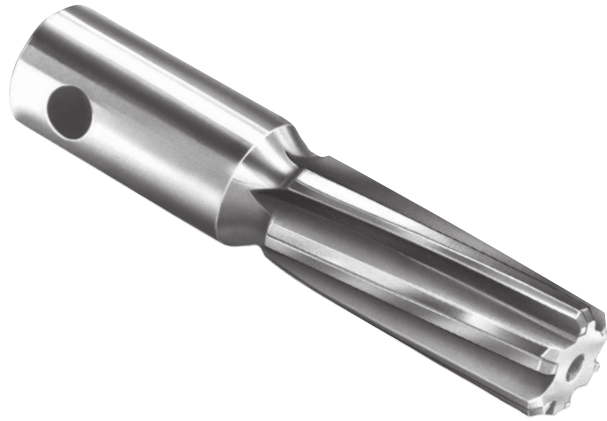
TYPE 3430 - STRAIGHT FLUTE LONG CARBIDE

Flute long carbide tips brazed to one piece hardened alloy steel bodies. Polished flutes permit high volume chip load.



TYPE 3440 - LEFT SPIRAL FLUTE LONG CARBIDE

Flute long carbide tips brazed to one piece hardened alloy steel bodies. Left spiral flutes tend to bridge interruptions. Used in through holes only.



BOTH TYPES:
Pin cross hole permits use in floating holders.
For reamer tolerances and closer tolerance pricing, see page 60

TOOL DIAMETER		SHANK DIAM.	PIN HOLE DIAM.	NO. OF FLUTES	LENGTH		STRAIGHT TYPE 3430 EDP NO.	LEFT SPIRAL TYPE 3440 EDP NO.	BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTION				FLT	OAL					1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
.1875	3/16	1/4	3/32	4	1*	2 1/4	343006	344006	\$72.80	.1770 - .2040	\$126.15	\$99.40	\$90.45	\$86.25	\$81.65	\$77.95
.2188	7/32	1/4	3/32	4	1*	2 1/4	343007	344007	72.80	.2041 - .2210	126.15	99.40	90.45	86.25	81.65	77.95
.2344	15/64	1/4	3/32	4	1*	2 1/4	34302344	34402344	72.80	.2211 - .2380	126.15	99.40	90.45	86.25	81.65	77.95
.2500	1/4	1/4	3/32	4	1*	2 1/4	343008	344008	72.80	.2381 - .2530	126.15	99.40	90.45	86.25	81.65	77.95
.2812	9/32	3/8	1/8	4	1*	2 1/4	343009	344009	72.80	.2531 - .2840	126.15	99.40	90.45	86.25	81.65	77.95
.3125	5/16	3/8	1/8	4	1	2 1/4	343010	344010	84.60	.2841 - .3150	137.95	111.15	102.35	98.05	93.35	89.85
.3438	11/32	3/8	1/8	4	1 1/4	2 1/2	343011	344011	85.25	.3151 - .3470	138.75	112.05	103.00	98.90	94.15	90.60
.3750	3/8	3/8	1/8	4	1 1/4	2 1/2	343012	344012	92.50	.3471 - .3780	146.00	119.25	110.30	105.95	101.35	97.75
.4062	13/32	1/2	3/16	4	1 1/4	2 1/2	343013	344013	93.90	.3781 - .4090	147.40	120.40	111.60	107.30	102.70	99.20
.4375	7/16	1/2	3/16	4	1 1/4	2 1/2	343014	344014	111.05	.4091 - .4410	164.65	137.80	128.75	124.65	120.05	116.50
.4688	15/32	1/2	3/16	4	1 1/4	2 1/2	343015	344015	111.05	.4411 - .4720	164.65	137.80	128.75	124.65	120.05	116.50
.5000	1/2	1/2	3/16	4	1 1/4	2 1/2	343016	344016	121.65	.4721 - .5030	176.60	149.10	139.90	135.50	130.70	127.10
.5312	17/32	5/8	1/4	6	1 1/2	3	343017	344017	121.65	.5031 - .5340	176.60	149.10	139.90	135.50	130.70	127.10
.5625	9/16	5/8	1/4	6	1 1/2	3	343018	344018	128.25	.5341 - .5660	182.95	155.50	146.25	141.95	137.20	133.45
.5938	19/32	5/8	1/4	6	1 1/2	3	343019	344019	128.25	.5661 - .5970	182.95	155.50	146.25	141.95	137.20	133.45
.6250	5/8	5/8	1/4	6	1 1/2	3	343020	344020	131.60	.5971 - .6280	186.55	159.05	149.75	145.35	140.65	136.95
.6562	21/32	5/8	1/4	6	1 1/2	3	343021	344021	131.60	.6281 - .6590	186.55	159.05	149.75	145.35	140.65	136.95
.6875	11/16	5/8	1/4	6	1 1/2	3	343022	344022	137.75	.6591 - .6910	192.55	165.10	156.00	151.45	146.80	143.10
.7188	23/32	3/4	5/16	6	1 1/2	3	343023	344023	137.75	.6911 - .7220	192.55	165.10	156.00	151.45	146.80	143.10
.7500	3/4	3/4	5/16	6	1 1/2	3	343024	344024	141.35	.7221 - .7530	196.00	168.65	159.35	155.00	150.30	146.65
.7812	25/32	3/4	5/16	6	1 1/2	3	343025	344025	141.35	.7531 - .7840	196.00	168.65	159.35	155.00	150.30	146.65
.8125	13/16	3/4	5/16	6	1 1/2	3	343026	344026	153.40	.7841 - .8160	208.25	180.90	171.55	167.25	162.50	158.90
.8438	27/32	3/4	5/16	6	1 1/2	3	343027	344027	153.40	.8161 - .8470	208.25	180.90	171.55	167.25	162.50	158.90
.8750	7/8	3/4	5/16	6	1 1/2	3	343028	344028	167.65	.8471 - .8780	224.65	195.90	186.40	181.90	177.05	173.15
.9062	29/32	3/4	5/16	6	1 1/2	3	343029	344029	167.65	.8781 - .9090	224.65	195.90	186.40	181.90	177.05	173.15
.9375	19/16	3/4	5/16	6	1 1/2	3	343030	344030	184.55	.9091 - .9410	241.50	213.10	203.50	198.90	194.10	190.25
.9688	31/32	3/4	5/16	8	1 1/2	3	343031	344031	184.55	.9411 - .9720	241.50	213.10	203.50	198.90	194.10	190.25
1.0000	1	3/4	5/16	8	1 1/2	3	343032	344032	193.60	.9721 - 1.0030	250.65	222.20	212.55	208.05	203.05	199.30
1.0625	1 1/16	3/4	5/16	8	1 1/2	3	343034	344034	193.60	1.0031 - 1.0660	250.65	222.20	212.55	208.05	203.05	199.30
1.1250	1 1/8	3/4	5/16	8	1 1/2	3	343036	344036	226.75	1.0661 - 1.1280	283.70	255.00	245.50	241.05	236.10	232.25
1.1875	1 3/16	3/4	5/16	8	1 1/2	3	343038	344038	236.30	1.1281 - 1.1905	293.40	264.85	255.15	250.65	245.80	241.90
1.2500	1 1/4	3/4	5/16	8	1 1/2	3	343040	344040	276.85	1.1906 - 1.2530	333.90	305.35	295.85	291.20	286.45	282.55
1.3125	1 5/16	3/4	5/16	8	1 1/2	3	343042	344042	276.85	1.2531 - 1.3155	333.90	305.35	295.85	291.20	286.45	282.55
1.3750	1 3/8	3/4	5/16	8	1 1/2	3	343044	344044	280.85	1.3156 - 1.3780	337.80	309.30	299.85	295.20	290.50	286.60
1.4375	1 7/16	3/4	5/16	8	1 1/2	3	343046	344046	327.35	1.3781 - 1.4405	384.50	355.80	346.40	341.70	336.90	333.10
1.5000	1 1/2	3/4	5/16	8	1 1/2	3	343048	344048	393.20	1.4406 - 1.5030	450.15	421.75	412.15	407.60	402.55	398.75

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CARBIDE TIPPED NAS 897 CHUCKING REAMERS

TYPE 3453 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR NON-FERROUS

TYPE 3454 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR CAST IRON

TYPE 3455 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR STEEL

Flute long carbide tips brazed to one piece alloy steel bodies. Straight polished flutes.

NAS 897 chucking reamers manufactured to national aerospace standards 897 C with flute long carbide. Tool geometry and carbide grade appropriate for material being machined.



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MORSE TAPER	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3453 EDP NO.	CAST IRON TYPE 3454 EDP NO.	STEEL TYPE 3455 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRAC.			FLT.	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.2500	1/4	1	4	1 1/2	6	345308	345408	345508	\$92.15	.2381 - .2530	\$145.65	\$118.75	\$109.75	\$105.55	\$101.00	\$97.40
.2812	9/32	1	4	1 1/2	6	345309	345409	345509	93.50	.2531 - .2840	147.00	120.20	111.15	106.95	102.40	98.90
.3125	5/16	1	4	1 1/2	6	345310	345410	345510	93.50	.2841 - .3150	147.00	120.20	111.15	106.95	102.40	98.90
.3438	11/32	1	4	1 1/2	6	345311	345411	345511	95.60	.3151 - .3470	149.15	122.25	113.45	109.05	104.45	100.95
.3750	3/8	1	4	1 3/4	7	345312	345412	345512	96.60	.3471 - .3780	150.25	123.35	114.45	110.15	105.55	102.00
.4062	13/32	1	4	1 3/4	7	345313	345413	345513	101.80	.3781 - .4090	155.15	128.45	119.40	115.15	110.60	106.95
.4375	7/16	1	6	1 3/4	7	345314	345414	345514	108.45	.4091 - .4410	161.90	135.00	126.00	121.85	117.25	113.75
.4688	15/32	1	6	1 3/4	7	345315	345415	345515	110.70	.4411 - .4720	164.20	137.45	128.45	124.10	119.55	115.90
.5000	1/2	1	6	2	8	345316	345416	345516	119.10	.4721 - .5030	176.50	147.80	138.30	133.50	128.70	124.85
.5312	17/32	1	6	2	8	345317	345417	345517	130.60	.5031 - .5340	188.00	159.30	149.60	145.10	140.10	136.35
.5625	9/16	1	6	2	8	345318	345418	345518	130.60	.5341 - .5660	188.00	159.30	149.60	145.10	140.10	136.35
.5938	19/32	1	6	2	8	345319	345419	345519	136.65	.5661 - .5970	194.10	165.40	155.90	151.15	146.25	142.35
.6250	5/8	2	6	2 1/4	9	345320	345420	345520	136.65	.5971 - .6280	194.10	165.40	155.90	151.15	146.25	142.35
.6562	21/32	2	6	2 1/4	9	345321	345421	345521	139.35	.6281 - .6590	196.55	167.80	158.20	153.55	148.80	144.85
.6875	11/16	2	6	2 1/4	9	345322	345422	345522	139.35	.6591 - .6910	196.55	167.80	158.20	153.55	148.80	144.85
.7188	23/32	2	6	2 1/4	9	345323	345423	345523	141.20	.6911 - .7220	198.50	169.70	160.05	155.45	150.70	146.70
.7500	3/4	2	6	2 1/2	9 1/2	345324	345424	345524	145.80	.7221 - .7530	202.95	174.25	164.65	160.05	155.15	151.25
.7812	25/32	2	6	2 1/2	9 1/2	345325	345425	345525	146.85	.7531 - .7840	204.10	175.45	165.80	161.25	156.35	152.45
.8125	13/16	2	6	2 1/2	9 1/2	345326	345426	345526	150.10	.7841 - .8160	207.40	178.75	169.25	164.55	159.60	155.90
.8438	27/32	2	6	2 1/2	9 1/2	345327	345427	345527	156.60	.8161 - .8470	213.95	185.35	175.70	171.10	166.25	162.35
.8750	7/8	2	6	2 5/8	10	345328	345428	345528	162.50	.8471 - .8780	222.05	192.25	182.35	177.50	172.55	168.40
.9062	29/32	2	6	2 5/8	10	345329	345429	345529	191.00	.8781 - .9090	250.40	220.70	210.65	205.95	200.75	196.85
.9375	15/16	3	8	2 5/8	10	345330	345430	345530	191.00	.9091 - .9410	250.40	220.70	210.65	205.95	200.75	196.85
.9688	31/32	3	8	2 5/8	10	345331	345431	345531	198.70	.9411 - .9720	258.00	228.25	218.20	213.55	208.55	204.50
1.0000	1	3	8	2 3/4	10 1/2	345332	345432	345532	198.70	.9721 - 1.0030	258.00	228.25	218.20	213.55	208.55	204.50
1.0625	1 1/16	3	8	2 3/4	10 1/2	345334	345434	345534	253.25	1.0031 - 1.0660	310.20	281.75	272.20	267.60	262.75	258.75
1.1250	1 1/8	3	8	2 7/8	11	345336	345436	345536	269.05	1.0661 - 1.1280	326.15	297.70	287.95	283.55	278.45	274.80
1.1875	1 3/16	3	8	2 7/8	11	345338	345438	345538	294.20	1.1281 - 1.1905	351.20	322.60	313.10	308.45	303.75	299.85
1.2500	1 1/4	4	8	3	11 1/2	345340	345440	345540	319.15	1.1906 - 1.2530	376.20	347.70	338.20	333.50	328.70	324.85
1.3125	1 5/16	4	8	3	11 1/2	345342	345442	345542	337.35	1.2531 - 1.3155	394.30	365.70	356.05	351.65	346.70	342.80
1.3750	1 3/8	4	8	3 1/4	12	345344	345444	345544	356.80	1.3156 - 1.3780	413.70	385.15	375.65	371.15	366.15	362.30
1.4375	1 7/16	4	8	3 1/4	12	345346	345446	345546	375.60	1.3781 - 1.4405	432.60	403.95	394.45	390.00	384.95	381.10
1.5000	1 1/2	4	8	3 1/2	12 1/2	345348	345448	345548	395.90	1.4406 - 1.5030	452.90	424.25	414.75	410.25	405.35	401.50

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*Quantities of 15 or more: price of fractional size in same size range.

Made in U.S.A.

CARBIDE TIPPED NAS 897 RIGHT SPIRAL CHUCKING REAMERS

TYPE 3442 - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - FOR NON-FERROUS

TYPE 3443 - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - FOR CAST IRON

TYPE 3444 - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - FOR STEEL

Flute long carbide tips brazed to one piece hardened alloy steel bodies. Right spiral polished flutes.

Right spiral flutes have a greater chip clearing ability for use with ductile materials, highly abrasive materials or blind holes. Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.

NAS 897 chucking reamers manufactured to national aerospace standards 897 C with flute long carbide. Tool geometry and carbide grade appropriate for material being machined.

For step reamers, see page 125. For longer overall length reamers, see page 120.



Shanks are ground to the next smallest shank diameter listed in NAS 897 if tool diameter is within .005" of shank diameter.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MAX SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3442 EDP NO.	CAST IRON TYPE 3443 EDP NO.	STEEL TYPE 3444 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTION			FLT.	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3125	5/16	.2792	4	1 1/2	6	344210	344310	344410	\$101.85	.2841 - .3150	\$151.90	\$126.95	\$118.40	\$114.45	\$110.15	\$106.75
.3438	11/32	.2792	4	1 1/2	6	344211	344311	344411	112.20	.3151 - .3470	162.35	137.20	128.75	124.85	120.40	117.10
.3750	3/8	.3105	4	1 3/4	7	344212	344312	344412	113.15	.3471 - .3780	163.40	138.30	129.75	125.80	121.50	118.20
.4062	13/32	.3105	4	1 3/4	7	344213	344313	344413	118.25	.3781 - .4090	168.30	143.25	134.85	130.75	126.65	123.20
.4375	7/16	.3730	6	1 3/4	7	344214	344314	344414	122.85	.4091 - .4410	172.90	147.85	139.50	135.50	131.20	127.60
.4688	15/32	.3730	6	1 3/4	7	344215	344315	344415	130.60	.4411 - .4720	180.80	155.60	147.25	143.25	138.90	135.60
.5000	1/2	.4355	6	2	8	344216	344316	344416	140.90	.4721 - .5030	194.30	167.65	158.50	154.35	149.70	146.10
.5312	17/32	.4355	6	2	8	344217	344317	344417	144.95	.5031 - .5340	198.50	171.55	162.55	158.35	153.90	150.25
.5625	9/16	.4355	6	2	8	344218	344318	344418	144.95	.5341 - .5660	198.50	171.55	162.55	158.35	153.90	150.25
.5938	19/32	.4355	6	2	8	344219	344319	344419	149.25	.5661 - .5970	202.75	175.85	166.95	162.55	158.05	154.45
.6250	5/8	.5615	6	2 1/4	9	344220	344320	344420	149.25	.5971 - .6280	202.75	175.85	166.95	162.55	158.05	154.45
.6562	21/32	.5615	6	2 1/4	9	344221	344321	344421	154.00	.6281 - .6590	207.40	180.50	171.55	167.40	162.75	159.20
.6875	11/16	.5615	6	2 1/4	9	344222	344322	344422	163.40	.6591 - .6910	216.90	190.15	181.10	176.90	172.40	168.70
.7188	23/32	.5615	6	2 1/4	9	344223	344323	344423	165.85	.6911 - .7220	219.45	192.55	183.75	179.35	174.85	171.15
.7500	3/4	.6245	6	2 1/2	9 1/2	344224	344324	344424	168.40	.7221 - .7530	221.85	195.15	186.10	181.95	177.30	173.75
.7812	25/32	.6245	6	2 1/2	9 1/2	344225	344325	344425	172.90	.7531 - .7840	226.40	199.65	190.55	186.25	181.80	178.15
.8125	13/16	.6245	6	2 1/2	9 1/2	344226	344326	344426	172.90	.7841 - .8160	226.40	199.65	190.55	186.25	181.80	178.15
.8438	27/32	.6245	6	2 1/2	9 1/2	344227	344327	344427	182.25	.8161 - .8470	235.80	208.85	199.90	195.70	191.15	187.50
.8750	7/8	.7495	6	2 5/8	10	344228	344328	344428	189.15	.8471 - .8780	244.60	216.85	207.55	203.05	198.45	194.60
.9062	29/32	.7495	6	2 5/8	10	344229	344329	344429	220.35	.8781 - .9090	275.95	248.10	238.70	234.25	229.65	225.80
.9375	15/16	.7495	8	2 5/8	10	344230	344330	344430	220.35	.9091 - .9410	275.95	248.10	238.70	234.25	229.65	225.80
.9688	31/32	.7495	8	2 5/8	10	344231	344331	344431	231.00	.9411 - .9720	286.65	258.75	249.50	245.15	240.20	236.55
1.0000	1	.8745	8	2 3/4	10 1/2	344232	344332	344432	231.00	.9721 - 1.0030	286.65	258.75	249.50	245.15	240.20	236.55
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	344234	344334	344434	271.55	1.0031 - 1.0660	327.20	299.25	289.95	285.60	280.75	277.00
1.1250	1 1/8	.8745	8	2 7/8	11	344236	344336	344436	280.00	1.0661 - 1.1280	335.50	307.65	298.30	294.05	289.30	285.50
1.1875	1 3/16	.9995	8	2 7/8	11	344238	344338	344438	294.25	1.1281 - 1.1905	349.85	322.00	312.80	308.30	303.55	299.85
1.2500	1 1/4	.9995	8	3	11 1/2	344240	344340	344440	311.45	1.1906 - 1.2530	367.00	339.25	329.90	325.55	320.65	316.95
1.3125	1 5/16	.9995	8	3	11 1/2	344242	344342	344442	344.60	1.2531 - 1.3155	400.20	372.35	363.00	358.65	353.80	350.00
1.3750	1 3/8	.9995	8	3 1/4	12	344244	344344	344444	377.60	1.3156 - 1.3780	433.00	405.25	396.05	391.45	386.80	383.00
1.4375	1 7/16	.9995	8	3 1/4	12	344246	344346	344446	400.10	1.3781 - 1.4405	455.45	427.65	418.35	414.05	409.30	405.50
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	344248	344348	344448	422.55	1.4406 - 1.5030	478.05	450.25	440.90	436.70	431.70	428.10

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CARBIDE TIPPED NAS 897 LEFT SPIRAL CHUCKING REAMERS

TYPE 3482 - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - FOR NON-FERROUS

TYPE 3483 - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - FOR CAST IRON

TYPE 3484 - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - FOR STEEL

Flute long carbide tips brazed to one piece hardened alloy steel bodies. Left spiral polished flutes.

Left spiral flutes should only be used on through holes and very hard materials. Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.

NAS 897 chucking reamers manufactured to national aerospace standards 897 C with flute long carbide. Tool geometry and carbide grade appropriate for material being machined.

For step reamers, see page 126. For longer overall length reamers, see page 122.



Shanks are ground to the next smallest shank diameter listed in NAS 897 if tool diameter is within .005" of shank diameter.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MAX SHANK DIAM.	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3482 EDP NO.	CAST IRON TYPE 3483 EDP NO.	STEEL TYPE 3484 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3125	5/16	.2792	4	1 1/2	6	348210	348310	348410	\$108.60	.2841 - .3150	\$162.20	\$135.20	\$126.40	\$122.05	\$117.50	\$113.90
.3438	11/32	.2792	4	1 1/2	6	348211	348311	348411	119.65	.3151 - .3470	173.10	146.30	137.45	133.15	128.55	124.95
.3750	3/8	.3105	4	1 3/4	7	348212	348312	348412	120.80	.3471 - .3780	174.25	147.55	138.50	134.20	129.60	125.95
.4062	13/32	.3105	4	1 3/4	7	348213	348313	348413	126.00	.3781 - .4090	179.60	152.90	143.80	139.60	134.90	131.40
.4375	7/16	.3730	6	1 3/4	7	348214	348314	348414	131.15	.4091 - .4410	184.40	157.75	148.80	144.55	139.90	136.35
.4688	15/32	.3730	6	1 3/4	7	348215	348315	348415	139.45	.4411 - .4720	192.95	166.00	157.00	152.90	148.15	144.65
.5000	1/2	.4355	6	2	8	348216	348316	348416	144.65	.4721 - .5030	199.65	172.10	162.80	158.45	153.60	150.00
.5312	17/32	.4355	6	2	8	348217	348317	348417	148.85	.5031 - .5340	203.75	176.15	167.00	162.55	158.00	154.20
.5625	9/16	.4355	6	2	8	348218	348318	348418	148.85	.5341 - .5660	203.75	176.15	167.00	162.55	158.00	154.20
.5938	19/32	.4355	6	2	8	348219	348319	348419	153.20	.5661 - .5970	208.10	180.50	171.40	167.00	162.35	158.50
.6250	5/8	.5615	6	2 1/4	9	348220	348320	348420	153.20	.5971 - .6280	208.10	180.50	171.40	167.00	162.35	158.50
.6562	21/32	.5615	6	2 1/4	9	348221	348321	348421	158.05	.6281 - .6590	213.00	185.50	176.15	171.95	167.15	163.40
.6875	11/16	.5615	6	2 1/4	9	348222	348322	348422	167.80	.6591 - .6910	222.65	195.25	185.95	181.75	176.90	173.10
.7188	23/32	.5615	6	2 1/4	9	348223	348323	348423	170.45	.6911 - .7220	225.25	197.70	188.55	184.20	179.45	175.75
.7500	3/4	.6245	6	2 1/2	9 1/2	348224	348324	348424	172.90	.7221 - .7530	227.90	200.45	191.15	186.70	182.10	178.35
.7812	25/32	.6245	6	2 1/2	9 1/2	348225	348325	348425	177.50	.7531 - .7840	232.50	204.95	195.70	191.45	186.65	182.90
.8125	13/16	.6245	6	2 1/2	9 1/2	348226	348326	348426	177.50	.7841 - .8160	232.50	204.95	195.70	191.45	186.65	182.90
.8438	27/32	.6245	6	2 1/2	9 1/2	348227	348327	348427	187.20	.8161 - .8470	242.00	214.45	205.20	200.80	196.20	192.45
.8750	7/8	.7495	6	2 5/8	10	348228	348328	348428	194.25	.8471 - .8780	251.20	222.60	213.10	208.55	203.60	199.75
.9062	29/32	.7495	6	2 5/8	10	348229	348329	348429	226.25	.8781 - .9090	283.20	254.65	245.15	240.70	235.70	231.85
.9375	15/16	.7495	8	2 5/8	10	348230	348330	348430	226.25	.9091 - .9410	283.20	254.65	245.15	240.70	235.70	231.85
.9688	31/32	.7495	8	2 5/8	10	348231	348331	348431	237.25	.9411 - .9720	294.25	265.75	256.25	251.65	246.75	243.00
1.0000	1	.8745	8	2 3/4	10 1/2	348232	348332	348432	237.25	.9721 - 1.0030	294.25	265.75	256.25	251.65	246.75	243.00
1.0625	1 1/16	.8745	8	2 3/4	10 1/2	348234	348334	348434	278.95	1.0031 - 1.0660	335.90	307.35	297.85	293.10	288.35	284.50
1.1250	1 1/8	.8745	8	2 7/8	11	348236	348336	348436	287.60	1.0661 - 1.1280	344.55	316.05	306.30	301.85	296.95	293.05
1.1875	1 3/16	.9995	8	2 7/8	11	348238	348338	348438	302.25	1.1281 - 1.1905	359.20	330.65	321.10	316.50	311.60	307.75
1.2500	1 1/4	.9995	8	3	11 1/2	348240	348340	348440	319.95	1.1906 - 1.2530	376.80	348.30	338.70	334.10	329.30	325.55
1.3125	1 5/16	.9995	8	3	11 1/2	348242	348342	348442	353.80	1.2531 - 1.3155	410.85	382.20	372.75	368.25	363.30	359.50
1.3750	1 3/8	.9995	8	3 1/4	12	348244	348344	348444	387.70	1.3156 - 1.3780	444.65	416.20	406.55	401.95	397.20	393.20
1.4375	1 7/16	.9995	8	3 1/4	12	348246	348346	348446	410.75	1.3781 - 1.4405	467.70	439.05	429.60	425.10	420.20	416.35
1.5000	1 1/2	1.2495	8	3 1/2	12 1/2	348248	348348	348448	433.85	1.4406 - 1.5030	490.85	462.35	452.90	448.15	443.35	439.65

CARBIDE TIPPED NAS 897 RIGHT SPIRAL CHUCKING REAMERS

TYPE 3432 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - FOR NON-FERROUS

TYPE 3436 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - FOR CAST IRON

TYPE 3438 - STRAIGHT SHANK - RIGHT SPIRAL FLUTES - FOR STEEL

Carbide tips brazed to one piece hardened alloy steel bodies. Right spiral polished flutes.

Right spiral flutes have a greater chip clearing ability for use in blind holes. Finishes are much better as spiral flutes tend to bridge interruptions such as keyways, slots or intersecting holes.

NAS 897 chucking reamers manufactured to national aerospace standards 897 C with partial flute length carbide. Tool geometry and carbide grade appropriate for material being machined.



Shanks are ground to the next smallest shank diameter listed in NAS 897 if tool diameter is within .005" of shank diameter.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MAX SHANK DIAM.	NO. OF FLTS.	LENGTH			NON-FERR. TYPE 3432 EDP NO.	CAST IRON TYPE 3436 EDP NO.	STEEL TYPE 3438 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRAC.			FLT	CARB	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1875	3/16	.1805	4	1 1/8	1/2	4 1/2	343206	343606	343806	\$84.70	.1770 - .2040	\$134.85	\$109.75	\$101.25	\$97.35	\$93.00	\$89.70
.2188	7/32	.2075	4	1 1/4	1/2	5	343207	343607	343807	84.70	.2041 - .2210	134.85	109.75	101.25	97.35	93.00	89.70
.2344	15/64	.2265	4	1 1/2	1/2	6	34322344	34362344	34382344	84.70	.2211 - .2380	134.85	109.75	101.25	97.35	93.00	89.70
.2500	1/4	.2405	4	1 1/2	1/2	6	343208	343608	343808	84.70	.2381 - .2530	134.85	109.75	101.25	97.35	93.00	89.70
.2812	9/32	.2485	4	1 1/2	1/2	6	343209	343609	343809	84.85	.2531 - .2840	135.00	110.00	101.50	97.60	93.20	89.85
.3125	5/16	.2792	4	1 1/2	1/2	6	343210	343610	343810	84.85	.2841 - .3150	135.00	110.00	101.50	97.60	93.20	89.85
.3438	11/32	.2792	4	1 1/2	5/8	6	343211	343611	343811	93.50	.3151 - .3470	143.65	118.60	110.15	106.25	101.85	98.35
.3750	3/8	.3105	4	1 3/4	5/8	7	343212	343612	343812	94.35	.3471 - .3780	144.50	119.35	110.90	106.95	102.65	99.25
.4062	13/32	.3105	4	1 3/4	5/8	7	343213	343613	343813	98.55	.3781 - .4090	148.70	123.50	115.15	111.05	106.85	103.50
.4375	7/16	.3730	6	1 3/4	5/8	7	343214	343614	343814	102.40	.4091 - .4410	152.45	127.30	118.95	115.00	110.70	107.25
.4688	15/32	.3730	6	1 3/4	5/8	7	343215	343615	343815	108.85	.4411 - .4720	159.15	133.90	125.50	121.50	117.20	113.90
.5000	1/2	.4355	6	2	5/8	8	343216	343616	343816	117.25	.4721 - .5030	170.80	143.85	134.90	130.60	126.00	122.40
.5312	17/32	.4355	6	2	5/8	8	343217	343617	343817	120.80	.5031 - .5340	174.25	147.55	138.50	134.20	129.60	125.95
.5625	9/16	.4355	6	2	5/8	8	343218	343618	343818	120.80	.5341 - .5660	174.25	147.55	138.50	134.20	129.60	125.95
.5938	19/32	.4355	6	2	5/8	8	343219	343619	343819	124.55	.5661 - .5970	178.00	151.15	142.10	137.90	133.30	129.70
.6250	5/8	.5615	6	2 1/4	5/8	9	343220	343620	343820	124.55	.5971 - .6280	178.00	151.15	142.10	137.90	133.30	129.70
.6562	21/32	.5615	6	2 1/4	5/8	9	343221	343621	343821	128.30	.6281 - .6590	181.75	154.90	145.95	141.65	136.95	133.35
.6875	11/16	.5615	6	2 1/4	5/8	9	343222	343622	343822	136.35	.6591 - .6910	189.80	162.90	154.05	149.70	145.10	141.55
.7188	23/32	.5615	6	2 1/4	5/8	9	343223	343623	343823	138.45	.6911 - .7220	191.80	165.10	156.15	151.85	147.25	143.65
.7500	3/4	.6245	6	2 1/2	3/4	9 1/2	343224	343624	343824	140.35	.7221 - .7530	193.85	167.00	158.05	153.90	149.25	145.65
.7812	25/32	.6245	6	2 1/2	3/4	9 1/2	343225	343625	343825	144.20	.7531 - .7840	197.60	170.85	161.90	157.65	153.05	149.40
.8125	13/16	.6245	6	2 1/2	3/4	9 1/2	343226	343626	343826	144.20	.7841 - .8160	197.60	170.85	161.90	157.65	153.05	149.40
.8438	27/32	.6245	6	2 1/2	3/4	9 1/2	343227	343627	343827	151.85	.8161 - .8470	205.20	178.60	169.55	165.35	160.65	157.00
.8750	7/8	.7495	6	2 5/8	3/4	10	343228	343628	343828	157.60	.8471 - .8780	213.10	185.35	176.00	171.45	166.70	162.90
.9062	29/32	.7495	6	2 5/8	3/4	10	343229	343629	343829	183.60	.8781 - .9090	239.05	211.15	201.90	197.55	192.75	189.10
.9375	15/16	.7495	8	2 5/8	3/4	10	343230	343630	343830	183.60	.9091 - .9410	239.05	211.15	201.90	197.55	192.75	189.10
.9688	31/32	.7495	8	2 5/8	3/4	10	343231	343631	343831	192.55	.9411 - .9720	248.10	220.30	210.85	206.50	201.65	197.85
1.0000	1	.8745	8	2 3/4	3/4	10 1/2	343232	343632	343832	192.55	.9721 - 1.0030	248.10	220.30	210.85	206.50	201.65	197.85
1.0625	1 1/16	.8745	8	2 3/4	3/4	10 1/2	343234	343634	343834	206.55	1.0031 - 1.0660	262.05	234.25	224.95	220.60	215.85	212.00
1.1250	1 1/8	.8745	8	2 7/8	7/8	11	343236	343636	343836	213.00	1.0661 - 1.1280	268.60	240.70	231.40	226.90	222.20	218.30
1.1875	1 3/16	.9995	8	2 7/8	7/8	11	343238	343638	343838	223.75	1.1281 - 1.1905	279.25	251.40	242.15	237.75	232.85	229.10
1.2500	1 1/4	.9995	8	3	7/8	11 1/2	343240	343640	343840	236.95	1.1906 - 1.2530	292.50	264.65	255.40	250.70	246.10	242.35
1.3125	1 5/16	.9995	8	3	7/8	11 1/2	343242	343642	343842	262.05	1.2531 - 1.3155	317.55	289.75	280.55	276.10	271.35	267.60
1.3750	1 3/8	.9995	8	3 1/4	7/8	12	343244	343644	343844	287.00	1.3156 - 1.3780	342.55	314.80	305.45	301.00	296.25	292.55
1.4375	1 7/16	.9995	8	3 1/4	7/8	12	343246	343646	343846	304.20	1.3781 - 1.4405	359.70	331.90	322.60	318.25	313.35	309.60
1.5000	1 1/2	1.2495	8	3 1/2	7/8	12 1/2	343248	343648	343848	321.40	1.4406 - 1.5030	376.80	349.00	339.65	335.25	330.45	326.70

CARBIDE TIPPED NAS 897 LEFT SPIRAL CHUCKING REAMERS

TYPE 3433 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - FOR NON-FERROUS
TYPE 3437 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - FOR CAST IRON
TYPE 3439 - STRAIGHT SHANK - LEFT SPIRAL FLUTES - FOR STEEL

Carbide tips brazed to one piece hardened alloy steel bodies. Left spiral polished flutes.

