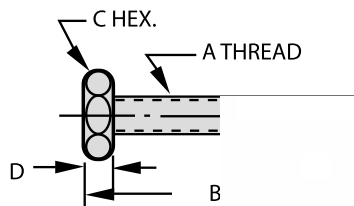


HEX-HEAD SPINDLES



Simple spindle design provides maximum clamping force. Fully threaded for maximum adjustment range. Assembly includes two jam nuts. Available in thread sizes from #8-32 to 5/8-11 (M4 to M16 in metric).



STEEL (INCH)

PART NO.	A	B	C	D
CL-316112-SA-PACKOF5	#10-32	1-3/8	5/16	1/8
CL-14112-SA-PACKOF5	1/4-20	1-11/16	7/16	3/16
CL-14200-SA-PACKOF5		2-3/16		
CL-516212-SA-PACKOF5	5/16-18	2-23/32	1/2	7/32
CL-38314-SA-PACKOF5	3/8-16	3-1/4	9/16	1/4
CL-12314-SA-PACKOF3	1/2-13	3-5/16	3/4	5/16
CL-58438-SA	5/8-11	4-3/8	15/16	3/8

VINYL-DIPPED STEEL (INCH)

CL-832208-FC-PACKOF3	#8-32	1-3/16	1/4	1/8
CL-14100-SA-PACKOF3	1/4-20	1	7/16	3/16
CL-14208-SA-PACKOF3		1-1/2		

STAINLESS STEEL (INCH)

CL-83234-SA-S-PACKOF3	#8-32	7/8	1/4	1/8
CL-832203-SA-S-PACKOF2		1-1/8		
CL-316100-SA-S-PACKOF3	#10-32	1-1/8	5/16	1/8
CL-14112-SA-S-PACKOF3	1/4-20	1-11/16	7/16	3/16
CL-516200-SA-S-PACKOF2	5/16-18	1-15/16	1/2	3/16
CL-516212-SA-S		2-11/16		
CL-38212-SA-S	3/8-16	2-1/2	9/16	1/4
CL-38314-SA-S		3-1/4		
CL-12234-SA-S	1/2-13	2-13/16	3/4	5/16

NYLON (INCH)

CL-832203-SA-PACKOF5	#8-32	7/8	1/4	1/8
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STEEL (METRIC)

PART NO.	A	B	C	D
CLM-530-SA-PACKOF5	M5	1.32	8mm	.14
CLM-640-SA-PACKOF5	M6	1.75	10mm	.18
CLM-650-SA-PACKOF5		2.15		
CLM-850-SA-PACKOF5	M8	2.19	13mm	.22
CLM-865-SA-PACKOF5		2.78		
CLM-1070-SA-PACKOF5	M10	3.03	17mm	.28
CLM-1275-SA-PACKOF3	M12	3.27	19mm	.31
CLM-16100-SA-PACKOF2	M16	4.33	24mm	.39

CLM-610-SA-S-PACKOF3	M6	.75	7mm	.12
		1.10		
		1.32	8mm	.14
		1.75		
CLM-650-SA-S-PACKOF3	M6	2.15	10mm	.18
CLM-850-SA-S-PACKOF3		2.19		
CLM-865-SA-S-PACKOF2	M8	2.78	13mm	.22
CLM-1070-SA-S	M10	3.03	17mm	.28

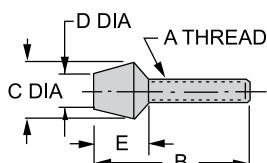
NYLON (METRIC)

CLM-416-SA-PACKOF5	M4	.75	7mm	.12
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FLAT-CUSHION SPINDLES



This is the standard spindle supplied with most clamps. Molded neoprene tip provides medium clamping force with some compensation for part-size variation. Also provides scratch free clamping. Neoprene cushion has a durometer hardness of 70 shore A, and an operating temperature range of -40°F to 220°F. Spindle is fully threaded for maximum adjustment range. Assembly includes two jam nuts.



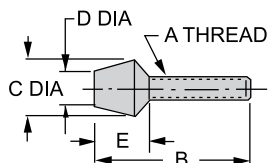
STEEL (INCH)

PART NO.	A THREAD	B	C DIA	D DIA	E
CL-316112-FC-PACKOF2	#10-32	1-3/8	9/16	.44	.40
CL-14112-FC-PACKOF2	1/4-20	1-5/8	5/8	.40	.60
CL-14200-FC-PACKOF2		2-1/8			
CL-518208-FC-PACKOF2	5/16-18	2-1/4	3/4	.48	.72
CL-516212-FC-PACKOF2		3			
CL-38212-FC-PACKOF2	3/8-16	2-9/16	7/8	.56	.84
CL-38314-FC-PACKOF2		3-9/16			

FLAT-CUSHION SPINDLES, QUICK ADJUSTING



Same as the Flat-Cushion Spindles above, except with two knurled nuts, instead of hex jam nuts, for convenient hand tightening. Use for quick spindle adjustment in applications where high-torque tightening with a wrench is not required.



