

QB TYPE

M-2 HIGH SPEED STEEL PERFORATORS / CORE PIN BLANKS

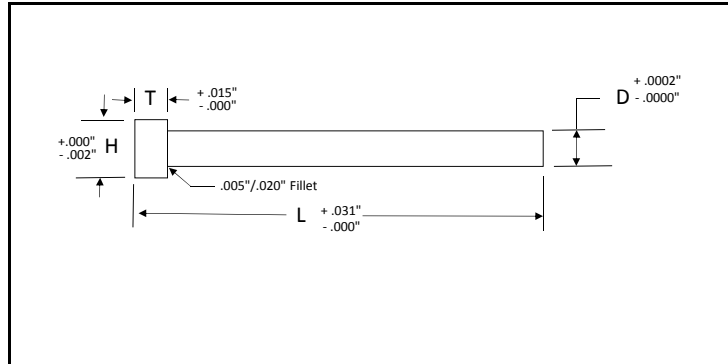
PRECISION FORM GROUND

Rc 60-63

.001" INCREMENTS

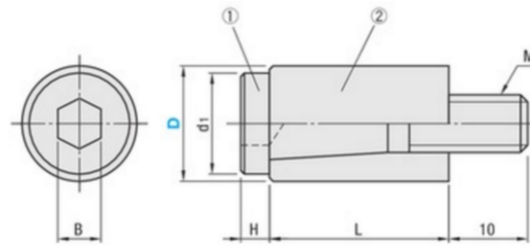
INCLUDING THE POPULAR FRACTIONS - 1/32", 3/64", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", AND 3/8"

HOW TO ORDER				
Specify:	Qty.	Type	Dia.	X Length
Examples	25	QB	.125	X 2-1/2
	50	QB	.016	X 2



D DIAMETER .001" INCREMENTS	H Head Dia.	T Head Thick.	NET PRICE EACH PER QUANTITY									
			L - LENGTH									
			2"					2-1/2"				
			50 - 99	25 - 49	12 - 24	5 - 11	1 - 4	50 - 99	25 - 49	12 - 24	5 - 11	1 - 4
.010 - .014	1/32	1/16	\$ 3.63	\$ 3.78	\$ 3.96	\$ 4.95	\$ 2.90	-	-	-	-	-
.015 - .019	1/32	1/16	\$ 3.03	\$ 3.16	\$ 3.30	\$ 4.13	\$ 2.42	-	-	-	-	-
.020 - .029	3/64	1/16	\$ 2.43	\$ 2.53	\$ 2.65	\$ 3.31	\$ 1.94	-	-	-	-	-
.030 - .036	1/16	1/16	-	-	-	-	-	\$ 1.94	\$ 2.02	\$ 2.11	\$ 2.65	\$ 3.14
.037 - .046	5/64	1/16	-	-	-	-	-					
.047 - .055	3/32	3/32	-	-	-	-	-					
.056 - .064	7/64	3/32	-	-	-	-	-					
.065 - .078	1/8	3/32	-	-	-	-	-	\$ 2.08	\$ 2.18	\$ 2.26	\$ 2.83	\$ 3.39
.079 - .087	9/64	3/32	-	-	-	-	-	\$ 2.29	\$ 2.42	\$ 2.52	\$ 3.14	\$ 3.77
.088 - .099	5/32	3/32	-	-	-	-	-					
.100 - .120	11/64	3/32	-	-	-	-	-					
.121 - .131	3/16	1/8	-	-	-	-	-					
.132 - .147	13/64	1/8	-	-	-	-	-	\$ 2.43	\$ 2.53	\$ 2.65	\$ 3.31	\$ 3.97
.148 - .163	7/32	1/8	-	-	-	-	-					
.164 - .179	15/64	1/8	-	-	-	-	-					
.180 - .194	1/4	1/8	-	-	-	-	-					
.195 - .210	17/64	1/8	-	-	-	-	-	\$ 2.80	\$ 2.92	\$ 3.04	\$ 3.81	\$ 4.56
.211 - .225	9/32	1/8	-	-	-	-	-	\$ 3.22	\$ 3.36	\$ 3.51	\$ 4.38	\$ 5.25
.226 - .241	19/64	1/8	-	-	-	-	-					
.242 - .256	5/16	3/16	-	-	-	-	-					
.257 - .272	21/64	3/16	-	-	-	-	-					
.273 - .288	11/32	3/16	-	-	-	-	-	\$ 3.61	\$ 3.76	\$ 3.92	\$ 4.90	\$ 5.87
.289 - .304	23/64	3/16	-	-	-	-	-					
.305 - .320	3/8	3/16	-	-	-	-	-					
.321 - .336	25/64	3/16	-	-	-	-	-					
.337 - .352	13/32	3/16	-	-	-	-	-	\$ 3.91	\$ 4.08	\$ 4.25	\$ 5.31	\$ 6.37
.353 - .368	27/64	3/16	-	-	-	-	-					
.369 - .380	7/16	3/16	-	-	-	-	-					
.381 - .396	29/64	3/16	-	-	-	-	-					
.397 - .411	15/32	3/16	-	-	-	-	-	\$ 4.56	\$ 4.76	\$ 4.97	\$ 6.22	\$ 7.45
.412 - .427	31/64	3/16	-	-	-	-	-					
.428 - .443	1/2	3/16	-	-	-	-	-					
.444 - .458	33/64	3/16	-	-	-	-	-					
.459 - .474	17/32	3/16	-	-	-	-	-	\$ 5.17	\$ 5.39	\$ 5.64	\$ 7.04	\$ 8.45
.475 - .489	35/64	3/16	-	-	-	-	-					
.490 - .505	9/16	3/16	-	-	-	-	-					
DIAMETERS IN .0001" INCREMENTS MADE TO ORDER			\$30.00 ADD THE FOLLOWING SET UP CHARGE TO BASE PICE									
OPTIONAL T= 3/16" MADE TO ORDER			\$20.00 ADD THE FOLLOWING SET UP CHARGE TO BASE PICE									

