

HARDINGE WORKHOLDING

Swiss-Type Collets & Bushings



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All the workholding you need for Swiss turning can be ordered from one reliable source...

- Headstock Collets
- Pickoff Collets
- Carbide Guide Bushings
- Bar Loader Collets
- Custom Manufacturing

Dedicated teams and work cells manufacture to rigid specifications including material and heat treatment, with a process control that leads the industry. Every collet and guide bushing is inspected on a Hardinge SUPER-PRECISION® (.000015" TIR) headstock before reaching the stock room.

Top-of-the-line machine tools and highly-skilled machinists provide exceptional productivity and accuracy. Wire and Ram (EDM) Electrical Discharge Machines produce custom collet shapes, stepped-holes and extended-nose pickoff collets.

Hardinge staffs a team of custom workholding engineers, phone correspondents and support staff, along with dedicated manufacturing cells, for fast and accurate turnaround to meet your custom Swiss turning requirements.

Hardinge and Citizen Machinery America Inc. have partnered to provide overgrip collets and adaptive guide bushings that will add flexibility to the machine and save money in the shop.

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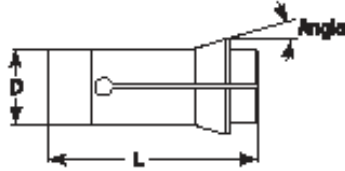
www.SwissCollets.com/Finder – direct search by machine model or collet style



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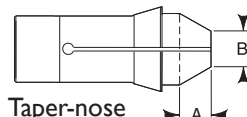
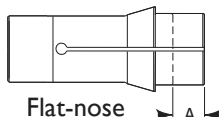
Precision-machined Collets



Hardinge Swiss-type Collets are ground to precise size and TIR to meet precision machining requirements with a standard accuracy that rivals the industry.

Machine Tool Builder	Collet Model No.	Hardinge Part No.	Head Angle	D Bearing Diameter	L Overall Length	RATED COLLET CAPACITY			
						Round Smooth Min./Max.	Round Serrated Min./Max.	Hex Min./Max.	Square Min./Max.
Tsugami	BS38	4735	15° 15'	1.889" (47.98)	3.937" (100)	.008" to 1.562" (.20 to 39.67)	.078" to 1.562" (1.98 to 14.27)	.250" to 1.344" (6.35 to 34.14)	.250" to 1.093" (6.35 to 27.76)
Tornos	F20-201	4709	15°	.7864" (19.99)	2.126" (54)	.008" to .630" * (.20 to 16.00)	.078" to .630" * (1.98 to 16.00)	.0625" to .545" (1.58 to 13.84)	.0625" to .445" (1.58 to 11.30)
Maier	F32-221	3731	15°	1.260" (32)	2.953" (75)	.062" to 1" (1.58 to 25.4)	.078" to 1" * (1.98 to 25.4)	.250" to .875" (6.35 to 22.23)	.250" to .687" (6.35 to 17.45)
Peterman, Strohm, Tornos, Tsugami, Citizen	TF8	4701	15° 35'	.3148" (8)	1.614" (41)	.008" to .250" (.20 to 6.35)	.078" to .250" (1.98 to 6.35)	.0625" to .216" (1.58 to 5.49)	.0625" to .176" (1.58 to 4.47)
Peterman, Strohm, Tornos, Citizen, Star	TF10	4703	20°	.3935" (10)	1.870" (47.50)	.008" to .281" (.20 to 7.14)	.078" to .281" (1.98 to 7.13)	.0625" to .243" (1.58 to 6.17)	.0625" to .198" (1.58 to 5.03)
Tornos	TF13	4707	16°	.5115" (13)	2.520" (64)	.008" to .394" (.20 to 10.01)	.078" to .394" (1.98 to 10.00)	.0625" to .341" (1.58 to 8.66)	.0625" to .279" (1.58 to 7.09)
Citizen, Maier, Star, Tornos, Tsugami	TF15	4607	16°	.5903" (15)	2.520" (64)	.008" to .500" * (.20 to 12.70)	.078" to .500" * (1.98 to 12.70)	.0625" to .433" (1.58 to 10.99)	.0625" to .353" (1.58 to 8.96)
Citizen, KSI, Hanwha, Tornos	TF16	4609	16°	.6297" (16)	2.520" (64)	.008" to .500" * (.20 to 12.70)	.078" to .500" * (1.98 to 12.70)	.0625" to .433" (1.58 to 10.99)	.0625" to .353" (1.58 to 8.96)
Maier, Star, Tornos, Tsugami, Traub	TF20	4611	16°	.7869" (19.99)	2.638" (67)	.008" to .625" * (.20 to 15.87)	.078" to .625" * (1.98 to 15.87)	.0625" to .541" (1.58 to 13.74)	.0625" to .442" (1.58 to 11.22)
Hanwha	TF22 (#12 Index)	3701	14° 50'	.8642" (21.95)	2.172" (55.17)	.015" to .656" * (.38 to 16.66)	.078" to .625" * (1.98 to 15.87)	.0625" to .562" (1.58 to 14.27)	.0625" to .469" (1.58 to 11.91)
Tsugami	TF24	4713	15° 20'	.9367" (23.79)	2.440" (62)	.008" to .688" * (.20 to 17.48)	.078" to .688" * (1.98 to 17.48)	.0625" to .595" (1.58 to 15.11)	.0625" to .486" (1.58 to 12.34)
Citizen, Hanwha, Hardinge, KSI, Maier, Star, Tornos, Tsugami, Methods	TF25	4613	16°	.9840" (25)	3.032" (77)	.008" to .813" * (.20 to 20.65)	.078" to .813" * (1.98 to 20.65)	.0625" to .704" (1.58 to 17.88)	.0625" to .574" (1.58 to 14.57)
Citizen, Hanwha, Hardinge, Star, Tornos, Tsugami, Methods	TF30	4615	16°	1.1808" (30)	3.149" (80)	.008" to 1" * (.20 to 25.40)	.078" to 1" * (1.98 to 25.40)	.093" to .866" (2.36 to 21.99)	.093" to .707" (2.36 to 17.95)
Star, Tornos	TF34	4617	16°	1.3382" (34)	3.154" (80.11)	.008" to 1.125" * (.20 to 28.57)	.078" to 1.125" * (1.98 to 28.57)	.093" to .974" (2.36 to 24.73)	.093" to .795" (2.36 to 20.19)
Citizen, Hanwha, KSI, Maier, Star, Tornos, Tsugami, Methods	TF37	4619	16°	1.4563" (37)	3.622" (92)	.008" to 1.265" * (.20 to 32.13)	.078" to 1.250" * (1.98 to 31.75)	.093" to 1.082" (2.36 to 27.48)	.093" to .883" (2.36 to 22.43)
Citizen	TF37SP	4629	16° 7'	1.456" (36.98)	3.622" (92)	.008" to 1.265" (.20 to 32.13)	.078" to 1.250" (1.98 to 31.75)	.093" to 1.082" (2.36 to 27.48)	.093" to .883" (2.36 to 22.43)
Tsugami	TF43	4737	16°	1.693" (43)	3.622" (92)	.008" to 1.500" (.20 - 38.10)	.078" to 1.500" (1.98 to 38.10)	.250" to 1.296" (6.35 to 32.92)	.250" to 1.058" (6.35 to 26.87)
KSI	TF44	0A	16.5°	1.732" (44)	3.622" (92)	.200" to 1.490" (5.08 to 25.40)	.078" to 1.490" (1.98 to 37.84)	.250" to 1.250" (6.35 to 31.75)	.250" to .875" (6.35 to 22.23)
Star	TF48 same as B42	3719	14° 50'	1.889" (48)	3.688" (93.68)	.008" to 1.657" * (.20 to 42.09)	.078" to 1.657" * (1.98 to 42.09)	1/2" to 1 1/2" (.79 to 35.71)	1/2" to 1 1/2" (.79 to 29.36)
Tornos	0161	4711	15°	1.1808" (30)	2.560" (65)	.008" to 1.000" * (.20 to 25.40)	.078" to 1.000" * (1.98 to 25.40)	.093" to .866" (2.36 to 22.00)	.093" to .707" (2.36 to 17.96)
Hardinge	0166	4677	15°	1.259" (32)	2.559" (65)	.008" to 1.125" * (.20 to 28.57)	.078" to 1.125" * (1.98 to 28.57)	.250" to .969" (6.35 to 24.61)	.250" to .797" (6.35 to 20.24)
Hardinge	S16-HMS	4621	15° 40'	.9372" (23.80)	2.441" (62)	.008" to .686" (.20 to 17.42)	.078" to .686" (1.98 to 17.42)	.0625" to .595" (1.58 to 15.11)	.0625" to .486" (1.58 to 12.34)
Hardinge	S20-HM	4623	16°	1.1021" (28)	3.032" (77)	.008" to .813" * (.20 to 20.65)	.078" to .813" * (1.98 to 20.65)	.0625" to .704" (3.17 to 17.88)	.0625" to .574" (3.17 to 14.57)
Hardinge	S25-HM	4625	16°	1.2989" (33)	3.149" (80)	.008" to 1.031" * (.20 to 26.19)	.078" to 1.031" * (1.98 to 26.19)	.093" to .892" (2.36 to 22.65)	.093" to .729" (2.36 to 18.51)
Hardinge	S25-HS	4627	16°	1.1808" (30)	3.149" (80)	.008" to 1" (.20 to 25.4)	.078" to 1.00" (1.98 to 25.4)	.093" to .866" (2.36 to 21.99)	.093" to .707" (2.36 to 17.95)
Nomura	P16C	4705	13 40'	0.786" (19.96)	2.677" (68)	.008" to .630" (.2 to 16)	.078" to .630" (1.98 / 16)	.062" to .551" (1.57 / 14)	.062" to .445" (1.57 / 11.3)
Nomura	P20C	4717	15	1.023" (25.98)	2.835" (72)	.008" to .813" (.2 to 20.65)	.078" to .813" (1.98 / 20.65)	.062" to .704" (1.57 / 17.88)	.062" to .574" (1.57 / 14.58)
Nomura	P25C	4743	13	1.259" (31.99)	3.346" (84.99)	.008" to 1.065" (.2 to 27.05)	.078" to 1.065" (1.98 to 27.05)	.062" to .923" (1.57 to 23.44)	.062" to .753" (1.57 to 19.13)

* Round collets in sizes of .500" and over have circular serrations. ** Square serrations. Millimeters in parentheses ()



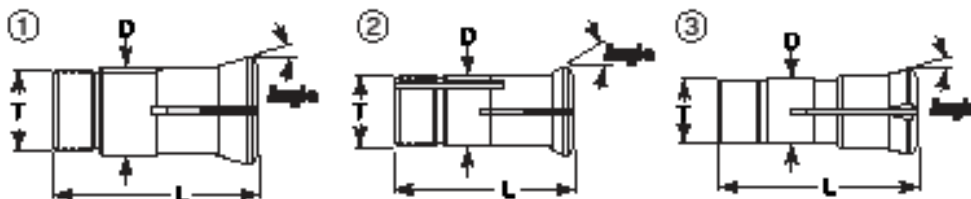
Extended-Nose Collets feature added nose length, flat or tapered, for doing pick-off work or to compensate for tooling interferences. Please provide collet model (above), hole size, length of extension (A) required, and nose diameter (B) when ordering. The (B) dimension must be a minimum of .25" larger than the hole size.

Swiss Carbide Guide Bushings



Hardinge round Swiss Guide Bushings are carbide-lined to keep the stock clean and unmarked. Specials are available in hardened steel, Meehanite lining, angular & zig-zag slotted and extruded shapes.