Left spiral flutes should only be used on through holes and very hard materials.
 Finishes are much better as spiral flutes tend to bridge interruptions
 such as keyways, slots or intersecting holes.

NAS 897 chucking reamers manufactured to national aerospace standards
 897 C with partial flute length carbide. Tool geometry and carbide
 grade appropriate for material being machined.



Shanks are ground to the next smallest shank diameter listed in NAS 897
 if tool diameter is within .005" of shank diameter.

For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MAX SHANK DIAM.	NO. OF FLTS.	LENGTH			NON-FERR. TYPE 3433 EDP NO.	CAST IRON TYPE 3437 EDP NO.	STEEL TYPE 3439 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT.	CARB.	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.1875	3/16	.1805	4	1 1/8	1/2	4 1/2	343306	343706	343906	\$90.30	.1770-.2040	\$143.80	\$117.05	\$108.10	\$103.80	\$99.25	\$95.60
.2188	7/32	.2075	4	1 1/4	1/2	5	343307	343707	343907	90.30	.2041-.2210	143.80	117.05	108.10	103.80	99.25	95.60
.2344	15/64	.2265	4	1 1/2	1/2	6	34332344	34372344	34392344	90.30	.2211-.2380	143.80	117.05	108.10	103.80	99.25	95.60
.2500	1/4	.2405	4	1 1/2	1/2	6	343308	343708	343908	90.30	.2381-.2530	143.80	117.05	108.10	103.80	99.25	95.60
.2812	9/32	.2485	4	1 1/2	1/2	6	343309	343709	343909	90.60	.2531-.2840	144.10	117.25	108.40	103.95	99.40	95.90
.3125	5/16	.2792	4	1 1/2	1/2	6	343310	343710	343910	90.60	.2841-.3150	144.10	117.25	108.40	103.95	99.40	95.90
.3438	11/32	.2792	4	1 1/2	5/8	6	343311	343711	343911	99.65	.3151-.3470	153.20	126.55	117.50	113.15	108.60	105.10
.3750	3/8	.3105	4	1 3/4	5/8	7	343312	343712	343912	100.65	.3471-.3780	154.15	127.30	118.35	114.05	109.45	105.80
.4062	13/32	.3105	4	1 3/4	5/8	7	343313	343713	343913	105.15	.3781-.4090	158.50	131.85	122.85	118.60	114.00	110.40
.4375	7/16	.3730	6	1 3/4	5/8	7	343314	343714	343914	109.25	.4091-.4410	162.55	135.80	126.95	122.70	117.95	114.45
.4688	15/32	.3730	6	1 3/4	5/8	7	343315	343715	343915	116.05	.4411-.4720	169.65	142.95	133.90	129.60	125.00	121.40
.5000	1/2	.4355	6	2	5/8	8	343316	343716	343916	120.35	.4721-.5030	175.30	147.80	138.60	134.20	129.55	125.80
.5312	17/32	.4355	6	2	5/8	8	343317	343717	343917	124.00	.5031-.5340	178.90	151.30	142.10	137.80	133.15	129.30
.5625	9/16	.4355	6	2	5/8	8	343318	343718	343918	124.00	.5341-.5660	178.90	151.30	142.10	137.80	133.15	129.30
.5938	19/32	.4355	6	2	5/8	8	343319	343719	343919	127.85	.5661-.5970	182.75	155.15	146.00	141.65	136.90	133.20
.6250	5/8	.5615	6	2 1/4	5/8	9	343320	343720	343920	127.85	.5971-.6280	182.75	155.15	146.00	141.65	136.90	133.20
.6562	21/32	.5615	6	2 1/4	5/8	9	343321	343721	343921	131.60	.6281-.6590	186.55	159.05	149.75	145.35	140.65	136.95
.6875	11/16	.5615	6	2 1/4	5/8	9	343322	343722	343922	139.95	.6591-.6910	194.85	167.40	158.15	153.60	149.10	145.25
.7188	23/32	.5615	6	2 1/4	5/8	9	343323	343723	343923	142.05	.6911-.7220	197.00	169.45	160.30	156.00	151.15	147.55
.7500	3/4	.6245	6	2 1/2	3/4	9 1/2	343324	343724	343924	144.10	.7221-.7530	199.00	171.45	162.35	158.00	153.20	149.45
.7812	25/32	.6245	6	2 1/2	3/4	9 1/2	343325	343725	343925	148.00	.7531-.7840	202.95	175.45	166.25	161.80	157.15	153.40
.8125	13/16	.6245	6	2 1/2	3/4	9 1/2	343326	343726	343926	148.00	.7841-.8160	202.95	175.45	166.25	161.80	157.15	153.40
.8438	27/32	.6245	6	2 1/2	3/4	9 1/2	343327	343727	343927	156.00	.8161-.8470	210.85	183.35	174.00	169.70	164.95	161.25
.8750	7/8	.7495	6	2 5/8	3/4	10	343328	343728	343928	161.80	.8471-.8780	218.90	190.25	180.50	176.15	171.15	167.35
.9062	29/32	.7495	6	2 5/8	3/4	10	343329	343729	343929	188.50	.8781-.9090	245.45	216.90	207.40	202.80	197.85	194.10
.9375	15/16	.7495	8	2 5/8	3/4	10	343330	343730	343930	188.50	.9091-.9410	245.45	216.90	207.40	202.80	197.85	194.10
.9688	31/32	.7495	8	2 5/8	3/4	10	343331	343731	343931	197.60	.9411-.9720	254.65	226.20	216.60	212.00	207.10	203.30
1.0000	1	.8745	8	2 3/4	3/4	10 1/2	343332	343732	343932	197.60	.9721-1.0030	254.65	226.20	216.60	212.00	207.10	203.30
1.0625	1 1/16	.8745	8	2 3/4	3/4	10 1/2	343334	343734	343934	212.10	1.0031-1.0660	269.05	240.70	230.95	226.40	221.50	217.70
1.1250	1 1/8	.8745	8	2 7/8	7/8	11	343336	343736	343936	218.70	1.0661-1.1280	275.70	247.10	237.55	232.95	228.10	224.30
1.1875	1 3/16	.9995	8	2 7/8	7/8	11	343338	343738	343938	229.80	1.1281-1.1905	286.75	258.25	248.60	244.05	239.20	235.30
1.2500	1 1/4	.9995	8	3	7/8	11 1/2	343340	343740	343940	243.20	1.1906-1.2530	300.15	271.70	262.05	257.60	252.65	248.75
1.3125	1 5/16	.9995	8	3	7/8	11 1/2	343342	343742	343942	269.05	1.2531-1.3155	326.15	297.70	287.95	283.55	278.45	274.80
1.3750	1 3/8	.9995	8	3 1/4	7/8	12	343344	343744	343944	294.80	1.3156-1.3780	351.80	323.15	313.60	309.15	304.20	300.30
1.4375	1 7/16	.9995	8	3 1/4	7/8	12	343346	343746	343946	312.45	1.3781-1.4405	369.20	340.80	331.30	326.60	321.80	317.95
1.5000	1 1/2	1.2495	8	3 1/2	7/8	12 1/2	343348	343748	343948	330.05	1.4406-1.5030	387.00	358.35	348.85	344.30	339.40	335.50

CARBIDE TIPPED NAS 897 EXPANSION CHUCKING REAMERS

TYPE 3461 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR NON-FERROUS
TYPE 3462 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR CAST IRON
TYPE 3463 - TAPER SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR STEEL

Flute long carbide tips brazed to one piece alloy steel bodies. Straight polished flutes.
 Tool geometry and carbide grade appropriate for material being machined.

NAS 897 expansion reamers manufactured to national aerospace standards 897 C. Designed and manufactured for maximum tool life. Expansion reamers are recommended for reaming abrasive materials and as the diameter wears down, the reamer can be expanded many times by tightening the end adjusting screw and regrinding to its original size. Expansion reamers should not be considered adjustable for use in producing holes of several sizes.

TOOL DIAMETER	MINIMUM EXPANSION
5/16" - 15/32"	.006"
1/2" - 31/32"	.010"
1" - 1 1/2"	.013"
1 9/16" - 2 1/2"	.015"



For reamer tolerances and closer tolerance pricing, see page 60.

TOOL DIAMETER		MORSE TAPER	NO. OF FLTS.	LENGTH		NON-FERR. TYPE 3461 EDP NO.	CAST IRON TYPE 3462 EDP NO.	STEEL TYPE 3463 EDP NO.	ALL TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRACTIONAL			FLT.	OAL						1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3750	3/8	1	4	1	7	346112	346212	346312	\$130.45	.3471 - .3780	\$180.50	\$155.45	\$147.10	\$143.10	\$138.75	\$135.35
.4062	13/32	1	4	1	7	346113	346213	346313	132.45	.3781 - .4090	182.50	157.45	149.10	145.00	140.65	137.30
.4375	7/16	1	6	1	7	346114	346214	346314	134.45	.4091 - .4410	184.40	159.35	151.00	147.00	142.70	139.35
.4688	15/32	1	6	1	7	346115	346215	346315	140.10	.4411 - .4720	190.30	165.35	156.65	152.75	148.55	145.10
.5000	1/2	1	6	1	8	346116	346216	346316	141.05	.4721 - .5030	191.15	166.00	157.65	153.55	149.30	145.95
.5312	17/32	1	6	1	8	346117	346217	346317	145.35	.5031 - .5340	195.55	170.45	162.10	158.05	153.60	150.30
.5625	9/16	1	6	1 1/8	8	346118	346218	346318	145.35	.5341 - .5660	195.55	170.45	162.10	158.05	153.60	150.30
.5938	19/32	1	6	1 1/8	8	346119	346219	346319	150.90	.5661 - .5970	200.90	175.85	167.55	163.50	159.20	155.90
.6250	5/8	2	6	1 1/4	9	346120	346220	346320	151.25	.5971 - .6280	201.45	176.30	167.85	163.90	159.60	156.20
.6562	21/32	2	6	1 1/4	9	346121	346221	346321	164.25	.6281 - .6590	214.45	189.25	180.90	176.90	172.60	169.25
.6875	11/16	2	6	1 1/4	9	346122	346222	346322	164.70	.6591 - .6910	215.00	189.95	181.30	177.30	173.00	169.70
.7188	23/32	2	6	1 1/4	9	346123	346223	346323	170.80	.6911 - .7220	221.00	195.70	187.35	183.35	179.00	175.70
.7500	3/4	2	6	1 3/8	9 1/2	346124	346224	346324	170.80	.7221 - .7530	221.00	195.70	187.35	183.35	179.00	175.70
.7812	25/32	2	6	1 3/8	9 1/2	346125	346225	346325	183.20	.7531 - .7840	233.50	208.25	199.85	195.85	191.55	188.25
.8125	13/16	2	6	1 3/8	9 1/2	346126	346226	346326	183.20	.7841 - .8160	233.50	208.25	199.85	195.85	191.55	188.25
.8438	27/32	2	6	1 3/8	9 1/2	346127	346227	346327	190.85	.8161 - .8470	241.05	215.90	207.40	203.45	199.05	195.70
.8750	7/8	2	6	1 1/2	10	346128	346228	346328	197.90	.8471 - .8780	250.20	223.95	215.25	211.10	206.65	203.05
.9062	29/32	2	6	1 1/2	10	346129	346229	346329	208.65	.8781 - .9090	260.55	234.45	225.80	221.65	217.25	213.60
.9375	15/16	3	8	1 1/2	10	346130	346230	346330	209.65	.9091 - .9410	261.70	235.70	226.90	222.75	218.20	214.85
.9688	31/32	3	8	1 1/2	10	346131	346231	346331	217.05	.9411 - .9720	269.05	243.05	234.25	230.10	225.65	222.20
1.0000	1	3	8	1 5/8	10 1/2	346132	346232	346332	217.05	.9721 - 1.0030	269.05	243.05	234.25	230.10	225.65	222.20
1.0312	1 1/32	3	8	1 5/8	10 1/2	346133	346233	346333	230.85	-	-	-	-	-	-	
1.0625	1 1/16	3	8	1 5/8	10 1/2	346134	346234	346334	230.85	1.0031 - 1.0660	282.90	256.85	248.25	244.05	239.60	236.00
1.0938	1 3/32	3	8	1 3/4	11	346135	346235	346335	237.75	-	-	-	-	-	-	
1.1250	1 1/8	3	8	1 3/4	11	346136	346236	346336	237.75	1.0661 - 1.1280	289.65	263.60	254.80	250.65	246.30	242.75
1.1875	1 3/16	3	8	1 3/4	11	346138	346238	346338	253.55	1.1281 - 1.1905	305.70	279.55	270.80	266.65	262.15	258.70
1.2500	1 1/4	4	8	1 7/8	11 1/2	346140	346240	346340	270.80	1.1906 - 1.2530	322.95	296.80	287.95	283.85	279.45	276.00
1.3125	1 3/16	4	8	1 7/8	11 1/2	346142	346242	346342	281.00	1.2531 - 1.3155	333.10	307.05	298.25	294.10	289.65	286.05
1.3750	1 3/8	4	8	2	12	346144	346244	346344	311.60	1.3156 - 1.3780	363.80	337.65	329.05	324.85	320.30	316.85
1.4375	1 7/16	4	8	2	12	346146	346246	346346	345.40	1.3781 - 1.4405	401.05	373.00	363.85	359.40	354.60	350.85
1.5000	1 1/2	4	8	2 1/8	12 1/2	346148	346248	346348	355.80	1.4406 - 1.5030	411.40	383.50	374.30	369.85	365.10	361.35
1.5625	1 9/16	4	8	2 1/8	12 1/2	346150	346250	346350	498.60	1.5031 - 1.5660	554.20	526.30	516.75	512.50	507.80	504.05
1.6250	1 5/8	4	8	2 1/4	13	346152	346252	346352	498.60	1.5661 - 1.6280	554.20	526.30	516.75	512.50	507.80	504.05
1.6875	1 11/16	4	8	2 1/4	13	346154	346254	346354	552.40	1.6281 - 1.6910	608.00	580.10	570.75	566.30	561.60	557.80
1.7500	1 3/4	4	10	2 3/8	13 1/2	346156	346256	346356	552.40	1.6911 - 1.7530	608.00	580.10	570.75	566.30	561.60	557.80
1.8125	1 13/16	4	10	2 3/8	13 1/2	346158	346258	346358	654.00	1.7531 - 1.8160	709.55	681.80	672.45	668.00	663.20	659.50
1.8750	1 7/8	4	10	2 1/2	14	346160	346260	346360	654.00	1.8161 - 1.8780	709.55	681.80	672.45	668.00	663.20	659.50
1.9375	1 15/16	4	10	2 1/2	14	346162	346262	346362	714.20	1.8781 - 1.9410	769.70	741.90	732.60	728.25	723.50	719.75
2.0000	2	4	12	2 1/2	14	346164	346264	346364	714.20	1.9411 - 2.0030	769.70	741.90	732.60	728.25	723.50	719.75

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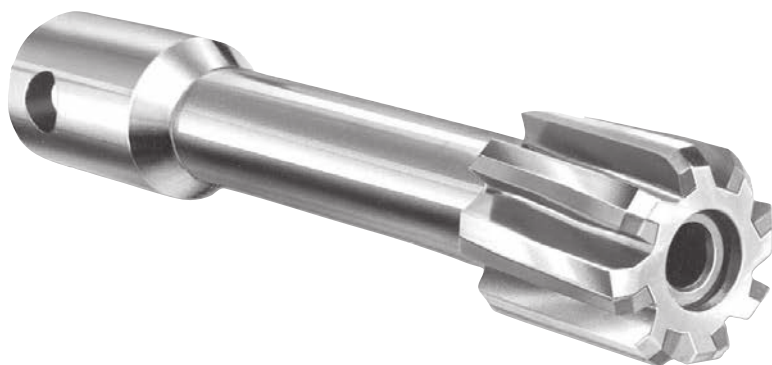
*Quantities of 15 or more: price of fractional size in same size range.

CARBIDE TIPPED COOLANT REAMERS

TYPE 3490 - RIGHT SPIRAL FLUTE LONG CARBIDE

Flute long carbide tips brazed to one piece hardened alloy steel bodies.

Similar to Barber-Colman/Metcut OFC reamer. Full length coolant hole. Right spiral polished flutes: 2° to 5°. Positive face rake angles (behind center). Shank cross hole for use in floating holder. Designed and manufactured to cut smooth accurate holes and maximize tool life.



Tool diameter tolerance: +.0003"/-.0000".
For closer tolerance pricing, see page 60.

TOOL DIAMETER		SHANK DIAM.	SHANK LEN.	NO. OF FLUTES	LENGTH		EDP NO.	PRICE EACH	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DECIMAL	FRAC.				FLT	OAL				1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14*
.3750	3/8	3/8	3/4	6	1/2	2 1/2	349012	\$178.20	.3181 - .3800	\$288.05	\$232.95	\$214.60	\$205.90	\$196.45	\$189.00
.4062	13/32	3/8	3/4	6	1/2	2 5/8	349013	180.90	.3801 - .4090	290.75	235.70	217.25	208.40	199.00	191.60
.4375	7/16	3/8	3/4	6	1/2	2 5/8	349014	180.90	.4091 - .4410	290.75	235.70	217.25	208.40	199.00	191.60
.4688	15/32	5/8	1	6	5/8	3 1/2	349015	185.80	.4411 - .4720	295.65	240.70	222.30	213.40	203.90	196.55
.5000	1/2	5/8	1	6	5/8	3 1/2	349016	185.80	.4721 - .5050	295.65	240.70	222.30	213.40	203.90	196.55
.5625	9/16	5/8	1	6	3/4	3 3/4	349018	203.05	.5051 - .5660	312.90	257.75	239.45	230.70	221.30	213.85
.6250	5/8	5/8	1	6	3/4	3 3/4	349020	203.05	.5661 - .6300	312.90	257.75	239.45	230.70	221.30	213.85
.6875	11/16	5/8	1	6	3/4	4 1/4	349022	225.25	.6301 - .6910	335.20	280.15	261.75	252.85	243.50	236.00
.7500	3/4	5/8	1	6	3/4	4 1/4	349024	225.25	.6911 - .7550	335.20	280.15	261.75	252.85	243.50	236.00
.8125	13/16	5/8	1	6	7/8	4 3/4	349026	237.60	.7551 - .8160	347.55	292.55	274.00	265.20	255.85	248.50
.8750	7/8	5/8	1	6	7/8	4 3/4	349028	246.60	.8161 - .8800	360.70	303.55	284.35	275.25	265.60	257.75
.9375	15/16	1	1 1/2	8	1	5 1/2	349030	295.55	.8801 - .9410	409.55	352.50	333.35	324.25	314.50	306.75
1.0000	1	1	1 1/2	8	1	5 1/2	349032	295.55	.9411 - 1.0050	409.55	352.50	333.35	324.25	314.50	306.75
1.0625	1 1/16	1	1 1/2	8	1 1/4	6	349034	327.15	1.0051 - 1.0660	445.95	386.30	366.55	356.95	346.70	338.70
1.1250	1 1/8	1	1 1/2	8	1 1/4	6	349036	327.15	1.0661 - 1.1300	445.95	386.30	366.55	356.95	346.70	338.70
1.1875	1 3/16	1	1 1/2	8	1 1/4	6	349038	335.20	1.1301 - 1.1900	454.15	394.50	374.60	365.10	354.95	346.75
1.2500	1 1/4	1	1 1/2	8	1 1/4	6	349040	335.20	1.1901 - 1.2550	454.15	394.50	374.60	365.10	354.95	346.75
1.3125	1 5/16	1	1 1/2	8	1 1/4	6	349042	359.40	1.2551 - 1.3155	478.35	418.75	398.75	389.25	379.05	371.05
1.3750	1 3/8	1	1 1/2	8	1 1/4	6	349044	359.40	1.3156 - 1.3800	478.35	418.75	398.75	389.25	379.05	371.05
1.4375	1 7/16	1	1 1/2	8	1 1/4	6	349046	383.50	1.3801 - 1.4405	502.50	442.80	422.80	413.45	403.25	395.15
1.5000	1 1/2	1	1 1/2	8	1 1/4	6	349048	383.50	1.4406 - 1.5050	502.50	442.80	422.80	413.45	403.25	395.15
1.5625	1 9/16	1	1 1/2	10	1 1/4	6	349050	402.20	1.5051 - 1.5660	521.15	461.50	441.65	432.10	421.90	413.90
1.6250	1 5/8	1	1 1/2	10	1 1/4	6	349052	402.20	1.5661 - 1.6300	521.15	461.50	441.65	432.10	421.90	413.90
1.6875	1 11/16	1	1 1/2	10	1 1/4	6	349054	426.40	1.6301 - 1.6910	545.35	485.75	465.90	456.30	446.10	438.05
1.7500	1 3/4	1	1 1/2	10	1 1/4	6	349056	426.40	1.6911 - 1.7550	545.35	485.75	465.90	456.30	446.10	438.05
1.8125	1 13/16	1	1 1/2	10	1 1/4	6	349058	447.80	1.7551 - 1.8160	566.85	507.10	487.20	477.75	467.55	459.45
1.8750	1 7/8	1	1 1/2	10	1 1/4	6	349060	447.80	1.8161 - 1.8800	566.85	507.10	487.20	477.75	467.55	459.45
1.9375	1 15/16	1	1 1/2	10	1 1/4	6	349062	469.35	1.8801 - 1.9410	588.05	528.50	508.65	499.15	488.80	481.00
2.0000	2	1	1 1/2	10	1 1/4	6	349064	469.35	1.9411 - 2.0150	588.05	528.50	508.65	499.15	488.80	481.00

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*Quantities of 15 or more: price of fractional size in same size range.

Made in U.S.A.

CARBIDE TIPPED VARIABLE LENGTH REAMERS

TYPE 3457EL - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR NON-FERROUS

TYPE 3458EL - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR CAST IRON

TYPE 3459EL - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - FOR STEEL

Same as types 3457, 3458, and 3459 on page 94 except with variable overall lengths.
When ordering, specify desired length within overall length range.
Eliminates need to special order reamers, saving time and money. These reamers have a controlled shank.



For reamer tolerances and closer tolerance pricing, see page 60.

DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	NON-FERR. TYPE 3457EL EDP NO.	CAST IRON TYPE 3458EL EDP NO.	STEEL TYPE 3459EL EDP NO.	OVERALL LENGTH RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14
.1121 - .1280 *	.1099	4	1 1/2	345704FL	345804FL	345904FL	2 9/32 - 6	\$385.10	\$337.25	\$321.15	\$313.60	\$305.45	\$298.95
.1281 - .1435 *	.1255	4	1 1/2	3457045FL	3458045FL	3459045FL	2 17/32 - 6 1/2	386.40	338.65	322.60	314.90	306.70	300.30
.1436 - .1590 *	.1411	4	1 1/2	345705FL	345805FL	345905FL	2 17/32 - 7	392.85	344.90	328.90	321.25	313.10	306.60
.1591 - .1750 *	.1567	4	1 1/2	3457055FL	3458055FL	3459055FL	2 25/32 - 8	400.25	352.30	336.40	328.75	320.55	314.10
.1751 - .1910 *	.1724	4	1 1/2	345706FL	345806FL	345906FL	4 17/32 - 9	410.85	363.00	346.90	339.40	331.15	324.70
.1911 - .2210 *	.1880	4	1 1/2	345707FL	345807FL	345907FL	5 1/32 - 10	424.65	376.95	360.95	353.30	345.00	338.65
.2211 - .2530 *	.2193	4	1 1/2	345708FL	345808FL	345908FL	6 1/32 - 12	452.15	404.25	388.40	380.70	372.50	366.10
.2531 - .2840 *	.2505	4	1 1/2	345709FL	345809FL	345909FL	6 1/32 - 12	475.70	427.95	411.90	404.20	396.05	389.45
.2841 - .3150	.2792	4	1 1/2	345710FL	345810FL	345910FL	6 1/32 - 12	337.55	289.75	273.80	266.05	257.85	251.50
.3151 - .3470	.2792	4	1 1/2	345711FL	345811FL	345911FL	6 1/32 - 12	337.55	289.75	273.80	266.05	257.85	251.50
.3471 - .3780	.3105	4	1 3/4	345712FL	345812FL	345912FL	7 1/32 - 14	348.60	300.85	284.85	277.10	268.95	262.45
.3781 - .4090	.3105	4	1 3/4	345713FL	345813FL	345913FL	7 1/32 - 14	348.60	300.85	284.85	277.10	268.95	262.45
.4091 - .4410	.3730	6	1 3/4	345714FL	345814FL	345914FL	7 1/32 - 14	359.70	311.80	295.85	288.15	280.00	273.50
.4411 - .4720	.3730	6	1 3/4	345715FL	345815FL	345915FL	7 1/32 - 14	359.70	311.80	295.85	288.15	280.00	273.50
.4721 - .5030	.4355	6	2	345716FL	345816FL	345916FL	8 1/32 - 16	367.15	319.15	303.25	295.65	287.50	281.00
.5031 - .5340	.4355	6	2	345717FL	345817FL	345917FL	8 1/32 - 16	367.15	319.15	303.25	295.65	287.50	281.00
.5341 - .5660	.4355	6	2	345718FL	345818FL	345918FL	8 1/32 - 16	374.00	326.05	310.15	302.45	294.25	287.80
.5661 - .5970	.4355	6	2	345719FL	345819FL	345919FL	8 1/32 - 16	374.00	326.05	310.15	302.45	294.25	287.80
.5971 - .6280	.5615	6	2 1/4	345720FL	345820FL	345920FL	9 1/32 - 18	381.85	333.95	317.95	310.35	302.25	295.70
.6281 - .6590	.5615	6	2 1/4	345721FL	345821FL	345921FL	9 1/32 - 18	381.85	333.95	317.95	310.35	302.25	295.70
.6591 - .6910	.5615	6	2 1/4	345722FL	345822FL	345922FL	9 1/32 - 18	382.95	335.10	319.00	311.45	303.25	296.80
.6911 - .7220	.5615	6	2 1/4	345723FL	345823FL	345923FL	9 1/32 - 18	382.95	335.10	319.00	311.45	303.25	296.80
.7221 - .7530	.6245	6	2 1/2	345724FL	345824FL	345924FL	9 17/32 - 18	411.05	363.15	347.05	339.55	331.45	324.90
.7531 - .7840	.6245	6	2 1/2	345725FL	345825FL	345925FL	9 17/32 - 18	498.85	453.25	437.90	430.75	422.95	416.80
.7841 - .8160	.6245	6	2 1/2	345726FL	345826FL	345926FL	9 17/32 - 18	514.70	469.10	453.85	446.65	438.80	432.70
.8161 - .8470	.6245	6	2 1/2	345727FL	345827FL	345927FL	9 17/32 - 18	520.70	475.10	459.75	452.55	444.80	438.65
.8471 - .8780	.7495	6	2 5/8	345728FL	345828FL	345928FL	10 1/32 - 18	531.70	486.05	470.80	463.60	455.75	449.55
.8781 - .9090	.7495	6	2 5/8	345729FL	345829FL	345929FL	10 1/32 - 18	554.05	508.40	493.15	485.95	478.15	472.00
.9091 - .9410	.7495	8	2 5/8	345730FL	345830FL	345930FL	10 1/32 - 18	559.60	513.95	498.70	491.50	483.65	477.60
.9411 - .9720	.7495	8	2 5/8	345731FL	345831FL	345931FL	10 1/32 - 18	564.90	519.30	504.05	496.85	489.05	482.90
.9721 - 1.0030	.8745	8	2 3/4	345732FL	345832FL	345932FL	10 17/32 - 18	578.10	532.50	517.25	510.05	502.15	496.00

CARBIDE TIPPED VARIABLE LENGTH COOLANT REAMERS

TYPE 3416EL - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - THROUGH HOLES - FOR NON-FERROUS

TYPE 3426EL - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - THROUGH HOLES - FOR CAST IRON

TYPE 3435EL - STRAIGHT SHANK - STRAIGHT FLUTE LONG CARBIDE - THROUGH HOLES - FOR STEEL

Same as types 3416, 3426, and 3435 on page 108 except with variable overall lengths.
 When ordering, specify desired length within overall length range.
 Eliminates need to special order reamers, saving time and money.
 These reamers have a controlled shank and coolant through the flutes.



For reamer tolerances and closer tolerance pricing, see page 60.

DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	NON-FERR. TYPE 3416EL EDP NO.	CAST IRON TYPE 3426EL EDP NO.	STEEL TYPE 3435EL EDP NO.	OVERALL LENGTH RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14
.1751 - .1910 *	.1724	4	1 1/2	341606EL	342606EL	343506EL	4 17/32 - 9	\$491.55	\$443.75	\$427.65	\$420.05	\$411.90	\$405.40
.1911 - .2210 *	.1880	4	1 1/2	341607EL	342607EL	343507EL	5 1/2 - 10	510.50	462.60	446.55	438.95	430.85	424.35
.2211 - .2530 *	.2193	4	1 1/2	341608EL	342608EL	343508EL	6 1/2 - 12	567.15	519.30	503.20	495.70	487.35	481.00
.2531 - .2840 *	.2505	4	1 1/2	341609EL	342609EL	343509EL	6 1/2 - 12	594.65	546.75	530.70	523.15	514.85	508.40
.2841 - .3150	.2792	4	1 1/2	341610EL	342610EL	343510EL	6 1/2 - 12	439.75	391.90	375.80	368.25	359.95	353.60
.3151 - .3470	.2792	4	1 1/2	341611EL	342611EL	343511EL	6 1/2 - 12	439.75	391.90	375.80	368.25	359.95	353.60
.3471 - .3780	.3105	4	1 3/4	341612EL	342612EL	343512EL	7 1/2 - 14	448.35	400.50	384.55	376.95	368.70	362.30
.3781 - .4090	.3105	4	1 3/4	341613EL	342613EL	343513EL	7 1/2 - 14	448.35	400.50	384.55	376.95	368.70	362.30
.4091 - .4410	.3730	6	1 3/4	341614EL	342614EL	343514EL	7 1/2 - 14	450.25	402.35	386.30	378.80	370.55	364.15
.4411 - .4720	.3730	6	1 3/4	341615EL	342615EL	343515EL	7 1/2 - 14	450.25	402.35	386.30	378.80	370.55	364.15
.4721 - .5030	.4355	6	2	341616EL	342616EL	343516EL	8 1/2 - 16	489.80	441.90	425.95	418.30	410.10	403.65
.5031 - .5340	.4355	6	2	341617EL	342617EL	343517EL	8 1/2 - 16	489.80	441.90	425.95	418.30	410.10	403.65
.5341 - .5660	.4355	6	2	341618EL	342618EL	343518EL	8 1/2 - 16	493.25	445.40	429.40	421.75	413.55	407.00
.5661 - .5970	.4355	6	2	341619EL	342619EL	343519EL	8 1/2 - 16	493.25	445.40	429.40	421.75	413.55	407.00
.5971 - .6280	.5615	6	2 1/4	341620EL	342620EL	343520EL	9 1/2 - 18	503.00	455.15	439.05	431.45	423.25	416.80
.6281 - .6590	.5615	6	2 1/4	341621EL	342621EL	343521EL	9 1/2 - 18	503.00	455.15	439.05	431.45	423.25	416.80
.6591 - .6910	.5615	6	2 1/4	341622EL	342622EL	343522EL	9 1/2 - 18	508.40	460.60	444.55	436.90	428.70	422.25
.6911 - .7220	.5615	6	2 1/4	341623EL	342623EL	343523EL	9 1/2 - 18	508.40	460.60	444.55	436.90	428.70	422.25
.7221 - .7530	.6245	6	2 1/2	341624EL	342624EL	343524EL	9 17/32 - 18	529.35	481.45	465.50	457.75	449.55	443.10
.7531 - .7840	.6245	6	2 1/2	341625EL	342625EL	343525EL	9 17/32 - 18	603.30	557.70	542.45	535.15	527.45	521.20
.7841 - .8160	.6245	6	2 1/2	341626EL	342626EL	343526EL	9 17/32 - 18	624.95	579.40	564.15	556.85	549.05	542.90
.8161 - .8470	.6245	6	2 1/2	341627EL	342627EL	343527EL	9 17/32 - 18	630.75	585.20	569.95	562.70	554.80	548.65
.8471 - .8780	.7495	6	2 5/8	341628EL	342628EL	343528EL	10 1/2 - 18	634.65	589.15	573.90	566.60	558.80	552.65
.8781 - .9090	.7495	6	2 5/8	341629EL	342629EL	343529EL	10 1/2 - 18	659.35	613.80	598.50	591.20	583.45	577.35
.9091 - .9410	.7495	8	2 5/8	341630EL	342630EL	343530EL	10 1/2 - 18	670.70	625.10	609.85	602.55	594.80	588.60
.9411 - .9720	.7495	8	2 5/8	341631EL	342631EL	343531EL	10 1/2 - 18	674.35	628.85	613.60	606.30	598.40	592.25
.9721 - 1.0030	.8745	8	2 3/4	341632EL	342632EL	343532EL	10 17/32 - 18	693.70	648.15	633.00	625.70	617.80	611.65

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CARBIDE TIPPED VARIABLE LENGTH REAMERS

TYPE 3442EL - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - FOR NON-FERROUS

TYPE 3443EL - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - FOR CAST IRON

TYPE 3444EL - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - FOR STEEL

Same as types 3442, 3443, and 3444 on page 98 except with variable overall lengths.
When ordering, specify desired length within overall length range.
Eliminates need to special order reamers, saving time and money.
These reamers have a controlled shank.



