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Ark Kielb

A handwritten signature in blue ink, appearing to read "Ark Kielb", is positioned above the printed name.

President and CEO

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Schaumburg, IL
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2015 S. Mitchell Blvd.
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The information contained herein is subject to change without notice. We do our best to maintain in stock full and complete inventories of all regular lines. Close-out items may be depleted and will be replaced with comparable merchandise subject to prior sales. Photos and drawings shown are a general representation; occasionally we may change the exterior packaging of some products. Toolmex Corporation shall not be liable for technical or editorial errors or omissions contained herein.

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Chuck Selection Guide

Application of Chucks and Centers

Lathe Chucks



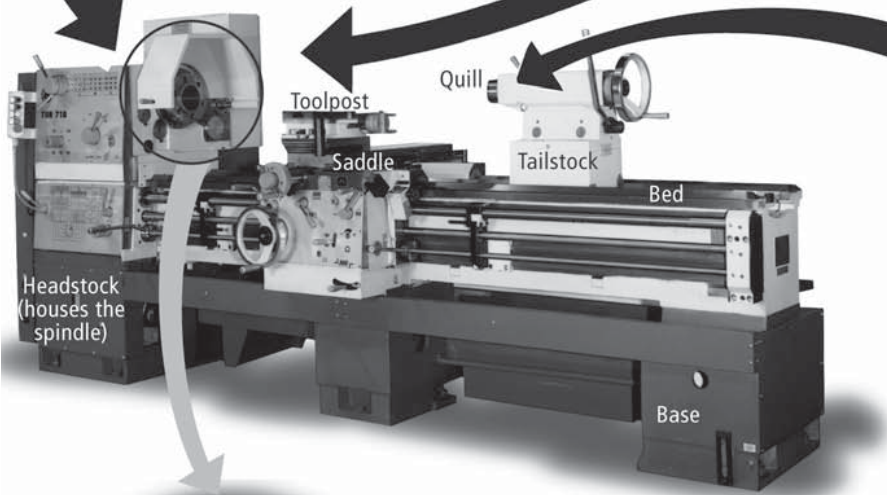
Backplate Plates (Chuck Backplates)



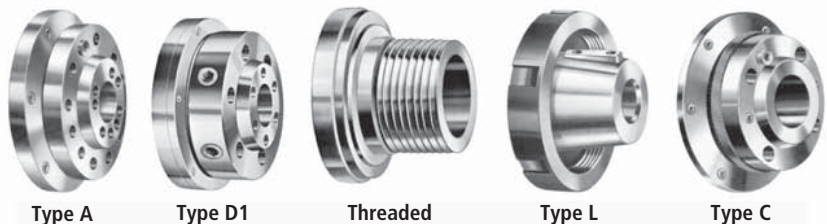
Plain Back Chuck
Direct Mount Chuck

Rotating Chucks,
Live Centers,
and
Dead Centers

Chuck with Adapter



Types of Spindle Nose



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Determining the Proper Spindle Type and Size

TMX Chucks meet all of the requirements of ASA Standard B5.9-1960

- For spindle nose accuracy (T.I.R.) see page 594
- For chuck accuracy (T.I.R.) see page 594
- If further assistance is desired, please contact Toolmex Customer Service at 800-992-4766 or +1 508-653-8897

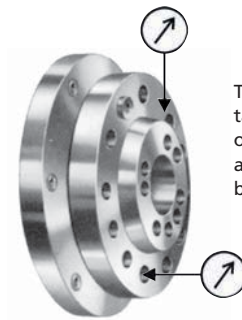
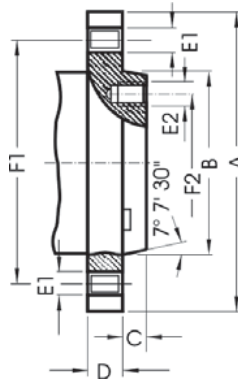
Selecting the chuck mounting:

- Choose from the types shown below
- For short taper spindle nose, Type A, D, or C (DIN), measure the pilot diameter and length (dimensions B and C), bolt circle diameter (dimensions F1 and F2) and diameter of the holes (dimensions E1 and E2)
- In the case of A type mount, check the number of bolt circles (one for A2 mount or two for A1 mount)
- All chucks with A1 mount can be installed on an A1 spindle nose only
- All chucks with A2 mount can be installed on either A1 or A2 spindle nose
- For the long taper spindle nose, Type L, check pilot diameter, length and thread size (dimensions A, C, and B)
- For the threaded spindle nose, check the thread diameter, number of threads per inch and length (dimensions B and D), plus overall length (dimension F1)

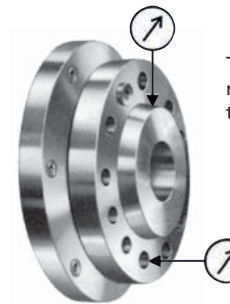
Spindle Type A1 and A2



Spindle Nose	F1	F2	B	C max	Thread E1 = E2 UNC-3B
A-4	3.2500	-	2.5005 + .0005	.4375	7/16-14
A-5	4.1250	2.4374	3.2505 + .0005	.5625	7/16-14
A-6	5.2500	3.2500	4.1880 + .0005	.6250	1/2-13
A-8	6.7500	4.37500	5.50075 + .0005	.6875	5/8-11
A-11	9.2500	6.5000	7.75075 + .0005	.7500	3/4-10
A-15	13.0000	9.7500	11.251 + .001	.8125	7/8-9
A-20	18.2500	14.5000	16.251 + .001	.8750	1-8
A-28	25.5000	20.8750	23.001 + .001	1.000	1 1/4-7



Type A1 has tapped holes on both inner and outer bolt circles

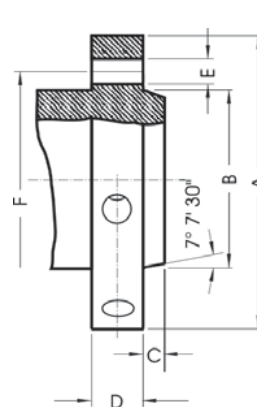


Type A2 does not have holes in the inner bolt circle

Camlock Spindle Type D1



Spindle Nose	A	F	B	C max	E	Number of Holes	Camlock Stud Dia
D1-3	3.622	2.7820	2.1250 + .00025	.4375	.5937	3	9/16
D1-4	4.606	3.2500	2.5005 + .0005	.4375	.6562		5/8
D1-5	5.748	4.1250	3.2505 + .0005	.5000	.8750	6	3/4
D1-6	7.126	5.2500	4.1880 + .0005	.5625	1.000		7/8
D1-8	8.858	6.7500	5.50075 + .0005	.6250	1.125		1
D1-11	11.732	9.2520	7.75075 + .0005	.6875	1.250		1 3/16
D1-15	15.866	13.0000	11.251 + .001	.7500	1.375		1 3/8



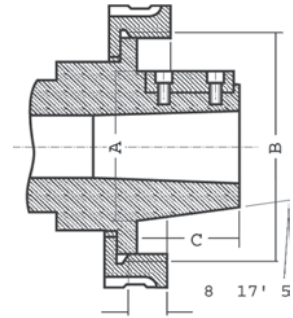
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Determining the Proper Spindle Type and Size

Long Taper Key Drive, Spindle Type L



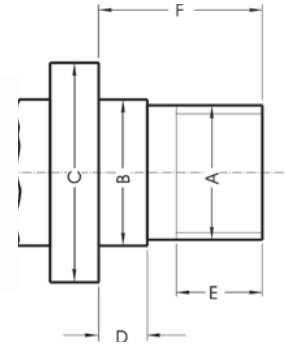
Spindle Nose	Thread B	C	A	Key
L00	3 3/4" - 6"	2	2.75	3/8 x 3/8 x 1 1/2
L0	4 1/2" - 6"	2 3/8	3.250	3/8 x 3/8 x 1 3/4
L1	6" - 6"	2 7/8	4.125	5/8 x 5/8 x 2 3/8
L2	7 3/4" - 5"	3 3/8	5.250	3/4 x 3/4 x 2 7/8
L3	10 3/8" - 4"	3 7/8	6.500	1 x 1 x 3 1/4



Threaded Spindle



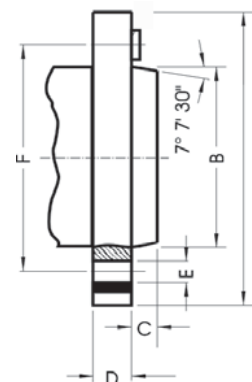
Spindle Nose A	B	F	D	E
1" - 10" UNS-2B	1.015	1.500	.4375	1.000
1 1/2" - 8" UN-2B	1.515	1.500	.4375	1.000
2 3/16" - 10" UN-2B	2.2025	1.750	.5625	1.125
2 1/4" - 8" UN-2B	2.260	1.750	.5625	1.125
2 3/16" - 6" UN-2B	2.2025	1.750	.5625	1.125
2 3/4" - 8" UN-2B	2.760	2.0625	.6875	1.3125



German Standard DIN 55027, Spindle Type C



Spindle Nose	F	B	C max	E	Number of Holes
C-4	3.2500	2.5005	.4331	.83	3
C-5	4.1250	3.2505	.5118	.83	4
C-6	5.2500	4.1880	.5512	.91	4
C-8	6.7500	5.50075	.6299	1.14	4
C-11	9.2520	7.75075	.7087	1.42	6



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Self-Centering Scroll Chuck Accuracy

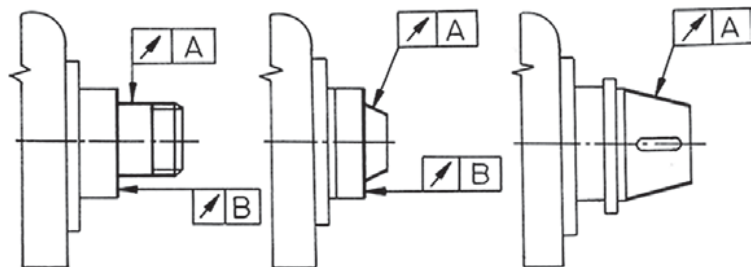
Test Description								
	a Radial Runout	b Face Runout	Radial Runout	L	a Radial Runout	b Face Runout	a Radial Runout	b Face Runout
Chuck Dia								
6-1/4"	.0016	.0012	.0016	1.9685	.0016	.0010	.0016	.0012
8"	.0020	.0016	.0020		.0020	.0012	.0024	.0016
10"				.0028	.0020	.0024	.0016	.0031
12-1/2"	.0024	.0020	.0024	2.9528	.0024	.0016		.0031
15-3/4"	.0028	.0024	.0031		.0028	.0016	.0035	.0020

Permissible Spindle Runout

To obtain the specified clamping accuracy of a chuck mounted on a machine tool, it is necessary to:

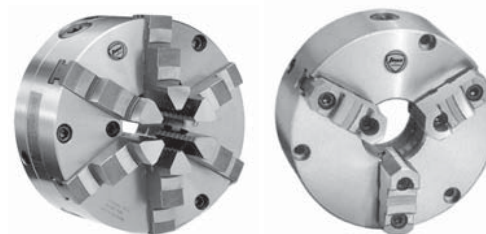
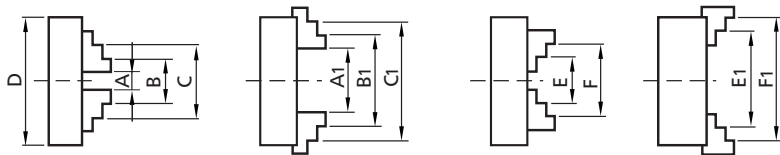
1. Reduce play in the spindle bearings to allowable minimum
2. Ensure the machine spindle nose does not exceed the values specified
3. Meet the basic requirements for correct mounting of the chuck on the spindle nose
4. Follow the chuck manual

Chuck Dia	Spindle Runout
3500 Steel Body Chucks	
3" - 16"	.00012" max.
20" - 25"	.0002" max.
3200 Semi-Steel Body	
3" - 6"	.00012" max.
8" - 32"	.0002" max.



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Clamping Ranges for 3 and 6-Jaw SET-TRU Forged Steel Chucks, 3-866 and 3-868 Series



Chuck Dia		5"	6-1/4"	8"	10"	12"	15-3/4"
Two-Piece Jaws	A-A1	0.24 - 1.69	0.31 - 2.52	0.31 - 3.54	0.47 - 4.65	0.47 - 5.16	0.59 - 7.95
	B-B1	1.30 - 2.76	1.77 - 3.82	2.05 - 5.12	2.68 - 6.85	2.68 - 7.17	2.87 - 9.92
	C-C1	2.99 - 4.69	3.62 - 5.75	4.29 - 7.48	5.91 - 10.08	5.91 - 10.43	6.65 - 13.86
	E-E1	1.97 - 3.43	2.64 - 4.76	2.91 - 6.14	3.23 - 7.40	4.25 - 8.90	5.20 - 11.65
	F-F1	3.70 - 4.92	4.65 - 6.30	5.28 - 7.87	6.46 - 9.84	6.02 - 12.4	9.29 - 15.75

Clamping Ranges for 3-Jaw Forged Steel Chucks, 3-820 Series

Chuck Dia		6-1/4"	8"	10"	12"
Two-Piece Jaws	A-A1	0.12 - 2.52	0.16 - 3.54	0.20 - 4.65	0.39 - 5.16
	B-B1	1.65 - 3.94	2.05 - 5.31	2.44 - 6.85	3.07 - 7.87
	C-C1	3.70 - 6.06	4.72 - 7.95	5.71 - 10.08	6.77 - 11.77
	E-E1	1.97 - 4.21	2.36 - 5.71	3.03 - 7.40	3.54 - 8.46
	F-F1	3.86 - 6.30	5.12 - 7.87	6.30 - 9.84	7.48 - 12.4



Clamping Ranges for 3-Jaw Semi-Steel Chucks

Chuck Dia		6-1/4"	8"	10"	12"	15-3/4"
Solid Jaws	A-A1	0.12 - 2.05	0.16 - 3.27	0.20 - 4.21	0.39 - 5.51	0.39 - 8.27
	B-B1	1.69 - 3.94	2.05 - 5.32	2.44 - 6.85	3.15 - 7.87	3.35 - 9.92
	C-C1	3.70 - 6.06	4.72 - 7.95	5.71 - 10.08	6.93 - 12.4	8.27 - 15.75
	E-E1	2.09 - 4.02	2.36 - 5.43	3.03 - 7.01	3.70 - 8.46	4.06 - 10.71
	F-F1	4.06 - 5.98	5.12 - 7.87	6.30 - 9.84	7.48 - 12.4	9.06 - 15.75
Two-Piece Jaws	A-A1	0.12 - 2.01	0.16 - 3.50	0.20 - 4.65	0.39 - 5.51	0.39 - 8.27
	B-B1	1.73 - 3.82	2.05 - 5.12	2.40 - 6.50	2.76 - 7.17	2.91 - 8.98
	C-C1	3.46 - 5.75	4.25 - 7.48	4.92 - 9.25	5.94 - 11.81	6.50 - 13.78
	E-E1	2.44 - 4.29	2.83 - 5.98	3.39 - 7.76	4.06 - 8.90	5.00 - 11.57
	F-F1	4.53 - 6.14	5.12 - 7.87	6.30 - 9.84	7.48 - 12.40	9.06 - 15.75



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Lathe Chuck Safety Conditions

- Due to chuck rotating speeds and cutting forces during machining, care should be taken to ensure the proper and safe use of your Toolmex chuck
- Cleaning should be done often for safety purposes as well as to provide a long work life for your chuck
- Proper maintenance ensures longer life of the product

PRIOR TO OPERATING YOUR TMX LATHE CHUCK, PLEASE:

- Read the chuck manual
- Do not start the lathe until all is clear. A collision between the chuck and lathe will cause damage to both
- Do not use the chuck on heavy work where the chuck jaws project appreciably from the chuck body. Refer to the tables on pages 592-594 to select the correct size chuck for the application
- Do not clamp long work pieces in the chuck without additional support as this can cause heavy damage to the lathe and work environment
- Always remove the chuck wrench before starting the machine
- Do not remove the safety spring from the chuck wrench
- Never operate the chuck if any parts are damaged, missing, or cracked
- Do not tamper with the chuck. If an inaccuracy is found, check the spindle nose or backplate for true-running and make sure there is no dirt or foreign matter between the mounting faces
- Never exceed maximum speed (RPM) of the chuck.
- Periodically inspect and service chucks for wear to avoid inadequate workholding conditions
- Be sure top jaws are securely bolted to the master jaws
- Never do any unauthorized chuck modifications
- Always keep your chuck clean and lubricated

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3-Jaw SET-TRU Scroll Chucks, 0.0006" T.I.R.

- TMX SET-TRU Scroll Chucks can be used for all machining operations where universal chucks are used, along with applications where Universal Scroll Chucks require tighter tolerances
- Outstanding accuracy, versatility and long life make TMX SET-TRU chucks invaluable in the modern workshop and indispensable in the toolroom

SET-TRU Chuck Features and Benefits:

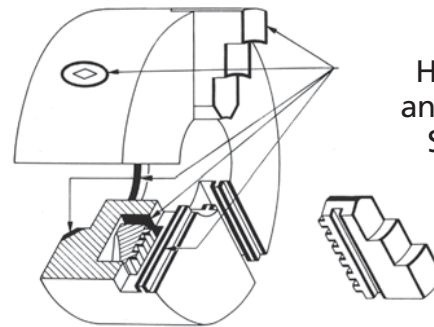
- Fine adjustment
- Available in both Forged Steel and Semi-Steel Body
- 3 pinion design
- 4 micro adjustment screws provide .0004" T.I.R. repeatability
- Two piece top and master jaws are American Standard tongue and groove
- Scrolls are forged and fully hardened with thread flanks ground on both sides, then precisely balanced for longer life and higher accuracy
- Each scroll is precisely balanced
- Jaw teeth and guides on both sides are fully hardened and ground. Hardened and ground bushings are pressed into the pinion seats. Pinions in 3 pinion models are hardened and ground
- Steel mounting plates are interchangeable with Toolmex SET-TRU chucks of the same size so that one chuck can be used on different spindles
- The life of your Toolmex chuck can be extended significantly through proper maintenance and must be cleaned on a regular basis as recommended



Outstanding Accuracy and Quality



Steel Backplate
Front View



Hardened and Ground Surfaces

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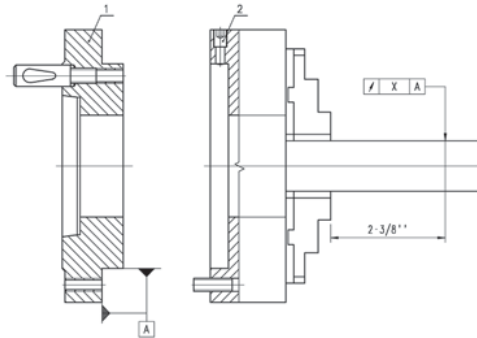
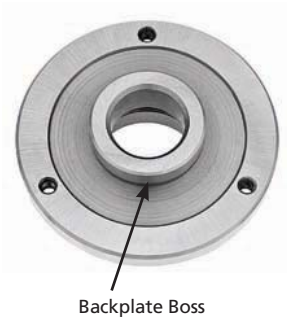


SET-TRU Scroll Chucks

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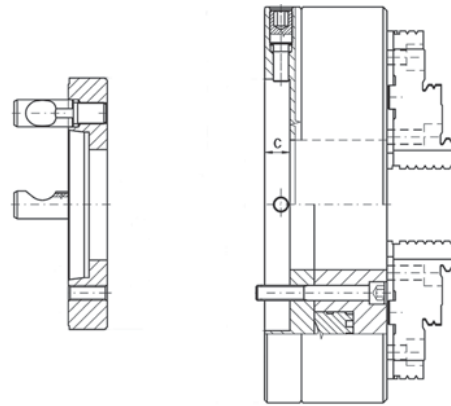
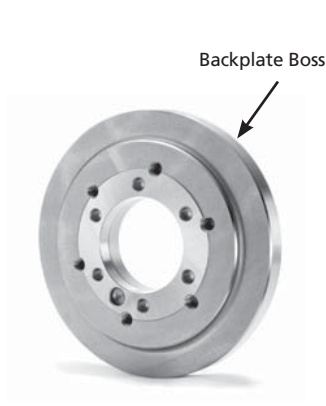
SET-TRU SCROLL CHUCKS

3-Jaw SET-TRU Scroll Chucks, 0.0006" T.I.R.



Backplate and Chuck Mounting Principles for 4" through 12-1/2" Diameter Chucks

- The backplate outside diameter, d , is the same as the chuck's outside diameter, D
- The clearance range between the chuck counterbore and backplate boss OD is from 0.0078" to 0.0129"



Backplate and Chuck Mounting Principles for 15-3/4" through 25" Diameter Chucks

- The backplate outside diameter, d , is the same as chuck's counterbore diameter, D
- The clearance range between the chuck counterbore and backplate OD is from 0.0141" to 0.0236"

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3-Jaw Forged Steel SET-TRU Scroll Chucks, 0.0006" T.I.R.

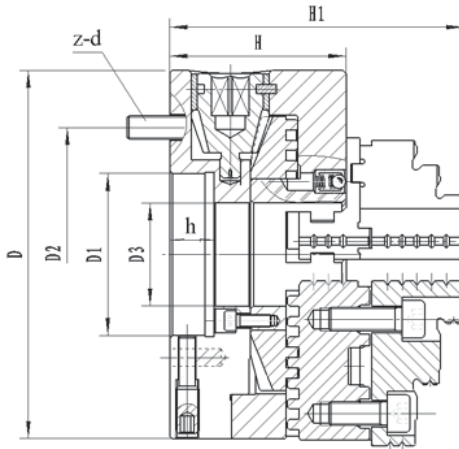
3-Jaw Scroll Chucks

2-Piece Hard Reversible Jaws

- Forged-Steel body
- 3 pinion design, hardened and ground

Each chuck is provided with:

- 1 Set of hard master jaws
- 1 Set of Hard Top Reversible Jaws
- 1 Self-ejecting chuck wrench
- 1 Set of mounting bolts
- 1 Set of fine adjustment screws
- 2 Hex keys



3-Jaw (2pc jaw) SET-TRU Self-Centering

Chuck Dia	Part Number	Retail Price	D ₁	D ₂	D ₃	H	H ₁	h	z-d	Wt lbs	Fine Adjustment Screws	
5"	3-866-0500	729.00	2.1654	4.2520	1.3780	2.3622	3.9409	0.5906	3-M8	14.5	M8x1	4
6-1/4"	3-866-0600	625.00	3.3858	5.5118	1.6535	2.7953	4.5039	0.7087	3-M10	22.5	M12x1.5	4
8"	3-866-0800	759.00	4.3307	6.9291	2.1654	3.1693	4.9409	0.7874	3-M10	39.0	M18x1	4
10"	3-866-1000	950.00	5.7087	8.8189	2.9921	3.7205	5.8071	0.7874	3-M12	68.0	M18x1	4
12"	3-866-1200	1,475.00	7.0866	11.2598	4.0551	3.7205	5.9646	0.7874	3-M16	125.0	M18x1	4
15-1/4"	3-866-1600	2,399.00	11.781	6.7520	5.3543	4.1339	6.8307	0.8661	6-5/8"-11	247.0	M18x1	8

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025 see below

TMX High Pressure Chuck Lubricant

TMX Chuck Lubricant	Part Number	Retail Price
16 oz	3-799-025	28.00



Prices are subject to change without notice



SET-TRU Steel Body Chucks

TOOLMEX
Industrial Solutions

SET-TRU SCROLL STEEL BODY CHUCKS

6-Jaw Forged Steel SET-TRU Scroll Chucks, 0.0006" T.I.R.

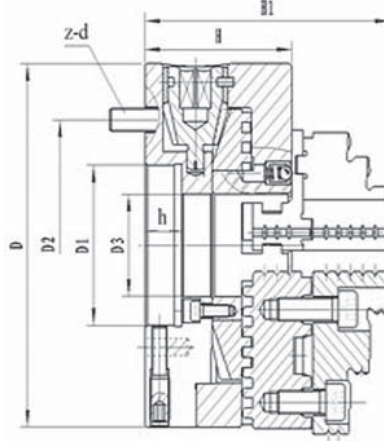
6-Jaw Scroll Chucks

2-Piece Hard Reversible Jaws

- Forged-Steel body
- 3 pinion design, hardened and ground

Each chuck is provided with:

- 1 Set of hard master jaws
- 1 Set of Hard Top Reversible Jaws
- 1 Self-ejecting chuck wrench
- 1 Set of mounting bolts
- 1 Set of fine adjustment screws
- 2 Hex keys



6-Jaw (2pc jaw) SET-TRU Self-Centering

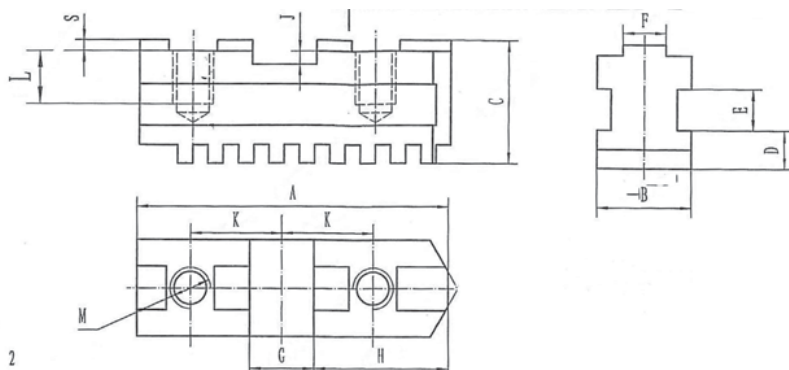
Chuck Dia	Part Number	Retail Price	D ₁	D ₂	D ₃	H	H ₁	h	z-d	Wt lbs	Fine Adjustment Screws	
6-1/4"	3-868-0600	829.00	3.3858	5.5118	1.6535	2.7953	4.5039	0.7087	3-M10	24.0	M12x1.5	4
8"	3-868-0800	998.00	4.3307	6.9291	2.1654	3.1693	4.9409	0.7874	3-M10	41.0	M18x1	4
10"	3-868-1000	1,375.00	5.7087	8.8189	2.9921	3.7205	5.8071	0.7874	3-M12	70.0	M18x1	4
12"	3-868-1200	1,850.00	7.0866	11.2598	4.0551	3.7205	5.9646	0.7874	3-M16	125.0	M18x1	4
15-1/4"	3-868-1600	3,599.00	11.7810	6.7520	5.3543	4.1339	6.8307	0.8661	6-5/8"-11	248	M18x1	8

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 599

Prices are subject to change without notice

Hard Master Jaws for 3 and 6-Jaw SET-TRU Forged Steel Scroll Chucks

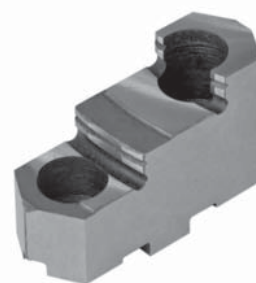
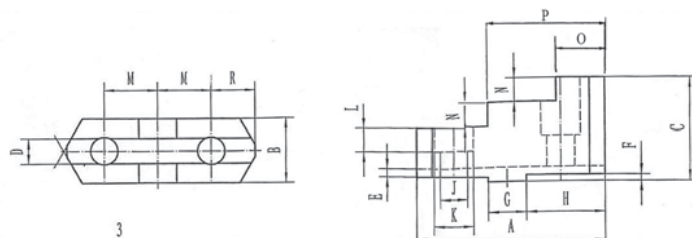
- American Standard tongue and groove jaws
- Sold in 3 or 6 piece sets



Chuck Dia	3-Jaw Part Number	Retail Price	6-Jaw Part Number	Retail Price	A	B	C	D	E	F	G	H	J	K	L	M	O	P	S
5"	3-885-305S	147.27	3-885-605S	294.55	2.13	0.79	1.10	0.31	0.31	0.31	0.50	0.89	0.16	0.63	0.53	M8	0.49	1.38	0.51
6-1/4"	3-885-306S	156.11	3-885-606S	312.22	2.56	0.79	1.14	0.31	0.31	0.31	0.50	1.13	0.16	0.75	0.55	M10	0.70	1.76	0.63
8"	3-885-308S	203.24	3-885-608S	465.38	3.11	0.98	1.30	0.35	0.39	0.31	0.50	1.37	0.16	0.87	0.55	M10	0.75	2.14	0.75
10"	3-885-310S	244.47	3-885-610S	488.95	3.62	1.10	1.42	0.43	0.47	0.50	0.75	1.56	0.16	1.06	0.63	M12	0.84	2.28	0.87
12-1/2"	3-885-312S	285.71	3-885-612S	571.42	4.33	1.26	1.57	0.50	0.47	0.50	0.75	1.87	0.16	1.25	0.79	M12	1.10	2.78	1.00
15-3/4"	3-885-316S	441.82	3-885-616S	883.64	5.12	1.42	1.93	0.59	0.55	0.50	0.75	2.25	0.28	1.50	1.10	M16	0.94	2.97	1.12

Hard Top Jaws for 3 and 6-Jaw SET-TRU Forged Steel Scroll Chucks

- American Standard tongue and groove jaws
- Sold in 3 or 6 piece sets
- Jaws are interchangeable with most chucks



Chuck Dia	3-Jaw Part Number	Retail Price	6-Jaw Part Number	Retail Price	A	B	C	D	E	F	G	H	J	K	L	M	N	R
5"	3-883-305S	176.73	3-883-605S	353.45	2.20	0.87	1.52	0.31	0.16	0.13	0.50	0.89	0.35	0.59	0.39	0.63	0.31	0.51
6-1/4"	3-883-306S	182.62	3-883-606S	365.24	2.64	0.98	1.63	0.31	0.16	0.13	0.50	1.13	0.43	0.67	0.47	0.75	0.33	0.63
8"	3-883-308S	209.13	3-883-608S	418.25	3.15	1.06	1.71	0.31	0.16	0.13	0.50	1.37	0.43	0.67	0.47	0.87	0.37	0.75
10"	3-883-310S	250.36	3-883-610S	500.73	3.74	1.28	2.03	0.50	0.16	0.13	0.75	1.56	0.55	0.79	0.55	1.06	0.47	0.87
12-1/2"	3-883-312S	332.84	3-883-612S	665.67	4.33	1.46	2.17	0.50	0.16	0.13	0.75	1.87	0.51	0.79	0.51	1.25	0.51	1.00
15-3/4"	3-883-316S	441.82	3-883-616S	883.64	5.04	1.65	2.54	0.50	0.16	0.24	0.75	2.25	0.71	1.02	0.67	1.50	0.53	1.12

Prices are subject to change without notice



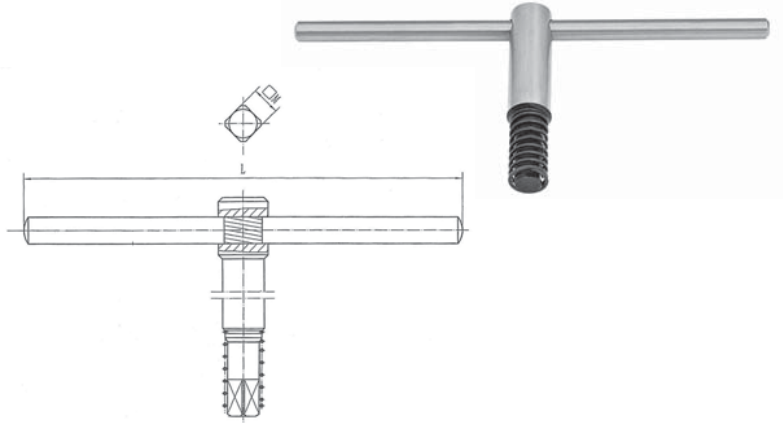
SET-TRU Steel Body Parts

TOOLMEX
Industrial Solutions

SET-TRU STEEL BODY SCROLL SPARE PARTS

Spare Parts for 3 and 6-Jaw SET-TRU Forged Steel Scroll Chucks

Chuck Dia	Wrench			
	Part Number	Retail Price	Square Size	Length
5"	3-889-006	11.40	10	8.46
6-1/4"				
8"	3-889-008	13.30	12	7.87
10"	3-889-010	17.09	12	12.20
12"	3-889-012	20.89	14	12.40
15-1/4"	3-889-016	26.60	15	15.75



Chuck Dia	Scroll Plate	
	Part Number	Retail Price
5"	3-887-505	132.55
6-1/4"	3-887-506	138.44
8"	3-887-508	212.07
10"	3-887-510	276.87
12"	3-887-512	441.82
15-1/4"	3-887-516	536.07



Pinion	
Part Number	Retail Price
3-886-505	37.10
3-886-506	39.01
3-886-508	43.10
3-886-510	61.07
3-886-512	71.80
3-886-516	104.71



Pinion Sleeve	
Part Number	Retail Price
3-888-505	23.83
3-888-506	25.76
3-888-508	27.43
3-888-510	31.58
3-888-512	32.60
3-888-516	36.00



Chuck Dia	Half Ring	
	Part Number	Retail Price
5"	3-888-705	10.90
6-1/4"	3-888-706	11.78
8"	3-888-708	13.09
10"	3-888-710	14.01
12"	3-888-712	15.22
15-1/4"	3-888-716	16.36

Fine Adjustment Screw	
Part Number	Retail Price
3-897-6051S	6.03
3-897-6061S	6.31
3-897-6081S	7.01
3-897-6101S	8.06
3-897-6121S	9.46
3-897-6161S	10.87

Prices are subject to change without notice

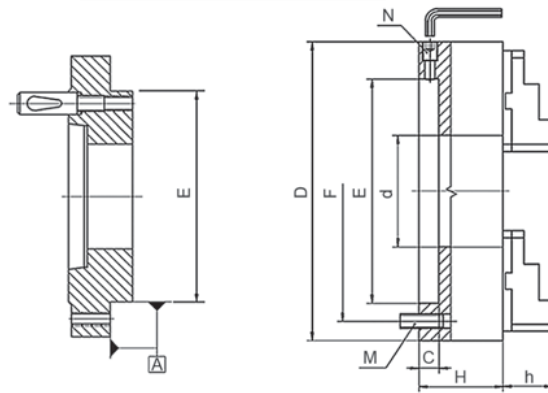
3-Jaw SET-TRU Scroll Chucks, 0.0006" T.I.R.

3-Jaw Scroll Chucks 2-Piece Hard Reversible Jaws

- Semi-Steel body
- 3 pinion design, hardened and ground

Each chuck is provided with:

- 1 Set of hard master jaws
- 1 Set of Hard Top Reversible Jaws
- 1 Self-ejecting chuck wrench
- 1 Set of mounting bolts
- 1 Set of fine adjustment screws
- 2 Hex keys



Chuck Dia D		Part Number	Retail Price	F	E	Hole Dia d	H	h	C	RPM max		Mounting Bolts M		Fine Adjustment Screws N	
inch	mm	3-Jaw								3-Jaw	6-Jaw	Thread	Qty	Thread	Qty
6-1/4"	160	3-866-0600Z	339.00	5.5118	3.3858	1.7717	2.9528	1.7323	0.7283	3000	0	M10x1.5	3	M18x1	4
8"	200	3-866-0800Z	429.00	6.9291	4.3307	2.1654	3.3465	1.8504	0.7480	2500	0	M10x1.5	3	M18x1	4
10"	250	3-866-1000Z	639.00	8.8189	5.7087	3.1496	3.5433	2.1457	0.7874	2000	0	M12x1.75	3	M18x1	4
12-1/2"	317	3-866-1200Z	959.00	11.2598	7.0866	4.0945	3.9370	2.3031	0.7874	1500	0	M16x2	3	M18x1	4
15-3/4"	400	3-866-1600Z	1,359.00	6.7500	11.7820	5.3543	4.2520	2.6378	0.8268	1000	0	5/8"-11	6	M18x1	8

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 599

See page 595 for clamping ranges

Prices are subject to change without notice



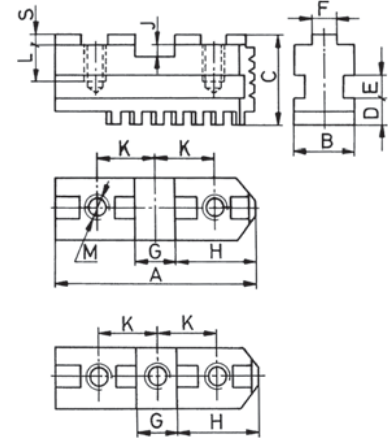
SET-TRU Semi-Steel Jaws



SET-TRU SEMI-STEEL SCROLL CHUCK JAWS

Hard Master Jaws for 3-Jaw Scroll Chucks

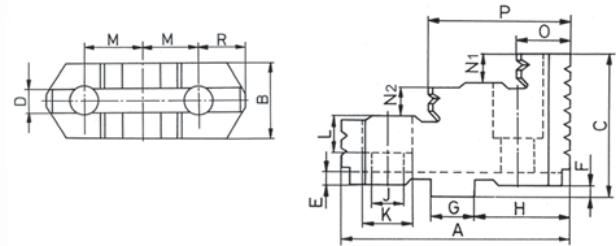
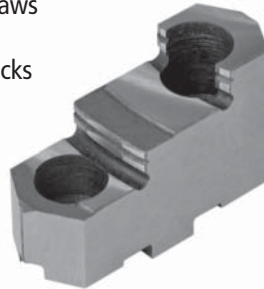
- American Standard tongue and groove jaws
- Sold in 3 piece sets



Chuck Dia	Part Number	Retail Price	K	H	G	F	J	L	D	E	B	A	S	Thread M	C	Wt lbs
6-1/4"	3-885-306	114.82	0.748	1.1260	0.4996	0.3126	0.1575	0.6299	0.3543	0.3937	0.7874	2.5591	0.1181	3/8"-16	0.0511	0.08
8"	3-885-308	123.45	0.874	1.3799												
10"	3-885-310	185.91	1.063	1.5669	0.4724	1.1024		3.7402								
12-1/2"	3-885-312	366.21	1.250	1.8740	0.7496	0.5000	0.8268	0.5315	0.5118	1.2598	4.4882	5/8"-11	1/2"-13	0.0589	0.22	
15-3/4"	3-885-316	424.70	1.500	2.2500			0.2756						0.9449	1.4173	5.1181	0.0666

Hard Top Jaws for 3-Jaw Scroll Chucks

- American Standard tongue and groove jaws
- Sold in 3 piece sets
- Jaws are interchangeable with most chucks



Chuck Dia	Part Number	M	H	G	J	K	L	D	E	F	N1	N2	C	B	A	O	P	Wt lbs							
6-1/4"	3-883-306	0.7480	1.1260	0.4996	0.4173	0.6496	0.4331	0.3126	0.1575	0.1181	0.3150	0.3543	1.6142	0.9843	2.6378	0.7047	1.6063	0.12							
8"	3-883-308	0.8740	1.3799																0.5118	0.3543	0.3937	1.7717	1.0630	3.1496	0.8465
10"	3-883-310	1.0630	1.5669	0.5394	0.8268	0.5512	0.4528	0.4921											2.0276	1.2992	3.8189	0.9724	2.3228	0.28	
12-1/2"	3-883-312	1.2500	1.8740	0.7496	0.5394	0.8268	0.5906	0.5000	0.1575	0.1181	0.4921	0.5315	2.1654	1.4567	4.3307	1.0354	2.6811	0.41							
15-3/4"	3-883-316	1.5000	2.2500																0.6890	1.0236	0.7283	0.2362	0.5315	0.5709	2.5394

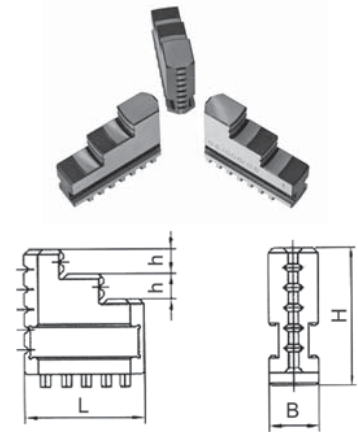
Chuck Dia	Part Number	Retail Price
6-1/4"	3-883-306	82.06
8"	3-883-308	90.33
10"	3-883-310	122.42
12-1/2"	3-883-312	300.73
15-3/4"	3-883-316	325.25

Prices are subject to change without notice

ID Hard Solid Jaws for 3-Jaw Chucks

- Sold in 3 piece sets

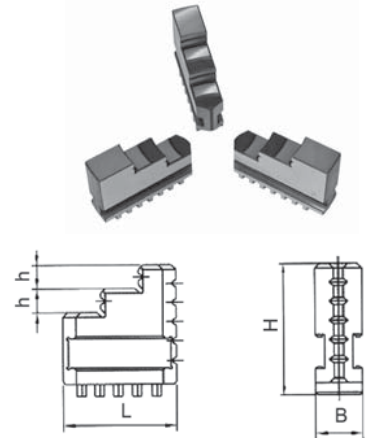
Chuck Dia	Part Number ID Jaws	Retail Price	L	B	H	h
6-1/4"	3-881-306	98.58	2.756	0.787	2.126	0.4724
8"	3-881-308	106.88	3.347	0.984	2.402	
10"	3-881-310	156.18	4.134	1.102	2.717	
12-1/2"	3-881-312	306.36	4.921	1.260	2.953	0.7087
15-3/4"	3-881-316	374.95	5.709	1.417	3.622	