Machine Tool Builder	Fig.	Guide Bushing Model No.	Hardinge® Part No.	Head Angle	D Bearing Diameter	L Overall Length	T Thread Diameter	GUIDE BUSHING CAPACITY			
								Carbide-Lined		Hardened Steel	
								Round Min./Max.	Hexagon Min./Max.	Square Min./Max.	
Citizen, Tornos, Peterman	2	0201	4639	30°	.9447" (24)	2.410" (61.21)	M24 x 1	.0625" to 5/16" (1.58 to 15.87)	.125" to .541" (3.17 to 13.74)	.125" to .442" (3.17 to 11.22)	
Citizen®, Hanwha, Hardinge, KSI, Maier, Tsugami, Star	1	CD25	4651	10°	1.3384" (34)	3.445" (87.5)	M34 x 1	3/32" to 1 1/32" (2.38 to 26.19)	.093" to .893" (2.36 to 22.68)	.093" to .729" (2.36 to 18.52)	
Citizen, Peterman	1	PD4	4675	16°	.3542" (9)	1.727" (44)	M8 x .75	.030" to .188" (.76 to 4.79)	.0625" to .163" (1.58 to 4.14)	.0625" to .133" (1.58 to 3.37)	
Hardinge	1	S20HGB	4657	16°	1.1810" (30)	2.756" (70)	M28 x 1	3/32" to 13/16" (2.38 to 20.63)	.125" to .684" (3.17 to 17.37)	.125" to .558" (3.17 to 14.17)	
Citizen, Hanwha, KSI, Maier, Tsugami, Bechler, Strohm, Tornos	2	SD125R	4633	30°	.7085" (18)	2.370" (60.20)	M18 x 1	1/32" to 1/2" (.79 to 12.70)	.0625" to .433" (1.58 to 10.99)	.0625" to .353" (1.58 to 8.96)	
Star	1	SNC15	4637	12° 30'	.8266" (21)	2.263" (57.5)	M18 x 1	1/32" to 9/16" (.79 to 14.28)	.125" to .487" (3.17 to 12.36)	.125" to .397" (3.17 to 10.08)	
Tsugami	1	STM38	4739	16°	1.889" (47.98)	3.220" (81.79)	M46 x 1	1/4" to 1.496" (6.35 to 40)	1/4" to 1.295" (6.35 to 32.89)	1/4" to 1.058" (6.35 to 26.87)	
Tornos	3	T-200	4719	20° 5'	1.3383" (34)	5.920" (150.36)	M32 x 1.5	.1093" to 1.000" (2.77 to 25.40)	.1875" to .866" (4.76 to 21.99)	.1875" to .707" (4.76 to 17.95)	
Citizen, Tornos (CAM), Tsugami	1	TD7	4679	16°	.4329" (11)	2.120" (53.85)	M10 x .75	.030" to .250" (.76 to 6.35)	.0625" to .219" (1.59 to 5.56)	.0625" to .177" (1.59 to 4.5)	
Citizen, Star, Tornos, Bechler	1	TD10	4631	16°	.6298" (16)	2.377" (60.37)	M14 x 1	1/32" to 13/32" (.79 to 10.31)	.0625" to .351" (1.58 to 8.91)	.0625" to .287" (1.58 to 7.28)	
Tsugami, Tornos	1	TD20	4635	16°	.8660" (22)	2.686" (68.22)	M19 x 1	1/16" to 1 1/32" (1.58 to 13.49)	.0625" to .460" (1.58 to 11.68)	.0625" to .375" (1.58 to 9.52)	
Maier, Star, Tsugami, Traub	1	TD20R	4641	16°	.8660" (22)	2.686" (68.22)	M22 x 1	1/16" to 5/8" (1.58 to 15.87)	.0625" to .541" (1.58 to 13.74)	.0625" to .442" (1.58 to 11.22)	
Tsugami, Tornos, Bechler	2	TD25	4647	30°	1.1022" (28)	3.228" (82)	M25 x 1	3/32" to 29/32" (2.38 to 19.84)	.125" to .649" (3.18 to 16.48)	.125" to .530" (3.18 to 13.46)	
Maier, Hardinge, Star	1	TD25S	4649	16°	1.1022" (28)	3.228" (82)	M25 x 1	3/32" to 25/32" (2.38 to 20.02)	.125" to .649" (3.17 to 16.48)	.125" to .530" (3.17 to 13.46)	
Citizen, Hanwha, KSI	1	TD25NS	4659	16°	1.1022" (28)	3.228" (82)	M25 x 1	.0900" to 29/32" (2.28 to 19.84)	.125" to .649" (3.17 to 16.48)	.125" to .530" (3.17 to 13.46)	
Tsugami	1	TD26	4733	16°	1.0236" (26)	3.031" (76.99)	M25 x 1	1/16" to .781" (1.58 to 19.84)	1/16" to .676" (1.58 to 17.17)	1/16" to .552" (1.58 to 14.02)	
Citizen, Maier, Tsugami, Tornos	2	TD32	4653	20° 40'	1.6526" (41.29)	3.220" (81.79)	M40 x 1	3/16" to 1 17/64" (4.76 to 32.15)	.250" to 1.0826" (6.35 to 27.50)	.250" to .883" (6.35 to 22.42)	
Hanwha, KSI, Star, Tornos	1	TD32S	4655	16°	1.6526" (41.29)	3.232" (82.09)	M40 x 1	3/16" to 1 17/64" (4.76 to 32.15)	.250" to 1.0826" (6.35 to 27.50)	.250" to .883" (6.35 to 22.42)	
KSI	3	TD38	O/A	16°	1.811" (46)	3.622" (92)	M45 x 1	1/4" to 1 7/16" (6.35 to 36.50)	.250" to 1.250" (6.35 to 31.75)	.250" to 1.000" (6.35 to 25.40)	
Citizen, Tornos	2	TSD20	4645	30°	1.2597" (32)	2.805" (71.24)	M32 x 1	.060" to 13/16" (1.52 to 20.63)	.125" to .703" (3.17 to 17.85)	.125" to .574" (3.17 to 14.57)	
Hardinge, Tsugami	1	TSG-20R	4643	16°	.9054" (23)	2.835" (72)	M22 x 1	.030" to 1 1/16" (.76 to 17.46)	.0625" to .595" (1.58 to 15.11)	.0625" to .486" (1.58 to 12.34)	
Nomura	1	P16D	4715	15 30'	0.866" (22.00)	2.756" (70.00)	M20 X 1	.060" to .590" (1.5 to 15)	.062" to .512" (1.57 to 13)	.062" to .417" (1.57 to 10.6)	
Nomura	1	P20D	4741	15 30'	1.181" (30)	2.677" (68)	M30 X 1	.090" to .813" (2.3 to 20.65)	.062" to .750" (1.57 to 19.05)	.062" to .625" (1.57 to 15.88)	
Nomura	1	P25D	4745	13	1.417" (36)	3.543" (90)	M36 X 1	.090" to 1" (2.3 to 25.4)	.062" to .866" (1.57 to 22)	.062" to .707" (1.57 to 17.96)	



Note: Millimeters in parentheses ()

Citizen®

Machine Builders' Model No.	HEADSTOCK COLLET		CARBIDE BUSHING		ADAPTIVE	PICK-OFF COLLET		DRILL SLEEVE COLLET		ROTARY TOOL COLLET	
	Collet Model No.	Hardinge Part No.	Bushing Model No.	Hardinge Part No.	Guide Bushing*	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.
A16	TF20	4611	0201	4639	—	TF20	4611	ER11	1911	ER11	1911
A20 / 20VI	TF25	4613	TD25NS	4659	97Z-1102	TF25	4613	ER11 ER16	1911 1913	ER16	1913
A32	TF37SP	4629	TD32	4653	97Z-1653	TF37SP	4629	ER16	1913	ER16	1913
B12	TF16	4609	SD125R	4633	—	—	—	TF8 ER11	4701 1911	ER11	1911
B12 I	TF16	4609	SD125R	4633	—	—	—	ER11	1911	—	—
B12 II	TF16	4609	SD125R	4633	—	—	—	ER11	1911	ER8	2093
B12 V	TF16	4609	SD125R	4633	—	TF16	4609	ER11	1911	—	—
B12 VI	TF16	4609	SD125R	4633	—	TF16	4609	ER11	1911	ER8	2093
BL12	BL12	0A	—	—	—	—	—	ER11 ER16	1911 1913	—	—
B20	TF25	4613	TD25NS	4659	—	TF25	4613	TF8 ER11	4701 1911	ER11	1911
B20 I	TF25	4613	TD25NS	4659	—	—	—	ER16	1913	—	—
B20 V	TF25	4613	TD25NS	4659	—	TF25	4613	ER16	1913	—	—
BL25	TF48	3719	—	—	—	TF30	4615	ER11 ER16	1911 1913	ER11	1911
C16	TF20	4611	0201	4639	—	TF20	4611	ER11	1911	ER11	1911
C32	TF37SP	4629	TD32	4653	—	TF37SP	4629	ER16	1913	ER16	1913
D10	TF15	4607	TD10	4631	—	—	—	TF8	4701	—	—
D16	TF25	4613	TP20	0A	—	—	—	TF12	0A	—	—
E16	TF25	4613	0201	4639	—	TF25	4613	ER16	1913	ER11	1911
E16J	TF25	4613	0201	4639	—	TF25	4613	TF8 ER16	4701 1913	0136 ER11	0A 9311
E216	TF25	4613	0201	4639	—	TF25	4613	ER16	1913	ER16	1913
E220	TF25	4613	TSD20	4645	—	TF25	4613	ER16	1913	ER16	1913
E225/25J	TF30	4615	CD25	4651	—	TF30	4615	ER16	1913	ER16	1913
E32	TF37SP	4629	TD32	4653	—	TF37SP	4629	ER16	1913	ER16	1913
E32 IV	TF37SP	4629	TD32	4653	—	TF37SP	4629	ER16	1913	ER11 ER16	0A 1913
E32K	TF37	4619	TD32	4653	—	TF37	4619	TF10 ER16	4703 1913	ER16	1913
E232	TF37	4619	TD32	4653	—	TF37	4619	ER16	1913	ER16	1913
F10	TF15	4607	TD10	4631	—	—	—	TF8	4701	—	—
F12	TF16	4609	SD125R	4633	—	TF16	4609	TF8 ER16	4701 1913	0136	0A
F16	TF25	4613	0201	4639	—	TF25	4613	TF8 ER16	4701 1913	0136	0A
F20	TF25	4613	TSD20	4645	—	TF25	4613	TF10 ER16	4703 1913	TF8 ER16	4701 1913
F25	TF30	4615	CD25	4651	—	TF30	4615	TF10 ER16	4703 1913	TF8 ER16	4701 1913
FL32	TF37SP	4629	—	—	—	TF37SP	4629	ER20 ER25	1915 2095	ER11/16/20	1911/13/15
FL42	TF48	3719	—	—	—	TF48	3719	—	—	—	—
G16	TF25	4613	0201	4639	—	—	—	TF8	4701	—	—
G32	TF37SP	4629	TD32	4653	—	TF37SP	4629	—	—	—	—
K16	TF20	4611	0201	4639	—	TF20	4611	ER11 ER16	1911 1913	ER11	1911
L10	TF15	4607	TD10	4631	—	TF8	4701	TF8	4701	TF8	4701
L12	TF16	4609	SD125R	4633	—	TF16	4609	TF8 ER11	4701 1911	ER11	1911
L16	TF25	4613	0201	4639	—	—	—	TF8 ER16	4701 1913	—	—
L16 V	TF25	4613	0201	4639	—	TF25	4613	TF8 ER16	4701 1913	—	—
L16 VI	TF25	4613	0201	4639	—	TF25	4613	TF8 ER16	4701 1913	ER16	1913
L20	TF25	4613	TD25NS	4659	—	TF25	4613	ER16	1913	ER16	1913
L20 I/ III	TF25	4613	TD25NS	4659	—	—	—	ER16	1913	ER11 ER16	0A 1913
L20VII	TF25	4613	TD25NS	4659	—	TF25	4613	ER16	1913	ER11 ER16	0A 1913
L25	TF30	4615	CD25	4651	—	TF30	4615	ER16	1913	ER16	1913
L32	TF37SP	4629	TD32	4653	—	TF37SP	4629	ER16	1913	ER16	1913
L520/720	TF25	4613	TD25NS	4659	97Z-1102	TF25	4613	ER16	1913	ER16	1913
M12	TF16	4609	SD125R	4633	—	TF16	4609	ER11 ER16	1911 1913	TF8 ER16	4701 1913
M16	TF20	4611	0201	4639	—	TF20	4611	ER11 ER16	1911 1913	TF8 ER11	4701 0A
M20	TF25	4613	TD25NS	4659	97Z-1102	TF25	4613	TF8 ER16	4701 1913	0136 TF8	0A 4701
M32	TF37SP	4629	TD32	4653	97Z-1653	TF37SP	4629	ER16	1913	ER11 ER16	0A 1913
R04	TF8	4701	PD4	4675	—	TF8	4701	ER8	2093	ER8	2093
R07	TF15	4607	TD7	4679	—	TF15	4607	ER8	2093	ER8	2093