Friction Pullers :



•Dimension Table

d1	M	B	L	H	Part Number	
					Type	D
8.5	5	4	18	3	PL (Set (1)+(2))	10
11.5	6	5	20	3.2		13
14	8	6	25	4		16
18	10	6	30	4		20

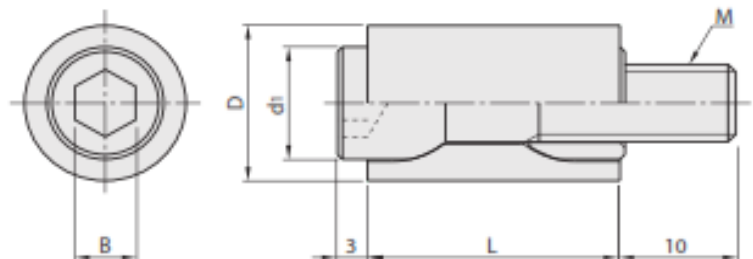
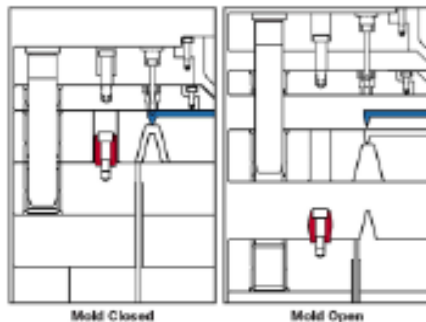
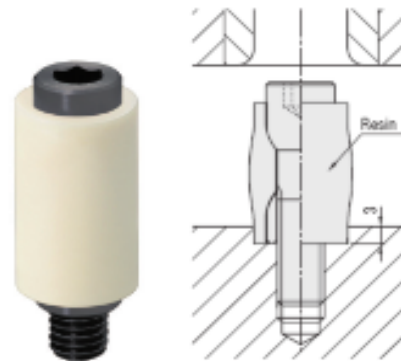
Available sizes include: 10mm, 13mm, 16mm, and 20mm.

Features:

- Resin Type: Heat-Stabilized, Lubricated Nylon 6
- Bolt Material: SCM435
- Ring Material: S45C
- Maximum Operating Temperature: 250°F (120°C)

Benefits:

- Provides smooth plate sequence control
- Systematically draws floating plates & inserts apart



Part Number	D (mm)	L (mm)	B (mm)	M	d1 (mm)	Maximum Force (each)
FP-10P	10	17	4	M5-.8	7.6	32.5 kg (70 lbs.)
FP-13P	13	20	5	M6-1	9.6	62.5 kg (135 lbs.)
FP-16P	16	25	6	M8-1.25	11.6	150.0 kg (330 lbs.)
FP-20P	20	30	6	M10-1.5	14.6	212.5 kg (470 lbs.)

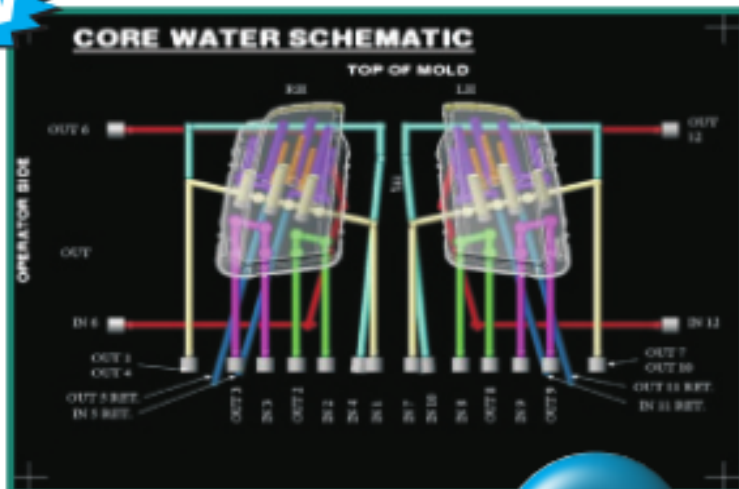
Full Colour Mold Plaques

Tooling Identification

NEW

**SAVE ENGINEERING
TIME AND MONEY!**

**INDUSTRY PROVEN
THERMAL SET
GRAPHICS**



Simplified Data Transfers JPEG.

- 300 DPI files (options available)
- Dimension the part and email
- Design any colour combinations
- NOTE: Technical support available

**ICS Laser
Technologies**



NOVA tool & mold inc.	
CUSTOMER: SAMPLE ID, PLAQUE OWNER	
PART NAME: CREATE YOUR OWN CUSTOM DESIGN	
PART NO.	MO. CXL 1
NOVA JOB NO.	2008
MOLD WEIGHT	1.00 LBS
	1.400 1.400 1.410
MANUFACTURED BY: JRM 2008	
EL PASO, TEXAS 79901	

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**STANDARD I.D.
MOLD PLAQUES**



**SERVICE
IDENTIFICATION**



ASSET TAGS

ICS Laser technologies Mold Steel, U.S.A. 48225 Phone (957) 913-1294 Fax (957) 913-0956 JOB # 777	CUSTOMER P.C. # 105622009	Made in U.S.A.
	OPERATION DESCRIPTION FULL COLOUR SAMPLE DIE TAG	
	CUSTOMER NAME ICS LASER TECHNOLOGIES	
	P.C. NAME 12 TAG	
	SHUT HEIGHT 1/2"	
WEIGHT OF UPPER DIE HALF 1.00 LBS. TOTAL HEIGHT 2.25 LBS. STOCK THICKNESS 1/2" (201)		
DIE SIZE 12" X 3/4" DIE WIDTH AND PROGRESSION 1/2" wide X 3/4" deep		