OD Hard Solid Jaws for 3-Jaw Chucks

- Sold in 3 piece sets

Chuck Dia	Part Number OD Jaws	Retail Price	L	B	H	h
6-1/4"	3-880-306	98.61	2.756	0.787	2.126	0.4724
8"	3-880-308	106.88	3.347	0.984	2.402	
10"	3-880-310	156.21	4.134	1.102	2.717	
12-1/2"	3-880-312	306.36	4.921	1.260	2.953	0.7087
15-3/4"	3-880-316	374.95	5.709	1.417	3.622	



Spare Parts for 3-Jaw Chucks with Semi-Steel Body

- Sold by the piece
- OD = outside diameter
- L = overall length



Chuck Dia	Scroll		
	Part Number	Retail Price	OD
6-1/4"	3-887-306	46.67	4.8031
8"	3-887-308	57.61	6.1811
10"	3-887-310	90.33	7.7559
12-1/2"	3-887-312	175.03	10.1181
15-3/4"	3-887-316	278.60	12.6772

Pinion	
Part Number	Retail Price
3-886-306	29.76
3-886-308	34.27
3-886-310	39.91
3-886-312	56.09
3-886-316	74.80



Chuck Dia	Wrench	
	Part Number	Retail Price
6-1/4"	3-889-306	11.40
8"	3-889-308	13.30
10"	3-889-310	17.09
12-1/2"	3-889-312	20.89
15-3/4"	3-889-316	26.60

Pinion Screw	
Part Number	Retail Price
3-889-3060	1.50
3-889-3080	2.16
3-889-3120	2.52



Prices are subject to change without notice



SET-TRU Backplates



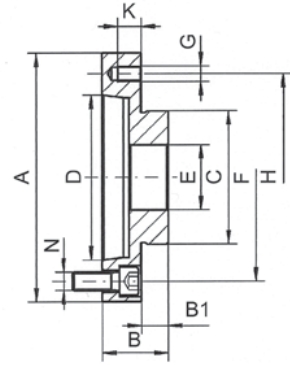
Fully Machined Type A Steel Backplates for Precision Accuracy SET-TRU Chucks

- Designed to mount on A1 and A2 American Standard spindles

Spindle Nose



Type A



Chuck Dia	Part Number	Retail Price	Taper Size	A	D	E	F	C	H	Chuck Mounting Holes G	K	B1	B	Spindle Mounting Bolts N	Bolts Qty	Wt lbs
6-1/4"	3-874-065	130.50	A5	6.2992	3.252	1.6535	4.1260	3.3858	5.5118	M10x1.5	0.8268	0.6299	1.4567	7/16"-14	4	6.8
8"	3-874-085	143.25	A5	7.8740	4.189	2.1654	4.1260	4.3307	6.9291	M10x1.5	0.6299	0.7480	1.2992	7/16"-14	4	9.3
	3-874-086	168.75	A6				5.2520				1.1024		1.7717	1/2"-13		13.5
10"	3-874-105	207.00	A5	9.8425	3.252	2.9921	4.1260	5.7087	8.8189	M12x1.75	0.7480	0.7480	1.4961	7/16"-14	4	17.3
	3-874-106	207.00	A6		4.189		5.2520						1.7717	1/2"-13		
12-1/2"	3-874-126	280.50	A6	12.4016	4.189	4.0551	5.2520	7.0866	11.2598	M16x2	0.7480	0.7480	1.4961	1/2"-13	4	27.3
	3-874-128	302.63	A8		5.500		6.7480				1.0630		1.8110	5/8"-11		35.7

Prices are subject to change without notice

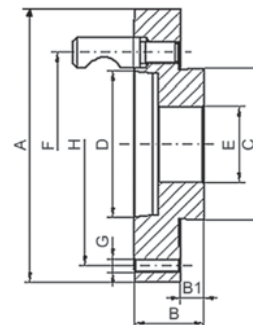
Fully Machined Type D1 Steel Backplates for Precision Accuracy SET-TRU Chucks

- Type D1 American Standard camlock spindles

Spindle Nose



Type D



Chuck Dia	Part Number	Retail Price	Taper Size	Stud Dia	Number of Studs	A	F	D	E	C	H	Chuck Mounting Holes G	B1	B	Wt lbs
5"	3-875-054	146.63	D1-4	5/8	3	4.9213	3.2520	2.5000	1.3780	2.1654	4.2520	M8x1.25	0.5512	1.5354	5.7
	3-875-056	162.75	D1-6	7/8	6	7.1260	5.2520	4.1890						1.8898	13
6-1/4"	3-875-063	165.75	D1-3	9/16	3	6.2992	2.7795	2.1260	1.6535	3.3858	5.5118	M10x1.5	0.6299	1.8110	10.8
	3-875-064	165.75	D1-4	5/8			3.2520	2.5000						9.9	
8"	3-875-084	184.88	D1-4	5/8	3	7.8740	3.2520	2.5000	2.1654	4.3307	6.9291	M10x1.5	0.6693	1.2992	10.4
	3-875-085	195.75	D1-5	3/4	6		4.1339	3.2520						1.8504	15.9
	3-875-086	184.88	D1-6	7/8			5.2520	4.1890						2.0079	17.6
10"	3-875-106	236.25	D1-6	7/8	6	9.8425	5.2520	4.1890	2.9921	5.7087	8.8189	M12x1.75	0.7480	2.0866	28.4
	3-875-108	253.50	D1-8	1			6.7520	5.5000						2.3622	32.4
12-1/4"	3-875-126	283.88	D1-6	7/8	6	12.4016	5.2520	4.1890	4.0551	7.0866	11.2598	M16x2	0.7480	1.4961	28.4
	3-875-128	406.13	D1-8	1			6.7520	5.5000						2.2441	47.8

Camlock Studs and Set Screws

- Sold by piece



Taper Size	Camlock Studs			
	Part Number	Retail Price	Diameter	Thread
D1-4	3-899-104	11.39	5/8"	M10 x 1
D1-5	3-899-105	12.51	3/4"	M12 x 1
D1-6	3-899-106	14.25	7/8"	M16 x 1.5
D1-8	3-899-108	16.60	1"	M20 x 1.5
D1-11	3-899-111	22.75	1-3/16"	M22 x 1.5

Set Screw Part Number	Retail Price	Number of Studs
		3-899-305
3-899-310	6.75	6

Prices are subject to change without notice



Precision Scroll Chucks



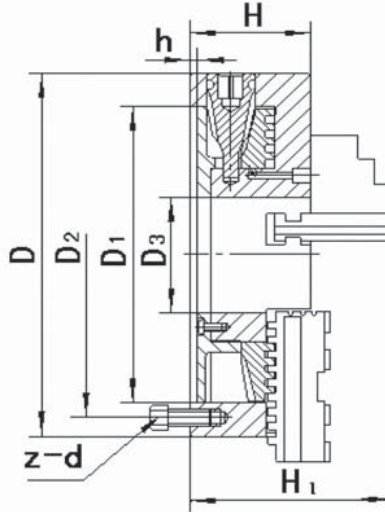
3-Jaw Precision Forged Steel Scroll Chucks

3-Jaw Scroll Chucks
2-Piece Hard Reversible Jaws

- Forged-Steel body
- 3 pinion design, hardened and ground

Each chuck is provided with:

- 1 Set of hard master jaws
- 1 Set of Hard Top Reversible Jaws
- 1 Self-ejecting chuck wrench
- 1 Set of mounting bolts
- 1 Set of fine adjustment screws
- 2 Hex keys



3-Jaw (2pc jaw) Self-Centering Precision

Chuck Dia	Part Number	Retail Price	D ₁	D ₂	D ₃	H	H ₁	h	z-d	Wt lbs
6-1/4"	3-820-0600	519.00	4.9213	5.5118	1.6535	2.5591	3.8307	0.1575	6-M10	23
8"	3-820-0800	699.00	6.2992	6.9291	2.1654	3.1102	4.252	0.1575	6-M10	39
10"	3-820-1000	899.00	7.874	8.8189	2.9921	3.5039	4.8819	0.1969	6-M12	68
12"	3-820-1200	1,399.00	10.2362	11.2598	4.0551	3.622	5.248	0.1969	6-M16	123

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See below

TMX High Pressure Chuck Lubricant

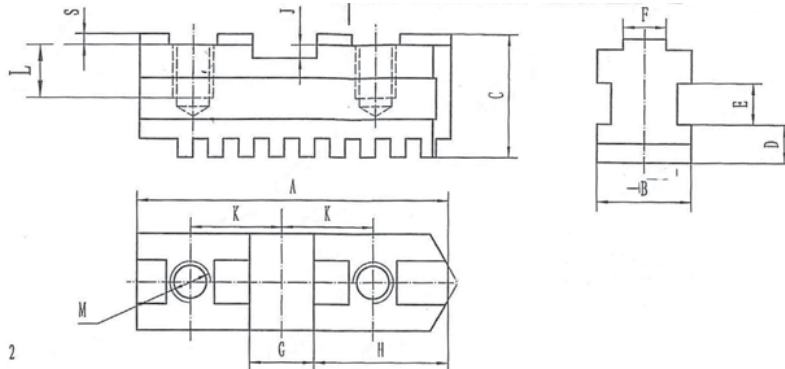
TMX Chuck Lubricant	Part Number	Retail Price
16 oz	3-799-025	28.00



Prices are subject to change without notice

Hard Master Jaws for 3-Jaw Precision Forged Steel Scroll Chucks

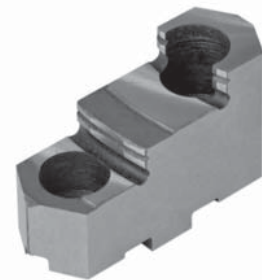
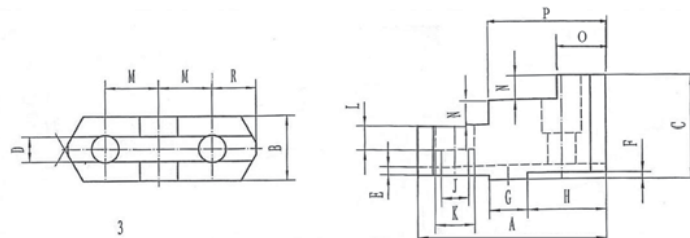
- American Standard tongue and groove jaws
- Sold in 3 or 6 piece sets



Chuck Dia	3-Jaw Part Number	Retail Price	A	B	C	D	E	F	G	H	J	K	L	M	O	P	S
5"	3-885-305S	147.27	2.13	0.79	1.10	0.31	0.31	0.31	0.50	0.89	0.16	0.63	0.53	M8	0.49	1.38	0.51
6-1/4"	3-885-306S	156.11	2.56	0.79	1.14	0.31	0.31	0.31	0.50	1.13	0.16	0.75	0.55	M10	0.70	1.76	0.63
8"	3-885-308S	203.24	3.11	0.98	1.30	0.35	0.39	0.31	0.50	1.37	0.16	0.87	0.55	M10	0.75	2.14	0.75
10"	3-885-310S	244.47	3.62	1.10	1.42	0.43	0.47	0.50	0.75	1.56	0.16	1.06	0.63	M12	0.84	2.28	0.87
12-1/2"	3-885-312S	285.71	4.33	1.26	1.57	0.50	0.47	0.50	0.75	1.87	0.16	1.25	0.79	M12	1.10	2.78	1.00
15-3/4"	3-885-316S	441.82	5.12	1.42	1.93	0.59	0.55	0.50	0.75	2.25	0.28	1.50	1.10	M16	0.94	2.97	1.12

Hard Top Jaws for 3-Jaw Precision Forged Steel Scroll Chucks

- American Standard tongue and groove jaws
- Sold in 3 piece sets
- Jaws are interchangeable with most chucks



Chuck Dia	3-Jaw Part Number	Retail Price	A	B	C	D	E	F	G	H	J	K	L	M	N	R
5"	3-883-305S	176.73	2.20	0.87	1.52	0.31	0.16	0.13	0.50	0.89	0.35	0.59	0.39	0.63	0.31	0.51
6-1/4"	3-883-306S	182.62	2.64	0.98	1.63	0.31	0.16	0.13	0.50	1.13	0.43	0.67	0.47	0.75	0.33	0.63
8"	3-883-308S	209.13	3.15	1.06	1.71	0.31	0.16	0.13	0.50	1.37	0.43	0.67	0.47	0.87	0.37	0.75
10"	3-883-310S	250.36	3.74	1.28	2.03	0.50	0.16	0.13	0.75	1.56	0.55	0.79	0.55	1.06	0.47	0.87
12-1/2"	3-883-312S	332.84	4.33	1.46	2.17	0.50	0.16	0.13	0.75	1.87	0.51	0.79	0.51	1.25	0.51	1.00
15-3/4"	3-883-316S	441.82	5.04	1.65	2.54	0.50	0.16	0.24	0.75	2.25	0.71	1.02	0.67	1.50	0.53	1.12

Prices are subject to change without notice



Precision Backplates



PRECISION SCROLL CHUCK BACKPLATES AND SPARE PARTS

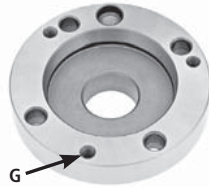
Fully Machined Type A Steel Backplates for Precision Accuracy Chucks

- Designed to mount on A1 and A2 American Standard spindles

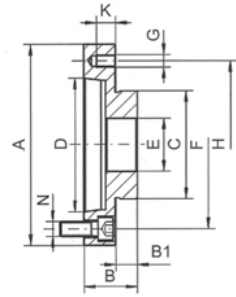
Spindle Nose



Type A



G



Chuck Dia	Part Number	Retail Price	Taper Size	A	D	E	F	C	H	Chuck Mounting Holes G	K	B1	B	Spindle Mounting Bolts N	Bolts Qty	Wt lbs
6-1/4"	3-874-065	130.50	A5	6.2992	3.252	1.6535	4.1260	3.3858	5.5118	M10x1.5	0.8268	0.6299	1.4567	7/16"-14	4	6.8
8"	3-874-085	143.25	A5	7.8740	4.189	2.1654	4.1260	4.3307	6.9291	M10x1.5	0.6299	0.7480	1.2992	7/16"-14	4	9.3
	3-874-086	168.75	A6				5.2520						1.1024	1.7717		
10"	3-874-105	207.00	A5	9.8425	3.252	2.9921	4.1260	5.7087	8.8189	M12x1.75	0.7480	0.7480	1.4961	7/16"-14	4	17.3
	3-874-106	207.00	A6		4.189		5.2520						1/2"-13	13.5		
12-1/2"	3-874-126	280.50	A6	12.4016	4.189	4.0551	5.2520	7.0866	11.2598	M16x2	0.7480	0.7480	1.4961	1/2"-13	4	27.3
	3-874-128	302.63	A8		5.500		6.7480						1.0630	1.8110		

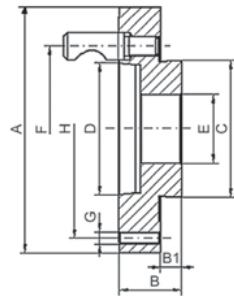
Fully Machined Type D1 Steel Backplates for Precision Accuracy Chucks

- Type D1 American Standard camlock spindles

Spindle Nose



Type D



Chuck Dia	Part Number	Retail Price	Taper Size	Stud Dia	Number of Studs	A	F	D	E	C	H	Chuck Mounting Holes G	B1	B	Wt lbs
5"	3-875-054	146.63	D1-4	5/8	3	4.9213	3.2520	2.5000	1.3780	2.1654	4.2520	M8x1.25	0.5512	1.5354	5.7
	3-875-056	162.75	D1-6	7/8	6	7.1260	5.2520	4.1890						1.8898	13
6-1/4"	3-875-063	165.75	D1-3	9/16	3	6.2992	2.7795	2.1260	1.6535	3.3858	5.5118	M10x1.5	0.6299	1.8110	10.8
	3-875-064	165.75	D1-4	5/8			3.2520	2.5000						9.9	
8"	3-875-084	184.88	D1-4	5/8	3	7.8740	3.2520	2.5000	2.1654	4.3307	6.9291	M10x1.5	0.6693	1.2992	10.4
	3-875-085	195.75	D1-5	3/4	6		4.1339	3.2520						1.8504	15.9
	3-875-086	184.88	D1-6	7/8	6		5.2520	4.1890						2.0079	17.6
10"	3-875-106	236.25	D1-6	7/8	6	9.8425	5.2520	4.1890	2.9921	5.7087	8.8189	M12x1.75	0.7480	2.0866	28.4
	3-875-108	253.50	D1-8	1			6.7520	5.5000						2.3622	32.4
12-1/4"	3-875-126	283.88	D1-6	7/8	6	12.4016	5.2520	4.1890	4.0551	7.0866	11.2598	M16x2	0.7480	1.4961	28.4
	3-875-128	406.13	D1-8	1			6.7520	5.5000						2.2441	47.8

Camlock Studs and Set Screws

- Sold by piece



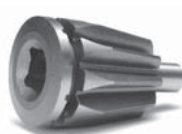
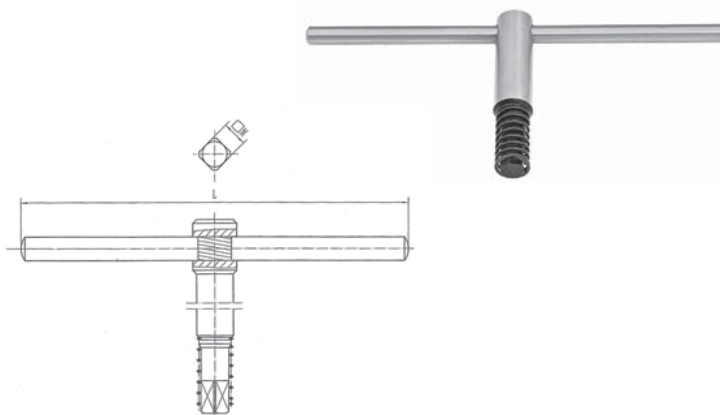
Taper Size	Camlock Studs			
	Part Number	Retail Price	Diameter	Thread
D1-4	3-899-104	11.39	5/8"	M10 x 1
D1-5	3-899-105	12.51	3/4"	M12 x 1
D1-6	3-899-106	14.25	7/8"	M16 x 1.5
D1-8	3-899-108	16.60	1"	M20 x 1.5
D1-11	3-899-111	22.75	1-3/16"	M22 x 1.5

Set Screw Part Number	Retail Price	Number of Studs
3-899-310	6.75	6

Prices are subject to change without notice

Spare Parts for Precision Forged Steel Scroll Chucks

Chuck Dia	Wrench			
	Part Number	Retail Price	Square Size	Length
5"	3-889-006	11.40	10	8.46
6-1/4"				
8"	3-889-008	13.30	12	7.87
10"	3-889-010	17.09	12	12.20
12"	3-889-012	20.89	14	12.40
15-1/4"	3-889-016	26.60	15	15.75



Chuck Dia	Scroll Plate	
	Part Number	Retail Price
5"	3-887-305S	129.60
6-1/4"	3-887-306S	135.49
8"	3-887-308S	209.13
10"	3-887-310S	273.93
12"	3-887-312S	435.93
15-1/4"	3-887-316S	530.18

Pinion	
Part Number	Retail Price
3-886-305S	35.44
3-886-306S	37.05
3-886-308S	40.91
3-886-310S	57.99
3-886-312S	68.24
3-886-316S	100.44

Pinion Screw	
Part Number	Retail Price
3-888-305S	23.83
3-888-306S	25.76
3-888-308S	27.43
3-888-310S	31.58
3-888-312S	32.60
3-888-316S	36.00

Prices are subject to change without notice

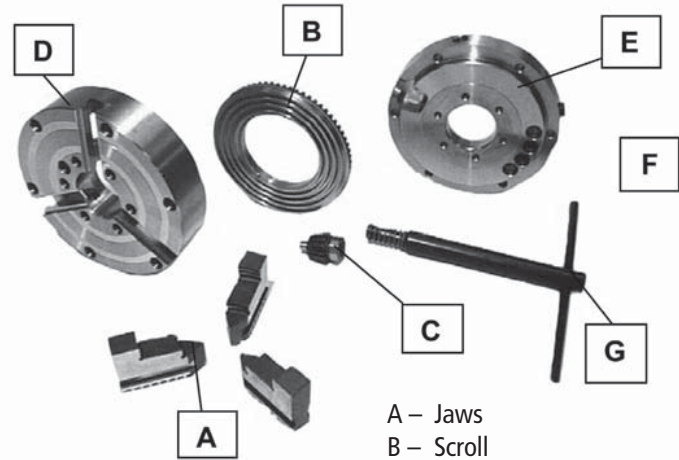


Universal Scroll Chucks



3-Jaw Universal Self-Centering Scroll Chucks

- TMX chucks can be used on all types of lathes, and different kinds of milling, drilling, and CNC attachments
- TMX chucks come with either American Standard two-piece tongue and groove jaws, or two sets of hard solid jaws, one OD and one ID
- Plain Back and Direct Mount
- Semi-Steel body
- Chuck body is made of high quality Cast Iron
All guideways and bearing surfaces are precisely machined
- Scroll plate is drop forged of fine Alloy Steel, and carefully case hardened, thread flanks are ground on both sides
- The jaw's teeth and guideways are hardened and fully ground on both sides
- Pinions are hardened and ground



- A – Jaws
- B – Scroll
- C – Pinion
- D – Front
- E – Back
- F – Adjusting Screws
- G – Operating Wrench

3-Jaw Scroll Chucks with Two-Piece Hard Reversible Jaws

TMX chucks are provided with:

- 1 Set of hard master jaws
- 1 Set of Hard Top Reversible Jaws
- 1 Self-ejecting chuck wrench
- 1 Set of mounting bolts
- 2 Hex keys
- Eye bolts provided with 12-1/2" and 15-3/4" chucks



Chuck Lifting Eye Bolt
12-1/2" and 15-3/4" only



Chuck Dia	Part Number	Retail Price	Hole Dia	RPM max	Wt lbs
6-1/4"	3-800-0600	279.00	1.7717	3000	19.4
8"	3-800-0800	337.00	2.5591	2500	34
10"	3-800-1000	499.00	3.1496	2000	57
12-1/2"	3-800-1200	779.00	4.0945	1500	104
15-3/4"	3-800-1600	1,269.00	5.3543	1200	157

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See below

TMX High Pressure Chuck Lubricant

TMX Chuck Lubricant	Part Number	Retail Price
16 oz	3-799-025	28.00



Prices are subject to change without notice

3-Jaw Scroll Chucks with Hard Solid Jaws

Chucks are provided with:

- 1 Set of hard solid ID jaws
- 1 Set of hard solid OD jaws
- 1 Self-ejecting wrench
- 1 Set of mounting bolts
- 1 Hex key for mounting bolts
- Eye bolts for chuck sizes 12-1/2" and 15-3/4"

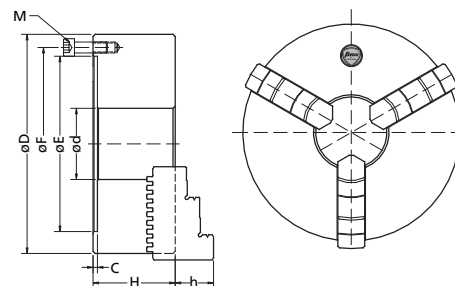


Chuck Dia	Part Number	Retail Price	Hole Dia	RPM max	Wt lbs
6-1/4"	3-810-0600	275.00	1.7717	3000	19.4
8"	3-810-0800	339.00	2.5591	2500	34
10"	3-810-1000	449.00	3.1496	2000	57
12-1/2"	3-810-1200	899.00	4.0945	1500	104
15-3/4"	3-810-1600	1,239.47	5.3543	1200	157

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 612

Principal Dimensions 3-Jaw Chucks

Chuck Dia D	E	F	d	H	h	C	Bolt Size M
	(H7)						
6-1/4"	4.9213	5.5118	1.7717	2.5591	1.7323	0.1575	6xM10
8"	6.2992	6.9291	2.5591	2.9528	1.8504		
10"	7.8740	8.8189	3.1496	3.1496	2.1457	0.1969	6xM12
12-1/2"	10.2362	11.2598	4.0945	3.5433	2.3031		6xM16
15-3/4"	12.9921	14.2520	5.3543	3.9370	2.6378		



Prices are subject to change without notice



Universal Scroll Chucks

TOOLMEX
Industrial Solutions

UNIVERSAL SCROLL CHUCKS

3-Jaw Chucks, Type A1 and A2, Direct Mount

2-Piece Hard Reversible Jaws

- All chucks with A1 mount can be installed on A1 spindle nose only
- All chucks with A2 mount can be installed on either A1 or A2 spindle nose

Standard Parts

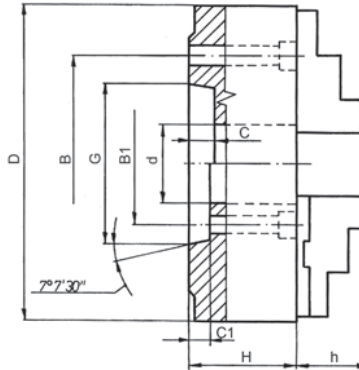
- 2-Piece hard reversible jaws
- 1 Self-ejecting wrench
- 1 Set of mounting bolts
- 1 Hex key for mounting bolts
- 1 Hex key for jaw bolts
- Eye bolts provided with 12-1/2" and 15-3/4" chucks



Type A1 Mount Bolt Hole Pattern



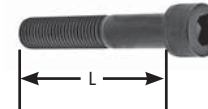
Type A2 Mount Bolt Hole Pattern



Spindle Nose



Type A



Chuck Dia D	Part Number	Retail Price	Taper Size	Hole Dia d	B (A2)	B1 (A1)	G	C	H	h	Chuck Mounting Bolts			RPM max	Wt lbs
											Thread	L	Qty		
8"	3-801-0816	469.79	A1-6	2.1654	—	3.2500	4.1880	0.6250	3.6220	1.8504	1/2-13	3-1/8	3	2500	42
10"	3-801-1016	659.00	A1-6	2.1654	—	3.2500	4.1880	0.6250	—	—	1/2-13	4-1/8	6	2000	71
12-1/2"	3-801-1216	929.00	A2-6	3.9370	5.2520	—	4.1880	0.6303	4.4094	2.3031	1/2-13	4-3/4		1500	121
	3-801-1218	929.00	A1-8	3.1496	—	4.3750	5.5008	0.6880			5/8-11	4-3/16			
15-3/4"	3-801-1619	1,399.00	A1-11	4.9213	—	6.5000	7.7507	0.7500	4.8031	2.6378	3/4-10	4-1/4		1000	203

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 612

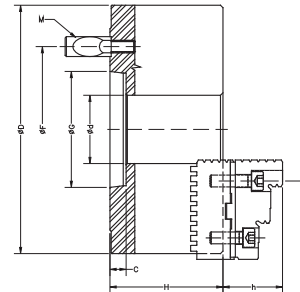
Prices are subject to change without notice

3-Jaw Chucks, Camlock Type D1, Direct Mount

2-Piece Hard Reversible Jaws

Standard Parts

- 2-Piece hard reversible jaws
- 1 Self-ejecting wrench
- 1 Set of mounting bolts
- 1 Hex key for mounting bolts
- 1 Hex key for jaw bolts
- Eye bolts provided with 12-1/2" and 15-3/4" chucks



Spindle Nose



Type D



D1-6 to D1-11



D1-4

Chuck Dia D	Part Number	Retail Price	Taper Size	Hole Dia d	F	G	C	H	h	Camlock Studs			RPM max	Wt lbs
										Diameter	Thread	Qty M		
6-1/4"	3-803-0634	376.55	D1-4	1.7717	3.2520	2.5005	0.5118	3.0709	1.7323	5/8	M10x1	3	3000	20
8"	3-803-0834	469.79	D1-4	2.1654	3.2520	2.5005	0.5118	3.6220	1.8504	5/8	M10x1	3	2500	42
	3-803-0836	469.79	D1-6		5.2520	4.1880				7/8	M16x1.5	6		
10"	3-803-1036	639.00	D1-6	3.1496	5.2520	4.1880	0.6299	3.8976	2.1457	7/8	M16x1.5	6	2000	71
	3-803-1038	639.00	D1-8		6.7480	5.5007				1	M20x1.5			
12-1/2"	3-803-1236	949.00	D1-6	3.9370	5.2520	4.1880	0.6299	4.4094	2.3031	7/8	M16x1.5	6	1500	112
	3-803-1238	949.00	D1-8		6.7480	5.5007				1	M20x1.5			
15-3/4"	3-803-1638	1,489.00	D1-8	5.3543	6.7480	5.5007	0.7087	4.8031	2.6378	1	M20x1.5	6	1000	223
	3-803-1639	1,489.00	D1-11		9.2520	7.7507				1-3/16	M22x1.5			

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 612

Camlock Studs and Set Screws

- Sold by piece



Taper Size	Camlock Studs			
	Part Number	Retail Price	Diameter	Thread
D1-4	3-899-104	11.39	5/8"	M10 x 1
D1-5	3-899-105	12.51	3/4"	M12 x 1
D1-6	3-899-106	14.25	7/8"	M16 x 1.5
D1-8	3-899-108	16.60	1"	M20 x 1.5
D1-11	3-899-111	22.75	1-3/16"	M22 x 1.5

Set Screw	Retail Price	Number of Studs
3-899-305	6.25	3
3-899-310	6.75	6

Prices are subject to change without notice



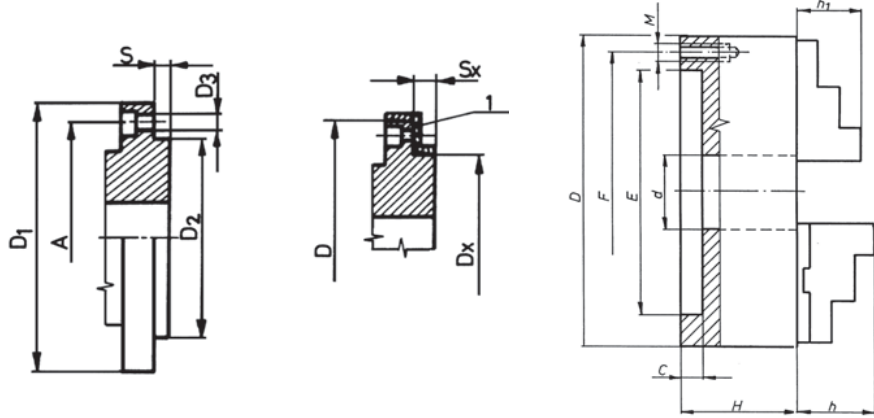
Universal Backplates

TOOLMEX
Industrial Solutions

UNIVERSAL SCROLL CHUCK BACKPLATES

TMX Principal Mounting Dimensions for Toolmex Backplates

- After selecting a suitable backplate for the lathe, mount it onto the spindle nose of the lathe
- Proper mounting is very important in order to secure concentricity between the lathe's spindle and the chuck
- The back of the lathe chuck has a counterbore diameter, E, finished in H7 class, with depth, C
- Prior to machining the backplate, accurately measure the chuck's counterbore diameter, E, and depth, C
- A good press fit, H6/k5, is most desirable
- To ensure satisfactory concentricity, it is important that this procedure is done accurately

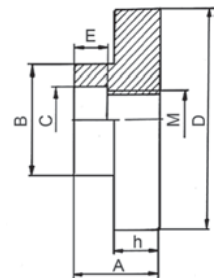


See full back plate machining instructions on page 411

Chuck Dia	A = F	D	D1	D3	D2	E (H7)	Dx (k5)	S*	Sx**	C
5"	4.2520	4.9213	4.9409	0.3307	3.8189	3.7402	3.7402	0.1181	0.1378	0.1575
6-1/4"	5.5118	6.2992	6.3189	0.4134	5.0000	4.9213	4.9213			
8"	6.9291	7.8740	7.9134	0.5118	6.3780	6.2992	6.2992			
10"	8.8189	9.8425	9.8819	0.6693	7.9528	7.8740	7.8740	0.1575	0.1772	0.1969
12-1/2"	11.2598	12.4016	12.4409		10.3150	10.2362	10.2362			
15-3/4"	14.2520	15.7480	15.8268		13.1102	12.9221	12.9221			

* S = length of the boss of the supplied backplate
 ** Sx = length of the boss after machining

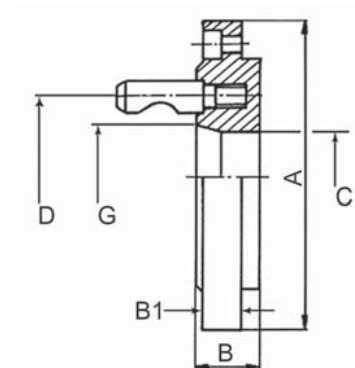
Semi-Finished Threaded Backplates for Scroll Chucks with Threaded Spindles



Chuck Dia	Thread M	Part Number	Retail Price	A	B	C	D	h	E	Wt lbs
5"	1-1/2"-8	3-871-052	60.75	1.535	2.677	1.514	5.079	0.709	0.5	9.9
6-1/4"	1-1/2"-8	3-871-062	67.28	1.535	3.189	1.514	6.535	0.787	0.5	11.9
	2-1/4"-8	3-871-063	67.28	1.791		2.26			0.626	
8"	2-1/4"-8	3-871-083	77.63	1.791	3.583	2.26	8.11	0.866	0.626	13

Prices are subject to change without notice

Fully Machined Type D1 Backplates



Chuck Dia	Taper Size	Part Number	Retail Price	Stud Dia	Number of Studs	Hole Dia C	D	G	A	B	B1	Wt lbs
5"	D1-4	3-878-054	100.88	5/8	3	2.40	3.25	2.50	4.92	1.02	0.87	5.3
	D1-6	3-878-056	97.50	7/8	6	3.13	5.25	4.19	7.09	1.61	1.43	11.5
6-1/4"	D1-4	3-878-064	119.25	5/8	3	2.40	3.25	2.50	6.30	1.06	0.71	9.5
8"	D1-4	3-878-084	136.50	5/8	3	2.40	3.25	2.50	7.87	1.06	0.71	15.4
	D1-6	3-878-086	136.50	7/8	6	4.06	5.25	4.19		1.44	1.26	15.4
10"	D1-6	3-878-106	171.00	7/8	6	4.06	5.25	4.19	9.84	1.44	0.87	24.3
	D1-8	3-878-108	176.63	1		5.35	6.75	5.50		1.54	1.36	39.7
12-1/2"	D1-6	3-878-126	226.13	7/8	6	4.06	5.25	4.19	12.40	1.56	0.94	39.7
	D1-8	3-878-128	235.13	1		5.35	6.75	5.50		1.65	0.94	

Camlock Studs and Set Screws

- Sold by piece



Taper Size	Camlock Studs			
	Part Number	Retail Price	Diameter	Thread
D1-4	3-899-104	11.39	5/8"	M10 x 1
D1-5	3-899-105	12.51	3/4"	M12 x 1
D1-6	3-899-106	14.25	7/8"	M16 x 1.5
D1-8	3-899-108	16.60	1"	M20 x 1.5
D1-11	3-899-111	22.75	1-3/16"	M22 x 1.5

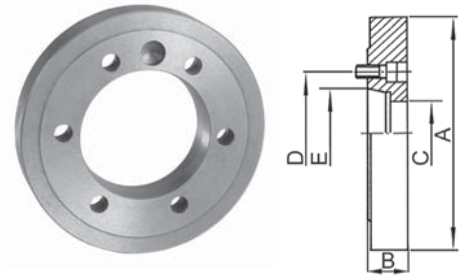
Set Screw	Retail Price	Number of Studs
Part Number		
3-899-305	6.25	3
3-899-310	6.75	6

Prices are subject to change without notice



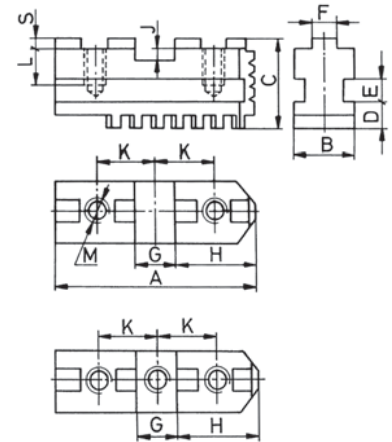
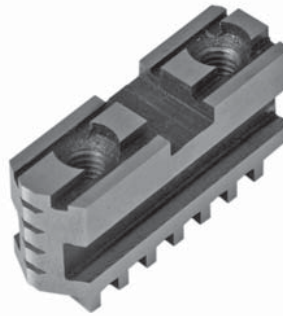
Semi-Machined Type A1/A2 Backplates

Chuck Dia	Taper Size	Part Number	Retail Price	A	B	C	D	E	Wt lbs
6-1/4"	A-5	3-873-065	99.75	6.4	1	3.13	4.125	3.25	6.5
8"	A-5	3-873-085	117.00	7.99	1.5	1.50	4.125	3.25	19
	A-6	3-873-086	117.00	7.99	1.3	1.50	5.252	4.19	15.5
10"	A-6	3-873-106	151.50	9.96	1.3	3.17	0.207	4.19	38
	A-8	3-873-108	162.38	9.96	1.97	3.17	6.75	5.50	33
12-1/2"	A-6	3-873-126	200.25	12.52	1.3	4.06	5.252	4.19	45
	A-8	3-873-128	213.38	12.52	2.17	4.06	6.75	5.50	62



Hard Master Jaws

- American Standard tongue and groove jaws
- Sold in 3 piece sets



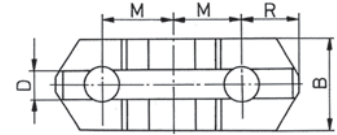
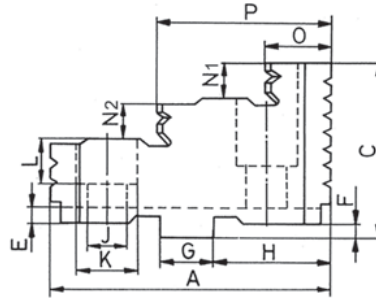
Chuck Dia	Part Number	K	H	G	F	J	L	D	E	B	A	S	Thread M	C	Wt lbs
6-1/4"	3-885-306	0.0294	1.1260	0.4996	0.3126	0.1575	0.6299	0.3543	0.3937	0.7874	2.5591	0.1181	3/8"-16	0.0511	0.08
8"	3-885-308	0.0344	1.3799				0.7087	0.3937		0.9843	3.1496			0.0543	0.14
10"	3-885-310	0.0419	1.5669	0.8268	0.4724		1.1024	3.7402	0.0589	0.22					
12-1/2"	3-885-312	0.0492	1.8740	0.7496	0.5000	0.2756	0.9449	0.5315	0.5118	1.2598	4.4882	1/2"-13	0.0666	0.35	
15-3/4"	3-885-316	0.0591	2.2500			1.4173	5.1181			0.0713	0.50				

Chuck Dia	Part Number	Retail Price
6-1/4"	3-885-306	114.82
8"	3-885-308	123.45
10"	3-885-310	185.91
12-1/2"	3-885-312	366.21
15-3/4"	3-885-316	424.70

Prices are subject to change without notice

Hard Top Jaws for 3-Jaw Scroll Chucks

- American Standard tongue and groove jaws
- Sold in 3 piece sets

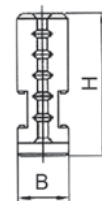
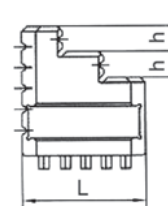
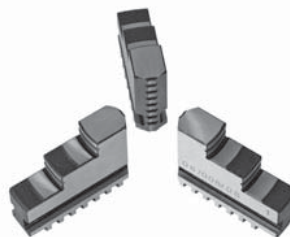


Chuck Dia	Part Number	M	H	G	J	K	L	D	E	F	N1	N2	C	B	A	O	P	Q	Wt lbs
6-1/4"	3-883-306	0.7480	1.1260	0.4996	0.4173	0.6496	0.4331	0.3126	0.1575	0.1181	0.3150	0.3543	1.6142	0.9843	2.6378	0.7047	1.6063	0.8268	0.12
8"	3-883-308	0.8740	1.3799				0.5118				0.3543	0.3937	1.7717	1.0630	3.1496	0.8465	2.0079	0.9449	0.16
10"	3-883-310	1.0630	1.5669	0.7496	0.5394	0.8268	0.5512	0.5000	0.1575	0.1181	0.4528	0.4921	2.0276	1.2992	3.8189	0.9724	2.3228	1.0039	0.28
12-1/2"	3-883-312	1.2500	1.8740				0.5906				0.4921	0.5315	2.1654	1.4567	4.3307	1.0354	2.6811	1.1024	0.41
15-3/4"	3-883-316	1.5000	2.2500	0.6890	1.0236	0.7283	0.7283	0.5000	0.2362	0.5315	0.5709	2.5394	1.6535	5.0000	0.9567	2.9724	1.2795	0.61	