* Adaptive guide bushings permit the use of non-ground stock. Machine kit required from Citizen. OA = On Application (may be available as a special order)

Hardinge®

Machine Builder's Model No.	HEADSTOCK COLLET		CARBIDE BUSHING		SUB-SPINDLE COLLET		TOOL HOLDER COLLET			
	Collet Model No.	Hardinge Part No.	Bushing Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.
ST16/216	S16-HMS	4621	TSG20R	4643	S16HMS	4621	ER11 ER16	1911 1913	ER11	1911
ST20/220	S20-HM	4623	S20HGB	4657	TF25	4613	ER16 ER20	1913 1915	ER16	1913
ST25/225	S25-HM	4625	CD25	4651	S25-HS	4627	ER16 ER20	1913 1915	ER16	1913

Note: Adapter sleeves for other Swiss collets and guide bushings are available for Hardinge lathes on application

Hanwha

Machine Builders' Model No.	HEADSTOCK COLLET		CARBIDE BUSHING		PICK-OFF COLLET		TOOL HOLDER COLLET			
	Collet Model No.	Hardinge Part No.	Bushing Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.
HANEX 25	TF30	4615	CD25	4651	TF30	4615	ER11	ER16	1911	1913
ML12S	TF16	4609	SD125R	4633	TF16	4609	ER11		1911	
ML20H(18H)	TF25	4613	TD25-NS	4659	TF25	4613	ER11	ER16	1911	1913
ML20S(18S)	TF25	4613	TD25-NS	4659	TF25	4613	ER11	ER16	1911	1913
ML26H	TF30	4615	CD25	4651	TF30	4615	ER11	ER16	1911	1913
ML26S	TF30	4615	CD25	4651	TF30	4615	ER11	ER16	1911	1913
SL12S/H	TF16	4609	SD125R	4633	TF16	4609	ER11	ER16	1911	1913
SL12SE	TF16	4609	SD125R	4633	TF16	4609	ER11	ER16	1911	1913
SL20H	TF25	4613	TD25-NS	4659	TF25	4613	ER11	ER16	1911	1913
SL20HP	TF25	4613	TD25-NS	4659	TF25	4613	ER11	ER16	1911	1913
SL20S	TF25	4613	TD25-NS	4659	TF25	4613	ER11	ER16	1911	1913
SL26H	TF30	4615	CD25	4651	TF30	4615	ER11	ER16	1911	1913
SL26HP	TF30	4615	CD25	4651	TF30	4615	ER11	ER16	1911	1913
SL26S	TF30	4615	CD25	4651	TF30	4615	ER11	ER16	1911	1913
SL32HP	TF37	4619	TD32S	4655	TF37	4619	ER16		1913	
SL35HP	F40-SL35	O/A	TD35	O/A	F40-SL35	O/A	ER11	ER16	1911	1913
SL35	F40-SL35	O/A	TD45	O/A	F40-SL35	O/A	ER11	ER16	1911	1913
XP16	TF22 (#12 Index)	3701	TD20R/16	O/A	TF22	3701	ER11	ER16	1911	1913
XD12H	TF16	4609	SD125R	4633	TF16	4609	ER11		1911	
XD20	TF25	4613	TD25-NS	4659	TF25	4613	ER11	ER16	1911	1913
XD26H	TF30	4615	CD25	4651	TF30	4615	ER16		1913	

KSI

Machine Builders' Model No.	HEADSTOCK COLLET		CARBIDE BUSHING		PICK-OFF COLLET		TOOL HOLDER COLLET			
	Collet Model No.	Hardinge Part No.	Bushing Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.
SA12	TF16	4609	SD125R	4633	TF16	4609	ER11		1911	
SA20/SM20	TF25	4613	TD25-NS	4659	TF25	4613	ER16		1913	
SA26	F32-221	3731	CD25	4651	F32-221	3731	ER16		1913	
SA32	TF37	4619	TD32S	4655	TF37	4619	ER16		1913	
SA38	TF44	OA	TD38	OA	TF37	4619	ER16		1913	
SQC20	TF25	4613	TD25-NS	4659	TF25	4613	ER16		1913	
SQC32	TF44	OA	TD32S	4655	TF37	4619	ER16		1913	
SQC38	TF48	3719	TD38	OA	TF44	OA	ER16		1913	

Maier

Machine Builders' Model No.	HEADSTOCK COLLET		CARBIDE BUSHING		PICK-OFF COLLET		TOOL HOLDER COLLET			
	Collet Model No.	Hardinge Part No.	Bushing Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.
ML-12A/12B	TF15	4607	SD125R	4633	TF15	4607	ER11	1911		
ML-12C/12D	TF15	4607	SD125R	4633	TF15	4607	ER11		1911	
ML-16A/16B	TF20	4611	TD20R	4641	TF20	4611	ER11		1911	
ML-16C/16D	TF20	4611	TD20R	4641	TF20	4611	ER11		1911	
ML-20A/20B	TF25	4613	TD25S	4649	TF25	4613	ER16		1913	
ML-20C/20D	TF25	4613	TD25S	4649	TF25	4613	ER16		1913	
ML-20E	TF25	4613	TD25S	4649	TF25	4613	ER16		1913	
ML-26A/26B	F32-221	3731	CD25	4651	F32-221	3731	ER16		1913	
ML-26C/26D	F32-221	3731	CD25	4651	F32-221	3731	ER16		1913	
ML-26E	F32-221	3731	CD25	4651	F32-221	3731	ER16		1913	
ML-32A/32B	TF37	4619	TD32S	4655	TF37	4619	ER16		1913	
ML-32C/32D	TF37	4619	TD32S	4655	TF37	4619	ER16		1913	
ML-32E	TF37	4619	TD32S	4655	TF37	4619	ER16		1913	
MLK-32	TF37	4619	TD32S	4655	TF37	4619	ER16		1913	

Note: OA = On Application (may be available as special order)

Star

Machine Builders' Model No.	HEADSTOCK COLLET		CARBIDE BUSHING		PICK-OFF COLLET		TOOL HOLDER COLLET				ATTACHMENT COLLET	
	Collet Model No.	Hardinge Part No.	Bushing Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.
ECAS 12/16	TF20	4611	TD20R	4641	TF20	4611	ER11	ER16	1911	1913	—	—
ECAS 20	TF25	4613	TD25S	4649	TF25	4613	ER11	ER16	1911	1913	—	—
ECAS 32, 32T	TF37	4619	TD32S	4655	TF37	4619	ER11	ER16	1911	1913	—	—
JNC10	TF15	4607	TD10	4631	—	—	—	—	—	—	TF10	4703
JNC16	TF20	4611	TD20R SNC15	4641 4637	—	—	—	—	—	—	TF10	4703
JNC25/32	TF37	4619	TD32S	4655	—	—	ER11	ER16	1911	1913	—	—
KNC16/20B	TF25	4613	TD25S	4649	TF25	4613	ER11	ER16	1911	1913	—	—
KNC20	TF25	4613	TD25S	4649	TF25	4613	ER11	ER16	1911	1913	—	—
KNC25/32B	TF37	4619	TD32S	4655	TF37	4619	ER11	ER16	1911	1913	—	—
KNC32	TF37	4619	TD32S	4655	TF37	4619	ER11	ER16	1911	1913	—	—
KJR16B	TF20	4611	TD20R	4641	TF20	4611	ER11	ER16	1911	1913	—	—
KJR25/25B	TF30	4615	CD25	4651	TF30	4615	ER11	ER16	1911	1913	—	—
MAF42	TF48	3719	—	—	—	—	—	—	—	—	—	—
RNC10/10B	TF15	4607	TD10	4631	TF15	4607	ER11	ER16	1911	1913	—	—
RNC16 & II	TF20	4611	TD20R	4641	—	—	ER11	ER16	1911	1913	—	—
RNC16B & II	TF20	4611	TD20R	4641	TF15 TF20	4607 4611	ER11	ER16	1911	1913	—	—
SA12	TF20	4611	TD20R	4641	TF20	4611	—	—	—	—	—	—
SA16/16R	TF20	4611	TD20R	4641	TF20	4611	ER11	ER16	1911	1913	—	—
SB20	TF25	4613	TD25	4647	TF25	4613	ER11	ER16	1911	1913	—	—
SB16/16S	TF20	4611	TD20R	4641	TF20	4611	ER11	ER16	1911	1913	—	—
SE12	TF20	4611	SNC15	4637	—	—	ER11	ER16	1911	1913	—	—
SE16	TF20	4611	TD20R	4641	—	—	ER11	ER16	1911	1913	—	—
SH7	TF15	4607	SW7	OA	—	—	ER11	ER16	1911	1913	—	—
SH12	TF20	4611	SNC15	4637	—	—	ER11	ER16	1911	1913	—	—
SH16	TF20	4611	TD20R	4641	—	—	ER11	ER16	1911	1913	—	—
SI 12/12C	TF20	4611	SNC15	4637	TF20	4611	ER11	ER16	1911	1913	—	—
SNC10DX	TF15	4607	TD10	4631	—	—	—	—	—	—	TF10	4703
SNC15DX	TF20	4611	TD20R	4641	—	—	—	—	—	—	TF10	4703
SNC25DX	TF34	4617	TD32S	4655	—	—	—	—	—	—	TF10	4703
			CD25	4651	—	—	—	—	—	—	F18-579	OA
SR10J	TF15	4607	TD10	4631	TF15	4607	—	—	—	—	TF10	4703
SR16/16R	TF20	4611	TD20R	4641	TF20	4611	ER11	ER16	1911	1913	—	—
SR20/20R	TF25	4613	TD25S	4649	TF25	4613	ER11	ER16	1911	1913	—	—
20RII/20RS	TF25	4613	TD25S	4649	TF25	4613	ER11	ER16	1911	1913	—	—
SR32/SR32J	TF37	4619	TD32S	4655	TF37	4619	—	—	—	—	—	—
SST16	TF20	4611	TD20R	4641	TF10 TF20	4703 4611	ER11	ER16	1911	1913	—	—
STM32	TF37	4619	TD32S	4655	—	—	—	—	—	—	TF10 TF15	4703 4607
											F18-579	OA
STM38	TF48	3719	—	—	—	—	—	—	—	—	TF10 TF15	4703 4607
	same as B42		—	—	—	—	—	—	—	—	F18-579	OA
SV12	TF20	4611	TD20R	4641	—	—	—	—	—	—	—	—
SV20	TF25	4613	TD25S	4649	TF25	4613	ER11/16/20	—	1911/13/15	—	—	—
SV32	TF37	4619	TD32S	4655	TF37	4619	—	—	—	—	—	—
SV32J/32J II	TF37	4619	TD32S	4655	TF37	4619	—	—	—	—	—	—
SW7	TF15	4607	TD10 SW7	4631 OA	TF15	4607	ER11	—	1911	—	—	—
VNC12	TF20	4611	TD20R	4641	TF15	4607	ER11	ER16	1911	1913	—	—
VNC20	TF25	4613	TD25S	4649	TF20	4611	ER11	ER16	1911	1913	—	—
VNC32	TF37	4619	TD32S	4655	TF30	4615	ER11	ER16	1911	1913	—	—