For reamer tolerances and closer tolerance pricing, see page 60.

DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	NON-FERR. TYPE 3442EL EDP NO.	CAST IRON TYPE 3443EL EDP NO.	STEEL TYPE 3444EL EDP NO.	OVERALL LENGTH RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14
.2211 - .2530 *	.2193	4	1 1/2	344208FL	344308FL	344408FL	6 1/32 - 12	\$542.55	\$485.20	\$465.95	\$456.90	\$447.10	\$439.20
.2531 - .2840 *	.2505	4	1 1/2	344209FL	344309FL	344409FL	6 1/32 - 12	570.90	513.40	494.25	485.10	475.25	467.55
.2841 - .3150	.2792	4	1 1/2	344210FL	344310FL	344410FL	6 1/32 - 12	405.15	347.75	328.60	319.30	309.50	301.75
.3151 - .3470	.2792	4	1 1/2	344211FL	344311FL	344411FL	6 1/32 - 12	405.15	347.75	328.60	319.30	309.50	301.75
.3471 - .3780	.3105	4	1 3/4	344212FL	344312FL	344412FL	7 1/32 - 14	418.35	361.00	341.70	332.50	322.75	315.05
.3781 - .4090	.3105	4	1 3/4	344213FL	344313FL	344413FL	7 1/32 - 14	418.35	361.00	341.70	332.50	322.75	315.05
.4091 - .4410	.3730	6	1 3/4	344214FL	344314FL	344414FL	7 1/32 - 14	431.60	374.30	355.05	345.75	335.95	328.20
.4411 - .4720	.3730	6	1 3/4	344215FL	344315FL	344415FL	7 1/32 - 14	431.60	374.30	355.05	345.75	335.95	328.20
.4721 - .5030	.4355	6	2	344216FL	344316FL	344416FL	8 1/32 - 16	440.60	383.10	364.00	354.75	344.90	337.20
.5031 - .5340	.4355	6	2	344217FL	344317FL	344417FL	8 1/32 - 16	440.60	383.10	364.00	354.75	344.90	337.20
.5341 - .5660	.4355	6	2	344218FL	344318FL	344418FL	8 1/32 - 16	448.85	391.30	372.15	362.95	353.15	345.30
.5661 - .5970	.4355	6	2	344219FL	344319FL	344419FL	8 1/32 - 16	448.85	391.30	372.15	362.95	353.15	345.30
.5971 - .6280	.5615	6	2 1/4	344220FL	344320FL	344420FL	9 1/32 - 18	458.30	400.80	381.55	372.50	362.65	354.95
.6281 - .6590	.5615	6	2 1/4	344221FL	344321FL	344421FL	9 1/32 - 18	458.30	400.80	381.55	372.50	362.65	354.95
.6591 - .6910	.5615	6	2 1/4	344222FL	344322FL	344422FL	9 1/32 - 18	459.45	402.10	382.85	373.80	364.00	356.20
.6911 - .7220	.5615	6	2 1/4	344223FL	344323FL	344423FL	9 1/32 - 18	459.45	402.10	382.85	373.80	364.00	356.20
.7221 - .7530	.6245	6	2 1/2	344224FL	344324FL	344424FL	9 17/32 - 18	493.30	435.90	416.65	407.45	397.65	390.00
.7531 - .7840	.6245	6	2 1/2	344225FL	344325FL	344425FL	9 17/32 - 18	568.65	513.95	495.60	487.05	477.70	470.25
.7841 - .8160	.6245	6	2 1/2	344226FL	344326FL	344426FL	9 17/32 - 18	585.00	530.40	512.00	503.35	494.00	486.65
.8161 - .8470	.6245	6	2 1/2	344227FL	344327FL	344427FL	9 17/32 - 18	590.90	536.25	517.85	509.25	499.90	492.55
.8471 - .8780	.7495	6	2 5/8	344228FL	344328FL	344428FL	10 1/32 - 18	593.20	538.45	520.20	511.55	502.15	494.80
.8781 - .9090	.7495	6	2 5/8	344229FL	344329FL	344429FL	10 1/32 - 18	612.95	558.40	540.00	531.40	522.00	514.65
.9091 - .9410	.7495	8	2 5/8	344230FL	344330FL	344430FL	10 1/32 - 18	633.60	579.00	560.60	551.95	542.60	535.25
.9411 - .9720	.7495	8	2 5/8	344231FL	344331FL	344431FL	10 1/32 - 18	637.40	582.70	564.35	555.80	546.45	539.10
.9721 - 1.0030	.8745	8	2 3/4	344232FL	344332FL	344432FL	10 17/32 - 18	660.65	606.00	587.70	579.10	569.75	562.25

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CARBIDE TIPPED VARIABLE LENGTH COOLANT REAMERS

TYPE 3411EL - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - BLIND HOLES - FOR NON-FERROUS
TYPE 3413EL - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - BLIND HOLES - FOR CAST IRON
TYPE 3415EL - STRAIGHT SHANK - RIGHT SPIRAL FLUTE LONG CARBIDE - BLIND HOLES - FOR STEEL

Same as types 3411, 3413, and 3415 on page 113 except with variable overall lengths.
 When ordering, specify desired length within overall length range.
 Eliminates need to special order reamers, saving time and money. These reamers have a controlled shank and coolant through the end of the tool.



For reamer tolerances and closer tolerance pricing, see page 60.

DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	NON-FERR. TYPE 3411EL EDP NO.	CAST IRON TYPE 3413EL EDP NO.	STEEL TYPE 3415EL EDP NO.	OVERALL LENGTH RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14
.2211 - .2530 *	.2193	4	1 1/2	341108FL	341308FL	341508FL	6 1/32 - 12	\$680.50	\$623.10	\$604.00	\$594.80	\$584.85	\$577.25
.2531 - .2840 *	.2505	4	1 1/2	341109FL	341309FL	341509FL	6 1/32 - 12	713.55	656.10	636.80	627.75	617.80	610.15
.2841 - .3150	.2792	4	1 1/2	341110FL	341310FL	341510FL	6 1/32 - 12	527.60	470.10	451.00	441.80	431.85	424.25
.3151 - .3470	.2792	4	1 1/2	341111FL	341311FL	341511FL	6 1/32 - 12	527.60	470.10	451.00	441.80	431.85	424.25
.3471 - .3780	.3105	4	1 3/4	341112FL	341312FL	341512FL	7 1/32 - 14	538.10	480.60	461.30	452.25	442.50	434.70
.3781 - .4090	.3105	4	1 3/4	341113FL	341313FL	341513FL	7 1/32 - 14	538.10	480.60	461.30	452.25	442.50	434.70
.4091 - .4410	.3730	6	1 3/4	341114FL	341314FL	341514FL	7 1/32 - 14	540.25	482.90	463.65	454.55	444.65	436.90
.4411 - .4720	.3730	6	1 3/4	341115FL	341315FL	341515FL	7 1/32 - 14	540.25	482.90	463.65	454.55	444.65	436.90
.4721 - .5030	.4355	6	2	341116FL	341316FL	341516FL	8 1/32 - 16	587.75	530.40	511.05	501.90	492.10	484.45
.5031 - .5340	.4355	6	2	341117FL	341317FL	341517FL	8 1/32 - 16	587.75	530.40	511.05	501.90	492.10	484.45
.5341 - .5660	.4355	6	2	341118FL	341318FL	341518FL	8 1/32 - 16	591.90	534.35	515.25	506.10	496.25	488.50
.5661 - .5970	.4355	6	2	341119FL	341319FL	341519FL	8 1/32 - 16	591.90	534.35	515.25	506.10	496.25	488.50
.5971 - .6280	.5615	6	2 1/4	341120FL	341320FL	341520FL	9 1/32 - 18	603.60	546.15	526.90	517.75	507.95	500.15
.6281 - .6590	.5615	6	2 1/4	341121FL	341321FL	341521FL	9 1/32 - 18	603.60	546.15	526.90	517.75	507.95	500.15
.6591 - .6910	.5615	6	2 1/4	341122FL	341322FL	341522FL	9 1/32 - 18	610.15	552.70	533.55	524.45	514.45	506.80
.6911 - .7220	.5615	6	2 1/4	341123FL	341323FL	341523FL	9 1/32 - 18	610.15	552.70	533.55	524.45	514.45	506.80
.7221 - .7530	.6245	6	2 1/2	341124FL	341324FL	341524FL	9 17/32 - 18	635.20	577.80	558.55	549.50	539.55	531.95
.7531 - .7840	.6245	6	2 1/2	341125FL	341325FL	341525FL	9 17/32 - 18	641.25	586.60	568.35	559.60	550.20	542.90
.7841 - .8160	.6245	6	2 1/2	341126FL	341326FL	341526FL	9 17/32 - 18	662.25	607.55	589.35	580.55	571.20	563.90
.8161 - .8470	.6245	6	2 1/2	341127FL	341327FL	341527FL	9 17/32 - 18	668.25	613.60	595.25	586.55	577.15	569.90
.8471 - .8780	.7495	6	2 5/8	341128FL	341328FL	341528FL	10 1/32 - 18	670.40	615.75	597.50	588.75	579.30	572.05
.8781 - .9090	.7495	6	2 5/8	341129FL	341329FL	341529FL	10 1/32 - 18	694.35	639.65	621.50	612.65	603.30	596.05
.9091 - .9410	.7495	8	2 5/8	341130FL	341330FL	341530FL	10 1/32 - 18	715.60	660.95	642.65	633.90	624.55	617.20
.9411 - .9720	.7495	8	2 5/8	341131FL	341331FL	341531FL	10 1/32 - 18	719.35	664.70	646.45	637.65	628.30	621.00
.9721 - 1.0030	.8745	8	2 3/4	341132FL	341332FL	341532FL	10 17/32 - 18	747.70	693.05	674.75	666.00	656.65	649.40

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CARBIDE TIPPED VARIABLE LENGTH REAMERS

TYPE 3482EL - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - FOR NON-FERROUS

TYPE 3483EL - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - FOR CAST IRON

TYPE 3484EL - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - FOR STEEL

Same as types 3482, 3483, and 3484 on page 99 except with variable overall lengths.
When ordering, specify desired length within overall length range.
Eliminates need to special order reamers, saving time and money.
These reamers have a controlled shank.



For reamer tolerances and closer tolerance pricing, see page 60.

DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	NON-FERR. TYPE 3482EL EDP NO.	CAST IRON TYPE 3483EL EDP NO.	STEEL TYPE 3484EL EDP NO.	OVERALL LENGTH RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14
.2211 - .2530 *	.2193	4	1 1/2	348208FL	348308FL	348408FL	6 1/32 - 12	\$542.55	\$485.20	\$465.95	\$456.90	\$447.10	\$439.20
.2531 - .2840 *	.2505	4	1 1/2	348209FL	348309FL	348409FL	6 1/32 - 12	570.90	513.40	494.25	485.10	475.25	467.55
.2841 - .3150	.2792	4	1 1/2	348210FL	348310FL	348410FL	6 1/32 - 12	405.15	347.75	328.60	319.30	309.50	301.75
.3151 - .3470	.2792	4	1 1/2	348211FL	348311FL	348411FL	6 1/32 - 12	405.15	347.75	328.60	319.30	309.50	301.75
.3471 - .3780	.3105	4	1 3/4	348212FL	348312FL	348412FL	7 1/32 - 14	418.35	361.00	341.70	332.50	322.75	315.05
.3781 - .4090	.3105	4	1 3/4	348213FL	348313FL	348413FL	7 1/32 - 14	418.35	361.00	341.70	332.50	322.75	315.05
.4091 - .4410	.3730	6	1 3/4	348214FL	348314FL	348414FL	7 1/32 - 14	431.60	374.30	355.05	345.75	335.95	328.20
.4411 - .4720	.3730	6	1 3/4	348215FL	348315FL	348415FL	7 1/32 - 14	431.60	374.30	355.05	345.75	335.95	328.20
.4721 - .5030	.4355	6	2	348216FL	348316FL	348416FL	8 1/32 - 16	440.60	383.10	364.00	354.75	344.90	337.20
.5031 - .5340	.4355	6	2	348217FL	348317FL	348417FL	8 1/32 - 16	440.60	383.10	364.00	354.75	344.90	337.20
.5341 - .5660	.4355	6	2	348218FL	348318FL	348418FL	8 1/32 - 16	448.85	391.30	372.15	362.95	353.15	345.30
.5661 - .5970	.4355	6	2	348219FL	348319FL	348419FL	8 1/32 - 16	448.85	391.30	372.15	362.95	353.15	345.30
.5971 - .6280	.5615	6	2 1/4	348220FL	348320FL	348420FL	9 1/32 - 18	458.30	400.80	381.55	372.50	362.65	354.95
.6281 - .6590	.5615	6	2 1/4	348221FL	348321FL	348421FL	9 1/32 - 18	458.30	400.80	381.55	372.50	362.65	354.95
.6591 - .6910	.5615	6	2 1/4	348222FL	348322FL	348422FL	9 1/32 - 18	459.45	402.10	382.85	373.80	364.00	356.20
.6911 - .7220	.5615	6	2 1/4	348223FL	348323FL	348423FL	9 1/32 - 18	459.45	402.10	382.85	373.80	364.00	356.20
.7221 - .7530	.6245	6	2 1/2	348224FL	348324FL	348424FL	9 17/32 - 18	493.30	435.90	416.65	407.45	397.65	390.00
.7531 - .7840	.6245	6	2 1/2	348225FL	348325FL	348425FL	9 17/32 - 18	568.65	513.95	495.60	487.05	477.70	470.25
.7841 - .8160	.6245	6	2 1/2	348226FL	348326FL	348426FL	9 17/32 - 18	585.00	530.40	512.00	503.35	494.00	486.65
.8161 - .8470	.6245	6	2 1/2	348227FL	348327FL	348427FL	9 17/32 - 18	590.90	536.25	517.85	509.25	499.90	492.55
.8471 - .8780	.7495	6	2 5/8	348228FL	348328FL	348428FL	10 1/32 - 18	593.20	538.45	520.20	511.55	502.15	494.80
.8781 - .9090	.7495	6	2 5/8	348229FL	348329FL	348429FL	10 1/32 - 18	612.95	558.40	540.00	531.40	522.00	514.65
.9091 - .9410	.7495	8	2 5/8	348230FL	348330FL	348430FL	10 1/32 - 18	633.60	579.00	560.60	551.95	542.60	535.25
.9411 - .9720	.7495	8	2 5/8	348231FL	348331FL	348431FL	10 1/32 - 18	637.40	582.70	564.35	555.80	546.45	539.10
.9721 - 1.0030	.8745	8	2 3/4	348232FL	348332FL	348432FL	10 17/32 - 18	660.65	606.00	587.70	579.10	569.75	562.25

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CARBIDE TIPPED VARIABLE LENGTH COOLANT REAMERS

TYPE 3427EL - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - THROUGH HOLES - FOR NON-FERROUS

TYPE 3428EL - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - THROUGH HOLES - FOR CAST IRON

TYPE 3429EL - STRAIGHT SHANK - LEFT SPIRAL FLUTE LONG CARBIDE - THROUGH HOLES - FOR STEEL

Same as types 3427, 3428, and 3429 on page 114 except with variable overall lengths.
When ordering, specify desired length within overall length range.
Eliminates need to special order reamers, saving time and money.
These reamers have a controlled shank and coolant through the flutes.



For reamer tolerances and closer tolerance pricing, see page 60.

DECIMAL SIZE RANGE	SHANK DIAMETER	NO. OF FLUTES	FLUTE LENGTH	NON-FERR. TYPE 3427EL EDP NO.	CAST IRON TYPE 3428EL EDP NO.	STEEL TYPE 3429EL EDP NO.	OVERALL LENGTH RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
								1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14
.2211 - .2530 *	.2193	4	1 1/2	342708FL	342808FL	342908FL	6 1/32 - 12	\$680.50	\$623.10	\$604.00	\$594.80	\$584.85	\$577.25
.2531 - .2840 *	.2505	4	1 1/2	342709FL	342809FL	342909FL	6 1/32 - 12	713.55	656.10	636.80	627.75	617.80	610.15
.2841 - .3150	.2792	4	1 1/2	342710FL	342810FL	342910FL	6 1/32 - 12	527.60	470.10	451.00	441.80	431.85	424.25
.3151 - .3470	.2792	4	1 1/2	342711FL	342811FL	342911FL	6 1/32 - 12	527.60	470.10	451.00	441.80	431.85	424.25
.3471 - .3780	.3105	4	1 3/4	342712FL	342812FL	342912FL	7 1/32 - 14	538.10	480.60	461.30	452.25	442.50	434.70
.3781 - .4090	.3105	4	1 3/4	342713FL	342813FL	342913FL	7 1/32 - 14	538.10	480.60	461.30	452.25	442.50	434.70
.4091 - .4410	.3730	6	1 3/4	342714FL	342814FL	342914FL	7 1/32 - 14	540.25	482.90	463.65	454.55	444.65	436.90
.4411 - .4720	.3730	6	1 3/4	342715FL	342815FL	342915FL	7 1/32 - 14	540.25	482.90	463.65	454.55	444.65	436.90
.4721 - .5030	.4355	6	2	342716FL	342816FL	342916FL	8 1/32 - 16	587.75	530.40	511.05	501.90	492.10	484.45
.5031 - .5340	.4355	6	2	342717FL	342817FL	342917FL	8 1/32 - 16	587.75	530.40	511.05	501.90	492.10	484.45
.5341 - .5660	.4355	6	2	342718FL	342818FL	342918FL	8 1/32 - 16	591.90	534.35	515.25	506.10	496.25	488.50
.5661 - .5970	.4355	6	2	342719FL	342819FL	342919FL	8 1/32 - 16	591.90	534.35	515.25	506.10	496.25	488.50
.5971 - .6280	.5615	6	2 1/4	342720FL	342820FL	342920FL	9 1/32 - 18	603.60	546.15	526.90	517.75	507.95	500.15
.6281 - .6590	.5615	6	2 1/4	342721FL	342821FL	342921FL	9 1/32 - 18	603.60	546.15	526.90	517.75	507.95	500.15
.6591 - .6910	.5615	6	2 1/4	342722FL	342822FL	342922FL	9 1/32 - 18	610.15	552.70	533.55	524.45	514.45	506.80
.6911 - .7220	.5615	6	2 1/4	342723FL	342823FL	342923FL	9 1/32 - 18	610.15	552.70	533.55	524.45	514.45	506.80
.7221 - .7530	.6245	6	2 1/2	342724FL	342824FL	342924FL	9 17/32 - 18	635.20	577.80	558.55	549.50	539.55	531.95
.7531 - .7840	.6245	6	2 1/2	342725FL	342825FL	342925FL	9 17/32 - 18	670.70	615.95	597.80	589.00	579.55	572.25
.7841 - .8160	.6245	6	2 1/2	342726FL	342826FL	342926FL	9 17/32 - 18	693.20	638.55	620.25	611.50	602.15	594.90
.8161 - .8470	.6245	6	2 1/2	342727FL	342827FL	342927FL	9 17/32 - 18	699.10	644.45	626.15	617.40	608.05	600.80
.8471 - .8780	.7495	6	2 5/8	342728FL	342828FL	342928FL	10 1/32 - 18	701.20	646.55	628.30	619.55	610.15	602.85
.8781 - .9090	.7495	6	2 5/8	342729FL	342829FL	342929FL	10 1/32 - 18	727.20	672.55	654.20	645.45	636.10	628.85
.9091 - .9410	.7495	8	2 5/8	342730FL	342830FL	342930FL	10 1/32 - 18	748.50	693.75	675.60	666.80	657.45	650.15
.9411 - .9720	.7495	8	2 5/8	342731FL	342831FL	342931FL	10 1/32 - 18	752.15	697.50	679.20	670.45	661.10	653.80
.9721 - 1.0030	.8745	8	2 3/4	342732FL	342832FL	342932FL	10 17/32 - 18	782.30	727.65	709.40	700.60	691.25	683.95

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FEEDS & SPEEDS CHARTS FOR DRILLS - CARBIDE TIPPED

Feeds & speeds are a starting recommendation only. Factors such as machine, fixture and tooling rigidity, horsepower available, coolant application and others will affect the performance significantly. Please read machine operators instructions and use all safety shields and glasses before performing these operations.



$$\text{IPM} = \text{RPM} \times \text{IPR}$$

$$\text{RPM} = \text{SFPM} \times 3.82 / \text{Drill Diameter}$$

CLASSIFICATION	MATERIAL	BRINELL	SPEED IN SFPM	FEED RATE (INCHES PER REVOLUTION)					HOLE DIAMETER IN INCHES			
			GENERAL PURPOSE (G.P.)	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2
NON-FERROUS (SOFT)	ALUMINUM ALLOY - CAST WROUGHT	30 - 150*	250-350	.003	.005	.007	.008	.010	.011	.014	.017	.019
	MAGNESIUM ALLOY	50 - 90*	300-400	.003	.005	.006	.007	.008	.009	.013	.015	.016
	LEAD ALLOY	10 - 20*	350-450	.003	.005	.006	.007	.008	.009	.013	.015	.017
	NON-METAL AND PLASTIC	-	175-450	.002	.004	.005	.005	.006	.008	.009	.010	.012
	ZINC ALLOY - DIE CAST	80 - 100	300-400	.003	.005	.007	.009	.011	.012	.014	.016	.018
NON-FERROUS (HARD)	ALUMINUM BRONZE	40 - 175	125-190	.002	.005	.007	.008	.009	.010	.012	.014	.016
	BRASS ALLOY - LEADED AND FREE CUTTING	10 - 100Rb	225-400	.003	.005	.007	.008	.009	.010	.012	.014	.016
	NICKEL SILVER	10 - 100Rb	125-190	.002	.005	.007	.008	.009	.010	.012	.014	.016
	COPPER ALLOY - TOUGH	40 - 200*	125-190	.002	.005	.007	.008	.009	.010	.012	.014	.016
	DUCTILE CAST IRON - AUSTENITIC	120 - 275	-	-	-	-	-	-	-	-	-	-
CAST IRON	DUCTILE CAST IRON - FERRITIC	140 - 270	150-225	.002	.004	.006	.008	.010	.012	.014	.016	.018
	DUCTILE CAST IRON - MARTENSITIC	270 - 400	-	-	-	-	-	-	-	-	-	-
	GRAY - PEARLITIC	220 - 320	130-225	.002	.004	.006	.007	.009	.010	.013	.016	.018
	GRAY - FERRITIC	120 - 220	125-190	.002	.005	.008	.009	.010	.011	.012	.014	.016
	MALLEABLE CAST IRON - MARTENSITIC	200 - 320	100-150	.002	.004	.006	.007	.008	.010	.012	.014	.016
LOW CARBON STEELS	LOW AND MEDIUM CARBON STEEL - FREE MACHINING	100 - 250	125-175	.003	.004	.008	.010	.012	.014	.017	.018	.019
	LOW AND MEDIUM CARBON STEEL - WROUGHT	100 - 375	-	-	-	-	-	-	-	-	-	-
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACHINING	100 - 275	-	-	-	-	-	-	-	-	-	-
	LOW AND MEDIUM CARBON ALLOY STEEL	85 - 375	-	-	-	-	-	-	-	-	-	-
	STAINLESS STEEL - 400 SERIES	135 - 325	-	-	-	-	-	-	-	-	-	-
	STAINLESS STEEL - 400 SERIES FREE MACHINING	135 - 275	100-150	.002	.004	.005	.006	.007	.008	.010	.012	.014
HIGH STRENGTH STEELS	HIGH STRENGTH STEEL - WROUGHT & TOOL STEEL	175 - 400	-	-	-	-	-	-	-	-	-	-
HIGH TEMP. ALLOYS	HIGH TEMP ALLOYS NICKEL & IRON BASE ALLOY	140 - 300	-	-	-	-	-	-	-	-	-	-
	STAINLESS STEEL - 300 SERIES	135 - 375	-	-	-	-	-	-	-	-	-	-
	STAINLESS STEEL - PH SERIES	150 - 440	-	-	-	-	-	-	-	-	-	-
	TITANIUM ALLOY	110 - 380	-	-	-	-	-	-	-	-	-	-

CLASSIFICATION	MATERIAL	BRINELL	SPEED IN SFPM	FEED RATE (INCHES PER REVOLUTION)					HOLE DIAMETER IN INCHES			
			COOLANT FED (C.F.)	1/8	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2
NON-FERROUS (SOFT)	ALUMINUM ALLOY - CAST WROUGHT	30 - 150*	375-550	-	.004	.005	.006	.006	.007	.009	-	-
	MAGNESIUM ALLOY	50 - 90*	450-550	-	.005	.006	.007	.008	.009	.013	-	-
	LEAD ALLOY	10 - 20*	400-500	-	.004	.006	.007	.008	.009	.013	-	-
	NON-METAL AND PLASTIC	-	-	-	-	-	-	-	-	-	-	-
	ZINC ALLOY - DIE CAST	80 - 100	400-500	-	.004	.005	.006	.008	.009	.010	-	-
NON-FERROUS (HARD)	ALUMINUM BRONZE	40 - 175	200-300	-	.004	.005	.006	.007	.008	.010	-	-
	BRASS ALLOY - LEADED AND FREE CUTTING	10 - 100Rb	300-450	-	.004	.005	.006	.007	.008	.010	-	-
	NICKEL SILVER	10 - 100Rb	225-300	-	.004	.005	.006	.007	.008	.010	-	-
	COPPER ALLOY - TOUGH	40 - 200*	225-300	-	.004	.005	.006	.007	.008	.010	-	-
	DUCTILE CAST IRON - AUSTENITIC	120 - 275	-	-	-	-	-	-	-	-	-	-
CAST IRON	DUCTILE CAST IRON - FERRITIC	140 - 270	200-250	-	.004	.005	.006	.007	.008	.010	-	-
	DUCTILE CAST IRON - MARTENSITIC	270 - 400	200-250	-	.004	.005	.006	.007	.008	.010	-	-
	GRAY - PEARLITIC	220 - 320	225-325	-	.004	.006	.008	.010	.012	.015	-	-
	GRAY - FERRITIC	120 - 220	200-250	-	.004	.006	.008	.008	.008	.010	-	-
	MALLEABLE CAST IRON - MARTENSITIC	200 - 320	200-250	-	.004	.005	.006	.007	.008	.010	-	-
LOW CARBON STEELS	LOW AND MEDIUM CARBON STEEL - FREE MACHINING	100 - 250	150-250	-	.005	.006	.008	.009	.010	.012	-	-
	LOW AND MEDIUM CARBON STEEL - WROUGHT	100 - 375	-	-	-	-	-	-	-	-	-	-
MEDIUM STRENGTH STEELS	LOW AND MEDIUM CARBON ALLOY STEEL - FREE MACHINING	100 - 275	100-220	-	.005	.006	.007	.008	.010	.012	-	-
	LOW AND MEDIUM CARBON ALLOY STEEL	85 - 375	100-150	-	.005	.006	.007	.008	.010	.012	-	-
	STAINLESS STEEL - 400 SERIES	135 - 325	110-150	-	.004	.005	.006	.007	.008	.010	-	-
	STAINLESS STEEL - 400 SERIES FREE MACHINING	135 - 275	125-190	-	.004	.005	.006	.007	.007	.008	-	-
HIGH STRENGTH STEELS	HIGH STRENGTH STEEL - WROUGHT & TOOL STEEL	175 - 400	100-150	-	.0015	.002	.003	.004	.005	.006	-	-
HIGH TEMP. ALLOYS	HIGH TEMP ALLOYS NICKEL & IRON BASE ALLOY	140 - 300	-	-	-	-	-	-	-	-	-	-
	STAINLESS STEEL - 300 SERIES	135 - 375	-	-	-	-	-	-	-	-	-	-
	STAINLESS STEEL - PH SERIES	150 - 440	-	-	-	-	-	-	-	-	-	-
	TITANIUM ALLOY	110 - 380	-	-	-	-	-	-	-	-	-	-

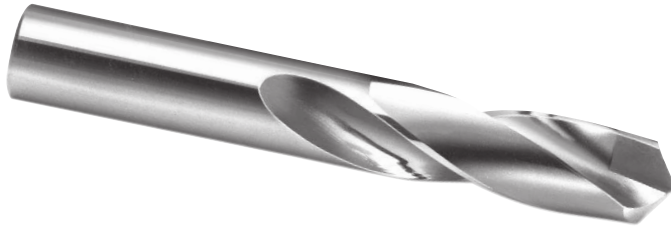
CARBIDE TIPPED STUB LENGTH TWIST DRILLS

METRIC

DISCONTINUED - WHILE SUPPLIES LAST

**TYPE 3640 - STUB LENGTH - 118° POINT
TYPE 3641 - STUB LENGTH - 135° SPLIT POINT**

Detailed description and fractional sizes on page 134.



While Supplies Last.

