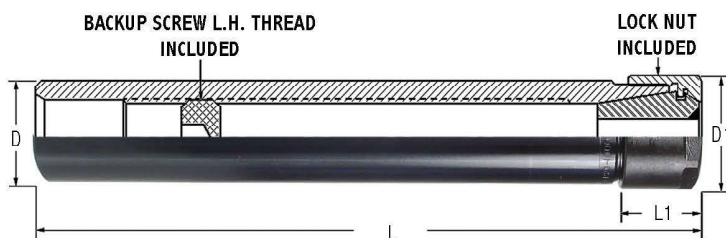


ER COLLET CHUCK EXTENSIONS

Inch & metric straight shanks | Extra-long lengths



FEATURES:

- Long lengths ideal for use on CNC Mills
- Smaller lock nuts create a low profile
- Tighten lock nuts with open-end wrenches
- Made from heat-treated alloy steel
- Black oxide finish for corrosion protection
- TIR 0.0003" or better

INCH SHANK

Chuck Part Number	Collet Series	D Shank Dia.	L Overall Length	Shank Length	L1 Lock Nut Length	D1 Lock Nut Dia.	Hex. Wrench Size	Max. Dia. Thru Shank	Chuck Capacity	Lock Nut Part Number	Wrench Part Number
PCH-ER11-0500	ER11	0.500"	6.65"	6.10"	0.47"	0.62"	9/16"	1/4"	.019-.276	LN-ER11	W-0562
PCH-ER11-0625	ER11	0.625"	6.65"	6.08"	0.47"	0.62"	9/16"	1/4"	.019-.276	LN-ER11	W-0562
PCH-ER11-0750	ER11	0.750"	6.65"	6.08"	0.47"	0.62"	9/16"	1/4"	.019-.276	LN-ER11	W-0562
PCH-ER16-0625	ER16	0.625"	7.00"	6.00"	0.68"	0.86"	13/16"	3/8"	.019-.394	LN-ER16	W-0812
PCH-ER16-0750	ER16	0.750"	7.00"	6.15"	0.68"	0.86"	13/16"	3/8"	.019-.394	LN-ER16	W-0812
PCH-ER16-1000	ER16	1.000"	7.15"	6.25"	0.68"	0.86"	13/16"	3/8"	.019-.394	LN-ER16	W-0812
PCH-ER20-1000	ER20	1.000"	7.10"	6.25"	0.78"	1.10"	1"	9/16"	.039-.512	LN-ER20	W-1000
PCH-ER25-1250	ER25	1.250"	7.25"	6.25"	0.84"	1.36"	1-1/4"	3/4"	.039-.630	LN-ER25	W-1250

NOTE: "ER" LOCK NUTS ARE INTERCHANGEABLE WITH "ER MINI LOCK NUTS" OF OTHER MANUFACTURERS

METRIC SHANK

Chuck Part Number	Collet Series	D Shank Dia.	L Overall Length	Shank Length	L1 Lock Nut Length	D1 Lock Nut Dia.	Hex. Wrench Size	Max. Dia. Thru Shank	Chuck Capacity	Lock Nut Part Number	Wrench Part Number
PCH-ER11-16MM	ER11	16MM	6.65"	6.08"	0.47"	0.62"	9/16"	1/4"	.019-.276	LN-ER11	W-0562
PCH-ER16-16MM	ER16	16MM	7.00"	6.00"	0.68"	0.86"	13/16"	3/8"	.019-.394	LN-ER16	W-0812
PCH-ER16-20MM	ER16	20MM	7.10"	6.25"	0.68"	0.86"	13/16"	3/8"	.019-.394	LN-ER16	W-0812
PCH-ER16-22MM	ER16	22MM	7.10"	6.25"	0.68"	0.86"	13/16"	3/8"	.019-.394	LN-ER16	W-0812
PCH-ER16-25MM	ER16	25MM	7.15"	6.25"	0.68"	0.86"	13/16"	3/8"	.019-.394	LN-ER16	W-0812
PCH-ER20-25MM	ER20	25MM	7.10"	6.25"	0.78"	1.10"	1"	9/16"	.039-.512	LN-ER20	W-1000
PCH-ER25-32MM	ER25	32MM	7.25"	6.25"	0.84"	1.36"	1-1/4"	3/4"	.039-.630	LN-ER25	W-1250