DIE TAGS

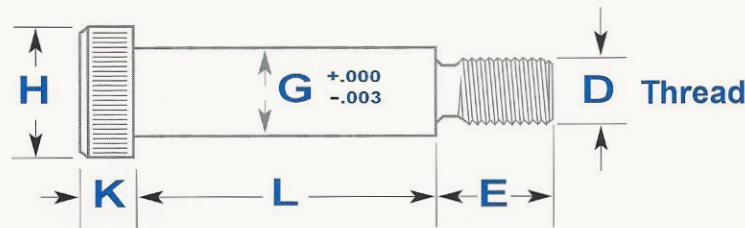
- ✓ Cost competitive
- ✓ Protective coated
- ✓ Quick turnaround

• **HIGH CUSTOMER APPROVAL RATING** •

Shoulder Screw

EL PASO
MOLD SUPPLY

- 1" to 7" lengths
- Made from high-grade alloy steel
- 1/4" to 3/4" diameters
- Heat treated to 36 R/C minimum for greater strength



Shoulder Diameter G	Thread D	Thread Length E	Head Diameter H	Head Height K	Hex Hole Across Flats
1/4	#10-24	3/8	3/8 ^{+0.000} _{-.018}	3/16 ^{+0.000} _{-.006}	1/8
5/16	1/4-20	7/16	7/16 ^{+0.000} _{-.019}	7/32 ^{+0.000} _{-.006}	5/32
3/8	5/16-18	1/2	9/16 ^{+0.000} _{-.019}	1/4 ^{+0.000} _{-.006}	1/8
1/2	3/8	5/8	3/4 ^{+0.000} _{-.021}	5/16 ^{+0.000} _{-.006}	1/4
5/8	1/2-13	3/4	7/8 ^{+0.000} _{-.022}	3/8 ^{+0.000} _{-.007}	5/16
3/4	5/8-11	7/8	1 ^{+0.000} _{-.023}	1/2 ^{+0.000} _{-.008}	3/8

Dia. G	Shoulder Length L	Catalog Number
1/4	1	SB25100
	1-1/4	SB25125
	1-1/2	SB25150
5/16	1	SB31100
	1-1/4	SB31125
	1-1/2	SB31150
	1-3/4	SB31175
	2	SB31200
3/8	1	SB38100
	1-1/4	SB38125
	1-1/2	SB38150
	1-3/4	SB38175
	2	SB38200
	2-1/4	SB38225
	2-1/2	SB38250
	2-3/4	SB38275
	3	SB38300
	3-1/4	SB38325
	3-1/2	SB38350
	3-3/4	SB38375
1/2	4	SB38400
	1	SB50100
	1-1/4	SB50125
	1-1/2	SB50150

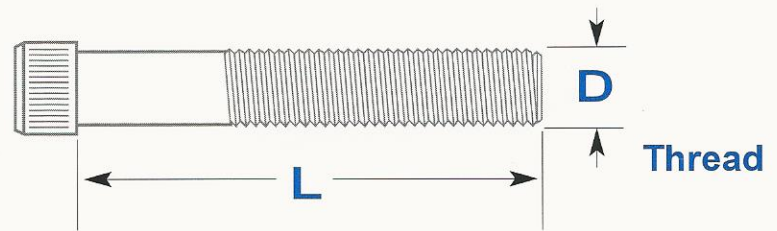
Dia. G	Shoulder Length L	Catalog Number
1/2	1-3/4	SB50175
	2	SB50200
	2-1/4	SB50225
	2-1/2	SB50250
	2-3/4	SB50275
	3	SB50300
	3-1/4	SB50325
	3-1/2	SB50350
	3-3/4	SB50375
	4	SB50400
	4-1/4	SB50425
	4-1/2	SB50450
	4-3/4	SB50475
	5	SB50500
5/8	1-1/4	SB63125
	1-1/2	SB63150
	1-3/4	SB63175
	2	SB63200
	2-1/4	SB63225
	2-1/2	SB63250
	2-3/4	SB63275
	3	SB63300
	3-1/4	SB63325
	3-1/2	SB63350
	3-3/4	SB63375

Dia. G	Shoulder Length L	Catalog Number
5/8	4	SB63400
	4-1/4	SB63425
	4-1/2	SB63450
	4-3/4	SB63475
	5	SB63500
	5-1/2	SB63550
3/4	6	SB63600
	1-1/2	SB75150
	1-3/4	SB75175
	2	SB75200
	2-1/4	SB75225
	2-1/2	SB75250
	2-3/4	SB75275
	3	SB75300
	3-1/4	SB75325
	3-1/2	SB75350
	3-3/4	SB75375
	4	SB75400
	4-1/4	SB75425
	4-1/2	SB75450
	4-3/4	SB75475
	5	SB75500
	5-1/2	SB75550
	6	SB75600
	7	SB75700

Screw Socket head

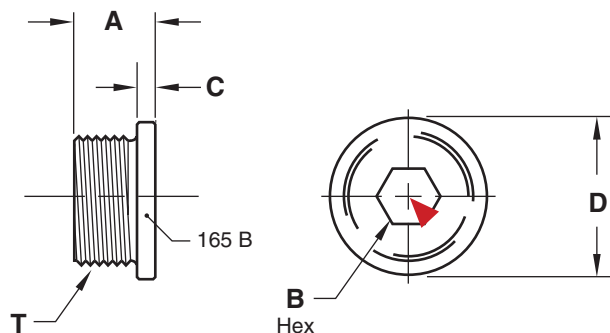
EL PASO
MOLD SUPPLY

- High grade alloy steel
- Heat treated to 38-45 R/C
- Tensile strength of 180,000 psi minimum