Chuck Dia	Part Number	Retail Price
6-1/4"	3-883-306	82.06
8"	3-883-308	90.33
10"	3-883-310	122.42
12-1/2"	3-883-312	300.73
15-3/4"	3-883-316	325.25

ID Hard Solid Jaws for 3-Jaw Scroll Chuck

- Sold in 3 piece sets



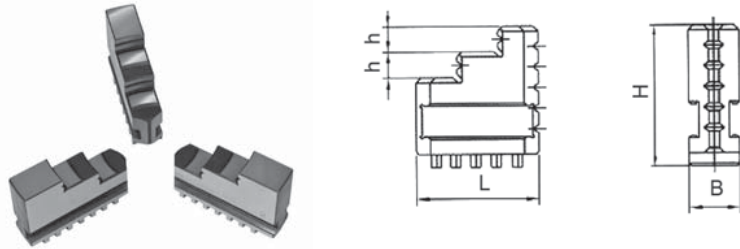
Chuck Dia	Part Number	Retail Price	L	B	H	h
6-1/4"	3-881-306	98.58	2.756	0.787	2.126	0.4724
8"	3-881-308	106.88	3.347	0.984	2.402	
10"	3-881-310	156.18	4.134	1.102	2.717	
12-1/2"	3-881-312	306.36	4.921	1.260	2.953	0.7087
15-3/4"	3-881-316	374.95	5.709	1.417	3.622	

Prices are subject to change without notice



OD Hard Solid Jaws for 3-Jaw Scroll Chuck

- Sold in 3 piece sets



ChuckDia	Part Number	Retail Price	L	B	H	h
6-1/4"	3-880-306	98.61	2.756	0.787	2.126	0.4724
8"	3-880-308	106.88	3.347	0.984	2.402	
10"	3-880-310	156.21	4.134	1.102	2.717	
12-1/2"	3-880-312	306.36	4.921	1.260	2.953	0.7087
15-3/4"	3-880-316	374.95	5.709	1.417	3.622	

Spare Parts for 3-Jaw Chucks with Semi-Steel Body

- Sold by the piece
- OD = outside diameter
- L = overall length



Chuck Dia	Scroll		
	Part Number	Retail Price	OD
6-1/4"	3-887-306	46.67	4.8031
8"	3-887-308	57.61	6.1811
10"	3-887-310	90.33	7.7559
12-1/2"	3-887-312	175.03	10.1181
15-3/4"	3-887-316	278.60	12.6772

Pinion	
Part Number	Retail Price
3-886-306	29.76
3-886-308	34.27
3-886-310	39.91
3-886-312	56.09
3-886-316	74.80



Chuck Dia	Wrench	
	Part Number	Retail Price
6-1/4"	3-889-306	11.40
8"	3-889-308	13.30
10"	3-889-310	17.09
12-1/2"	3-889-312	20.89
15-3/4"	3-889-316	26.60

Pinion Screw	
Part Number	Retail Price
3-888-306	1.50
3-888-308	2.16
3-888-312	2.52

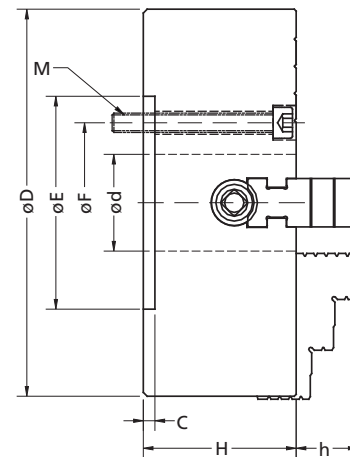


Prices are subject to change without notice

4-Jaw Semi-Steel Body Plain Back Chucks with Solid Jaws

Chucks are provided with hard solid reversible jaws
Jaws are made of high quality Steel and are hardened

- 1 Set of hard solid reversible jaws
- 1 Self-ejecting wrench
- 1 Set of mounting bolts
- 1 Hex key for mounting bolts
- Eye bolts provided with 12-1/2" to 20" chucks



Chuck Dia D	Part Number	Retail Price	E	F	d	H	h	C	Bolt Size M	RPM max	Wt lbs
6-1/4"	3-850-0600	159.00	3.2500	2.7500	1.7717	2.9528	.7874	0.1969	4xM10	2500	17
8"	3-850-0800	180.30	4.3307	3.2520	2.2047	3.1496	1.5866	0.2362		2000	32
10"	3-850-1000	243.88	5.9055	4.1260	2.9528	3.5433			1.9606	0.3150	1600
12-1/2"	3-850-1200	374.67	6.8898	5.2520	3.7402	3.7402	2.3453	4xM16			1200
15-3/4"	3-850-1600	579.00	7.8740	6.7480	4.9213	4.1339		0.3150	4xM20	1000	121
20"	3-850-2000	1,115.00	10.6299	9.2520	6.2992	4.7244				800	225

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See below

TMX High Pressure Chuck Lubricant

TMX Chuck Lubricant	Part Number	Retail Price
16 oz	3-799-025	28.00



Prices are subject to change without notice

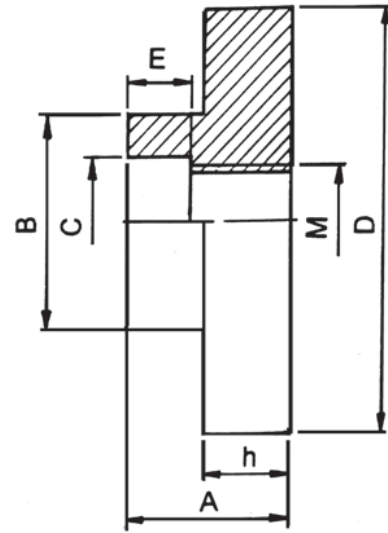
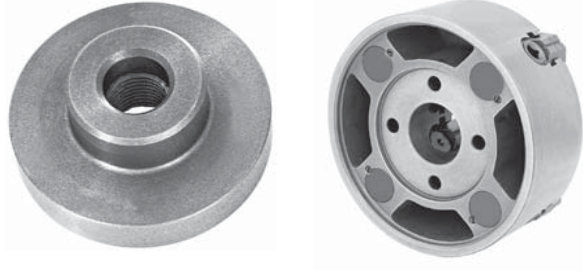


Independent Backplates

TOOLMEX
Industrial Solutions

INDEPENDENT CHUCK BACKPLATES

Semi-Finished Threaded Backplates

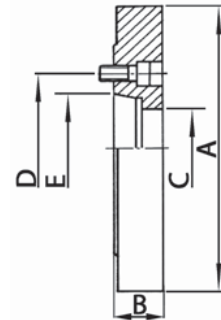


Recommended Chuck Dia	Thread M	Part Number	Retail Price	A	B	C	D	h	E	Wt lbs
6" to 8"	1-1/2"-8	3-871-052	60.75	1.535	2.677	1.514	5.079	0.709	0.5	9.9
8"	1-1/2"-8	3-871-062	67.28		3.189		6.535			11.9
6-1/4"	2-1/4"-8	3-871-063	67.28	1.791	3.583	2.26	8.11	0.866	0.626	13
10"	2-1/4"-8	3-871-083	77.63							

Prices are subject to change without notice

Semi-Machined Type A1/A2 Backplates

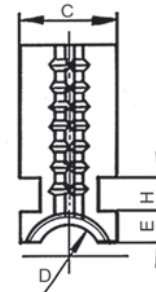
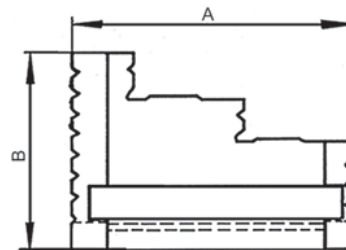
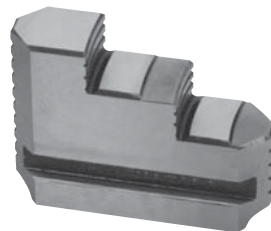
- For plain back chucks
- Designed for direct mounting on A1 and A2 spindle nose
- May be used for both scroll and independent chucks
- See mounting instructions on page 411



Recommended Chuck Dia	Taper Size	Part Number	Retail Price	A	B	C	D	E	Wt lbs
10"	A-5	3-873-085	117.00	7.99	1.5	2.17	4.125	3.2503	19
10" to 12-1/2"	A-6	3-873-086	117.00	7.99	1.3	2.17	5.25	4.1878	15.5
15-3/4"	A-6	3-873-106	151.50	9.96	1.3	3.17	5.25	4.1878	38
	A-8	3-873-108	162.38	9.96	1.97	3.17	6.75	5.5	33
20"	A-6	3-873-126	200.25	12.52	1.3	4.06	5.25	4.1878	45
20"-25"	A-8	3-873-128	213.38	12.52	2.17	4.06	6.75	5.50055	62

Hard Solid Jaws

- Sold in 4 piece sets



Chuck Dia	Part Number	Retail Price	A	B	C	D Thread	H	E
6-1/4"	3-890-106	135.38	2.3622	2.0866	0.7874	22 x 4	0.3937	0.2953
8"	3-890-108	168.00	3.3465	2.3622	1.0630	24 x 4	0.3937	0.3937
10"	3-890-110	196.50	3.4252	2.4409				0.4528
12-1/2"	3-890-112	240.00	4.3307	3.0315	1.3386	32 x 6	0.5118	0.5512
15-3/4"	3-890-116	340.88	4.7244	3.1890	1.4961			
20"	3-890-120	475.50	5.7087	3.7402	1.7717	36 x 6	0.6299	0.6299

Prices are subject to change without notice



TMX Spare Parts

- Sold by the piece

Chuck Dia	Operating Screw			
	Part Number	Retail Price	OD	L
6-1/4"	3-890-606	20.18	0.8661	2.2047
8"	3-890-608	20.18	0.9449	2.9134
10"	3-890-610	22.43		3.5433
12-1/2"	3-890-612	24.60	1.2598	4.3307
15-3/4"	3-890-616	30.30		5.3150
20"	3-890-620	40.35	1.4173	6.4961



Chuck Dia	Thrust Bearing			
	Part Number	Retail Price	OD	L
6-1/4"	3-890-706	11.33	0.8268	1.2992
8"	3-890-708	12.60	0.9055	1.6535
10"	3-890-710	14.18		1.9291
12-1/2"	3-890-712	18.00	1.2598	2.0079
15-3/4"	3-890-716	21.45		2.2047
20"	3-890-720	25.88	1.4173	2.3228



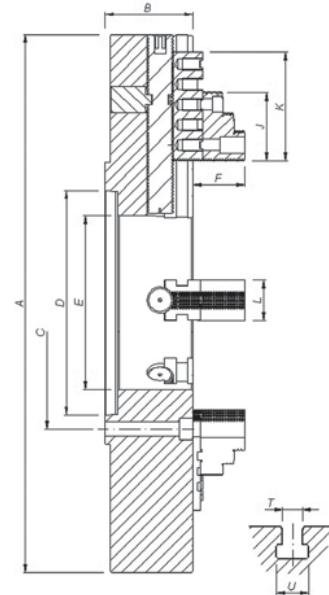
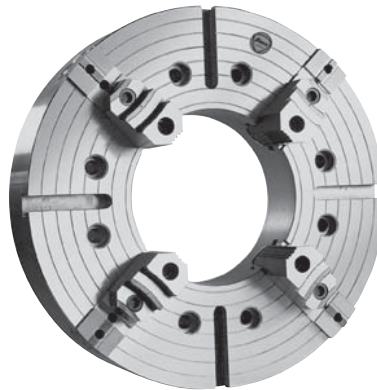
Chuck Dia	Wrench	
	Part Number	Retail Price
6-1/4"	3-889-006	15.15
8"	3-889-010	16.43
10"		
12-1/2"	3-889-012	20.78
15-3/4"	3-889-016	28.43
20"	3-889-020	43.58



Prices are subject to change without notice

4-Jaw Independent Extra Heavy Duty Oil Country Chucks with Extra Large Thru Hole

- Forged Steel Body
- Extra heavy duty American Standard Hard Top and Master Jaws
- Gripping surfaces serrated for more holding power
- Large Thru-hole
- Direct "A" type Mount



Part Number	Retail Price	Chuck Dia A		Taper	Max Speed RPM	Max Torque on Key lbt*ft	Gripping Force lbf	Wt lbs	D	Hole Dia E	C	B	K	F	L	T	U	
		mm	in															
3-859-2033	On Request	530	21	A2-11	1150	368.8	28101.1	463.0	7.7480	6.5748	9.2520	5.7480	6.4961	3.2677	2.3622			
3-859-2043				11.2520					13.0000									
3-859-2543		600	24	A2-15	970	442.5	33721.3	661.4	11.2520	10.5118	13.0000	6.1024						
3-859-2550				16.2520					18.2520									
3-859-2555		700	28	A2-15	873			826.7	11.2520	10.5118	13.0000							
3-859-2845				16.2520					18.2520									
3-859-2853		800	32	A2-15	764	516.3	42713.7	1190.5	11.2520	10.5118	13.0000	6.4961	7.9921	3.6220	2.9528	0.8661	1.5748	
3-859-3243				16.2520					18.2520									
3-859-3255				12.5														
3-859-3257				14.5														
3-859-3258		900	36	A2-20	679			1543.2	11.2520	10.5118	13.0000							
3-859-3615				16.2520					18.2520									
3-859-3620		1000	40	A2-15	611			1807.8	11.2520	10.5118	13.0000							
3-859-4043				16.2520					18.2520									
3-859-4053				12.5197					18.2520									
3-859-4063				A2-28														

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See below

TMX High Pressure Chuck Lubricant

TMX Chuck Lubricant	Part Number	Retail Price
16 oz	3-799-025	28.00

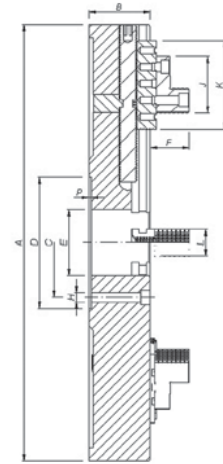
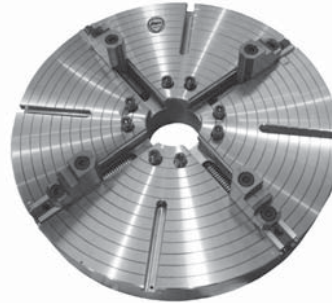


Prices are subject to change without notice



4-Jaw Independent Chucks with Steel Body and Two Piece Jaws

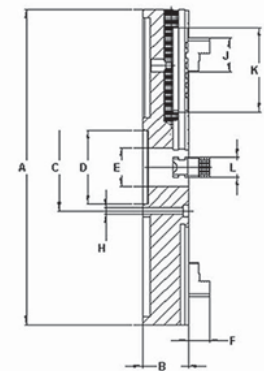
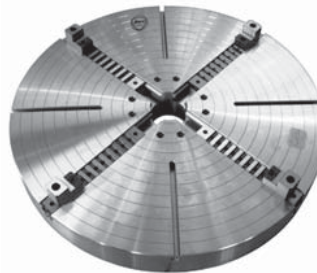
- Steel body
- Two piece jaws made according to ASA norm
- Operating screws hardened and ground
- "T" slots for 20 inches and above



Part Number	Retail Price	Chuck Dia A		Max Speed	Max Torque on Key	Gripping Force	Wt	Max Clamping	Min Clamping	B	C	D	E	F	G	J	L	K	
		mm	in																inches
3-855-2000	On Request	500	20	1222	265.5	17984.7	277.8	19.6850	0.7874	3.1496	8.6614	9.8425	3.9370	3.3976	6.4961	5	2.9528	2.3622	11.0236
3-855-2500		600	25	970	368.8	31473.2	449.7	23.6220	3.9370	4.7244			4.7244	3.2953	6.8898			13.7795	
3-855-2800		700	28	873	442.5	35969.4	716.5	27.5591	4.9213	5.3150			5.5118	5.9055	16.7323				
3-855-3200		800	32	764			992.1	31.4961	5.3150	5.5118	5.9055	20.0787							
3-855-3600		900	36	679	516.3	49458	1355.8	35.4331	2.1654	5.5118	9.8425	11.8110	6.2992	3.5039	7.8740	5	3.5433	21.6535	
3-855-4000		1000	40	611			1741.6	39.3701		5.5118	5.9055	25.5906							
3-855-4800		1200	48	509			2303.8	47.2441	5.7087	6.2992	3.5039	7.8740	21.6535						
3-855-6000		1500	60	407	4321.0	59.0551	59.0551	59.0551	6.4961	6.4961	9.8425	11.8110	6.2992	3.5039	7.8740	5	3.5433	25.5906	

4-Jaw Independent Heavy Duty Chucks with Steel Body and Two Piece Jaws

- Steel body
- Two piece jaws made according to ASA norm
- Operating screws hardened and ground
- "T" slots for 20 inches and above



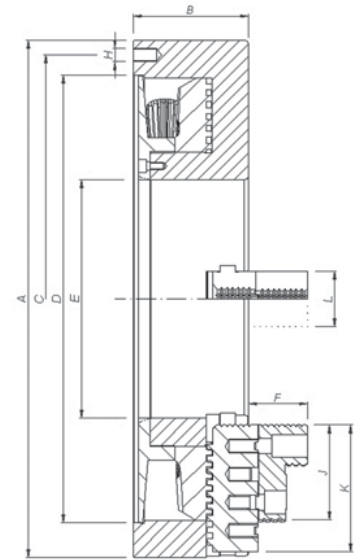
Part Number	Retail Price	Chuck Dia A		Max Speed	Max Torque on Key	Gripping Force	Wt	Max Clamping	Min Clamping	B	C	D	E	F	J	L	K	
		mm	in															inches
3-858-3200	On Request	800	32	764	516.3	47210	1124.3	31.4961	2.1654	5.3150	–	–	5.3150	2.8740	5	2.9528	2.3622	11.0236
3-858-3600		900	36	679		51706	1377.9	35.4331		5.3150	–	–	5.5118	13.7795				
3-858-4000		1000	40	611	663.8	56202	1873.9	39.3701	2.9528	5.5118	–	–	5.9055	3.0709	5	2.9528	16.7323	
3-858-4800		1200	48	509			2645.5	47.2441		6.2992	–	–	6.2992					20.0787
3-858-5200		1300	48	470			–	–	–	–	–	–	–	–	–	–	–	–
3-858-5600		1400	56	437	3968.3	55.1181	55.1181	55.1181	5.5118	–	–	–	–	–	–	–	–	–
3-858-6000		1500	60	407	4938.3	59.0551	59.0551	59.0551	7.2835	–	–	–	–	–	–	–	–	–

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 625

Prices are subject to change without notice

3-Jaw Self-Centering Extra Heavy Duty Oil Country Chucks

- Forged Steel Body
- Extra heavy duty American Standard Hard Top and Master Jaws
- Gripping surfaces serrated for more holding power
- Large Thru-hole
- Direct "A" type Mount



Part Number	Retail Price	Chuck Dia A		Taper	Max Speed RPM	Max Torque on Key lbf*ft	Gripping Force lbf	Wt lbs	D	E	C	B	F	L	K
		mm	in												
3-825-2025	On Request	500	20	A2-15	1222	177.0	20232.8	507.1	11.2520	7.8740	9.7480	6.3386	3.2677	2.3622	6.4961
3-825-2515		630	25	A2-15	970.0	191.8	20682.4	650.4	11.2520	11.0236	13.0000	6.6142			
3-825-2520				A2-20					16.2520	12.5197	14.5000	6.6929			
3-825-2815		700	28	A2-15	873.0	516.3	26302.6	815.7	11.2520	11.0236	13.0000	6.8110	3.6220	2.9528	8.5827
3-825-2820				A2-20					16.2520	12.5197	14.5000	6.8898			
3-825-3215		800	32	A2-15	764.0		27651.5	992.1	11.2520	11.0236	13.0000	7.0079	3.6220	2.9528	9.8425
3-825-3220				A2-20					16.2520	14.5669	18.2520	7.0866			
3-825-3615		900	36	A2-15	679.0		28101.1	1433.0	11.2520	11.0236	13.0000	7.4803	3.6220	2.9528	9.8425
3-825-3620				A2-20					16.2520	14.5669	18.2520	7.4803			
3-825-4020		1000	40	A2-20	611.0		28101.1	1719.6	16.2520	16.0236	18.2520	7.4803	3.6220	2.9528	9.8425
3-825-4028				A2-28					23.0020	18.5039	25.4961	7.6378			

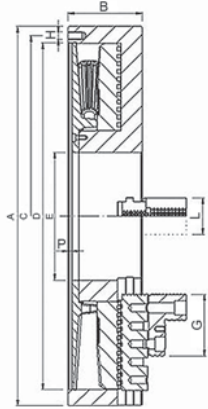
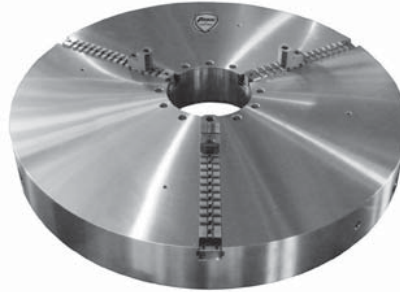
For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 625

Prices are subject to change without notice



3-Jaw Self-Centering Chucks with Steel Body and Two-Piece Reversible Jaws

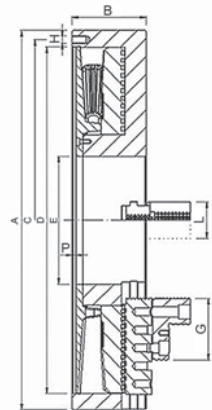
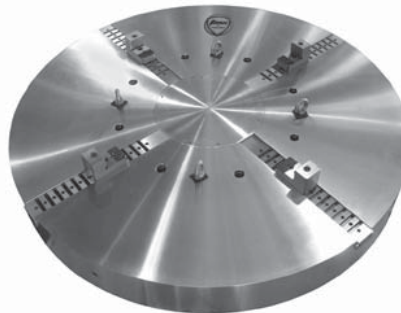
- Steel Body
- Less friction between jaw and guide
- Greater Clamping force
- Less wear due to direct pressure



Part Number	Retail Price	Chuck Dia A		Max Speed RPM	Max Torque on Key lbt*ft	Gripping Force lbf	Wt lbs	Max Clamping	Min Clamping	B	C	D	E max	F	G	H	L	P
		mm	in															
3-820-2800	On Request	700	28	873	516.3	26302.6	738.5	27.5591	3.3465	5.7087	25.9843	24.8031	8.8583	3.2283	8.5827	6xM20	2.3622	0.3150
3-820-3600		900	36	679												6xM22		
3-820-4000		1000	40	611												6xM24		
3-820-4800		1200	48	509												6xM24		
3-820-5500		1400	55	437												6xM24		
3-820-6300		1600	63	382												6xM24		

4-Jaw Self-Centering Chucks with Steel Body and Two-Piece Reversible Jaws

- Steel Body
- Less friction between jaw and guide
- Greater Clamping force
- Less wear due to direct pressure



Part Number	Retail Price	Chuck Dia A		Max Speed RPM	Max Torque on Key lbt*ft	Gripping Force lbf	Wt lbs	Max Clamping	Min Clamping	B	C	D	E max	F	G	H	L	P
		mm	in															
3-841-2800	On Request	700	28	873	516.3	26302.6	751.8	27.5591	3.3465	5.7087	25.9843	24.8031	8.8583	3.2283	8.5827	6xM20	2.3622	0.3150
3-841-3200		800	32	764												6xM22		
3-841-3600		900	36	679												6xM24		
3-841-4000		1000	40	611												6xM24		
3-841-4800		1200	48	509												6xM24		
3-841-5500		1600	48	382												6xM30		

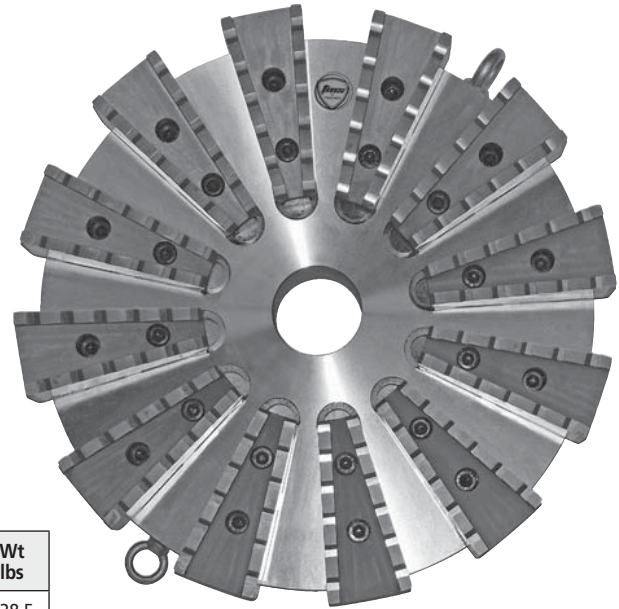
For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 625

Prices are subject to change without notice

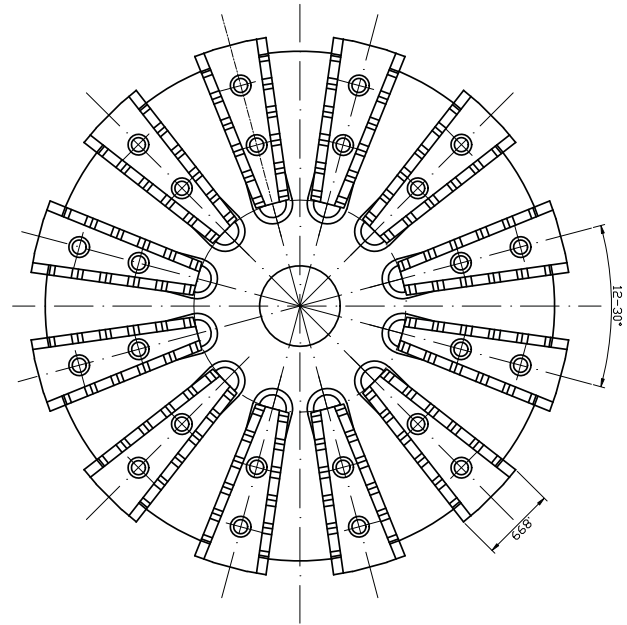
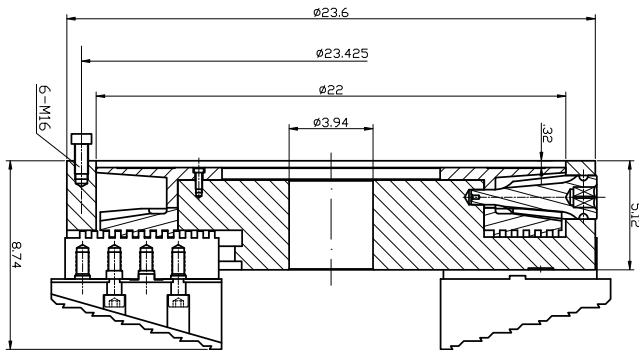
TMX 12-Jaw Manual Chuck **NEW!**

Specifications

- Chuck Height: 222mm (8.74")
- Chuck OD: 630mm (25")
- Net Weight: 335KG (738.5 lb)
- Max rpm: 300r/min
- Hold Max. Weight: 500KG (1102.3 lb) Standard Jaw
- Max Griping Force: 72KN (16186.2 lb)
- Clamping Range: OD: 370-790mm (14.57" ~31.1")
ID: 300-720mm (11.81" ~28.35")
- Master Jaw Size: Width: 50mm (1.97"),
Length: 183mm (7.2")
- Clamp: Min. 2mm (.079") wall thickness tubing
- Accuracy (run out): OD Clamping: .012"
ID Clamping: .012"



Chuck Dia	Part Number	Retail Price	Chuck Height	Max RPM	Max Griping Force	Wt lbs
25"	3-996-2512	Project based pricing	8.74"	300r/min	16186.2lb	738.5



Prices are subject to change without notice



Spindle Nose with A1/A2 Mount

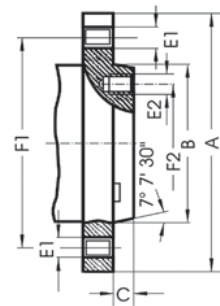
Selecting the chuck mounting:

- Choose from the types below
- For the short taper spindle nose Types A and D measure the pilot diameter and length (dimensions B and C), bolt circle diameter (dimensions F1 and F2) and diameter of the holes (dimensions E1 and E2)
- In the case of A type mount check the number of bolt circles (one for A2 mount, or two for A1 mount)
- Chucks with an A1 mount can only be installed on an A1 spindle nose
- Chucks with an A2 mount can be installed on either an A1 or A2 spindle nose



Spindle Type A1 and A2 Mount

Spindle Nose	F1	F2	B	C max	Thread E1 = E2 UNC-3B
A-4	3.2500	–	2.5005 +.0005	.4375	7/16 - 14
A-5	4.1250	2.4374	3.2505 +.0005	.5625	7/16 - 14
A-6	5.2500	3.2500	4.1880 +.0005	.6250	1/2 - 13
A-8	6.7500	4.3750	5.50075 +.0005	.6875	5/8 - 11
A-11	9.2500	6.5000	7.75075 +.0005	.7500	3/4 - 10
A-15	13.0000	9.7500	11.251 +.001	.8125	7/8 - 9
A-20	18.2500	14.5000	16.251 +.001	.8750	1 - 8



- Type A1 is exactly as shown with tapped holes in both inner and outer bolt circles
- Type A2 is as shown except without holes in the inner bolt circle

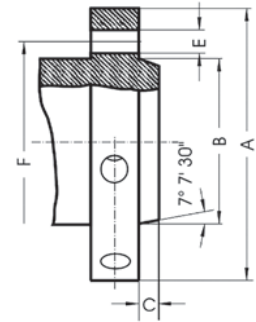
Prices are subject to change without notice

Spindle Nose with D1 Mount



Camlock Spindle Type D1 Mount

Spindle Nose	A	F	B	C max	E	Number of Holes
D1-3	3.622	2.7820	2.1250 +.00025	.4375	.5937	3
D1-4	4.606	3.2500	2.5005 +.0005	.4375	.6562	3
D1-5	5.748	4.1250	3.2505 +.0005	.5000	.8750	6
D1-6	7.126	5.2500	4.1880 +.0005	.5625	1.000	6
D1-8	8.858	6.7500	5.50075+.0005	.6250	1.125	6
D1-11	11.732	9.2520	7.75075 +.0005	.6875	1.250	6
D1-15	15.866	13.0000	11.251 +.001	.7500	1.375	6



Important: The camlock stud length is adjustable to suit the spindle camlock
Refer to page 613 for a full selection of camlock back plates

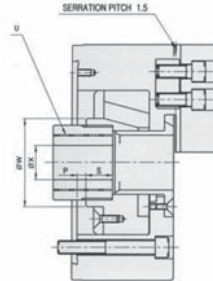


Power Chucks

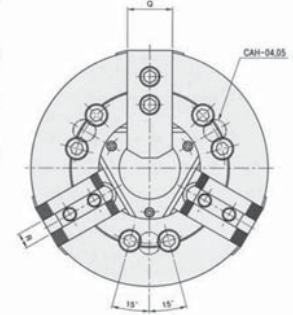
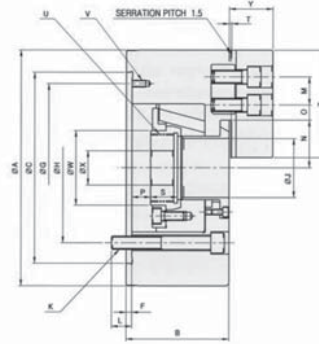
TOOLMEX
Industrial Solutions

POWER CHUCKS

3-Jaw Large Thru-Hole Plain Back Chucks **NEW!**



5"



6", 8", 10", 12", 15", 18", 21", 24"

Chuck Dia	Part Number	Retail Price	Thru Hole	Jaw Stroke	Plunger Stroke	Gripping Dia Max	Gripping Dia Min	Max Permissible Input Force	Max Static Gripping Force	Max Speed	Wt	Moment of Inertia
5"	3-780-0500	982.00	1.2992	0.2126	0.3937	5.3150	0.3937	3933	8093	7000	14.8	0.0145
6"	3-780-0600	1,372.55	1.8110	0.2165	0.5118	6.6535	0.5118	5512	14167	6000	27.6	0.0512
8"	3-780-0800	1,686.27	2.0472	0.2992	0.7087	8.2677	0.4331	8995	21159	5000	49.2	0.1454
10"	3-780-1000	2,117.65	3.0315	0.3346	0.7874	10.0000	1.2205	11244	28088	4200	76.1	0.2642
12"	3-780-1200	3,254.90	3.5827	0.4016	0.9449	11.9685	1.3386	13043	33071	3300	121.9	0.6267
15"	3-780-1500	4,513.73	4.6457	0.4173	0.9055	15.0000	1.1811	15962	40467	2500	264.6	1.9539
18"	3-780-1800	7,467.53				17.7165				2000	361.6	3.9120
21"	3-780-2100	10,389.61	5.5118	0.4094	0.9055	20.8661	3.4252	20233	52606	1700	518.1	7.5782
24"	3-780-2400	12,987.01	6.4961			24.0157	4.3307			1400	645.9	13.5998

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 625

Chuck Dia	Matching Cylinder Part Number	Retail Price	Matching Hard Jaw Part Number	Retail Price	Matching Soft Jaw Part Number	Retail Price
5"	3-797-050	On Request	3-787-305	On Request	3-788-305	94.00
6"	3-797-060	1,779.68	3-787-306		3-788-306	113.40
8"	3-797-080	2,277.52	3-787-308		3-788-308	134.14
10"	3-797-100	3,085.04	3-787-310		3-788-310	167.67
12"	3-797-120	4,190.48	3-787-312		3-788-312	223.56
15"	3-797-150	7,859.60	3-787-315		3-788-315	447.12
18"			3-787-321		3-788-321	655.00
21"						
24"						

TMX part number series 3-780 and 3-781 are interchangeable with Kitagawa B200 series

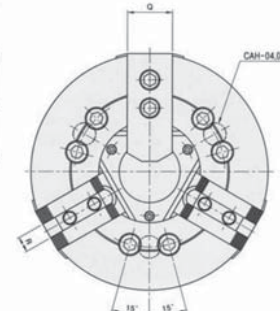
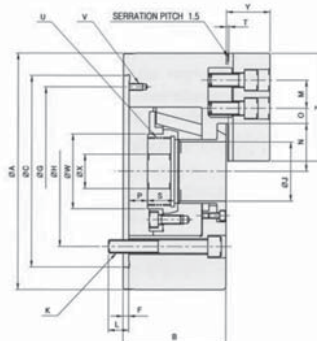
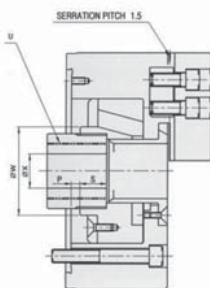
TMX High Pressure Chuck Lubricant

TMX Chuck Lubricant	Part Number	Retail Price
16 oz	3-799-025	28.00



Prices are subject to change without notice

TMX 3-Jaw Large Thru-Hole Plain Back Chucks – Dimensions



6", 8", 10", 12", 15", 18", 21", 24"

Chuck Dia	Part Number	A	B	C	F	G	H	J	K	L	M	N max	N min	O max	O min
5"	3-780-0500	5.3150	2.3622	4.3307	0.1575	3.7795	3.2520	1.2992	3-M10	0.5906	0.5512	1.0433	0.9370	0.7776	0.3051
6"	3-780-0600	6.6535	3.1496	5.5118	0.1969	4.5669	4.1260	1.8110	6-M10	0.4724	0.7874	1.3189	1.2087	0.9055	0.3937
8"	3-780-0800	8.2677	3.5433	6.6929		5.9055	5.2520	2.0472	6-M12	0.5906	0.9843	1.6417	1.4921	1.0630	
10"	3-780-1000	10.0000	3.9370	8.6614	0.2362	7.4803	6.7480	3.0315	6-M16	0.6693	1.1811	2.1457	1.9803	1.2205	0.4724
12"	3-780-1200	11.9685	4.5276					3.5827							
15"	3-780-1500	15.0000	5.2362	11.8110	0.2362	10.2362	9.2520	4.6457	6-M20	1.1811	1.6929	3.2283	3.0197	1.7244	0.7205
18"	3-780-1800	17.7165		12.5984		2.9055									
21"	3-780-2100	20.8661	5.5118	14.9606	0.2362	13.0000	13.0000	5.5118	6-M22	1.3386	2.3622	3.8780	3.6693	3.4449	0.8465
24"	3-780-2400	24.0157	5.8661					6.4961							

Chuck Dia	Part Number	P max	P min	Q	R	S	T	U max	V	W	X	Y	Z
5"	3-780-0500	0.0394	-0.3543	0.9055	0.3937	0.7874	0.0787	M40x1.5	3-M6	1.7717	0.7874	1.0236	2.1260
6"	3-780-0600	0.4724	-0.0394	1.2205	0.4724	0.7480		M55x2		2.3622	0.7874	1.2992	2.8346
8"	3-780-0800	0.6496	-0.0591	1.5354	0.5512	0.8071		M60x2		2.5984	1.1811	3.7008	1.5354
10"	3-780-1000	0.3740	-0.4134	1.7323	0.6299	1.0630		M85x2	3.7008	1.7717			4.3307
12"	3-780-1200	0.3937	-0.5512	1.9685	0.8268	1.1024		M100x2	4.2520	2.0079	4.3701		
15"	3-780-1500	0.4331	-0.4724	2.4409	0.8661	1.5354	0.1969	M130x2	3-M10	5.4724	2.3622	2.7559	6.4961
18"	3-780-1800							M155x3		3-M12	6.5354	3.1496	2.8740
21"	3-780-2100			2.5591	0.9843	1.5748		M17x3	7.3622				
24"	3-780-2400									0.7874	-0.1181		

Prices are subject to change without notice



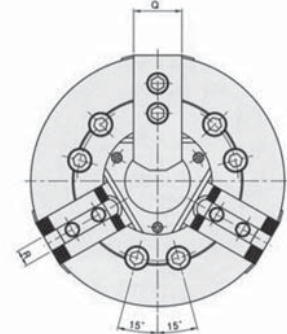
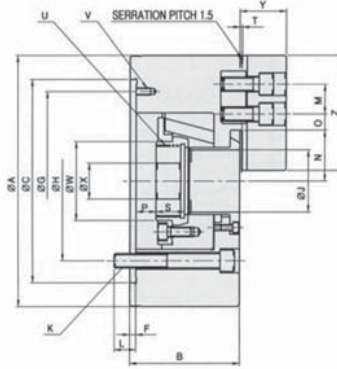
Power Chucks

TOOLMEX
Industrial Solutions

POWER CHUCKS

3-Jaw Extra Large Thru-Hole Plain Back Chucks

NEW!