Note: OA = On Application (may be available as special order)

Machine Tool Builders' Reference

Tornos - CNC

Machine Builders' Model No.	HEADSTOCK COLLET		CARBIDE BUSHING		PICK-OFF COLLET		DRILL SLEEVE COLLET				CROSS DRILL COLLET					
	Collet Model No.	Hardinge Part No.	Bushing Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.		
DECO 200010	TF13	4707	TD10	4631	TF13	4707	ER11	ER12	1911	2091	ER11	ER12	1911	2091		
DECO 200013	F20-201	4709	0201	4639	TF20-201	4709	ER11	ER12	1911	2091	ER11	ER12	1911	2091		
DECO 200020	TF25	4613	TD25-167	0A	TF25	4613	ER11	ER12	1911	2091	ER11	ER12	1911	2091		
DECO 2000 25/32	TF37	4619	TD32S	4655	TF37	4619	ER11	ER12	1911	2091	ER11	ER12	1911	2091		
DECO 2000 1"	0161	4711	CD25	4651	0161	4711	ER11	ER12	1911	2091	ER11	ER12	1911	2091		
Delta 20/5	TF25	4613	TD25	4647												
Delta 20/5 DD	TF25	4613	TD26	0A												
Elector16	F20-201	4709	0201	4639	—	—	AE4402		0A		WJ#3		0A			
ENC16	F20-201	4709	0201	4639	F20-201	4709	—		—		—		—			
ENC162	TF15	F20-201	4607	4709	0201	4639	—	—	ER16	ER25	1913	2095	WJ#3	0A		
ENC164	TF15	F20-201	4607	4709	0201	4639	TF15	F20-201	4607	4709	ER16	ER25	1913	2095	WJ#3	0A
ENC167	TF25	4613	TD25/167	0A	TF25	4613	ER12	16/20	2091/1913/15		ER12/16/20	2091/1913/15				
ENC74	TF13	4707	TD10	4631	TF13	4707	ER12		2091		ER12		2091			
ENC262	TF25	0161	4613	4711	T200	4719	TF25	0161	4613	4711	ER16	ER25	1913	2095	ER25	2095
ENC264	TF25	0161	4613	4711	T200	4719	TF25	0161	4613	4711	ER16	ER25	1913	2095	ER25	2095
TOP-100	TF16	4609	TD10TXP	0A	TF13	4707	ER16	ER25	1913	2095	ER12	ER25	2091	2095		
			TD18TXP	0A												
TOP-200	0161	4711	T200	4719	TF25	0161	4613	4711	ER16/20/25	1913/15/2095	ER20	ER25	1915	2095		
TMB26	F32-221	3731	SD255-36	0A	—	—	ER25	ER32	2095	1917	ER20		1915			
M10	TF15	4607	TD10/125	0A	—	—	—		—		—		—			
M20	TF25	4613	TD25TS	0A	—	—	—		—		—		—			
M25/28	TF34	0A	TD25TS	0A	—	—	—		—		—		—			
MR32	TF37	4619	TD32	0A	—	—	—		—		—		—			
R10	TF15	4607	TD10/125	0A	—	—	—		—		—		—			
R125	TF16	4609	TD10/125	0A	—	—	—		—		—		—			
R20/RR20	TF25	4613	TD25TS	0A	—	—	—		—		—		—			

Traub

Machine Builders' Model No.	HEADSTOCK COLLET		CARBIDE BUSHING		PICK-OFF COLLET		STATIONARY COLLET				ROTATING COLLET			
	Collet Model No.	Hardinge Part No.	Bushing Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.
TNL-12	TF16	4609	TRB468	0A	TF16	4609	ER11	ER16	1911	1913	ER11	ER16	1911	1913
TNL-16G	TF20	4611	TD20R	4641	TF20	4611	ER11	ER16	1911	1913	ER11	ER16	1911	1913
TNL-16G	0156	0A	TD25S	4649	0156	0A	ER11	ER16	1911	1913	ER11	ER16	1911	1913
TNL-26	TF30	4615	TRB761	0A	TF30	4615	ER11	ER16	1911	1913	ER11	ER16	1911	1913

NexTurn

Machine Builders' Model No.	HEADSTOCK COLLET		CARBIDE BUSHING		PICK-OFF COLLET		STATIONARY COLLET				ROTATING COLLET				
	Collet Model No.	Hardinge Part No.	Bushing Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	
SA12/12A	TF16	4609	SD125R	4633	TF16	4609	ER11		1911		ER11		1911		
SA18A	TF25	4613	TD25NS	4659	TF25	4613	ER11	ER16	1911	1913	ER11	ER16	1911	1913	
SA20/20E	TF25	4613	TD25NS	4659	TF25	4613	ER16		1913		ER16		1913		
SA26/26E	F32-221	3731	CD25	4651	F32-221	3731	ER16		1913		ER16		1913		
SA32	TF37	4619	TD32S	4655	TF37	4619	ER16		1913		ER16		1913		
SA38	TF44	0A	TD38	0A	TF37	TF44	4619	0A	ER16		1913		ER16		1913

Note: 0A = On Application (may be available as special order)

Nomura

Headstock Collet			Carbide Bushing		Pick-Off Collet		Toolholder Collet	
Model	Collet	Part No.	Bushing	Part No.	Collet	Part No.	Collet	Part No.
NN16	P16C	4705	P16D	4715	P16C	4705	ER11 / ER16	1911 / 1913
NN20U	P25C	4743	P25D	4745	P20C	4717	ER11 / ER16	1911 / 1913
NN20J	P20C	4717	P20D	4741	P20C	4717	ER11 / ER16	1911 / 1913
NN25	P25C	4743	P25D	4745	P25C	4743	ER11 / ER16	1911 / 1913

Tsugami

Machine Builders' Model No.	REM Model No.	HEADSTOCK COLLET		CARBIDE BUSHING		SUB-SPINDLE COLLET		TOOL HOLDER COLLETS				
		Collet Model No.	Hardinge Part No.	Bushing Model No.	Hardinge Part No.	Collet Model No.	Hardinge Part No.	Cross Drill	Face Drill	Hi-Speed Drill	Cross Tap	Vertical Drill
BA26	BA26	0166	4677	TD33	OA	0166	4677	ER16	ER16	—	—	—
BE12/12 III	BE12/12 III	TF24	4713	TSG20R	4653	TF24	4713	ER11 ER16	ER11 ER16	—	—	—
BE19	BE19	TF25	4613	TD25	4647	TF25	4613	ER11 ER16	ER11	—	—	—
BE20 III	BE20 III	TF25	4613	TD25	4647	TF25	4613	ER16 ER20	—	—	—	—
BE20V	BE20V	TF25	4613	TD25 TD26 ^ε	4647 4733	TF25	4613	ER16 ER20	—	—	—	—
BF20/BN/BW	BF20/BN/BW	TF25	4613	TD25	4647	TF25	4613	—	—	—	—	—
BH20	BH20	TF25	4613	TD25 TD26 ^ε	4647 4733	TF25	4613	—	ER11 ER16	—	—	—
BH38/BU38	BH38/BU38	TF43	4737	STM38	4739	BS38	4735	various	various	various	various	various
BO07	BO07	TF10	4703	TD7	4679	TF10	4703	ER11	ER11	—	—	—
BO125/126	BO125/BO126	TF24	4713	TSG20R/—	4653/—	TF24	4713	ER11 ER16	ER11 ER16	—	—	—
BO205/206	BO205	TF25	4613	TD26	4733	TF25	4613	ER16 ER20	ER16 ER20	—	—	—
BS12/BO/BN	BX12	TF24	4713	TSG20R	4643	TF24	4713	ER16 ER20	ER11	—	—	—
BS12 III / BO12 III	BZ12	TF24	4713	TSG20R	4643	TF24	4713	ER16 ER20	ER11	—	—	—
BS12V / BO12V	BS12V / BO12V	TF24	4713	TSG20R	4643	TF24	4713	ER16 ER20	ER11	—	—	—
BS18/BO18	BX18	TF24	4713	TSG20R	4643	TF24	4713	ER11	ER11	—	—	—
BS19	BS19	TF25	4613	TD25	4647	TF25	4613	ER11	ER11	—	—	—
BS20A/B/C	SX20A/B/C	TF25	4613	TD25	4647	TF25	4613	ER16 ER20	—	—	—	—
BS20V/SS20	BS20V/SS20	TF25	4613	TD25	4647	TF25	4613	ER16 ER20	—	—	—	—
BS26/BU26	SX26/BU26	0166	4677	CD25	4651	0166	4677	ER16 ER20	ER16 ER20	—	—	—
BS32	BS32	BS32C	OA	BS32B	OA	BS32C	OA	ER16 ER20	ER11	—	—	—
BU20	BU20	TF25	4613	TD25	4647	TF25	4613	—	ER11 ER16	—	—	—
BW07	BW07	TF10	4703	TD7	4679	TF10	4703	ER11	ER11	—	—	—
BW12/BU12	BW12/BU12	TF24	4713	TSG20R	4643	TF24	4733	ER16 ER20	ER11 ER16	—	—	—
MB35	MB35	16C	1717	—	—	—	—	—	—	—	—	—
MB38, 385/4	MB385/4	16C	1717	—	—	BS38	4735	—	—	—	—	—
MU26S/SY	MU26S/SY	0166	4677	CD25	4651	0166	4677	various	various	various	various	various
MU38/BU38	MU38/BU38	TF43	4737	STM38	4739	BS38	4735	16C	1717	—	—	—
NMP16II	ST600MARKII	TF20	4611	TD25	4647	TF20	4611	—	—	—	—	—
NP11	ST400P	TF15	4607	SD125R	4633	TF15	4607	—	ER12	—	—	—
NP16/16 II	ST600P	TF20	4611	TD25	4647	TF20	4611	ER12	ER12	TF8/4701	TF8/4701	ER16
NP17	ST700P	TF24	4713	TSG20R	4643	TF24	4713	ER12	ER12	—	—	—
NP20/20 I	ST800P	TF25	4613	TD25	4647	TF25	4613	ER16	—	—	—	ER16 ER20
NP20 II	ST800MARKII	TF25	4613	TD25	4647	TF25	4613	—	—	—	—	—
NP20 III	NP20 III	TF25	4613	TD25	4647	TF25	4613	ER16	ER16	—	—	ER16 ER20
NP32	ST1250P	TF37	4619	TD32	4653	—	—	ER16	ER16	—	—	ER16 ER20
NP32 II	ST1250MARKII	TF37	4619	TD32	4653	TF37	4619	ER16	ER16	—	—	ER16 ER20
NP32 III	NP32 III	TF37	4619	TD32	4653	TF37	4619	ER16	ER16	—	—	ER16 ER20
NT11	ST400	TF15	4607	SD125R	4633	—	—	—	—	—	—	—
NT11S	NT11S	TF15	4607	SD125R	4633	—	—	—	—	—	—	—
NT12	ST500	TF20	4611	TD20 TD20R	4635 4641	—	—	ER12	ER12	TF8/4701	TF8/4701	ER16
NT16 II/16 III	ST600	TF20	4611	TD25	4647	—	—	ER12	ER12	TF8/4701	TF8/4701	ER12
NT17	ST700	TF24	4713	TSG20R	4643	—	—	—	—	—	—	—
NT17S	NT17S	TF24	4713	TSG20R	4643	—	—	—	—	—	—	—
NT20	ST800	TF25	4613	TD25	4647	—	—	ER16	ER16	—	—	ER16 ER20
NT25	ST1000	TF37	4619	TD32	4653	—	—	ER16	—	—	—	ER16 ER20
NT32/II/III	ST1250	TF37	4619	TD32	4653	—	—	ER16	ER16	—	—	ER16 ER20
S16D/H/P	S16D/H/P	TF24	4713	TSG20R	4643	TF24	4713	ER12	ER12	—	—	—
S20	S20	TF25	4613	TD25	4647	—	—	—	—	—	—	—
S20D/S20H	S20D/S20H	TF25	4613	TD25	4647	TF25	4613	ER16	—	—	—	—
S20P	S20P	TF25	4613	TD25	4647	TF25	4613	—	—	—	—	—
S25	S25	TF30	4615	CD35	OA	TF30	4615	—	—	—	—	—
S25D/H/P	S25D/H/P	0166	4677	CD25	4651	0166	4677	ER16	ER16	—	—	—
S205/06/07	S205/06/07	TF25	4613	TD25 TD26 ^ε	4647 4733	TF25	4613	ER11 ER16	ER16	—	—	—
S520/532	S520/532	TF25	4613	TD25	4647	TF25	4613	MPC16/20	—	—	—	—
SS20/20M	SS20	TF25	4613	TD25/—	4647/—	TF25	4613	ER16 ER20	—	—	—	—
SS26, BO265II, BO266II	SS26	0166	4677	CD25	4651	0166	4677	ER11 ER16	ER16	—	—	—
SS32, BO325II, 326II, 327II	SS32	TF37	4619	TD32	4653	TF37	4619	ER16 ER20	ER16	—	—	—
SX20A	SX20A	TF25	4613	TD25	4647	TF25	4613	—	ER16	—	—	—
SX20B/20C	SX20B/20C	TF25	4613	TD25	4647	TF25	4613	ER16	ER16	—	—	—
TMU1/R/BO385	TMU1/R/—	TF43	4737	STM38	4739	BS38	4735	various	various	various	various	various
600	TF20	4611	TD25	4647	—	—	—	—	—	—	—	—
600P	TF20	4611	TD25	4647	TF20	4611	—	—	—	—	—	—

