SLOTTED LOCATOR BUSHINGS

STEEL: TOOL STEEL, HEAT TREATED RC 58-62, BLACK OXIDE FINISH STAINLESS: 440C STAINLESS STEEL, HEAT TREATED RC 57-69, PASSIVATED

Use with L Pins, T Pins, Shoulder Pins, or Carr Lock* Clamps to align two holes without binding. Precision bushing with a tight tolerance in one direction and full relief in the perpendicular direction. Available for 1/8 through 1" diameter pins (5mm-25mm in metric sizes). To install, first drill and ream hole for roll pin LPIN STANDARD (furnished), then bore large bushing hole for 1003-0003-0005 press fit. Press in bushing and roll pin simultaneously for accurate BUSHING orientation. Patent no. 3,381,554. ALIGNMENT RANGE INCH PART NO. C PIN R DIA м SLOTTED LOCATOR
 DIA
 A

 1/8
 .1251/.1257

 #30
 .1286/.1292

 5/32
 .1563/.1569
DIA N STEEL STAINLESS DIA 04/+.000 BUSHING CL-2-SLLB .250 .312 .7500 .40 CL-3-SLLB-.1285 CL-3-SLLB-.1562 .40 .7500 .312 .7500 .40 CL-3-SLLB-.1502 CL-3-SLLB CL-4-SLLB-.1910 CL-4-SLLB-.1935 CL-4-SLLB-.1960 .40 .40 CL-3-SLLB-S 3/16 1876/1882 .312 .312 .7500 #11 .1911/.1917 .7500 #10 .1936/.1942 .312 .312 .40 .7500 .1961/ 1967 #9 .40 .7500 CL-4-SLLB-.1960 CL-4-SLLB-.2188 CL-4-SLLB CL-4A-SLLB CL-5-SLLB-.2570 7/32 .2189/.2195 .312 .7500 .40 CL-4-SLLB-S 3/16 3/8 1/4 .2501/.2507 .40 .375 1.0000 M DIA X N LONG ROLL PIN .2571/.2577 F .375 .40 1.0000 FURNISHED (LOCATE CL-5-SLLB-.2812 9/32 .437 .437 1.0000 .40 WITHIN ±.002 OF CL-5-SLLB-S 5/16 .3126/.3132 CL-5-SLLB 1.0000 .40 SLOT CENTERLINE .3751/.3757 CL-6-SLLB CL-6-SLLB-S 3/8 .500 CL-8A-SLLB CL-8A-SLLB-S .40 1/2 .5001/.5007 C/2 .625 1.0000 CL-8-SLLB CL-10-SLLB CL-12-SLLB .90 5/8 .6251/.6257 .90 .98 CL-10-SLLB-S .750 1.2500 .7501/.7510 .812 1.5000 1.5000 CL-12-SLLB-S 3/4 1 ŧ. 7/8 .8751/.8760 1.000 .98 CL-14-SLLB ð A CDA 1.5000 CL-16-SLLB 1 1.0001/1.0010 1.062 .98 METRIC BDA - A/2 PIN В DIA Μ t CONCENTRIC DIA A DIA +.010/+.002 L DIA Ν GROUND LEAD L PART NO. Steel Stainless Steel (mm) (mm) (mm) (mm) (mm) (mm) (mm 5 5.003 / 5.028 8 6 6.003 / 6.028 9 CLM-5-SLLB CLM-6-SLLB
 CLM-5-SLLB
 5
 5.003 / 5.028
 8

 CLM-6-SLLB
 CLM-6-SLLB-5
 6
 6.003 / 6.028
 9

 CLM-8-SLLB
 CLM-8-SLLB-5
 8
 8.003 / 8.028
 11

 CLM-10-SLLB
 CLM-10-SLLB-5
 10
 10.003 / 10.028
 13

 CLM-12-SLLB
 CLM-12-SLLB-5
 12
 12.003 / 12.028
 15

 CLM-16-SLLB
 CLM-16-SLLB-5
 16
 16.003 / 16.028
 18
20 9 A DIMENSION CENTERED 24 WITHIN ±.0002 OF C DIA 5 8 14 30 12
 CLM-20-SLLB
 CLM-20-SLLB-S
 20
 20.003 / 20.028
 22

 CLM-25-SLLB
 CLM-25-SLLB-S
 25
 25.003 / 25.028
 27
36 40 19 CARBIDE (INCH) PIN B С м PART NO. DIA DIA DIA DIA L N A CL-4-CSLB 1/4 .2501/.2507 .375 .7500 CL-5-CSLB 5/16 .3126/.3132 .437 .40 3/16 3/8 CL-6-CSLB 3/8 .3751/.3757 .500 1.0000 CL-8A-CSLE 1/2 .5001/.5007 .625

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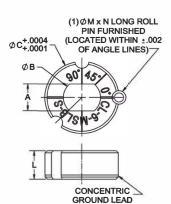
MULTI-ANGLE SLOTTED LOCATOR BUSHINGS

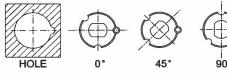
440C STAINLESS STEEL, HEAT TREATED, PASSIVATED



New item!