Dia. D	Length Under Head L	Catalog Number	Dia. D	Length Under Head L	Catalog Number	Dia. D	Length Under Head L	Catalog Number	Dia. D	Length Under Head L	Catalog Number
#6-32	1/4	SH63225	1/4-20	2-3/4	SH2520275	1/2-13	5/8	SH501363	5/8-11	4-1/2	SH6311450
	3/8	SH63238		3	SH2520300		3/4	SH501375		5	SH6311500
	1/2	SH63250	5/16-18	3/8	SH311838		7/8	SH501388		5-1/2	SH6311550
	5/8	SH63263		1/2	SH311850		1	SH5013100		6	SH6311600
	3/4	SH63275		5/8	SH311863		1-1/4	SH5013125		6-1/2	SH6311650
	7/8	SH63288		3/4	SH311875		1-1/2	SH5013150		7	SH6311700
	1	SH632100		7/8	SH311888		1-3/4	SH5013175		7-1/2	SH6311750
#8-32	1/4	SH832025		1	SH3118100		2	SH5013200		8	SH6311800
	3/8	SH832038		1-1/4	SH3118125		2-1/4	SH5013225		10	SH63111000
	1/2	SH832050		1-1/2	SH3118150		2-1/2	SH5013250		12	SH63111200
	5/8	SH832063		1-3/4	SH3118175		2-3/4	SH5013275	3/4-10	2	SH7510200
	3/4	SH832075		2	SH3118200		3	SH5013300		2-1/4	SH7510225
	7/8	SH832088		2-1/4	SH3118225		3-1/4	SH5013325		2-1/2	SH7510250
	1	SH832100		2-1/2	SH3118250		3-1/2	SH5013350		2-3/4	SH7510275
	1-1/4	SH832125		2-3/4	SH3118275		4	SH5013400		3	SH7510300
	1-1/2	SH832150		3	SH3118300		4-1/2	SH5013450		3-1/4	SH7510325
#10-24	3/8	SH102438		3-1/4	SH3118325		5	SH5013500		3-1/2	SH7510350
	1/2	SH102450		3-1/2	SH3118350		5-1/2	SH5013550		4	SH7510400
	5/8	SH102463	3/8-16	1/2	SH381650		5-3/4	SH5013575		4-1/2	SH7510450
	3/4	SH102475		5/8	SH381663		6	SH5013600		5	SH7510500
	7/8	SH102488		3/4	SH381675		6-1/2	SH5013650		5-1/2	SH7510550
	1	SH1024100		7/8	SH381688		7	SH5013700		6	SH7510600
	1-1/4	SH1024125		1	SH3816100		8	SH5013800		6-1/2	SH7510650
	1-1/2	SH1024150		1-1/4	SH3816125		9	SH5013900		7	SH7510700
	1-3/4	SH1024175		1-1/2	SH3816150		10	SH50131000		8	SH7510800
	2	SH1024200		1-3/4	SH3816175		12	SH50131200		10	SH75101000
1/4-20	3/8	SH252038		2	SH3816200	5/8-11	1	SH6311100		12	SH75101200
	1/2	SH252050		2-1/4	SH3816225		1-1/4	SH6311125	1-8	2	SH1008200
	5/8	SH252063		2-1/2	SH3816250		1-1/2	SH6311150		2-1/2	SH1008250
	3/4	SH252075		2-3/4	SH3816275		1-3/4	SH6311175		3	SH1008300
	7/8	SH252088		3	SH3816300		2	SH6311200		3-1/2	SH1008350
	1	SH2520100		3-1/4	SH3816325		2-1/4	SH6311225		4	SH1008400
	1-1/4	SH2520125		3-1/2	SH3816350		2-1/2	SH6311250		5	SH1008500
	1-1/2	SH2520150		4	SH3816400		2-3/4	SH6311275		5-1/2	SH1008550
	1-3/4	SH2520175		4-1/2	SH3816450		3	SH6311300		6	SH1008600
	2	SH2520200		5	SH3816500		3-1/4	SH6311325		6-1/2	SH1008650
	2-1/4	SH2520225		6	SH3816600		3-1/2	SH6311350		7	SH1008700
	2-1/2	SH2520250	1/2-13	1/2	SH501350		4	SH6311400		8	SH1008800

CORE PIN RETAINERS



Inch Standard

M AISI 12L14 **H** 165 Brinell **S** Black Oxide

CAD insertion point

CATALOG NUMBER	A +.002 -.000	C +.000 -.002	D O.D.	B Hex	T Thread
CPR-50	.437	.125	.750	.25	1/2-20
CPR-87	.437	.125	1.060	.37	7/8-14

Metric Standard

M AISI 12L14 **H** 165 Brinell **S** Black Oxide

CATALOG NUMBER	A +.00 -.05	C +.00 -.05	D O.D.	B Hex	T Thread
CPRM-16	11	4	20	8	M16-1.5