Chuck Dia	Part Number	Retail Price	Thru Hole	Jaw Stroke	Plunger Stroke	Gripping Dia Max	Gripping Dia Min	Max Permissible Input Force	Max Static Gripping Force	Max Permissible Speed	Wt	Moment of Inertia
6"	3-770-0600	On Request	2.0866	0.2165	0.5118	6.6535	0.5118	5622	13493	6000	26.2	0.0471
8"	3-770-0800		2.5984	0.2992	0.7087	8.2677	0.4331	8598	21159	5000	50.7	0.1167
10"	3-770-1000		3.2283	0.3346	0.7874	10.0000	1.2205	11244	26986	4200	70.5	0.2683

Chuck Dia	Matching Cylinder Part Number	Retail Price	Matching Hard Jaws Part Number	Retail Price	Matching Soft Jaws Part Number	Retail Price
6"	3-797-060	On Request	3-787-306	On Request	3-788-306	113.40
8"	3-797-080	1,891.89	3-787-308		3-788-308	134.14
10"	3-797-100	2,402.40	3-787-310		3-788-310	167.67

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 632

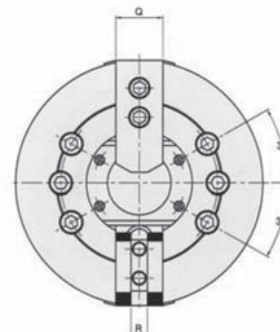
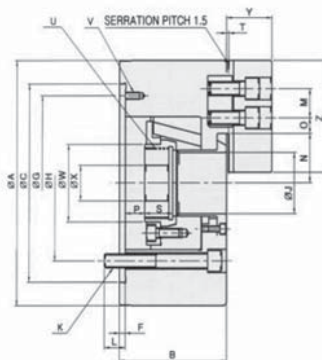
Dimensions

Chuck Dia	Part Number	A	B	C	F	H	J	K	L	M	N max	N min	O max	O min
6"	3-770-0600	6.6929	3.1890	5.5118	0.1969	4.1260	2.0866	6-M10	0.6299	0.7874	1.4567	1.3480	0.8268	0.3150
8"	3-770-0800	8.2677	3.5827	6.6929	0.1969	5.2520	2.5984	6-M12	0.7874	0.9843	1.8189	1.6693	0.9154	0.4035
10"	3-770-1000	10.0000	3.9370	8.6614	0.1969	6.7480	3.2283	6-M16	0.6693	1.1811	2.2154	2.0551	1.2205	0.4724

Chuck Dia	Part Number	P max	P min	Q	R	S	T	U max	V	W	X	Y	Z
6"	3-770-0600	0.4724	-0.0394	1.2205	0.4724	0.7480	0.0787	M60x2	3-M6	2.5984	0.7874	1.3189	2.8346
8"	3-770-0800	0.2756	-0.4331	1.5354	0.5512	1.0630		M75x2		3.1496		1.1811	1.5354
10"	3-770-1000	0.3740	-0.4134	1.7323	0.6299			M90x2	3-M8	3.8583	1.7717	4.3307	

Prices are subject to change without notice

2-Jaw Large Thru-Hole Plain Back Chucks **NEW!**



Chuck Dia	Part Number	Retail Price	Thru Hole	Jaw Stroke	Plunger Stroke	Gripping Dia Max	Gripping Dia Min	Max Permissible Input Force	Max Static Gripping Force	Max Permissible Speed	Wt	Moment of Inertia
6"	3-782-0600	1,331.17	1.8110	0.2165	0.5118	6.6535	0.5118	3748	9445	6000	27.1	0.0451
8"	3-782-0800	1,646.10	2.0472	0.2992	0.7087	8.2677	0.4331	5997	14106	5000	47.8	0.1434
10"	3-782-1000	2,435.06	3.0315	0.3346	0.7874	10.0000	1.2205	7496	18725	4200	74.3	0.2622
12"	3-782-1200	2,993.15	3.5827	0.4016	0.9449	11.9685	1.3386	8808	22488	3300	112.4	0.5530

Chuck Dia	Matching Cylinder Part Number	Retail Price	Matching Soft Jaws Part Number	Retail Price
6"	3-797-060	1,779.68	3-788-306	113.40
8"	3-797-080	2,277.52	3-788-308	134.14
10"	3-797-100	3,085.04	3-788-310	167.67
12"	3-797-120	4,190.48	3-788-312	223.56

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 632

Dimensions

Chuck Dia	Part Number	A	B	C	F	G	H	J	K	L	M	N max	N min	O max
6"	3-782-0600	6.6535	3.1496	5.5118	0.1969	4.5669	4.1260	1.8110	3-M10	0.4724	0.7874	1.3189	1.2087	0.9055
8"	3-782-0800	8.2677	3.5827	6.6929		5.9055	5.2520	2.0472	3-M12	0.5906	0.9843	1.6417	1.4921	1.0630
10"	3-782-1000	10.0000	3.9370	8.6614	0.2362	7.4803	6.7480	3.0315	3-M16	0.6693	1.1811	2.1457	1.9803	1.2205
12"	3-782-1200	11.9685	4.5276					3.5827				0.7087	2.4449	2.2323

Chuck Dia	Part Number	O min	P max	P min	Q	R	S	T	U max	V	W	X	Y	Z
6"	3-782-0600	0.3937	0.4724	-0.0394	1.2205	0.4724	0.7480	0.0787	M55x2	3-M6	2.3622	0.7874	1.2992	2.5984
8"	3-782-0800		0.6496	-0.0591	1.5354	0.5512	0.8071		M60x2		2.5984		1.5354	3.3858
10"	3-782-1000	0.4724	0.3740	-0.4134	1.7323	0.6299	1.0630		M85x2	3-M8	3.7008	1.1811	1.7717	4.2520
12"	3-782-1200	0.5906	0.3937	-0.5512	1.9685	0.8268	1.1024		M100x2		4.2520		2.0079	4.3701

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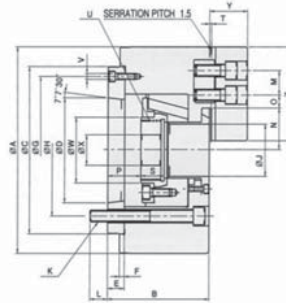


Power Chucks

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POWER CHUCKS

3-Jaw Large Thru-Hole Direct A2 Mount Chucks **NEW!**



Chuck Dia	Part Number	Retail Price	Spindle Nose	Thru Hole	Jaw Stroke	Plunger Stroke	Gripping Dia Max	Gripping Dia Min	Max Permissible Input Force	Max Static Gripping Force	Max Permissible Speed	Wt	Moment of Inertia
				in			lbf						
6"	3-781-0650	1,568.00	A2-5	1.8110	0.2165	0.5118	6.6535	0.5118	5512	14167	6000	30.2	0.0512
8"	3-781-0860	1,912.96	A2-6	2.0472	0.2992	0.7087	8.2677	0.4331	8995	21159	5000	52.0	0.1454
10"	3-781-1080	2,395.12	A2-8	3.0315	0.3346	0.7874	10.0000	1.2205	11244	28088	4200	88.2	0.2642
12"	3-781-1280	3,382.96	A2-8	3.5827	0.4016	0.9449	11.9685	1.3386	13043	33071	3300	141.1	0.6267
15"	3-781-1511	5,295.92	A2-11	4.6457	0.4173	0.9055	15.0000	1.1811	15962	40467	2500	280.0	1.9539
18"	3-781-1811	8,448.05	A2-11				17.7165						
21"	3-781-2115	1,2198.05	A2-15	5.5118			20.8661	3.4252	20233	52606	1700	542.3	7.5782
24"	3-781-2415	1,4613.64	A2-15	6.4961	0.4094		24.0157	4.3307					

Chuck Dia	Matching Cylinder Part Number	Retail Price	Matching Hard Jaws Part Number	Retail Price	Matching Soft Jaws Part Number	Retail Price
6"	3-797-060	1,779.68	3-787-306	On Request	3-788-306	113.40
8"	3-797-080	2,277.52	3-787-308		3-788-308	134.14
10"	3-797-100	3,085.04	3-787-310		3-788-310	167.67
12"	3-797-120	4,190.48	3-787-312		3-788-312	223.56
15"	3-797-150	7,859.60	3-787-315		3-788-315	447.12
18"			3-787-321		3-788-321	655.00
21"						
24"						

TMX part number series 3-780 and 3-781 are interchangeable with Kitagawa B200 series

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025 see page 632

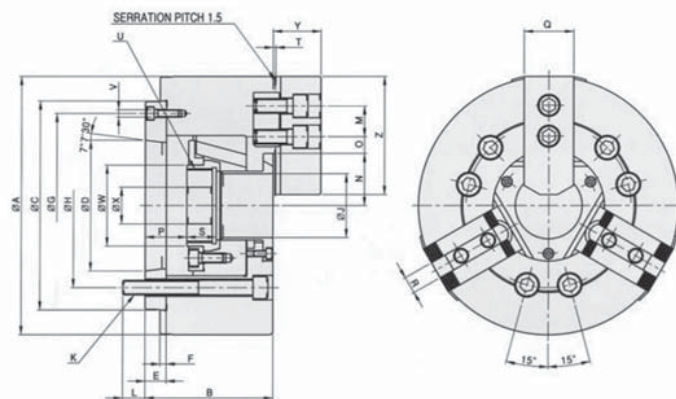
Dimensions

Dia	Part Number	A	B	C	D	E	F	G	H	J	K	L	M	N max	N min
6"	3-781-0650	6.6535	3.5433	5.5118	3.2505	0.5906	0.1969	4.5669	4.1260	1.8110	6-M10	0.6299	0.7874	1.3189	1.2087
8"	3-781-0860	8.2677	4.0551	6.6929	4.1880	0.6693		5.9055	5.2520	2.0472	6-M12	0.7087	0.9843	1.6417	1.4921
10"	3-781-1080	10.0000	4.4488	8.6614	5.5007	0.7087		7.4803	6.7480	3.0315	6-M16	0.9449	1.1811	2.1457	1.9803
12"	3-781-1280	11.9685	5.0000				3.5827	0.9843	2.4449	2.2323					
15"	3-781-1511	15.0000	5.8661	11.8110	7.7507	0.8661	0.2362	10.2362	9.2520	4.6457	6-M20	1.1024	1.6929	3.2283	3.0197
18"	3-781-1811	17.7165		14.9606				12.5984	5.5118	1.3386	3.8780	3.6693			
21"	3-781-2115	20.8661	6.3386	14.9606	11.2510	1.0630	0.2362	13.0000	13.0000	6.4961	6-M22	1.3780	2.3622	4.2677	4.0630
24"	3-781-2415	24.0157	6.6929												

Dia	Part Number	O max	O min	P max	P min	Q	R	S	T	U max	V	W	X	Y	Z
6"	3-781-0650	0.9055	0.3937	1.0630	0.5512	1.2205	0.4724	0.7480	0.0787	M55x2	3-M6	2.3622	0.7874	1.2992	2.5984
8"	3-781-0860	1.0630		1.3189	0.6102	1.5354	0.5512	0.8071		M60x2		2.5984	1.5354	3.3858	
10"	3-781-1080	1.2205	0.4724	1.0827	0.2953	1.7323	0.6299	1.0630		M85x2	3-M8	3.7008	1.1811	1.7717	4.2520
12"	3-781-1280	1.7717	0.5906	1.1024	0.1575	1.9685	0.8268	1.1024	M100x2	4.2520		2.0079	4.3701		
15"	3-781-1511	1.7244	0.7205	1.2992	0.3937	2.4409	0.8661	1.5354	0.1969	M130x2	3-M10	5.4724	2.3622	2.7559	6.4961
18"	3-781-1811	2.9055								1.4961	0.5906	2.5591	0.9843	1.5748	M155x3
21"	3-781-2115	3.4449	1.8504	0.9449				M175x3		7.3622					
24"	3-781-2415	4.6260													

Prices are subject to change without notice

3-Jaw Extra Large Thru-Hole Direct A2 Mount Chucks



Chuck Dia	Part Number	Retail Price	Spindle Nose	Thru Hole	Jaw Stroke	Plunger Stroke	Gripping Dia Max	Gripping Dia Min	Max Permissible Input Force	Max Static Gripping Force	Max Permissible Speed	Wt	Moment of Inertia
6"	3-771-0650	On Request	A2-5	2.0866	0.2165	0.5118	6.6535	0.5118	5622	14167	6000	30.2	0.0512
8"	3-771-0860	2,040.00	A2-6	2.5984	0.2992	0.7087	8.2677	0.4331	8598	21159	5000	52.0	0.1454
10"	3-771-1080	2,550.00	A2-8	3.2283	0.3346	0.7874	10.0000	1.2205	11244	26986	4200	88.2	0.2642

Chuck Dia	Matching Cylinder Part Number	Retail Price	Matching Hard Jaws Part Number	Retail Price	Matching Soft Jaws Part Number	Retail Price
6"	3-797-060	1,779.68	3-787-306	On Request	3-788-306	113.40
8"	3-797-080	2,277.52	3-787-308		3-788-308	134.14
10"	3-797-100G	3,085.04	3-787-310		3-788-310	167.67

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 632

Dimensions

Chuck Dia	Part Number	A	B	C	D	E	F	G	H	J	K	L	M	N max	N min
6"	3-771-0650	6.6929	3.5827	5.5118	3.2505	0.5906	0.1969	4.5669	4.1260	2.0866	6-M10	0.6299	0.7874	1.4567	1.3480
8"	3-771-0860	8.2677	4.3701	6.6929	4.1880	1.0236		5.9055	5.2520	2.5984	6-M12	0.8268	0.9843	1.8189	1.6693
10"	3-771-1080	10.0000	4.4488	8.6614	5.5007	0.7087		7.4803	6.7480	3.2283	6-M16	0.9449	1.1811	2.2154	2.0551

Chuck Dia	Part Number	O max	O min	P max	P min	Q	R	S	T	U max	V	W	X	Y	Z
6"	3-771-0650	0.8268	0.3150	1.0630	0.5512	1.2205	0.4724	0.7480	0.0787	M60x2	3-M6	2.5984	0.7874	1.3189	2.8346
8"	3-771-0860	0.9154	0.4035	1.2992	0.5906	1.5354	0.5512	0.8071		M80x2	6-M12	3.4646		1.5354	3.7402
10"	3-771-1080	1.2205	0.4724	1.0827	0.2953	1.7323	0.6299	1.0630		M90x2	3-M8	3.8583		1.7717	4.3307

Prices are subject to change without notice

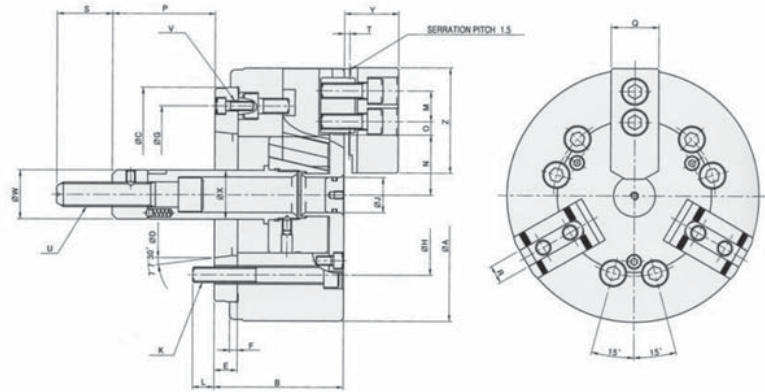


Power Chucks

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POWER CHUCKS

Closed Center Chucks, Short Taper, Direct Mount, Small **NEW!**



Chuck Dia	Part Number	Retail Price	Spindle Nose	Jaw Stroke	Plunger Stroke	Gripping Dia Max	Gripping Dia Min	Max Permissible Input Force	Max Static Gripping Force	Max Permissible Speed	Wt	Moment of Inertia
				in				lbf		RPM	lbs	lb*ft ²
6"	3-761-0650	1,204.55	A2-5	0.3622	0.7874	6.4961	0.7480	4273	14167	6000	30.9	0.0410
8"	3-761-0860	1,506.49	A2-6	0.3465	0.8268	8.2677	0.9055	6297	17990	4800	59.5	0.1208
10"	3-761-1080	1,873.38	A2-8		0.9843	10.0000	0.9449	7309	25861	4100	88.2	0.2683
12"	3-761-1280	2,571.43	A2-8	0.4134	1.1811	11.9685	1.0236	9332	35306	3400	145.5	0.6165

Chuck Dia	Matching Cylinder Part Number	Retail Price	Matching Hard Jaws Part Number	Retail Price	Matching Soft Jaws Part Number	Retail Price
6"	3-796-100	On Request	3-787-306	On Request	3-788-306	113.40
8"	3-796-125		3-787-308		3-788-308	134.14
10"			3-787-310		3-788-310	167.67
12"	3-796-150		3-787-312		3-788-312	223.56

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 632

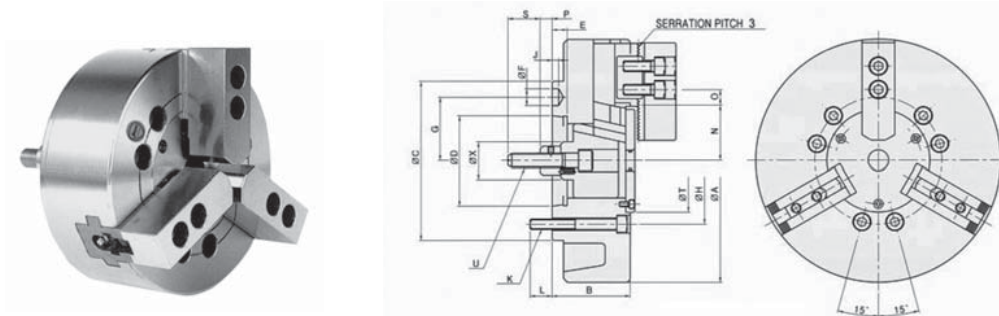
Dimensions

Chuck Dia	Part Number	A	B	C	D	E	F	G	H	J	K	L	M	N max	N min
6"	3-761-0650	6.6535	3.3071	5.5118	3.2505	0.5906	0.1969	4.5669	4.1260	0.9055	6-M10	0.5512	0.7874	1.6142	1.4449
8"	3-761-0860	8.2677	3.8189	6.6929	4.1880	0.6693		5.9055	5.2520	1.1024	6-M12	0.7087	0.9843	1.8228	1.6496
10"	3-761-1080	10.0000	4.0157	8.6614	5.5007	0.7087	0.2362	7.4803	6.7480	1.3386	6-M16	0.9843	1.1811	2.0118	1.8386
12"	3-761-1280	11.9685	4.6457							1.5354				2.4016	2.1929

Chuck Dia	Part Number	O max	O min	P max	P min	Q	R	S	T	U max	V	W	X	Y	Z
6"	3-761-0650	0.5118	0.2756	3.4055	2.6181	1.2205	0.4724	1.4173	0.1575	M16x2.0	3-M6	1.2598	1.2598	1.3780	2.8346
8"	3-761-0860	0.8858	0.3543	4.3307	3.5039	1.5354	0.5512		0.1969	M20x2.5		3-M8	1.4961	1.4961	1.6929
10"	3-761-1080	1.2087	0.4409	5.5118	4.5276	1.7323	0.6299		0.1969		1.4961		1.7323	1.9685	4.3307
12"	3-761-1280	1.9173	0.5000	5.7087		1.9685	0.7087		1.9685	2.1260	4.3701				

Prices are subject to change without notice

Closed Center Chucks, Short Taper, Direct Mount, Large **NEW!**



Chuck Dia	Part Number	Retail Price	Spindle Nose	Jaw Stroke	Plunger Stroke	Gripping Dia Max	Gripping Dia Min	Max Permissible Input Force	Max Static Gripping Force	Max Speed	Wt	Moment of Inertia	
						in	in						lbf
15"	3-761-1508	4,925.32	A2-8	0.7323	1.3780	15.0000	2.3622	16399	32797	2100	216.0	1.4583	
	3-761-1511	4,925.32	A2-11			17.9921							
18"	3-761-1808	5,935.32	A2-8			20.8661	4.3307	21886	43283	1500	429.9	5.6120	
	3-761-1811	5,935.06	A2-11			24.0157							
21"	3-761-2111	7,879.87	A2-11										
	3-761-2115	7,879.87	A2-15										
24"	3-761-2411	9,503.25	A2-11										
	3-761-2415	9,503.25	A2-15										

Chuck Dia	Matching Cylinder Part Number	Retail Price	Matching Hard Jaws Part Number	Retail Price	Matching Soft Jaws Part Number	Retail Price
15"	3-796-200	On Request	3-787-315	On Request	3-788-315	447.12
18"						
21"			-	-	-	
24"			-	-	-	

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 632

Dimensions

Dia	Part Number	A	B	C	D	E	F	G	H	J	K (ANSI)	K (JIS)	
15"	3-761-1508	15.0000	4.9213	8.8583	5.5006	0.7874	0.9531	3.3750	6.7500	0.3150	5/8-11UNC	6-M16	
	3-761-1511			11.0236	7.7506								0.9531
18"	3-761-1808	17.9921		8.8583	5.5006		0.7874	1.1559	4.6260	9.2520	0.3937	3/4-10UNC	6-M20
	3-761-1811			11.0236	7.7506								
21"	3-761-2111	20.8661	5.5118	14.9606	7.7506	0.7874	1.1559	4.6260	9.2520	0.3937	3/4-10UNC	6-M20	
	3-761-2115			11.0236	7.7506	0.7874	1.1559	4.6260	9.2520		7/8-9UNC	6-M22	
24"	3-761-2411	24.0157		11.0236	7.7506	0.7874	1.1559	4.6260	9.2520		3/4-10UNC	6-M20	
	3-761-2415			14.9606	11.2505	0.8661	1.4059	6.5000	13.0000		7/8-9UNC	6-M22	

Dia	Part Number	L (ANSI)	L (JIS)	N max	N min	O max	O min	P max	P min	S	T	U	V	X
15"	3-761-1508	0.9449	0.8858	2.9331	2.5669	2.1457	0.8465	1.3780	0.0000	1.9685	6.8898	M27x3.0	3.3465	2.4803
	3-761-1511	0.9055	1.0236										2.5591	
18"	3-761-1808	0.9449	0.8858	2.9331	2.5669	3.5630				4.7244				
	3-761-1811	0.9055	1.0236	3.9961	3.6299	3.9567				3.9370				
21"	3-761-2111	1.3150	1.2205	3.9961	3.6299	3.9567	4.3307	2.9528						
	3-761-2115	1.3937	1.2598	2.1654	8.6614	M30x3.5	5.7087							
24"	3-761-2411	1.3150	1.2205	3.9961	3.6299	5.3740								
	3-761-2415	1.3937	1.2598											

Prices are subject to change without notice

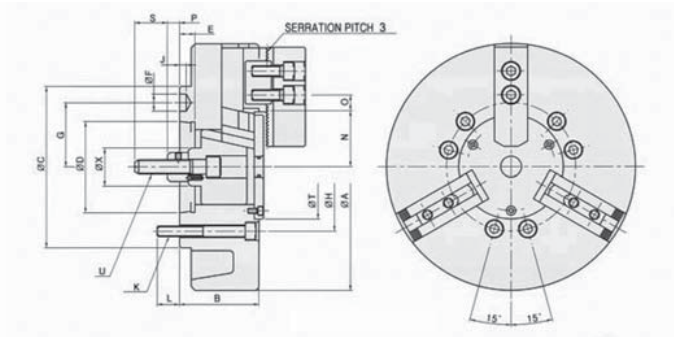


Power Chucks

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POWER CHUCKS

Closed Center Chucks, Short Taper, Direct Mount, Extra Large **NEW!**



Chuck Dia	Part Number	Retail Price	Jaw Stroke	Plunger Stroke	Gripping Dia Max	Gripping Dia Min	Max Permissible Input Force	Max Static Gripping Force	Max Speed	Wt	Moment of Inertia
			in				lbf		RPM	lbs	lbs*ft ²
32"	3-761-3200	On Request	0.7323	1.4961	31.4961	7.8740	25927	46453	800	751.8	0.4977
40"	3-761-4000		1.8110	2.2441	39.3701	7.0866	40452	71915	630	1322.8	1.4399
50"	3-761-5000		2.3622		49.2126	7.8740			500	1763.7	3.0272
63"	3-761-6300			62.9921	12.5984	280	3527.3	10.4395			

Chuck Dia	Matching Cylinder Part Number	Retail Price
32"	3-796-200	On Request
40"	3-796-245	
50"		
63"		

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 632

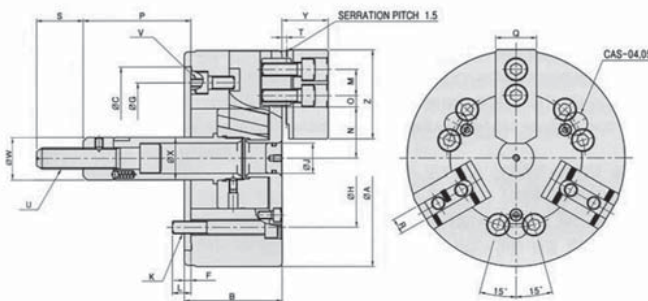
Dimensions

Chuck Dia	Part Number	A	B	C	E	G	H	K (JIS)	L (JIS)
32"	3-761-3200	31.4961	5.9055	14.9606	0.2362	13.0000	13.0000	6-M24	1.2205
40"	3-761-4000	39.3701	7.0866	20.4724	0.3150	18.2520	18.2520		1.2598
50"	3-761-5000	49.2126		28.3465		25.4961	25.4961	6-M30	1.8110
63"	3-761-6300	62.9921	8.6614						

Chuck Dia	Part Number	N max	N min	P max	P min	S	T	U	X
32"	3-761-3200	3.9764	2.5157	1.3780	-0.1181	2.3622	10.6299	M30xP3.5	4.4882
40"	3-761-4000	8.1496	6.0630	1.2598	-0.9843	2.6772	13.3858		M36xP4.0
50"	3-761-5000	-	-						
63"	3-761-6300	-	-	0.5118	-1.8504		15.3543		

Prices are subject to change without notice

Closed Center Chucks, Plain Back, Small **NEW!**



Chuck Dia	Part Number	Retail Price	Jaw Stroke	Plunger Stroke	Gripping Dia	Gripping Dia	Max Permissible Input Force	Max Static Gripping Force	Max Permissible Speed	Wt	Moment of Inertia
					Max	Min					
4"	3-760-0400	On Request	0.1969	0.5906	4.3307	0.2362	981	2699	5000	8.8	0.0041
5"	3-760-0500				5.3150	0.5906	1426	3949		13.2	0.0123
6"	3-760-0600	1,042.21	0.3622	0.7874	6.4961	0.7480	4273	14167	6000	28.7	0.0369
8"	3-760-0800	1,344.16	0.3465	0.8268	8.2677	0.9055	6297	17990	4800	55.1	0.1126
10"	3-760-1000	1,688.31	0.3465	0.9843	10.0000	0.9449	7309	25861	4100	81.6	0.2458
12"	3-760-1200	2,370.13	0.4134	1.1811	11.9685	1.0236	9332	35306	3400	126.3	0.5940

Chuck Dia	Matching Cylinder Part Number	Retail Price	Matching Hard Jaws Part Number	Retail Price	Matching Soft Jaws Part Number	Retail Price
4"	3-796-065	On Request	—	—	3-788-304	78.00
5"	3-796-080		—	—	3-788-305	94.00
6"	3-796-100		3-787-306	On Request	3-788-306	113.40
8"	3-796-125		3-787-308		3-788-308	134.14
10"			3-787-310		3-788-310	167.67
12"	3-796-150		3-787-312		3-788-312	223.56

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 632

Dimensions

Chuck Dia	Part Number	A	B	C	F	G	H	J	K	L	M	N max	N min
4"	3-760-0400	4.3307	2.0472	2.3622	0.2362	—	3.1496	—	3-M8	0.6496	0.5512	1.0236	0.9252
5"	3-760-0500	5.3150		3.1496	0.2756	—	3.9370	—			0.7480	1.2598	1.1614
6"	3-760-0600	6.6535	2.9134	5.5118	0.1969	4.5669	4.1260	0.9055	6-M10	0.5512	0.7874	1.6142	1.4449
8"	3-760-0800	8.2677	3.3465	6.6929		5.9055	5.2520	1.1024	6-M12	0.5906	0.9843	1.8228	1.6496
10"	3-760-1000	10.0000	3.5039	8.6614		0.2362	7.4803	6.7480	1.3386	6-M16	0.7087	1.1811	2.0118
12"	3-760-1200	11.9685	4.1732		1.5354				2.4016				2.1929

Chuck Dia	Part Number	O max	O min	P max	P min	Q	R	S	T	U max	V	W	X	Y	Z			
4"	3-760-0400	0.3937	0.2756	0.1969	-0.3937	0.9843	0.3937	0.9843	0.1181	M10x1.5	—	0.9843	—	1.0630	2.1260			
5"	3-760-0500	0.4528		0.3543	-0.2362					M12x1.75	—	1.1024	—		2.3031			
6"	3-760-0600	0.5118	0.2756	3.9961	3.2087	1.2205	0.4724	1.4173	0.1575	M16x2.0	3-M6	1.2598	1.2598	1.3780	2.8346			
8"	3-760-0800	0.8858	0.3543	5.0000	4.1732	1.5354	0.5512					0.1969	M20x2.5	3-M8	1.4961	1.4961	1.6929	3.7402
10"	3-760-1000	1.2087	0.4409	6.2205	5.2362	1.7323	0.6299									1.7323	1.9685	4.3307
12"	3-760-1200	1.9173	0.5000	6.4173	1.9685	0.7087	1.9685	2.1260	4.3701									

Prices are subject to change without notice

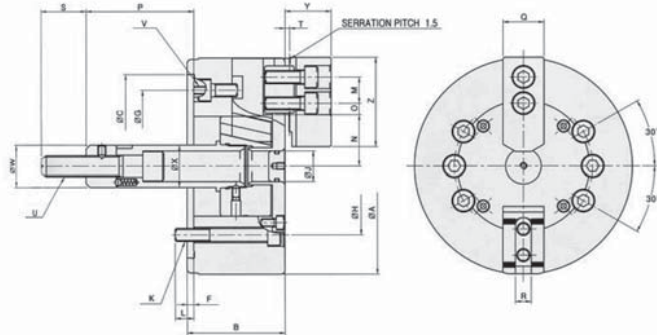


Power Chucks

TOOLMEX
Industrial Solutions

POWER CHUCKS

2-Jaw Closed Center Chucks, Plain Back **NEW!**



Chuck Dia	Part Number	Retail Price	Jaw Stroke	Plunger Stroke	Gripping Dia Max	Gripping Dia Min	Max Permissible Input Force	Max Static Gripping Force	Max Permissible Speed	Wt	Moment of Inertia
			in				lbf		RPM	lbs	lb*ft ²
6"	3-762-0600	On Request	0.3622	0.7874	6.4961	0.7480	2820	9350	4300	27.6	0.0348
8"	3-762-0800		0.3465	0.8268	8.2677	0.9055	4156	11872	3600	52.9	0.1086
10"	3-762-1000		0.9843	10.0000	0.9449	4822	17069	3100	78.3	0.2396	
12"	3-762-1200		0.4134	1.1811	11.9685	1.0236	6158	23301	2500	133.4	0.5796

Chuck Dia	Matching Cylinder Part Number	Retail Price	Matching Soft Jaws Part Number	Retail Price
6"	3-796-100	On Request	3-788-306	113.40
8"	3-796-125		3-788-308	134.14
10"			3-788-310	167.67
12"	3-796-150		3-788-312	223.56

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 632

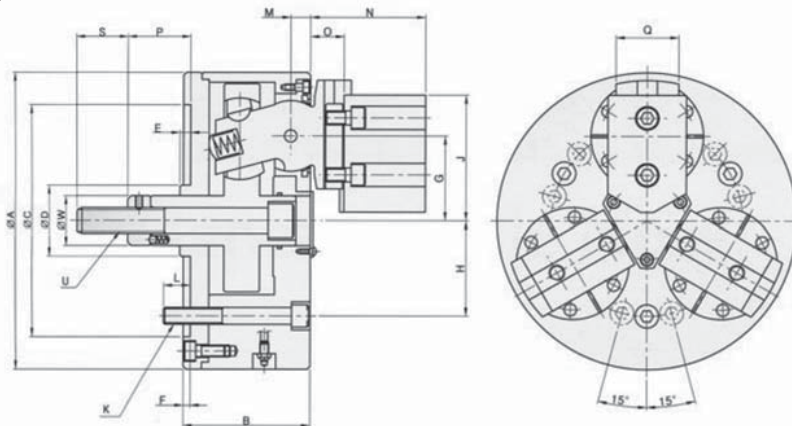
Dimensions

Chuck Dia	Part Number	A	B	C	F	G	H	J	K	L	M	N max	N min
6"	3-762-0600	6.6535	2.9134	5.5118	0.1969	4.5669	4.1260	0.9055	6-M10	0.5512	0.7874	1.6142	1.4449
8"	3-762-0800	8.2677	3.3465	6.6929		5.9055	5.2520	1.1024	6-M12	0.5906	0.9843	1.8228	1.6496
10"	3-762-1000	10.0000	3.5039	8.6614	0.2362	7.4803	6.7480	1.3386	6-M16	0.7087	1.1811	2.0118	1.8386
12"	3-762-1200	11.9685	4.1732					1.5354				2.4016	2.1929

Chuck Dia	Part Number	O max	O min	P max	P min	Q	R	S	T	U max	V	W	X	Y	Z
6"	3-762-0600	0.5118	0.2756	3.9961	3.2087	1.2205	0.4724	1.4173	0.1575	M16x2.0	3-M6	1.2598	1.2598	1.4173	2.8346
8"	3-762-0800	0.8858	0.3543	5.0000	4.1732	1.5354	0.5512		0.1969	M20x2.5		3-M8	1.4961	1.4961	1.6929
10"	3-762-1000	1.2087	0.4409	6.2205	5.2362	1.7323	0.6299				2.1260		4.3307		
12"	3-762-1200	1.9173	0.5000	6.4173		1.9685	0.7087		2.1260	4.3701					

Prices are subject to change without notice

Swing Lock Chucks **NEW!**



Chuck Dia	Part Number	Retail Price	Jaw Stroke	Plunger Stroke	Gripping Dia Max	Gripping Dia Min	Max Permissible Input Force	Max Static Gripping Force	Max Permissible Speed	Wt	Moment of Inertia
6"	3-764-0600	On Request	0.2913	0.4488	4.7244	0.4724	4850	14551	3800	30.9	0.0102
8"	3-764-0800		0.3622	0.5669	5.9055	0.6299	6394	19181	3000	50.7	0.0225
10"	3-764-1000		0.4646	0.6890	8.0709	1.9685	7937	23811	2500	88.2	0.0553
12"	3-764-1200				9.4488	2.4803			2000	130.1	0.1229

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 632

Dimensions

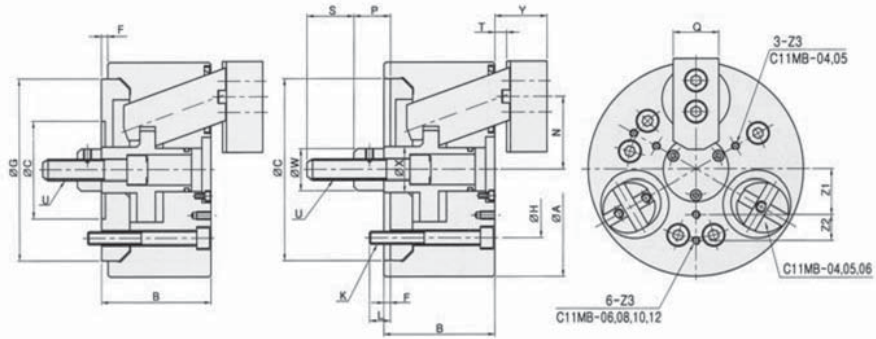
Chuck Dia	Part Number	A	B	C	D	E	F	G	H	J	K
6"	3-764-0600	6.8898	3.0315	5.5118	1.6535	0.1969	0.1969	2.0079	4.1260	2.8780	3-M12x1.5
8"	3-764-0800	8.2677	3.5039	7.4803	1.9685			2.3622	5.2520	3.5000	3-M12x1.75
10"	3-764-1000	10.0000	4.1732	9.0551	2.2835			2.8346	6.7480	4.4370	3-M16x2
12"	3-764-1200	11.9685	39.6850	11.0236	2.5984			3.6417	5.2441		

Chuck Dia	Part Number	L	M	N	O	P max	P min	Q	S	U	W
6"	3-764-0600	0.5512	0.5315	1.7402	0.7598	1.2795	1.7283	1.5000	1.4961	M16x2	1.2598
8"	3-764-0800	0.7480	0.6496	2.0748	0.9173	1.4764	2.0433	1.7480	1.4961	M218x2.5	1.3780
10"	3-764-1000	0.7874	0.7677	2.5827	1.1457	1.9685	2.6575	2.2480	1.8110	M24x3	1.7717
12"	3-764-1200					2.2441	2.9331		1.9685	M27x3	2.0866

Prices are subject to change without notice



3-Jaw Draw Down Chucks **NEW!**



Chuck Dia	Part Number	Retail Price	Jaw Stroke	Plunger Stroke	Gripping Dia	Gripping Dia	Max Permissible Input Force	Max Static Gripping Force	Max Permissible Speed	Wt	Moment of Inertia
					Max	Min					
					in		lbf		RPM	lbs	lbs*ft ²
4"	3-763-0400	On Request	0.1969	0.2756	4.3307	0.7087	1327	2317	7000	9.9	0.0066
5"	3-763-0500				5.1181	0.9843	2204	3779	6000	16.1	0.0147
6"	3-763-0600		6.4961	1.3780	3305	5554	5000	30.4	0.0037		
8"	3-763-0800		8.2677	1.5748	5510	9917	5000	59.5	0.0139		
10"	3-763-1000		10.0000	1.9685	7714	13224	4200	101.0	0.3113		
12"	3-763-1200		11.9685		9917	16529	3300	149.9	0.6554		

Chuck Dia	Matching Cylinder Part Number	Retail Price	Matching Soft Jaws Part Number	Retail Price
4"	3-796-065	On Request		78.00
5"	3-796-080		3-788-304	94.00
6"	3-796-100		3-788-306	113.40
8"	3-796-125		3-788-308	134.14
10"	3-796-150		3-788-310	167.67
12"	3-796-150		3-788-312	223.56

For best gripping results, use the recommended chuck lubricant: Part Number 3-799-025
See page 632

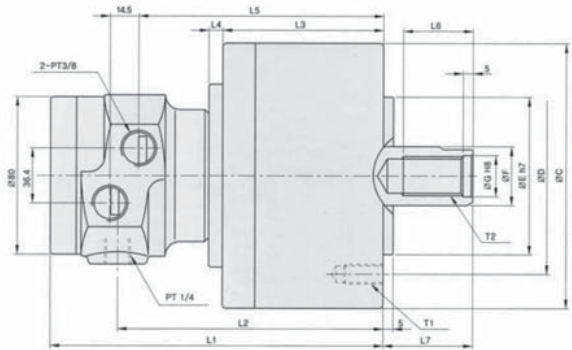
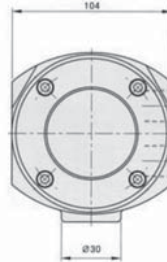
Dimensions

Chuck Dia	Part Number	A	B	C	F	G	H	K	L	N max	N min	P max	P min
4"	3-763-0400	4.3307	2.3622	2.3622	0.1969	3.8583	3.1496	3-M8	0.5512	1.4567	1.3583	0.7480	0.4724
5"	3-763-0500	5.1181	2.7559	3.1496		4.6457	3.9370		0.3543	1.7323	1.6339		
6"	3-763-0600	6.4961	3.3465	5.5118		-	4.1248	6-M10	0.4331	2.2835	2.1417	1.2992	0.9055
8"	3-763-0800	8.2677	3.7402	7.4803		-	5.2500	6-M12	0.9055	2.7953	2.6535	1.4961	1.1024
10"	3-763-1000	10.0000	4.3307	9.0551		-	6.7500	6-M16	0.8661	3.3465	3.1339	1.8504	1.2598
12"	3-763-1200	11.9685	4.9213			-			1.0630	4.0157	3.8031		

Chuck Dia	Part Number	Q	S	T max	T min	U	W	X	Y max	Y min	Z1	Z2	Z3	
4"	3-763-0400	0.9843	0.7874	0.4134	0.1378	M10x1.5	0.9843	-	1.1811	0.9055	0.9843	-	M6xDP11	
5"	3-763-0500	1.1811	0.9843			M12x1.75	1.1024	-	1.3780	1.1024	1.1811	-		
6"	3-763-0600	1.3780	1.4173	0.5512	0.1575	M16x2.0	1.2598	1.3780	1.7717	1.3780	1.3780	0.7874	M8xDP13	
8"	3-763-0800	1.5748				M20x2.5	1.4961	1.6535	2.1654	1.7717	1.7717	1.7717		0.9843
10"	3-763-1000	1.9685				1.8110	M24x3.0	1.9685	2.0472	2.5591	1.9685	2.1654		1.1811
12"	3-763-1200	2.3622	1.9685	0.7480	M27x3.0	2.0472	2.1654	2.9528	2.1654	2.7559	1.3780	M10xDP17		

Prices are subject to change without notice

High Speed Hydraulic Cylinders with Closed Center **NEW!**



Part Number	Retail Price	Cylinder Dia	Piston Stroke	Piston Surface Area Extend	Piston Surface Area Retract	Max Draw Bar Pull Extend	Max Draw Bar Pull Retract	Max Operating Pressure	Max Permissible Speed	Total Leakage	Wt	Moment of Inertia	Matching Chuck
		in		in ²		lbf		lbs/in ²	RPM	gal/min	lbs	lbs*ft ²	Size
3-796-065	On Request	2.5591	0.5906	5.1150	4.65	2745	3181	580.31	6000	0.26	7.1	0.0023	4"
3-796-080		3.1496	0.5906	7.7500	6.975	4138	3713				9.5	0.0061	5"
3-796-100		4.1339	0.7874	13.4075	12.3225	7152	6590				11.7	0.0102	6"
3-796-125		5.1181	0.9843	20.5375	19.065	10975	10188				16.3	0.0184	8" & 10"
3-796-150		5.9055	1.1811	27.2801	24.8	14573	13493				22.7	0.0307	10" & 12"
3-796-200		8.0709	1.3780	51.1501	47.4301	27347	25365				43	0.0758	15"