EXTRA-LONG COLLET CHUCKS

Chuck Part Number	Collet Series	Shank Dia.	Overall Length + Shank Description
PCH-ER11-0500S-8L*	ER11	0.500"	8" solid shank
PCH-ER11-0500S-9L*	ER11	0.500"	9" solid shank
PCH-ER11-0500S-10L*	ER11	0.500"	10" solid shank
PCH-ER16-0750S-10L*	ER16	0.750"	10" solid shank
PCH-ER16-0750S-12L*	ER16	0.750"	12" solid shank
PCH-ER16-0750S-14L*	ER16	0.750"	14" solid shank
PCH-ER20-1000S-10L*	ER20	1.000"	10" solid shank
PCH-ER20-1000CH-12L	ER20	1.000"	12" coolant hole
PCH-ER20-1000S-14L*	ER20	1.000"	14" solid shank
PCH-ER20-1000CH-16L	ER20	1.000"	16" coolant hole



**DO NOT OVER TIGHTEN LOCK NUT
ALWAYS USE BACKUP SCREW**

Up to 16" OAL

Solid shank chucks have no thru-hole, threading, or backup screw.
Chucks marked "coolant hole" have a thru-hole but no threading or backup screw.

*NOTE: All solid shank chucks phasing out and will be replaced with coolant hole style. Please call or email to check current availability.

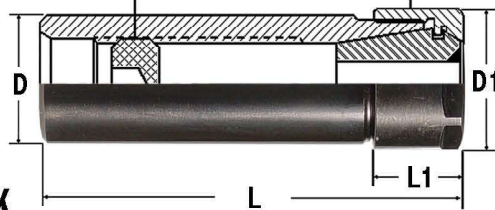


“STUBBY” ER COLLET CHUCKS

Inch & metric straight shanks

BACKUP SCREW L.H. THREAD
INCLUDED

LOCK NUT
INCLUDED



INCH SHANK

Chuck Part Number	Collet Series	D Shank Dia.	L Overall Length	Shank Length	L1 Lock Nut Length	D1 Lock Nut Dia.	Hex. Wrench Size	Max. Dia. Thru Shank	Chuck Capacity	Lock Nut Part Number	Wrench Part Number
SPH-ER11-0500	ER11	0.500"	3.50"	3.00"	0.47"	0.62"	9/16"	1/4"	.019-.276	LN-ER11	W-0562
SPH-ER11-0625	ER11	0.625"	3.50"	2.95"	0.47"	0.62"	9/16"	1/4"	.019-.276	LN-ER11	W-0562
SPH-ER11-0750	ER11	0.750"	3.50"	2.95"	0.47"	0.62"	9/16"	1/4"	.019-.276	LN-ER11	W-0562
SPH-ER16-0625	ER16	0.625"	3.70"	2.70"	0.68"	0.86"	13/16"	3/8"	.019-.394	LN-ER16	W-0812
SPH-ER16-0750	ER16	0.750"	3.70"	2.90"	0.68"	0.86"	13/16"	3/8"	.019-.394	LN-ER16	W-0812
SPH-ER16-1000	ER16	1.000"	3.70"	2.85"	0.68"	0.86"	13/16"	3/8"	.019-.394	LN-ER16	W-0812
SPH-ER20-0625	ER20	0.625"	3.75"	2.35"	0.78"	1.10"	1"	3/8"	.039-.512	LN-ER20	W-1000
SPH-ER20-0750	ER20	0.750"	3.75"	2.45"	0.78"	1.10"	1"	3/8"	.039-.512	LN-ER20	W-1000
SPH-ER20-1000	ER20	1.000"	3.75"	2.85"	0.78"	1.10"	1"	9/16"	.039-.512	LN-ER20	W-1000
SPH-ER25-1000	ER25	1.000"	6.05"	4.55"	0.84"	1.36"	1-1/4"	9/16"	.039-.630	LN-ER25	W-1250
SPH-ER25-1250	ER25	1.250"	6.05"	5.10"	0.84"	1.36"	1-1/4"	3/4"	.039-.630	LN-ER25	W-1250
SPH-ER32-1000	ER32	1.000"	6.10"	4.15"	0.95"	1.61"	1-1/2"	9/16"	.039-.787	LN-ER32	W-1500
SPH-ER32-1250	ER32	1.250"	6.10"	4.65"	0.95"	1.61"	1-1/2"	3/4"	.039-.787	LN-ER32	W-1500
SPH-ER32-1500	ER32	1.500"	6.10"	5.00"	0.95"	1.61"	1-1/2"	3/4"	.039-.787	LN-ER32	W-1500