CPR-50

Core Pin Diameter	H
3/32ø - 9/64ø	.563
5/32ø	.594
11/64ø - 1/4ø	.625
9/32ø	.688

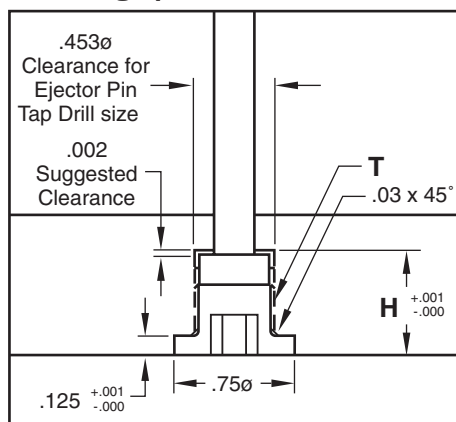
CPR-87

Core Pin Diameter	H
5/16ø - 1/2ø	.688

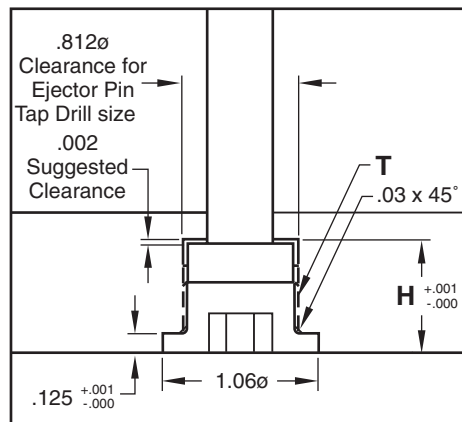
CPRM-16

Core Pin Diameter	H
2 - 2.5mm	13 mm
3 - 6mm	14 mm

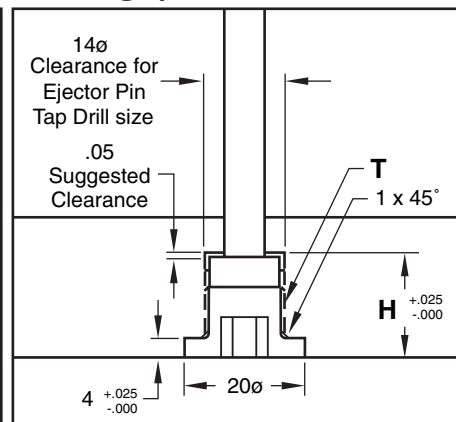
Machining Specifications: CPR-50

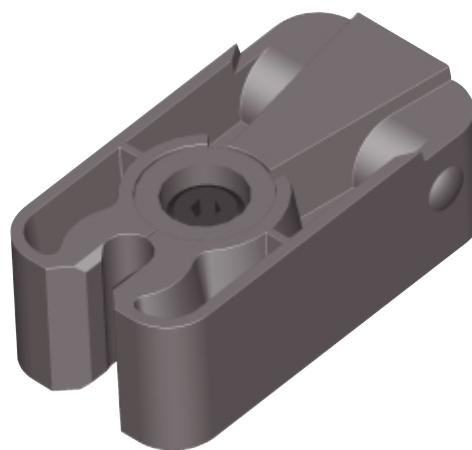
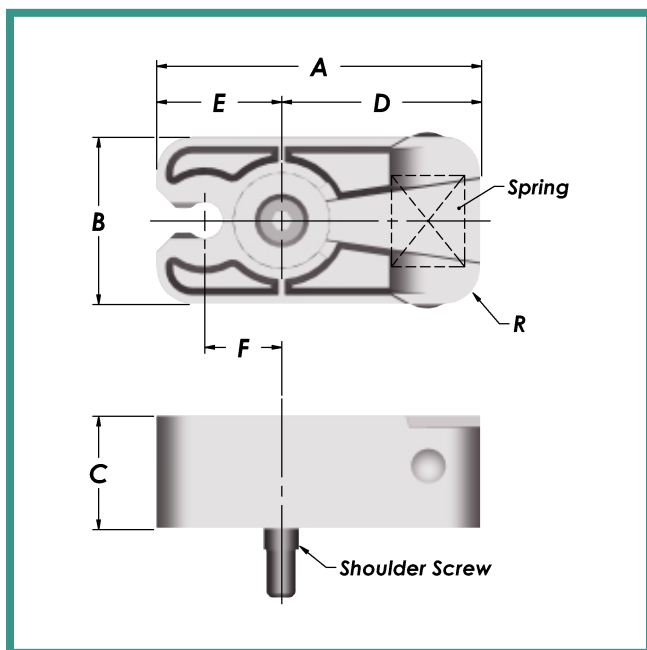


Machining Specifications: CPR-87

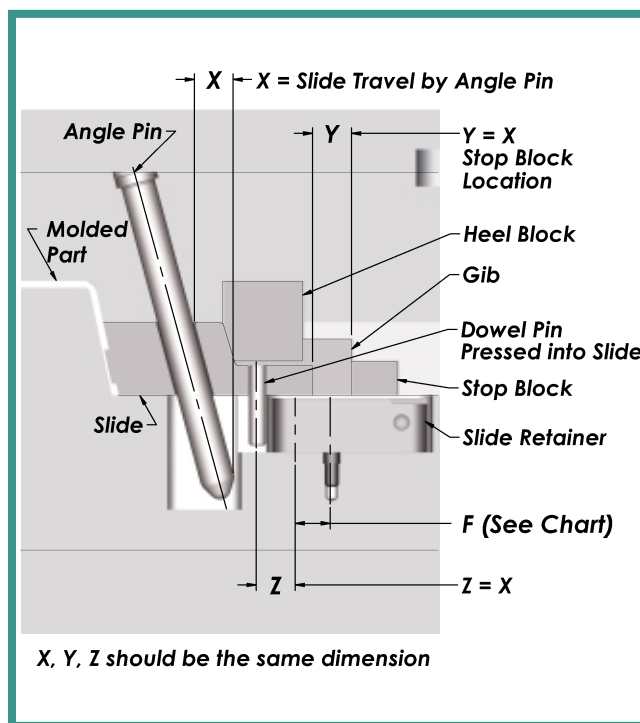
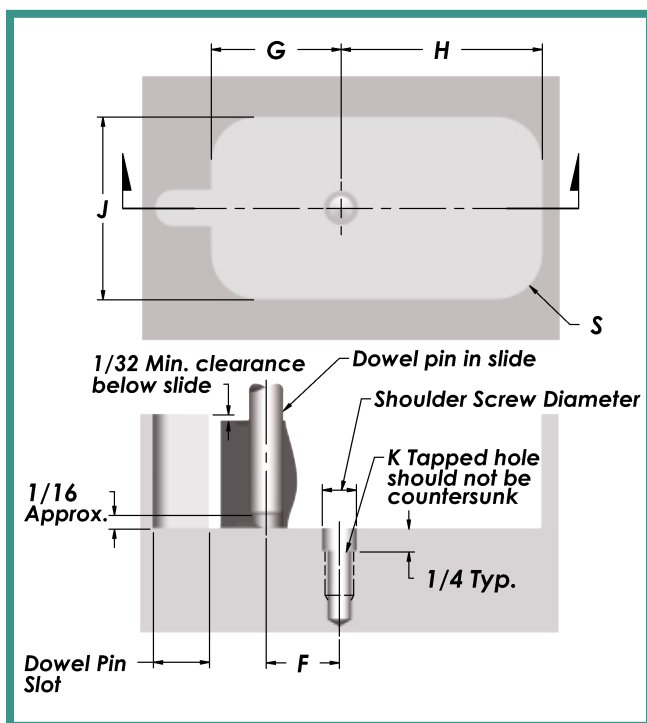