Note: ER11 Hardinge Part No: 1911, ER16 Hardinge Part No: 1913, ER20 Hardinge Part No: 1915, ER12 On Application
 OA = On Application (may be available as a special order) ^ε = Electronic

Machine Tool Builders' Reference

Cam-Operated Lathes

Bechler

Machine Builders' Model No.	COLLET		CARBIDE DRAW BUSHING	
	Collet Model No.	Hardinge Part No.	Bushing Model No.	Hardinge Part No.
A/AS/AR-10	OA	OA	TD10	4631
A/AS/AR-10	OA	OA	SD125	OA
A/AS/AR-10	OA	OA	SD125R	4633
A/AS/AR-10	OA	OA	BD10	OA
B/BR-20	OA	OA	TD25	4647

Note: Collets for Bechler Lathes are special order

Strohm

Machine Builders' Model No.		COLLET - RD / HEX / SQ		CARBIDE GUIDE BUSHING	
Headstock	Attachments	Collet Model No.	Hardinge Part No.	Bushing Model No.	Hardinge Part No.
—	M45	TF5	OA	—	—
—	M125	TF5	OA	—	—
M45	—	—	—	TSD4	OA
M45	M105	TF8	4701	0100	OA
—	M125	TF8	4701	—	—
M75	—	TF10	4703	TSD7	OA
M125	M205	TF15	4607	SD125R	4633
M105	M255	TF15	4607	—	—
M125	—	TF15R	OA	SD125R-16	OA
M205	—	TF25	4613	SD205	OA
M255	—	TF30	4615	SD255	OA

Methods

Machine Builders' Model No.	COLLET - RD / HEX / SQ		CARBIDE DRAW BUSHING	
	Collet Model No.	Hardinge Part No.	Bushing Model No.	Hardinge Part No.
SS20	TF25	4613	TSD20	4645
SS25	TF30	4615	TD25	4647
SS32	TF37	4619	TD32	4653

Peterman

Machine Builders' Model No.		STEEL COLLET		CARBIDE GUIDE BUSHING	
Headstock	Attachments	Collet Model No.	Hardinge Part No.	Bushing Model No.	Hardinge Part No.
—	P4	0131	OA	0100	OA
—	P4	—	—	PD4	4675
P0/P3	P7	0136	OA	—	—
P4	P7R	TF8	4701	—	—
P7	P10	TF10	4703	TD7	4679
—	P16	TF10	4703	—	—
P7R	—	0146	OA	—	—
P10	P16	0147	OA	—	—
—	P25	0147	OA	—	—
P10R	P16	0151	OA	—	—
—	P25	0151	OA	—	—
P16	—	0152	OA	0201	4639
2A	—	0156	OA	—	—
P25	—	0166	4677	0200	OA

Tornos

Machine Builders' Model No.		COLLET		CARBIDE GUIDE BUSHING	
Headstock	Attachments	Collet Model No.	Hardinge Part No.	Bushing Model No.	Hardinge Part No.
—	M7 • R10/R125	TF6	OA	—	—
—	R10/R125	TF7	OA	—	—
M4	M7 • R10/R125	TF8	4701	TD4	OA
				TSD4	OA
M7	M15 • R16	TF10	4703	TD7	OA
				TSD7	OA
	M15 • R16/20	TF12	OA	—	—
MS7	M7 • CT.HSK.	TF13	4707	—	—
M20	—	TF25	4613	TD25	4647
				TSD20	4645
M10	—			TD10	4631
				SD125R-16	OA
M15	—	TF20	4611	TD20	4635
M15	—			TSD15	OA
M25/28	—	TF34	4617	TD25	4647
MR32	—	TF37	4619	TD32	4653
R10	—	TF15	4607	TD10	4631
				SD125R	4633
				SD125R-16	OA
R16	—	TF20	4611	TD20	4635
				TSD15	OA
R20	—	TF25	4613	TD25	4647
				TD20	4635
RR20	—	TF25	4613	TD25	4647
				TD20	4635
				TSD20	4645
R125	M20/25/28, MR32	TF16	4609	TD10	4631
				SD125R	4633
				SD125R-16	OA

Note: OA = On Application (may be available as a special order)

Collets

Hardinge® Model Number	Hardinge Part Number	Southwick & Meister Model Number	KEB (MasWerks) Model Number	Schaublin Model Number
BS38	4735	BS38	—	—
F18-579	OA	F18-579	—	F18
F20-201	4709	F20-201	MC20-201	F20
F32-221	3731	F32-221	MC32-221	F32
TF8	4701	TF8	MC8	F8
TF10	4703	TF10	MC10	F10
TF12	OA	TF12	MC12	F12
TF13	4707	TF13	MC13	F13
TF15	4607	TF15	MC15	F15
TF16	4609	TF16	MC16	F16
TF20	4611	TF20	MC20	F20
TF22 (#12 Index)	3701	TF22	—	F22
TF24	4713	TF24	MC24	—
TF25	4613	TF25	MC25	F25
TF30	4615	TF30	MC30	F30
TF34	4617	TF34	MC34	F34
TF37	4619	TF37	MC37	F37
TF37SP	4629	TF37SP	—	—
TF43	4737	TF43	—	—
TF44	OA	TF44	MC44	—
TF48 (B42)	3719	TF48	MC48	F48
0136	OA	0136	0136	F7
0161	4711	0161	MC0161	—
0166	4677	0166	MC0166	F32
S16-HMS	4621	—	—	—
S20-HM	4623	—	—	—
S25-HM	4625	—	—	—
S25-HS	4627	—	—	—
P16C	4705	P1653C	—	—
P20C	4717	NN20KFC	—	—
P25C	4743	P2553C	—	—

Note: OA = On Application (may be available as special collets or guide bushings)

Guide Bushings

Hardinge® Model Number	Hardinge Part Number	Southwick & Meister Model Number	KEB (MasWerks) Model Number	Schaublin Model Number
CD25	4651	CD25	MCD25	—
PD4	4675	PD4	—	—
S20HGB	4657	—	—	—
SD125R	4633	SD125R	MD125R	—
SNC15	4637	SNC15	MD15	—
STM38	4739	STM38	MD38S	—
SW7	OA	SW7	MD7	—
T-200	4719	T-200	—	—
TD7	4679	TD7	MD7	—
TD10	4631	TD10	MD10	—
TD10TXP	OA	TD1-TXP	—	—
TD20	4635	TD20	MD20	—
TD20R	4641	TD20R	MD20R	—
TD25	4647	TD25	MD25TS	—
TD25/167	OA	TD25/167	—	—
TD25S	4649	TD25S (Star)	MD25	—
TD25NS	4659	TD25NS	MD25	—
TD26	4733	TD26	—	—
TD32	4653	TD32	MD32	—
TD32S	4655	TD32S	MD32S	—
TD38	OA	TD38	—	—
TSD20	4645	TSD20	MSD20	—
TSG-20R	4643	TSG-20R	MD20RTS	—
0201	4639	0201	MDO201	—
TP20	OA	TP20	MD20	—
P16D	4715	P1653D	—	—
P20D	4741	NN20KD	—	—
P25D	4745	P2553D	—	—

Emergency Collets

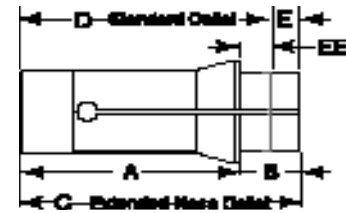
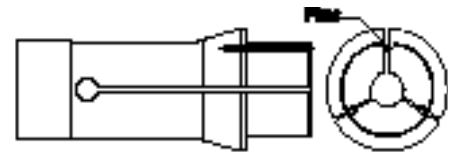
An **Emergency Collet** may be used when a standard collet is not in your current inventory. It can be machined to the desired bore size and used until a hardened collet arrives.

The **Extended-Nose Emergency Collet** features added nose length. This feature may be necessary when doing pick-off work or to compensate for tooling interferences. The head of the collet is heat-treated to 40 Rockwell for easy machining.