Dimensions

Part Number	C	D	E	F	G	L1	L2	L3	L4	L5	L6	L7 max	L7 min	T1	T2		
3-796-065	3.9370	3.1496	2.3622	20.0000	0.5118	5.7087	4.3701	2.5591	-	3.9567	1.1811	1.7717	1.1811	6-M6x16	M12xP1.5		
3-796-080	4.3307	3.5433	2.5591	25.0000	0.6693				-							6-M8x16	M16xP2.0
3-796-100	5.3150	3.9370	3.1496	1.1811	0.8268	6.6142	5.2756	3.2087	0.2559	4.8622	1.3780	1.9685	0.9843	6-M10x19	M20xP2.5		
3-796-125	6.2992	5.1181	4.3307	1.3780	0.9843	7.0079	5.6693	3.6024		5.2559	1.5748			2.1654	6-M12x22	M24xP3.0	
3-796-150	7.2835			1.7717	1.2008	7.2835	5.9449	3.8780		5.5315	1.7717			2.1654	6-M12x20	M30xP3.5	
3-796-200	9.6457			5.7087	4.7244	2.1654	1.4567	8.2087		6.8701	4.8031			6.4567	2.3622	2.7165	1.3386

Prices are subject to change without notice

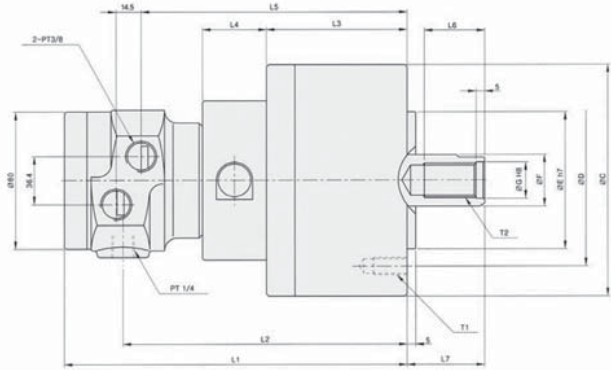
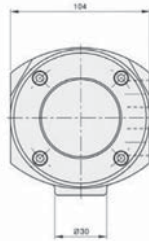


Power Hydraulic Cylinders

TOOLMEX
Industrial Solutions

POWER HYDRAULIC CYLINDERS

Hydraulic Cylinders, Closed Center, Check Valve Type **NEW!**



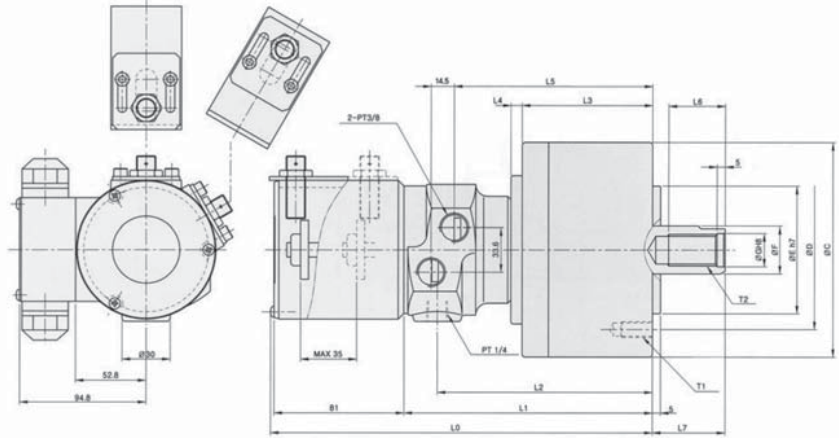
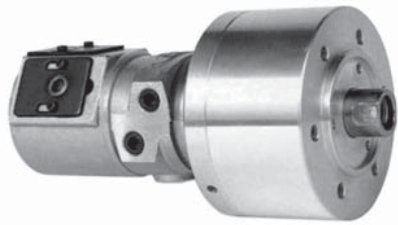
Part Number	Retail Price	Cylinder Dia	Piston Stroke	Piston Surface Area Extend	Piston Surface Area Retract	Max Draw Bar Pull Extend	Max Draw Bar Pull Retract	Max Operating Pressure	Max Permissible Speed	Total Leakage	Wt	Moment of Inertia	Matching Chuck
		in		in ²		lbf	lbs/in ²	RPM	gal/min	lbs	lbs*ft ²	Size	
3-796-2100	921.92	4.1339	0.7874	13.4075	580.31	7152	0.26	580.31	6000	0.26	11.7	0.0102	6"
3-796-2125	1,096.10	5.1181	0.9843	20.5375		10975					16.3	0.0184	8" & 10"
3-796-2150	1,297.30	5.9055	1.1811	27.2801		14573			22.7		0.0307	10" & 12"	
3-796-2200	1,963.96	8.0709	1.3780	51.1501		27347			43		0.0758	15"	

Dimensions

Part Number	C	D	E	F	G	L1	L2	L3	L4	L5	L6	L7 max	L7 min	T1	T2
3-796-2100	5.3150	3.9370	3.1496	1.1811	0.8268	7.8150	6.4764	3.2087	1.4567	6.0630	1.3780	1.7717	0.9843	6-M10x19	M20xP2.5
3-796-2125	6.2992	5.1181	4.3307	1.3780	0.9843	8.2087	6.8701	3.6024		6.4567	1.5748	1.9685		6-M12x22	M24xP3.0
3-796-2150	7.2835			1.7717	1.2008	8.4843	7.1457	3.8780		6.7323	1.7717	2.1654		6-M12x20	M30xP3.5
3-796-2200	9.6457	5.7087	4.7244	2.1654	1.4567	9.4094	8.0709	4.8031		7.6575	2.3622	2.7165		1.3386	6-M16x29

Prices are subject to change without notice

Hydraulic Cylinders, Closed Center Proximity Switch Type **NEW!**



Part Number	Retail Price	Cylinder Dia	Piston Stroke	Piston Surface Area Extend	Piston Surface Area Retract	Max Draw Bar Pull Extend	Max Draw Bar Pull Retract	Max Operating Pressure	Max Permissible Speed	Total Leakage	Wt	Moment of Inertia	Matching Chuck
		in		in ²		lbf		lbs/in ²	RPM	gal/min	lbs	lbs*ft ²	Size
3-796-3100	On Request	4.1339	0.7874	13.4075	12.3225	7152	6590	580.31	6000	0.26	12.8	0.0102	6"
3-796-3125		5.1181	0.9843	20.5375	19.065	10975	10188						8" & 10"
3-796-3150		5.9055	1.1811	27.2801	24.8	14573	13493		10" & 12"				
3-796-3200		8.0709	1.3780	51.1501	47.4301	27347	25365		15"				

Dimensions

Part Number	C	D	E	F	G	L0	L1	L2	L3	L4	L5	L6	L7 max	L7 min	T1	T2
3-796-3100	5.3150	3.9370	3.1496	1.1811	0.8268	9.2913	6.1024	5.2756	3.2087	0.02559	4.8622	1.3780	1.7717	0.9843	6-M10x19	M20xP2.5
3-796-3125	6.2992	5.1181	4.3307	1.3780	0.9843	9.6850	6.4961	5.6693	3.6024		5.2559	1.5748	1.9685		6-M12x22	M24xP3.0
3-796-3150	7.2835			1.7717	1.2008	9.9606	6.7717	5.9449	3.8780		5.5315	1.7717	2.1654		6-M12x20	M30xP3.5
3-796-3200	9.6457	5.7087	4.7244	2.1654	1.4567	10.8858	7.6969	6.8701	4.8031		6.4567	2.3622	2.7165		1.3386	6-M16x29

Prices are subject to change without notice



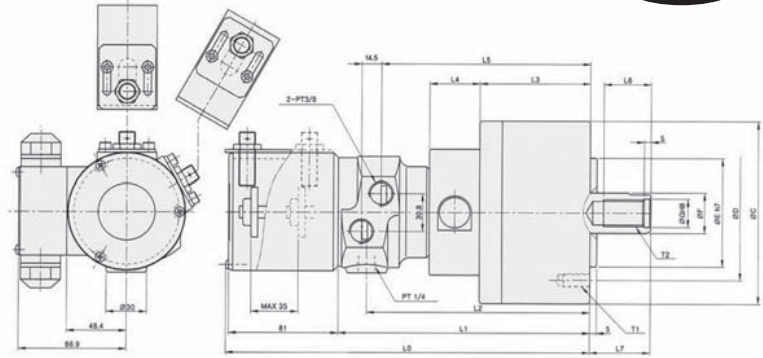
Power Hydraulic Cylinders

TOOLMEX
Industrial Solutions

POWER HYDRAULIC CYLINDERS

Closed Center Hydraulic Cylinders, Check Valve plus Proximity Switch Type

NEW!



Part Number	Retail Price	Cylinder Dia	Piston Stroke	Piston Surface Area Extend	Piston Surface Area Retract	Max Draw Bar Pull Extend	Max Draw Bar Pull Retract	Max Operating Pressure	Max Permissible Speed	Total Leakage	Wt	Moment of Inertia	Matching Chuck
		in		in ²		lbf		lbs/in ²	RPM	gal/min	lbs	lbs*ft ²	Size
3-796-4100	On Request	4.1339	0.7874	13.4075	12.3225	7152	6590	580.31	6000	0.26	16.5	0.0102	6"
3-796-4125		5.1181	0.9843	20.5375	19.065	10975	10188				22.7	0.0184	8" & 10"
3-796-4150		5.9055	1.1811	27.2801	24.8	14573	13493		5500		30.4	0.0307	10" & 12"
3-796-4200		8.0709	1.3780	51.1501	47.4301	27347	25365				48.9	0.0758	15"
3-796-4245		9.6457	2.3622	72.9741	68.0141	38961	36268		2000		83.8	—	40" thru 63"

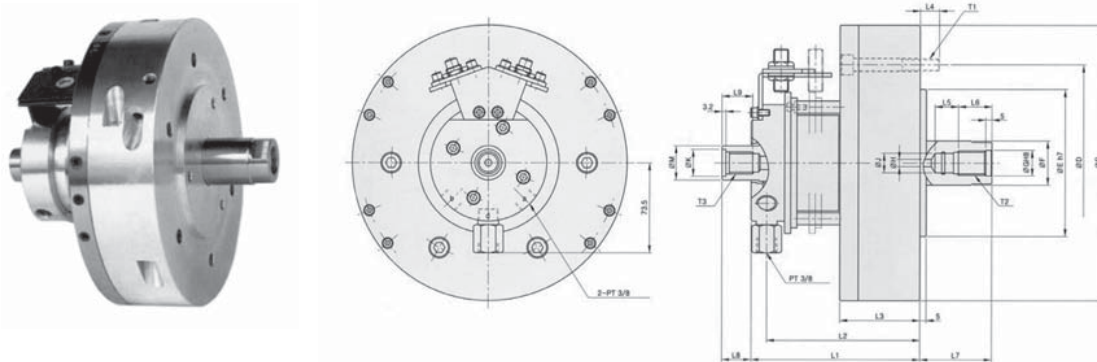
Dimensions

Part Number	C	D	E	F	G	L0	L1	L2	L3	L4	L5	L6	L7 max	L7 min	T1	T2	
3-796-4100	5.3150	3.9370	3.1496	1.1811	0.8268	10.4961	7.3031	6.4764	3.2087	1.4567	6.0630	1.3780	1.7717	0.9843	6-M10x19	M20xP2.5	
3-796-4125	6.2992	5.1181	4.3307	1.3780	0.9843	10.8858	7.6969	6.8701	3.6024		6.4567	1.5748	1.9685		6-M12x22	M24xP3.0	
3-796-4150	7.2835			1.7717	1.2008	11.1614	7.9724	7.1457	3.8780		6.7323	1.7717	2.1654		6-M12x20	M30xP3.5	
3-796-4200	9.6457	5.7087	4.7244	2.1654	1.4567	12.0866	8.8976	8.0709	4.8031		7.6575	2.3622	2.7165		1.3386	6-M16x29	M36xP4.0
3-796-4245	12.0079	8.6614	6.2992	2.5591	1.9685	15.6299	11.8898	10.0787	6.5354		1.7717	9.8031	2.6378		3.3465	0.9843	6-M20x30

Prices are subject to change without notice

Closed Center Hydraulic Cylinders, Short Length, Proximity Switch Type

NEW!



Part Number	Cylinder Dia	Piston Stroke	Piston Surface Area Extend	Piston Surface Area Retract	Max Draw Bar Pull Extend	Max Draw Bar Pull Retract	Max Operating Pressure	Max Permissible Speed	Total Leakage	Wt	Moment of Inertia	Matching Chuck
	in		in ²	in ²	lbf		lbs/in ²	RPM	gal/min	lbs	lbs*ft ²	Size
3-796-5105	4.1339	0.7874	13.4075	12.3225	7152	6590	580.31	6000	0.26	16.5	0.0021	6"
3-796-5120	5.1181	0.9843	20.5375	19.065	10975	10188		5500		22.7	0.0038	8" & 10"
3-796-5135	5.9055	1.1811	27.2801	24.8	14573	13493		2000		30.4	0.0063	10" & 12"
3-796-5140	8.0709	1.3780	51.1501	47.4301	27347	25365				48.9	0.0155	15"
3-796-5150	9.6457	2.3622	72.9741	68.0141	38961	36268				83.8	-	40" thru 63"

Part Number	Retail Price
3-796-5105	On Request
3-796-5120	
3-796-5135	
3-796-5140	
3-796-5150	

Dimensions

Part Number	C	D	E	F	G	H	J	K	M
3-796-5105	5.3150	3.9370	3.1496	1.1811	0.8268	0.8268	0.8268	0.8268	0.8268
3-796-5120	6.2992	5.1181	4.3307	1.3780	0.9843	0.9843	0.9843	0.9843	0.9843
3-796-5135	7.2835			1.7717	1.2008	1.2008	1.2008	1.2008	1.2008
3-796-5140	9.6457	5.7087	4.7244	2.1654	1.4567	1.4567	1.4567	1.4567	1.4567
3-796-5150	12.0079	8.6614	6.2992	2.5591	1.9685	1.9685	1.9685	1.9685	1.9685

Part Number	L1	L2	L3	L4	L5	L6	L7 max	L7 min	L8	L9	T1	T2	T3	
3-796-5105	7.3031	6.4764	3.2087	1.4567	6.0630	1.3780	1.7717	0.9843	3.2087	1.4567	6-M10x19	M20xP2.5	M20xP2.5	
3-796-5120	7.6969	6.8701	3.6024		6.4567	1.5748	1.9685		3.6024		6-M12x22	M24xP3.0	M24xP3.0	
3-796-5135	7.9724	7.1457	3.8780		6.7323	1.7717	2.1654		3.8780		6-M12x20	M30xP3.5	M30xP3.5	
3-796-5140	8.8976	8.0709	4.8031		7.6575	2.3622	2.7165		1.3386		4.8031	6-M16x29	M36xP4.0	M36xP4.0
3-796-5150	11.8898	10.0787	6.5354		1.7717	9.8031	2.6378		3.3465		0.9843	6-M20x30	M42xP3.0	M42xP3.0

Prices are subject to change without notice



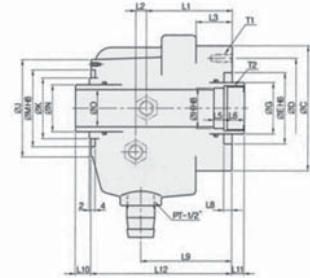
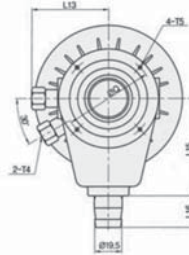
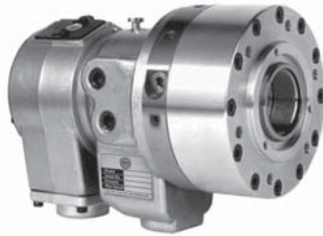
Power Hydraulic Cylinders

TOOLMEX
Industrial Solutions

POWER HYDRAULIC CYLINDERS

High Speed Hydraulic Cylinders with Large Thru-Hole

NEW!



Part Number	Retail Price	Cylinder Dia	Piston Stroke	Thru-hole Dia	Piston Surface Area Extend	Piston Surface Area Retract	Max Draw Bar Pull Extend	Max Draw Bar Pull Retract	Max Operating Pressure	Max Permissible Speed	Total Leakage	Wt	Moment of Inertia	Matching Chuck
3-797-040	On Request	2.9528	0.3937	0.8268	1.4370	1.3386	2648	2467	497.82	8000	0.42	12.6	0.0033	4"
3-797-050	3.3465	1.2205		1.7008	1.5669	3133	2886	7000		14.8		0.0049	5"	
3-797-060	1,779.68	5.1181	0.5906	1.8110	4.3543	3.9173	9352	8413	580.31	6200	0.79	26.5	0.0154	6"
3-797-080	2,277.52	6.2992	0.7874	2.0472	6.8031	6.4016	14611	13749		4700	0.92	34.2	0.0410	8"
3-797-100	3,085.04	7.2835	0.9843	3.0315	8.3976	7.7913	18034	16734		3800	1.11	50.7	0.0717	10"
3-797-120	4,190.48	8.0709	1.1811	3.5827	9.9016	9.2520	21267	19871		2800	1.19	68.3	0.1188	12"
3-797-150	7,859.60	10.0394	0.9055	4.626	14.4685	14.0433	29168	28311		4500	1.85	114.6	0.3072	15" & 21"
3-797-100G	On Request	7.2835	0.9843	3.2283	8.0748	7.4882	17342	16083		4500	1.19	64.4	0.1004	3-770-2100

Dimensions

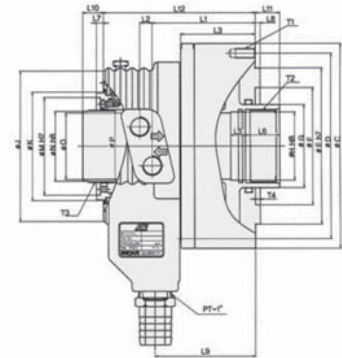
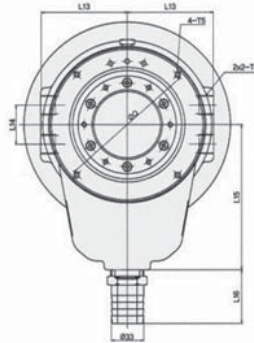
Part Number	C	D	E	F	G	H	J	K	M	N	O	P	Q
3-797-040	3.9370	3.3465	2.3622	-	1.3780	0.9843	3.3465	1.7717	2.5591	1.1811	0.8268	-	2.9921
3-797-050	4.3307	3.7402	2.5591	-	1.7717	1.4173	3.5433	2.1654		1.5748	1.2205	-	
3-797-060	6.4173	5.1181	3.9370	3.1496	2.5591	1.9685	4.2520	3.2362	2.9134	1.9685	1.8110	2.0866	3.8583
3-797-080	7.6772	6.6929	5.1181	3.5433	2.7559	2.1654	4.7244	3.5906	3.2283	2.2047	2.0472	2.3622	4.3307
3-797-100	8.5827	7.4803	6.2992	4.7244	3.7402	3.1496	5.7087	4.5748	4.2126	3.1890	3.0315	3.3465	5.3150
3-797-120	9.7244	8.4646	7.0866	5.3150	4.3307	3.7402	6.5748	5.1654	4.8031	3.7795	3.5827	3.9370	6.0630
3-797-150	12.0866	10.8268	9.0551	6.6929	5.5118	4.8425	8.3465	6.5748	6.2992	5.2992	4.6260	5.3150	7.7953
3-797-100G	8.7795	7.4803	6.2992	4.9213	3.9370	3.3858	6.5748	4.7717	4.4094	3.4252	3.2283	3.5433	6.0630

Part Number	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10 max	L10 min	
3-797-040	2.8346	0.5118	0.6299	-	0.3543	0.7087	-	0.1969	3.0709	0.8661	0.4724	
3-797-050	3.0315	0.5512		-	0.1969	0.9843	-		3.3071			
3-797-060	4.8622	0.4331	3.2480	0.2165	0.5906	1.1811	0.2362		4.4685	1.3386	0.7480	
3-797-080	5.1181	0.4724	3.4843						4.7047	1.5354		
3-797-100	5.6299		3.7598						4.9803	1.7323		
3-797-120	6.3976		0.5512						4.2717	5.5709		1.9291
3-797-150	6.4961	0.7874	3.8976	0.2362	0.7874	1.7717	0.3740		0.2362	6.8386	1.5945	0.6890
3-797-100G	5.8858	0.5512	3.7598	0.2165	0.5906	1.3780	0.2362		0.1969	5.0591	1.7323	0.7480

Part Number	L11 max	L11 min	L12	L13	L14	L15	L16	T1	T2	T3	T4	T5				
3-797-040	0.5118	0.1181	5.1181	2.8740	-	3.7402	1.9685	6-M6x14	M28xP1.5	-	PT-1/4	4-M4x7				
3-797-050			5.3937	2.9921	-	3.9370			M38xP1.5	-						
3-797-060	0.5906	0.0000	7.0079	2.9528	1.4173	4.7244	1.5748	6-M10x18	M55xP2.0	M52xP1.5	PT-1/2	4-M5x10				
3-797-080	0.7874		7.3228	3.1890		5.1181			M60xP2.0	M58xP1.5						
3-797-100	0.9843		8.0709	3.7402		5.9055			12-M10x18	M85xP2.0			M84xP2.0			
3-797-120	1.1811		9.0551	4.2126		6.5354			12-M12x22	M100xP2.0			M99xP2.0			
3-797-150	0.9449		0.0394	9.9409		5.2756			0.7874	8.4646			12-M16x32	M130xP2.0	-	4-M6x10
3-797-100G	0.9843		0.0000	8.5433		4.2126			1.4173	6.5354			12-M10x18	M90xP2.0	M89xP2.0	6-M6x10

Prices are subject to change without notice

Super High Speed Hydraulic Cylinders with Large Thru-Hole **NEW!**



Part Number	Retail Price	Cylinder Dia	Piston Stroke	Thru-hole Dia	Piston Surface Area Extend	Piston Surface Area Retract	Max Draw Bar Pull Extend	Max Draw Bar Pull Retract	Max Operating Pressure	Max Permissible Speed	Total Leakage	Wt	Moment of Inertia
3-797-2050	On Request	4.1339	0.5906	1.4173	10.4083	9.9929	5620	5395	580.31	8000	0.79	16.1	0.0020
3-797-2060		5.3150		1.8110	27.5715	16.4192	9668	8687		7000		20.9	0.0039
3-797-2080		6.1417	0.8661	2.0472	24.7644	23.0361	12961	12454		6200	1.03	29.8	0.0082
3-797-2080G		6.6929	0.9843	2.6772	27.8381	25.7610	15023	13903		5600	1.06	36.4	0.0133
3-797-2100		7.2835	0.9843	3.0315	32.3951	30.0546	175	16220		5000	1.11	37.0	0.0170

Dimensions

Part Number	C	D	E	F	G	H	J	K	M	N	O	P	Q
3-797-2050	5.3937	4.5276	3.9370	2.5591	1.8898	1.4961	4.2520	2.9921	2.5197	1.6535	1.4173	1.7717	3.8583
3-797-2060	6.4961	5.1181		3.1496	2.5591	1.9685	4.7244	3.4646	2.9134	1.9685	1.8110	2.0866	4.3701
3-797-2080	7.4803	6.6929	5.1181	3.5433	2.7559	2.1654	4.9606	3.5433	3.1890	2.2047	2.0472	2.3622	4.4488
3-797-2080G	8.2677	7.4803	6.2992	4.7244	3.3465	2.7559	6.0630	4.3701	3.9370	2.8150	2.6772	2.9528	5.7087
3-797-2100	8.7402				3.7402	3.1496	6.4567	4.7638	4.3307	3.1890	3.0315	3.3465	6.1024

Part Number	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10 max	L10 min
3-797-2050	3.7087	0.3504	2.7165	0.2362	0.5906	0.9843	0.2756	0.1969	3.9173	1.4173	0.8268
3-797-2060	3.9409		2.9134			1.1811			4.1417	1.6929	
3-797-2080		4.1417	4.0354	1.8110							
3-797-2080G	4.1417	0.5000	2.9921	0.1969	1.3780				4.4291		
3-797-2100	4.5354		3.3858								

Part Number	L11 max	L11 min	L12	L13	L14	L15	L16	T1	T2	T3	T4	T5
3-797-2050	0.5906	0	5.2795	2.6181	1.3386	4.5276	2.1654	6-M10x18	M42xP1.5	M44xP1.5	PT-3/8	4-M5x10
3-797-2060			5.5118	2.9528	1.4173	4.7244			M55xP1.5	M52xP1.5		
3-797-2080	0.8661		3.1496	5.1181	5.8661	M60xP2.0			M58xP1.5	PT-1/2		
3-797-2080G	0.9843		6.1024	3.4646	1.5748	5.8661			M75xP2.0		M74xP1.5	
3-797-2100			6.4961	3.6417	6.4961	6.4961			M85xP2.0	M84xP2.0		

Prices are subject to change without notice

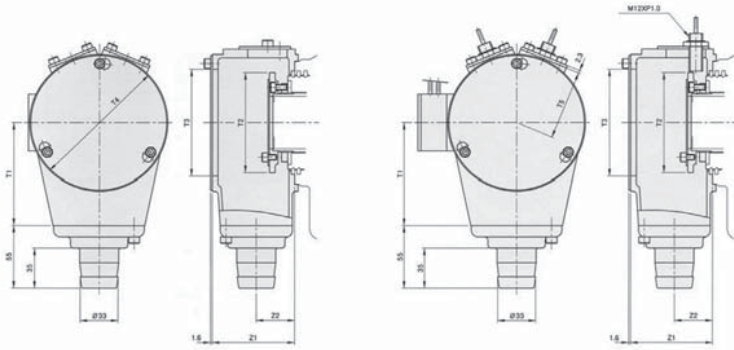


Power Coolant Collectors

TOOLMEX
Industrial Solutions

POWER COOLANT COLLECTORS

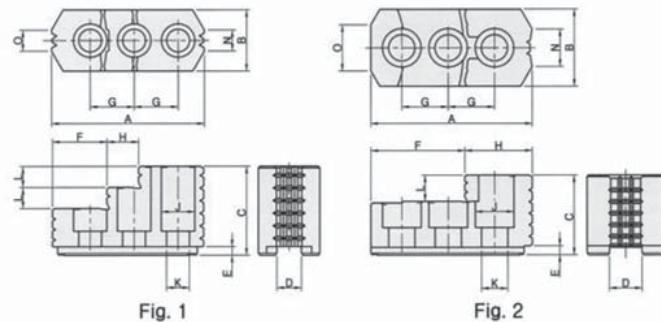
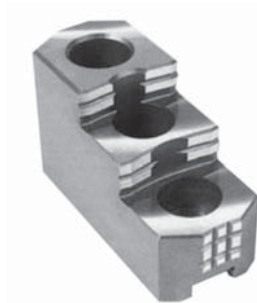
Coolant Collectors **NEW!**



Coolant Collector Part Number	Retail Price	Coolant Collector + Proximity Switch Part Number	Retail Price	T1	T2	T3	T4	T5	Z1	Z2
				in						
3-795-060A	On Request	3-795-060B	On Request	3.5433	3.4646	3.7008	4.7638	2.4016	2.8543	1.3386
3-795-080A		3-795-080B		3.9370	3.9370	4.1732	5.1969	2.6378	3.0906	
3-795-100A		3-795-100B		4.9213	4.9213	5.1969	6.2205	3.1496	3.2480	
3-795-120A		3-795-120B		5.5118	5.7087	6.1024	7.2835	3.7402	3.4449	

Matching Cylinder Part Number	Retail Price
3-797-060	1,779.68
3-797-080	2,277.52
3-797-100	3,085.04
3-797-120	4,190.48

Hard Top Jaws, Serration 1.5mm x 60



Chuck Dia	Part Number	Retail Price	Fig	Serration	A	B	C	D	E	F	G	H	J	K	L	M	N	O
6"	3-787-306	On Request	1	1.5x60°	2.9724	1.2205	1.6142	0.4724	0.1969	1.1811	0.7874	0.4724	0.6890	0.4331	0.3937	0.3937	0.5906	-
8"	3-787-308				3.4252	1.5354	2.0079	0.5512		1.0630	0.9843	0.8661	0.7480	0.5118	0.4724	0.4724	0.4724	0.5906
10"	3-787-310				3.9764	0.3937	2.1260	0.6299		1.6929	1.1811	6.8504			0.5118	0.5906	0.5906	0.7087
12"	3-787-312				4.1654	1.9685	2.0472	0.8268		2.3819	1.7835	0.9843	0.6693	0.6693	1.1811	1.1811	0.5906	
15"	3-787-315	On Request	1	3.0x60°	6.2677	2.4409	3.3858	0.8661	0.3150	2.5984	1.6929	1.3780	1.2598	0.8268	0.7874	1.5748	1.5748	1.1811
21"	3-787-321		2		6.2795	3.1496	3.5433	0.9843	0.0787	4.0740	1.9685	2.2126		0.8661	1.5748	2.1654	-	1.5748

Prices are subject to change without notice

Soft Top Jaws, Serration 1.5mm x 60

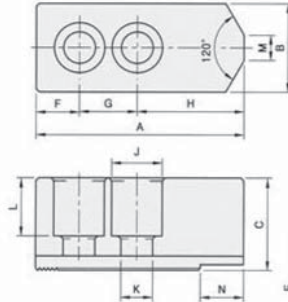


Fig. 1

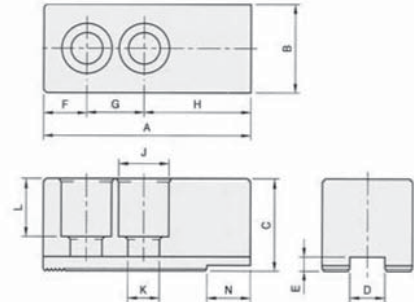


Fig. 2

Chuck Dia	Part Number	Fig	Serration	A	B	C	D	E	F	G	H	J	K	L	M	N
6"	3-788-306	1	1.5x60°	2.8346	1.2205	1.2402	0.4724	0.1969	0.5906	0.7874	1.4567	0.6890	0.4331	0.7677	0.4724	0.5906
8"	3-788-308			3.7402	1.4567	1.4764	0.5512		0.7874	0.9843	1.9685	0.7874	0.5512	0.8858		
10"	3-788-310			4.3307	1.7323	1.752	0.6299		1.1811	1.1811	2.3622	0.9843	0.6693	1.2402	0.5906	0.7874
12"	3-788-312			4.3701	1.9291	1.9488	0.8268		0.8268	2.3622	0.9843	0.6693	1.2402	0.5906	0.7874	
15"	3-788-315	2	3.0x60°	6.4961	2.3228	2.3425	0.8661	0.315	1.8504	1.6929	2.9528	1.2598	0.8661	1.4173	-	-
21"	3-788-321			7.0866			0.9843	0.374	1.5748	2.3622	3.1496				-	-

Chuck Dia	Part Number	Retail Price
6"	3-788-306	113.40
8"	3-788-308	134.14
10"	3-788-310	167.67
12"	3-788-312	223.56
15"	3-788-315	447.12
21"	3-788-321	655.00

Draw Tube Nut Blanks

Chuck Dia	Part Number	Retail Price
6"	3-789-0601	110.00
8"	3-789-0801	134.96
10"	3-789-1001	150.00
12"	3-789-1201	149.04
15"	3-789-1501	223.56

T-nuts

Chuck Dia	Part Number	Retail Price	A	B	C	F	G	H (h6)	Bolt Size
6-1/4"	3-789-906	145.80	0.0271	0.0543	0.0287	0.0310	0.0116	0.0186	M10*P1.5
8"	3-789-908	178.20	0.0318	0.0713	0.8071	0.0318	0.0131	0.0217	M12*P1.75
10"	3-789-910	200.88	0.0348	0.0790	0.0333	0.0440	0.0131	0.0248	M12*P1.75
12-1/2"	3-789-912	233.28	0.0456	0.0829	0.0426	0.0465	0.0178	0.0325	M16*P2.0
15-3/4"	3-789-915	336.96	0.0519	0.1240	0.0705	0.0666	0.0256	0.0372	M20*P2.5

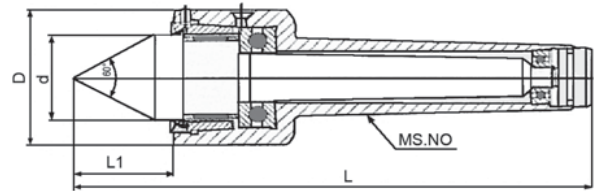
Prices are subject to change without notice



Live Centers

Precision Live Centers 0.005mm / 0.0002 "

- Machined from one piece of forging
- Hardened and precisely ground
- Spindle is made of high quality Alloy Steel, heat treated to RC 60 – 62
- Centers are provided with three selected heavy duty precision bearings
- Bearings are protected against dust and coolant



Morse Taper	Part Number	Retail Price	Maximum Wt of Workpiece lbs	RPM max	Accuracy Radial Run Out	D	d	L	L1	Wt lbs
1	3-901-001	58.44	220	6000	0.0002	1.3386	0.7087	4.5669	0.95	0.64
2	3-901-002	84.44	750	6000	0.0002	1.4173	0.8661	4.9213	1.00	0.79
3	3-901-003	105.88	900	5000	0.0002	1.8504	1.1811	6.378	1.26	1.9
4	3-901-004	124.15	2866	4000	0.0002	2.1654	1.378	7.6378	1.48	3.15
5	3-901-005	158.69	4409	3500	0.0002	2.7559	1.7717	9.4488	1.85	6.7
6	3-901-006	354.40	8818	2500	0.0002	3.5433	2.3622	12.5197	2.44	15.9

TMX High Pressure Chuck Lubricant

TMX Chuck Lubricant	Part Number	Retail Price
16 oz	3-799-025	28.00



Prices are subject to change without notice

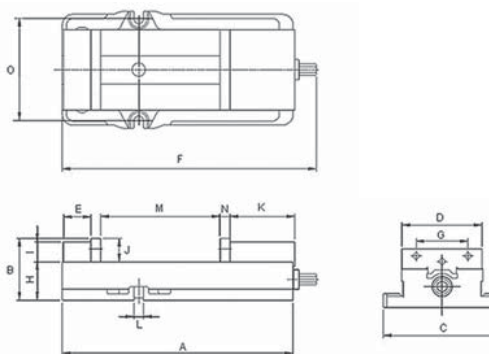
Precision Clamping Vises

For all of your CNC Milling Machines needs whether heavy milling, boring, tapping, drilling, or grinding. TMX vises deliver the same proven accuracy every time. Improving on industry standards; TMX Vises are ultra precision in flatness, parallelism and verticality.