Machining Specifications: CPRM-16





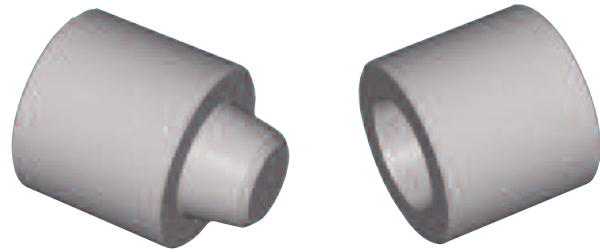
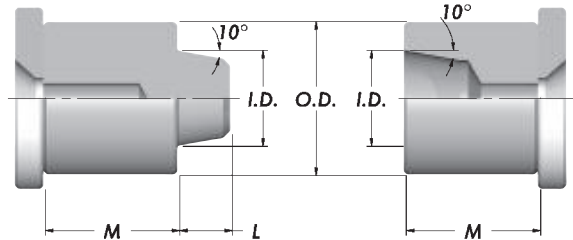
- A compact method of slide retention that eliminates the use of springs or costly hydraulic systems.
- Interference with machine tie bars or safety gates is eliminated because the slide retainer can be installed behind or below the slide.
- They can be used in multiples for larger or heavier slides.



Catalog Number	A	B	C	D	E	F	R	Dowel Pin	Maximum Slide Weight	G	H	J	Tapped Hole K	Shoulder Screw	S
SRP-22	1-1/2	3/4	.63	.89	.61	.360	.19	1/4 X 1-1/4	22 Pounds	.73	1.01	1.00	10-24 X 1/2	1/4 X 5/8	.31
SRP-44	2-1/8	1-1/4	.79	1.31	.81	.500	.25	5/16 X 1-1/2	44 Pounds	.93	1.43	1.50	1/4-20 X 1/2	5/16 X 3/4	.37
SRP-88	3-3/8	1-3/4	1.18	2.08	1.30	.800	.38	3/8 X 2-1/4	88 Pounds	1.42	2.20	2.20	5/16-18 X 5/8	3/8 X 1"	.50

Tapered Interlocks

EL PASO
MOLD SUPPLY

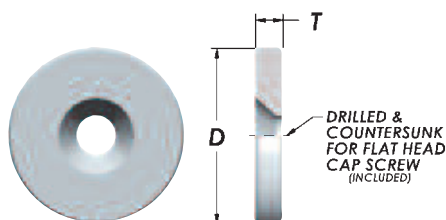


- DMS round tapered interlocks provide positive alignment of cavities and cores.
- Extra grind stock is provided at the back of both male and female for positive fitting.

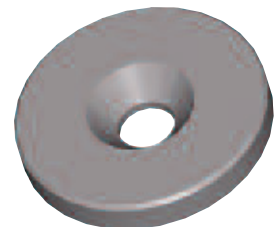
FEMALE					
O.D. +.0000 -.0005	I.D.	TAP SIZE	M +.010 +.015	Catalog Number	
1/2	5/16	10-24	11/16	FTL050-11	
			7/8	FTL050-14	
			1-3/16	FTL050-19	
			1-3/8	FTL050-22	
3/4	1/2	1/4-20	11/16	FTL075-11	
			7/8	FTL075-14	
			1-3/16	FTL075-19	
			1-3/8	FTL075-22	
1"	5/8	1/4-20	11/16	FTL100-11	
			7/8	FTL100-14	
			1-3/16	FTL100-19	
			1-3/8	FTL100-22	
1-1/2	1"	5/16-18	1-1/8	FTL150-18	
			1-3/8	FTL150-22	
			1-5/8	FTL150-26	
			1-1/8	FTL200-18	
2"	1-1/2	5/16-18	1-3/8	FTL200-22	
			1-5/8	FTL200-26	