Standard Emergency Collets

Style	Collet Part Number	A	B	C	D	EE	Pin Part Number
TF15	4681-12-12-000000	2.284" (58)	—	—	2.520" (64)	.236" (5.99)	7723-00-00-000000 1/8" Dia. x 3/8" Long
TF16	4683-12-12-000000	2.284" (58)	—	—	2.520" (64)	.236" (5.99)	7723-00-00-000000 1/8" Dia. x 3/8" Long
TF20	4685-12-12-000000	2.362" (60)	—	—	2.638" (67)	.276" (7.01)	7723-00-00-000000 1/8" Dia. x 3/8" Long
TF25	4687-12-12-000000	2.638" (67)	—	—	3.032" (77)	.394" (10.00)	7723-00-00-000000 1/8" Dia. x 3/8" Long
TF30	4689-12-12-000000	2.760" (70)	—	—	3.149" (79.98)	.389" (9.88)	7723-00-00-000000 1/8" Dia. x 3/8" Long
TF34	4691-12-12-000000	2.760" (70)	—	—	3.154" (80.11)	.394" (10.00)	7723-00-00-000000 1/8" Dia. x 3/8" Long
TF37	4693-12-12-000000	3.230" (82)	—	—	3.622" (92)	.392" (9.95)	7723-00-00-000000 1/8" Dia. x 3/8" Long
S16-HMS	4695-12-12-000000	2.165" (55)	—	—	2.441" (62)	.276" (7.01)	7723-00-00-000000 1/8" Dia. x 3/8" Long
S25-HS	4697-12-12-000000	2.677" (68)	—	—	3.149" (80)	.472" (11.98)	7723-00-00-000000 1/8" Dia. x 3/8" Long
0166	4677-12-12-000000	2.325" (59)	—	—	2.559" (65)	.234" (6)	7723-00-00-000000 1/8" Dia. x 3/8" Long



Note: Emergency Collets have a 1/16" (1.58mm) pilot hole

Column "A" metric dimensions are rounded to nearest millimeter

Column "B" and "C" are the exact conversion of the inch dimensions

Millimeters in parentheses ()

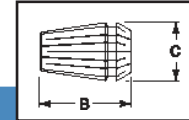
Extended-Nose Emergency Collets

Style	Collet Part Number	A	B	C	D	E	Pin Part Number
TF15	4681-12-00-000000	2.284" (58)	.424" (10.76)	2.708" (68.78)	2.520" (64)	.188" (4.77)	7722-00-00-000000 1/8" Dia. x 43/64" Long
TF16	4683-12-00-000000	2.284" (58)	.424" (10.76)	2.708" (68.78)	2.520" (64)	.188" (4.77)	7722-00-00-000000 1/8" Dia. x 43/64" Long
TF20	4685-12-00-000000	2.362" (60)	.464" (11.78)	2.826" (71.78)	2.638" (67)	.188" (7.31)	7724-00-00-000000 1/8" Dia. x 47/64" Long
TF25	4687-12-00-000000	2.638" (67)	.644" (16.35)	3.282" (83.36)	3.032" (77)	.250" (6.35)	7730-00-00-000000 1/8" Dia. x 57/64" Long
TF30	4689-12-00-000000	2.760" (70)	.889" (22.58)	3.649" (92.68)	3.149" (79.98)	.500" (12.70)	7726-00-00-000000 1/8" Dia. x 1 1/16" Long
TF34	4691-12-00-000000	2.760" (70)	.894" (22.70)	3.654" (92.81)	3.154" (80.11)	.500" (12.70)	7726-00-00-000000 1/8" Dia. x 1 1/16" Long
TF37	4693-12-00-000000	3.230" (82)	.892" (22.65)	4.122" (104.69)	3.622" (92)	.500" (12.70)	7726-00-00-000000 1/8" Dia. x 1 1/16" Long
S16-HMS	4695-12-00-000000	2.165" (55)	.464" (11.78)	2.629" (66.78)	2.441" (62)	.188" (4.77)	7724-00-00-000000 1/8" Dia. x 47/64" Long
S25-HS	4697-12-00-000000	2.677" (68)	.972" (24.68)	3.649" (92.68)	3.149" (80)	.500" (12.70)	7728-00-00-000000 1/8" Dia. x 1 1/16" Long
0166	4677-12-00-000000	2.325" (59)	.984" (25)	3.309" (84.05)	2.559" (65)	.750" (19.05)	7726-00-00-000000 1/8" Dia. x 1/4" Long

Hardinge Toolholder Collets are hardened and ground to ensure maximum life during high-production machining on Swiss-type lathes. All collets are precision ground to extremely close specifications to ensure the highest concentricity possible. The collet collapsibility range is 1mm (.03937") and can be used in stationary and rotating tool holders including PCM tool holders.



ER-Style Toolholder Collets – Inch & Metric



Description	Hardinge Part No.	Style	B Overall Length	C Outside Diameter	ID Capacity
ER-8 Collet – Metric	2093-00-17-Size	ER-8	.531" (13.50)	.334" (08.50)	1mm to 5mm by .5mm Increments
ER-11 Collet – Inch	1911-00-19-Size	ER-11	.708" (18.00)	.452" (11.50)	1/16" to 1/4" by 1/32" Increments
ER-11 Collet – Metric	1911-00-17-Size	ER-11	.708" (18.00)	.452" (11.50)	1mm to 7mm by .5mm Increments
ER-16 Collet – Inch	1913-00-19-Size	ER-16	1.083" (27.50)	.669" (16.00)	1/16" to 13/32" by 1/32" Increments
ER-16 Collet – Metric	1913-00-17-Size	ER-16	1.083" (27.50)	.669" (16.00)	1mm to 10mm by 1mm Increments
ER-20 Collet – Inch	1915-00-19-Size	ER-20	1.260" (32.00)	.827" (21.00)	1/16" to 1/2" by 1/32" Increments
ER-20 Collet – Metric	1915-00-17-Size	ER-20	1.260" (32.00)	.827" (21.00)	1mm to 13mm by 1mm Increments
ER-25 Collet – Inch	2095-00-19-Size	ER-25	1.338" (34.00)	.984" (25.00)	1/16" to 5/8" by 1/32" Increments
ER-25 Collet – Metric	2095-00-17-Size	ER-25	1.338" (34.00)	.984" (25.00)	2mm to 16mm by 1mm Increments
ER-32 Collet – Inch	1917-00-19-Size	ER-32	1.575" (40.00)	1.260" (32.00)	3/32" to 1" by 1/32" Increments
ER-32 Collet – Metric	1917-00-17-Size	ER-32	1.575" (40.00)	1.260" (32.00)	3mm to 20mm by 1mm Increments

Quick-Change Tap Collets can be used in any standard ER/DR/ESX style collet holder. Taps can be quickly changed without removing the collet, while maintaining gauge lengths from one tap to the next. The collet has a ball bearing tension compensating float and a solid square drive that eliminates tap slippage.



ERQC Quick-Change Floating Solid Tap Collets

Description	Hardinge Part No.	Style	Shank & ID	Tap Capacity
ERQC-16 Quick-Change Tap Collet	2143-00-18-Size	ERQC-16	.141", .168" and .194"	#0 to 6, #8 and #10
ERQC-20 Quick-Change Tap Collet	2145-00-18-Size	ERQC-20	.141", .168", .194", .220" and .255"	#0 to 6, #8, #10, #12, and 1/4"
ERQC-25 Quick-Change Tap Collet	2147-00-18-Size	ERQC-25	.141", .168", .194", .220", .255", .318", .381", .323" and .367"	#0 to #6, #8, #10, #12, 1/4", 5/16", 3/8", 7/16" and 1/2"
ERQC-32 Quick-Change Tap Collet	2149-00-18-Size	ERQC-32	.141", .168", .194", .220", .255", .318", .381", .323", .367" and .429"	#0 to #6, #8, #10, #12, 1/4", 5/16", 3/8", 7/16", 1/2" and 5/8"

– Millimeters in parentheses ()

ANSI Standard Tap and Collet/Shank Sizes

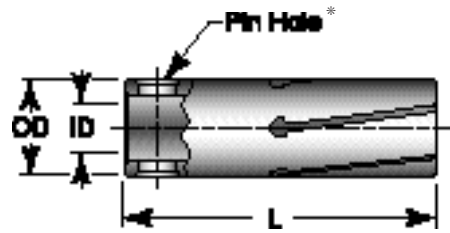
TAP Inch	#0 to #6	#8	#10	#12	1/4"	5/16"	7/16"	1/2"	3/8"	9/16"	1/8" NPT	5/8"
TAP mm	1 to 3.5	4 mm	5mm	—	6mm	8mm	—	12mm	10mm	14mm	—	16mm
SHANK	.141"	.168"	.194"	.220"	.255"	.318"	.323"	.367"	.381"	.429"	.437"	.480"

FMB Bar Loader Collet

Hardinge **Bar Loader Collets** are engineered for wear resistance, thus requiring fewer collet replacements. D-style collets are supplied with a cross hole for pin mounting and are available in fractional and decimal sizes.



Style-D



* Models 4801, 4805 and 4809 have an internal thread with no pin holes.

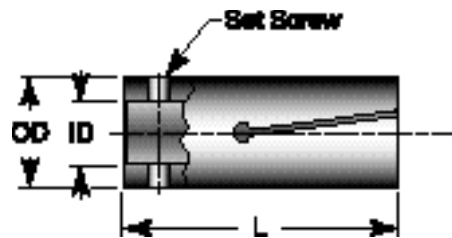
Machine Builders' Model No.	Hardinge Part No.	OD	ID	L Length	Collet Range	Increment
5D	4801*	.196" (5.00)	M4 x .7 THD	1.102" (28.00)	1/16" to 7/64" .050" to .118"	1/32" .001"
7D	4805*	.275" (7.00)	M5 x .8 THD	1.102" (28.00)	1/16" to 3/16" .050" to .197"	1/32" .001"
10D	4809*	.393" (10.00)	.275" (7.00)	1.574" (40.00)	1/16" to 5/16" .050" to .315"	1/32" .001"
12D	4813	.472" (12.00)	.314" (8.00)	1.574" (40.00)	1/16" to 25/64" .050" to .394"	1/32" .001"
15D	4819	.590" (15.00)	.433" (11.00)	1.574" (40.00)	1/16" to 1/2" .050" to .512"	1/16" .001"
18D/15	4823	.708" (18.00)	.433" (11.00)	1.574" (40.00)	13/64" to 5/8" .200" to .630"	1/16" .001"
18D/NS	4825	.708" (18.00)	.433" (11.00)	2.559" (65.00)	13/64" to 5/8" .200" to .630"	1/16" .001"
18D	4827	.708" (18.00)	.551" (14.00)	2.559" (65.00)	3/32" to 5/8" .093" to .630"	1/16" .001"
20D	4815	.787" (20.00)	.551" (14.00)	2.559" (65.00)	7/64" to 11/16" .100" to .709"	1/16" .001"
22D/20	4835	.866" (22.00)	.551" (14.00)	2.559" (65.00)	13/64" to 25/32" .200" to .787"	1/16" .001"
25D	4837	.984" (25.00)	.787" (20.00)	2.559" (65.00)	13/64" to 29/32" .200" to .906"	1/16" .001"
28D	4841	1.102" (28.00)	.787" (20.00)	2.559" (65.00)	1/2" to 1 1/64" .500" to 1.024"	1/16" .001"

Note: Order hole capacity is equal to actual size with a -.004" range and has no over-range capacity. Therefore, the order hole size cannot be smaller than the bar stock.



Style-DL

DL-style Collets all have 20mm rear bore for mounting and are secured with two set screws. This common mounting feature allows interchanging the collets between different units. Available in fractional and decimal sizes.