Features

- 10 Year Warranty
- Body made from high quality ductile Iron hardened to 45RC
- Sealed bearing system increases the life of the vise
- Close tolerance bed heights for excellent accuracy
- Anti-lift mechanism keeps the work piece from lifting
- Chip cover for lead screw protection

10 YEAR WARRANTY



Part Number	A	B	C	D	E	F	G	H (Bed height)	I	J	K	L	M	N	O	Wt lbs	Max Clamping Force
3-220-006	17.008	4.627	9.252	5.984	2.047	19.094	3.875	2.875" +/- 0.0005"	1.496	1.752	4.843	0.688	7.559	0.709	7.64	79	8,200 lbs
3-220-0068	17.205	4.627	8.750	5.984	2.047	18.937	3.875	2.875" +/- 0.0005"	1.496	1.752	4.843	0.688	8.898	0.709	7.64	80	9,840 lbs
3-220-0081	21.850	5.515	11.614	7.992	2.283	23.031	4.724	3.310" +/- 0.0005"	1.969	2.205	6.181	0.813	10.433	0.953	10.00	150	11,600 lbs

Part Number	Retail Price
3-220-006	467.74
3-220-0068	539.00
3-220-0081	1,055.05

Prices are subject to change without notice

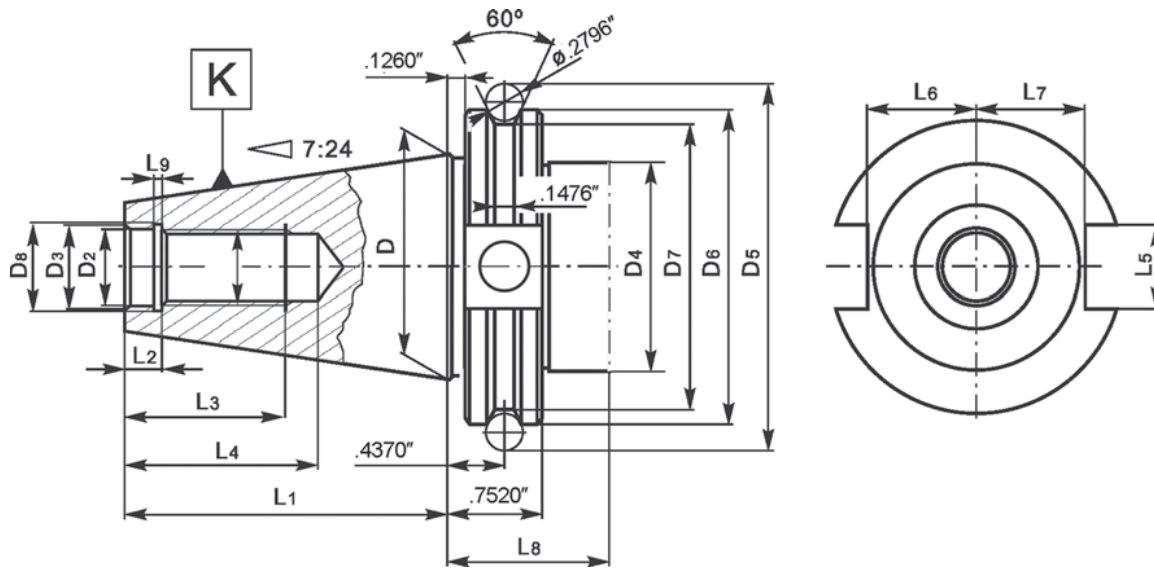


CAT V-Flange Tooling



TMX Caterpillar V-Flange Tooling Flange Sizes per ANSI B5.50-1994

- Produced according to AT3 specifications
- Made of Alloy Forged Steel for a long, durable service life
- Hardened to RC 56-60 and ground to ensure maximum accuracy
- Retention knobs sold separately
- Draw Bar Threads: CAT 40 5/8"-11 and CAT 50 1"-8



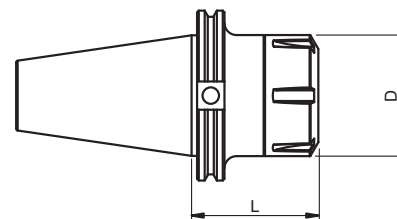
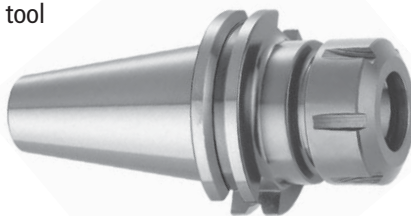
Flange Sizes per ANSI B5.50-1994

Taper Size	D	D2 H8	D3	D4 ± .002"	D5 ± .002"	D6" -.004"	D7 -.02"	D8	L1	L2	L3	L4 min	L5 ± .01"	L6	L7	L8 min	L9
40	English Sizes (inches)																
	1.75	.6409	.7205	1.750	2.8457	2.5020	2.2287	.669	2.6929	.217	1.2598	1.6614	.6449	.9843	.8898	1.3858	.0394
50	Metric Sizes (mm)																
	44.45	16.28	18.3	44.45	72.28	63.55	56.61	17	68.4	5.5	32	42.2	16.38	25	22.6	35.2	1
40	English Sizes (inches)																
	2.75	1.0307	1.122	2.750	4.2209	3.8772	3.5925	1.063	4.0060	.276	1.8504	2.4213	1.0197	1.4843	1.3898	1.3858	.0394
50	Metric Sizes (mm)																
	69.85	26.18	28.5	69.85	107.21	98.48	91.25	27	101.75	7	47	61.5	25.9	37.7	35.3	35.2	1

Prices are subject to change without notice

ER Collet Chucks CAT 40

- Balanced to 25,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel Plated for longevity
- Individual lab certificate included with each tool
- Threaded through hole for stop screws
- Wrench not included



Taper Size	Part Number	Retail Price	Collet Type D	Clamping Range	L
40	3-188-003	128.10	ER11	1/32-1/4	3
	3-188-009	141.75	ER16	1/8-7/16	2.76
	3-188-015	159.60			4
	3-188-016	159.60			6
	3-188-017	159.60			8
	3-188-018	159.60			2.76
	3-188-021	159.60	ER20	1/8-1/2	4
	3-188-022	159.60			6
	3-188-023	159.60			8
	3-188-024	159.60	ER25	1/8-5/8	2.5
	3-188-025	159.60			2.76
	3-188-027	159.60			4
	3-188-028	159.60			6
	3-188-029	159.60	ER32	1/8-3/4	8
	3-188-6432	152.96			Short
	3-188-030	159.60			2.76
	3-188-036	159.60			4
	3-188-046	159.60			6
	3-188-048	159.60	8		
	3-188-141	153.72	ER40	1/8-1	3.15
3-188-144	145.95	ER40	4		
3-188-146	91.88	ER40	6		
3-188-148	91.88	ER40	8		
3-188-154	118.13	ER50	1/2-1-1/4		4

Wrench Part Number	Retail Price	Nut Part Number	Retail Price
3-790-111	23.00	3-791-011H	25.20
3-790-116	16.70	3-791-016H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-025B	30.24	3-791-025B	36.75
7-193-918	18.26	3-791-132	37.54
3-790-032B	33.39	3-791-032B	40.16
3-790-040B	39.69	3-791-040B	50.66
3-790-050B	47.25	3-791-050B	64.58

Prices are subject to change without notice

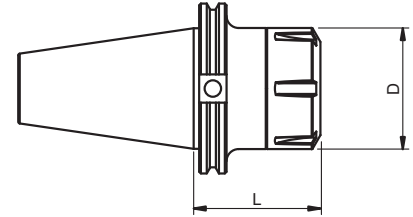
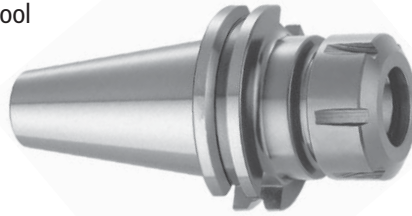


CAT V-Flange Tooling



ER Collet Chucks CAT 50

- Balanced to 25,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel Plated for longevity
- Individual lab certificate included with each tool
- Threaded through hole for stop screws
- Wrench not included



Taper Size	Part Number	Retail Price	Collet Type D	Clamping Range	L
50	3-188-500	131.25	ER16	1/8-7/16	4
	3-188-501	144.38			6
	3-188-502	144.38			8
	3-188-503	144.38			10
	3-188-504	173.25	ER20	1/8-1/2	4
	3-188-505	173.25			6
	3-188-506	189.00			8
	3-188-507	157.50			10
	3-188-508	173.25	ER25	1/8-5/8	4
	3-188-509	173.25			6
	3-188-510	189.00			8
	3-188-511	157.50			10
	3-188-6532	126.00	ER32	1/8-3/4	Short
	3-188-513	157.50			4
	3-188-514	173.25			6
	3-188-515	189.00			8
	3-188-516	157.50	ER40	1/8-1	10
	3-188-520	173.25			4
	3-188-521	173.25			6
	3-188-522	189.00			8
	3-188-523	157.50	ER50	1/2-1-1/4	10
	3-188-524	131.25			4
	3-188-525	146.48			6
	3-188-528	170.63			8

Wrench Part Number	Retail Price	Nut Part Number	Retail Price
3-790-116	16.70	3-791-016H	25.20
3-790-116	16.70	3-791-016H	25.20
3-790-116	16.70	3-791-016H	25.20
3-790-116	16.70	3-791-016H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-025B	30.24	3-791-025B	36.75
3-790-025B	30.24	3-791-025B	36.75
3-790-025B	30.24	3-791-025B	36.75
3-790-025B	30.24	3-791-025B	36.75
7-193-918	18.26	3-791-132	37.54
3-790-032B	33.39	3-791-032B	40.16
3-790-032B	33.39	3-791-032B	40.16
3-790-032B	33.39	3-791-032B	40.16
3-790-032B	33.39	3-791-032B	40.16
3-790-040B	39.69	3-791-040B	50.66
3-790-040B	39.69	3-791-040B	50.66
3-790-040B	39.69	3-791-040B	50.66
3-790-040B	39.69	3-791-040B	50.66
3-790-050B	47.25	3-791-050B	64.58
3-790-050B	47.25	3-791-050B	64.58
3-790-050B	47.25	3-791-050B	64.58

Back Up Adjustment Screws for ER Collet Chucks

- Adjustable for setting tool lengths

Part Number	Retail Price	Collet Size
3-794-011	3.91	ER11
3-794-016	3.91	ER16
3-794-020	3.91	ER20
3-794-025	4.10	ER25
3-794-032	4.10	ER32
3-794-040	5.04	ER40



Prices are subject to change without notice

End Mill Holders CAT 40

- Balanced to 15,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel plated for longevity
- Individual lab certificate included with each tool
- .0002" TIR or better to ensure minimal run-out
- Designed for single end mills only

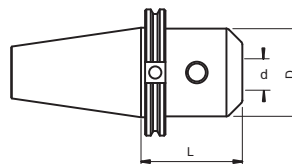
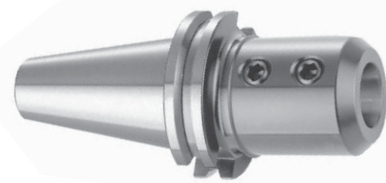


FIG. 1

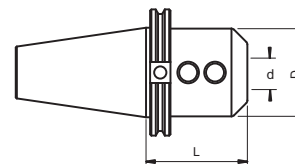


FIG. 2

Taper Size	Part Number	Retail Price	d	L	D	Figure	Set Screw
40	3-185-4102	89.04	1/8	1.75	0.75	1	#6-32
	3-185-4004	101.22		2.37			
	3-185-4205	97.13	5				
	3-185-4106	97.44	1.75				
	3-185-4008	97.23	3/16	2.5	0.79		#8-32
	3-185-4209	97.13		4.72			
	3-185-4112	94.71	1/4	1.75	0.87		1/4-28
	3-185-4014	82.74		2.5			
	3-185-4409	80.43		3			
	3-185-4294	90.41		4.72			
	3-185-4298	90.41	5/16	8	1		5/16-24
	3-185-4118	86.52		1.75			
	3-185-4020	83.16		2.5			
	3-185-4021	83.16		3			
	3-185-4222	84.00	3/8	4.72	1.38		7/16-20
	3-185-4223	84.00		8			
	3-185-4124	89.04		1.75			
	3-185-4025	89.78		2.5			
	3-185-4026	89.78	7/16	3	1.65		1/2-20
	3-185-4227	84.00		4.72			
	3-185-4228	84.00		8			
	3-185-4129	89.04		1.75			
	3-185-4030	83.16	1/2	2.5	1.75		5/8-18
	3-185-4134	87.36		1.75			
	3-185-4036	80.96		2.5			
	3-185-4037	80.96		3			
	3-185-4238	133.35	5/8	4.72	2		3/4-16
	3-185-4239	133.25		8			
	3-185-4140	86.21		1.75			
	3-185-4431	79.59		3			
	3-185-4042	94.40	3/4	3.75	2.36		3/4-16
	3-185-4246	133.25		8			
	3-185-4148	86.21		1.75			
	3-185-4049	86.21		3			
	3-185-4050	86.21	7/8	3.5	2.48		3
	3-185-4251	133.25		8			
	3-185-4056	112.35		3.5			
	3-185-4160	92.93		1.75			
	3-185-4061	116.55	1	3	2.36		3/4-16
	3-185-4062	116.55		4			
3-185-4265	133.25	8					
3-185-4166	92.93	2					
3-185-4068	96.08	1-1/4	4	2.48	3		
3-185-4070	96.08		4.6				
3-185-4272	133.25		8				
3-185-4074	96.08		4.5				
3-185-4276	133.25	1-1/2	8	3			

Prices are subject to change without notice



CAT V-Flange Tooling

TOOLMEX
Industrial Solutions

CAT V-FLANGE TOOLING

End Mill Holders CAT 50

- Balanced to 15,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel plated for longevity
- Individual lab certificate included with each tool
- .0002" TIR or better to ensure minimal run-out
- Designed for single end mills only

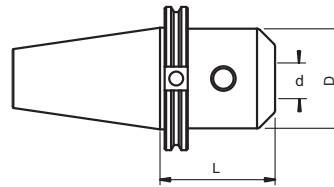
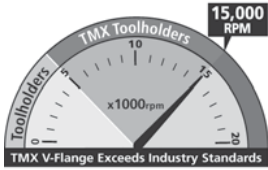
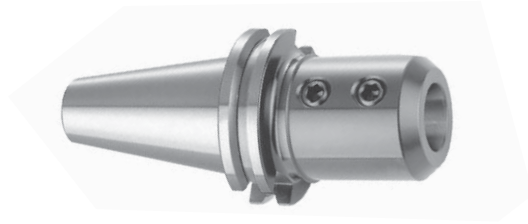


FIG. 1

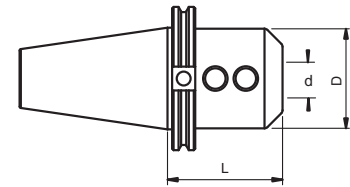


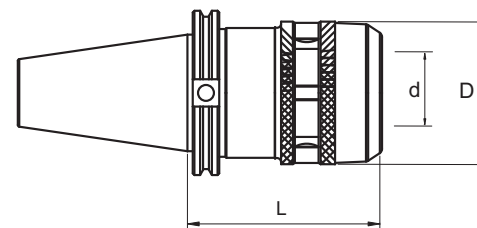
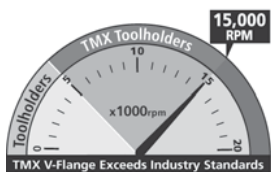
FIG. 2

Taper Size	Part Number	Retail Price	d	L	D	Figure	Set Screw
50	3-185-5102	157.50	1/4	2.5	.780	1	1/4-28
	3-185-50101	163.80		4			
	3-185-5200	196.88		6.5			
	3-185-5011	163.80	5/16	4	.875		5/16-24
	3-185-5110	157.50	3/8	2.5	1		3/8-24
	3-185-5012	163.80		4			
	3-185-5213	196.88		6.5			
	3-185-5124	153.30	1/2	2.67	1.25		7/16-20
	3-185-5021	163.80		4			
	3-185-5223	196.88		6.5			
	3-185-5225	196.88	5/8	10	1.5		1/2-20
	3-185-5134	153.30		1.44			
	3-185-5031	163.80		3			
	3-185-5032	130.20	3/4	4	1.75		5/8-18
	3-185-5233	220.50		7.25			
	3-185-5235	196.88		10			
	3-185-5142	153.30	7/8	1.44	1.88		3/4-16
	3-185-5041	163.80		3			
	3-185-5042	163.80		4			
	3-185-5243	196.88	1	7.25	2		3/4-16
	3-185-5247	243.08		10			
	3-185-5054	130.73		4			
	3-185-5056	130.73	6	2			
	3-185-5160	159.08	2.62		2.5		
	3-185-5061	173.25	4				2
	3-185-5263	210.94	8	2.5			
	3-185-5267	257.78	12		2		
	3-185-5170	159.08	2.62				2.5
	3-185-5071	173.25	4.6	2			
	3-185-5180	163.28	2		2.5		
3-185-5081	173.25	4.6	2				
3-185-5091	220.50	2		6		3.5	1"-14

Prices are subject to change without notice

Milling Chucks CAT 40 and 50

- Balanced to 15,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel plated for longevity
- Individual lab certificate included with each tool
- .0002" TIR or better to ensure minimal run-out
- Designed for rough milling operations
- Wrench not included
- Straight Collets sold separately



Taper Size	Part Number	Retail Price	L	D	d	Wrench Part Number	Retail Price
40	3-320-001	393.75	3.385	2.047	0.75	3-790-220	7.88
	3-320-006	393.75	4.13				
	3-320-010	393.75	4.53				
50	3-320-050	525.00	4.13	2.047	0.75	3-790-220	7.88
	3-320-052	525.00		2.716	1.25	3-790-232	10.40

For collets see page 694



Prices are subject to change without notice



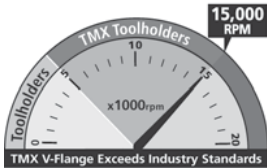
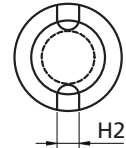
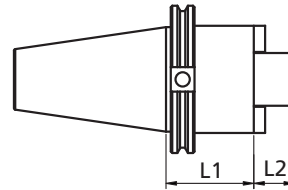
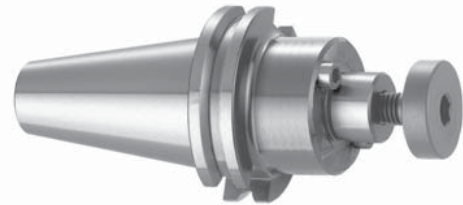
CAT V-Flange Tooling

TOOLMEX
Industrial Solutions

CAT V-FLANGE TOOLING

Shell End Mill Holders CAT 40 and 50

- Balanced to 15,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel plated for longevity
- Individual lab certificate included with each tool
- .0002" TIR or better to ensure minimal run-out
- Coolant through

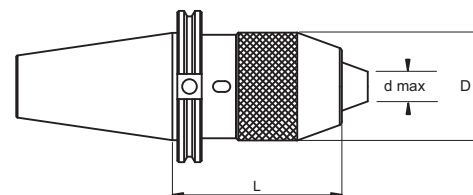


Taper Size	Part Number	Retail Price	d	L1	L2	H2	Coolant Thru		
40	3-186-005	131.25	0.5	1.37	0.57	0.25	Y		
	3-186-008	131.25		4					
	3-186-010	126.53	0.75	1.37		0.3125			
	3-186-015	147.53		4					
	3-186-016	147.53		6					
	3-186-020	144.90	1	2.6		0.687		0.375	
	3-186-025	140.18		4					
	3-186-026	140.18	1.25	6		0.5			
	3-186-030	144.90		2.21					
	3-186-035	152.78		4					
	3-186-036	152.78	1.5	6		0.938		0.625	N
	3-186-040	179.55		2.21					
	3-186-045	195.83	4						
50	3-186-503	164.85	0.5	1.5	0.687	0.25	Y		
	3-186-505	179.55	1.25	8		0.5			
	3-186-509	167.48	0.75	1.5		0.3125			
	3-186-511	181.65		3.5					
	3-186-512	189.00	1.5	8		0.625			
	3-186-513	196.35	0.75	5.5		0.3125			
	3-186-5132	196.35		8					
	3-186-515	155.93	1	2		0.375			
	3-186-517	181.65		4					
	3-186-519	196.35		6					
	3-186-5192	196.35	1.25	8		0.5			
	3-186-521	159.60		1.5					
	3-186-523	188.48		3.5					
	3-186-525	203.18	1.5	6		0.625			
	3-186-527	191.63		2.4					
	3-186-529	203.70	2	4		0.938		0.75	N
	3-186-531	217.88		6					
	3-186-533	266.70		2.4					
	3-186-535	284.03	2	4		0.75			
	3-186-537	304.50		6					

Prices are subject to change without notice

Integral Drill Chucks CAT 40 and 50

- Balanced to 15,000 RPM at G2.5
- Extremely accurate
- 3 times better clamping compared to keyed chucks
- Taper ground to AT3 standards or better
- Nickel plated for longevity
- All ground internal parts
- Wrench not included



Taper Size	Part Number	Retail Price	L	D	d
40	3-183-1403	170.10	3.23	1.454	5/16
	3-183-2433	211.05	4.527	1.968	1/2
	3-183-2435	226.28	4.724	2.244	5/8
50	3-183-1503	285.39	3.54	1.968	1/2
	3-183-1504	422.10	3.7	2.244	5/8

Wrench	Retail Price
3-790-208S	5.46
3-790-213S	4.20
3-790-216S	5.46
3-790-213S	4.20
3-790-216S	5.46

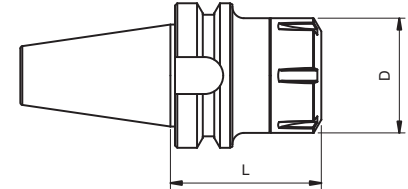
Prices are subject to change without notice



BT Flange Tooling

ER Collet Chucks BT 30 and 40

- Balanced to 25,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel Plated for longevity
- Individual lab certificate included with each tool
- Threaded through hole for stop screws
- Wrench not included



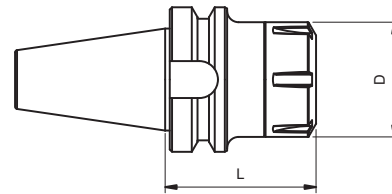
Taper Size	Part Number	Retail Price	D	Clamping Range	L
30	3-178-306	57.75	ER16	1/8-7/16	2.36
	3-178-307	57.75			2.76
	3-178-309	57.75			3.54
	3-178-319	57.75			3.94
	3-178-312	57.75			4.72
	3-178-320	57.75	ER20	1/8-1/2	2.50
	3-178-321	57.75			2.76
	3-178-322	57.75			5.31
	3-178-325	57.75	ER25	1/8-5/8	2.36
	3-178-327	57.75			2.76
	3-178-328	57.75			3.54
	3-178-329	57.75			5.31
	3-178-326	57.75	ER32	1/8-3/4	2.36
	3-178-332	57.75			2.76
3-178-336	57.75	3.94			
3-178-348	65.63	ER40	1/8-1	3.15	
40	3-178-412	118.13	ER16	1/8-7/16	2.76
	3-178-414	118.13			3.94
	3-178-416	118.13			4.92
	3-178-418	118.13			5.91
	3-178-419	118.13			7.09
	3-178-421	118.13	ER20	1/8-1/2	2.76
	3-178-422	118.13			3.94
	3-178-423	118.13			5.31
	3-178-446	118.13			5.91
	3-178-425	118.13	ER25	1/8-5/8	2.76
	3-178-426	118.13			3.94
	3-178-427	118.13			5.91
	3-178-130	65.63	ER32	1/8-3/4	short
	3-178-432	118.13			2.76
	3-178-434	118.13			3.94
	3-178-436	118.13			5.91
	3-178-442	118.13	ER40	1/8-1	3.15
	3-178-444	118.13			3.94

Wrench	Retail Price	Nut	Retail Price
3-790-116	16.70	3-791-016H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-025B	30.24	3-791-025B	36.75
3-790-032B	33.39	3-791-032B	40.16
3-790-040B	39.69	3-791-040B	50.66
3-790-116	16.70	3-791-016H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-025B	30.24	3-791-025B	36.75
7-193-918	18.26	3-791-132	37.54
3-790-032B	33.39	3-791-032B	40.16
3-790-040B	39.69	3-791-040B	50.66

Prices are subject to change without notice

ER Collet Chucks BT 50

- Balanced to 25,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel Plated for longevity
- Individual lab certificate included with each tool
- Threaded through hole for stop screws
- Wrench not included



Taper Size	Part Number	Retail Price	D	Clamping Range	L
50	3-178-510	118.13	ER16	1/8-7/16	2.76
	3-178-512	118.13			3.54
	3-178-514	118.13			4.13
	3-178-515	118.13			5.31
	3-178-516	191.10			5.91
	3-178-520	118.13	ER20	1/8-1/2	3.54
	3-178-521	118.13			4.13
	3-178-522	118.13			5.31
	3-178-523	144.38			6.50
	3-178-524	157.50			7.87
	3-178-525	131.25	ER25	1/8-5/8	4.13
	3-178-526	131.25			4.72
	3-178-527	144.38			5.31
	3-178-528	157.50			6.50
	3-178-529	170.63			7.87
	3-178-532	131.25	ER32	1/8-3/4	3.15
	3-178-534	144.38			4.72
	3-178-535	157.50			5.91
	3-178-542	131.25	ER40	1/8-1	3.15
	3-178-544	157.50			5.31
3-178-546	183.75	6.89			
3-178-548	183.75	7.68			
3-178-549	202.13	ER50			1/2-1-1/4

Wrench	Retail Price	Nut	Retail Price
3-790-116	16.70	3-791-016H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-025B	30.24	3-791-025B	36.75
3-790-032B	33.39	3-791-032B	40.16
3-790-040B	39.69	3-791-040B	50.66
3-790-050B	47.25	3-791-050B	64.58

Prices are subject to change without notice



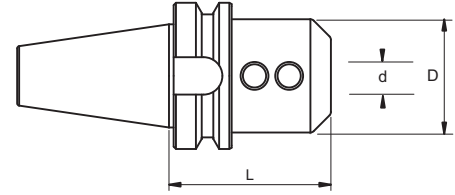
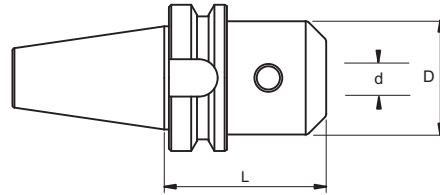
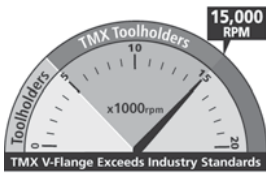
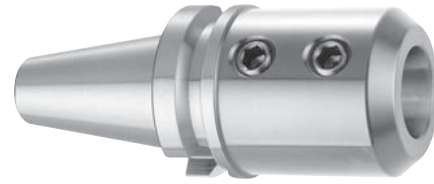
BT Flange Tooling

TOOLMEX
Industrial Solutions

BT FLANGE TOOLING

End Mill Holders BT 30 and 40

- Balanced to 15,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel plated for longevity
- Individual lab certificate included with each tool
- .0002" TIR or better to ensure minimal run-out
- Designed for single end mills only

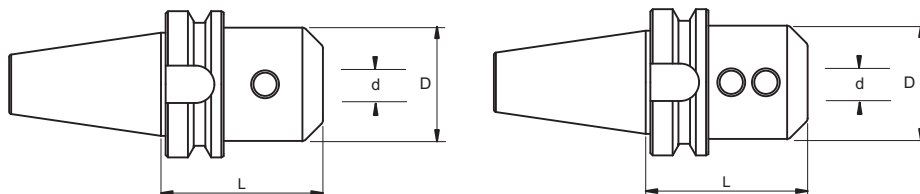
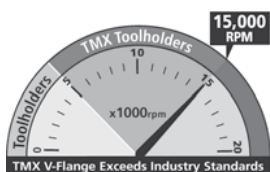
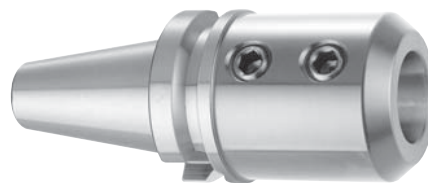


Taper Size	Part Number	Retail Price	d	L	D	Figure	Set Screw
30	3-179-300	65.63	1/8	2.36	0.75	1	8-32
	3-179-302	89.25	3/16		0.79		10-32
	3-179-304	89.25	1/4		0.87		1/4-28
	3-179-306	89.25	5/16		1		5/16-24
	3-179-311	89.25	3/8	2.36	1.38		3/8-24
	3-179-315	89.25	7/16		1.65		7/16-20
	3-179-321	89.25	1/2		1.88		9/16-18
	3-179-331	89.25	5/8	3	1.88		5/8-18
	3-179-341	89.25	3/4		2.36		34-16
	3-179-362	110.52	1		2		34-16
40	3-179-400	57.75	1/8	2.5	0.787	1	8-32
	3-179-402	87.05	3/16				10-32
	3-179-404	87.05	1/4				1/4-28
	3-179-406	87.05	1/4	4	0.87		5/16-24
	3-179-407	85.16	5/16	2.5			3/8-24
	3-179-411	85.16	3/8		1.12		7/16-20
	3-179-415	88.94	3/8				1.5
	3-179-418	88.94	7/16	4.5	1.62		9/16-18
	3-179-421	85.16	1/2				
	3-179-425	88.94	1/2	4	1.75		5/8-18
	3-179-431	85.16	5/8				
	3-179-435	88.94	5/8	6	2.69		
	3-179-441	87.05	3/4				3.56
	3-179-445	90.83	3/4	6	2.88		
	3-179-461	91.56	1				3.56
	3-179-465	96.50	1	6	2.88		
	3-179-475	94.50	1-1/4				3.56
	3-179-480	94.50	1-1/4	6	2.88		
3-179-482	94.50	1-1/2	3.56			2.88	
3-179-484	94.50	1-1/2		6	2.88		

Prices are subject to change without notice

End Mill Holders BT 50

- Balanced to 15,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel plated for longevity
- Individual lab certificate included with each tool
- .0002" TIR or better to ensure minimal run-out
- Designed for single end mills only



Taper Size	Part Number	Retail Price	d	L	D	Figure	Set Screw
50	3-179-500	147.53	1/4	3.00	1.12	1	M6
	3-179-511	130.20	3/8	2.75			
	3-179-521	130.73	1/2	3.00			1.5
	3-179-531	130.73	5/8				1.62
	3-179-541	131.25	3/4				1.75
	3-179-561	142.28	1	4.50	2.48	2	M18
	3-179-566	142.28		6.00			
	3-179-571	147.53	1-1/4	4.50	2.69	M20	
	3-179-576	147.53		6.00			
	3-179-581	168.00	1-1/2	4.50	2.88		
	3-179-586	168.00		6.00			
	3-179-591	203.70	2	6.00	3.62	M24	

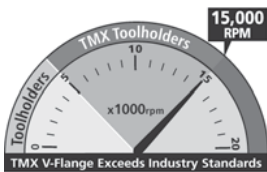
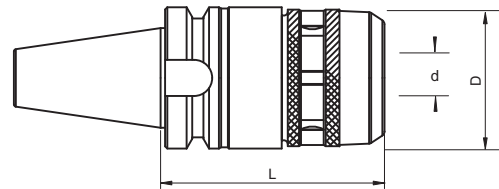
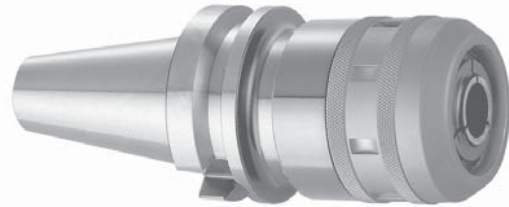
Prices are subject to change without notice



BT Flange Tooling

Milling Chucks BT 30, 40 and 50

- Balanced to 15,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel plated for longevity
- Individual lab certificate included with each tool
- .0002" TIR or better to ensure minimal run-out
- Designed for rough milling operations
- Wrench not included
- Collets sold separately



Taper Size	Part Number	Retail Price	L	D	d
30	3-321-003	393.75	3.14	2.05	C20mm
40	3-321-006	393.75	3.93	2.047	C20mm
	3-321-007	393.75	5.31		
	3-321-010	393.75	4.13	2.756	C32mm
50	3-321-012	525.00	4.13	2.28	C20mm
	3-321-014	525.00	4.33	2.76	C32mm

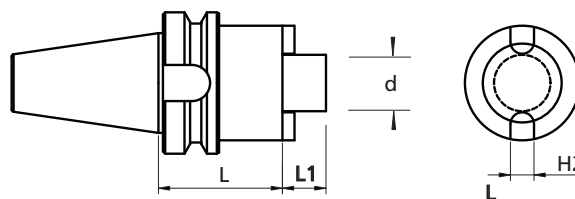
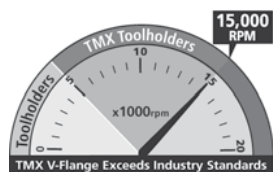
Wrench	Retail Price
3-790-220	7.88
3-790-220	7.88
3-790-232	10.40
3-790-220	7.88
3-790-232	10.40

For collets please see page 694

Prices are subject to change without notice

Shell End Mill Holders BT 30, 40 and 50

- Balanced to 15,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel plated for longevity
- Individual lab certificate included with each tool
- .0002" TIR or better to ensure minimal run-out
- Designed for rough milling operations
- Wrench included with each holder
- Coolant through



Taper Size	Part Number	Retail Price	d	L	L1	H1	H2
30	3-176-303	52.50	0.75	1.18	0.67	0.188	0.3125
	3-176-307	52.50	1	1.77			0.375
	3-176-310	52.50	1.25				
40	3-176-404	91.88	3/4	1.00	0.69	0.188	0.3125
	3-176-405	91.88		4.00			
	3-176-406	91.88		6.00			
	3-176-407	116.03	1.77	0.375			
	3-176-408	91.88	3.54				
	3-176-409	124.43	1.77	0.25		0.5	
	3-176-410	91.88	1.25				4.00
	3-176-411	136.50	1.500				2.36
50	3-176-515	173.78	1	1.77	0.69	0.188	0.375
	3-176-521	177.98	1.25			0.25	0.5
	3-176-527	186.38	1.5		0.92	0.349	0.625
	3-176-533	211.05	2			0.384	0.75

Prices are subject to change without notice



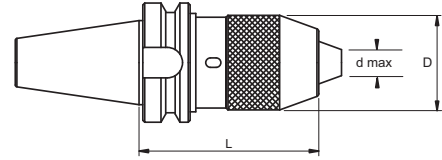
BT Flange Tooling

TOOLMEX
Industrial Solutions

BT FLANGE TOOLING

Integral Drill Chucks BT 30, 40 and 50

- Extremely accurate
- 3 times better clamping compared to keyed chucks.
- Nickel plated for longevity
- All ground internal parts
- Wrench not included



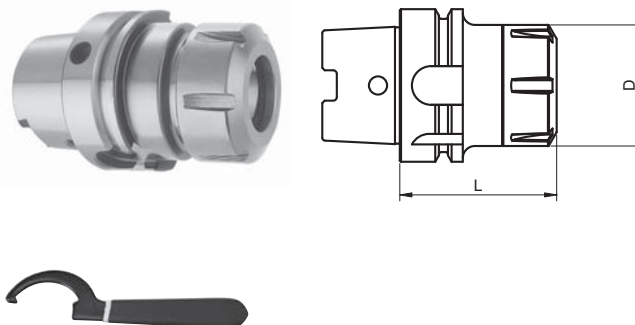
Taper Size	Part Number	Retail Price	L	D	d
30	3-174-307	191.21	2.95	1.46	5/16
	3-174-310	191.21	3.94	1.97	1/2
40	3-174-408	191.21	3.35	1.46	5/16
	3-174-433	191.21	3.74	1.97	1/2
	3-174-434	201.60	5.12		
	3-174-435	212.00	5.91		
	3-174-436	212.00	4.72	2.24	5/8
50	3-174-563	254.21	4.33	1.97	1/2
	3-174-564	280.35	5.91		
	3-174-565	285.71	4.33		
	3-174-566	311.85	5.12	5/8	
	3-174-567	322.25	5.71		2.24

Wrench Part Number	Retail Price
3-790-208S	5.46
3-790-213S	4.20
3-790-208S	5.46
3-790-213S	4.20
3-790-216S	5.46
3-790-213S	4.20
3-790-216S	5.46

Prices are subject to change without notice

ER Collet Chucks HSK 50A, 63A and 100A

- Balanced to 25,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel Plated for longevity
- Individual lab certificate included with each tool
- Threaded through hole for stop screws
- Wrench not included



Shank	Part Number	Retail Price	Clamping Ranges	D	L
50A	3-305-5160	105.00	.019-.406"	ER16	3.15
	3-305-5162	105.00			3.94
	3-305-5164	105.00			4.72
	3-305-5200	105.00	.039-.511"	ER20	3.15
	3-305-5202	105.00			3.94
	3-305-5204	112.88			4.72
	3-305-5250	112.88	.039-.629"	ER25	3.15
	3-305-5252	118.13			3.94
	3-305-5254	118.13			5.31
	3-305-5320	118.13	.078-.787"	ER32	3.94
3-305-5322	118.13	5.31			
63A	3-305-6080	131.25	.019-.406"	ER16	3.15
	3-305-6100	131.25			3.94
	3-305-6120	131.25			4.72
	3-305-6165	209.69	.039-.629"	ER25	3.15
	3-305-6170	131.25	.039-.511"	ER20	3.94
	3-305-6175	131.25			4.72
	3-305-6185	131.25			3.94
	3-305-6190	131.25	.039-.629"	ER25	4.72
	3-305-6195	131.25			5.91
	3-305-6200	131.25			3.15
	3-305-6253	133.88	.078-.787"	ER32	3.15
	3-305-6321	135.45			3.94
	3-305-6322	131.25			5.71
	3-305-6324	155.30	.118-1.023"	ER40	3.15
	3-305-6401	142.80			4.72
	3-305-6402	131.25			3.94
3-305-6405	131.25	5.91			
3-305-6501	144.38	.250-1.338"	ER50	4.72	
100A	3-305-7108	262.50	.019-.406"	ER16	3.15
	3-305-7110	262.50			3.94
	3-305-7208	262.50	.039-.511"	ER20	3.15
	3-305-7210	262.50			3.94
	3-305-7510	262.50	.039-.629"	ER25	3.94
	3-305-7513	262.50			5.12
	3-305-7610	262.50			3.94
	3-305-7613	262.50	.078-.787"	ER32	5.31
	3-305-7615	262.50			5.91
	3-305-7710	262.50	.118-1.023"	ER40	3.94
	3-305-7712	262.50	.250-1.338"	ER50	4.72
	3-305-7751	315.00			3.94
	3-305-7752	315.00			4.72

Wrench	Retail Price	Nut	Retail Price
3-790-116	16.70	3-791-016H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-025B	30.24	3-791-025B	36.75
3-790-032B	33.39	3-791-032B	40.16
3-790-116	16.70	3-791-016H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-025B	30.24	3-791-025B	36.75
3-790-032B	33.39	3-791-032B	40.16
3-790-040B	39.69	3-791-040B	50.66
3-790-050B	47.25	3-791-050B	64.58
3-790-116	16.70	3-791-016H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-025B	30.24	3-791-025B	36.75
3-790-032B	33.39	3-791-032B	40.16
3-790-040B	39.69	3-791-040B	50.66
3-790-050B	47.25	3-791-050B	64.58

Prices are subject to change without notice

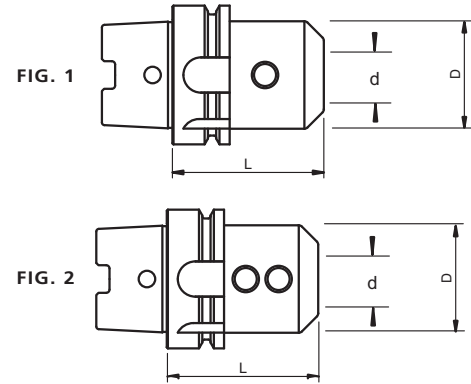
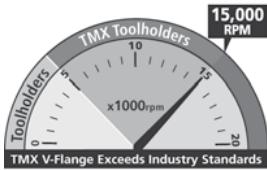


HSK Flange Tooling



End Mill Holders HSK 63A and 100A

- Balanced to 15,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel plated for longevity
- Individual lab certificate included with each tool
- .0002" TIR or better to ensure minimal run-out
- Designed for single end mills only

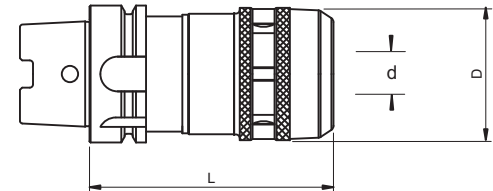


Shank	Part Number	Retail Price	d	L	D	Figure	Thread
63A	3-306-6002	264.08	1/8	2.5	0.78	1	#6-32
	3-306-6003	264.08	3/16	2.5	0.78	1	#8-32
	3-306-6008	264.08	1/4	2.5	0.78	1	1/4-28
	3-306-6012	273.00	1/4	4	0.78	1	1/4-28
	3-306-6014	264.08	5/16	2.5	0.87	1	5/16-24
	3-306-6018	264.08	3/8	2.5	1.12	1	3/8-24
	3-306-6022	264.08	3/8	4	1.12	1	3/8-24
	3-306-6024	264.08	7/16	3	1.25	1	3/8-24
	3-306-6026	264.08	1/2	3	1.5	1	7/16-20
	3-306-6032	307.91	1/2	4.5	1.5	1	7/16-20
	3-306-6034	264.08	5/8	3	1.62	1	1/2-20
	3-306-6035	307.91	5/8	4	1.62	1	1/2-20
	3-306-6038	264.08	3/4	3	1.75	1	5/8-18
	3-306-6040	307.91	3/4	4	1.75	1	5/8-18
	3-306-6048	307.91	1	3.56	2.38	2	3/4-16
	3-306-6052	395.59	1	6	2.38	2	3/4-16
3-306-6053	307.91	1-1/4	4.60	2.69	2	3/4-16	
3-306-6100	395.59	1-1/4	6	2.69	2	3/4-16	
100A	3-306-6102	351.75	1/8	2.5	0.75	1	#6-32
	3-306-6104	351.75	3/16	2.5	0.75	1	#8-32
	3-306-6122	351.75	1/4	2.5	0.82	1	1/4-28
	3-306-6136	351.75	1/4	4	0.82	1	1/4-28
	3-306-6106	351.75	5/16	4	0.86	1	5/16-24
	3-306-6108	351.75	3/8	3	1.06	1	3/8-24
	3-306-6110	351.75	3/8	4	1.06	1	3/8-24
	3-306-6112	351.75	7/16	3	1.26	1	3/8-24
	3-306-6114	351.75	1/2	3.25	1.37	1	7/16-20
	3-306-6116	351.75	1/2	4.5	1.37	1	7/16-20
	3-306-6118	351.75	5/8	3.5	1.75	1	1/2-20
	3-306-6120	351.75	5/8	4	1.75	1	1/2-20
	3-306-6124	351.75	3/4	2.5	1.75	1	5/8-18
	3-306-6126	351.75	3/4	4	1.75	1	5/8-18
	3-306-6128	351.75	1	3.56	2.37	2	3/4-16
	3-306-6130	439.16	1	6	2.37	2	3/4-16
	3-306-6132	351.75	1-1/4	3.56	2.75	2	3/4-16
	3-306-6134	439.16	1-1/4	6	2.75	2	3/4-16

Prices are subject to change without notice

Milling Chucks HSK 50A, 63A

- Balanced to 15,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel plated for longevity
- Individual lab certificate included with each tool
- .0002" TIR or better to ensure minimal run-out
- Designed for rough milling operations
- Wrench not included
- Straight Collets sold separately

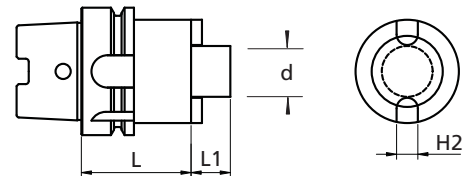
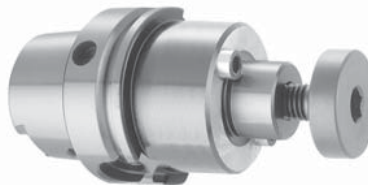


Shank	Part Number	Retail Price	L	D	Bore Size
50A	3-307-202	236.25	4.72	2.05	C20mm
63A	3-307-220	236.25	3.54	2.05	C20mm
	3-307-222	236.25	4.72	2.05	C20mm
	3-307-230	262.50	4.72	2.72	C32mm
	3-307-232	275.63	5.90	2.72	C32mm
	3-307-242	525.00	4.72	3.39	C42mm

Wrench	Retail Price
3-790-220	7.88
3-790-220	7.88
3-790-232	10.40

Shell Mill Holders HSK 63A and 100A

- Balanced to 15,000 RPM at G2.5
- Taper ground to AT3 standards or better
- Nickel plated for longevity
- Individual lab certificate included with each tool
- .0002" TIR or better to ensure minimal run-out
- Coolant through



Shank	Part Number	Retail Price	d	L	L1	H2
63A	3-303-6010	264.08	1/2	1.77	.560	.250
	3-303-6050	290.33	1-1/2	2.35	.940	.625
	3-303-6120	290.33	3/4	1.77	.680	.3125
	3-303-6130	290.33	1	1.77		.375
	3-303-6140	307.91	1-1/4	2.35		.500
100A	3-303-9005	351.75	1/2	2.00	.560	.250
	3-303-9075	386.66	3/4	1.77	.690	.3125
	3-303-9010	360.41	1	1.77		.625
	3-303-9125	395.33	1-1/4	2.00		.500
	3-303-9150	386.66	1-1/2	2.00	.920	.625
	3-303-9200	412.91	2	3.00	.940	.750

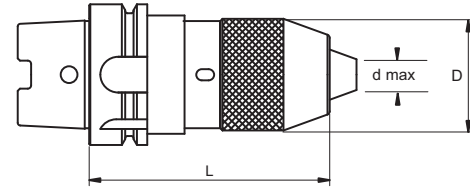
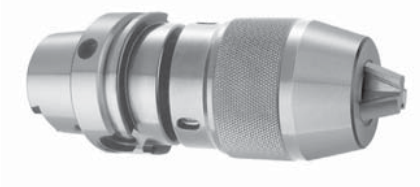
Prices are subject to change without notice