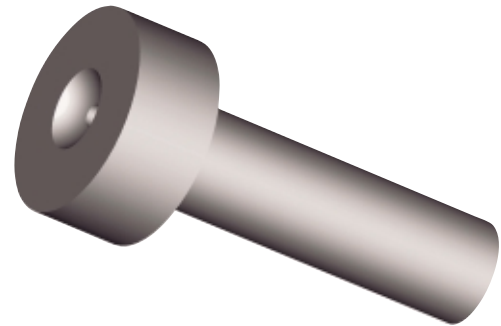
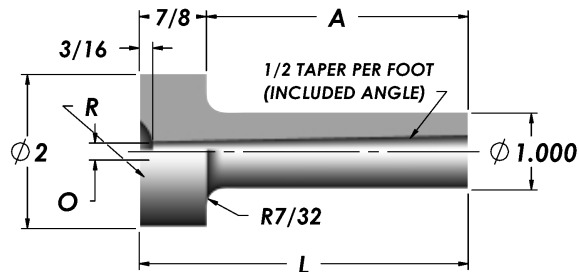
MALE					
O.D. +.0000 -.0005	I.D.	L	TAP SIZE	M +.010 +.015	Catalog Number
1/2	5/16	1/4	10-24	11/16	MTL050-11
				7/8	MTL050-14
				1-3/16	MTL050-19
				1-3/8	MTL050-22
3/4	1/2	9/32	1/4-20	11/16	MTL075-11
				7/8	MTL075-14
				1-3/16	MTL075-19
				1-3/8	MTL075-22
1"	5/8	11/32	1/4-20	11/16	MTL100-11
				7/8	MTL100-14
				1-3/16	MTL100-19
				1-3/8	MTL100-22
1-1/2	1"	1/2	5/16-18	1-1/8	MTL150-18
				1-3/8	MTL150-22
				1-5/8	MTL150-26
				1-1/8	MTL200-18
2"	1-1/2	1/2	5/16-18	1-3/8	MTL200-22
				1-5/8	MTL200-26

Spacer Plates



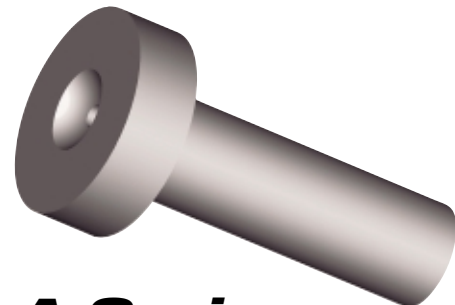
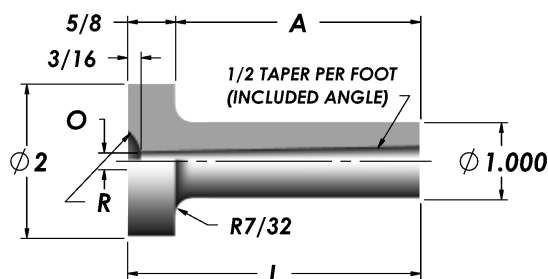
O.D.	D	T	Screw Size	Catalog Number
1/2	11/16	3/16	10-24	SP050
3/4	1"	3/16	1/4-20	SP075
1"	1-3/16	3/16	1/4-20	SP100
1-1/2	1-11/16	1/4	5/16-18	SP150
2"	2-3/16	1/4	5/16-18	SP200





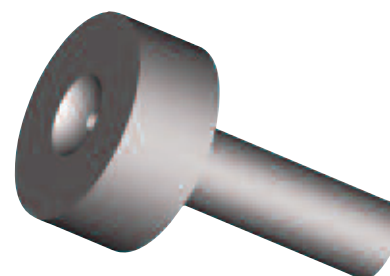
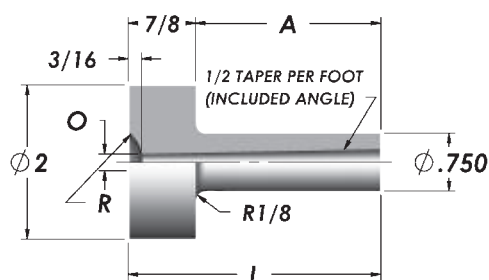
B-Series

A	L	O=5/32		O=7/32		O=9/32		O=11/32	
		R=1/2	R=3/4	R=1/2	R=3/4	R=1/2	R=3/4	R=1/2	R=3/4
29/32	1-25/32	B129512	B129534	B129712	B129734	B129912	B129934	B129112	B129134
1-13/32	2-9/32	B221512	B221534	B221712	B221734	B221912	B221934	B221112	B221134
1-29/32	2-25/32	B229512	B229534	B229712	B229734	B229912	B229934	B229112	B229134
2-13/32	3-9/32	B321512	B321534	B321712	B321734	B321912	B321934	B321112	B321134
2-29/32	3-25/32	B329512	B329534	B329712	B329734	B329912	B329934	B329112	B329134
3-13/32	4-9/32	B421512	B421534	B421712	B421734	B421912	B421934	B421112	B421134
3-29/32	4-25/32	B429512	B429534	B429712	B429734	B429912	B429934	B429112	B429134
4-13/32	5-9/32	B521512	B521534	B521712	B521734	B521912	B521934	B521112	B521134
4-29/32	5-25/32	B529512	B529534	B529712	B529734	B529912	B529934	B529112	B529134
5-29/32	6-25/32			B629712	B629734	B629912	B629934	B629112	B629134
6-29/32	7-25/32			B729712	B729734	B729912	B729934	B729112	B729134



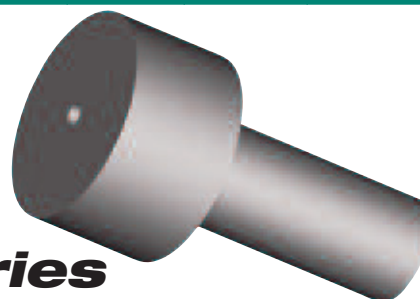
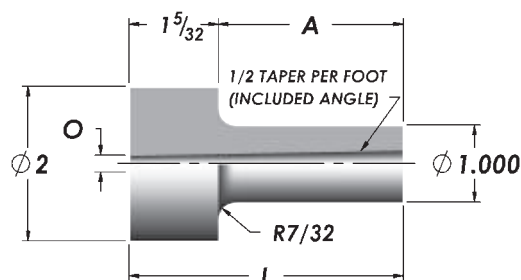
A-Series