Machine Builders' Model No.	Hardinge Part No.	OD	ID	L Length	Collet Range	Increment	Set Screw (mm)
25DL	4847	.984" (25.00)	.787" (20.00)	3.543" (90.00)	13/64" to 5/64" .194" to .866"	1/16" .001"	M6 x 1 x 6
30DL	4849	1.181" (30.00)	.787" (20.00)	3.543" (90.00)	1/2" to 1 1/16" .500" to 1.063"	1/16" .001"	M6 x 1 x 6
32DL	4851	1.259" (32.00)	.787" (20.00)	3.543" (90.00)	5/8" to 1 9/16" .625" to 1.140"	1/16" .001"	M6 x 1 x 6
34DL	4853	1.338" (34.00)	.787" (20.00)	3.543" (90.00)	3/4" to 1 1/32" .750" to 1.218"	1/16" .001"	M6 x 1 x 6
36DL	4855	1.417" (36.00)	.787" (20.00)	3.543" (90.00)	7/8" to 1 9/64" .875" to 1.297"	1/16" .001"	M8 x 1.25 x 8
38DL	4857	1.496" (38.00)	.787" (20.00)	3.543" (90.00)	1" to 1 3/8" 1.000" to 1.378"	1/16" .001"	M8 x 1.25 x 8
42DL	4863	1.653" (42.00)	.787" (20.00)	3.543" (90.00)	1 1/4" to 1 17/32" 1.250" to 1.531"	1/16" .001"	M8 x 1.25 x 10
45DL	4865	1.771" (45.00)	.787" (20.00)	3.543" (90.00)	1 3/8" to 1 41/64" 1.375" to 1.653"	1/16" .001"	M8 x 1.25 x 10
50DL	4867	1.968" (50.00)	.787" (20.00)	3.543" (90.00)	1 1/2" to 1 27/32" 1.500" to 1.843"	1/16" .001"	M8 x 1.25 x 16
60DL	4869	2.362" (60.00)	.787" (20.00)	3.543" (90.00)	1 3/4" to 2 15/64" 1.750" to 2.244"	1/16" .001"	M8 x 1.25 x 20
65DL	4871	2.559" (65.00)	.787" (20.00)	3.543" (90.00)	2" to 2 1/16" 2.000" to 2.440"	1/16" .001"	M8 x 1.25 x 20
70DL	4873	2.756" (70.00)	.787" (20.00)	3.543" (90.00)	2 3/16" to 2 5/8" 2.187" to 2.638"	1/16" .001"	M8 x 1.25 x 20

Note: Millimeters in parentheses ()

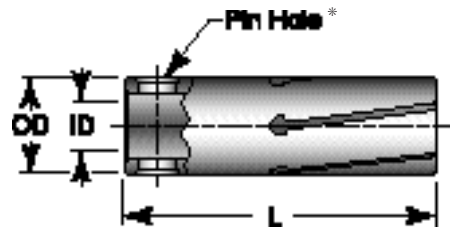
Bar loader collets are set to normal tension unless otherwise specified.

If an application requires a lighter or heavier tension, please specify when ordering.

Hardinge **Bar Loader Collets** are engineered for wear resistance, thus requiring fewer collet replacements. D-style collets are supplied with a cross hole for pin mounting and are available in fractional and decimal sizes.



Style-D



* Models 4803, 4807 and 4811 have an internal thread with no pin holes.

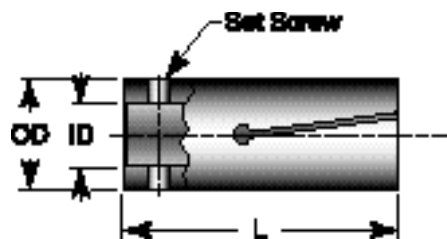
Machine Builders' Model No.	Hardinge Part No.	OD	ID	L Length	Collet Range	Increment	Cross Drill	
LN6D	4803*	.236" (6.00)	M4 x .7mm THD	1.181" (30.00)	5/64" to 5/32"	.078" to .157"	1/32" .001"	—
LN7D	4807*	.275" (7.00)	M5 x .8mm THD	1.456" (37.00)	1/8" to 5/16"	.118" to .197"	1/32" .001"	—
LN10D	4811*	.393" (10.00)	M5 x .8mm THD	1.456" (37.00)	5/64" to 5/16"	.078" to .315"	1/32" .001"	—
10D	4809	.393" (10.00)	.275" (7.00)	1.574" (40.00)	1/16" to 5/16"	.050" to .315"	1/32" .001"	.165" (4.20)
12D	4813	.472" (12.00)	.314" (8.00)	1.574" (40.00)	1/16" to 25/64"	.050" to .394"	1/32" .001"	.165" (4.20)
13D	4831	.512" (13.00)	.314" (8.00)	1.574" (40.00)	7/64" to 27/64"	.100" to .433"	1/32" .001"	.165" (4.20)
14D	4817	.551" (14.00)	.314" (8.00)	1.574" (40.00)	5/16" to 15/32"	.315" to .472"	1/32" .001"	.165" (4.20)
15D	4819	.590" (15.00)	.433" (11.00)	1.574" (40.00)	1/16" to 1/2"	.050" to .512"	1/16" .001"	.244" (6.20)
16D	4821	.630" (16.00)	.433" (11.00)	1.574" (40.00)	7/64" to 39/64"	.100" to .551"	1/16" .001"	.244" (6.20)
18D/15	4823	.708" (18.00)	.433" (11.00)	1.574" (40.00)	13/64" to 5/8"	.200" to .630"	1/16" .001"	.244" (6.20)
19D	4829	.748" (19.00)	.433" (11.00)	1.574" (40.00)	39/64" to 21/32"	.511" to .669"	1/16" .001"	.322" (8.20)
20D	4815	.787" (20.00)	.551" (14.00)	2.559" (65.00)	7/64" to 11/16"	.100" to .709"	1/16" .001"	.322" (8.20)
21D	4833	.826" (21.00)	.551" (14.00)	2.559" (65.00)	9/16" to 3/4"	.551" to .748"	1/16" .001"	.322" (8.20)
22D/20	4835	.866" (22.00)	.551" (14.00)	2.559" (65.00)	13/64" to 29/32"	.200" to .787"	1/16" .001"	.322" (8.20)
25D	4837	.984" (25.00)	.787" (20.00)	2.559" (65.00)	13/64" to 29/32"	.200" to .906"	1/16" .001"	.322" (8.20)
27D	4839	1.062" (27.00)	.787" (20.00)	2.559" (65.00)	53/64" to 63/64"	.827" to .984"	1/16" .001"	.322" (8.20)
28D	4841	1.102" (28.00)	.787" (20.00)	2.559" (65.00)	1/2" to 11/16"	.500" to 1.024"	1/16" .001"	.322" (8.20)
30D	4843	1.181" (30.00)	.787" (20.00)	2.559" (65.00)	63/64" to 13/32"	.984" to 1.102"	1/16" .001"	.322" (8.20)
32D	4845	1.259" (32.00)	.787" (20.00)	2.559" (65.00)	63/64" to 111/64"	.984" to 1.181"	1/16" .001"	.322" (8.20)

Note: Order hole capacity is equal to actual size with a -.004" range and has no over-range capacity. Therefore, the order hole size cannot be smaller than the bar stock.



Style-DL

DL-style Collets all have 20mm rear bore for mounting and are secured with two set screws. This common mounting feature allows interchanging the collets between different units. Available in fractional and decimal sizes.

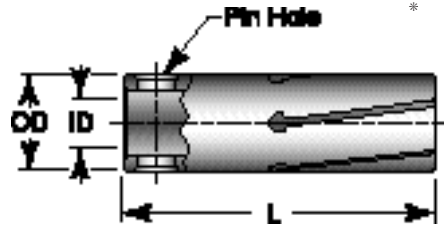


Machine Builders' Model	Hardinge Part No.	OD	ID	L Length	Collet Range	Increment	Set Screw
34DL	4853	1.338" (34.00)	.787" (20.00)	3.543" (90.00)	1 1/8" to 1 1/4"	1.102" to 1.220"	1/16" .001" M6 x 1.00mm
36DL	4855	1.417" (36.00)	.787" (20.00)	3.543" (90.00)	1 3/16" to 1 5/16"	1.181" to 1.299"	1/16" .001" M8 x 1.25mm
38DL	4857	1.496" (38.00)	.787" (20.00)	3.543" (90.00)	1 5/16" to 1 3/8"	1.260" to 1.378"	1/16" .001" M8 x 1.25mm
40DL	4859	1.574" (40.00)	.787" (20.00)	3.543" (90.00)	1 11/32" to 1 1/16"	1.339" to 1.457"	1/16" .001" M8 x 1.25mm
42DL	4863	1.653" (42.00)	.787" (20.00)	3.543" (90.00)	1 7/16" to 1 1/8"	1.417" to 1.535"	1/16" .001" M8 x 1.25mm

Note: Millimeters in parentheses (). Bar loader collets are set to normal tension unless otherwise specified. If an application requires a lighter or heavier tension, please specify when ordering. The bore range listed is recommended by LNS as the most desirable to use. Bores below listed minimum are available in fractional or decimal sizes.

Bar Loader Collets

Hardinge Bar Loader Collets are engineered for wear resistance, thus requiring fewer collet replacements. D-style collets are supplied with a cross hole for pin mounting and are available in fractional and decimal sizes.



* Models 4801 and 4805 have an internal thread with no pin holes.

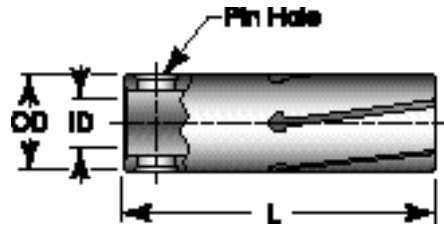
Robobar

Machine Builder's Model No.	Hardinge Part No.	OD	ID	L Length	Collet Range	Increment	Tornos Catalog No.	
5D	4801*	.196" (5.00)	M4 x .7mm THD	1.102" (28.00)	1/16" to 7/64"	.050" to .118"	1/32" .001"	26/5.5
7D	4805*	.275" (7.00)	M5 x .8mm THD	1.102" (28.00)	1/16" to 3/16"	.050" to .197"	1/32" .001"	26/7.5
10D	4809	.393" (10.00)	.275" (7.00)	1.574" (40.00)	1/16" to 5/16"	.050" to .315"	1/32" .001"	26/10.5
12D	4813	.472" (12.00)	.314" (8.00)	1.574" (40.00)	1/16" to 25/64"	.050" to .394"	1/32" .001"	26/12.5
15D	4819	.590" (15.00)	.433" (11.00)	1.574" (40.00)	1/16" to 1/2"	.050" to .512"	1/16" .001"	26/16
18D	4827	.708" (18.00)	.551" (14.00)	2.559" (65.00)	1/8" to 5/8"	.093" to .630"	1/16" .001"	—
20D	4815	.787" (20.00)	.551" (14.00)	2.559" (65.00)	7/64" to 1 1/16"	.100" to .709"	1/16" .001"	26/21
25D	4837	.984" (25.00)	.787" (20.00)	2.559" (65.00)	13/64" to 29/32"	.200" to .906"	1/16" .001"	26/26
28D	4841	1.102" (28.00)	.787" (20.00)	2.559" (65.00)	1/2" to 1 1/4"	.500" to 1.024"	1/16" .001"	—

Other Bar Loader Collets available on request.

Note: Millimeters in parentheses ()

All "D" style collets have a pin hole for mounting. The bar loader collet mounting stud on the 25D collet must be altered when using 1/2" diameter stock and smaller.



* Models 4889 and 4891 have an internal thread with no pin holes.

Citizen

Machine Builder's Model No.	Hardinge Part No.	OD	ID	Length	Collet Range	Cross Hole
4.5L	4889-	.177" (4.5)	M3 X .5 LH	1.063" (27)	.030" - .137"	
5.5L	4891-	.216" (5.5)	M3 X .5 LH	1.063" (27)	.030" - .175"	
FC7DL	4909-	.276" (7)	M6 X 1 LH EXT	1.575" (40)	.061" - .231"	
FC10DL	4911-	.393" (10)	M6 X 1 LH EXT	1.575" (40)	.078" - .334"	
FC12DL	4913-	.472" (12)	M6 X 1 LH EXT	1.575" (40)	.334" - .413"	
FC25NF	4901-	.986" (25)	.635" (16.1)	2.992" (76)	.200" - .875"	.317" (8)
FC32NF	4905-	1.260" (32)	.635" (16.1)	2.992" (76)	.625" - 1.140"	.317" (8)
FC34NF	4907-	1.339" (34)	.635" (16.1)	2.992" (76)	.750" - 1.215"	.317" (8)
CIT15NF	4893-	.591" (15)	.396" (10)	2.165" (55)	.078" - .546"	.238" (6)
CIT17NF	4895-	.669" (17)	.396" (10)	2.165" (55)	.546" - .629"	.238" (6)
CIT19NF	4897-	.748" (19)	.396" (10)	2.224" (56.5)	.629" - .669"	.238" (6)
CIT21NF	4899-	.790" (20)	.396" (10)	2.224" (56.5)	.669" - .748"	.238" (6)

Hardinge offers a complete line of tool holders, tap holders, toolholder collets, tap collets and bushings that can be used on your Swiss-type lathe. We offer reliable and economical solutions for back-end, sub-spindle and end-working slides. For more information request brochure 2351.