METRIC SHANK

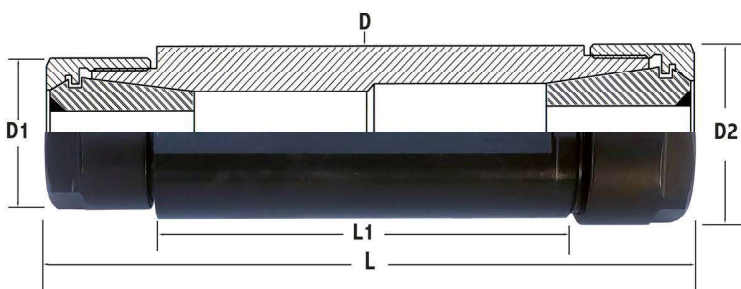
NOTE: “ER” LOCK NUTS ARE INTERCHANGEABLE WITH “ER MINI LOCK NUTS” OF OTHER MANUFACTURERS

Chuck Part Number	Collet Series	D Shank Dia.	L Overall Length	Shank Length	L1 Lock Nut Length	D1 Lock Nut Dia.	Hex. Wrench Size	Max. Dia. Thru Shank	Chuck Capacity	Lock Nut Part Number	Wrench Part Number
SPH-ER11-16MM	ER11	16MM	3.50"	3.00"	0.47"	0.62"	9/16"	1/4"	.019-.276	LN-ER11	W-0562
SPH-ER16-16MM	ER16	16MM	3.70"	2.70"	0.68"	0.86"	13/16"	3/8"	.019-.394	LN-ER16	W-0812
SPH-ER16-20MM	ER16	20MM	3.70"	2.85"	0.68"	0.86"	13/16"	3/8"	.019-.394	LN-ER16	W-0812
SPH-ER16-22MM	ER16	22MM	3.70"	2.85"	0.68"	0.86"	13/16"	3/8"	.019-.394	LN-ER16	W-0812
SPH-ER16-25MM	ER16	25MM	3.70"	2.85"	0.68"	0.86"	13/16"	3/8"	.019-.394	LN-ER16	W-0812
SPH-ER20-16MM	ER20	16MM	3.75"	2.35"	0.78"	1.10"	1"	3/8"	.039-.512	LN-ER20	W-1000
SPH-ER20-20MM	ER20	20MM	3.75"	2.45"	0.78"	1.10"	1"	3/8"	.039-.512	LN-ER20	W-1000
SPH-ER20-22MM	ER20	22MM	3.75"	2.45"	0.78"	1.10"	1"	9/16"	.039-.512	LN-ER20	W-1000
SPH-ER20-25MM	ER20	25MM	3.75"	2.85"	0.78"	1.10"	1"	9/16"	.039-.512	LN-ER20	W-1000
SPH-ER25-25MM	ER25	25MM	6.05"	4.55"	0.84"	1.36"	1-1/4"	9/16"	.039-.630	LN-ER25	W-1250
SPH-ER25-32MM	ER25	32MM	6.05"	5.10"	0.84"	1.36"	1-1/4"	3/4"	.039-.630	LN-ER25	W-1250
SPH-ER32-25MM	ER32	25MM	6.10"	4.15"	0.95"	1.61"	1-1/2"	9/16"	.039-.787	LN-ER32	W-1500
SPH-ER32-32MM	ER32	32MM	6.10"	4.65"	0.95"	1.61"	1-1/2"	3/4"	.039-.787	LN-ER32	W-1500