TOOL DIAMETER		FLUTE LENGTH		OVERALL LENGTH		118° POINT		135° POINT	
mm	INCH	mm	INCH	mm	INCH	TYPE 3640 EDP NO.	PRICE EACH	TYPE 3641 EDP NO.	PRICE EACH
3.0	.1181	22	7/8	48	1 7/8	3640030	\$33.85	3641030	\$37.30
3.1	.1220	22	7/8	48	1 7/8	3640031	33.85	3641031	37.30
3.2	.1260	24	15/16	49	1 15/16	3640032	33.85	3641032	37.30
3.3	.1299	24	15/16	49	1 15/16	3640033	33.85	3641033	37.30
3.4	.1339	24	15/16	49	1 15/16	3640034	33.85	3641034	37.30
3.5	.1378	24	15/16	49	1 15/16	3640035	29.00	3641035	33.20
3.6	.1417	25	1	52	2 1/16	3640036	33.85	3641036	37.30
3.7	.1457	25	1	52	2 1/16	3640037	33.85	3641037	37.30
3.8	.1496	25	1	52	2 1/16	3640038	33.85	3641038	37.30
3.9	.1535	25	1	52	2 1/16	3640039	33.85	3641039	37.30
4.0	.1575	27	1 1/16	54	2 1/8	3640040	29.00	3641040	33.25
4.1	.1614	27	1 1/16	54	2 1/8	3640041	40.40	3641041	44.45
4.2	.1654	27	1 1/16	54	2 1/8	3640042	40.40	3641042	44.45
4.3	.1693	27	1 1/16	54	2 1/8	3640043	40.40	3641043	44.45
4.4	.1732	29	1 1/8	56	2 3/16	3640044	40.40	3641044	44.45
4.5	.1772	29	1 1/8	56	2 3/16	3640045	34.50	3641045	39.65
4.6	.1811	29	1 1/8	56	2 3/16	3640046	40.40	3641046	44.45
4.7	.1850	29	1 1/8	56	2 3/16	364213	42.65	364313	47.40
4.8	.1890	30	1 3/16	57	2 1/4	364212	42.40	364312	47.05
4.9	.1929	30	1 3/16	57	2 1/4	3640049	40.40	3641049	44.45
5.0	.1969	30	1 3/16	57	2 1/4	3640050	34.50	3641050	39.65
5.1	.2008	30	1 3/16	57	2 1/4	3640051	40.40	3641051	44.45
5.2	.2047	32	1 1/4	60	2 3/8	3640052	40.40	3641052	44.45
5.3	.2087	32	1 1/4	60	2 3/8	3640053	40.40	3641053	44.45
5.4	.2126	32	1 1/4	60	2 3/8	3640054	40.40	3641054	44.45
5.5	.2165	32	1 1/4	60	2 3/8	3640055	34.50	3641055	39.65
5.6	.2205	33	1 5/16	62	2 7/16	3640056	40.40	3641056	44.45
5.7	.2244	33	1 5/16	62	2 7/16	3640057	40.40	3641057	44.45
5.8	.2283	33	1 5/16	62	2 7/16	3640058	40.40	3641058	44.45
5.9	.2323	33	1 5/16	62	2 7/16	3640059	40.40	3641059	44.45
6.0	.2363	35	1 3/8	64	2 1/2	3640060	32.25	3641060	36.95
6.1	.2402	35	1 3/8	64	2 1/2	3640061	41.65	3641061	46.20
6.2	.2441	35	1 3/8	64	2 1/2	3640062	41.65	3641062	46.20
6.3	.2480	35	1 3/8	64	2 1/2	3640063	41.65	3641063	46.20
6.4	.2520	37	1 7/16	67	2 5/8	3640064	41.65	3641064	46.20
6.5	.2559	37	1 7/16	67	2 5/8	3640065	35.80	3641065	41.00
6.6	.2598	37	1 7/16	67	2 5/8	3640066	41.65	3641066	46.20
6.7	.2638	37	1 7/16	67	2 5/8	3640067	41.65	3641067	46.20
6.8	.2677	38	1 1/2	68	2 11/16	3640068	41.65	3641068	46.20
6.9	.2717	38	1 1/2	68	2 11/16	3640069	41.65	3641069	46.20
7.0	.2756	38	1 1/2	68	2 11/16	3640070	35.80	3641070	41.00
7.1	.2795	38	1 1/2	68	2 11/16	3640071	41.65	3641071	46.20
7.2	.2835	40	1 9/16	70	2 3/4	3640072	47.90	3641072	52.85
7.3	.2874	40	1 9/16	70	2 3/4	3640073	47.90	3641073	52.85
7.4	.2913	40	1 9/16	70	2 3/4	3640074	47.90	3641074	52.85
7.5	.2953	40	1 9/16	70	2 3/4	3640075	41.10	3641075	46.85
7.6	.2992	41	1 5/8	71	2 13/16	3640076	47.90	3641076	52.85
7.7	.3031	41	1 5/8	71	2 13/16	3640077	47.90	3641077	52.85
7.8	.3071	41	1 5/8	71	2 13/16	3640078	47.90	3641078	52.85
7.9	.3110	41	1 5/8	71	2 13/16	3640079	47.90	3641079	52.85
8.0	.3150	43	1 1/16	75	2 15/16	3640080	41.10	3641080	46.85

While Supplies Last.

For drill tolerances, see page 150.

TOOL DIAMETER		FLUTE LENGTH		OVERALL LENGTH		118° POINT		135° POINT	
mm	INCH	mm	INCH	mm	INCH	TYPE 3640 EDP NO.	PRICE EACH	TYPE 3641 EDP NO.	PRICE EACH
8.1	.3189	43	1 11/16	75	2 15/16	3640081	\$51.50	3641081	\$56.45
8.2	.3228	43	1 11/16	75	2 15/16	3640082	51.50	3641082	56.45
8.3	.3268	43	1 11/16	75	2 15/16	3640083	51.50	3641083	56.45
8.4	.3307	43	1 11/16	76	3	3640084	51.50	3641084	56.45
8.5	.3346	43	1 11/16	76	3	3640085	44.20	3641085	49.90
8.6	.3386	43	1 11/16	76	3	3640086	51.50	3641086	56.45
8.7	.3425	43	1 11/16	76	3	3640087	52.35	3641087	57.70
8.8	.3465	44	1 3/4	78	3 1/16	3640088	52.35	3641088	57.70
8.9	.3504	44	1 3/4	78	3 1/16	3640089	52.35	3641089	57.70
9.0	.3543	44	1 3/4	78	3 1/16	3640090	44.95	3641090	51.50
9.1	.3583	44	1 3/4	78	3 1/16	3640091	52.35	3641091	57.70
9.2	.3622	46	1 13/16	79	3 1/8	3640092	52.35	3641092	57.70
9.3	.3661	46	1 13/16	79	3 1/8	3640093	52.35	3641093	57.70
9.4	.3701	46	1 13/16	79	3 1/8	3640094	52.35	3641094	57.70
9.5	.3740	46	1 13/16	79	3 1/8	3640095	44.95	3641095	51.50
9.6	.3780	48	1 7/8	83	3 1/4	3640096	58.20	3641096	64.25
9.7	.3819	48	1 7/8	83	3 1/4	3640097	58.20	3641097	64.25
9.8	.3858	48	1 7/8	83	3 1/4	3640098	58.20	3641098	64.25
9.9	.3898	48	1 7/8	83	3 1/4	3640099	58.20	3641099	64.25
10.0	.3937	49	1 15/16	84	3 9/16	3640100	50.00	3641100	57.20
10.5	.4134	51	2	86	3 3/8	3640105	55.85	3641105	62.25
11.0	.4331	52	2 1/16	87	3 7/16	3640110	55.85	3641110	62.25
11.5	.4528	54	2 1/8	90	3 1/2	3640115	78.60	3641115	87.10
12.0	.4724	56	2 3/16	94	3 11/16	3640120	75.20	3641120	83.40
12.5	.4921	57	2 1/4	95	3 3/4	3640125	75.20	3641125	83.40
13.0	.5118	60	2 3/8	98	3 7/8	3640130	92.90	3641130	100.90
13.5	.5315	60	2 3/8	98	3 7/8	3640135	91.15	3641135	100.90
14.0	.5512	64	2 1/2	102	4	3640140	91.15	3641140	100.90
14.5	.5709	67	2 5/8	105	4 1/8	3640145	128.35	3641145	141.45
15.0	.5906	67	2 5/8	105	4 1/8	3640150	128.35	3641150	141.45
15.5	.6102	70	2 3/4	108	4 1/4	3640155	144.75	3641155	159.60
16.0	.6299	73	2 7/8	114	4 1/2	3640160	163.15	3641160	179.85
16.5	.6496	73	2 7/8	114	4 1/2	3640165	163.15	3641165	179.85
17.0	.6693	73	2 7/8	117	4 5/8	3640170	163.15	3641170	179.85
17.5	.6890	76	3	121	4 3/4	3640175	179.95	3641175	198.25
18.0	.7087	76	3	121	4 3/4	3640180	179.95	3641180	198.25
18.5	.7283	79	3 1/8	127	5	3640185	196.55	3641185	216.65
19.0	.7480	79	3 1/8	127	5	3640190	196.55	3641190	216.65
19.5	.7677	83	3 1/4	130	5 1/8	3640195	217.40	3641195	239.65
20.0	.7874	86	3 3/8	133	5 1/4	3640200	243.10	3641200	267.70
20.5	.8071	86	3 3/8	133	5 1/4	3640205	243.10	3641205	267.70
21.0	.8268	89	3 1/2	137	5 3/8	3640210	266.85	3641210	293.90
21.5	.8465	89	3 1/2	140	5 1/2	3640215	266.85	3641215	293.90
22.0	.8661	89	3 1/2	140	5 1/2	3640220	266.85	3641220	293.90
22.5	.8858	92	3 5/8	143	5 3/8	3640225	274.60	3641225	302.50
23.0	.9055	92	3 5/8	143	5 3/8	3640230	274.60	3641230	302.50
23.5	.9252	95	3 3/4	146	5 3/4	3640235	281.40	3641235	309.90
24.0	.9449	98	3 7/8	149	5 7/8	3640240	286.60	3641240	315.90
24.5	.9646	98	3 7/8	149	5 7/8	3640245	286.60	3641245	315.90
25.0	.9843	102	4	152	6	3640250	302.75	3641250	333.25

CARBIDE TIPPED TAPER SHANK TWIST DRILLS



TYPE 3660 - TAPER SHANK - 118° POINT
TYPE 3661 - TAPER SHANK - 135° SPLIT POINT

Carbide tip brazed to hardened tool steel bodies. Smooth flutes for effective chip flow. Precision ground to ensure concentricity of tip & body. For drilling cast iron, non-ferrous metals and non-metals. (Not usually recommended for drilling steel.)

DISCONTINUED - WHILE SUPPLIES LAST

For drill tolerances, see page 150.

TOOL DIAMETER		MORSE TAPER	LENGTH		118° POINT		135° POINT	
DECIMAL	FRACTIONAL		FLUTE	OVER-ALL	TYPE 3660 EDP NO.	PRICE EACH	TYPE 3661 EDP NO.	PRICE EACH
.2500	¼	1	2 7/8	6 1/8	366016	\$69.90	366116	\$79.20
.2656	17/64	1	3	6 ¼	366017	N/A	366117	N/A
.2812	9/32	1	3	6 ¼	366018	N/A	366118	N/A
.2969	19/64	1	3 1/8	6 3/8	366019	N/A	366119	N/A
.3125	5/16	1	3 1/8	6 3/8	366020	71.50	366120	81.00
.3281	21/64	1	3 ¼	6 ½	366021	90.95	366121	102.80
.3438	11/32	1	3 ¼	6 ½	366022	90.95	366122	102.80
.3594	23/64	1	3 ½	6 ¾	366023	90.95	366123	102.80
.3750	3/8	1	3 ½	6 ¾	366024	90.95	366124	102.80
.3906	25/64	1	3 5/8	7	366025	105.25	366125	119.30
.4062	13/32	1	3 5/8	7	366026	105.25	366126	119.30
.4219	27/64	1	3 7/8	7 ¼	366027	105.25	366127	119.30
.4375	7/16	1	3 7/8	7 ¼	366028	92.05	366128	104.40
.4531	29/64	1	4 1/8	7 ½	366029	111.90	366129	126.85
.4688	15/32	1	4 1/8	7 ½	366030	111.90	366130	126.85
.4844	31/64	2	4 3/8	8 ¼	366031	111.90	366131	126.85
.5000	½	2	4 3/8	8 ¼	366032	88.05	366132	117.25
.5156	33/64	2	4 5/8	8 ½	366033	113.65	366133	136.40
.5312	17/32	2	4 5/8	8 ½	366034	92.90	366134	120.60
.5469	35/64	2	4 7/8	8 ¾	366035	115.35	366135	138.35
.5625	9/16	2	4 7/8	8 ¾	366036	93.65	366136	122.30
.5781	37/64	2	4 7/8	8 ¾	366037	120.60	366137	144.90
.5938	19/32	2	4 7/8	8 ¾	366038	103.30	366138	135.30
.6094	39/64	2	4 7/8	8 ¾	366039	139.80	366139	167.85
.6250	5/8	2	4 7/8	8 ¾	366040	113.80	366140	148.20
.6406	41/64	2	5 1/8	9	366041	142.05	366141	170.45
.6562	21/32	2	5 1/8	9	366042	110.95	366142	150.70
.6719	43/64	2	5 3/8	9 ¼	366043	143.70	366143	172.60
.6875	11/16	2	5 3/8	9 ¼	366044	114.50	366144	152.45
.7031	45/64	2	5 5/8	9 ½	366045	147.65	366145	177.15
.7188	23/32	2	5 5/8	9 ½	366046	127.25	366146	169.95
.7344	47/64	2	5 7/8	9 ¾	366047	150.60	366147	180.75
.7500	¾	2	5 7/8	9 ¾	366048	130.30	366148	164.40
.7656	49/64	2	6	9 7/8	366049	160.20	366149	192.35
.7812	25/32	2	6	9 7/8	366050	155.15	366150	192.30
.7969	51/64	3	6 1/8	10 ¾	366051	161.85	366151	194.20
.8125	13/16	3	6 1/8	10 ¾	366052	156.85	366152	194.30

TOOL DIAMETER		MORSE TAPER	LENGTH		118° POINT		135° POINT	
DECIMAL	FRACTIONAL		FLUTE	OVER-ALL	TYPE 3660 EDP NO.	PRICE EACH	TYPE 3661 EDP NO.	PRICE EACH
.8281	53/64	3	6 1/8	10 ¾	366053	\$175.55	366153	\$210.75
.8438	27/32	3	6 1/8	10 ¾	366054	160.10	366154	194.30
.8594	55/64	3	6 1/8	10 ¾	366055	N/A	366155	N/A
.8750	7/8	3	6 1/8	10 ¾	366056	170.25	366156	205.30
.8906	57/64	3	6 1/8	10 ¾	366057	183.35	366157	219.85
.9062	29/32	3	6 1/8	10 ¾	366058	184.65	366158	213.95
.9219	59/64	3	6 1/8	10 ¾	366059	186.75	366159	223.85
.9375	15/16	3	6 1/8	10 ¾	366060	187.30	366160	207.05
.9531	61/64	3	6 3/8	11	366061	N/A	366161	N/A
.9688	31/32	3	6 3/8	11	366062	195.45	366162	226.45
.9844	63/64	3	6 3/8	11	366063	204.55	366163	245.45
1.0000	1	3	6 3/8	11	366064	184.40	366164	222.75
1.0156	1 1/64	3	6 ½	11 1/8	366065	N/A	366165	N/A
1.0312	1 1/32	3	6 ½	11 1/8	366066	248.65	366166	282.00
1.0469	1 3/64	3	6 5/8	11 ¼	366067	N/A	366167	N/A
1.0625	1 1/16	3	6 5/8	11 ¼	366068	238.90	366168	302.75
1.0781	1 5/64	4	6 7/8	12 ½	366069	N/A	366169	N/A
1.0938	1 3/32	4	6 7/8	12 ½	366070	N/A	366170	N/A
1.1094	1 7/64	4	7 1/8	12 ¾	366071	N/A	366171	N/A
1.1250	1 1/8	4	7 1/8	12 ¾	366072	264.50	366172	335.75
1.1406	1 9/64	4	7 ¼	12 7/8	366073	N/A	366173	N/A
1.1562	1 5/32	4	7 ¼	12 7/8	366074	N/A	366174	N/A
1.1719	1 11/64	4	7 3/8	13	366075	N/A	366175	N/A
1.1875	1 3/16	4	7 3/8	13	366076	303.05	366176	384.20
1.2031	1 13/64	4	7 ½	13 1/8	366077	N/A	366177	N/A
1.2188	1 7/32	4	7 ½	13 1/8	366078	N/A	366178	N/A
1.2344	1 15/64	4	7 ½	13 ½	366079	N/A	366179	N/A
1.2500	1 ¼	4	7 7/8	13 ½	366080	324.30	366180	411.60
1.2812	1 9/32	4	8 ½	14 1/8	366082	N/A	366182	N/A
1.3125	1 5/16	4	8 5/8	14 ¼	366084	458.80	366184	519.60
1.3438	1 11/32	4	8 ¾	14 3/8	366086	N/A	366186	N/A
1.3750	1 3/8	4	8 7/8	14 ½	366088	514.15	366188	582.45
1.4062	1 13/32	4	9	14 5/8	366090	N/A	366190	N/A
1.4375	1 7/16	4	9 1/8	14 ¾	366092	N/A	366192	N/A
1.4688	1 15/32	4	9 ¼	14 7/8	366094	N/A	366194	N/A
1.5000	1 ½	4	9 3/8	15	366096	564.00	366196	639.15
-	-	-	-	-	-	-	-	-

TYPE 3668 - SMALLER TAPER SIZE - 118° POINT

Same as Type 3660, except reduced to the next smaller Morse taper number.

DISCONTINUED - WHILE SUPPLIES LAST

While Supplies Last.

TOOL DIAMETER		MORSE TAPER	LENGTH		TYPE 3668 EDP NO.	PRICE EACH
DECIMAL	FRACTIONAL		FLUTE	OVERALL		
.4844	31/64	1	4 3/8	7 3/4	366831	\$128.00
.5000	½	1	4 3/8	7 ¾	366832	100.55
.5156	33/64	1	4 5/8	8	366833	124.00
.5312	17/32	1	4 5/8	8	366834	106.25
.5469	35/64	1	4 7/8	8 ¼	366835	125.75
.5625	9/16	1	4 7/8	8 ¼	366836	107.00
.7969	51/64	2	6 1/8	10	366851	176.55
.8125	13/16	2	6 1/8	10	366852	149.75
.8281	53/64	2	6 1/8	10	366853	176.55

For drill tolerances, see page 150.

While Supplies Last.

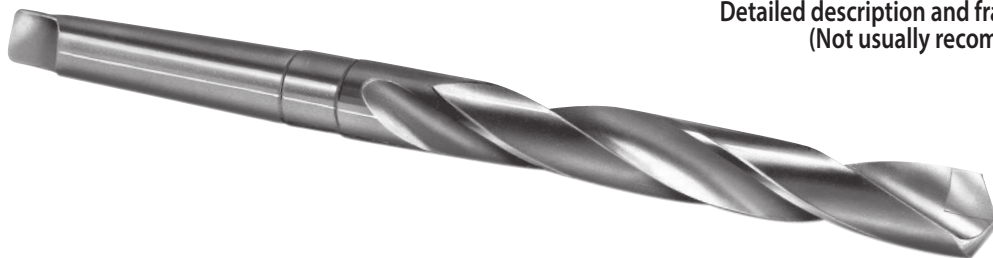
TOOL DIAMETER		MORSE TAPER	LENGTH		TYPE 3668 EDP NO.	PRICE EACH
DECIMAL	FRACTIONAL		FLUTE	OVERALL		
.8438	27/32	2	6 1/8	10	366854	\$152.95
.8594	55/64	2	6 1/8	10	366855	186.50
.8750	7/8	2	6 1/8	10	366856	162.90
.9062	29/32	2	6 1/8	10	366858	174.95
1.0938	1 3/32	3	6 7/8	11 ½	366870	371.70
1.1250	1 1/8	3	7 7/8	11 ¾	366872	267.10
1.1562	1 5/32	3	7 ¼	11 7/8	366874	362.55
1.1875	1 3/16	3	7 3/8	12	366876	305.95
1.2500	1 ¼	3	7 7/8	12 ½	366880	327.35

CARBIDE TIPPED TAPER SHANK TWIST DRILLS

METRIC

TYPE 3660 - TAPER SHANK - 118° POINT

Detailed description and fractional sizes on page 136.
(Not usually recommended for drilling steel.)



DISCONTINUED - WHILE SUPPLIES LAST

For drill tolerances, see page 138.

TOOL DIAMETER		MORSE TAPER	FLUTE LENGTH		OVERALL LENGTH		118° POINT	
mm	INCH		mm	INCH	mm	INCH	TYPE 3660 EDP NO.	PRICE EACH
13.0	.5118	2	117	4 5/8	216	8 1/2	3660130	\$115.90
13.5	.5315	2	117	4 5/8	216	8 1/2	3660135	107.35
14.0	.5512	2	124	4 7/8	222	8 3/4	3660140	108.85
14.5	.5709	2	124	4 7/8	222	8 3/4	3660145	123.00
15.0	.5906	2	124	4 7/8	222	8 3/4	3660150	114.05
15.5	.6102	2	124	4 7/8	222	8 3/4	3660155	142.65
16.0	.6299	2	130	5 1/8	229	9	3660160	144.90
16.5	.6496	2	130	5 1/8	229	9	3660165	134.30
17.0	.6693	2	137	5 3/8	235	9 1/4	3660170	146.50
17.5	.6890	2	143	5 5/8	241	9 1/2	3660175	150.60
18.0	.7087	2	143	5 5/8	241	9 1/2	3660180	139.50
18.5	.7283	2	149	5 7/8	248	9 3/4	3660185	153.55
19.0	.7480	2	149	5 7/8	248	9 3/4	3660190	142.15

TOOL DIAMETER		MORSE TAPER	FLUTE LENGTH		OVERALL LENGTH		118° POINT	
mm	INCH		mm	INCH	mm	INCH	TYPE 3660 EDP NO.	PRICE EACH
20.0	.7874	3	156	6 1/8	273	10 3/4	3660200	\$164.90
21.0	.8268	3	156	6 1/8	273	10 3/4	3660210	164.90
22.0	.8661	3	156	6 1/8	273	10 3/4	3660220	161.45
23.0	.9055	3	156	6 1/8	273	10 3/4	3660230	166.80
24.0	.9449	3	162	6 3/8	279	11	3660240	192.55
25.0	.9843	3	162	6 3/8	279	11	3660250	197.50
26.0	1.0236	3	165	6 1/2	283	11 1/8	3660260	295.85
28.0	1.1024	4	181	7 1/8	324	12 3/4	3660280	327.95
30.0	1.1811	4	187	7 3/8	330	13	3660300	394.90
32.0	1.2598	4	216	8 1/2	359	14 1/8	3660320	490.40
34.0	1.3386	4	222	8 3/4	365	14 3/8	3660340	526.85
36.0	1.4173	4	232	9 1/8	375	14 3/4	3660360	603.20
38.0	1.4961	4	238	9 3/8	381	15	3660380	627.25

CARBIDE TIPPED HARD STEEL DIE DRILLS

DISCONTINUED - WHILE SUPPLIES LAST

TYPE 3670 - 118° POINT NEGATIVE EDGE

For steels in the range of 50 Rc to 65 Rc.

TYPE 3672 - 118° POINT POSITIVE EDGE

For cast iron, high temperature alloys and steels up to 50 Rc.

Detailed description and fractional sizes on page 138.



For drill tolerances, see page 150.

While Supplies Last.

While Supplies Last.

TOOL DIAMETER		FLUTE LENGTH		OVERALL LENGTH		NEG. 118° PT TYPE 3670 EDP NO.	POS. 118° PT TYPE 3672 EDP NO.	BOTH TYPES PRICE
mm	INCH	mm	INCH	mm	INCH			
5.0	.1969	38	1 1/2	89	3 1/2	3670050	3672050	\$46.05
5.5	.2165	45	1 3/4	95	3 3/4	3670055	3672055	51.15
6.0	.2362	51	2	102	4	3670060	3672060	51.50
6.5	.2559	51	2	102	4	3670065	3672065	54.50
7.0	.2756	57	2 1/4	108	4 1/4	3670070	3672070	54.50
7.5	.2953	57	2 1/4	108	4 1/4	3670075	3672075	56.95
8.0	.3150	64	2 1/2	114	4 1/2	3670080	3672080	61.50
8.5	.3346	70	2 3/4	121	4 3/4	3670085	3672085	61.50
9.0	.3543	70	2 3/4	121	4 3/4	3670090	3672090	65.50
9.5	.3740	76	3	127	5	3670095	3672095	62.15

TOOL DIAMETER		FLUTE LENGTH		OVERALL LENGTH		NEG. 118° PT TYPE 3670 EDP NO.	POS. 118° PT TYPE 3672 EDP NO.	BOTH TYPES PRICE
mm	INCH	mm	INCH	mm	INCH			
10.0	.3937	76	3	133	5 1/4	3670100	3672100	\$76.45
10.5	.4134	76	3	133	5 1/4	3670105	3672105	88.60
11.0	.4331	76	3	140	5 1/2	3670110	3672110	124.75
11.5	.4528	76	3	140	5 1/2	3670115	3672115	93.30
12.0	.4724	83	3 1/4	146	5 3/4	3670120	3672120	114.05
12.5	.4921	89	3 1/2	152	6	3670125	3672125	114.05
13.0	.5118	89	3 1/2	152	6	3670130	3672130	130.85
13.5	.5315	89	3 1/2	152	6	3670135	3672135	130.85
14.0	.5512	89	3 1/2	152	6	3670140	3672140	135.60
-	-	-	-	-	-	-	-	-

CARBIDE TIPPED HARD STEEL DIE DRILLS

TYPE 3670 - 118° PT. NEGATIVE EDGE

For steels in the range of 50 Rc to 65 Rc.

TYPE 3672 - 118° PT. POSITIVE EDGE - DISCONTINUED WHILE SUPPLIES LAST

For cast iron, high temperature alloys and steels up to 50 Rc.

TYPE 3671 - 140° PT. NEGATIVE EDGE - DISCONTINUED WHILE SUPPLIES LAST

For steels in the range of 50 Rc to 65 Rc.

TYPE 3673 - 140° PT. POSITIVE EDGE - DISCONTINUED WHILE SUPPLIES LAST

For cast iron, high temperature alloys and steels up to 50 Rc.

Heavy duty hardened tool steel bodies provide shock resilient support for the thick, long carbide tip. Straight flutes and straight shank. Drill body diameter is smaller than tool diameter.

Die drills may be run at speeds from 75 to 100 SFPM. Apply light feed (.001-.003 I.P.R.) with steady pressure. Flood the point with coolant and withdraw frequently to clear chips



For metric sizes, see page 137.
For drill tolerances, see page 150.

TOOL DIAMETER		LENGTH		NEG. 118° POINT TYPE 3670 EDP NO.	POS. 118° POINT TYPE 3672 EDP NO.	BOTH TYPES PRICE	NEG. 140° POINT TYPE 3671 EDP NO.	POS. 140° POINT TYPE 3673 EDP NO.	BOTH TYPES PRICE
DECIMAL	FRACTION	FLUTE	OVERALL						
.0625	1/16*	-	1 1/2	367004	-	\$45.60	367104	-	\$45.60
.0781	5/64*	-	1 1/2	367005	-	45.60	367105	-	45.60
.0938	3/32*	-	2	367006	-	50.15	367106	-	50.15
.1094	7/64*	-	2	367007	-	50.15	367107	-	50.15
.1250	1/8*	-	2	367008	-	51.60	367108	-	51.60
.1406	9/64*	-	2	367009	-	51.60	367109	-	51.60
.1562	5/32*	-	2	367010	-	54.35	367110	-	54.35
.1719	11/64*	-	2 3/8	367011	-	54.35	367111	-	54.35
.1875	3/16	1 1/2	3 1/2	367012	367212	49.30	367112	367312	49.30
.2031	13/64	1 1/2	3 1/2	367013	367213	49.30	367113	367313	49.30
.2188	7/32	1 3/4	3 3/4	367014	367214	50.90	367114	367314	50.90
.2344	15/64	1 3/4	3 3/4	367015	367215	52.50	367115	367315	52.50
.2500	1/4	2	4	367016	367216	52.50	367116	367316	52.50
.2656	17/64	2	4	367017	367217	55.50	367117	367317	55.50
.2812	9/32	2 1/4	4 1/4	367018	367218	55.50	367118	367318	55.50
.2969	19/64	2 1/4	4 1/4	367019	367219	58.15	367119	367319	58.15
.3125	5/16	2 1/2	4 1/2	367020	367220	58.15	367120	367320	58.15
.3281	21/64	2 1/2	4 1/2	367021	367221	61.90	367121	367321	61.90
.3438	11/32	2 3/4	4 3/4	367022	367222	61.90	367122	367322	61.90
.3594	23/64	2 3/4	4 3/4	367023	367223	66.60	367123	367323	66.60
.3750	3/8	3	5	367024	367224	66.60	367124	367324	66.60
.3906	25/64	3	5	367025	367225	75.10	367125	367325	75.10
.4062	13/32	3	5 1/4	367026	367226	77.85	367126	367326	77.85
.4219	27/64	3	5 1/4	367027	367227	84.15	367127	367327	84.15
.4375	7/16	3	5 1/2	367028	367228	90.45	367128	367328	90.45
.4531	29/64	3	5 1/2	367029	367229	94.85	367129	367329	94.85
.4688	15/32	3 1/4	5 3/4	367030	367230	99.35	367130	367330	99.35
.4844	31/64	3 1/4	5 3/4	367031	367231	120.45	367131	367331	120.45
.5000	1/2	3 1/2	6	367032	367232	116.50	367132	367332	116.50
.5312	17/32	3 1/2	6	367034	367234	133.55	367134	367334	133.55
.5625	9/16	3 1/2	6	367036	367236	138.20	367136	367336	138.20
.5938	19/32	4	7	367038	367238	146.25	367138	367338	146.25
.6250	5/8	4	7	367040	367240	150.70	367140	367340	150.70
.6562	21/32	4 1/2	7 1/2	367042	367242	161.35	367142	367342	161.35
.6875	11/16	4 1/2	7 1/2	367044	367244	165.55	367144	367344	165.55
.7188	23/32	4 3/4	8	367046	367246	173.55	367146	367346	173.55
.7500	3/4	4 3/4	8	367048	367248	178.35	367148	367348	178.35
.7812	25/32	4 3/4	8	367050	367250	344.30	367150	367350	344.30
.8125	13/16	4 3/4	8	367052	367252	319.60	367152	367352	319.60
.8750	7/8	4 3/4	8	367056	367256	326.25	367156	367356	326.25
.9375	15/16	4 3/4	8	367060	367260	363.40	367160	367360	363.40
1.0000	1	4 3/4	8	367064	367264	385.50	367164	367364	385.50

SOLID CARBIDE DIE DRILLS

TYPE 3893 - 140° POINT

Two straight flutes. Designed for drilling abrasive and tough materials.



**DISCONTINUED
WHILE SUPPLIES LAST**

SOLID CARBIDE SPADE DRILLS

TYPE 3674 - 120° POINT

Solid Carbide.
Cam relieved 120° point. Drill body diameter is smaller than tool diameter to prevent gauling.

TYPE 3675 - 140° POINT

Same as Type 3674 above, except with 140° cam relieved point designed for drilling abrasive and tough materials.

**DISCONTINUED
WHILE SUPPLIES LAST**



While Supplies Last.

TOOL DIAMETER		LENGTH		TYPE 3893 EDP NO.	PRICE EACH
DECIMAL	FRAC.	FLUTE	OVERALL		
.0469	3/64	1/2	1 1/2	389303	\$17.45
.0625	1/16	5/8	1 3/4	389304	17.45
.0781	5/64	3/4	1 3/4	389305	18.15
.0938	3/32	3/4	1 3/4	389306	18.75
.1094	7/64	7/8	1 7/8	389307	19.75
.1250	1/8	7/8	1 7/8	389308	20.80
.1406	9/64	1	2	389309	24.35
.1562	5/32	1	2 1/8	389310	25.55
.1719	11/64	1 1/8	2 1/8	389311	31.45
.1875	3/16	1 1/8	2 1/4	389312	34.15
.2031	13/64	1 3/16	2 1/4	389313	37.65
.2188	7/32	1 1/4	2 1/2	389314	39.35
.2344	15/64	1 5/16	2 1/2	389315	45.65
.2500	1/4	1 3/8	2 1/2	389316	43.05
.2656	17/64	1 7/16	2 3/4	389317	70.50
.2812	9/32	1 1/2	2 3/4	389318	72.85
.2969	19/64	1 9/16	2 3/4	389319	76.60
.3125	5/16	1 5/8	2 3/4	389320	67.00
.3281	21/64	1 3/4	3	389321	79.75
.3438	11/32	1 3/4	3	389322	83.60
.3594	23/64	1 3/4	3	389323	92.55
.3750	3/8	1 7/8	3	389324	88.15
.3906	25/64	2	3 1/4	389325	103.75
.4062	13/32	2	3 1/4	389326	115.10
.4219	27/64	2	3 1/2	389327	118.00
.4375	7/16	2 1/16	3 1/2	389328	118.25
.4531	29/64	2 1/8	3 3/4	389329	145.20
.4688	15/32	2 1/8	3 3/4	389330	145.75
.4844	31/64	2 1/4	3 3/4	389331	146.65
.5000	1/2	2 1/4	3 3/4	389332	130.75

BOTH TYPES: For shallow holes, approximately 2 tool diameters deep. The short heavy construction allows more rigid hole drilling for tough applications where longer length drills are not needed.

While Supplies Last.