ERTCSP Tap Collets are designed for use in a floating tap holder. They are multi-split with more shank bearing surface than ER/DR collets. The bore is the exact size of the shank with a square broached hole to eliminate tap slippage.

ERTC Floating Tap Collets are designed for a specific tap shank size to be used in combination with tool/tap holders. These collets are not used in floating tap holders.



Floating Tap Holders for standard ER (split) collets.

Rigid Tap Holders for floating tap collets.



Standard Round Shank ER Collet Holders



HDB Hardened & Ground Split Bushings help to eliminate interference common to ER tool holders. Knurled shoulder for easy installation and removal.



For generations, Hardinge "Specials" have been the choice of experienced machinists, manufacturing engineers and forward-thinking manufacturers around the world:

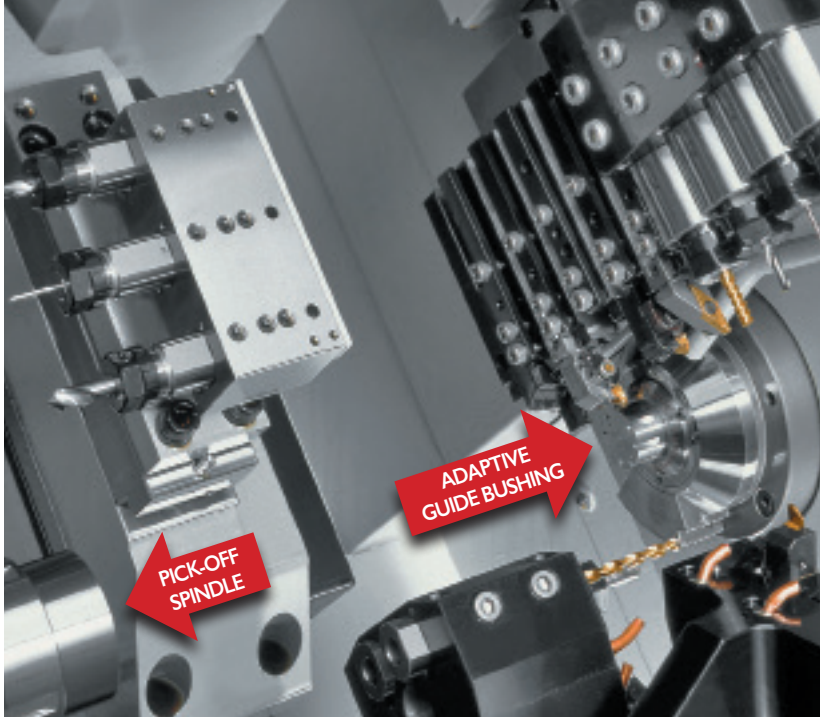


Hardinge will custom manufacture Swiss-style collets and guide bushings, as well as draw collets and step chucks. Special-accuracy collets and step chucks (typically one-half of our standard accuracy), extremely deep and/or large diameter step chucks and closers are some of the frequently made items in our special collet department. If you have a special workholding application, Hardinge can manufacture a workholding device to grip it accurately.

Specials are manufactured to rigid specifications, including material, time-proven heat treatment and machined accuracy. Hardinge's engineering department provides technical assistance in designing your collet, step chuck or related workholding device for your special machining needs.

When sample parts are being sent to us, please call for an RMA (Return Material Authorization) number to help speed up the quote process.

- rectangular**
- serrated hex or square**
- extruded shapes**
- zig-zag slotted**
- angular slotted**
- non-round**
- stepped**
- off-center**
- expanding**
- long bearing**
- long bearing carbide**
- Meehanite-lined**
- special shape**
- special accuracy**
- extended nose**
- expanding**
- off-center**
- stepped**
- non-round**
- angular slotted**
- zig-zag slotted**



Adaptive Guide Bushing Collets

The high cost of ground stock leads some shops to turn to a newer type of guide bushing, the adaptive guide bushing, which permits the use of less costly non-ground stock.

The Citizen adaptive guide bushing system uses air pressure to open and close the guide bushing collet as the size of material being machined changes. Hardinge manufactures double-angle adaptive guide bushing collets in cooperation with Citizen Machinery America for use in Citizen machines that have the adaptive guide bushing kit installed.

- Premium material and heat treat process
- Superior surface finish
- Accuracy to 0.0005" (.0127mm) TIR
- Variation of ±.003" (.08mm) to accommodate non-ground stock

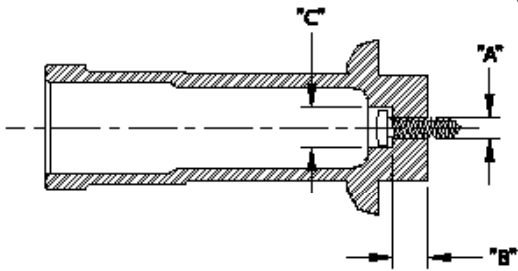
The following information is required to place your order:

Bar Size _____ Bar Tolerance _____ (±.003 max)
 Bar Material _____ Machine Model _____

** A Citizen Adaptive Guide Bushing Kit must be installed in your machine to permit use of the adaptive guide bushing collet. Kits are available for new machine orders and can also be retrofitted to some existing machines. For more information call Citizen at 201-818-0100. Part numbers are included below.

Overgrip Collets

Overgrip collets, also referred to as over-the-shoulder collets, are used on a pick-off spindle when it is required to clear a shoulder and grip on a smaller diameter beyond. A good example of this type of part would be a screw. Hardinge manufactures TF-25 OG overgrip collets for Citizen M20 and L720 lathes. **The following information is required to place your order:**



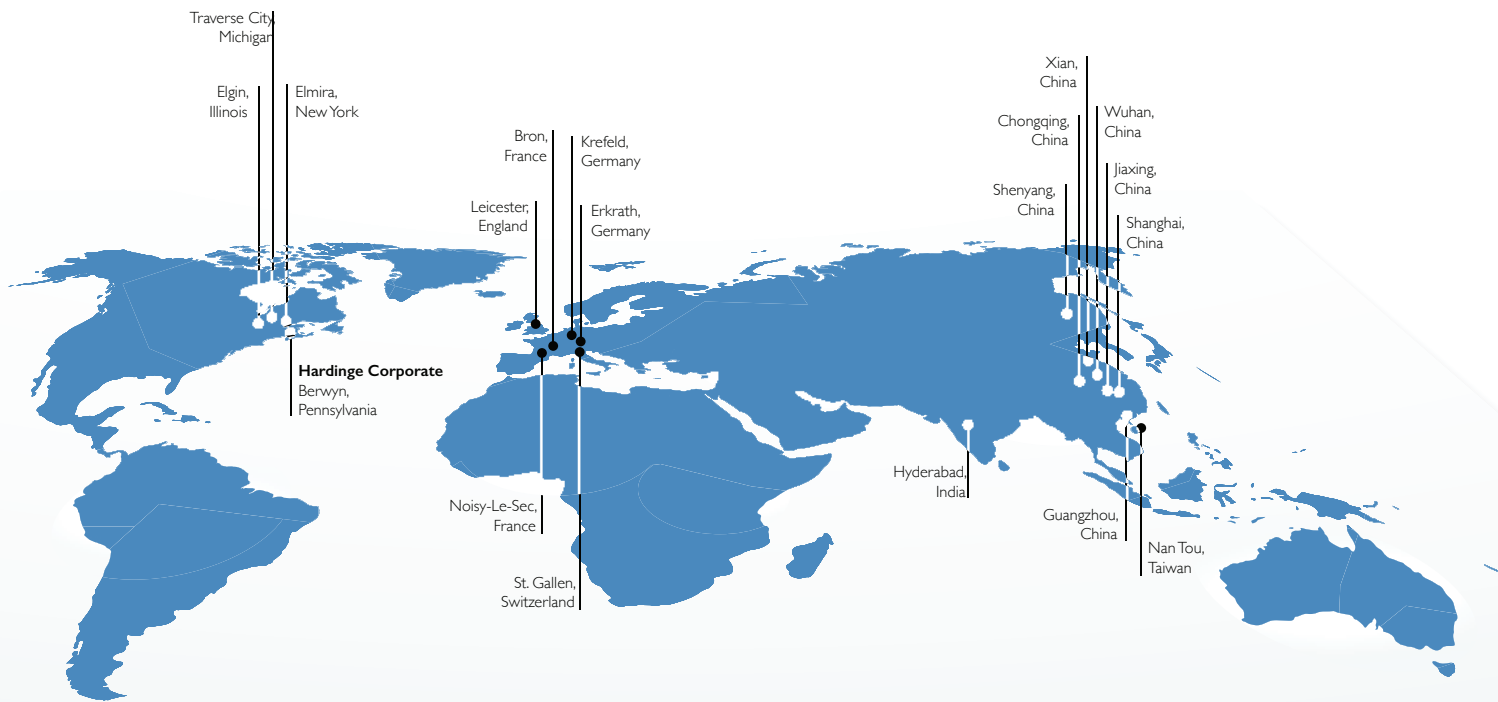
Grip Diameter "A" (max .505"/12.8mm) _____
 Grip Length "B" (max .470"/11.9mm) _____
 Part Diameter "C" (max .630"/16.0mm) _____*

* If the "C" dimension is greater than .086"/2.2mm, but less than .118"/3.0mm maximum overgrip, you must purchase an Overgrip Collet Kit from Citizen Machinery America Inc. (201-818-0100). Part numbers are included below.

CITIZEN MACHINERY AMERICA INC

in partnership with Hardinge Inc.

Citizen Machine	Overgrip Collet Hardinge Part No.	Overgrip Collet Kit * Citizen Part No.	Adaptive Guide Bushing Hardinge Part No.	Size	Capacity	Adaptive Guide Bushing Kit ** Citizen Part No.
A20 (type 7)	—	—	97Z-1102	20mm	.157-.787" (4-20mm)	GB-A220-0000
A32	—	—	97Z-1653	32mm	.236-1.259" (6-32mm)	GB-A332-0000
L720	4613-75-00000003	BD-6015	97Z-1102	20mm	.157-.787" (4-20mm)	GB-L720-0000
M20	4613-75-00000003	BD-6015	97Z-1102	20mm	.157-.787" (4-20mm)	GB-M220-0000
M32	—	—	97Z-1653	32mm	.236-1.259" (6-32mm)	GB-M332-0000



HARDINGE COMPANIES WORLDWIDE

Hardinge is a leading international provider of advanced metal-cutting solutions. We provide a full spectrum of highly reliable CNC turning, milling, and grinding machines as well as technologically advanced workholding accessories.

The diverse products we offer enable us to support a variety of market applications in industries including aerospace, agricultural, automotive, construction, consumer products, defense, energy, medical, technology, transportation and more.

We've developed a strong global presence with manufacturing operations in North America, Europe, and Asia. Hardinge applies its engineering and applications expertise to provide your company with the right machine tool solution and support every time.

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