DO NOT OVER TIGHTEN LOCK NUT - ALWAYS USE BACKUP SCREW

DOUBLE-ENDED ER COLLET CHUCKS

Inch & metric straight shanks



FEATURES:

- For use on Swiss-Type Screw Machines
- Dual collet system increases flexibility & efficiency
- Smaller lock nuts create a low profile
- Tighten lock nuts with open-end wrenches
- Made from heat-treated alloy steel
- Black oxide finish for corrosion protection
- TIR 0.0003" or better

INCH SHANK

Chuck Part Number	Collet Series	D Shank Dia.	L Overall Length	L1 Shank Length	D1/D2 Lock Nut Dia.
DE32-ER11/11-0750	ER11/ER11	0.750"	3.2"	2.00"	0.62/0.62
DE32-ER11/16-0750	ER11/ER16	0.750"	3.2"	1.88"	0.62/0.86
DE32-ER16/16-0750	ER16/ER16	0.750"	3.2"	1.75"	0.86/0.86
DE43-ER11/11-0625	ER11/ER11	0.625"	4.3"	3.25"	0.62/0.62
DE43-ER11/11-0750	ER11/ER11	0.750"	4.3"	3.25"	0.62/0.62
DE44-ER11/16-0750	ER11/ER16	0.750"	4.4"	3.12"	0.62/0.86
DE45-ER16/16-0750	ER16/ER16	0.750"	4.5"	2.90"	0.86/0.86
DE50-ER16/16-1000	ER16/ER16	1.000"	5.0"	3.40"	0.86/0.86
DE50-ER16/20-1000	ER16/ER20	1.000"	5.0"	3.40"	0.86/1.10
DE51-ER20/20-1000	ER20/ER20	1.000"	5.1"	3.40"	1.10/1.10
DE51-ER20/20-1250	ER20/ER20	1.250"	5.1"	3.40"	1.10/1.10
DE51-ER20/25-1250	ER20/ER25	1.250"	5.1"	3.30"	1.10/1.36
DE51-ER25/25-1250	ER25/ER25	1.250"	5.1"	3.25"	1.36/1.36

METRIC SHANK

Chuck Part Number	Collet Series	D Shank Dia.	L Overall Length	L1 Shank Length	D1/D2 Lock Nut Dia.
DE43-ER11/11-16MM	ER11/ER11	16MM	4.3"	3.25"	0.62/0.62
DE43-ER11/11-20MM	ER11/ER11	20MM	4.3"	3.25"	0.62/0.62
DE44-ER11/16-20MM	ER11/ER16	20MM	4.4"	3.10"	0.62/0.86
DE45-ER16/16-20MM	ER16/ER16	20MM	4.5"	2.90"	0.86/0.86
DE48-ER11/11-22MM	ER11/ER11	22MM	4.8"	3.75"	0.62/0.62
DE49-ER11/16-22MM	ER11/ER16	22MM	4.9"	3.60"	0.62/0.86
DE50-ER16/16-22MM	ER16/ER16	22MM	5.0"	3.40"	0.86/0.86
DE50-ER16/16-25MM	ER16/ER16	25MM	5.0"	3.40"	0.86/0.86
DE50-ER16/20-25MM	ER16/ER20	25MM	5.0"	3.40"	0.86/1.10
DE51-ER20/20-25MM	ER20/ER20	25MM	5.1"	3.40"	1.10/1.10
DE51-ER20/20-32MM	ER20/ER20	32MM	5.1"	3.40"	1.10/1.10
DE51-ER20/25-32MM	ER20/ER25	32MM	5.1"	3.30"	1.10/1.36
DE51-ER25/25-32MM	ER25/ER25	32MM	5.1"	3.25"	1.36/1.36

NOTE: "ER" LOCK NUTS ARE INTERCHANGEABLE WITH "ER MINI LOCK NUTS" OF OTHER MANUFACTURERS

see page 2 or 3 for additional dimensions

IMPORTANT ER COLLET INFORMATION

COLLET-LOCK NUT ASSEMBLY INSTRUCTIONS

Inserting Collet (see fig. 1):

Always insert the collet into the lock nut before mounting onto the collet chuck.