TOOL DIAMETER		OVERALL LENGTH	120° PT.	140° PT.	BOTH TYPES PRICE
DECIMAL	FRAC.		TYPE 3674 EDP NO.	TYPE 3675 EDP NO.	
.0938	3/32*	2	367406	367506	\$29.15
.1094	7/64*	2	367407	367507	29.75
.1250	1/8*	2	367408	367508	29.75
.1406	9/64*	2	367409	367509	32.15
.1562	5/32*	2	367410	367510	37.05
.1719	11/64*	3	367411	367511	39.55
.1875	3/16*	3	367412	367512	46.80
.2031	13/64*	3	367413	367513	52.65

CARBIDE TIPPED AIRCRAFT EXTENSION DRILLS

TYPE 3610 - 135° SPLIT POINT - 6" OVERALL LENGTH

6" overall length aircraft extension drill. 135° split point per NAS 907 specifications.



TYPE 3611 - 135° SPLIT POINT - 12" OVERALL LENGTH

Same as Type 3610 above, except 12" overall length.



BOTH TYPES: For drilling holes where reach is normally not accessible with jobbers or taper length drills. Feeds should be light to medium range. Not recommended for deep hole applications or for drilling steel.

For drill tolerances, see page 150.

TOOL DIAMETER				6" OVERALL LENGTH				12" OVERALL LENGTH				TOOL DIAMETER				6" OVERALL LENGTH				12" OVERALL LENGTH			
DECIMAL	FRAC.	WIRE LETTER	FLUTE LENGTH	TYPE 3610 EDP NO.	PRICE EACH	TYPE 3611 EDP NO.	PRICE EACH	DECIMAL	FRAC.	WIRE LETTER	FLUTE LENGTH	TYPE 3610 EDP NO.	PRICE EACH	TYPE 3611 EDP NO.	PRICE EACH	DECIMAL	FRAC.	WIRE LETTER	FLUTE LENGTH	TYPE 3610 EDP NO.	PRICE EACH	TYPE 3611 EDP NO.	PRICE EACH
.1160		32	1 5/8	361232	\$42.75	361332	\$50.55	.2380		B	2 3/4	361402	\$55.45	361502	\$65.00	.1200		31	1 5/8	361231	38.40	361331	45.10
.1250	1/8		1 5/8	361008	29.75	361108	35.05	.2460		C	2 3/4	361403	55.45	361503	65.00	.1285		30	1 5/8	361230	40.50	361330	47.55
.1405		29	1 3/4	361229	41.75	361329	49.15	.2570		D	2 3/4	361404	54.45	361504	64.00	.1406		28	1 3/4	361228	42.40	361328	50.05
.1440		27	1 3/4	361227	43.45	361327	51.00	.2656	17/64	E	2 3/4	361016	39.75	361116	46.80	.1406	9/64		1 3/4	361009	32.25	361109	37.95
.1470		26	1 7/8	361226	42.40	361326	50.05	.2660		F	2 7/8	361406	56.85	361506	66.85	.1440		27	1 3/4	361227	43.45	361327	51.00
.1495		25	1 7/8	361225	42.40	361325	50.05	.2720		G	2 7/8	361407	58.15	361507	68.45	.1470		26	1 7/8	361226	42.40	361326	50.05
.1520		24	2	361224	43.45	361324	51.00	.2770		H	2 7/8	361408	59.40	361508	69.90	.1495		25	1 7/8	361225	42.40	361325	50.05
.1540		23	2	361223	42.40	361323	50.05	.2810		I	2 7/8	361409	58.15	361509	68.45	.1520		24	2	361224	43.45	361324	51.00
.1562	5/32		2	361010	31.60	361110	37.20	.2812	9/32	J	2 7/8	361410	59.40	361510	69.90	.1540		23	2	361223	42.40	361323	50.05
.1570		22	2	361222	46.35	361322	54.60	.2900		K	2 15/16	361411	59.40	361511	69.90	.1562	5/32		2	361010	31.60	361110	37.20
.1590		21	2 1/8	361221	44.95	361321	53.00	.2950		L	2 15/16	361412	59.40	361512	69.90	.1570		22	2	361222	46.35	361322	54.60
.1610		20	2 1/8	361220	46.10	361320	54.20	.2969	19/64	M	3 1/16	361413	65.45	361513	77.05	.1590		21	2 1/8	361221	44.95	361321	53.00
.1660		19	2 1/8	361219	46.10	361319	54.20	.3020		N	3 1/16	361414	64.00	361514	75.35	.1610		20	2 1/8	361220	46.10	361320	54.20
.1695		18	2 1/8	361218	46.10	361318	54.20	.3125	5/16		3 3/16	361020	46.10	361120	54.20	.1660		19	2 1/8	361219	46.10	361319	54.20
.1719		17	2 1/8	361011	34.60	361111	40.55	.3160		O	3 3/16	361415	60.90	361515	71.55	.1695		18	2 1/8	361218	46.10	361318	54.20
.1730		17	2 3/16	361217	46.10	361317	54.20	.3230		P	3 3/16	361416	64.75	361516	76.10	.1719	11/64		2 1/8	361011	34.60	361111	40.55
.1770		16	2 3/16	361216	44.95	361316	53.00	.3281	21/64		3 3/16	361021	48.95	361121	57.70	.1730		17	2 3/16	361217	46.10	361317	54.20
.1800		15	2 3/16	361215	46.35	361315	54.60	.3320		Q	3 7/16	361417	66.55	361517	78.20	.1770		16	2 3/16	361216	44.95	361316	53.00
.1820		14	2 3/16	361214	44.95	361314	53.00	.3390		R	3 7/16	361418	64.75	361518	76.10	.1800		15	2 3/16	361215	46.35	361315	54.60
.1850		13	2 5/16	361213	44.95	361313	53.00	.3438	11/32		3 7/16	361022	48.95	361122	57.70	.1820		14	2 3/16	361214	44.95	361314	53.00
.1875	3/16		2 5/16	361012	33.70	361112	39.75	.3480		S	3 1/2	361419	69.95	361519	82.25	.1850		13	2 5/16	361213	44.95	361313	53.00
.1890		12	2 5/16	361212	46.85	361312	55.10	.3580		T	3 1/2	361420	71.75	361520	84.35	.1875	3/16		2 5/16	361012	33.70	361112	39.75
.1910		11	2 5/16	361211	47.40	361311	55.95	.3594	23/64		3 1/2	361023	52.25	361123	61.25	.1890		12	2 5/16	361212	46.85	361312	55.10
.1935		10	2 7/16	361210	46.85	361310	55.10	.3680		U	3 5/8	361421	68.95	361521	81.25	.1910		11	2 5/16	361211	47.40	361311	55.95
.1960		9	2 7/16	361209	47.40	361309	55.95	.3750	3/8		3 5/8	361024	52.25	361124	61.25	.1935		10	2 7/16	361210	46.85	361310	55.10
.1990		8	2 7/16	361208	47.40	361308	55.95	.3770		V	3 5/8	361422	69.95	361522	82.25	.1960		9	2 7/16	361209	47.40	361309	55.95
.2010		7	2 7/16	361207	47.40	361307	55.95	.3860		W	3 3/4	361423	75.10	361523	88.30	.1990		8	2 7/16	361208	47.40	361308	55.95
.2031	13/64		2 7/16	361013	36.95	361113	43.45	.3906	25/64		3 3/4	361025	53.60	361125	63.15	.2010		7	2 7/16	361207	47.40	361307	55.95
.2040		6	2 1/2	361206	48.70	361306	57.35	.3970		X	3 3/4	361424	71.05	361524	83.65	.2031	13/64		2 7/16	361013	36.95	361113	43.45
.2055		5	2 1/2	361205	47.40	361305	55.95	.4040		Y	3 7/8	361425	73.75	361525	86.75	.2040		6	2 1/2	361206	48.70	361306	57.35
.2090		4	2 1/2	361204	44.60	361304	52.50	.4062	13/32		3 7/8	361026	52.90	361126	62.15	.2055		5	2 1/2	361205	47.40	361305	55.95
.2130		3	2 1/2	361203	47.40	361303	55.95	.4130		Z	3 7/8	361426	83.25	361526	97.85	.2090		4	2 1/2	361204	44.60	361304	52.50
.2188	7/32		2 1/2	361014	36.95	361114	43.45	.4219	27/64		3 15/16	361027	58.15	361127	68.45	.2130		3	2 1/2	361203	47.40	361303	55.95
.2210		2	2 5/8	361202	46.70	361302	54.85	.4375	7/16		4 1/16	361028	58.15	361128	68.45	.2188	7/32		2 1/2	361014	36.95	361114	43.45
.2280		1	2 5/8	361201	46.10	361301	54.20	.4531	29/64		4 3/16	361029	66.80	361129	78.60	.2210		2	2 5/8	361202	46.70	361302	54.85
.2340		A	2 5/8	361401	55.45	361501	65.00	.4688	15/32		4 5/16	361030	65.45	361130	77.05	.2280		1	2 5/8	361201	46.10	361301	54.20
.2344	15/64		2 5/8	361015	39.75	361115	46.80	.4844	31/64		4 3/8	361031	73.40	361131	86.35	.2340		A	2 5/8	361401	55.45	361501	65.00
								.5000	1/2		4 1/2	361032	73.40	361132	86.35	.2344	15/64		2 5/8	361015	39.75	361115	46.80

HIGH SPEED STEEL COBALT JOBBERS LENGTH DRILLS FOR STEEL



DISCONTINUED - WHILE SUPPLIES LAST
TYPE 3699 - JOBBERS LENGTH- 135° SPLIT POINT

6 piece standard package quantity over .3020" diameter
 12 piece standard package quantity up to .3020" diameter

High speed steel cobalt jobbers length drills for most materials
 including steels, stainless steels, and steel alloys.

TOOL DIAMETER		LENGTH		135° POINT	
DEC.	WIRE LTR, FRAC	FLT.	OVER-ALL	TYPE 3699 EDP NO.	PRICE EACH
.0400	60	1/16	1 5/8	36990400	\$3.35
.0410	59	1/16	1 5/8	36990410	3.35
.0420	58	1/16	1 5/8	36990420	3.35
.0430	57	3/4	1 3/4	36990430	3.35
.0465	56	3/4	1 3/4	36990465	3.35
.0520	55	7/8	1 7/8	36990520	2.85
.0550	54	7/8	1 7/8	36990550	2.85
.0595	53	7/8	1 7/8	36990595	2.85
.0625	52	7/8	1 7/8	36990625	2.65
.0635	52	7/8	1 7/8	36990635	2.65
.0670	51	1	2	36990670	2.65
.0700	50	1	2	36990700	2.65
.0730	49	1	2	36990730	2.65
.0760	48	1	2	36990760	2.65
.0781	5/64	1	2	36990781	2.65
.0785	47	1	2	36990785	2.65
.0810	46	1 1/8	2 1/8	36990810	2.65
.0820	45	1 1/8	2 1/8	36990820	2.65
.0860	44	1 1/8	2 1/8	36990860	2.65
.0890	43	1 1/4	2 1/4	36990890	2.65
.0935	42	1 1/4	2 1/4	36990935	2.65
.0938	3/32	1 1/4	2 1/4	36990938	2.65
.0960	41	1 3/8	2 3/8	36990960	2.65
.0980	40	1 3/8	2 3/8	36990980	2.75
.0995	39	1 3/8	2 3/8	36990995	2.75
.1015	38	1 7/16	2 1/2	36991015	2.75
.1040	37	1 7/16	2 1/2	36991040	2.85
.1065	36	1 7/16	2 1/2	36991065	2.85
.1094	7/64	1 1/2	2 5/8	36991094	2.80
.1100	35	1 1/2	2 5/8	36991100	2.85
.1110	34	1 1/2	2 5/8	36991110	2.85
.1130	33	1 1/2	2 5/8	36991130	2.85
.1160	32	1 5/8	2 3/4	36991160	3.10
.1200	31	1 5/8	2 3/4	36991200	3.10
.1250	30	1 5/8	2 3/4	36991250	3.45
.1285	30	1 5/8	2 3/4	36991285	3.15
.1360	29	1 3/4	2 7/8	36991360	3.35
.1405	28	1 3/4	2 7/8	36991405	3.45

TOOL DIAMETER		LENGTH		135° POINT	
DEC.	WIRE LTR, FRAC	FLT.	OVER-ALL	TYPE 3699 EDP NO.	PRICE EACH
.1406	9/64	1 3/4	2 7/8	3699099	\$3.45
.1440	27	1 7/8	3	36991440	3.65
.1470	26	1 7/8	3	36991470	3.65
.1495	25	1 7/8	3	36991495	3.65
.1520	24	2	3 1/8	36991520	4.15
.1540	23	2	3 1/8	36991540	4.15
.1562	5/32	2	3 1/8	36991562	3.85
.1570	22	2	3 1/8	36991570	4.15
.1590	21	2 1/8	3 1/4	36991590	4.15
.1610	20	2 1/8	3 1/4	36991610	4.15
.1660	19	2 1/8	3 1/4	36991660	4.15
.1695	18	2 1/8	3 1/4	36991695	4.20
.1719	1/64	2 1/8	3 1/4	36991719	4.00
.1730	17	2 3/16	3 3/8	36991730	4.60
.1770	16	2 3/16	3 3/8	36991770	4.70
.1800	15	2 3/16	3 3/8	36991800	5.05
.1820	14	2 3/16	3 3/8	36991820	5.05
.1850	13	2 3/16	3 1/2	36991850	5.05
.1875	3/16	2 3/16	3 1/2	36991875	4.55
.1890	12	2 3/16	3 1/2	36991890	5.30
.1910	11	2 3/16	3 1/2	36991910	5.30
.1935	10	2 3/16	3 5/8	36991935	5.30
.1960	9	2 3/16	3 5/8	36991960	5.30
.1990	8	2 3/16	3 5/8	36991990	5.30
.2010	7	2 3/16	3 5/8	36992010	5.30
.2031	13/64	2 3/16	3 5/8	36992031	5.45
.2040	6	2 1/2	3 3/4	36992040	6.85
.2055	5	2 1/2	3 3/4	36992055	6.85
.2090	4	2 1/2	3 3/4	36992090	6.85
.2130	3	2 1/2	3 3/4	36992130	6.85
.2188	7/32	2 1/2	3 3/4	36992188	5.95
.2210	2	2 5/8	3 7/8	36992210	7.30
.2280	1	2 5/8	3 7/8	36992280	7.30
.2340	A	2 5/8	3 7/8	36992340	8.40
.2344	15/64	2 5/8	3 7/8	36992344	6.30
.2380	B	2 3/4	4	36992380	9.65
.2420	C	2 3/4	4	36992420	9.65
.2460	D	2 3/4	4	36992460	9.75

TOOL DIAMETER		LENGTH		135° POINT	
DEC.	WIRE LTR, FRAC	FLT.	OVER-ALL	TYPE 3699 EDP NO.	PRICE EACH
.2500	1/4	2 3/4	4	369916	\$6.70
.2570	F	2 7/8	4 1/8	36992570	10.15
.2610	G	2 7/8	4 1/8	36992610	10.50
.2656	17/64	2 7/8	4 1/8	369917	7.70
.2660	H	2 7/8	4 1/8	36992660	10.85
.2720	I	2 7/8	4 1/8	36992720	10.90
.2770	J	2 7/8	4 1/8	36992770	11.20
.2810	K	2 15/16	4 1/4	36992810	11.40
.2812	9/32	2 15/16	4 1/4	36992812	8.05
.2900	L	2 15/16	4 1/4	36992900	12.30
.2950	M	3 1/16	4 3/8	36992950	13.10
.2969	19/64	3 1/16	4 3/8	369919	9.80
.3020	N	3 1/16	4 3/8	36993020	13.10
.3125	5/16	3 3/16	4 1/2	369920	10.45
.3160	O	3 1/16	4 1/2	36993160	14.40
.3230	P	3 3/16	4 3/8	36993230	15.40
.3281	21/64	3 3/16	4 5/8	369921	11.55
.3320	Q	3 3/16	4 3/4	36993320	15.90
.3390	R	3 7/16	4 3/4	36993390	15.90
.3438	11/32	3 7/16	4 3/4	369922	12.65
.3480	S	3 1/2	4 7/8	36993480	19.45
.3594	23/64	3 1/2	4 7/8	369923	13.95
.3580	T	3 1/2	4 7/8	36993580	19.45
.3680	U	3 5/8	5	36993680	19.45
.3750	3/8	3 5/8	5	369924	14.40
.3770	V	3 5/8	5	36993770	21.40
.3860	W	3 3/4	5 1/8	36993860	21.40
.3960	25/64	3 3/4	5 1/8	369925	16.60
.3970	X	3 3/4	5 1/8	36993970	21.40
.4040	Y	3 7/8	5 1/4	36994040	22.75
.4062	13/32	3 7/8	5 1/4	369926	17.20
.4130	Z	3 7/8	5 1/4	36994130	24.80
.4210	27/64	3 15/16	5 3/8	369927	19.05
.4375	7/16	4 1/16	5 1/2	369928	19.45
.4531	29/64	4 3/16	5 5/8	369929	23.40
.4688	15/32	4 5/16	5 3/4	369930	23.80
.4844	31/64	4 3/8	5 7/8	369931	24.55
.5000	1/2	4 1/2	6	369932	24.80

CARBIDE TIPPED STRAIGHT FLUTE COOLANT DRILLS

DISCONTINUED - WHILE SUPPLIES LAST

TYPE 3658 - 125° 4 FACET POINT - EXTRA LONG LENGTH



Carbide tip brazed to hardened tool steel bodies. Self centering point with polished straight flutes for hole straightness and chip removal capacity. Shank diameter is same size as tool diameter. Drill body diameter is smaller than tool diameter. Two coolant holes.

Tool and shank diameter tolerances: +.000"/-.001"

While Supplies Last.

While Supplies Last.

TOOL DIAMETER		LENGTH		TYPE 3658 EDP NO.	PRICE EACH	DECIMAL SIZE RANGE*
DECIMAL	FRAC.	FLUTE	OVERALL			
.3125	5/16	8	10	365820	\$387.90	.3100 - .3160
.3438	11/32	8	10	365822	387.90	.3281 - .3460
.3750	3/8	9	11	365824	410.00	.3594 - .3770
.4062	13/32	9	11	365826	466.70	.3906 - .4080
.4375	7/16	9	11	365828	466.70	.4200 - .4390
.4688	15/32	9 3/4	12	365830	492.85	.4531 - .4710
.5000	1/2	9 3/4	12	365832	492.85	.4800 - .5030
.5312	17/32	9 3/4	12	365834	528.95	.5118 - .5330

TOOL DIAMETER		LENGTH		TYPE 3658 EDP NO.	PRICE EACH	DECIMAL SIZE RANGE*
DECIMAL	FRAC.	FLUTE	OVERALL			
.5625	9/16	10 3/4	13	365836	\$569.70	.5430 - .5650
.6250	5/8	10 3/4	13	365840	601.50	.6070 - .6270
.6875	11/16	11 3/4	14	365844	626.40	.6693 - .6900
.7500	3/4	11 3/4	14	365848	663.00	.7320 - .7530
.8125	13/16	12 3/4	15	365852	704.10	.7953 - .8160
.8750	7/8	12 3/4	15	365856	758.70	.8570 - .8780
.9375	15/16	13 3/4	16	365860	810.60	.9180 - .9390
1.0000	1	13 3/4	16	365864	877.90	.9820 - 1.0030

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*Call for decimal size pricing.

CARBIDE TIPPED STRAIGHT FLUTE COOLANT DRILLS

DISCONTINUED - WHILE SUPPLIES LAST

TYPE 3650 - 125° 4 FACET POINT - LONG LENGTH

Carbide tip brazed to hardened tool steel bodies. Self centering point with polished straight flutes for hole straightness and chip removal capacity. Shank diameter is same size as tool diameter. Drill body diameter is smaller than tool diameter. Two coolant holes. Where possible use shorter length
Type 3652 for greater rigidity.



While Supplies Last.

TOOL DIAMETER		LENGTH		TYPE 3650 EDP NO.	PRICE EACH	DECIMAL SIZE RANGE*
DECIMAL	FRACTIONAL	FLUTE	OVERALL			
.2500	1/4	4 5/8	6 1/8	365016	\$268.80	.2490 - .2530
.2656	17/64	4 3/4	6 1/4	365017	268.80	-
.2812	9/32	4 3/4	6 1/4	365018	268.80	.2640 - .2840
.2969	19/64	4 7/8	6 3/8	365019	268.80	-
.3125	5/16	4 7/8	6 3/8	365020	268.80	.2950 - .3160
.3281	21/64	5	6 1/2	365021	258.70	-
.3438	11/32	5	6 1/2	365022	258.70	.3260 - .3460
.3594	23/64	5 1/4	6 3/4	365023	252.10	-
.3750	3/8	5 1/4	6 3/4	365024	261.85	.3540 - .3770
.3906	25/64	5 1/2	7	365025	258.70	-
.4062	13/32	5 1/2	7	365026	258.70	.3850 - .4080
.4219	27/64	5 3/4	7 1/4	365027	267.10	-
.4375	7/16	5 3/4	7 1/4	365028	267.10	.4100 - .4390
.4531	29/64	5 3/4	7 1/2	365029	283.90	-
.4688	15/32	5 3/4	7 1/2	365030	283.90	.4391 - .4724
.4844	31/64	5 3/4	7 3/4	365031	292.40	-
.5000	1/2	5 3/4	7 3/4	365032	292.40	.4725 - .5030
.5156	33/64	6	8	365033	313.75	-
.5312	17/32	6	8	365034	313.75	.5031 - .5330
.5469	35/64	6 1/4	8 1/4	365035	325.00	-
.5625	9/16	6 1/4	8 1/4	365036	330.45	.5331 - .5650

TOOL DIAMETER		LENGTH		TYPE 3650 EDP NO.	PRICE EACH	DECIMAL SIZE RANGE*
DECIMAL	FRACTIONAL	FLUTE	OVERALL			
.5781	37/64	6 3/4	8 3/4	365037	\$391.25	-
.5938	19/32	6 3/4	8 3/4	365038	397.90	.5651 - .5950
.6094	39/64	6 3/4	8 3/4	365039	391.25	-
.6250	5/8	6 3/4	8 3/4	365040	397.90	.5951 - .6270
.6406	41/64	7	9	365041	412.35	-
.6562	21/32	7	9	365042	419.50	.6271 - .6570
.6719	43/64	7 1/4	9 1/4	365043	441.40	-
.6875	11/16	7 1/4	9 1/4	365044	449.25	.6571 - .6900
.7031	45/64	7 1/2	9 1/2	365045	458.30	-
.7188	23/32	7 1/2	9 1/2	365046	466.05	.6901 - .7220
.7344	47/64	7 3/4	9 3/4	365047	462.15	-
.7500	3/4	7 3/4	9 3/4	365048	470.25	.7221 - .7530
.7656	49/64	7 7/8	9 7/8	365049	499.95	-
.7812	25/32	7 7/8	9 7/8	365050	499.95	.7531 - .7840
.8125	13/16	8	10	365052	508.35	.7841 - .8160
.8438	27/32	8	10	365054	538.20	.8161 - .8470
.8750	7/8	8	10	365056	550.85	.8471 - .8780
.9062	29/32	8	10	365058	610.25	.8781 - .9090
.9375	15/16	8 3/4	10 3/4	365060	635.55	.9091 - .9390
.9688	31/32	9	11	365062	641.70	.9391 - .9700
1.0000	1	9	11	365064	641.70	.9701 - 1.0030

TYPE 3652 - 125° 4 FACET POINT - SHORT LENGTH

Same as Type 3650 above, except shorter length.

DISCONTINUED - WHILE SUPPLIES LAST



BOTH TYPES ON THIS PAGE:

Tool and shank diameter tolerances: +.000"/-.001".

While Supplies Last.

TOOL DIAMETER		LENGTH		TYPE 3652 EDP NO.	PRICE EACH	DECIMAL SIZE RANGE*
DECIMAL	FRACTIONAL	FLUTE	OVERALL			
.2500	1/4	2 1/2	4 29/32	365216	\$245.45	.2490 - .2530
.2656	17/64	2 3/4	5 5/32	365217	245.45	-
.2812	9/32	2 3/4	5 5/32	365218	245.45	.2640 - .2840
.2969	19/64	3 3/16	5 19/32	365219	245.45	-
.3125	5/16	3 3/16	5 19/32	365220	245.45	.2950 - .3160
.3281	21/64	3 7/16	5 27/32	365221	245.45	-
.3438	11/32	3 7/16	5 27/32	365222	245.45	.3260 - .3460
.3594	23/64	3 5/8	6 1/32	365223	248.05	-
.3750	3/8	3 5/8	6 1/32	365224	248.05	.3540 - .3770
.3906	25/64	3 7/8	6 5/32	365225	254.25	-
.4062	13/32	3 7/8	6 5/32	365226	254.25	.3850 - .4080
.4219	27/64	4 1/16	6 15/32	365227	262.85	-
.4375	7/16	4 1/16	6 15/32	365228	262.85	.4100 - .4390
.4531	29/64	4 5/16	6 23/32	365229	279.90	-
.4688	15/32	4 5/16	6 23/32	365230	279.90	.4391 - .4724
.4844	31/64	4 1/2	6 29/32	365231	288.05	-
.5000	1/2	4 1/2	6 29/32	365232	288.05	.4725 - .5030
.5156	33/64	4 13/16	7 7/32	365233	300.15	-
.5312	17/32	4 13/16	7 7/32	365234	305.15	.5031 - .5330
.5469	35/64	4 13/16	7 7/32	365235	316.60	-
.5625	9/16	4 13/16	7 7/32	365236	322.15	.5331 - .5650

TOOL DIAMETER		LENGTH		TYPE 3652 EDP NO.	PRICE EACH	DECIMAL SIZE RANGE*
DECIMAL	FRACTIONAL	FLUTE	OVERALL			
.5781	37/64	5 3/16	7 19/32	365237	\$379.50	-
.5938	19/32	5 3/16	7 19/32	365238	385.80	.5651 - .5950
.6094	39/64	5 3/16	7 19/32	365239	379.50	-
.6250	5/8	5 3/16	7 19/32	365240	385.80	.5951 - .6270
.6406	41/64	5 3/16	7 19/32	365241	406.80	-
.6562	21/32	5 3/16	7 19/32	365242	406.80	.6271 - .6570
.6719	43/64	5 5/8	8 1/32	365243	440.15	-
.6875	11/16	5 5/8	8 1/32	365244	440.75	.6571 - .6900
.7031	45/64	5 5/8	8 1/32	365245	453.25	-
.7188	23/32	5 5/8	8 1/32	365246	453.25	.6901 - .7220
.7344	47/64	6 1/16	8 15/32	365247	457.80	-
.7500	3/4	6 1/16	8 15/32	365248	457.80	.7221 - .7530
.7656	49/64	6 1/16	8 9/16	365249	479.20	-
.7812	25/32	6 1/16	8 9/16	365250	487.45	.7531 - .7840
.8125	13/16	6 1/16	8 9/16	365252	495.60	.7841 - .8160
.8438	27/32	6 1/2	9	365254	525.50	.8161 - .8470
.8750	7/8	6 1/2	9	365256	538.20	.8471 - .8780
.9062	29/32	6 15/16	9 7/16	365258	575.90	.8781 - .9090
.9375	15/16	6 15/16	9 7/16	365260	618.65	.9091 - .9390
.9688	31/32	6 15/16	9 7/16	365262	644.05	.9391 - .9700
1.0000	1	7 3/8	9 7/8	365264	660.90	.9701 - 1.0030

CARBIDE TIPPED STRAIGHT FLUTE COOLANT DRILLS

METRIC

DISCONTINUED - WHILE SUPPLIES LAST

TYPE 3650 - 125° 4 FACET POINT - LONG LENGTH

Carbide tip brazed to hardened tool steel bodies. Self centering point with polished straight flutes for hole straightness and chip removal capacity. Shank diameter is same size as tool diameter. Drill body diameter is smaller than tool diameter. Two coolant holes. Where possible use shorter length Type 3652 for greater rigidity.



While Supplies Last.

TOOL DIAMETER		LENGTH				TYPE 3650 EDP NO.	PRICE EACH	METRIC SIZE RANGE*
		FLUTE		OVERALL				
mm	INCH	mm	INCH	mm	INCH			
**6.5	.2559	117	4 3/8	156	6 1/8	3650065	\$280.15	-
7.0	.2756	121	4 3/4	159	6 1/4	3650070	280.15	6.706 - 7.214
7.5	.2953	124	4 7/8	162	6 3/8	3650075	280.15	7.493 - 8.026
8.0	.3150	124	4 7/8	162	6 3/8	3650080	280.15	-
8.5	.3346	127	5	165	6 1/2	3650085	270.55	8.280 - 8.788
9.0	.3543	133	5 1/4	171	6 3/4	3650090	270.55	8.992 - 9.576
9.5	.3740	133	5 1/4	171	6 3/4	3650095	270.55	-
10.0	.3937	140	5 1/2	178	7	3650100	270.55	9.779 - 10.363
10.5	.4134	146	5 3/4	184	7 1/4	3650105	280.15	10.414 - 11.151
11.0	.4331	146	5 3/4	184	7 1/4	3650110	280.15	-
11.5	.4528	146	5 3/4	191	7 1/2	3650115	302.75	11.153 - 12.000
12.0	.4724	146	5 3/4	191	7 1/2	3650120	302.75	-
12.5	.4921	146	5 3/4	197	7 3/4	3650125	309.20	12.002 - 12.776
13.0	.5118	152	6	203	8	3650130	328.45	12.779 - 13.538
13.5	.5315	152	6	203	8	3650135	328.45	-
14.0	.5512	159	6 1/4	210	8 1/4	3650140	344.55	13.541 - 14.351
14.5	.5709	171	6 3/4	222	8 3/4	3650145	418.50	14.354 - 15.113
15.0	.5906	171	6 3/4	222	8 3/4	3650150	418.50	-
15.5	.6102	171	6 3/4	222	8 3/4	3650155	418.50	15.116 - 15.926

While Supplies Last.

TOOL DIAMETER		LENGTH				TYPE 3650 EDP NO.	PRICE EACH	METRIC SIZE RANGE*
		FLUTE		OVERALL				
mm	INCH	mm	INCH	mm	INCH			
16.0	.6299	178	7	229	9	3650160	\$428.25	15.928 - 16.688
16.5	.6496	178	7	229	9	3650165	428.25	-
17.0	.6693	184	7 1/4	235	9 1/4	3650170	457.15	16.690 - 17.526
17.5	.6890	184	7 1/4	235	9 1/4	3650175	457.15	-
18.0	.7087	191	7 1/2	241	9 1/2	3650180	479.80	17.529 - 18.339
18.5	.7283	197	7 3/4	248	9 3/4	3650185	482.90	18.341 - 19.126
19.0	.7480	197	7 3/4	248	9 3/4	3650190	482.90	-
19.5	.7677	200	7 7/8	251	9 7/8	3650195	512.05	19.129 - 19.914
20.0	.7874	203	8	254	10	3650200	518.55	19.916 - 20.726
20.5	.8071	203	8	254	10	3650205	518.55	-
21.0	.8268	203	8	254	10	3650210	547.45	20.729 - 21.514
21.5	.8465	203	8	254	10	3650215	547.45	-
22.0	.8661	203	8	254	10	3650220	560.30	21.516 - 22.301
22.5	.8858	203	8	254	10	3650225	618.25	22.304 - 23.089
23.0	.9055	203	8	254	10	3650230	618.25	-
23.5	.9252	222	8 3/4	273	10 3/4	3650235	640.75	23.091 - 23.851
24.0	.9449	229	9	279	11	3650240	666.55	23.853 - 24.638
24.5	.9646	229	9	279	11	3650245	666.55	-
25.0	.9843	229	9	279	11	3650250	666.55	24.641 - 25.476

DISCONTINUED - WHILE SUPPLIES LAST

TYPE 3652 - 125° 4 FACET POINT - SHORT LENGTH

Same as Type 3650 above, except shorter length.



BOTH TYPES ON THIS PAGE:

Tool and shank diameter tolerances: +.000"/-.001".