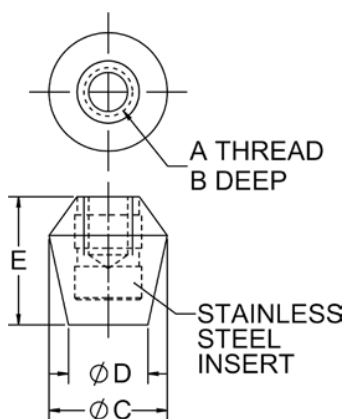
STEEL (INCH)

PART NO.	A THREAD	B	C DIA	D DIA	E
CL-316112-FCQA	#10-32	1-3/8	9/16	.44	.40
CL-14112-FCQA	1/4-20	1-5/8	5/8	.40	.60
CL-14200-FCQA		2-1/8			
CL-518208-FCQA	5/16-18	2-1/4	3/4	.48	.72
CL-516212-FCQA		3			
CL-38212-FCQA	3/8-16	2-9/16	7/8	.56	.84
CL-38314-FCQA		3-9/16			

POLYURETHANE FLAT CUSHIONS



Polyurethane cushions are tougher and slightly harder than standard neoprene cushions. Ideal when greater clamping force is required while still providing scratchfree clamping and some compensation for part-size variation. Molded-in stainless steel insert provides superior thread strength. Ideal for making custom-length Flat Cushion Spindles by inserting a threaded stud. Polyurethane cushion has a hardness 85 Shore A, operating temperature range -90°F to 200°F.



STAINLESS (INCH)

PART NO.	A	B	C DIA	D DIA	E
CL-1032-FCP-PACKOF2	#10-32	.19	.63	.41	.63
CL-1420-FCP	1/4-20	.30			
CL-51618-FCP	5/16-18	.33	.75	.50	.75
CL-3816-FCP	3/8-16	.38	.81	.63	.88

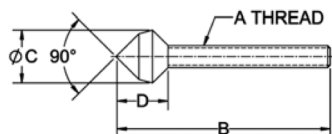
STAINLESS (METRIC)

PART NO.	A	B	C DIA	D DIA	E
CLM-5-FCP-PACKOF2	M5	.19	.63	.47	.63
CLM-6-FCP	M6	.24			
CLM-8-FCP	M8	.30	.75	.50	.75
CLM-10-FCP	M10	.35	.81	.63	.88

CONE-CUSHION SPINDLES



Excellent for clamping into drilled holes, slots, or corners. Molded neoprene tip provides medium clamping force with some compensation for part-size variation. Also provides scratch free clamping. Neoprene cushion has a durometer hardness of 70 shore A, and an operating temperature range of -40°F to 220°F. Spindle is fully threaded for maximum adjustment range. Assembly includes two jam nuts.



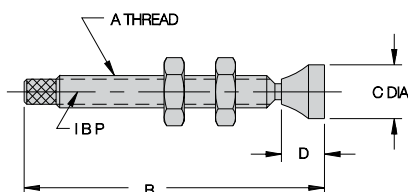
STEEL (INCH)

PART NO.	A THREAD	B	C DIA	D
CL-316112-CC	#10-32	1-3/8	9/16	.40
CL-14112-CC	1/4-20	1-5/8	5/8	.60
CL-14200-CC		2-1/8		
CL-516212-CC	5/16-18	3	3/4	.72
CL-38314-CC	3/8-16	3-9/16	7/8	.84

SWIVEL-FOOT SPINDLES



Swivel foot provides full contact on uneven or sloped surfaces. Assembly includes two jam nuts.



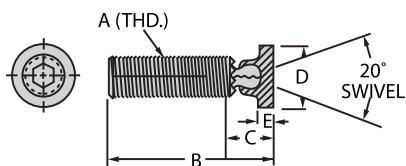
STEEL (INCH)

PART NO.	A	B	C DIA	D
CL-14112-SF	1/4-20	1-3/4	1/2	3/8
CL-14200-SF		2-1/4		
CL-516212-SF	5/16-18	2-3/4	9/16	7/16
CL-38314-SF	3/8-16	3-1/2	5/8	1/2

SWIVEL SCREW CLAMPS



Screw clamp with patented removable, interchangeable swivel foot, available in many sizes and varieties. Add "N" to part no. for Delrin® foot, e.g. CL-23-SSCN. **INFO+**: See page 121 for additional lengths and foot options. Order two jam nuts separately.



STEEL (INCH)

PART NO.	JAM NUT PART NO. (2 REQD)	A	B	C	D DIA	E
CL-23-SSC	CL-4-JN	1/4-20	1-19/32	23/64	3/8	1/8
CL-27-SSC	CL-5-JN	5/16-18	2-3/32	27/64	1/2	5/32
CL-43-SSC	CL-6-JN	3/8-16	3-1/8	5/8	9/16	3/16
CL-44-SSC	CL-8-JN	1/2-13	4-1/16	17/32	3/4	3/16
CL-46-SSC	CL-10-JN	5/8-11	5-3/64	21/32	15/16	7/32

STEEL (METRIC)

CLM-23-SSC	CLM-6-JN	M6	1.67	.36	3/8	1/8
CLM-27-SSC	CLM-8-JN	M8	2.06	.42	1/2	5/32
CLM-32-SSC	CLM-10-JN	M10	3.08	.62	9/16	3/16
CLM-36-SSC	CLM-12-JN	M12	4.00	.53	3/4	3/16
CLM-40-SSC	CLM-16-JN	M16	4.97	.66	15/16	7/32

STAINLESS STEEL (INCH)

CL-23-SSC-S	CL-4-JN-S	1/4-20	1-19/32	23/64	3/8	1/8
CL-27-SSC-S	CL-5-JN-S	5/16-18	2-3/32	27/64	1/2	5/32
CL-43-SSC-S	CL-6-JN-S	3/8-16	3-1/8	5/8	9/16	3/16