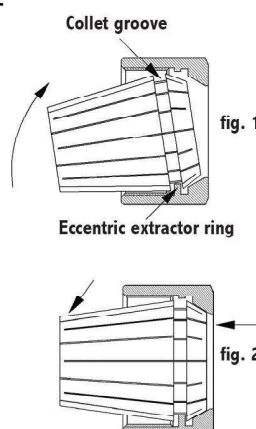
Insert groove of the collet into the eccentric extractor ring of the lock nut.

Push collet in the direction of the arrow. Insert tool. Screw lock nut with collet onto collet chuck.

Improper collet insertion can permanently destroy the concentricity of the collet and may result in a damaged lock nut.

Removing Collet (see fig. 2)

Press on the face of the collet while simultaneously pushing sideways on the back of the collet until it disengages from the lock nut.



Maximum Tightening Torque for ER Lock Nuts

Lock Nut	FT./LBS
LN-ER11	18
LN-ER16	21
LN-ER20	28
LN-ER25	32
LN-ER32	35

**DO NOT OVER TIGHTEN LOCK NUT
ALWAYS USE BACKUP SCREW**

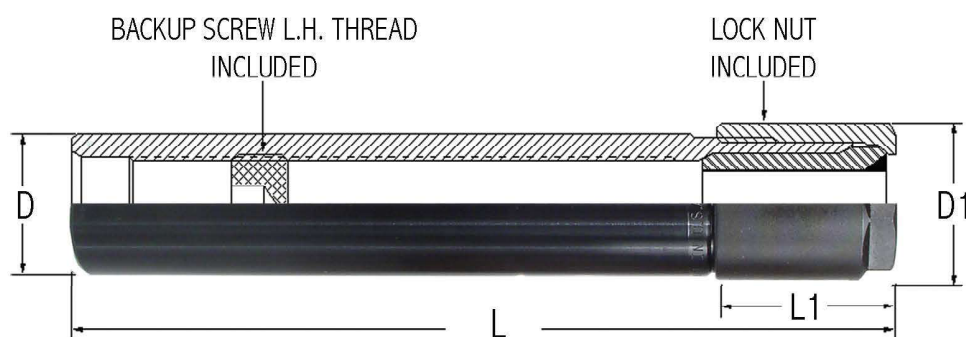
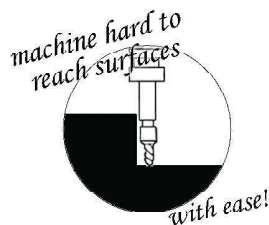
DOUBLE ANGLE (DA) COLLET CHUCKS

Straight shank extensions | Extra-long lengths



FEATURES:

- Long lengths ideal for use on CNC Mills
- Smaller lock nuts create a low profile
- Made from heat-treated alloy steel
- Black oxide finish for corrosion protection
- TIR 0.0003" or better



COLLET CHUCK EXTENSIONS

Chuck Part Number	Collet Series	D Shank Dia.	L Overall Length	Shank Length	L1 Lock Nut Length	D1 Lock Nut Dia.	Hex. Wrench Size	Max. Dia. Thru Shank	Chuck Capacity	Lock Nut Part Number	Wrench Part Number
TE300-0500	DA300	0.500"	6.80"	5.70"	1.00"	0.56"	1/2"	1/4"	3/64" to 1/4"	ENP-0500	W-0500
TE200-0750	DA200	0.750"	7.10"	5.65"	1.34"	0.81"	11/16"	3/8"	3/64" to 3/8"	ENP-0750	W-0687
TE100-1000	DA100	1.000"	7.30"	5.65"	1.54"	1.06"	7/8"	9/16"	3/64" to 9/16"	ENP-1000	W-0875
TE180-1250	DA180	1.250"	7.30"	5.55"	1.54"	1.43"	1-1/4"	3/4"	3/64" to 3/4"	ENP-1250	W-1250