TOOL DIAMETER		LENGTH				TYPE 3652 EDP NO.	PRICE EACH	METRIC SIZE RANGE*
		FLUTE		OVERALL				
mm	INCH	mm	INCH	mm	INCH			
**6.5	.2559	64	2 1/2	125	4 29/32	3652065	\$317.10	-
7.0	.2756	70	2 3/4	131	5 5/32	3652070	317.10	6.706 - 7.214
7.5	.2953	81	3 3/16	142	5 19/32	3652075	317.10	7.493 - 8.026
8.0	.3150	81	3 3/16	142	5 19/32	3652080	317.10	-
8.5	.3346	87	3 7/16	148	5 27/32	3652085	306.20	8.280 - 8.788
9.0	.3543	92	3 5/8	153	6 1/32	3652090	306.20	8.992 - 9.576
9.5	.3740	92	3 5/8	153	6 1/32	3652095	306.20	-
10.0	.3937	98	3 7/8	159	6 9/32	3652100	306.20	9.779 - 10.363
10.5	.4134	103	4 1/16	164	6 15/32	3652105	317.10	10.414 - 11.151
11.0	.4331	103	4 1/16	164	6 15/32	3652110	317.10	-
11.5	.4528	109	4 5/16	171	6 23/32	3652115	342.70	11.153 - 12.000
12.0	.4724	109	4 5/16	171	6 23/32	3652120	342.70	-
12.5	.4921	114	4 1/2	175	6 29/32	3652125	350.05	12.002 - 12.776
13.0	.5118	122	4 13/16	183	7 1/32	3652130	371.80	12.779 - 13.538
13.5	.5315	122	4 13/16	183	7 1/32	3652135	371.80	-
14.0	.5512	122	4 13/16	183	7 1/32	3652140	390.00	13.541 - 14.351
14.5	.5709	131	5 3/16	193	7 19/32	3652145	473.85	14.354 - 15.113
15.0	.5906	131	5 3/16	193	7 19/32	3652150	473.85	-
15.5	.6102	131	5 3/16	193	7 19/32	3652155	473.85	15.116 - 15.926

While Supplies Last.

TOOL DIAMETER		LENGTH				TYPE 3652 EDP NO.	PRICE EACH	METRIC SIZE RANGE*
		FLUTE		OVERALL				
mm	INCH	mm	INCH	mm	INCH			
16.0	.6299	131	5 3/16	193	7 19/32	3652160	\$484.70	15.928 - 16.688
16.5	.6496	131	5 3/16	193	7 19/32	3652165	484.70	-
17.0	.6693	143	5 5/8	204	8 1/32	3652170	517.50	16.690 - 17.526
17.5	.6890	143	5 5/8	204	8 1/32	3652175	517.50	-
18.0	.7087	143	5 5/8	204	8 1/32	3652180	543.25	17.529 - 18.339
18.5	.7283	154	6 1/16	215	8 15/32	3652185	546.65	18.341 - 19.126
19.0	.7480	154	6 1/16	215	8 15/32	3652190	546.65	-
19.5	.7677	154	6 1/16	217	8 1/16	3652195	579.70	19.129 - 19.914
20.0	.7874	154	6 1/16	217	8 1/16	3652200	587.00	19.916 - 20.726
20.5	.8071	154	6 1/16	217	8 1/16	3652205	587.00	-
21.0	.8268	165	6 1/2	229	9	3652210	619.65	20.729 - 21.514
21.5	.8465	165	6 1/2	229	9	3652215	619.65	-
22.0	.8661	165	6 1/2	229	9	3652220	634.30	21.516 - 22.301
22.5	.8858	176	6 15/16	240	9 7/16	3652225	699.90	22.304 - 23.089
23.0	.9055	176	6 15/16	240	9 7/16	3652230	699.90	-
23.5	.9252	176	6 15/16	240	9 7/16	3652235	725.40	23.091 - 23.851
24.0	.9449	176	6 15/16	240	9 7/16	3652240	754.50	23.853 - 24.638
24.5	.9646	176	6 15/16	240	9 7/16	3652245	748.20	-
25.0	.9843	187	7 3/8	251	9 7/8	3652250	754.50	24.641 - 25.476

CARBIDE TIPPED COOLANT TWIST DRILLS



DISCONTINUED - WHILE SUPPLIES LAST

TOOL DIAMETER		LENGTH		125° 4 FACET PT.		135° SPLIT PT.	
DECIMAL	FRAC.	FLUTE	OVERALL	TYPE 3656 EDP NO.	PRICE EACH	TYPE 3657 EDP NO.	PRICE EACH
.2500	1/4	3 3/4	6 1/8	365616	\$269.65	365716	\$337.50
.2812	9/32	3 7/8	6 1/4	365618	269.65	365718	332.15
.3125	5/16	4	6 3/8	365620	N/A	365720	N/A
.3438	11/32	4 1/8	6 1/2	365622	269.65	365722	332.15
.3750	3/8	4 1/4	6 3/4	365624	269.65	365724	332.15
.4062	13/32	4 3/8	7	365626	269.65	365726	356.40
.4375	7/16	4 5/8	7 1/4	365628	269.65	365728	356.40
.4688	15/32	4 7/8	7 1/2	365630	N/A	365730	N/A
.5000	1/2	5	7 3/4	365632	N/A	365732	N/A
.5312	17/32	5 1/4	8	365634	N/A	365734	N/A
.5625	9/16	5 3/8	8 1/4	365636	N/A	365736	N/A
.5938	19/32	5 5/8	8 1/2	365638	398.00	365738	474.70
.6250	5/8	5 3/4	8 3/4	365640	398.00	365740	474.70
.6562	21/32	5 7/8	9	365642	423.35	365742	504.85
.6875	11/16	6	9 1/4	365644	453.60	365744	540.70
.7188	23/32	6 3/16	9 1/2	365646	472.60	365746	554.65
.7500	3/4	6 3/8	9 3/4	365648	475.00	365748	557.70

TYPE 3656 - 125° 4 FACET POINT LONG LENGTH

Carbide tip brazed to hardened tool steel bodies with polished right spiral flutes. Self centering point. Shank and body diameters are same size as tool diameter. Two coolant holes. Heavy web with slow spiral for best rigidity and improved chip removal.

TYPE 3657 - 135° SPLIT POINT LONG LENGTH

Same as Type 3656 above, except with 135° cam relieved split point.

Tool and shank diameter tolerances: +.000"/-.001".

*Call for decimal size pricing.

TYPE 3654 - 125° 4 FACET POINT - STUB LENGTH

TYPE 3655 - 135° SPLIT POINT - STUB LENGTH

Same as Type 3656 & 3657 above, except shorter length and shank & body diameters are smaller than tool diameter.



DISCONTINUED - WHILE SUPPLIES LAST

Tool and shank diameter tolerances: +.000"/-.001".

TOOL DIAMETER		FLUTE LENGTH	SHANK & BODY DIAM.	OVER-ALL LENGTH	125° 4 FACET PT.		135° SPLIT PT.		TOOL DIAMETER DECIMAL	FRAC.	FLUTE LENGTH	SHANK & BODY DIAM.	OVER-ALL LENGTH	125° 4 FACET PT.		135° SPLIT PT.	
DECIMAL	FRAC.				TYPE 3654 EDP NO.	PRICE EACH	TYPE 3655 EDP NO.	PRICE EACH						TYPE 3654 EDP NO.	PRICE EACH	TYPE 3655 EDP NO.	PRICE EACH
.2500	1/4	1 17/32	.2344	3 15/16	365416	\$250.15	365516	\$307.50	.6719	43/64	3 13/16	.6562	6 7/32	365443	\$328.45	365543	\$378.00
.2656	17/64	1 19/32	.2500	4	365417	285.25	365517	328.45	.6875	11/16	3 13/16	.6719	6 7/32	365444	314.40	365544	368.70
.2812	9/32	1 19/32	.2656	4	365418	267.95	365518	324.65	.7031	45/64	3 15/16	.6875	6 11/32	365445	365.00	365545	418.00
.2969	19/64	1 3/4	.2812	4 5/32	365419	285.25	365519	328.45	.7188	23/32	3 15/16	.7031	6 11/32	365446	351.55	365546	405.70
.3125	5/16	1 3/4	.2969	4 5/32	365420	267.95	365520	324.65	.7344	47/64	4 1/8	.7188	6 17/32	365447	365.00	365547	418.00
.3281	21/64	1 15/16	.3125	4 11/32	365421	285.25	365521	328.45	.7500	3/4	4 1/8	.7344	6 17/32	365448	351.55	365548	405.70
.3438	11/32	1 15/16	.3281	4 11/32	365422	267.95	365522	324.65	.7656	49/64	4 9/32	.7500	6 25/32	365449	365.00	365549	418.00
.3594	23/64	2 1/8	.3438	4 17/32	365423	285.25	365523	341.65	.7812	25/32	4 9/32	.7656	6 25/32	365450	351.55	365550	405.70
.3750	3/8	2 1/8	.3594	4 17/32	365424	267.95	365524	324.65	.7969	51/64	4 7/16	.7812	6 15/16	365451	434.55	365551	484.25
.3906	25/64	2 5/32	.3750	4 11/16	365425	285.25	365525	361.60	.8125	13/16	4 7/16	.7969	6 15/16	365452	419.40	365552	473.15
.4062	13/32	2 9/32	.3906	4 11/16	365426	267.95	365526	348.10	.8281	53/64	4 19/32	.8125	7 3/32	365453	434.55	365553	484.25
.4219	27/64	2 1/2	.4062	4 29/32	365427	285.25	365527	361.60	.8438	27/32	4 19/32	.8281	7 3/32	365454	419.40	365554	473.15
.4375	7/16	2 1/2	.4219	4 29/32	365428	267.95	365528	348.10	.8594	55/64	4 11/16	.8438	7 3/16	365455	434.55	365555	484.25
.4531	29/64	2 21/32	.4375	5 1/16	365429	301.75	365529	361.60	.8750	7/8	4 11/16	.8594	7 3/16	365456	419.40	365556	473.15
.4688	15/32	2 21/32	.4531	5 1/16	365430	285.35	365530	348.10	.8906	57/64	4 7/8	.8750	7 3/8	365457	460.90	365557	514.15
.4844	31/64	2 13/16	.4688	5 7/32	365431	308.45	365531	361.60	.9062	29/32	4 7/8	.8906	7 3/8	365458	446.45	365558	500.40
.5000	1/2	2 13/16	.4844	5 7/32	365432	293.85	365532	348.10	.9219	59/64	5 1/32	.9062	7 17/32	365459	460.90	365559	514.15
.5156	33/64	3	.5000	5 13/32	365433	N/A	365533	N/A	.9375	15/16	5 1/32	.9219	7 17/32	365460	446.45	365560	500.40
.5312	17/32	3	.5156	5 13/32	365434	N/A	365534	N/A	.9531	61/64	5 3/16	.9375	7 11/16	365461	487.55	365561	540.60
.5469	35/64	3 1/8	.5312	5 17/32	365435	N/A	365535	N/A	.9688	31/32	5 3/16	.9531	7 11/16	365462	469.90	365562	523.90
.5625	9/16	3 1/8	.5469	5 17/32	365436	N/A	365536	N/A	.9844	63/64	5 5/16	.9688	7 13/16	365463	487.55	365563	540.60
.5781	37/64	3 9/32	.5625	5 11/16	365437	N/A	365537	N/A	1.0000	1	5 5/16	.9844	7 13/16	365464	469.90	365564	523.90
.5938	19/32	3 9/32	.5781	5 11/16	365438	314.40	365538	368.70	1.0312	1 1/32	5 11/16	1.0000	8 3/16	365466	507.10	365566	561.20
.6094	39/64	3 7/16	.5938	5 27/32	365439	328.45	365539	378.00	1.0625	1 1/16	5 11/16	1.0000	8 3/16	365468	523.90	365568	578.15
.6250	5/8	3 7/16	.6094	5 27/32	365440	314.40	365540	368.70	1.0938	1 3/32	5 11/16	1.0000	8 3/16	365470	537.50	365570	591.70
.6406	41/64	3 21/32	.6250	6 1/16	365441	328.45	365541	378.00	1.1250	1 1/8	5 11/16	1.0000	8 3/16	365472	557.85	365572	612.00
.6562	21/32	3 21/32	.6406	6 1/16	365442	314.40	365542	368.70	-	-	-	-	-	-	-	-	-

CARBIDE TIPPED COOLANT TWIST DRILLS

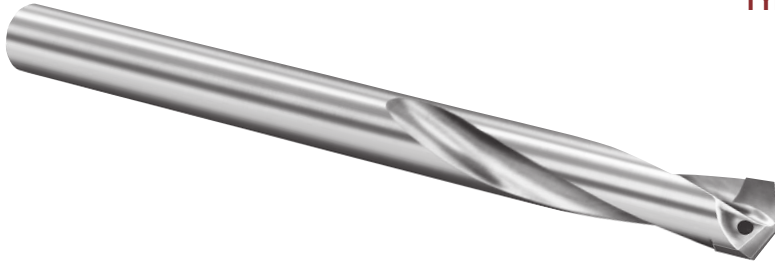
METRIC

TYPE 3654 - 125° 4 FACET POINT - STUB LENGTH

Carbide tip brazed to hardened tool steel bodies with polished right spiral flutes. Self centering point. Shank and body diameters are smaller than tool diameter. Two coolant holes. Heavy web with slow spiral for best rigidity and improved chip removal.

TYPE 3655 - 135° SPLIT POINT - STUB LENGTH

Same as Type 3654 above, except with 135° cam relieved split point.



DISCONTINUED - WHILE SUPPLIES LAST

Tool and shank diameter tolerances: +.000"/-.001".

TOOL DIAMETER		FLUTE LENGTH		SHANK & BODY DIAM.		OVERALL LENGTH		125° 4 FACET POINT		135° SPLIT POINT	
mm	INCH	mm	INCH	mm	INCH	mm	INCH	TYPE 3654 EDP NO.	PRICE EACH	TYPE 3655 EDP NO.	PRICE EACH
6.5	.2559	39	1 17/32	6.0	.2362	100	3 15/16	3654065	\$268.80	3655065	\$315.10
7.0	.2756	40	1 19/32	6.5	.2559	102	4	3654070	285.25	3655070	328.45
7.5	.2953	40	1 19/32	7.0	.2756	102	4	3654075	285.25	3655075	328.45
8.0	.3150	44	1 3/4	7.5	.2953	106	4 5/32	3654080	285.25	3655080	328.45
8.5	.3346	49	1 15/16	8.0	.3150	110	4 11/32	3654085	285.25	3655085	341.65
9.0	.3543	49	1 15/16	8.5	.3346	110	4 11/32	3654090	285.25	3655090	341.65
9.5	.3740	54	2 1/8	9.0	.3543	115	4 17/32	3654095	285.25	3655095	341.65
10.0	.3937	58	2 9/32	9.5	.3740	119	4 11/16	3654100	285.25	3655100	361.60
10.5	.4134	58	2 9/32	10.0	.3937	119	4 11/16	3654105	285.25	3655105	361.60
11.0	.4331	64	2 1/2	10.5	.4134	125	4 29/32	3654110	285.25	3655110	361.60
11.5	.4528	67	2 21/32	11.0	.4331	129	5 1/16	3654115	301.75	3655115	361.60
12.0	.4724	67	2 21/32	11.5	.4528	129	5 1/16	3654120	301.75	3655120	361.60
12.5	.4921	71	2 13/16	12.0	.4724	133	5 7/32	3654125	308.45	3655125	361.60
13.0	.5118	76	3	12.5	.4921	137	5 13/32	3654130	305.00	3655130	361.60
13.5	.5315	76	3	13.0	.5118	137	5 13/32	3654135	305.00	3655135	361.60
14.0	.5512	79	3 1/8	13.5	.5315	140	5 17/32	3654140	305.00	3655140	361.60
14.5	.5709	83	3 9/32	14.0	.5512	144	5 11/16	3654145	328.45	3655145	378.00
15.0	.5906	83	3 9/32	14.5	.5709	144	5 11/16	3654150	328.45	3655150	378.00
15.5	.6102	87	3 7/16	15.0	.5906	148	5 27/32	3654155	328.45	3655155	378.00
16.0	.6299	87	3 7/16	15.5	.6102	148	5 27/32	3654160	328.45	3655160	378.00
16.5	.6496	93	3 21/32	16.0	.6299	154	6 1/16	3654165	328.45	3655165	378.00
17.0	.6693	93	3 21/32	16.5	.6496	154	6 1/16	3654170	328.45	3655170	378.00
17.5	.6890	97	3 13/16	17.0	.6693	158	6 7/32	3654175	328.45	3655175	418.00
18.0	.7087	100	3 15/16	17.5	.6890	161	6 11/32	3654180	365.00	3655180	418.00
18.5	.7283	100	3 15/16	18.0	.7087	161	6 11/32	3654185	365.00	3655185	418.00
19.0	.7480	105	4 1/8	18.5	.7283	166	6 17/32	3654190	365.00	3655190	418.00
19.5	.7677	109	4 9/32	19.0	.7480	172	6 25/32	3654195	365.00	3655195	418.00
20.0	.7874	109	4 9/32	19.5	.7677	172	6 25/32	3654200	365.00	3655200	484.25
20.5	.8071	113	4 7/16	20.0	.7874	176	6 15/16	3654205	434.55	3655205	484.25
21.0	.8268	117	4 19/32	20.5	.8071	180	7 3/32	3654210	434.55	3655210	484.25
21.5	.8465	117	4 19/32	21.0	.8268	180	7 3/32	3654215	434.55	3655215	484.25
22.0	.8661	119	4 11/16	21.5	.8465	183	7 3/16	3654220	434.55	3655220	484.25
22.5	.8858	124	4 7/8	22.0	.8661	187	7 3/8	3654225	460.90	3655225	514.15
23.0	.9055	124	4 7/8	22.5	.8858	187	7 3/8	3654230	460.90	3655230	514.15
23.5	.9252	128	5 1/32	23.0	.9055	191	7 17/32	3654235	460.90	3655235	514.15
24.0	.9449	132	5 3/16	23.5	.9252	195	7 11/16	3654240	487.55	3655240	540.60
24.5	.9646	132	5 3/16	24.0	.9449	195	7 11/16	3654245	487.55	3655245	540.60
25.0	.9843	135	5 3/16	24.5	.9646	198	7 13/16	3654250	487.55	3655250	540.60
26.0	1.0236	144	5 11/16	25.5	1.0039	208	8 3/16	3654260	523.90	3655260	577.25

CARBIDE TIPPED CORE DRILLS FOR NON-FERROUS & CAST IRON

TYPE 3620 - FOUR SPIRAL FLUTES - STRAIGHT SHANK

TYPE 3622 - FOUR SPIRAL FLUTES - TAPER SHANK

Carbide tips brazed to hardened tool steel bodies. Right spiral flutes with 118° included chamfer angle.

Core drills, with increased flute capacity, remove more material from a cored or cast hole than a reamer. This often eliminates a final reaming or boring operation. Types 3620 and 3622 core drills are specifically designed for cast iron, non-ferrous and high temperature alloy applications. For steel applications, refer to Types 3621 and 3623 on pages 148 & 149.



Tool and shank diameter tolerances: +.000"/-.001".

TOOL DIAMETER		MIN. CUT DIAM.	LENGTH			TYPE 3620		TYPE 3622		BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRACTIONAL		FLT	CARB	OAL	SHANK DIAM.	EDP NO.	MORSE TAPER	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
.3750	3/8*	.262	3 1/2	5/8	6 3/4	3/8	362012	1	362212	\$147.75	.3471 - .3780	\$201.75	\$174.60	\$165.65	\$161.35	\$156.60	\$153.15
.4062	13/32*	.284	3 5/8	5/8	7	13/32	362013	1	362213	147.75	.3781 - .4090	201.75	174.60	165.65	161.35	156.60	153.15
.4375	7/16*	.306	3 7/8	3/4	7 1/4	7/16	362014	1	362214	147.75	.4091 - .4410	201.75	174.60	165.65	161.35	156.60	153.15
.4688	15/32*	.328	4 1/8	3/4	7 1/2	15/32	362015	1	362215	147.75	.4411 - .4720	201.75	174.60	165.65	161.35	156.60	153.15
.5000	1/2	.350	4 3/8	3/4	8 1/4	1/2	362016	2	362216	147.75	.4721 - .5030	201.75	174.60	165.65	161.35	156.60	153.15
.5312	17/32	.372	4 3/8	3/4	8 1/4	17/32	362017	2	362217	148.35	.5031 - .5340	202.50	175.45	166.25	162.05	157.35	153.60
.5625	9/16	.394	4 3/8	3/4	8 1/4	9/16	362018	2	362218	148.35	.5341 - .5660	202.50	175.45	166.25	162.05	157.35	153.60
.5938	19/32	.416	4 3/8	3/4	8 1/4	19/32	362019	2	362219	155.80	.5661 - .5970	209.80	182.75	173.75	169.40	164.80	161.20
.6250	5/8	.438	4 3/8	3/4	8 1/4	5/8	362020	2	362220	155.80	.5971 - .6280	209.80	182.75	173.75	169.40	164.80	161.20
.6562	21/32	.459	4 3/8	3/4	8 1/4	21/32	362021	2	362221	157.55	.6281 - .6590	211.70	184.55	175.60	171.15	166.70	163.05
.6875	11/16	.481	4 3/8	7/8	8 1/4	11/16	362022	2	362222	159.05	.6591 - .6910	213.10	186.05	176.90	172.60	168.00	164.25
.7188	23/32	.503	4 3/8	7/8	8 1/4	23/32	362023	2	362223	159.05	.6911 - .7220	213.10	186.05	176.90	172.60	168.00	164.25
.7500	3/4	.525	4 3/8	7/8	8 1/4	3/4	362024	2	362224	159.05	.7221 - .7530	213.10	186.05	176.90	172.60	168.00	164.25
.7812	25/32	.547	4 3/8	7/8	8 1/4	25/32	362025	2	362225	162.45	.7531 - .7840	216.55	189.50	180.45	176.15	171.55	167.85
.8125	13/16	.569	4 7/8	7/8	9 1/2	13/16	362026	3	362226	167.00	.7841 - .8160	221.15	194.10	184.95	180.75	175.90	172.45
.8438	27/32	.591	4 7/8	7/8	9 1/2	27/32	362027	3	362227	175.90	.8161 - .8470	230.05	202.95	193.90	189.55	184.95	181.30
.8750	7/8	.612	4 7/8	7/8	9 1/2	7/8	362028	3	362228	175.90	.8471 - .8780	230.05	202.95	193.90	189.55	184.95	181.30
.9062	29/32	.634	4 7/8	7/8	9 1/2	29/32	362029	3	362229	177.05	.8781 - .9090	231.10	204.10	194.90	190.70	186.10	182.45
.9375	15/16	.656	4 7/8	7/8	9 1/2	15/16	362030	3	362230	177.05	.9091 - .9410	231.10	204.10	194.90	190.70	186.10	182.45
.9688	31/32	.678	4 7/8	7/8	9 1/2	31/32	362031	3	362231	183.75	.9411 - .9720	237.60	210.50	201.60	197.30	192.55	189.00
1.0000	1	.700	4 7/8	7/8	9 1/2	1	362032	3	362232	187.10	.9721 - 1.0030	241.15	214.10	204.90	200.65	196.00	192.40
1.0312	1 1/32	.722	4 7/8	7/8	9 1/2	1 1/32	362033	3	362233	188.65	1.0031 - 1.0340	242.60	215.45	206.55	202.15	197.60	193.90
1.0625	1 1/16	.744	4 7/8	7/8	9 1/2	1 1/16	362034	3	362234	191.25	1.0341 - 1.0660	245.35	218.20	209.20	204.80	200.15	196.55
1.0938	1 3/32	.766	4 7/8	1	10 1/2	1 3/32	362035	4	362235	222.75	1.0661 - 1.0970	276.70	249.75	240.70	236.40	231.70	228.05
1.1250	1 1/8	.787	4 7/8	1	10 1/2	1 1/8	362036	4	362236	222.75	1.0971 - 1.1280	276.70	249.75	240.70	236.40	231.70	228.05
1.1562	1 9/32	.809	4 7/8	1	10 1/2	1 9/32	362037	4	362237	243.20	1.1281 - 1.1590	297.15	270.20	261.15	256.85	252.20	248.50
1.1875	1 3/16	.831	4 7/8	1	10 1/2	1 3/16	362038	4	362238	250.25	1.1591 - 1.1905	304.20	277.30	268.10	263.85	259.30	255.65
1.2188	1 7/32	.853	4 7/8	1	10 1/2	1 7/32	362039	4	362239	251.15	1.1906 - 1.2220	305.20	278.10	269.10	264.75	260.05	256.45
1.2500	1 1/4	.875	4 7/8	1	10 1/2	1 1/4	362040	4	362240	252.20	1.2221 - 1.2530	306.20	279.15	270.10	265.75	261.15	257.45
1.2812	1 9/32	.897	4 7/8	1	10 1/2	1 9/32	362041	4	362241	270.20	1.2531 - 1.2840	324.25	297.10	288.15	283.70	279.15	275.40
1.3125	1 5/16	.919	4 7/8	1	10 1/2	1 5/16	362042	4	362242	277.70	1.2841 - 1.3150	331.80	304.70	295.55	291.35	286.65	282.90
1.3438	1 11/32	.940	4 7/8	1	10 1/2	1 11/32	362043	4	362243	283.50	1.3151 - 1.3470	337.55	310.50	301.40	297.10	292.55	288.75
1.3750	1 3/8	.962	4 7/8	1	10 1/2	1 3/8	362044	4	362244	290.45	1.3471 - 1.3780	344.40	317.40	308.30	304.00	299.40	295.65
1.4062	1 13/32	.984	4 7/8	1	10 1/2	1 13/32	362045	4	362245	297.00	1.3781 - 1.4090	351.05	324.10	314.90	310.60	306.00	302.30
1.4375	1 7/16	1.006	4 7/8	1	10 1/2	1 7/16	362046	4	362246	305.70	1.4091 - 1.4410	359.80	332.80	323.60	319.30	314.70	311.05
1.4688	1 15/32	1.025	4 7/8	1	10 1/2	1 15/32	362047	4	362247	314.80	1.4411 - 1.4720	368.75	341.70	332.80	328.45	323.70	320.15
1.5000	1 1/2	1.050	4 7/8	1	10 1/2	1 1/2	362048	4	362248	321.65	1.4721 - 1.5030	375.60	348.45	339.50	335.20	330.45	327.00

CARBIDE TIPPED CORE DRILLS FOR NON-FERROUS & CAST IRON

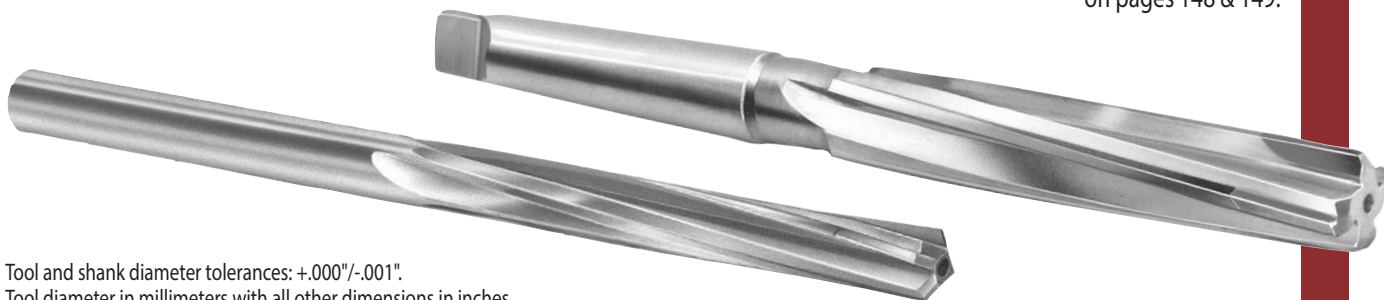
METRIC

TYPE 3620 - FOUR SPIRAL FLUTES - STRAIGHT SHANK

TYPE 3622 - FOUR SPIRAL FLUTES - TAPER SHANK

Carbide tips brazed to hardened tool steel bodies. Right spiral flutes with 118° included chamfer angle.

Core drills, with increased flute capacity, remove more material from a cored or cast hole than a reamer. This often eliminates a final reaming or boring operation. Types 3620 and 3622 core drills are specifically designed for cast iron, non-ferrous and high temperature alloy applications. For steel applications, refer to Types 3621 and 3623 on pages 148 & 149.



Tool and shank diameter tolerances: +.000"/-.001".

Tool diameter in millimeters with all other dimensions in inches.

TOOL DIAMETER		MIN. CUT DIAM.	LENGTH			TYPE 3620		TYPE 3622		BOTH TYPES PRICE	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH		FLT	CARB	OAL	SHANK DIAM.	EDP NO.	MORSE TAPER	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
9.0*	.3543	.262	3 1/2	5/8	6 3/4	3/8	3620090	1	3622090	\$165.60	8.815-9.601	\$206.25	\$179.35	\$170.15	\$165.80	\$161.35	\$157.50	\$152.30
10.0*	.3937	.284	3 3/8	5/8	7	13/32	3620100	1	3622100	165.60	9.602-10.389	206.25	179.35	170.15	165.80	161.35	157.50	152.30
11.0*	.4331	.306	3 7/8	3/4	7 1/4	7/16	3620110	1	3622110	165.60	10.390-11.201	206.25	179.35	170.15	165.80	161.35	157.50	152.30
-*	-	.328	4 1/8	3/4	7 1/2	15/32	3620119	1	3622119	-	11.202-11.989	206.25	179.35	170.15	165.80	161.35	157.50	152.30
12.0	.4724	.350	4 3/8	3/4	8 1/4	1/2	3620120	2	3622120	165.60	11.990-12.776	206.25	179.35	170.15	165.80	161.35	157.50	152.30
13.0	.5118	.372	4 3/8	3/4	8 1/4	17/32	3620130	2	3622130	166.25	12.777-13.564	206.90	180.05	170.95	166.65	162.05	158.30	153.15
14.0	.5512	.394	4 3/8	3/4	8 1/4	9/16	3620140	2	3622140	166.25	13.565-14.376	206.90	180.05	170.95	166.65	162.05	158.30	153.15
15.0	.5906	.416	4 3/8	3/4	8 1/4	19/32	3620150	2	3622150	173.75	14.377-15.164	214.40	187.40	178.35	173.90	169.40	165.65	160.45
-	-	.438	4 3/8	3/4	8 1/4	5/8	3620159	2	3622159	-	15.165-15.951	214.40	187.40	178.35	173.90	169.40	165.65	160.45
16.0	.6299	.459	4 3/8	3/4	8 1/4	21/32	3620160	2	3622160	175.65	15.952-16.739	216.30	189.25	180.20	175.75	171.15	167.40	162.35
17.0	.6693	.481	4 3/8	7/8	8 1/4	11/16	3620170	2	3622170	176.90	16.740-17.551	217.60	190.55	181.45	177.05	172.60	168.80	163.55
18.0	.7087	.503	4 3/8	7/8	8 1/4	23/32	3620180	2	3622180	176.90	17.552-18.339	217.60	190.55	181.45	177.05	172.60	168.80	163.55
19.0	.7480	.525	4 3/8	7/8	8 1/4	3/4	3620190	2	3622190	176.90	18.340-19.126	217.60	190.55	181.45	177.05	172.60	168.80	163.55
-	-	.547	4 3/8	7/8	8 1/4	25/32	3620199	2	3622199	-	19.127-19.914	221.15	194.25	185.20	180.75	176.15	172.45	167.15
20.0	.7874	.569	4 7/8	7/8	9 1/2	13/16	3620200	3	3622200	184.95	19.915-20.726	225.60	198.75	189.55	185.25	180.75	176.90	171.70
21.0	.8268	.591	4 7/8	7/8	9 1/2	27/32	3620210	3	3622210	193.90	20.727-21.514	234.65	207.65	198.60	194.25	189.55	185.95	180.75
22.0	.8661	.612	4 7/8	7/8	9 1/2	7/8	3620220	3	3622220	193.90	21.515-22.301	234.65	207.65	198.60	194.25	189.55	185.95	180.75
23.0	.9055	.634	4 7/8	7/8	9 1/2	29/32	3620230	3	3622230	194.95	22.302-23.089	235.70	208.70	199.75	195.15	190.70	187.05	181.80
-	-	.656	4 7/8	7/8	9 1/2	15/16	3620239	3	3622239	-	23.090-23.901	235.70	208.70	199.75	195.15	190.70	187.05	181.80
24.0	.9449	.678	4 7/8	7/8	9 1/2	31/32	3620240	3	3622240	201.60	23.902-24.689	242.20	215.25	206.20	201.75	197.30	193.40	188.25
25.0	.9843	.700	4 7/8	7/8	9 1/2	1	3620250	3	3622250	204.90	24.690-25.476	245.65	218.70	209.65	205.20	200.65	196.90	191.70
26.0	1.0236	.722	4 7/8	7/8	9 1/2	1 1/32	3620260	3	3622260	206.55	25.477-26.264	247.20	220.20	211.15	206.75	202.15	198.50	193.25
27.0	1.0630	.744	4 7/8	7/8	9 1/2	1 1/16	3620270	3	3622270	209.15	26.265-27.076	249.95	222.80	213.80	209.40	204.80	201.15	195.90
-	-	.766	4 7/8	1	10 1/2	1 3/32	3620279	4	3622279	-	27.077-27.864	281.30	254.30	245.35	240.85	236.40	232.55	227.50
28.0	1.1024	.787	4 7/8	1	10 1/2	1 1/8	3620280	4	3622280	240.65	27.865-28.651	281.30	254.30	245.35	240.85	236.40	232.55	227.50
29.0	1.1417	.809	4 7/8	1	10 1/2	1 5/32	3620290	4	3622290	261.15	28.652-29.439	301.75	274.85	265.75	261.40	256.85	252.95	247.75
30.0	1.1811	.831	4 7/8	1	10 1/2	1 3/16	3620300	4	3622300	268.10	29.440-30.239	308.80	281.85	272.95	268.30	263.85	260.05	254.95
31.0	1.2205	.853	4 7/8	1	10 1/2	1 7/32	3620310	4	3622310	269.15	30.240-31.039	309.75	282.75	273.80	269.25	264.75	260.90	255.80
-	-	.875	4 7/8	1	10 1/2	1 1/4	3620319	4	3622319	-	31.040-31.826	310.65	283.70	274.80	270.35	265.75	262.00	256.85
32.0	1.2598	.897	4 7/8	1	10 1/2	1 9/32	3620320	4	3622320	288.10	31.827-32.614	328.85	301.75	292.75	288.35	283.70	280.00	274.85
33.0	1.2992	.919	4 7/8	1	10 1/2	1 5/16	3620330	4	3622330	295.55	32.615-33.401	336.20	309.20	300.15	295.70	291.35	287.60	282.40
34.0	1.3386	.940	4 7/8	1	10 1/2	1 11/32	3620340	4	3622340	301.40	33.402-34.214	342.25	315.25	306.15	301.70	297.10	293.40	288.30
35.0	1.3780	.962	4 7/8	1	10 1/2	1 3/8	3620350	4	3622350	308.30	34.215-35.001	349.05	322.00	312.95	308.50	304.00	300.15	295.10
-	-	.984	4 7/8	1	10 1/2	1 13/32	3620359	4	3622359	-	35.002-35.789	355.60	328.75	319.50	315.25	310.60	306.90	301.70
36.0	1.4173	1.006	4 7/8	1	10 1/2	1 7/16	3620360	4	3622360	323.60	35.790-36.601	364.30	337.35	328.35	323.75	319.30	315.55	310.45
37.0	1.4567	1.025	4 7/8	1	10 1/2	1 15/32	3620370	4	3622370	332.80	36.602-37.389	373.35	346.45	337.35	332.95	328.45	324.60	319.40
38.0	1.4961	1.050	4 7/8	1	10 1/2	1 1/2	3620380	4	3622380	339.50	37.390-38.176	380.10	353.15	344.15	339.65	335.20	331.35	326.15

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*3 flutes.