HSK Flange Tooling

Integral Drill Chucks HSK 50A, 63A and 100A

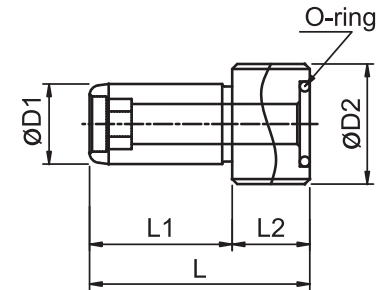
- Extremely accurate
- 3 times better clamping compared to keyed chucks.
- Taper ground to AT3 standards or better
- Nickel plated for longevity
- All ground internal parts
- Wrench not included



Shank	Part Number	Retail Price	L	D	Drill Capacity
50A	3-311-6008	246.75	5.3	1.97	.500
63A	3-309-6035	347.29	5.7	1.97	.500
100A	3-311-9120	526.84	6.0	1.97	.500

Wrench	Retail Price
3-790-213S	4.20
3-790-213S	4.20
3-790-213S	4.20

HSK Coolant Tubes



Part Number	Retail Price	Description	OD1	OD2	L	L1	L2
3-792-032	9.45	HSK32	6	M10x1.0	26	20.5	5.5
3-792-040	10.40	HSK40	8	M12x1.0	29.5	22	7.5
3-792-050	11.34	HSK50	10	M16x1.0	33	23.5	9.5
3-792-063	12.60	HSK63	12	M18x1.0	36.5	25	11.5
3-792-080	14.49	HSK80	14	M20x1.5	40	25.5	13.5
3-792-100	17.64	HSK100	16	M24x1.5	44	28.5	15.5

Prices are subject to change without notice

Precision R8 Slitting Arbor

- This versatile arbor offers flexibility in sawing operations
- The spring loaded mechanism accepts saw blades with hole diameters from 1/2" to 1"
- Saw blades are firmly secured in position with a hex socket screw
- Rust resistant black oxide finish
- Arbors are provided with one hex wrench and one screw



Shank Dia D	Part Number	Retail Price	OAL	Hole Dia	Head Dia
R8	3-120-010	45.66	5-3/32	1/2, 5/8, 3/4, 7/8, 1	1.24

Screw Part Number	Retail Price	Hex Key Part Number	Retail Price
3-120-900	2.76	6-998-162	0.44

Prices are subject to change without notice



Morse Taper Tooling



Drill Drifts, Hardened and Zinc Plated

- Used for removing MT shanks from MT sleeves or spindles
- Use drill drift size #1 for MT 1, size #2 for MT2, etc.
- Fully drop forged

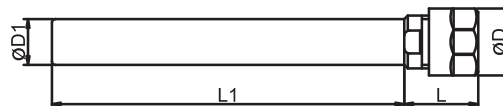


Size	Part Number	Retail Price	H	Length L	Fits MT Sockets and Sleeves Number
1	3-451-001	4.54	.80	4.6	1
2	3-451-002	5.28		5.6	2
3	3-451-003	5.76	1.0	6.2	3
4	3-451-004	7.30	1.25	7.0	4-5-6
Set of 4	3-451-010	18.90	Set of 4		1-6

Prices are subject to change without notice

ER Collet Chucks with Cylindrical Shanks

- Coolant through



Collet Type	Part Number	Retail Price	L	L1	OD1
ER11	3-171-1102	65.63	.825	4.000	.500
	3-171-1104	103.32		6.000	
	3-171-1105	65.63		4.000	.625
	3-171-1108	75.29		6.000	
ER16	3-171-1202	79.07	1.18	4.000	.625
	3-171-1204	79.07		6.000	
	3-171-1206	65.63		2.500	.750
	3-171-1208	65.63		4.000	
	3-171-1210	65.63		2.500	1.000
	3-171-1212	65.63		4.000	
	3-171-1214	65.63		6.000	
ER20	3-171-1324	87.89	1.42	6.000	.750
	3-171-1326	70.88		2.500	
	3-171-1328	70.88		4.000	
	3-171-1330	89.46		6.000	1.000
	3-171-1332	70.88		2.500	
	3-171-1334	70.88		4.000	
ER25	3-171-1436	117.08	1.81	6.000	1.000
	3-171-1438	84.00		2.500	
	3-171-1440	84.00		4.000	
ER32	3-171-1542	111.30	2.13	3.000	1.000
	3-171-1544	84.00		4.000	1.250
	3-171-1546	157.11			1.500
ER40	3-171-1648	104.58	2.17	3.000	1.250

Wrench Part Number	Retail Price	Nut Part Number	Retail Price
3-790-111	23.00	3-791-011H	25.20
3-790-111	23.00	3-791-011H	25.20
3-790-111	23.00	3-791-011H	25.20
3-790-111	23.00	3-791-011H	25.20
3-790-111	23.00	3-791-011H	25.20
3-790-116	16.70	3-791-016H	25.20
3-790-116	16.70	3-791-016H	25.20
3-790-116	16.70	3-791-016H	25.20
3-790-116	16.70	3-791-016H	25.20
3-790-116	16.70	3-791-016H	25.20
3-790-116	16.70	3-791-016H	25.20
3-790-116	16.70	3-791-016H	25.20
3-790-116	16.70	3-791-016H	25.20
3-790-116	16.70	3-791-016H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-120	19.85	3-791-020H	25.20
3-790-025B	30.24	3-791-025B	36.75
3-790-025B	30.24	3-791-025B	36.75
3-790-025B	30.24	3-791-025B	36.75
3-790-032B	33.39	3-791-032B	40.16
3-790-032B	33.39	3-791-032B	40.16
3-790-032B	33.39	3-791-032B	40.16
3-790-040B	39.69	3-791-050B	64.58

Prices are subject to change without notice



Straight Shank Tooling

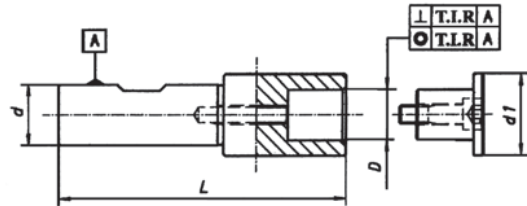
TOOLMEX
Industrial Solutions

STRAIGHT SHANK TOOLING

Slitting and Slotting Saw Arbors

Hardened and Precisely Ground

- Rigid arbors with extended length reach areas that standard short arbors cannot
- Each arbor is ground for precision within 0.002" or 0.0004" T.I.R. (see drawing and table)
- Super low profile cups allow cutter to get lower and closer to working area
- Plug style cup gives extra support and rigidity when working with larger diameter saws



0.0004" T.I.R.

Shank Dia D	Arbor .002" Part Number	Retail Price	Arbor .0004" Part Number	Retail Price	Hole Size d	d1	L
.500	3-123-005	24.88	3-123-305	37.30	.250	.500	2.70
	3-123-010	30.41	3-123-310	51.40	.375	.625	2.88
	3-123-015	33.18	3-123-315	52.50	.500	.750	3.07
Set of 3 Arbors .250 - .500	3-123-050	88.50	3-123-350	141.00	-		
.750	3-123-105	35.94	3-123-405	84.59	.625	1.00	3.53
	3-123-110	38.71	3-123-410	91.01	1.000	1.50	3.78
	3-123-115	44.25	3-123-415	95.75	1.250	1.75	4.03
Set of 3 Arbors .625 - 1.250	3-123-150	119.00	3-123-450	324.00	-		

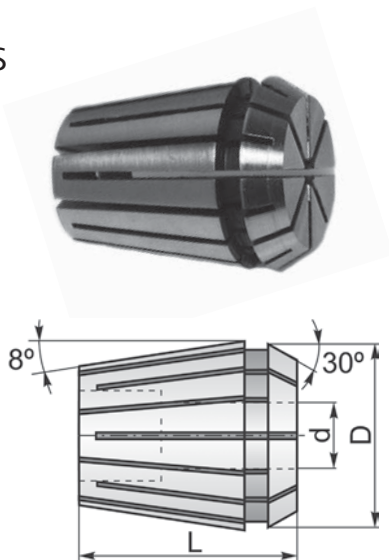
Shank Dia D	Arbor .002" Part Number	Arbor .0004" Part Number	Arbor Screw Part Number	Retail Price	Hex Key Part Number	Retail Price
.500	3-123-005	3-123-305	3-123-905	2.76	6-999-583	0.29
	3-123-010	3-123-310	3-123-910	4.42	6-999-584	0.95
	3-123-015	3-123-315	3-123-915	5.53	6-999-585	0.51
.750	3-123-105	3-123-405	3-123-925	4.42	6-999-585	0.51
	3-123-110	3-123-410	3-123-930	5.53	6-999-586	1.42
	3-123-115	3-123-415	3-123-935	5.53		

Prices are subject to change without notice



ER Spring Collets and Collet Sets

- Concentricity guaranteed to 0.0004"
- Wide holding range of each collet requires fewer collets and changes
- ER Collets collapse approximately 1/32" while maintaining full accuracy
- Unique self-releasing system eliminates sticking
- ER Mini-Collet Chucks allow for machining in tight locations with reduced outside nose diameter



Style	D	L
ER 11	–	–
ER 16	0.669	1.062
ER 20	0.826	1.220
ER 25	1.024	1.378
ER 32	1.299	1.574
ER 40	1.614	1.811

Nominal Size inches	ER 11 Part Number	Retail Price	ER 16 Part Number	Retail Price	ER 20 Part Number	Retail Price	ER 25 Part Number	Retail Price
1/32	3-171-112*	21.42	3-171-162	19.32	–	–	–	–
1/16	3-171-113*	19.32	3-171-1621	14.07	3-171-203	15.65	3-171-2333	15.96
3/32	3-171-114*	19.32	3-171-1623	14.07	3-171-204	15.65	3-171-2335	15.96
1/8	3-171-116*	19.32	3-171-163*	14.07	3-171-205*	15.65	3-171-2337*	15.96
5/32	–	–	3-171-1630	14.07	3-171-206	15.65	3-171-2338	15.96
3/16	3-171-118*	19.32	3-171-164*	14.07	3-171-207*	15.65	3-171-234*	15.96
7/32	3-171-120*	19.32	3-171-165*	14.07	3-171-209*	15.65	3-171-236*	15.96
1/4	3-171-122*	19.32	3-171-166*	14.07	3-171-211*	15.65	3-171-238*	15.96
9/32	–	–	3-171-1663	14.07	3-171-212	15.65	3-171-240	15.96
5/16	–	–	3-171-167*	14.07	3-171-213*	15.65	3-171-242*	15.96
11/32	–	–	3-171-168*	14.07	3-171-215*	15.65	3-171-244*	15.96
3/8	–	–	3-171-169*	14.07	3-171-217*	15.65	3-171-246*	15.96
13/32	–	–	–	–	3-171-219*	15.65	3-171-248*	15.96
7/16	–	–	–	–	3-171-221*	15.65	3-171-250*	15.96
15/32	–	–	–	–	3-171-222	15.65	3-171-252	15.96
1/2	–	–	–	–	3-171-223*	15.65	3-171-254*	15.96
17/32	–	–	–	–	–	–	3-171-256*	15.96
9/16	–	–	–	–	–	–	3-171-258*	15.96
19/32	–	–	–	–	–	–	3-171-260	15.96
5/8	–	–	–	–	–	–	3-171-262	15.96
Collet Sets	7 Pc. Set		7 Pc. Set		10 Pc. Set		12 Pc. Set	
	3-171-125	143.33	3-171-195	130.73	3-171-225	224.18	3-171-295	226.28

* Indicates sizes contained in set



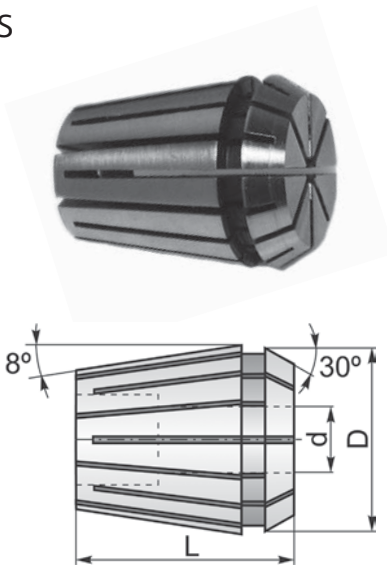
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Collets

ER Spring Collets and Collet Sets

- Concentricity guaranteed to 0.0004"
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- ER Collets collapse approximately 1/32" while maintaining full accuracy
- Unique self-releasing system eliminates sticking
- ER Mini-Collet Chucks allow for machining in tight locations with reduced outside nose diameter



Style	D	L
ER 11	–	–
ER 16	0.669	1.062
ER 20	0.826	1.220
ER 25	1.024	1.378
ER 32	1.299	1.574
ER 40	1.614	1.811

Nominal Size inches	ER 32 Part Number	Retail Price	ER 40 Part Number	Retail Price	ER 50 Part Number	Retail Price
3/32	3-171-328	18.69	–	–	–	–
1/8	3-171-330*	18.69	3-171-430*	22.47	–	–
5/32	3-171-332	18.69	3-171-432	22.47	–	–
3/16	3-171-334*	18.69	3-171-434*	22.47	–	–
7/32	3-171-336	18.69	3-171-436	22.47	–	–
1/4	3-171-338*	18.69	3-171-438*	22.47	–	–
9/32	3-171-339	18.69	3-171-440	22.47	–	–
5/16	3-171-340*	18.69	3-171-442*	22.47	–	–
11/32	3-171-344	18.69	3-171-444	22.47	–	–
3/8	3-171-346*	18.69	3-171-446*	22.47	–	–
13/32	3-171-348	18.69	3-171-448	22.47	–	–
7/16	3-171-350*	18.69	3-171-450*	22.47	–	–
15/32	3-171-352	18.69	3-171-452	22.47	–	–
1/2	3-171-354*	18.69	3-171-454*	22.47	3-171-4959	63.55
17/32	3-171-356	18.69	3-171-456	22.47	–	–
9/16	3-171-358*	18.69	3-171-458*	22.47	–	–
19/32	3-171-360	18.69	3-171-460	22.47	–	–
5/8	3-171-362*	18.69	3-171-462*	22.47	3-171-4967	63.55
21/32	3-171-364	18.69	3-171-464	22.47	–	–
11/16	3-171-366*	18.69	3-171-466*	22.47	–	–
23/32	3-171-368	18.69	3-171-468	22.47	–	–
3/4	3-171-370*	18.69	3-171-470*	22.47	3-171-4975	63.55
25/32	–	–	3-171-472	22.47	–	–
13/16	–	–	3-171-474*	22.47	–	–
27/32	–	–	3-171-476	22.47	–	–
7/8	–	–	3-171-478*	22.47	–	–
29/32	–	–	3-171-480	22.47	–	–
15/16	–	–	3-171-482*	22.47	–	–
31/32	–	–	3-171-484	22.47	–	–
1	–	–	3-171-486*	22.47	3-171-4989	63.55
1-1/4	–	–	–	–	3-171-4995	63.55
Collet Sets	11 Pc. Set	–	15 Pc. Set	–	–	–
	3-171-395	239.93	3-171-495	341.78	–	–



* Indicates sizes contained in set

Prices are subject to change without notice



ER Spring Collets and Collet Sets, Metric Sizes



COLLETS

Nominal Size	Clamping Range	Clamping Range	ER 11 Part Number	Retail Price	ER 16 Part Number	Retail Price	ER 20 Part Number	Retail Price
	mm	inches						
1	1-0.5	.019-.039	3-171-511	19.32	3-171-501	19.01	–	–
2	2-1	.039-.078	3-171-513	19.32	3-171-502	16.30	3-171-602*	16.70
3	3-2	.078-.118	3-171-515	19.32	3-171-503	16.30	3-171-603	16.70
4	4-3	.118-.157	3-171-517	19.32	3-171-504	16.30	3-171-604	16.70
5	5-4	.157-.196	3-171-519	19.32	3-171-505	16.30	3-171-605	16.70
6	6-5	.196-.236	3-171-521	19.32	3-171-506	16.30	3-171-606	16.70
7	7-6	.236-.275	3-171-523	19.32	3-171-507	16.30	3-171-607	16.70
8	8-7	.275-.314	–	–	3-171-508	16.30	3-171-608	16.70
9	9-8	.314-.354	–	–	3-171-509	16.30	3-171-609	16.70
10	10-9	.354-.393	–	–	3-171-510	16.30	3-171-610	16.70
11	11-10	.393-.433	–	–	–	–	3-171-611	16.70
12	12-11	.433-.472	–	–	–	–	3-171-612	16.70
13	13-12	.472-.511	–	–	–	–	3-171-613	16.70
Collet Sets			7 pc set		10 pc set		11 pc set	
			3-171-525	136.50	3-171-595	195.50	3-171-695	217.35

*Size not included in set

Prices are subject to change without notice



Collets

ER Spring Collets and Collet Sets, Metric Sizes



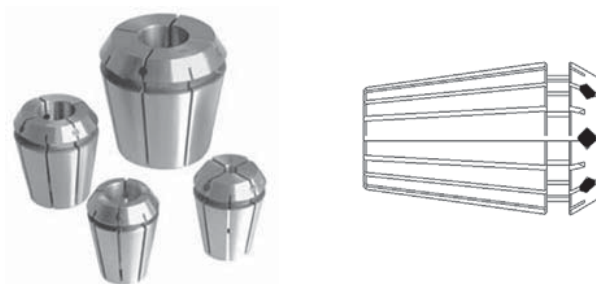
Nominal Size	Clamping Range	Clamping Range	ER 25 Part Number	Retail Price	ER 32 Part Number	Retail Price	ER 40 Part Number	Retail Price
	mm	inches						
2	2-1	.039-.078	3-171-702	17.12	-	-	-	-
3	3-2	.078-.118	3-171-703	17.12	3-171-803	18.69	-	-
4	4-3	.118-.157	3-171-704	17.12	3-171-804	18.69	3-171-904	22.47
5	5-4	.157-.196	3-171-705	17.12	3-171-805	18.69	3-171-905	22.47
6	6-5	.196-.236	3-171-706	17.12	3-171-806	18.69	3-171-906	22.47
7	7-6	.236-.275	3-171-707	17.12	3-171-807	18.69	3-171-907	22.47
8	8-7	.275-.314	3-171-708	17.12	3-171-808	18.69	3-171-908	22.47
9	9-8	.314-.354	3-171-709	17.12	3-171-809	18.69	3-171-909	22.47
10	10-9	.354-.393	3-171-710	17.12	3-171-810	18.69	3-171-910	22.47
11	11-10	.393-.433	3-171-711	17.12	3-171-811	18.69	3-171-911	22.47
12	12-11	.433-.472	3-171-712	17.12	3-171-812	18.69	3-171-912	22.47
13	13-12	.472-.511	3-171-713	17.12	3-171-813	18.69	3-171-913	22.47
14	14-13	.511-.551	3-171-714	17.12	3-171-814	18.69	3-171-914	22.47
15	15-14	.551-.590	3-171-715	17.12	3-171-815	18.69	3-171-915	22.47
16	16-15	.590-.629	-	-	3-171-816	18.69	3-171-916	22.47
17	17-16	.629-.669	-	-	3-171-817	18.69	3-171-917	22.47
18	18-17	.669-.708	-	-	3-171-818	18.69	3-171-918	22.47
19	19-18	.708-.748	-	-	3-171-819	18.69	3-171-919	22.47
20	20-19	.748-.787	-	-	3-171-820	18.69	3-171-920	22.47
21	21-20	.787-.826	-	-	-	-	3-171-921	22.47
22	22-21	.826-.866	-	-	-	-	3-171-922	22.47
23	23-22	.866-.905	-	-	-	-	3-171-923	22.47
24	24-23	.905-.944	-	-	-	-	3-171-924	22.47
25	25-24	.944-.984	-	-	-	-	3-171-925	22.47
26	26-25	.984-1.023	-	-	-	-	3-171-926	22.47
Collet Sets			14 pc set		18 pc set		23 pc set	
			3-171-795	284.03	3-171-895	394.80	3-171-935	567.00

Prices are subject to change without notice



ER Rubber Sealed Collets

- Designed for Coolant through tools
- 600 PSI Max Coolant Pressure
- All Collets are exact size



Size Inches	Part Numbers				
	ER16	ER20	ER25	ER32	ER40
1/8	3-171-4163	–	–	–	–
3/16	3-171-4164	3-171-4207	–	–	–
1/4	3-171-4166	3-171-4211	3-171-4238	3-171-4338	–
5/16	3-171-4167	3-171-4213	3-171-4242	3-171-4340	–
3/8	3-171-4169	3-171-4217	3-171-4246	3-171-4346	3-171-4446
7/16	–	3-171-4221	3-171-4250	3-171-4350	3-171-4450
1/2	–	3-171-4223	3-171-4254	3-171-4354	3-171-4454
9/16	–	–	3-171-4258	3-171-4362	3-171-4458
5/8	–	–	3-171-4262	3-171-4370	3-171-4462
3/4	–	–	–	–	3-171-4470
7/8	–	–	–	–	3-171-4478
1	–	–	–	–	3-171-4486

ER16 Part Number	Retail Price
3-171-4163	45.50
3-171-4164	45.50
3-171-4166	45.50
3-171-4167	45.50
3-171-4169	45.50

ER20 Part Number	Retail Price
3-171-4207	45.50
3-171-4211	45.50
3-171-4213	45.50
3-171-4217	45.50
3-171-4221	45.50
3-171-4223	45.50

ER25 Part Number	Retail Price
3-171-4238	45.50
3-171-4242	45.50
3-171-4246	45.50
3-171-4250	45.50
3-171-4254	45.50
3-171-4258	45.50
3-171-4262	45.50

ER32 Part Number	Retail Price
3-171-4338	42.74
3-171-4340	42.74
3-171-4346	42.74
3-171-4350	42.74
3-171-4354	42.74
3-171-4362	42.74
3-171-4370	42.74

ER40 Part Number	Retail Price
3-171-4446	52.37
3-171-4450	52.37
3-171-4454	52.37
3-171-4458	52.37
3-171-4462	52.37
3-171-4470	52.37
3-171-4478	52.37
3-171-4486	52.37

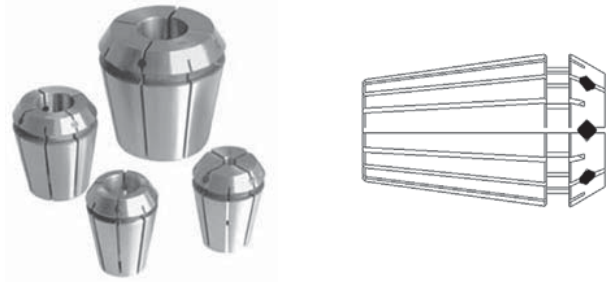
Prices are subject to change without notice



Collets

ER Rubber Sealed Collets

- Designed for Coolant through tools
- 600 PSI Max Coolant Pressure
- All Collets are exact size



Metric Sizes

Size Metric	Part Numbers				
	ER16	ER20	ER25	ER32	ER40
3	3-171-6503	3-171-6603	3-171-6703	3-171-6803	–
4	3-171-6504	3-171-6604	3-171-6704	3-171-6804	–
5	3-171-6505	3-171-6605	3-171-6705	3-171-6805	–
6	3-171-6506	3-171-6606	3-171-6706	3-171-6806	3-171-6906
7	3-171-6507	3-171-6607	3-171-6707	3-171-6807	–
8	3-171-6508	3-171-6608	3-171-6708	3-171-6808	3-171-6908
9	–	3-171-6609	3-171-6709	3-171-6809	–
10	–	3-171-6610	3-171-6710	3-171-6810	3-171-6910
11	–	3-171-6611	3-171-6711	3-171-6811	3-171-6911
12	–	–	3-171-6712	3-171-6812	3-171-6912
13	–	–	3-171-6713	3-171-6813	3-171-6913
14	–	–	3-171-6714	3-171-6814	3-171-6914
15	–	–	–	3-171-6815	–
16	–	–	–	3-171-6816	3-171-6916
17	–	–	–	3-171-6817	–
18	–	–	–	3-171-6818	3-171-6918
19	–	–	–	3-171-6819	–
20	–	–	–	3-171-6820	3-171-6920
25	–	–	–	–	3-171-6925

ER16 Part Number	Retail Price
3-171-6503	45.50
3-171-6504	45.50
3-171-6505	45.50
3-171-6506	45.50
3-171-6507	45.50
3-171-6508	45.50

ER25 Part Number	Retail Price
3-171-6703	45.50
3-171-6704	45.50
3-171-6705	45.50
3-171-6706	45.50
3-171-6707	45.50
3-171-6708	45.50
3-171-6709	45.50
3-171-6710	45.50
3-171-6711	45.50
3-171-6712	45.50
3-171-6713	45.50
3-171-6714	45.50

ER32 Part Number	Retail Price
3-171-6803	42.74
3-171-6804	42.74
3-171-6805	42.74
3-171-6806	42.74
3-171-6807	42.74
3-171-6808	42.74
3-171-6809	42.74
3-171-6810	42.74
3-171-6811	42.74
3-171-6812	42.74
3-171-6813	42.74
3-171-6814	42.74
3-171-6815	42.74
3-171-6816	42.74
3-171-6817	42.74
3-171-6818	42.74
3-171-6819	42.74
3-171-6820	42.74

ER40 Part Number	Retail Price
3-171-6906	52.37
3-171-6908	52.37
3-171-6910	52.37
3-171-6911	52.37
3-171-6912	52.37
3-171-6913	52.37
3-171-6914	52.37
3-171-6916	52.37
3-171-6918	52.37
3-171-6920	52.37
3-171-6925	52.37

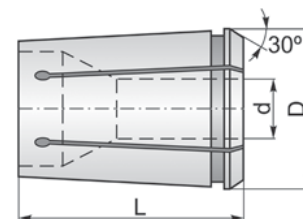
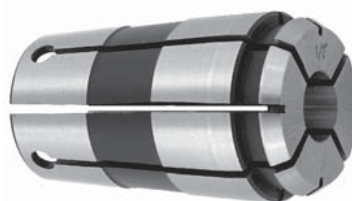
ER20 Part Number	Retail Price
3-171-6603	45.50
3-171-6604	45.50
3-171-6605	45.50
3-171-6606	45.50
3-171-6607	45.50
3-171-6608	45.50
3-171-6609	45.50
3-171-6610	45.50
3-171-6611	45.50

Prices are subject to change without notice



TG Precision Single Angle Collets

- Concentricity guaranteed to 0.0004"
- TG collets collapse approximately 1/64"
- Completely interchangeable with all leading brands
- Hardened and ground to ensure maximum accuracy

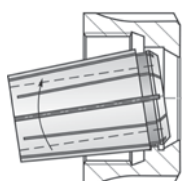


TG-100 Collet Extractors
Part Number 7-166-8001

Collet Type	Diameter D	Length L	Clamping Range
TG75	1.062	1.844	3/32 to 3/4
TG100	1.379	2.375	3/32 to 1
TG150	2.001	3.000	1/2 to 1-1/2

Fractional inches	TG75		TG100	
	Part Number	Retail Price	Part Number	Retail Price
3/32	3-166-108	25.11	3-166-308	33.09
7/64	3-166-110	25.11	3-166-310	33.09
1/8	3-166-112	25.11	3-166-312	25.98
9/64	3-166-114	25.11	3-166-314	25.98
5/32	3-166-116	25.11	3-166-316	25.98
11/64	3-166-118	25.11	3-166-318	25.98
3/16	3-166-120	25.11	3-166-320	25.98
13/64	3-166-122	25.11	3-166-322	25.98
7/32	3-166-124	25.11	3-166-324	25.98
15/64	3-166-126	25.11	3-166-326	25.98
1/4	3-166-128	25.11	3-166-328	25.98
17/64	3-166-130	25.11	3-166-330	25.98
9/32	3-166-132	25.11	3-166-332	25.98
19/64	3-166-134	25.11	3-166-334	25.98
5/16	3-166-136	25.11	3-166-336	25.98
21/64	3-166-138	25.11	3-166-338	25.98
11/32	3-166-140	25.11	3-166-340	25.98
23/64	3-166-142	25.11	3-166-342	25.98
3/8	3-166-144	25.11	3-166-344	25.98
25/64	3-166-146	25.11	3-166-346	25.98
13/32	3-166-148	25.11	3-166-348	25.98
27/64	3-166-150	25.11	3-166-350	25.98
7/16	3-166-152	25.11	3-166-352	25.98
29/64	3-166-154	25.11	3-166-354	25.98
15/32	3-166-156	25.11	3-166-356	25.98
31/64	3-166-158	25.11	3-166-358	25.98

Fractional inches	TG75		TG100	
	Part Number	Retail Price	Part Number	Retail Price
1/2	3-166-160	25.11	3-166-360	25.98
33/64	3-166-162	25.11	3-166-362	25.98
17/32	3-166-164	25.11	3-166-364	25.98
35/64	3-166-166	25.11	3-166-366	25.98
9/16	3-166-168	25.11	3-166-368	25.98
37/64	3-166-170	25.11	3-166-370	25.98
19/32	3-166-172	25.11	3-166-372	25.98
39/64	3-166-174	25.11	3-166-374	25.98
5/8	3-166-176	25.11	3-166-376	25.98
41/64	3-166-178	25.11	3-166-378	25.98
21/32	3-166-180	25.11	3-166-380	25.98
43/64	3-166-182	25.11	3-166-382	25.98
11/16	3-166-184	25.11	3-166-384	25.98
45/64	3-166-186	25.11	3-166-386	25.98
23/32	3-166-188	25.11	3-166-388	25.98
47/64	3-166-190	25.11	3-166-390	25.98
3/4	3-166-192	25.11	3-166-392	25.98
49/64	–	–	3-166-394	25.98
25/32	–	–	3-166-396	25.98
51/64	–	–	3-166-398	25.98
13/16	–	–	3-166-400	25.98
53/64	–	–	3-166-402	25.98
27/32	–	–	3-166-404	25.98
7/8	–	–	3-166-408	25.98
57/64	–	–	3-166-410	25.98
29/32	–	–	3-166-412	25.98
59/64	–	–	3-166-414	25.98
15/16	–	–	3-166-416	25.98
61/64	–	–	3-166-418	25.98
31/32	–	–	3-166-420	25.98
63/64	–	–	3-166-422	25.98
1	–	–	3-166-424	25.98



Collet must be inserted into the nose piece before it is put into the chuck

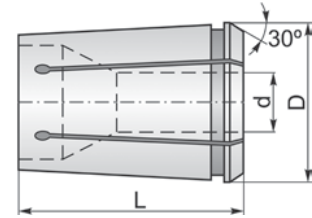
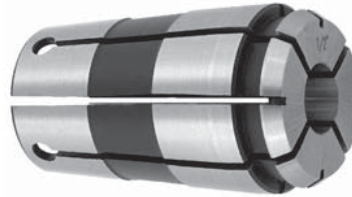
Prices are subject to change without notice



Collets

TG Precision Single Angle Collets

- Concentricity guaranteed to 0.0004"
- TG collets collapse approximately 1/64"
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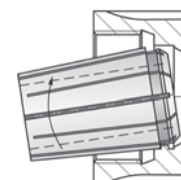
TG-100 Collet Extractors
Part Number 7-166-8001

Fractional inches	TG150	
	Part Number	Retail Price
1/2	3-166-560	41.95
33/64	3-166-562	41.95
17/32	3-166-564	41.95
35/64	3-166-566	41.95
9/16	3-166-568	41.95
37/64	3-166-570	41.95
19/32	3-166-572	41.95
39/64	3-166-574	41.95
5/8	3-166-576	41.95
41/64	3-166-578	41.95
21/32	3-166-580	41.95
43/64	3-166-582	41.95
11/16	3-166-584	41.95
45/64	3-166-586	41.95
23/32	3-166-588	41.95
47/64	3-166-590	41.95
3/4	3-166-592	41.95
49/64	3-166-594	41.95
25/32	3-166-596	41.95
51/64	3-166-598	41.95
13/16	3-166-600	41.95
53/64	3-166-602	41.95
27/32	3-166-604	41.95
55/64	3-166-606	41.95
7/8	3-166-608	41.95
57/64	3-166-610	41.95
29/32	3-166-612	41.95
59/64	3-166-614	41.95
15/16	3-166-616	41.95
61/64	3-166-618	41.95
31/32	3-166-620	41.95
63/64	3-166-622	41.95
1	3-166-624	41.95

Fractional inches	TG150	
	Part Number	Retail Price
1-1/64	3-166-626	41.95
1-1/32	3-166-628	41.95
1-3/64	3-166-630	41.95
1-1/16	3-166-632	41.95
1-5/64	3-166-634	41.95
1-1/8	3-166-640	41.95
1-9/64	3-166-642	41.95
1-5/32	3-166-644	41.95
1-11/64	3-166-646	41.95
1-13/64	3-166-650	41.95
1-7/32	3-166-652	41.95
1-15/64	3-166-654	41.95
1-1/4	3-166-656	41.95
1-17/16	3-166-658	41.95
1-9/32	3-166-660	41.95
1-19/64	3-166-662	41.95
1-5/16	3-166-664	41.95
1-21/64	3-166-666	41.95
1-11/32	3-166-668	41.95
1-23/64	3-166-670	41.95
1-3/8	3-166-672	41.95
1-25/64	3-166-674	41.95
1-13/32	3-166-676	41.95
1-27/64	3-166-678	41.95
1-29/64	3-166-682	41.95
1-15/32	3-166-684	41.95
1-31/64	3-166-686	41.95
1-1/2	3-166-688	41.95

TG Collet Sets

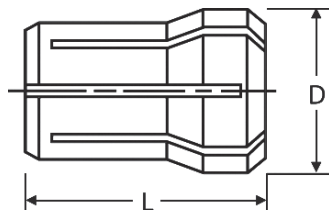
Collet Type	Part Number	Retail Price	Number of Pieces	Collet Sizes
TG75	3-166-195	265.50	11	1/8 - 3/4 x 16ths
	3-166-197	1,122.19	43	3/32 - 3/4 x 64ths
TG100	3-166-515	425.25	15	1/8 - 1 x 16ths
	3-166-530	826.88	30	3/32 - 1 x 32nds
TG150	3-166-693	750.10	17	1/2 - 1-1/2 x 16ths
	3-166-695	1,429.31	33	1/2 - 1-1/2 x 32nds



Collet must be inserted into the nose piece before it is put into the chuck

Prices are subject to change without notice

DA180, DA100, DA200, and DA300 Collets



Dimensions

Collet Type	Collet Range	Body Dia D	OAL L
DA300	1/8 - 1/4	.375	1.000
DA200	1/8 - 25/64	.531	1.188
DA100	1/8 - 9/16	.769	1.438
DA180	1/4 - 3/4	0.873-1.035	1.637

Fractional Sizes

Size	DA300		DA200	
	Part Number	Retail Price	Part Number	Retail Price
3/64	3-167-324	20.27	3-167-234	20.27
1/16	3-167-325	20.27	3-167-235	20.27
5/64	3-167-326	20.27	3-167-236	20.27
3/32	3-167-327	20.27	3-167-237	20.27
7/64	3-167-328	20.27	3-167-238	20.27
1/8	3-167-330	18.27	3-167-240	16.02
9/64	3-167-331	18.27	3-167-241	16.02
5/32	3-167-332	18.27	3-167-242	16.02
11/64	3-167-333	18.27	3-167-243	16.02
3/16	3-167-334	18.27	3-167-244	16.02
13/64	3-167-335	18.27	3-167-245	16.02
7/32	3-167-336	18.27	3-167-246	16.02
15/64	3-167-337	18.27	3-167-247	16.02
1/4	3-167-338	18.27	3-167-248	16.02
17/64	-	-	3-167-249	16.02
9/32	-	-	3-167-250	16.02
19/64	-	-	3-167-251	16.02
5/16	-	-	3-167-252	16.02
21/64	-	-	3-167-253	16.02
11/32	-	-	3-167-254	16.02
23/64	-	-	3-167-255	16.02
3/8	-	-	3-167-256	16.02
25/64	-	-	3-167-257	16.02

DA Fractional Size Sets

Collet Series	Part Number	Retail Price	No of Pieces	Range
DA 300	3-167-340	94.29	5	1/8 - 1/4 by 32nds
	3-167-344	176.93	9	1/8 - 1/4 by 64ths
DA 200	3-167-270	149.13	9	1/8 - 3/8 by 32nds
	3-167-275	272.86	17	1/8 - 3/8 by 64ths
DA 180	3-167-192	363.24	17	1/4 - 3/4 by 32nds
	3-167-194	693.99	33	1/4 - 3/4 by 64ths
DA 100	3-167-070	195.15	11	1/4 - 9/16 by 32nds
	3-167-075	372.56	21	1/4 - 9/16 by 1/64"

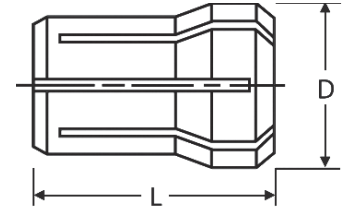


Prices are subject to change without notice



Collets

DA180, DA100, DA200, and DA300 Collets



Fractional Sizes

Size	DA180		DA100	
	Part Number	Retail Price	Part Number	Retail Price
3/64	–	–	3-167-030	15.37
1/16	3-167-106	20.73	3-167-031	22.37
5/64	3-167-107	20.73	3-167-032	22.37
3/32	3-167-108	20.73	3-167-033	22.37
7/64	3-167-109	20.73	3-167-034	22.37
1/8	3-167-110	19.55	3-167-035	17.75
9/64	3-167-111	19.55	3-167-036	17.75
5/32	3-167-112	19.55	3-167-037	17.75
11/64	3-167-113	19.55	3-167-038	17.75
3/16	3-167-114	19.55	3-167-039	17.75
13/64	3-167-115	19.55	3-167-040	17.75
7/32	3-167-116	19.55	3-167-041	17.75
15/64	3-167-117	19.55	3-167-042	17.75
1/4	3-167-118	19.55	3-167-043	17.75
17/64	3-167-119	19.55	3-167-044	17.75
9/32	3-167-120	19.55	3-167-045	17.75
19/64	3-167-121	19.55	3-167-046	17.75
5/16	3-167-122	19.55	3-167-047	17.75
21/64	3-167-123	19.55	3-167-048	17.75
11/32	3-167-124	19.55	3-167-049	17.75
23/64	3-167-125	19.55	3-167-050	17.75
3/8	3-167-126	19.55	3-167-051	17.75
25/64	3-167-127	19.55	3-167-052	17.75

Size	DA180		DA100	
	Part Number	Retail Price	Part Number	Retail Price
13/32	3-167-128	19.55	3-167-053	17.75
27/64	3-167-129	19.55	3-167-054	17.75
7/16	3-167-130	19.55	3-167-055	17.75
29/64	3-167-131	19.55	3-167-056	17.75
15/32	3-167-132	19.55	3-167-057	17.75
31/64	3-167-133	19.55	3-167-058	17.75
1/2	3-167-134	19.55	3-167-059	17.75
33/64	3-167-135	19.55	–	–
17/32	3-167-136	19.55	3-167-061	17.75
35/64	3-167-137	19.55	–	–
9/16	3-167-138	19.55	3-167-063	17.75
37/64	3-167-139	19.55	–	–
19/32	3-167-140	19.55	–	–
39/64	3-167-141	19.55	–	–
5/8	3-167-142	19.55	–	–
21/32	3-167-144	19.55	–	–
11/16	3-167-146	19.55	–	–
23/32	3-167-148	19.55	–	–
47/64	3-167-149	19.55	–	–
3/4	3-167-150	19.55	–	–

Metric Sizes

Size	DA180 Part Number	Retail Price	Collet Range
3 mm	3-167-503	25.20	3-2
6 mm	3-167-506	25.20	6-5
7 mm	3-167-507	25.20	7-6
8 mm	3-167-508	25.20	8-7
10 mm	3-167-510	25.20	10-9
11 mm	3-167-511	25.20	11-10
12 mm	3-167-512	25.20	12-11
14 mm	3-167-514	25.20	14-13

Prices are subject to change without notice

R8 Precision Round Collets

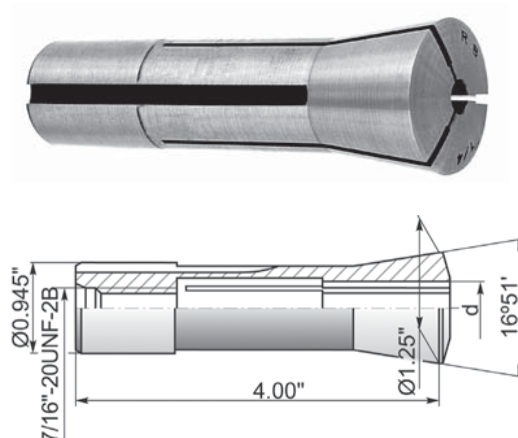
- Concentricity guaranteed to 0.0004"