Slotted Locator Bushings can be used with many types of alignment pins and locating pins to align two holes without binding. The multi-angle version shown here can be installed normally (0°) or at a 90° or 45° angle in the same mounting hole without machining a different pin location. Slotted Locator Bushings have a tight tolerance in one direction and full relief in the perpendicular direction. Available for pin diameters from 1/4 to 1/2", in hardened 440C stainless steel. To install, first drill and ream the small hole for the roll pin, then bore the large bushing hole to provide .0003-.0005" press fit. Press in the bushing and roll pin simultaneously for accurate orientation. Patent no.USD902270S1





INCH				MENSIC			
PART NO.	PIN DIA	A	B DIA	C DIA	L	M DIA	
CL-4-MSLB-S	1/4	.2501 / .2507	.375	.7500			1
CL-5-MSLB-S	5/16	.3126/.3132	.437	1.0000	40	3/16	
CL-6-MSLB-S	3/8	3751 / 3757	500	1 0000	.40	3/10	I

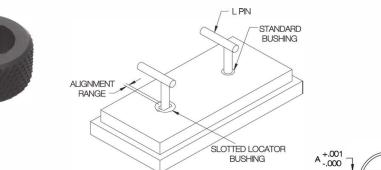
Multi-Angle Slotted Locator Bushings can be installed normally (0°) or at a 90° or 45° angle in the same mounting hole without machining a different pin location.

M Ν 3/16 3/8 CL-8A-MSLB-S 1/2 .5001 / .5007 .625 1.0000

KNURLED SLOTTED LOCATOR BUSHINGS

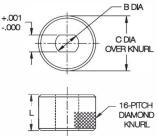
INCH

TOOL STEEL, HEAT TREATED RC 58-62, BLACK OXIDE FINISH



Slotted Locator Bushings with a knurled design for embedding in plastic tooling. Use with L Pins, T Pins, and Shoulder Pins to align two holes without binding. Precision bushing with a tight tolerance in one direction and full relief in the perpendicular direction. Available for 3/16 through 1/2" pin diameters.

PART NO.	PIN DIA	A	B DIA	C DIA	L
CL-30-SLLB	3/16	.188	.312	.565	
CL-40-SLLB	1/4	.250	.375	.640	1
CL-50-SLLB	5/16	.313	.437	.765	1/2
CL-60-SLLB	3/8	.375	.500	.890	1
CL-80-SLLB	1/2	.500	.625	1.015	1



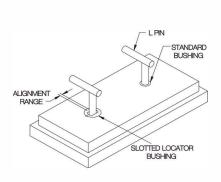
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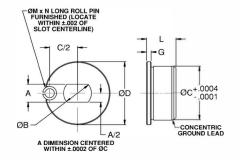
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HEADED SLOTTED LOCATOR BUSHINGS

STEEL: TOOL STEEL, HEAT TREATED RC 58-62, BLACK OXIDE FINISH STAINLESS STEEL: 440C STAINLESS STEEL, HEAT TREATED RC 55-60,PASSIVATED

Slotted Locator Bushings can be used with many types of alignment pins and locating pins to align two holes without binding. Precision bushing with a tight tolerance in one direction and full relief in the perpendicular direction. This headed version provides more resistance to axial loads. The head can be left exposed, or recessed by counterboring the installation hole. Available for pin diameters from 3/16 to 1/2" diameter. Optionally available in hardened 440C stainless steel. Made in USA.