CARBIDE TIPPED CORE DRILLS FOR STEEL

TYPE 3621 - FOUR SPIRAL FLUTES - STRAIGHT SHANK

TYPE 3623 - FOUR SPIRAL FLUTES - TAPER SHANK

Carbide tips brazed to hardened tool steel bodies. Right spiral flutes with 118° included chamfer angle.

Core drills, with increased flute capacity, remove more material from a cored or cast hole than a reamer. This often eliminates a final reaming or boring operation. Types 3621 and 3623 core drills are specifically designed for steel applications. For cast iron non-ferrous and high temperature alloy applications, refer to Types 3620 and 3622 on pages 146 and 147.



Tool and shank diameter tolerances: +.000"/-.001".

TOOL DIAMETER		MIN. CUT DIAM.	LENGTH			TYPE 3621		TYPE 3623		BOTH TYPES PRICE	DECIMAL SIZE RANGE	PRICE EACH - FINISHED TO DECIMAL SIZE					
DEC.	FRACTIONAL		FLT	CARB	OAL	SHANK DIAM.	EDP NO.	MORSE TAPER	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14**
.3750	3/8*	.262	3 1/2	5/8	6 3/4	3/8	362112	1	362312	\$162.70	.3471 - .3780	\$216.70	189.55	180.50	\$176.30	\$171.60	\$168.00
.4062	13/32*	.284	3 5/8	5/8	7	13/32	362113	1	362313	162.70	.3781 - .4090	216.70	189.55	180.50	176.30	171.60	168.00
.4375	7/16*	.306	3 7/8	3/4	7 1/4	7/16	362114	1	362314	162.70	.4091 - .4410	216.70	189.55	180.50	176.30	171.60	168.00
.4688	15/32*	.328	4 1/8	3/4	7 1/2	15/32	362115	1	362315	162.70	.4411 - .4720	216.70	189.55	180.50	176.30	171.60	168.00
.5000	1/2	.350	4 3/8	3/4	8 1/4	1/2	362116	2	362316	162.70	.4721 - .5030	216.70	189.55	180.50	176.30	171.60	168.00
.5312	17/32	.372	4 3/8	3/4	8 1/4	17/32	362117	2	362317	163.25	.5031 - .5340	217.25	190.25	181.10	176.85	172.15	168.55
.5625	9/16	.394	4 3/8	3/4	8 1/4	9/16	362118	2	362318	163.25	.5341 - .5660	217.25	190.25	181.10	176.85	172.15	168.55
.5938	19/32	.416	4 3/8	3/4	8 1/4	19/32	362119	2	362319	171.55	.5661 - .5970	225.50	198.50	189.35	185.20	180.45	176.85
.6250	5/8	.438	4 3/8	3/4	8 1/4	5/8	362120	2	362320	171.55	.5971 - .6280	225.50	198.50	189.35	185.20	180.45	176.85
.6562	21/32	.459	4 3/8	3/4	8 1/4	21/32	362121	2	362321	173.55	.6281 - .6590	227.50	200.30	191.25	187.05	182.35	178.65
.6875	11/16	.481	4 3/8	7/8	8 1/4	11/16	362122	2	362322	175.00	.6591 - .6910	228.95	201.80	192.85	188.50	183.95	180.20
.7188	23/32	.503	4 3/8	7/8	8 1/4	23/32	362123	2	362323	175.00	.6911 - .7220	228.95	201.80	192.85	188.50	183.95	180.20
.7500	3/4	.525	4 3/8	7/8	8 1/4	3/4	362124	2	362324	175.00	.7221 - .7530	228.95	201.80	192.85	188.50	183.95	180.20
.7812	25/32	.547	4 3/8	7/8	8 1/4	25/32	362125	2	362325	178.65	.7531 - .7840	232.65	205.75	196.55	192.25	187.55	184.05
.8125	13/16	.569	4 7/8	7/8	9 1/2	13/16	362126	3	362326	183.80	.7841 - .8160	237.75	210.80	201.65	197.45	192.75	189.10
.8438	27/32	.591	4 7/8	7/8	9 1/2	27/32	362127	3	362327	193.60	.8161 - .8470	247.60	220.60	211.50	207.20	202.65	198.90
.8750	7/8	.612	4 7/8	7/8	9 1/2	7/8	362128	3	362328	193.60	.8471 - .8780	247.60	220.60	211.50	207.20	202.65	198.90
.9062	29/32	.634	4 7/8	7/8	9 1/2	29/32	362129	3	362329	194.75	.8781 - .9090	248.80	221.85	212.70	208.40	203.80	200.05
.9375	15/16	.656	4 7/8	7/8	9 1/2	15/16	362130	3	362330	194.75	.9091 - .9410	248.80	221.85	212.70	208.40	203.80	200.05
.9688	31/32	.678	4 7/8	7/8	9 1/2	31/32	362131	3	362331	201.90	.9411 - .9720	255.95	228.95	219.85	215.45	211.00	207.35
1.0000	1	.700	4 7/8	7/8	9 1/2	1	362132	3	362332	205.85	.9721 - 1.0030	259.85	232.85	223.75	219.45	214.95	211.15
1.0312	1 1/32	.722	4 7/8	7/8	9 1/2	1 1/32	362133	3	362333	207.40	1.0031 - 1.0340	261.45	234.30	225.25	221.05	216.40	212.70
1.0625	1 1/16	.744	4 7/8	7/8	9 1/2	1 1/16	362134	3	362334	210.30	1.0341 - 1.0660	264.30	237.25	228.10	223.80	219.30	215.45
1.0938	1 3/32	.766	4 7/8	1	10 1/2	1 3/32	362135	4	362335	245.05	1.0661 - 1.0970	298.95	271.95	262.85	258.60	253.95	250.25
1.1250	1 1/8	.787	4 7/8	1	10 1/2	1 1/8	362136	4	362336	256.00	1.0971 - 1.1280	310.20	283.15	274.00	269.65	265.05	261.45
1.1562	1 5/32	.809	4 7/8	1	10 1/2	1 5/32	362137	4	362337	267.60	1.1281 - 1.1590	321.60	294.50	285.45	281.15	276.40	272.95
1.1875	1 3/16	.831	4 7/8	1	10 1/2	1 3/16	362138	4	362338	275.25	1.1591 - 1.1905	329.30	302.30	293.25	288.90	284.35	280.70
1.2188	1 7/32	.853	4 7/8	1	10 1/2	1 7/32	362139	4	362339	276.30	1.1906 - 1.2220	330.35	303.30	294.25	289.90	285.35	281.70
1.2500	1 1/4	.875	4 7/8	1	10 1/2	1 1/4	362140	4	362340	277.40	1.2221 - 1.2530	331.35	304.20	295.25	290.95	286.35	282.70
1.2812	1 9/32	.897	4 7/8	1	10 1/2	1 9/32	362141	4	362341	297.10	1.2531 - 1.2840	351.15	324.15	314.95	310.65	306.15	302.40
1.3125	1 5/16	.919	4 7/8	1	10 1/2	1 5/16	362142	4	362342	305.35	1.2841 - 1.3150	359.40	332.35	323.30	319.00	314.40	310.65
1.3438	1 11/32	.940	4 7/8	1	10 1/2	1 11/32	362143	4	362343	311.90	1.3151 - 1.3470	366.00	338.95	329.90	325.60	320.80	317.35
1.3750	1 3/8	.962	4 7/8	1	10 1/2	1 3/8	362144	4	362344	319.40	1.3471 - 1.3780	373.45	346.45	337.35	333.05	328.45	324.70
1.4062	1 13/32	.984	4 7/8	1	10 1/2	1 13/32	362145	4	362345	326.95	1.3781 - 1.4090	380.85	353.80	344.75	340.50	335.90	332.10
1.4375	1 7/16	1.006	4 7/8	1	10 1/2	1 7/16	362146	4	362346	336.40	1.4091 - 1.4410	390.45	363.25	354.20	349.90	345.40	341.65
1.4688	1 15/32	1.025	4 7/8	1	10 1/2	1 15/32	362147	4	362347	346.35	1.4411 - 1.4720	400.40	373.30	364.25	359.95	355.20	351.60
1.5000	1 1/2	1.050	4 7/8	1	10 1/2	1 1/2	362148	4	362348	353.65	1.4721 - 1.5030	407.70	380.65	371.60	367.30	362.80	359.10

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CARBIDE TIPPED CORE DRILLS FOR STEEL

METRIC

TYPE 3621 - FOUR SPIRAL FLUTES - STRAIGHT SHANK

TYPE 3623 - FOUR SPIRAL FLUTES - TAPER SHANK

Carbide tips brazed to hardened tool steel bodies. Right spiral flutes with 118° included chamfer angle.

Core drills, with increased flute capacity, remove more material from a cored or cast hole than a reamer. This often eliminates a final reaming or boring operation. Types 3621 and 3623 core drills are specifically designed for steel applications. For cast iron, non-ferrous and high temperature alloy applications, refer to Types 3620 and 3622 on pages 146 & 147.



Tool and shank diameter tolerances: +.000"/-.001"

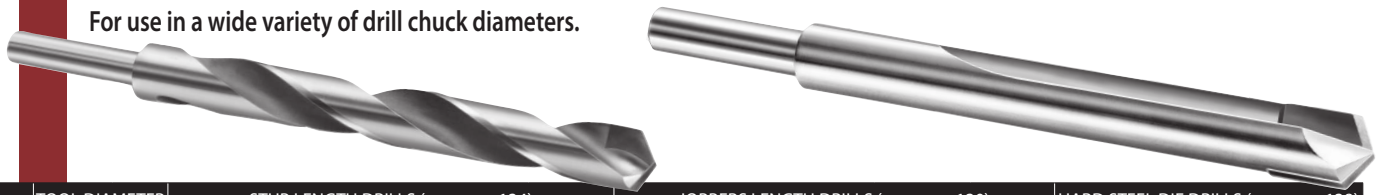
Tool diameter in millimeters with all other dimensions in inches.

TOOL DIAMETER		MIN. CUT DIAM.	LENGTH			TYPE 3621		TYPE 3623		BOTH TYPES PRICE	METRIC SIZE RANGE	PRICE EACH - FINISHED TO METRIC SIZE						
mm	INCH		FLT	CARB	OAL	SHANK DIAM.	EDP NO.	MORSE TAPER	EDP NO.			1 PC.	2 PC.	3 PC.	4 PC.	5-7	8-14	15+
9.0*	.3543	.262	3 1/2	5/8	6 3/4	3/8	3621090	1	3623090	\$180.55	8.815-9.601	\$221.20	\$194.30	\$185.25	\$180.80	\$176.30	\$172.55	\$167.25
10.0*	.3937	.284	3 5/8	5/8	7	13/32	3621100	1	3623100	180.55	9.602-10.389	221.20	194.30	185.25	180.80	176.30	172.55	167.25
11.0*	.4331	.306	3 7/8	3/4	7 1/4	7/16	3621110	1	3623110	180.55	10.390-11.201	221.20	194.30	185.25	180.80	176.30	172.55	167.25
-*	-	.328	4 1/8	3/4	7 1/2	15/32	3621119	1	3623119	-	11.202-11.989	221.20	194.30	185.25	180.80	176.30	172.55	167.25
12.0	.4724	.350	4 3/8	3/4	8 1/4	1/2	3621120	2	3623120	180.55	11.990-12.776	221.20	194.30	185.25	180.80	176.30	172.55	167.25
13.0	.5118	.372	4 3/8	3/4	8 1/4	17/32	3621130	2	3623130	181.10	12.777-13.564	221.85	194.75	185.65	181.30	176.85	172.90	167.85
14.0	.5512	.394	4 3/8	3/4	8 1/4	9/16	3621140	2	3623140	181.10	13.565-14.376	221.85	194.75	185.65	181.30	176.85	172.90	167.85
15.0	.5906	.416	4 3/8	3/4	8 1/4	19/32	3621150	2	3623150	189.35	14.377-15.164	230.05	203.05	194.10	189.55	185.20	181.30	176.15
-	-	.438	4 3/8	3/4	8 1/4	5/8	3621159	2	3623159	-	15.165-15.951	230.05	203.05	194.10	189.55	185.20	181.30	176.15
16.0	.6299	.459	4 3/8	3/4	8 1/4	21/32	3621160	2	3623160	191.25	15.952-16.739	231.95	204.90	195.90	191.45	187.05	183.20	178.00
17.0	.6693	.481	4 3/8	7/8	8 1/4	11/16	3621170	2	3623170	192.85	16.740-17.551	233.55	206.55	197.55	193.10	188.50	184.65	179.60
18.0	.7087	.503	4 3/8	7/8	8 1/4	23/32	3621180	2	3623180	192.85	17.552-18.339	233.55	206.55	197.55	193.10	188.50	184.65	179.60
19.0	.7480	.525	4 3/8	7/8	8 1/4	3/4	3621190	2	3623190	192.85	18.340-19.126	233.55	206.55	197.55	193.10	188.50	184.65	179.60
-	-	.547	4 3/8	7/8	8 1/4	25/32	3621199	2	3623199	-	19.127-19.914	237.25	210.25	201.35	196.75	192.25	188.50	183.35
20.0	.7874	.569	4 7/8	7/8	9 1/2	13/16	3621200	3	3623200	201.65	19.915-20.726	242.30	215.30	206.25	201.80	197.45	193.60	188.35
21.0	.8268	.591	4 7/8	7/8	9 1/2	27/32	3621210	3	3623210	211.45	20.727-21.514	252.20	225.20	216.15	211.70	207.20	203.45	198.30
22.0	.8661	.612	4 7/8	7/8	9 1/2	7/8	3621220	3	3623220	211.45	21.515-22.301	252.20	225.20	216.15	211.70	207.20	203.45	198.30
23.0	.9055	.634	4 7/8	7/8	9 1/2	29/32	3621230	3	3623230	212.75	22.302-23.089	253.40	226.50	217.30	213.00	208.40	204.65	199.45
-	-	.656	4 7/8	7/8	9 1/2	15/16	3621239	3	3623239	-	23.090-23.901	253.40	226.50	217.30	213.00	208.40	204.65	199.45
24.0	.9449	.678	4 7/8	7/8	9 1/2	31/32	3621240	3	3623240	219.80	23.902-24.689	260.60	233.65	224.65	220.05	215.45	211.80	206.65
25.0	.9843	.700	4 7/8	7/8	9 1/2	1	3621250	3	3623250	223.70	24.690-25.476	264.45	237.40	228.40	223.90	219.45	215.55	210.40
26.0	1.0236	.722	4 7/8	7/8	9 1/2	1 1/32	3621260	3	3623260	225.25	25.477-26.264	266.05	239.00	229.85	225.50	221.05	217.25	212.10
27.0	1.0630	.744	4 7/8	7/8	9 1/2	1 1/16	3621270	3	3623270	228.15	26.265-27.076	268.95	241.90	232.85	228.40	223.80	220.05	215.00
-	-	.766	4 7/8	1	10 1/2	1 3/32	3621279	4	3623279	-	27.077-27.864	303.60	276.55	267.60	263.05	258.60	254.70	249.65
28.0	1.1024	.787	4 7/8	1	10 1/2	1 1/8	3621280	4	3623280	274.05	27.865-28.651	314.70	287.75	278.70	274.35	269.65	266.05	260.75
29.0	1.1417	.809	4 7/8	1	10 1/2	1 5/32	3621290	4	3623290	285.45	28.652-29.439	326.05	299.15	290.05	285.65	281.15	277.40	272.20
30.0	1.1811	.831	4 7/8	1	10 1/2	1 3/16	3621300	4	3623300	293.25	29.440-30.239	333.95	307.00	298.00	293.50	288.90	285.15	280.00
31.0	1.2205	.853	4 7/8	1	10 1/2	1 7/32	3621310	4	3623310	294.30	30.240-31.039	334.90	308.05	298.85	294.50	289.90	286.30	281.00
-	-	.875	4 7/8	1	10 1/2	1 1/4	3621319	4	3623319	-	31.040-31.826	335.95	309.00	299.95	295.50	290.95	287.05	281.90
32.0	1.2598	.897	4 7/8	1	10 1/2	1 9/32	3621320	4	3623320	314.95	31.827-32.614	355.80	328.85	319.65	315.35	310.65	307.00	301.75
33.0	1.2992	.919	4 7/8	1	10 1/2	1 5/16	3621330	4	3623330	323.35	32.615-33.401	364.00	337.05	327.90	323.55	319.00	315.35	310.05
34.0	1.3386	.940	4 7/8	1	10 1/2	1 11/32	3621340	4	3623340	329.90	33.402-34.214	370.45	343.55	334.50	330.15	325.60	321.80	316.55
35.0	1.3780	.962	4 7/8	1	10 1/2	1 3/8	3621350	4	3623350	337.35	34.215-35.001	378.10	351.05	342.10	337.55	333.05	329.20	324.15
-	-	.984	4 7/8	1	10 1/2	1 13/32	3621359	4	3623359	-	35.002-35.789	385.40	358.40	349.45	344.90	340.50	336.65	331.45
36.0	1.4173	1.006	4 7/8	1	10 1/2	1 7/16	3621360	4	3623360	354.20	35.790-36.601	395.00	368.00	358.90	354.50	349.90	346.30	341.00
37.0	1.4567	1.025	4 7/8	1	10 1/2	1 15/32	3621370	4	3623370	364.20	36.602-37.389	404.80	377.95	368.75	364.45	359.95	356.20	351.00
38.0	1.4961	1.050	4 7/8	1	10 1/2	1 1/2	3621380	4	3623380	371.65	37.390-38.176	412.20	385.25	376.25	371.75	367.30	363.55	358.25

CARBIDE TIPPED REDUCED SHANK DIAMETER DRILLS

STUB LENGTH, JOBBERS LENGTH & HARD STEEL DIE DRILLS
1/4", 3/8", 1/2" OR 3/4" SHANK DIAMETER

For use in a wide variety of drill chuck diameters.



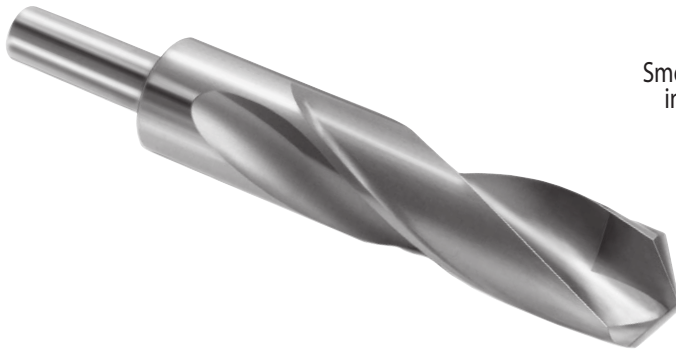
SHANK DIAM.	TOOL DIAMETER			STUB LENGTH DRILLS (see page 134)				JOBBER'S LENGTH DRILLS (see page 130)				HARD STEEL DIE DRILLS (see page 138)			
	DECIMAL	FRAC.	OVERALL LENGTH	118° PT.		135° PT.		OVERALL LENGTH	118° PT.		135° PT.		OVERALL LENGTH	NEG. 118° PT. TYPE 3670 EDP NO.	PRICE EACH
				TYPE 3640 EDP NO.	PRICE EACH	TYPE 3641 EDP NO.	PRICE EACH		TYPE 3600 EDP NO.	PRICE EACH	TYPE 3601 EDP NO.	PRICE EACH			
1/4"	.2812	9/32	2 1/16	3640618	\$53.85	3641618	\$62.50	4 1/4	3600618	\$53.25	3601618	\$61.75	-	-	-
	.3125	5/16	2 13/16	3640620	57.20	3641620	66.55	4 1/2	3600620	57.55	3601620	66.95	4 1/2	3670620	\$87.20
	.3438	11/32	3	3640622	66.60	3641622	77.10	4 3/4	3600622	61.15	3601622	71.25	4 3/4	3670622	92.90
	.3750	3/8	3 1/8	3640624	68.20	3641624	79.20	5	3600624	65.00	3601624	75.70	5	3670624	99.80
	.4062	13/32	3 5/16	3640626	80.90	3641626	94.15	5 1/4	3600626	70.75	3601626	82.30	5 1/4	3670626	117.00
	.4375	7/16	3 7/16	3640628	86.45	3641628	95.95	5 1/2	3600628	77.05	3601628	89.40	5 1/2	3670628	135.60
	.4688	15/32	3 5/8	3640630	123.05	3641630	143.15	5 3/4	3600630	86.60	3601630	100.30	5 3/4	3670630	148.95
	.5000	1/2	3 3/4	3640632	117.75	3641632	136.90	6	3600632	106.50	3601632	112.20	6	3670632	174.70
3/8"	.4062	13/32	3 5/16	3640726	80.90	3641726	94.15	5 1/4	3600726	70.75	3601726	82.30	-	-	-
	.4375	7/16	3 7/16	3640728	86.45	3641728	95.95	5 1/2	3600728	77.05	3601728	89.40	5 1/2	3670728	135.60
	.4688	15/32	3 5/8	3640730	123.05	3641730	143.15	5 3/4	3600730	86.60	3601730	100.30	5 3/4	3670730	148.95
	.5000	1/2	3 3/4	3640732	117.75	3641732	136.90	6	3600732	106.50	3601732	112.20	6	3670732	174.70
	.5312	17/32	3 7/8	3640734	146.85	3641734	165.40	6 5/8	3600734	138.70	3601734	161.10	6	3670734	200.40
	.5625	9/16	4	3640736	146.85	3641736	165.40	6 3/8	3600736	140.05	3601736	162.55	6	3670736	207.30
	.5938	19/32	4 1/8	3640738	168.40	3641738	189.85	7 1/8	3600738	150.35	3601738	174.40	7	3670738	219.40
	.6250	5/8	4 1/4	3640740	168.40	3641740	189.85	7 1/8	3600740	170.35	3601740	197.50	7	3670740	226.15
	.6562	21/32	4 1/2	3640742	202.50	3641742	228.40	7 1/8	3600742	173.10	3601742	200.85	7 1/2	3670742	241.90
	.6875	11/16	4 5/8	3640744	207.75	3641744	234.45	7 5/8	3600744	176.50	3601744	204.70	7 1/2	3670744	248.45
1/2"	.7188	23/32	4 3/4	3640746	235.60	3641746	273.60	7 5/8	3600746	208.30	3601746	231.65	8	3670746	260.30
	.7500	3/4	5	3640748	236.20	3641748	266.05	8	3600748	212.70	3601748	236.40	8	3670748	267.30
	.5312	17/32	3 7/8	3640834	146.85	3641834	165.40	6 5/8	3600834	138.70	3601834	161.10	-	-	-
	.5625	9/16	4	3640836	146.85	3641836	165.40	6 3/8	3600836	140.05	3601836	162.55	6	3670836	207.30
	.5938	19/32	4 1/8	3640838	168.40	3641838	189.85	7 1/8	3600838	150.35	3601838	174.40	7	3670838	219.40
	.6250	5/8	4 1/4	3640840	168.40	3641840	189.85	7 1/8	3600840	170.35	3601840	197.50	7	3670840	226.15
	.6562	21/32	4 1/2	3640842	202.50	3641842	228.40	7 1/8	3600842	173.10	3601842	200.85	7 1/2	3670842	241.90
	.6875	11/16	4 5/8	3640844	207.75	3641844	234.45	7 5/8	3600844	176.50	3601844	204.70	7 1/2	3670844	248.45
	.7188	23/32	4 3/4	3640846	235.60	3641846	273.60	7 5/8	3600846	208.30	3601846	231.65	8	3670846	260.30
	.7500	3/4	5	3640848	236.20	3641848	266.05	8	3600848	212.70	3601848	236.40	8	3670848	267.30
3/4"	.8125	13/16	5 1/4	3640852	291.80	3641852	329.45	-	-	-	-	-	8	3670852	479.30
	.8750	7/8	5 1/2	3640856	320.40	3641856	361.10	-	-	-	-	-	8	3670856	489.30
	.9375	15/16	5 3/4	3640860	343.90	3641860	387.90	-	-	-	-	-	8	3670860	545.25
	1.0000	1	6	3640864	363.30	3641864	409.90	-	-	-	-	-	8	3670864	578.40
	.8125	13/16	5 1/4	3640952	291.80	3641952	329.45	-	-	-	-	-	8	3670952	479.30
	.8750	7/8	5 1/2	3640956	320.40	3641956	361.10	-	-	-	-	-	8	3670956	489.30
	.9375	15/16	5 3/4	3640960	343.90	3641960	387.90	-	-	-	-	-	8	3670960	545.25
	1.0000	1	6	3640964	363.30	3641964	409.90	-	-	-	-	-	8	3670964	578.40
	1.0625	1 1/16	6 1/4	3640968	455.30	3641968	513.30	-	-	-	-	-	-	-	-
	1.1250	1 1/8	6 3/8	3640972	505.50	3641972	569.95	-	-	-	-	-	-	-	-
1.1875	1 3/16	6 5/8	3640976	616.80	3641976	691.50	-	-	-	-	-	-	-	-	
1.2500	1 1/4	6 3/4	3640980	616.80	3641980	691.50	-	-	-	-	-	-	-	-	

DRILL TOLERANCES & STANDARDS

DRILL DIAMETER RANGE (INCH)	DRILL DIAMETER TOLERANCES	SHANK DIAMETER TOLERANCES	INCLUDED ANGLE	LIP HEIGHT T.I.V.	ALL DIMENSIONAL & ELEMENT TOLERANCES CONFORM TO ONE OR MORE OF THE FOLLOWING STANDARDS, UNLESS OTHERWISE SPECIFIED ON SELECTED TYPES: • ASME/ANSI B94.11M • ISO - INTERNATIONAL STANDARDS ORGANIZATION • NAS 907 - NATIONAL AEROSPACE STANDARDS • USCTI - UNITED STATES CUTTING TOOL INSTITUTE
THRU 1/8"	+0.0000"/-0.0005"	-0.0000"/-0.0025"	+5°/-5°	.0020"	
OVER 1/8" THRU 1/4"	+0.0000"/-0.0007"	-0.0005"/-0.0030"	+5°/-5°	.0030"	
OVER 1/4" THRU 1/2"	+0.0000"/-0.0010"	-0.0005"/-0.0045"	+5°/-5°	.0040"	
OVER 1/2" THRU 1"	+0.0000"/-0.0012"	-0.0005"/-0.0030"	+3°/-3°	.0050"	
OVER 1" THRU 1 1/2"	+0.0000"/-0.0015"	-0.0005"/-0.0030"	+3°/-3°	.0060"	

CARBIDE TIPPED SILVER & DEMING DRILLS

TYPE 3616 - 118° POINT



Carbide tip brazed to hardened tool steel bodies.

Smooth flutes for effective chip flow. Precision ground to insure concentricity of tip & body. For drilling cast iron, non-ferrous metals and non-metals. Shank size of 1/2" x 2 1/4" allows larger diameter drills to be used in 1/2" and larger drill chucks. (Not usually recommended for steel.)

TYPE 3618 - 135° SPLIT POINT DISCONTINUED WHILE SUPPLIES LAST

Same as Type 3616 above, except designed for drilling abrasive and tough materials.

For drill tolerances, see page 150.

TOOL DIAMETER		LENGTH		118° POINT		135° POINT	
DECIMAL	FRAC.	FLUTE	OVERALL	TYPE 3616 EDP NO.	PRICE EACH	TYPE 3618 EDP NO.	PRICE EACH
.5000	1/2	3 1/8	6	361632	\$89.30	361832	\$93.85
.5312	17/32	3 1/8	6	361634	130.60	361834	137.25
.5625	9/16	3 1/8	6	361636	135.40	361836	142.20
.5938	19/32	3 1/8	6	361638	140.80	361838	147.85
.6250	5/8	3 1/8	6	361640	156.50	361840	164.20
.6562	21/32	3 1/8	6	361642	169.70	361842	178.10
.6875	11/16	3 1/8	6	361644	176.25	361844	185.20
.7188	23/32	3 1/8	6	361646	182.85	361846	192.00
.7500	3/4	3 1/8	6	361648	191.60	361848	201.35
.7812	25/32	3 1/8	6	361650	211.25	361850	221.85
.8125	13/16	3 1/8	6	361652	211.85	361852	222.45
.8438	27/32	3 1/8	6	361654	211.85	361854	222.45
.8750	7/8	3 1/8	6	361656	220.35	361856	231.35

TOOL DIAMETER		LENGTH		118° POINT		135° POINT	
DECIMAL	FRAC.	FLUTE	OVERALL	TYPE 3616 EDP NO.	PRICE EACH	TYPE 3618 EDP NO.	PRICE EACH
.9062	29/32	3 1/8	6	361658	\$225.60	361858	\$236.95
.9375	15/16	3 1/8	6	361660	227.90	361860	239.25
.9688	31/32	3 1/8	6	361662	235.60	361862	247.30
1.0000	1	3 1/8	6	361664	240.65	361864	252.75
1.0312	1 1/32	3 1/8	6	361666	232.25	361866	243.95
1.0625	1 1/16	3 1/8	6	361668	251.90	361868	264.45
1.0938	1 3/32	3 1/8	6	361670	257.90	361870	270.80
1.1250	1 1/8	3 1/8	6	361672	263.00	361872	276.00
1.1562	1 5/32	3 1/8	6	361674	319.10	361874	335.15
1.1875	1 3/16	3 1/8	6	361676	324.90	361876	341.20
1.2188	1 7/32	3 1/8	6	361678	341.10	361878	358.35
1.2500	1 1/4	3 1/8	6	361680	311.45	361880	327.10
-	-	-	-	-	-	-	-

CARBIDE TIPPED CNC SPOTTING/CENTERING DRILLS

DISCONTINUED - WHILE SUPPLIES LAST



TYPE 3677 - REGULAR LENGTH - 90° POINT

TYPE 3678 - REGULAR LENGTH - 120° POINT

TYPE 3679 - REGULAR LENGTH - 140° POINT

Carbide tip brazed to hardened tool steel bodies.

Cuts only to depth of point. Excellent for CNC spot facing, centering and chamfering. Tool diameter not cleared for drilling holes.

TYPE 3647 - SHORT LENGTH - 90° POINT

TYPE 3648 - SHORT LENGTH - 120° POINT

TYPE 3649 - SHORT LENGTH - 140° POINT

Same as Types 3677, 3678 & 3679 above, except shorter length.