13 Piece Collet Set 1/8" - 7/8" by 16ths
Part Number: 7-169-113



27 Piece Collet Set 1/16" - 7/8" by 32nds
Part Number: 7-169-127



Fractional Sizes

Size	Part Number	Retail Price	Size	Part Number	Retail Price	Size	Part Number	Retail Price
1/16	3-169-005	24.00	3/8	3-169-037	13.29	11/16	3-169-068	13.29
3/32	3-169-010	14.76	13/32	3-169-040	13.29	23/32	3-169-071	13.29
1/8	3-169-012	13.29	7/16	3-169-043	13.29	3/4	3-169-075	13.29
5/32	3-169-015	13.29	15/32	3-169-046	13.29	25/32	3-169-078	24.00
3/16	3-169-018	13.29	1/2	3-169-050	13.29	13/16	3-169-081	24.00
7/32	3-169-021	13.29	17/32	3-169-053	13.29	27/32	3-169-084	24.00
1/4	3-169-025	13.29	9/16	3-169-056	13.29	7/8	3-169-087	24.00
9/32	3-169-028	13.29	19/32	3-169-059	13.29	1	3-169-099	24.00
5/16	3-169-031	13.29	5/8	3-169-062	13.29	-	-	-
11/32	3-169-034	13.29	21/32	3-169-065	13.29	-	-	-
13 Piece Collet Set 1/8 - 7/8 by 16ths							3-169-113	378.00
27 Piece Collet Set 1/16 - 7/8 by 32nds							3-169-127	723.00

Metric Sizes

Size	Part Number	Retail Price	Size	Part Number	Retail Price
2 mm	3-169-602	14.76	12 mm	3-169-612	13.29
3 mm	3-169-603	13.29	13 mm	3-169-613	13.29
4 mm	3-169-604	13.29	14 mm	3-169-614	13.29
5 mm	3-169-605	13.29	15 mm	3-169-615	13.29
6 mm	3-169-606	13.29	16 mm	3-169-616	13.29
7 mm	3-169-607	13.29	17 mm	3-169-617	13.29
8 mm	3-169-608	13.29	18 mm	3-169-618	13.29
9 mm	3-169-609	13.29	19 mm	3-169-619	13.29
10 mm	3-169-610	13.29	20 mm	3-169-620	13.29
11 mm	3-169-611	13.29	-	-	-
19 Piece Collet Set 2 mm - 20 mm by 1 mm				3-169-669	295.31

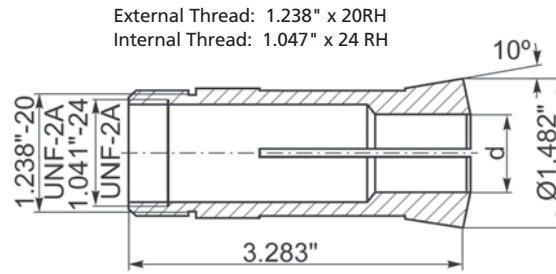
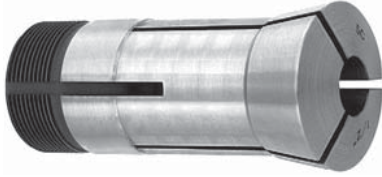
Prices are subject to change without notice



Collets

5C Precision Round Collets

- Concentricity guaranteed to 0.0004"



Fractional Sizes

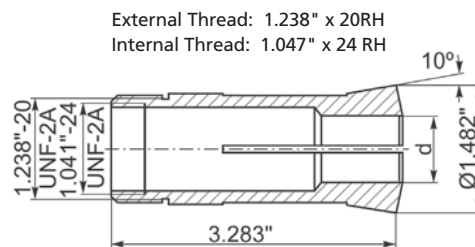
Size	Part Number	Retail Price	Size	Part Number	Retail Price	Size	Part Number	Retail Price
3/64	3-168-002	22.97	27/64	3-168-050	13.29	51/64	3-168-098	13.29
1/16	3-168-004	14.76	7/16	3-168-052	13.29	13/16	3-168-100	13.29
5/64	3-168-006	14.76	29/64	3-168-054	13.29	53/64	3-168-102	13.29
3/32	3-168-008	14.76	15/32	3-168-056	13.29	27/32	3-168-104	13.29
7/64	3-168-010	14.76	31/64	3-168-058	13.29	55/64	3-168-106	13.29
1/8	3-168-012	13.29	1/2	3-168-060	13.29	7/8	3-168-108	13.29
9/64	3-168-014	13.29	33/64	3-168-062	13.29	57/64	3-168-110	13.29
5/32	3-168-016	13.29	17/32	3-168-064	13.29	29/32	3-168-112	13.29
11/64	3-168-018	13.29	35/64	3-168-066	13.29	59/64	3-168-114	13.29
3/16	3-168-020	13.29	9/16	3-168-068	13.29	15/16	3-168-116	13.29
13/64	3-168-022	13.29	37/64	3-168-070	13.29	61/64	3-168-118	13.29
7/32	3-168-024	13.29	19/32	3-168-072	13.29	31/32	3-168-120	13.29
15/64	3-168-026	13.29	39/64	3-168-074	13.29	63/64	3-168-122	13.29
1/4	3-168-028	13.29	5/8	3-168-076	13.29	1	3-168-124	13.29
17/64	3-168-030	13.29	41/64	3-168-078	13.29	1-1/64	3-168-126	13.29
9/32	3-168-032	13.29	21/32	3-168-080	13.29	1-1/32	3-168-128	13.29
19/64	3-168-034	13.29	43/64	3-168-082	13.29	1-3/64	3-168-130	13.29
5/16	3-168-036	13.29	11/16	3-168-084	13.29	1-1/16	3-168-132	13.29
21/64	3-168-038	13.29	45/64	3-168-086	13.29	1-5/64	3-168-134	26.00
11/32	3-168-040	13.29	23/32	3-168-088	13.29	1-3/32	3-168-136	26.00
23/64	3-168-042	13.29	47/64	3-168-090	13.29	1-7/64	3-168-138	26.00
3/8	3-168-044	13.29	3/4	3-168-092	13.29	1-1/8	3-168-140	26.00
25/64	3-168-046	13.29	49/64	3-168-094	13.29	-	-	-
13/32	3-168-048	13.29	25/32	3-168-096	13.29	-	-	-

Prices are subject to change without notice



5C Precision Round Collets

- Concentricity guaranteed to 0.0004"



Metric Sizes

Size	Part Number	Retail Price
3 mm	3-168-603	13.29
4 mm	3-168-604	13.29
5 mm	3-168-605	13.29
6 mm	3-168-606	13.29
7 mm	3-168-607	13.29
8 mm	3-168-608	13.29
9 mm	3-168-609	13.29
10 mm	3-168-610	13.29
11 mm	3-168-611	13.29
12 mm	3-168-612	13.29
13 mm	3-168-613	13.29
14 mm	3-168-614	13.29
15 mm	3-168-615	13.29
16 mm	3-168-616	13.29
17 mm	3-168-617	13.29
18 mm	3-168-618	13.29
19 mm	3-168-619	13.29
20 mm	3-168-620	13.29
21 mm	3-168-621	13.29
22 mm	3-168-622	13.29
23 mm	3-168-623	13.29
24 mm	3-168-624	13.29
25 mm	3-168-625	13.29
26 mm	3-168-626	13.29
24 Piece Collet Set 3-26 mm by 1mm	3-168-674	363.24

Collet Sets



Collet Sets	Part Number	Retail Price
18 piece 1/16 - 1-1/8 by 16ths	3-168-168	318.00
24 Piece 3mm - 26mm by 1mm	3-168-674	363.24

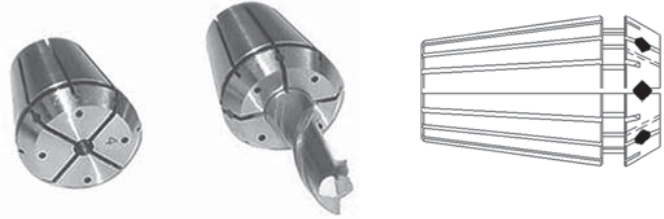
Prices are subject to change without notice



Collets

ER Jetstream Sealed Collets

- Designed for Non Coolant through tools
- Coolant is directed to the cutting edge
- 600 PSI Max Coolant Pressure
- All Collets are exact size



Metric Sizes

Size Metric	Part Numbers				
	ER16	ER20	ER25	ER32	ER40
3	3-171-7503	3-171-7603	3-171-7703	3-171-7803	–
4	3-171-7504	3-171-7604	3-171-7704	3-171-7804	–
5	3-171-7505	3-171-7605	3-171-7705	3-171-7805	–
6	3-171-7506	3-171-7606	3-171-7706	3-171-7806	3-171-7906
7	3-171-7507	3-171-7607	3-171-7707	3-171-7807	–
8	3-171-7508	3-171-7608	3-171-7708	3-171-7808	3-171-7908
9	–	3-171-7609	3-171-7709	3-171-7809	–
10	–	3-171-7610	3-171-7710	3-171-7810	3-171-7910
11	–	3-171-7611	3-171-7711	3-171-7811	3-171-7911
12	–	–	3-171-7712	3-171-7812	3-171-7912
13	–	–	3-171-7713	3-171-7813	3-171-7913
14	–	–	3-171-7714	3-171-7814	3-171-7914
15	–	–	–	3-171-7815	–
16	–	–	–	3-171-7816	3-171-7916
17	–	–	–	3-171-7817	–
18	–	–	–	3-171-7818	3-171-7918
19	–	–	–	3-171-7819	–
20	–	–	–	3-171-7820	3-171-7920
25	–	–	–	–	3-171-7925

ER16 Part Number	Retail Price
3-171-7503	45.50
3-171-7504	45.50
3-171-7505	45.50
3-171-7506	45.50
3-171-7507	45.50
3-171-7508	45.50

ER20 Part Number	Retail Price
3-171-7603	45.50
3-171-7604	45.50
3-171-7605	45.50
3-171-7606	45.50
3-171-7607	45.50
3-171-7608	45.50
3-171-7609	45.50
3-171-7610	45.50
3-171-7611	45.50

ER25 Part Number	Retail Price
3-171-7703	45.50
3-171-7704	45.50
3-171-7705	45.50
3-171-7706	45.50
3-171-7707	45.50
3-171-7708	45.50
3-171-7709	45.50
3-171-7710	45.50
3-171-7711	45.50
3-171-7712	45.50
3-171-7713	45.50
3-171-7714	45.50

ER32 Part Number	Retail Price
3-171-7803	42.74
3-171-7804	42.74
3-171-7805	42.74
3-171-7806	42.74
3-171-7807	42.74
3-171-7808	42.74
3-171-7809	42.74
3-171-7810	42.74
3-171-7811	42.74
3-171-7812	42.74
3-171-7813	42.74
3-171-7814	42.74
3-171-7815	42.74
3-171-7816	42.74
3-171-7817	42.74
3-171-7818	42.74
3-171-7819	42.74
3-171-7820	42.74

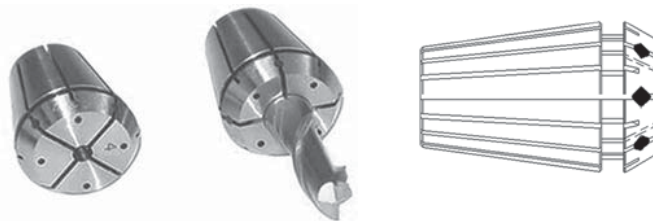
ER40 Part Number	Retail Price
3-171-7906	52.37
3-171-7908	52.37
3-171-7910	52.37
3-171-7911	52.37
3-171-7912	52.37
3-171-7913	52.37
3-171-7914	52.37
3-171-7916	52.37
3-171-7918	52.37
3-171-7920	52.37
3-171-7925	52.37

Prices are subject to change without notice



ER Jetstream Sealed Collets

- Designed for Non Coolant through tools
- Coolant is directed to the cutting edge
- 600 PSI Max Coolant Pressure
- All Collets are exact size



Size Inches	Part Numbers				
	ER16	ER20	ER25	ER32	ER40
1/8	3-171-5163	–	–	–	–
3/16	3-171-5164	3-171-5207	–	–	–
1/4	3-171-5166	3-171-5211	3-171-5238	3-171-5338	–
5/16	3-171-5167	3-171-5213	3-171-5242	3-171-5340	3-171-5442
3/8	3-171-5169	3-171-5317	3-171-5246	3-171-5346	3-171-5446
7/16	–	3-171-5221	3-171-5250	3-171-5350	3-171-5450
1/2	–	3-171-5223	3-171-5254	3-171-5354	3-171-5454
9/16	–	–	3-171-5258	–	3-171-5458
5/8	–	–	3-171-5262	3-171-5362	3-171-5462
3/4	–	–	–	3-171-5370	3-171-5470
7/8	–	–	–	–	3-171-5478
1	–	–	–	–	3-171-5486

ER16 Part Number	Retail Price
3-171-5163	45.50
3-171-5164	45.50
3-171-5166	45.50
3-171-5167	45.50
3-171-5169	45.50

ER20 Part Number	Retail Price
3-171-5207	45.50
3-171-5211	45.50
3-171-5213	45.50
3-171-5317	45.50
3-171-5221	45.50
3-171-5223	45.50

ER25 Part Number	Retail Price
3-171-5238	45.50
3-171-5242	45.50
3-171-5246	45.50
3-171-5250	45.50
3-171-5254	45.50
3-171-5258	45.50
3-171-5262	45.50

ER32 Part Number	Retail Price
3-171-5338	42.74
3-171-5340	42.74
3-171-5346	42.74
3-171-5350	42.74
3-171-5354	42.74
3-171-5362	42.74
3-171-5370	42.74

ER40 Part Number	Retail Price
3-171-5442	52.37
3-171-5446	52.37
3-171-5450	52.37
3-171-5454	52.37
3-171-5458	52.37
3-171-5462	52.37
3-171-5470	52.37
3-171-5478	52.37
3-171-5486	52.37

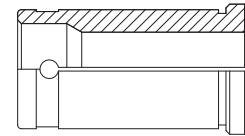
Prices are subject to change without notice



Collets

Straight Milling Chuck Collets

- Straight Collets for TMX Milling Chucks



Inches

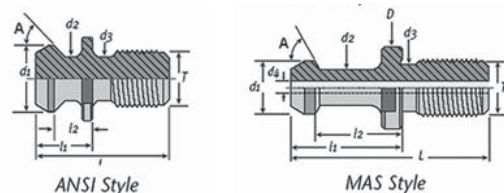
ID	3/4" OD Collets Part Number	Retail Price	1" OD Collets Part Number	Retail Price	1 1/4" OD Collets Part Number	Retail Price
3/16	3-171-8200	22.83	–	–	3-171-8502	29.52
1/4	3-171-8204	22.83	3-171-8525	25.36	3-171-8504	29.52
3/8	3-171-8212	22.83	3-171-8537	25.36	3-171-8508	29.52
5/16	3-171-8208	22.83	3-171-8532	25.36	3-171-8506	29.52
1/2	3-171-8216	22.83	3-171-8550	25.36	3-171-8510	29.52
5/8	–	–	–	–	3-171-8512	29.52
3/4	–	–	–	–	3-171-8514	29.52
7/8	–	–	–	–	3-171-8516	29.52
1	–	–	–	–	3-171-8518	29.52

Metric

ID	20MM OD Collets	Retail Price	32MM OD Collets	Retail Price	42MM OD Collets	Retail Price
4	–	–	3-171-8304	25.36	3-171-8404	44.56
5	–	–	3-171-8305	25.36	3-171-8405	44.56
6	3-171-8100	19.93	3-171-8306	25.36	3-171-8406	44.56
8	3-171-8108	19.93	3-171-8308	25.36	3-171-8408	44.56
10	3-171-8110	19.93	3-171-8310	25.36	3-171-8410	44.56
12	3-171-8112	19.93	3-171-8312	25.36	3-171-8412	44.56
14	3-171-8114	19.93	3-171-8314	25.36	3-171-8414	44.56
15	3-171-8115	19.93	–	–	–	–
16	3-171-8116	19.93	3-171-8316	25.36	3-171-8416	44.56
18	–	–	3-171-8318	25.36	3-171-8418	44.56
20	–	–	3-171-8320	25.36	3-171-8420	44.56
22	–	–	3-171-8322	25.36	3-171-8422	44.56
25	–	–	3-171-8325	25.36	3-171-8425	44.56
32	–	–	–	–	3-171-8432	44.56

Prices are subject to change without notice

Retention Knobs

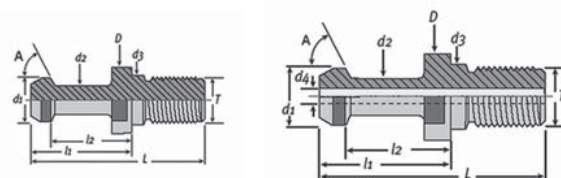


CAT Solid

Part Number	Retail Price	Type	A	d1	d2	d3	L	l1	l2	T
3-793-006	14.70	CAT 40-ANSI Solid	45°	0.740	0.490	0.490	1.500	0.640	.4400	5/8 - 11
3-793-008	14.70	CAT 40-MAS-I Solid	45°	0.590	0.394	0.512	2.250	1.266	.9900	5/8 - 11
3-793-010	14.70	CAT 40-MAS-II Solid	60°	0.590	0.394	0.512	2.250	1.266	.9900	5/8 - 11
3-793-012	14.70	CAT 40-MAS-III Solid	90°	0.590	0.394	0.512	2.250	1.266	.9900	5/8 - 11
3-793-014	30.88	CAT 50-MAS-I Solid	45°	0.906	0.669	0.827	3.346	1.772	1.378	1 - 8
3-793-016	30.88	CAT 50-MAS-II Solid	60°	0.906	0.669	0.827	3.346	1.772	1.378	1 - 8
3-793-018	30.88	CAT 50-MAS-III Solid	90°	0.906	0.669	0.827	3.346	1.772	1.378	1 - 8
3-793-022	30.88	CAT 50-ANSI Solid	45°	1.140	0.820	0.820	2.300	1.000	.700	1 - 8

CAT Coolant

Part Number	Retail Price	Type	A	d1	d2	d3	d4	L	l1	l2	T
3-793-028	17.06	CAT 40-ANSI-C	45°	0.740	0.490	0.490	0.157	1.500	0.640	.440	5/8 - 11
3-793-030	17.06	CAT 40-Coolant-I	45°	0.590	0.394	0.512	0.157	2.250	1.266	.990	5/8 - 11
3-793-032	17.06	CAT 40-Coolant-II	60°	0.590	0.394	0.512	0.157	2.250	1.266	.990	5/8 - 11
3-793-034	17.06	CAT 40-Coolant-III	90°	0.590	0.394	0.512	0.157	2.250	1.266	.990	5/8 - 11
3-793-036	35.86	CAT 50-Coolant-I	45°	0.906	0.669	0.827	0.197	3.346	1.772	1.378	1 - 8
3-793-038	35.86	CAT 50-Coolant-II	60°	0.906	0.669	0.827	0.197	3.346	1.772	1.378	1 - 8
3-793-040	35.86	CAT 50-Coolant-III	90°	0.906	0.669	0.827	0.197	3.346	1.772	1.378	1 - 8
3-793-044	26.90	CAT 50-ANSI-C	45°	1.140	0.820	0.820	0.197	2.300	1.000	.700	1 - 8



BT Solid

Part Number	Retail Price	Type	A	D	d1	d2	d3	L	l1	l2	T
3-793-402	9.26	BT 30 - 45° Metric, Solid	45°	16.5	11	7	12.5	43	23	18	M12
3-793-404	9.26	BT 40 - 45° Metric, Solid	45°	23	15	10	17	60	35	28	M16
3-793-406	9.26	BT 40 - 45° Metric, Solid	45°	23	15	10	-	60	35	28	M16
3-793-410	21.17	BT 50 - 45° Metric, Solid	45°	38	23	17	25	85	45	35	M24
3-793-412	9.26	BT 30 - 60° Metric, Solid	60°	16.5	11	7	12.5	43	23	18	M12
3-793-414	9.26	BT 40 - 60° Metric, Solid	60°	23	15	10	17	60	35	28	M16
3-793-416	21.17	BT 50 - 60° Metric, Solid	60°	38	23	17	25	85	45	35	M24
3-793-418	9.26	BT 30 - 90° Metric, Solid	60°	16.5	11	7	12.5	43	23	8	M12
3-793-420	9.26	BT 40 - 90° Metric, Solid	60°	23	15	10	17	60	35	28	M16
3-793-422	21.17	BT 50 - 90° Metric, Solid	60°	38	23	17	25	85	45	35	M24

BT Coolant

Part Number	Retail Price	Type	A	D	d1	d2	d3	d4	L	l1	l2	T
3-793-426	14.78	BT 40 - 45° Metric, Coolant	45°	23	15	10	17	4	60	35	28	M16
3-793-428	14.78	BT 40 - 60° Metric, Coolant	60°	23	15	10	17	4	60	35	28	M16
3-793-430	14.78	BT 40 - 90° Metric, Coolant	90°	23	15	10	17	4	60	35	28	M16
3-793-432	26.90	BT 50 - 45° Metric, Coolant	45°	38	23	17	25	5	85	45	35	M24
3-793-434	26.90	BT 50 - 60° Metric, Coolant	60°	38	23	17	25	5	85	45	35	M24
3-793-436	26.90	BT 50 - 90° Metric, Coolant	90°	38	23	17	25	5	85	45	35	M24

Prices are subject to change without notice



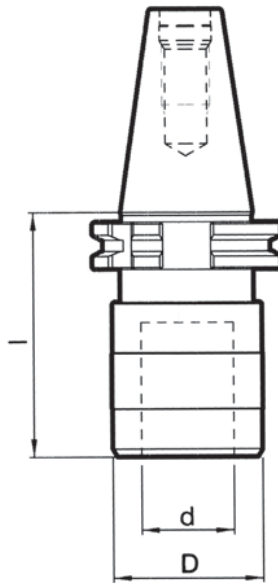
Tap Holders

Integral Shank Tension/Compression Tap Holders with CAT and BT Tapers, Series Number 32,000, Quick Change

- Compatible with BILZ System
- 11 Piece Tap Holder and Adapter Sets available, see next page
- This product does not have through spindle coolant capability



BT Taper



CAT Taper

Taper Size	BT Taper		CAT Taper		D inches	d mm	Tap Capacity	Chuck Size	Tap Collet Number	Tap Shank Dia	Tension Compression
	Part Number	l	Part Number	l							
40	3-336-419	2.658	3-338-419	2.972	1.30	19	M1.6-M14 0-9/16" 1/8" NPT	#1	19/11-	0.110-0.472	0.3543
50	-		3-338-519								
40	3-336-431	3.543	3-338-431	3.397	1.97	31	M7-M20 5/16"-7/8" 1/8"-1/2" NPT	#2	31/12-	0.236-0.866	0.5906
50	-	3.976	3-338-531								
40	3-336-448	4.606	3-338-448	5.394	2.83	48	M12-M33 9/16"-1-3/8" 3/4"-1" NPT	#3	48/13-	0.354-1.417	0.9449
50	-	-	3-338-548	5.197							
50	-	-	3-338-560	5.787	3.86	60	M36-M42 1-1/2"-1-7/8" 1-1/4"-1-1/2" NPT	#4	60/14-	0.630-1.417	1.0236

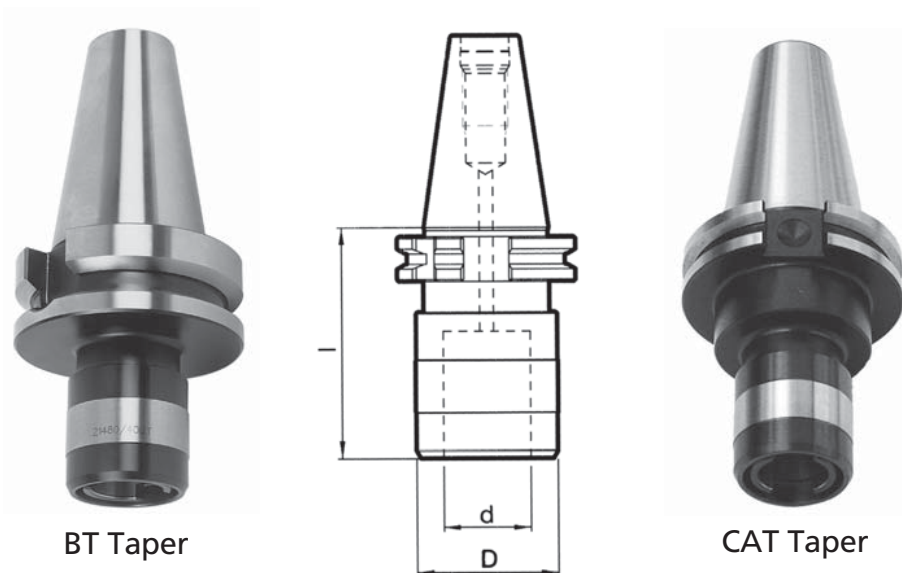
Taper Size	BT Taper		CAT Taper	
	Part Number	Retail Price	Part Number	Retail Price
40	3-336-419	300.83	3-338-419	288.23
50	-	-	3-338-519	429.98
40	3-336-431	390.08	3-338-431	372.75
50	-	-	3-338-531	466.20
40	3-336-448	843.68	3-338-448	805.35
50	-	-	3-338-548	854.18
50	-	-	3-338-560	1,200.15

Prices are subject to change without notice

Integral Shank Rigid Tap Holders

with CAT and BT Tapers, Series Number 21,080, Quick Change

- Compatible with BILZ System
- Through spindle coolant capability
- Tap Holder and Adapter sets available



BT Taper

CAT Taper

Taper Size	BT Taper			CAT Taper			D inches	d mm	Tap Capacity	Chuck Size	Tap Collet Number	Tap Shank Dia
	Part Number	Retail Price	l	Part Number	Retail Price	l						
40	3-337-419	230.48	2.638	3-339-419	246.23	2.638	1.3	19	M1.6-M14 0-9/16" 1/8" NPT	#1	19/11-	0.110-0.472
50	-	-	3.071	3-339-519	308.70	3.071						
40	3-337-431	303.98	3.543	3-339-431	246.23	3.543	1.97	31	M7-M20 5/16"-7/8" 1/8"-1/2" NPT	#2	31/12-	0.236-0.866
50	-	-	3.976	3-339-531	336.53	3.976						
50	-	-	4.921	3-339-548	619.50	4.606	2.83	48	M12-M33 5/16"-7/8" 1/8"-1/2" NPT	#3	48/13-	0.354-1.417

11 Piece Tap Holder and Tap Adapter Set

Taper Size	Set Part Number	Retail Price	Tap Adapters Included in Set Part Number	Holder Included in Set Part Number	Tap Sizes
CAT40	3-339-719	615.00	7-340-1036	7-339-419	#6
			7-340-1041		#8
			7-340-1048		#10
			7-340-1054		#12
			7-340-1063		1/4
			7-340-1079		5/16
			7-340-1095		3/8
			7-340-1111		7/16
			7-340-1127		1/2
			7-340-1142		9/16



Prices are subject to change without notice



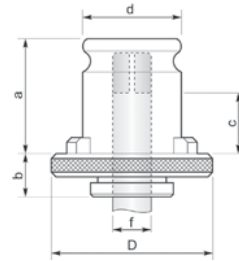
Tap Holders

TOOLMEX
Industrial Solutions

TAP HOLDERS

Quick Change Positive Drive Tap Adapters

Tap Shank ANSI B94.9-1999



* Long Shank
** Short Shank

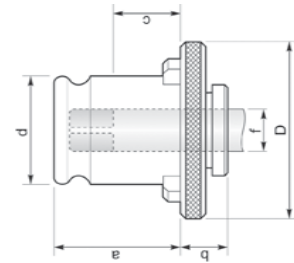
Tap Size		Chuck Size	Part Number	Retail Price	Tap Shank Dia f	Drive Square Size	a	b	c	d	D	Type						
inches	mm				inches		mm											
#6	M1.6-M3.5	#1	3-340-1036	38.12	0.141	0.110	21.5	7	11	19	30	19/11-4036						
#8	M4		3-340-1041	38.12	0.168	0.131						19/11-4041						
#10	M4.5, M5		3-340-1048	38.12	0.194	0.152						19/11-4048						
#12	-		3-340-1054	38.12	0.220	0.165						19/11-4054						
1/4	M6, M6.3		3-340-1063	38.12	0.255	0.191						19/11-4063						
5/16	M7, M8		3-340-1079	38.12	0.318	0.238						19/11-4079						
3/8	M10		3-340-1095	38.12	0.381	0.286						19/11-4095						
1/8 NPT(LS)*	-		3-340-1097	38.12	0.437	0.328						19/11-4097						
1/8 NPT(SS)**	-		3-340-1098	38.12	0.313	0.234						19/11-4098						
7/16	M11		3-340-1111	38.12	0.323	0.242						19/11-4111						
1/2	M12, M12.5		3-340-1127	38.12	0.367	0.275						19/11-4127						
9/16	M14		3-340-1142	38.12	0.429	0.322						19/11-4142						
5/16	M7, M8		#2	3-340-2079	50.82	0.318						0.238	35	9	19	31	46	31/12-4079
3/8	M10			3-340-2095	50.82	0.381						0.286		9	19			31/12-4095
7/16	M11	3-340-2111		50.82	0.323	0.242	9	19	31/12-4111									
1/2	M12, M12.5	3-340-2127		50.82	0.367	0.275	9	19	31/12-4127									
9/16	M14	3-340-2142		50.82	0.429	0.322	10	9	31/12-4142									
5/8	M16	3-340-2158		50.82	0.480	0.360	9	19	31/12-4158									
11/16	M18	3-340-2174		50.82	0.542	0.406	9	19	31/12-4174									
3/4	-	3-340-2190		50.82	0.590	0.442	10	9	31/12-4190									
13/16	M20	3-340-2205		50.82	0.652	0.489	9	19	31/12-4205									
7/8 UNF	-	3-340-2222		50.82	0.697	0.523	10	9	31/12-4222									
1/4 NPT	-	3-340-2131		50.82	0.562	0.421	10	9	31/12-4131C									
3/8 NPT	-	3-340-2166		50.82	0.700	0.531	10	9	31/12-4166C									
1/2 NPT	-	3-340-2209		50.82	0.6875	0.515	10	9	31/12-4209C									
1/2	M12, M12.5	#3		3-340-3127	135.45	0.367	0.275	55.5	10	17	48	48		48/13-4127				
9/16	M14		3-340-3142	135.45	0.429	0.322	10		17	48/13-4142								
5/8	M16		3-340-3158	135.45	0.480	0.360	10		17	48/13-4158								
3/8 NPT	-		3-340-3166	135.45	0.700	0.531	10		7	48/13-4166C								
11/16	M18		3-340-3174	135.45	0.542	0.406	10		27	48/13-4174								
3/4	-		3-340-3190	135.45	0.590	0.442	10		23	48/13-4190								
13/16	M20		3-340-3206	135.45	0.652	0.489	10		27	48/13-4206								
1/2 NPT	-		3-340-3209	135.45	0.6875	0.515	10		7	48/13-4209C								
7/8	M22		3-340-3222	135.45	0.697	0.523	10		27	48/13-4222								
15/16	M24		3-340-3238	135.45	0.760	0.570	12		30	48/13-4238								
1	M25		3-340-3254	135.45	0.800	0.600	12		27	48/13-4254								
3/4 NPT	-		3-340-3264	135.45	0.9063	0.679	13		17	48/13-4264C								
1-1/8	M27		3-340-3286	135.45	0.896	0.672	12		30	48/13-4286								
1-1/4	M30		3-340-3317	135.45	1.021	0.766	12		27	48/13-4317								
1 NPT	-	3-340-3332	135.45	1.1250	0.843	13	17	48/13-4332C										
1-3/8	M33	3-340-3349	205.80	1.108	0.831	63	12	27	60	83	48/13-4349							
1-1/2	M36	#4	3-340-4381	205.80	1.233	0.925	63	38	4	60	83	60/14-4381C						
1-5/8	M39		3-340-4412	205.80	1.305	0.925						60/14-4412C						
1-3/4	M42		3-340-4444	205.80	1.430	1.072						60/14-4444C						
1-7/8	-		3-340-4476	205.80	1.519	1.139						60/14-4476C						
1-1/4 NPT	-		3-340-4485	205.80	1.3125	0.984						60/14-4419C						
1-1/2 NPT	-		3-340-4490	205.80	1.5000	1.125						60/14-4478C						

Prices are subject to change without notice



Quick Change Torque Control Tap Adapters

Tap Shank ANSI B94.9-1999



Tap Size		Chuck Size	Part Number	Retail Price	Tap Shank Dia f	Square Drive Size	a	b	c	d	D	Type						
inches	mm				inches								mm					
#6	M1.6-M3.5	#1	3-341-1036	95.34	0.141	0.110	21.5	25	8	19	32	19/1-4036						
#8	M4		3-341-1041	95.34	0.168	0.131						19/1-4041						
#10	M4.5, M5		3-341-1048	95.34	0.194	0.152						19/1-4048						
#12	-		3-341-1054	95.34	0.220	0.165						19/1-4054						
1/4	-		3-341-1063	95.34	0.255	0.191						19/1-4063						
5/16	M7, M8		3-341-1079	95.34	0.318	0.238						19/1-4079						
3/8	M10		3-341-1095	95.34	0.381	0.286						19/1-4095						
1/8 NPT(LS)*	-		3-341-1097	95.34	0.437	0.328						19/1-4097						
1/8 NPT(SS)**	-		3-341-1098	95.34	0.313	0.234						19/1-4098						
7/16	M11		3-341-1111	95.34	0.323	0.242						19/1-4111						
1/2	M12, M12.5		3-341-1127	95.34	0.367	0.275						19/1-4127						
9/16	M14		3-341-1142	95.34	0.429	0.322						19/1-4142						
5/16	M7, M8		#2	3-341-2079	124.95	0.318						0.238	35	33	4	31	50	31/2-4079
3/8	M10	3-341-2095		124.95	0.381	0.286	33	4	31/2-4095									
7/16	M11	3-341-2111		124.95	0.323	0.242	33	4	31/2-4111									
1/2	M12, M12.5	3-341-2127		124.95	0.367	0.275	33	4	31/2-4127									
9/16	M14	3-341-2142		124.95	0.429	0.322	34	15	31/2-4142									
5/8	M16	3-341-2158		124.95	0.480	0.360	33	4	31/2-4158									
3/4	-	3-341-2190		124.95	0.590	0.442	34	15	31/2-4190									
13/16	M20	3-341-2205		124.95	0.652	0.489	33	4	31/2-4205									
7/8	M22	3-341-2222		124.95	0.697	0.523	33	4	31/2-4222									
1/4 NPT	-	3-341-2135		124.95	0.562	0.421	33	4	31/2-4131C									
3/8 NPT	-	3-341-2168		124.95	0.700	0.531	34	15	31/2-4166C									
3/4	-	#3		3-341-3190	271.43	0.590	0.442	55.5	42	8	48	72						48/3-4190
13/16	M20			3-341-3206	271.43	0.652	0.489											42
1/2 NPT	-		3-341-3209	271.43	0.6875	0.515	43						24	48/3-4209C				
7/8	M22		3-341-3222	271.43	0.697	0.523	43						4	48/3-4222				
15/16	M24		3-341-3238	271.43	0.760	0.570	44						4	48/3-4238				
1	M25		3-341-3254	271.43	0.800	0.600	44						4	48/3-4254				
1-1/8	M27		3-341-3286	271.43	0.896	0.672	44						1	48/3-4286				
1-3/8	M33		3-341-3349	271.43	1.108	0.831	44						1	48/3-4349				

Prices are subject to change without notice

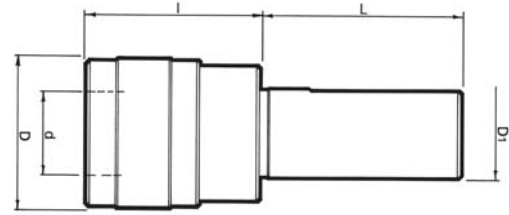


Tap Holders

TOOLMEX
Industrial Solutions

Tension and Compression Tapping Chucks with Cylindrical Shank

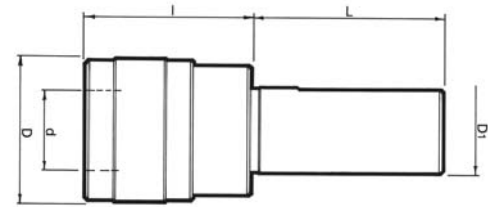
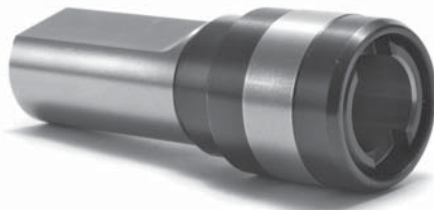
- Provides axial float
- Adjustable entry force



Shank Size D1	Chuck Size	Part Number	Retail Price	d	D	l	L	Tap Capacity	Compensation	
1.00	#1	3-344-010	391.65	.748	1.50	1.76	1.95	#6-9/16"	.35	.35
	#2	3-344-020	483.53	1.220	2.17	2.52	2.00	5/16"-1/2 NPT	.59	.59
1.50	#2	3-344-030	515.03	1.220	2.17	2.52	3.50	5/16"-1/2 NPT	.59	.59
	#3	3-344-040	938.18	1.890	3.09	3.85	3.50	1/2"-1-3/8"	.94	.94

Rigid Tapping Chucks with Cylindrical Shank

- Coolant through spindle capability
- No float for synchronous tapping



Shank Size D1	Chuck Size	Part Number	Retail Price	d	D	l	L	Tap Capacity
1.00	#1	3-343-010	182.70	.748	1.30	1.60	1.95	#6-9/16"
	#2	3-343-020	233.10	1.220	2.00	2.50	2.00	5/16"-1/2 NPT

Prices are subject to change without notice

The terms and conditions presented here are subject to change on our website at www.toolmex.com

Pricing

- Prices are subject to change without notice
- F.O.B. Natick, Massachusetts warehouse
- Payment: Net 30
- NSF charge: \$35.00

Return Policy

1. All returns are subject to the discretion of the Toolmex Corporation
2. All returns require prior approval, and an assigned Return Merchandise Authorization number to the requested return
3. When calling to request an RMA, please have the following information available:
 - (a) Your purchase order number
 - (b) Our order number or invoice number
 - (c) Our part number
 - (d) Reason for return
4. Merchandise must be in original packaging and in resalable condition
5. All returns are subject to inspection prior to credit issued to the customer
6. The following return charges may apply:
 - (a) Toolmex error – No restocking charge and no freight charge
 - (b) Customer error – returned in original carton – in resalable condition
 - New order of equal or greater value placed at time of return – no restocking charge
 - No Replacement order – 10% restocking charge
 - (c) Customer error – not in original carton – 25% repackaging charge
 - (d) Customer error – merchandise not in resalable condition – no credit due
 - (e) Large authorized returns not packaged well – 25% repackaging charge

Customer error – the customer is responsible for all freight charges – original order and returns
7. Defective returns are subject to evaluation prior to credit being issued. Immediate replacement orders will be billed. Credit will be issued after the returned product has been evaluated

We are at your service:

8AM - 6PM EST ready to help you
Click: www.toolmex.com to order 24/7
Call Toll Free: +1-800-992-4766
Call Direct: +1-508-653-8897
Fax: +1-508-653-5110

8. No credit will be issued on authorized returns due to the following conditions:
 - (a) Item has been used – not in resalable condition
 - (b) Item has been modified by customer
 - (c) Item has been damaged
 - (d) Item returned does not match item authorized to return

The material will be returned to the customer at their expense or disposed of at our end
9. Cancellation of order: such requests may be subjected to a maximum 50% cancellation charge, depending on our availability to cancel with our suppliers
10. Unauthorized returns with no paperwork will not be processed, and no credit due to customer. Such returns are subject to be returned to customer with all freight charges the responsibility of the customer
11. Claims: All Claims must be made within seven days from receipt of merchandise
12. Short Shipments: Toolmex must be notified within 30 days of all short shipments
13. Damaged or lost shipments:
 - (a) UPS – Notify your local UPS office and Toolmex Corporation immediately. Keep damaged tools and packaging until you are advised to dispose of them
 - (b) TRUCK – Toolmex Corporation is not liable for merchandise damaged or lost by trucking companies

Please have the driver note the damage or shortage on the freight bill. The customer should file a claim with the trucking company, and reorder the product with Toolmex immediately
14. Warranty: Our products have a one year Limited Warranty. Warranty coverage begins on the day the product is purchased by the customer. After one year from the date of purchase the product is non-returnable

See page 839 for Motor Warranty and Sales Policies

We reserve the right to refuse to honor any incorrect prices as prices are subject to change from our suppliers

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+1-508-653-8897 • 800-992-4766 • Fax +1-508-653-5110

Natick, MA

Corporate Headquarters
1075 Worcester Street
Natick, MA 01760

Schaumburg, IL

Regional Headquarters
2015 S. Mitchell Blvd.
Schaumburg, IL 60193

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