STEEL (INCH)

PART NO.	PIN DIA	А	B DIA	C DIA	D DIA	G	L	M DIA	N
CL-3-HSLB	3/16	.1876/.1882	.312	.7500	075				
CL-4-HSLB	1/4	2501/2507	275	./500	.875				
CL-4A-HSLB	1/4	.2501/.2507	.375			1/16	.40	3/16	
CL-5-HSLB	5/16	.3126/.3132	.437						3/8
CL-6-HSLB	3/8	.3751/.3757	.500	1.0000	1.125				
CL-8-HSLB	1/2	5001/5007	625						
CL-8B-HSLB	1/2	.5001/.5007	.625				.90		

STAINLESS STEEL (INCH)

PART NO.	PIN DIA	А	B DIA	C DIA	D DIA	G	L	M DIA	N
CL-3-HSLB-S	3/16	.1876/.1882	.312	.7500	.875	1/16	.40	3/16	
CL-4-HSLB-S	1/4	2501/2507	.375						
CL-4A-HSLB-S	1/4	.2501/.2507	.375		1.125				
CL-5-HSLB-S	5/16	.3126/.3132	.437						3/8
CL-6-HSLB-S	3/8	.3751/.3757	.500	1.0000					
CL-8-HSLB-S	1/2	.5001/.5007	.625						
CL-8B-HSLB-S	1/2	.50017.5007	.025				.90		

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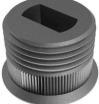
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TED LOCATOR TEMPLATE BUSHINGS SL LOT

BUSHING: 1144 STEEL, HEAT TREAT RETAINER RING: ALUMINUM



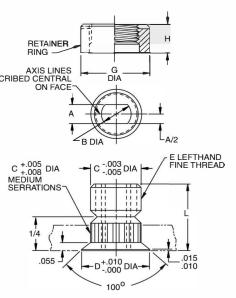
Retainer Ring



Bushing

These Slotted Locator Bushings are designed for thin template jig plates from 3/64" to 3/8" thick. Use with L Pins, T Pins, or Shoulder Pins to align two holes without binding. Precision bushing with a tight tolerance in one direction and full relief in the perpendicular direction. Bushings are held in place by a threaded ON FACE Retainer Ring (order separately). Flush contact of the Retainer Ring against the jig plate ensures perpendicularity. OD serrations prevent the bushing from rotating. Threaded Template Bushings can be easily removed to replace or reuse. Available for pin diameters from 3/16 to 3/4".

To install, drill hole in jig plate to nominal bushing OD (B diameter). Countersink 90° to allow bushing to seat flush to .015" below surface of plate. Install and tighten Retainer Ring to secure. To make Retainer Ring installation easier, we offer a handy Socket-



PART NO.	PIN DIA	А	B DIA	C DIA	D DIA	E	L	RETAINER RING PART NO.	TEMPLATE THICKNESS	G DIA	н	
						5/8-18		TTR-40-6	.047125		3/8	
CL-40-SLTB1875	-40-SLTB1875 3/16	.1876/.1882	3/8	.625	.725	LH	1/2	TTR-40-5	.126188	3/4	5/16	
						LN		TTR-40-3	.189375		3/1	
						5/0.10		TTR-40-6	.047125		3/8	
CL-40-SLTB1935	#10	.1936/.1942	3/8	.625	.725	5/8-18 LH	1/2	TTR-40-5	.126188	3/4	5/1	
						Ln		TTR-40-3	.189375		3/1	
						5/8-18		TTR-40-6	.047125		3/8	
CL-40-SLTB2500	1/4	.2501/.2507	3/8	.625	.725	5/8-18 LH	1/2	TTR-40-5	.126188	3/4	5/1	
						Ln		TTR-40-3	.189375		3/1	
			7/16	.750	.850	3/4-16 LH		TTR-48-6	.047125		3/8	
CL-48-SLTB3125	5/16	.3126/.3132					1/2	TTR-48-5	.126188	1	5/1	
						Ln		TTR-48-3	.189375		3/1	
								TTR-48-6	.047125	1	3/8	
CL-48-SLTB3750	3/8	.3751/.3757	1/2	.750	.850	.850	3/4-16 LH	1/2	TTR-48-5	.126188	1	5/1
						LH		TTR-48-3	.189375	1	3/1	
								TTR-48-6	.047125		3/8	
CL-48-SLTB5000	1/2	.5001/.5007	5/8	.750	.850	.850	3/4-16 LH	1/2	TTR-48-5	.126188	1	5/1
							[[TTR-48-3	.189375	1	3/1	
								TTR-64-6	.047125		3/8	
CL-64-SLTB6250	5/8	.6251/.6257	3/4	1.000	1.100	1″-14	5/8	TTR-64-5	.126188	1-1/4	5/1	
						LH	TTR-64-3 .189375		3/1			
		3/4 .7501/.7510 13				1″-14		TTR-64-6	.047125		3/8	
CL-64-SLTB7500	3/4		13/16	1.000	1.100	LH	5/8	TTR-64-5	.126188	1-1/4	5/1	
							L (TTR-64-3	.189375	1	3/1	

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Type Installation Tool that fits 1/4" square drives.