EXTRA-LONG COLLET CHUCKS

Chuck Part Number	Collet Series	Shank Dia.	Overall Length + Shank Description
TE300-0500S-8L*	DA300	0.500"	8" solid shank
TE300-0500S-9L*	DA300	0.500"	9" solid shank
TE300-0500S-10L*	DA300	0.500"	10" solid shank
TE200-0750S-10L*	DA200	0.750"	10" solid shank
TE200-0750S-12L*	DA200	0.750"	12" solid shank
TE200-0750CH-14L	DA200	0.750"	14" coolant hole
TE100-1000S-10L*	DA100	1.000"	10" solid shank
TE100-1000CH-12L	DA100	1.000"	12" coolant hole
TE100-1000S-14L*	DA100	1.000"	14" solid shank
TE100-1000S-16L*	DA100	1.000"	16" solid shank
TE180-1250-10L	DA180	1.250"	10" w/backup screw

**DO NOT OVER TIGHTEN LOCK NUT
ALWAYS USE BACKUP SCREW**



Solid shank chucks have no thru-hole, threading, or backup screw. Chucks marked "coolant hole" have a thru-hole but no threading or backup screw.

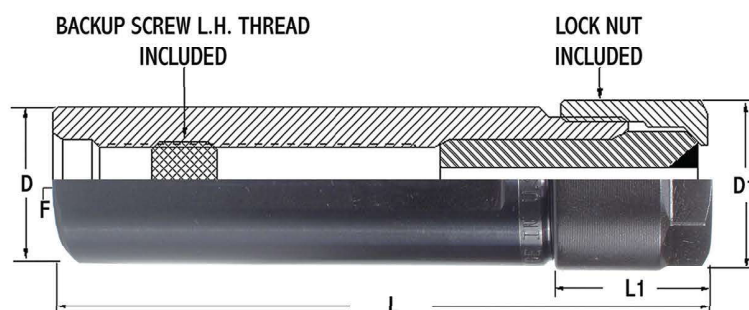
*NOTE: All solid shank chucks phasing out and will be replaced with coolant hole (no threading or backup screw). Please call or email to check current availability.

"STUBBY" DOUBLE ANGLE COLLET CHUCKS



FEATURES:

- "STUBBY" lengths ideal for use on Chuckers, Lathes, and Automatic Screw Machines
- Smaller lock nuts create a low profile
- Shorter length locknut useful on Automatic Screw Machines
- Made from heat-treated alloy steel
- Black oxide finish for corrosion protection
- TIR 0.0003" or better



Chuck Part Number	Collet Series	D Shank Dia.	L Overall Length	Shank Length	L1 Lock Nut Length	D1 Lock Nut Dia.	Hex. Wrench Size	F Flat Width	Max. Dia. Thru Shank	Chuck Capacity	Lock Nut Part Number	Wrench Part Number
TS300-0500	DA300	0.500"	3.60"	2.80"	0.70"	0.56"	1/2"	0.18"	1/4"	3/64"-1/4"	SNP-0500	W-0500
TS300-0625	DA300	0.625"	3.75"	2.80"	0.70"	0.56"	1/2"	0.22"	1/4"	3/64"-1/4"	SNP-0500	W-0500
TS200-0625	DA200	0.625"	3.75"	2.90"	0.71"	0.75"	11/16"	0.22"	3/8"	3/64"-3/8"	SNP-0625	W-0687
TS200-0750	DA200	0.750"	3.80"	3.00"	0.71"	0.81"	11/16"	0.27"	3/8"	3/64"-3/8"	SNP-0750	W-0687
TS100-1000	DA100	1.000"	4.00"	2.90"	0.90"	1.06"	7/8"	0.32"	9/16"	3/64"-9/16"	SNP-1000	W-0875
TS180-1000	DA180	1.000"	6.20"	4.20"	0.87"	1.56"	1-3/8"	N/A	3/4"	3/64"-3/4"	SNP-180	W-1375
TS180-1250	DA180	1.250"	6.20"	5.00"	0.87"	1.56"	1-3/8"	0.37"	3/4"	3/64"-3/4"	SNP-180	W-1375
TS180-1500	DA180	1.500"	6.20"	5.05"	0.87"	1.56"	1-3/8"	0.40"	3/4"	3/64"-3/4"	SNP-180	W-1375

**DO NOT OVER TIGHTEN LOCK NUT
ALWAYS USE BACKUP SCREW**