While Supplies Last.

REGULAR LENGTH

TOOL DIAMETER		LENGTH		90° POINT	120° POINT	140° POINT	ALL TYPES
DECIMAL	FRAC.	FLUTE	OVERALL	TYPE 3677 EDP NO.	TYPE 3678 EDP NO.	TYPE 3679 EDP NO.	PRICE
.2500	1/4	1	4	367716	367816	367916	\$126.35
.3750	3/8	1 1/8	5	367724	367824	367924	147.50
.5000	1/2	1 1/2	6	367732	367832	367932	198.30
.6250	5/8	1 5/8	7	367740	367840	367940	287.20
.7500	3/4	1 7/8	8	367748	367848	367948	333.25
1.0000	1	2 1/4	8	367764	367864	367964	441.75

While Supplies Last.

SHORT LENGTH

TOOL DIAMETER		LENGTH		90° POINT	120° POINT	140° POINT	ALL TYPES
DECIMAL	FRAC.	FLUTE	OVERALL	TYPE 3647 EDP NO.	TYPE 3648 EDP NO.	TYPE 3649 EDP NO.	PRICE
.2500	1/4	1	2 1/2	364716	364816	364916	\$120.05
.3750	3/8	1 1/8	3 3/8	364724	364824	364924	140.10
.5000	1/2	1 1/2	3 3/4	364732	364832	364932	188.50
.6250	5/8	1 5/8	4 1/4	364740	364840	364940	272.90
.7500	3/4	1 7/8	5	364748	364848	364948	316.60
1.0000	1	2 1/4	6	364764	364864	364964	419.60

SINGLE POINT TOOLS WITH PREMIUM CARBIDE GRADE

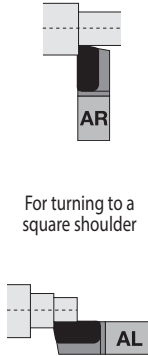
TYPE 3980 - SILVER SHANK 883 / PREMIUM C2 CARBIDE GRADE

Carbide tip brazed to steel bodies. For machining non-ferrous materials and cast iron.



0° SIDE CUTTING EDGE ANGLE
For machining to a square shoulder.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
AR-4	398AR04	\$16.00	393AR04	\$11.70	¼	¼	2	12
AR-5	398AR05	14.10	393AR05	12.45	⅝	⅝	2 ¼	12
AR-6	398AR06	14.40	393AR06	12.65	⅜	⅜	2 ½	12
AR-7	398AR07	15.50	393AR07	13.75	⅞	⅞	3	12
AR-8	398AR08	13.30	393AR08	13.30	½	½	3 ½	12
AR-10	398AR10	19.75	393AR10	18.25	⅝	⅝	4	12
AR-12	398AR12	25.35	393AR12	22.70	¾	¾	4 ½	12
AR-16	398AR16	46.45	393AR16	45.30	1	1	7	6
AR-20	398AR20	CALL	393AR20	CALL	1 ¼	1 ¼	8	1
AR-44	398AR44	CALL	393AR44	CALL	½	1	7	12



TYPE 3930 - GOLD SHANK 370 / PREMIUM C5-C6 CARBIDE GRADE

Carbide tip brazed to steel bodies. For machining most steels.



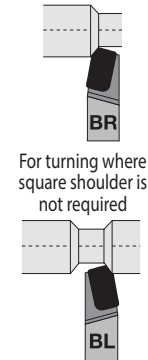
0° SIDE CUTTING EDGE ANGLE
For machining to a square shoulder.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
AL-4	398AL04	\$16.00	393AL04	\$11.70	¼	¼	2	12
AL-5	398AL05	14.10	393AL05	12.45	⅝	⅝	2 ¼	12
AL-6	398AL06	14.40	393AL06	12.65	⅜	⅜	2 ½	12
AL-7	398AL07	15.50	393AL07	13.75	⅞	⅞	3	12
AL-8	398AL08	13.30	393AL08	13.30	½	½	3 ½	12
AL-10	398AL10	18.70	393AL10	18.25	⅝	⅝	4	12
AL-12	398AL12	24.15	393AL12	23.95	¾	¾	4 ½	12
AL-16	398AL16	47.10	393AL16	47.10	1	1	7	6
AL-20	-	-	393AL20	CALL	1 ¼	1 ¼	8	1
AL-44	398AL44	CALL	393AL44	CALL	½	1	7	12



15° SIDE CUTTING EDGE ANGLE
For interrupted or irregular cuts.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
BR-4	398BR04	\$16.00	393BR04	\$11.70	¼	¼	2	12
BR-5	398BR05	14.10	393BR05	12.45	⅝	⅝	2 ¼	12
BR-6	398BR06	14.40	393BR06	12.65	⅜	⅜	2 ½	12
BR-7	398BR07	15.50	393BR07	13.75	⅞	⅞	3	12
BR-8	398BR08	13.30	393BR08	13.30	½	½	3 ½	12
BR-10	398BR10	19.75	393BR10	18.25	⅝	⅝	4	12
BR-12	398BR12	25.35	393BR12	22.70	¾	¾	4 ½	12
BR-16	398BR16	46.45	393BR16	45.30	1	1	7	6
BR-20	398BR20	CALL	393BR20	CALL	1 ¼	1 ¼	8	1
BR-44	398BR44	CALL	393BR44	CALL	½	1	7	12



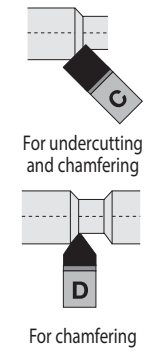
15° SIDE CUTTING EDGE ANGLE
For interrupted or irregular cuts.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
BL-4	398BL04	\$16.00	393BL04	\$11.70	¼	¼	2	12
BL-5	398BL05	14.10	393BL05	12.45	⅝	⅝	2 ¼	12
BL-6	398BL06	14.40	393BL06	12.65	⅜	⅜	2 ½	12
BL-7	398BL07	15.50	393BL07	13.75	⅞	⅞	3	12
BL-8	398BL08	13.30	393BL08	13.30	½	½	3 ½	12
BL-10	398BL10	18.70	393BL10	18.25	⅝	⅝	4	12
BL-12	398BL12	24.15	393BL12	23.95	¾	¾	4 ½	12
BL-16	398BL16	47.10	393BL16	47.10	1	1	7	6
BL-20	398BL20	CALL	393BL20	CALL	1 ¼	1 ¼	8	1
BL-44	398BL44	CALL	393BL44	CALL	½	1	7	12



0° SQUARE NOSE
No nose radius.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
C-4	398C04	\$10.55	393C04	\$10.55	¼	¼	2	12
C-5	398C05	11.65	393C05	11.20	⅝	⅝	2 ¼	12
C-6	398C06	15.05	393C06	12.45	⅜	⅜	2 ½	12
C-7	398C07	11.50	393C07	15.85	⅞	⅞	3	12
C-8	398C08	18.50	393C08	17.10	½	½	3 ½	12
C-10	398C10	20.80	393C10	22.70	⅝	⅝	4	12
C-12	398C12	28.70	393C12	32.55	¾	¾	4 ½	12
C-16	398C16	59.55	393C16	57.20	1	1	7	6
C-20	398C20	CALL	393C20	CALL	1 ¼	1 ¼	8	1
C-44	398C44	CALL	393C44	CALL	½	1	7	12



40° SIDE CUTTING EDGE ANGLE
80° pointed nose.

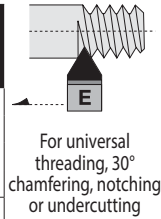
TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
D-4	398D04	\$9.85	393D04	\$9.85	¼	¼	2	12
D-5	398D05	11.35	393D05	11.70	⅝	⅝	2 ¼	12
D-6	398D06	11.65	393D06	12.50	⅜	⅜	2 ½	12
D-7	398D07	15.85	393D07	19.30	⅞	⅞	3	12
D-8	398D08	15.30	393D08	16.15	½	½	3 ½	12
D-10	398D10	21.35	393D10	23.65	⅝	⅝	4	12
D-12	398D12	30.50	393D12	26.80	¾	¾	4 ½	12
D-16	398D16	45.35	393D16	46.80	1	1	7	6

SINGLE POINT TOOLS WITH PREMIUM CARBIDE GRADE

TYPE 3980 - SILVER SHANK 883 / PREMIUM C2 CARBIDE GRADE

Carbide tip brazed to steel bodies. For machining non-ferrous materials and cast iron.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
E-4	398E04	\$9.85	393E04	\$9.85	¼	¼	2	12
E-5	398E05	10.70	393E05	10.70	⅝	⅝	2 ¼	12
E-6	398E06	11.15	393E06	10.85	⅜	⅜	2 ½	12
E-7	398E07	17.25	393E07	20.70	⅞	⅞	3	12
E-8	398E08	25.55	393E08	13.70	½	½	3 ½	12
E-10	398E10	21.20	393E10	19.20	⅝	⅝	4	12
E-12	398E12	26.35	393E12	26.65	¾	¾	4 ½	12
E-16	398E16	46.15	393E16	44.40	1	1	7	6

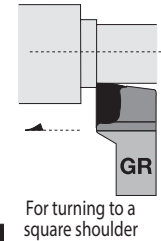


60° INCLUDED ANGLE
30° SIDE CUTTING EDGE ANGLE
For threading, chamfering, notching, or undercutting.



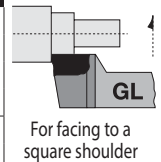
0° SIDE CUTTING EDGE ANGLE
Offset for facing or turning to a square shoulder or close to chuck jaws.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
GR-8	398GR08	\$18.50	393GR08	\$17.55	½	½	3 ½	12
GR-10	398GR10	27.75	393GR10	25.25	⅝	⅝	4	12
GR-12	398GR12	35.60	393GR12	31.50	¾	¾	4 ½	6
GR-16	398GR16	75.05	393GR16	75.55	1	1	7	4
GR-20	398GR20	CALL	393GR20	CALL	1 ¼	1 ¼	8	1
GR-44	398GR44	CALL	393GR44	CALL	½	1	6	6



0° SIDE CUTTING EDGE ANGLE
Offset for facing or turning to a square shoulder or close to chuck jaws.

TOOL TYPE & SIZE NO.	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION			STD. PKG. QTY.
	EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L	
GL-8	398GL08	\$18.35	393GL08	\$18.05	½	½	3 ½	12
GL-10	398GL10	26.55	393GL10	25.25	⅝	⅝	4	12
GL-12	398GL12	34.35	393GL12	33.85	¾	¾	4 ½	6
GL-16	398GL16	72.80	393GL16	75.55	1	1	7	4
GL-20	398GL20	CALL	393GL20	CALL	1 ¼	1 ¼	8	1
GL-44	398GL44	CALL	393GL44	CALL	½	1	6	6



Carbide tip brazed to steel bodies. For machining non-ferrous materials and cast iron.



STANDARD CUTOFF TOOLS
For stock cut off and grooving solid bars.

Standard package quantity is 6.

TOOL TYPE & SIZE NO.	CUT OFF WIDTH	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION		
		EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L
CT-111	⅝	398CT01	\$23.75	393CT01	\$24.70	½	1	5
CT-122	⅜	398CT02	24.45	393CT02	25.20	½	1	5
CT-121	¼	398CT03	25.25	393CT03	26.15	½	1	5
CT-120	⅝	398CT04	25.20	393CT04	26.15	½	1	5
CT-130	⅜	398CT13	30.50	393CT13	32.45	⅝	1 ¼	5
CT-140	⅜	398CT14	33.80	393CT14	35.00	¾	1 ½	6

Carbide tip brazed to steel bodies. For machining most steels.



STANDARD CUTOFF TOOLS
For stock cut off and grooving solid bars.

Standard package quantity is 6.

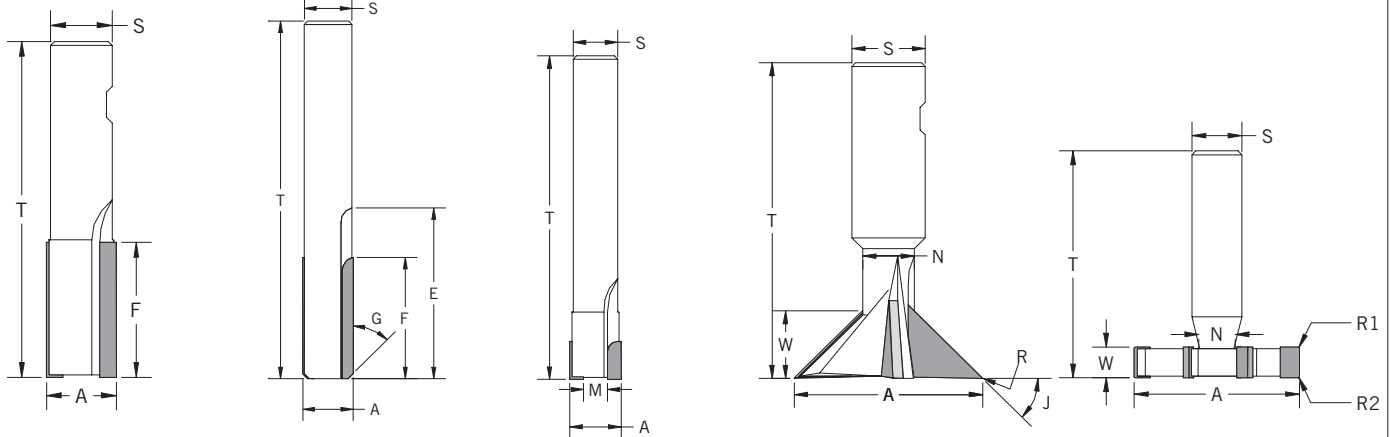
TOOL TYPE & SIZE NO.	CUT OFF WIDTH	883 / PREMIUM C2*		370 / PREMIUM C5-C6*		SHANK DIMENSION		
		EDP NO.	PRICE EACH	EDP NO.	PRICE EACH	W	H	L
CTL-111	⅝	398CL01	\$23.75	393CL01	\$24.70	½	1	5
CTL-122	⅜	398CL02	24.45	393CL02	25.20	½	1	5
CTL-121	¼	398CL03	25.25	393CL03	26.15	½	1	5
CTL-120	⅝	398CL04	25.20	393CL04	26.15	½	1	5
CTL-130	⅜	398CL13	30.50	393CL13	32.45	⅝	1 ¼	5
CTL-140	⅜	398CL14	33.80	393CL14	35.00	¾	1 ½	6

CARBIDE TIPPED SPECIALS QUOTE FORM - FAX TO 941-739-2827

LEXINGTON MANUFACTURES QUALITY SPECIALS TO MEET OUR CUSTOMERS' NEEDS.
 BELOW IS INFORMATION NEEDED TO QUOTE SPECIALS. Email: quotes@lexingtoncutter.com

Name _____ Phone _____
 Company _____ Fax _____
 Full Address _____
 Material Being Cut _____ Quantities _____

CARBIDE TIPPED - SHANK TYPE TOOLS



- END MILL REAMER COUNTERBORE DOVETAIL KEYSEAT

BODY OF TOOL

T= _____ Overall Length S= _____ Shank Diameter A= _____ Major Diameter

FLUTES

E= _____ Flute Length F= _____ Carbide Length G= _____ ° Chamfer Angle

- Straight Flutes Right Hand Cutting Left Hand Cutting
 Number of Flutes _____ Right Hand Spiral _____ ° Left Hand Spiral _____ °

IF PILOTED Head Diam. _____ Head Length _____ M= Min. Cutting Diam. _____

IF STEP REAMER (Also see pages 104-106) Minor Diam. _____ Step Length _____ Step Angle _____ °

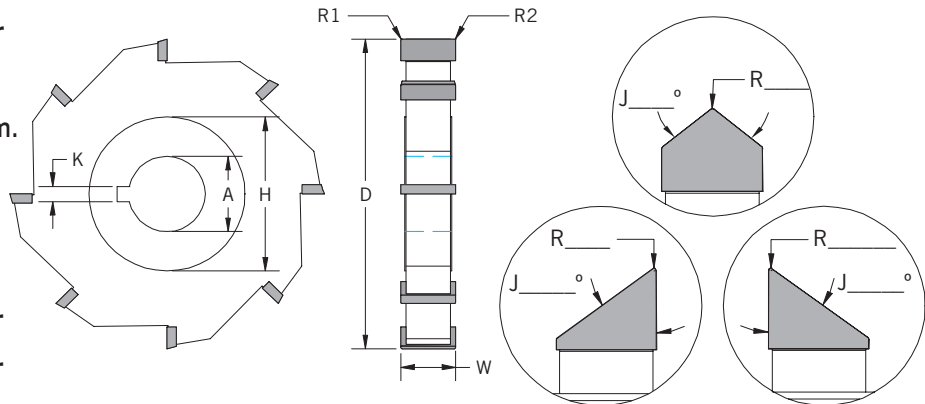
IF KEYSEAT W= _____ Width Straight Tooth R1= _____ Radius/Chamfer
 N= _____ Neck Diameter Staggered Tooth R2= _____ Radius/Chamfer

IF DOVETAIL

N= _____ Neck Diam. J= _____ ° Angle R= _____ Radius W= _____ Width

CARBIDE TIPPED - ARBOR TYPE TOOLS

- D= _____ Cutter Diameter
 W= _____ Cutter Width
 A= _____ Arbor Hole Diam.
 N= _____ # of Teeth
 H= _____ Hub Diameter
 K= _____ Keyway Size
 R1= _____ Radius/Chamfer
 R2= _____ Radius/Chamfer



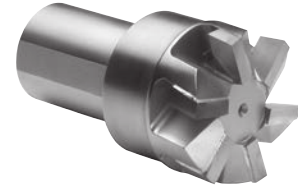
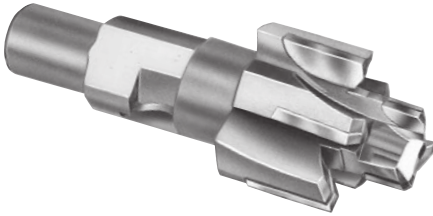
- Straight Tooth MILLING CUTTER
 Straight Stagger SLITTING SAW
 Herringbone Stagger ANGLE CUTTER
 (Fill in "J" & "R")

DESIGN AND MANUFACTURING OF SPECIAL CUTTING TOOLS



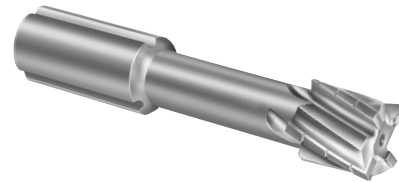
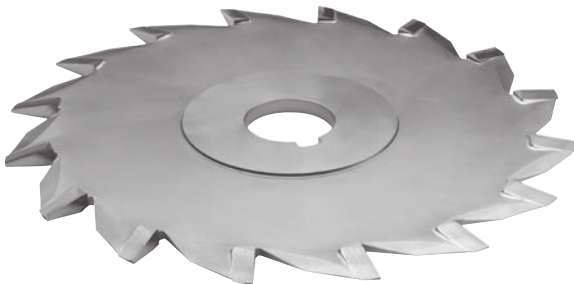
QUOTE FROM PRINT

Lexington Cutter will provide you with expedited quotes for specials from your tooling prints. Whether a complex blueprint or a simple sketch our staff will analyze your drawing and provide your quote typically within 1-2 business days.



QUOTE FROM DESCRIPTION

Many quotes for specials are supplied by description alone. These are normally standard tools with one or more non-standard features. Cutting diameter or width, shank diameter or length, chamfer or radii, arbor hole or locator pin, are just a few examples that can be accurately quoted by description.



QUOTE THROUGH DESIGN AND BUILD

Lexington Cutter's qualified staff can provide you with application support to recommend, design, and manufacture the right tool for your new or existing application. Provide us with a concept drawing of your new or existing application and we can work with you to develop or improve your current process. Often combination or step tools can be designed to eliminate steps and increase productivity. Our commitment to application specific tooling will place you a cut ahead of the competition.



ISO 9001:2008 REGISTERED FOR DESIGN AND DEVELOPMENT OF CUTTING TOOLS

Lexington Cutter is committed to continuous improvement in order to provide the necessary tools, equipment, and working environment to deliver high quality products that meet or exceed the expectations of our customers. Our factory houses over 100 machines tooled for the production of standard and specialty tooling. Lexington combines many well known manufacturing techniques such as Setup Reduction, Total Quality Management, Lean Production, Poka-Yoke, and Cellular Manufacturing into a production environment that thrives on high quality and continuous improvement.



INDEX BY TOOL TYPE NUMBER

The first 4 digits of the EDP number represent the Type of the tool. The remaining digits represent the size of the tool. Within each Type of tool are different sizes that have the same basic function and design. If you know the Type of the tool you are looking for, this table will take you to the page where you can find it. Types in this chart that are bold are new products for our main catalog.

TOOL TYPE	METRIC PAGE	FRAC. PAGE	TOOL TYPE	METRIC PAGE	FRAC. PAGE	TOOL TYPE	METRIC PAGE	FRAC. PAGE	TOOL TYPE	METRIC PAGE	FRAC. PAGE	TOOL TYPE	METRIC PAGE	FRAC. PAGE	TOOL TYPE	METRIC PAGE	FRAC. PAGE
END MILLS			REAMERS (CONT.)			REAMERS (CONT.)			COUNTERSINKS (CONT.)			60° ANGLE CUTTERS					
3300		31	3429h6	107	107	3483		99	3585		28	3724		27			
3302		32	3429EL		123	3483ST		126	3590		28	3726		27			
3304		32	3430	91	90	3483EL		122	3591		28	CHAMFER CUTTERS					
3305		32	3431		117	3484		99	DRILLS			3730		12			
3306		32	3432		100	3484ST		126	3600	131	130,150	3731		12			
3307		32	3433		101	3484EL		122	3601	131	130,150	3732		12			
3308		31	3434	111	110	3486		79	3610		140	3733		12			
3310		31	3434h6	104	104	3488		79	3611		140	DOVETAIL CUTTERS					
3312		29	3435	109	108	3490		115	3616		151	3734		13			
3314		29	3435h6	105	105	Semi Finished		69	3618		151	3735		13			
3318		29	3435EL		119	F & S Reamers		59	3620	147	146	3736		13			
3320		33	3436		100	COUNTERBORES			3621	149	148	3737		13			
3322		30	3437		101	3500		36	3622	147	146	CORNER ROUNDING					
3323		30	3438		100	3510	43	42	3623	149	148	3740		29			
3325		33	3439		101	3511	43	42	3630	133	132	3741		29			
3327		33	3440	91	90	3512	39	38	3631	133	132	DOUBLE ANGLE CUTTERS					
3337		30	3441		116	3513	37	37	3640	135	134,150	3746		12			
3350		31	3442		98	3514	39	38	3641	135	134,150	3747		12			
3353		30	3442ST		125	3515	37	37	3647		151	3748		12			
3355		30	3442EL		120	3516	41	40	3648		151	3749		12			
3375		33	3443		98	3518	41	40	3649		151	3750		27			
REAMERS			3443ST		125	3522		44	3650	143	142	3752		27			
3400	64	62-68	3443EL		120	F & S Counterbore		35	3652	143	142	3754		27			
3401		60	3444		98	SHELL MILLS			3654	145	144	PORT CONTOUR CUTTERS					
3402	71	70	3444ST		125	3530		27	3655	145	144	3780		34			
3407	93	92	3444EL		120	3531		27	3656		144	3781		34			
3408	93	92	3450	73	72-76	3532		27	3657		144	3786	34				
3409	93	92	3452	81	80	FACE MILLS			3658		141	3787	34				
3410	84	82	3453		97	3536		28	3660		136	SOLID CARBIDE					
3411		113	3454		97	3537		28	3661	137	136	3800		48, 50			
3411h6	106	106	3455		97	3538		28	3668		136	3801		48, 50			
3411EL		121	3457	95	94	MILLING CUTTERS			3670	137	138,150	3802		50			
3412		85	3457ST		124	3540		26	3671		138	3803		50			
3413		113	3457EL		118	3541		26	3672	137	138,150	3804	54	54-58			
3413h6	106	106	3458	95	94	3542		26	3673		138	3806		52			
3413EL		121	3458ST		124	3543		26	3674		139	3807		52			
3414	111	110	3458EL		118	3547		15	3675		139	3808		52			
3414h6	104	104	3459	95	94	SLITTING SAWS			3677		151	3809		52			
3415		113	3459ST		124	3550		16	3678		151	3810		49, 51			
3415h6	106	106	3459EL		118	3551		17	3679		151	3811		49, 51			
3415EL		121	3461		103	3552		16	3690		129	3812		51			
3416	109	108	3462		103	3553		17	3691		129	3813		51			
3416h6	105	105	3463		103	3554		16	3699		141	3816		53			
3416EL		119	3464		102	3556		17, 22-25	F & S Drills		127	3817		53			
3417		112	3465	87	86	3558		16	KEYSEAT CUTTERS			3820		49, 51			
3418		112	3466		102	3559		17-21	3700		8	3821		49, 51			
3419		112	3467	89	88	F & S Mills & Saws		14	3701		9	3822		51			
3420	84	83	3468		102	COUNTERSINKS			3702		10	3823		51			
3422		85	3472		96	3561		28	3703		11	3828		53			
3424	111	110	3473		96	3563		28	3704		7	3829		53			
3424h6	104	104	3474		96	COUNTERBORES			F & S Keyseats		6	3860		128			
3426	109	108	3476		61	3573		46	45° ANGLE CUTTERS			3893		139			
3426h6	105	105	3476 Set		61	3574		46	3714		27	SINGLE POINTS					
3426EL		119	3477		61	3575		47	3716		27	3930		152-153			
3427		114	3478		61	3576		47	RADIUS CUTTERS			3980		152-153			
3427h6	107	107	3479		61	3577		45	3718		12	Specials Quote Form 154					
3427EL		123	3480	77	78-79	3578		45	3719		12	Coating Guide 157					
3428		114	3481		116	COUNTERSINKS			T-SLOT CUTTERS								
3428h6	107	107	3482		99	3581		28	3720		13						
3428EL		123	3482ST		126	3583		28	3721		13						
3429		114	3482EL		122	3584		28									

COATINGS FOR LEXINGTON CARBIDE TIPPED TOOLS

TiN - TITANIUM NITRIDE	
TiN - Titanium Nitride coating is still the most popular coating and provides the highest adhesion and ductility characteristics of any coating we offer. Hard (81 Rc), smooth, and with high thermal stability (550° C) TiN is an excellent choice for general purpose drilling, reaming, counterboring and milling a wide variety of materials.	
TECHNICAL DATA	
Hardness (Vickers):	2300
Max. Service Temperature:	525° C (975° F)
Friction Coefficient:	.50
Thickness	2-4 microns
Surface Roughness (R _a μM):	.20

TiCN - TITANIUM CARBONITRIDE	
TiCN - Titanium Carbonitride has a higher hardness (87 Rc) than TiN and has greater lubricity. TiCN should be used in applications where tool temperature can be controlled due to the relatively low oxidation temperature (400° C). Excellent resistance to wear and edge build-up in drilling, reaming, and wet milling applications with non-ferrous materials and cast iron.	
TECHNICAL DATA	
Hardness (Vickers):	3000
Max. Service Temperature:	400° C (750° F)
Friction Coefficient:	.40
Thickness	2-4 microns
Surface Roughness (R _a μM):	.17

AlTiN - ALUM. TITANIUM NITRIDE	
AlTiN - Aluminum Titanium Nitride is an excellent choice when machining abrasive and high temperature applications over 800° C. It creates a hard aluminum oxide layer during the cutting process. Recommended for use when counterboring, drilling, milling, and reaming in all of our material classifications except Non-Ferrous.	
TECHNICAL DATA	
Hardness (Vickers):	3600
Max. Service Temperature:	750° C (1380° F)
Friction Coefficient:	.60
Thickness	2-4 microns
Surface Roughness (R _a μM):	.30

ZrN - ZIRCONIUM NITRIDE	
ZrN - Zirconium Nitride is an excellent choice when machining plastics and non-ferrous materials. Very reliable coating when moderate temperatures are generated at the cutting edge. This coating offers a higher service temperature than TiCN.	
TECHNICAL DATA	
Hardness (Vickers):	2500
Max. Service Temperature:	600° C (1110° F)
Friction Coefficient:	.50
Thickness	2-4 microns
Surface Roughness (R _a μM):	.20



COATING ADVANTAGES

- INCREASED TOOL LIFE
- GAINS IN PRODUCTIVITY
- IMPROVED FINISHES
- CONTROLLED TOLERANCES

AVAILABLE ON MOST TOOLS

WHY DO COATINGS WORK? COATINGS PROVIDE:

1. Thermal Insulation: - Coatings deflect heat back into the chip which reduces tool temperature & increases tool life.
2. Mechanical Strength - Coatings resist abrasion and protect the carbide tip from wear.
3. Chemical Resistance - Coatings protect and stabilize the carbide substrate under chemically reactive conditions.

MATERIAL CLASSIFICATION	DRILLING	REAMING	COUNTERBORING		MILLING	
	WET	WET	WET	DRY	WET	DRY
NON-FERROUS - SOFT	ZrN	TiCN/ZrN	ZrN	ZrN	ZrN	ZrN
NON-FERROUS - HARD	ZrN	TiCN/ZrN	ZrN	ZrN	ZrN	ZrN
CAST IRON	AlTiN	TiCN/AlTiN	AlTiN	AlTiN	AlTiN	AlTiN
LOW CARBON STEELS	AlTiN	AlTiN	AlTiN	AlTiN	AlTiN	AlTiN
MEDIUM STRENGTH STEELS	AlTiN	AlTiN	AlTiN	AlTiN	AlTiN	AlTiN
HIGH STRENGTH STEELS	AlTiN	AlTiN	AlTiN	AlTiN	AlTiN	AlTiN
HIGH TEMPERATURE ALLOYS	AlTiN	AlTiN	AlTiN	*	AlTiN	*

*High Temperature Alloys should not be machined dry.

The coatings in the table at left represent first choice recommendations. Only after a trial run can you be certain that a specific coating is best. Lexington Cutter, Inc. uses coating service companies that allow a low temperature Physical Vapor Deposition (PVD) process specially designed for carbide tipped tools. Tools that are coated by someone other than through Lexington Cutter, Inc. will not be warranted.

LIMITED WARRANTY

Lexington Cutter, Inc. reserves the right to make any changes on the specifications, prices, or tolerances without notice.

WARNING - Because cutting tools may shatter or break, government regulations require the use of safety glasses and other safety equipment at all times in the vicinity of cutting tool use. Grinding of solid carbide or carbide tipped tools will produce carbide and braze dust that may be hazardous to your health. Use adequate ventilation and read the applicable "Material Safety Data Sheets."

LIMITED WARRANTY: Lexington Cutter, Inc. does not give any warranty on its products except as follows: Lexington Cutter, Inc. warrants to original equipment manufacturers, distributors and industrial and commercial users of its products that each new product manufactured or supplied by Lexington Cutter, Inc. shall be free from defects in material and workmanship. Lexington Cutter, Inc.'s sole obligation under this warranty is limited to furnishing, without additional charge, a replacement for, or at its option, repairing or issuing credit for any such product which shall within one year from the date of sale by Lexington Cutter, Inc. be returned freight prepaid to Lexington Cutter, Inc. and which upon inspection is determined by Lexington Cutter, Inc. to be defective in materials or workmanship. The provisions of this warranty shall not apply to any product which has been subjected to misuse; improper operating conditions, machine setup or application of cutting fluid; or which has been repaired or altered if such repair or alteration in the judgment of Lexington Cutter, Inc. would adversely affect performance of the product. Complete written information with respect to all such matters, including operating condition, machine setup, cutting fluid, cutting speed and feed rate, must be furnished to Lexington Cutter, Inc. as a prerequisite to its consideration of any claim or complaint under this warranty.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Lexington Cutter, Inc. shall have no liability or responsibility on any claim of any kind, whether in contract, tort or otherwise, for any loss or damage arising out of, connected with, or resulting from the manufacture, sale, delivery or use of any product sold hereunder, in excess of the cost of replacement or repair provided herein. IN NO EVENT SHALL LEXINGTON CUTTER, INC. BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Lexington Cutter, Inc. makes no other warranty, expressed or implied, except the warranty against defects in material and workmanship set forth above; and Lexington Cutter, Inc. neither assumes nor authorizes any other person or entity to assume for it any other obligation or liability in connection with any of its products.



NO MINIMUM ORDER
95% OF TOOLS IN STOCK
METRICS STOCKED
SPECIALS QUOTED
SOLD THROUGH INDUSTRIAL DISTRIBUTORS
NO RESTOCKING CHARGE ON STANDARDS WITHIN ONE YEAR
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