A	L	O=5/32		O=7/32		O=9/32		O=11/32	
		R=1/2	R=3/4	R=1/2	R=3/4	R=1/2	R=3/4	R=1/2	R=3/4
1-3/16	1-13/16	A129512	A129534	A129712	A129734	A129912	A129934	A129112	A129134
1-11/16	2-5/16	A221512	A221534	A221712	A221734	A221912	A221934	A221112	A221134
2-3/16	2-13/16	A229512	A229534	A229712	A229734	A229912	A229934	A229112	A229134
2-11/16	3-5/16	A321512	A321534	A321712	A321734	A321912	A321934	A321112	A321134
3-3/16	3-13/16	A329512	A329534	A329712	A329734	A329912	A329934	A329112	A329134
3-11/16	4-5/16	A421512	A421534	A421712	A421734	A421912	A421934	A421112	A421134
4-3/16	4-13/16	A429512	A429534	A429712	A429734	A429912	A429934	A429112	A429134



U-Series

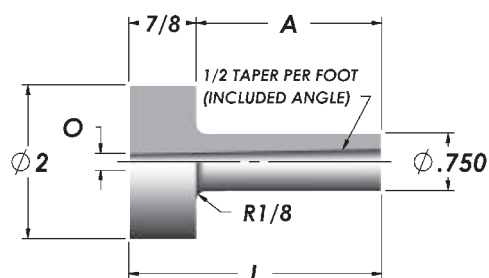
A	L	O=5/32		O=7/32		O=9/32	
		R=1/2	R=3/4	R=1/2	R=3/4	R=1/2	R=3/4
29/32	1-25/32	U157512	U157534	U157712	U157734	U157912	U157934
1-13/32	2-9/32	U241512	U241534	U241712	U241734	U241912	U241934
1-29/32	2-25/32	U257512	U257534	U257712	U257734	U257912	U257934
2-13/32	3-9/32	U341512	U341534	U341712	U341734	U341912	U341934
2-29/32	3-25/32	U357512	U357534	U357712	U357734	U357912	U357934



* LN-Series

* NOTE: Discontinued. Available while supplies last. May be available as a per order item after depleted.

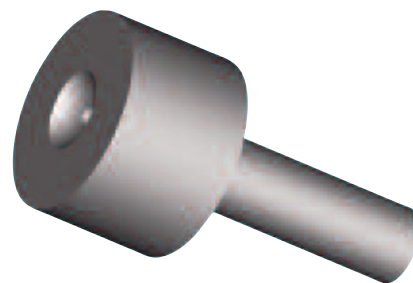
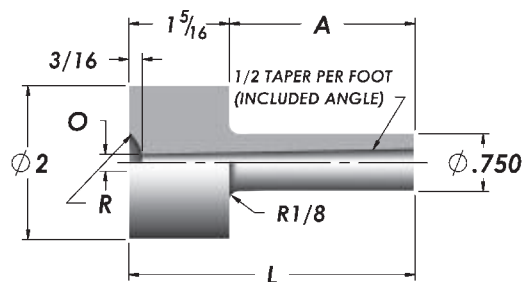
A	L	O=5/32	O=7/32	O=9/32
29/32	2-1/16	LN217532	LN217732	LN217932
1-13/32	2-9/16	LN225532	LN225732	LN225932
1-29/32	3-1/16	LN317532	LN317732	LN317932
2-13/32	3-9/16	LN325532	LN325732	LN325932
2-29/32	4-1/16	LN417532	LN417732	LN417932
3-13/32	4-9/16	LN425532	LN425732	LN425932



* UR-Series

* NOTE: Discontinued. Available while supplies last. May be available as a per order item after depleted.

A	L	O=5/32	O=7/32	O=9/32
29/32	1-25/32	UR157532	UR157732	UR157932
1-13/32	2-9/32	UR241532	UR241732	UR241932
1-29/32	2-25/32	UR257532	UR257732	UR257932
2-13/32	3-9/32	UR341532	UR341732	UR341932
2-29/32	3-25/32	UR357532	UR357732	UR357932

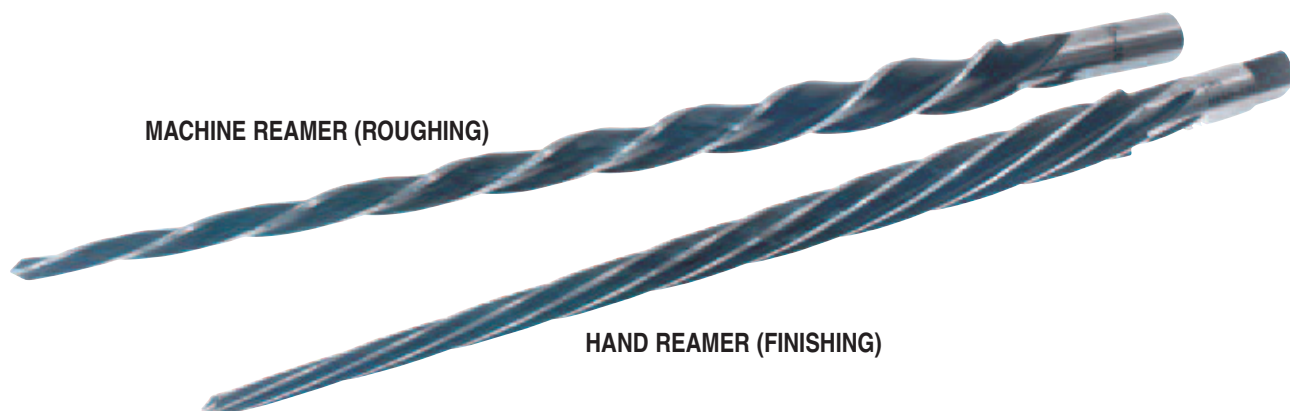


* UV-Series

* NOTE: Discontinued. Available while supplies last. May be available as a per order item after depleted.

A	L	O=5/32 R=1/2	O=7/32 R=1/2	O=9/32 R=1/2
		UV239512	UV239712	UV239912
29/32	2-7/32	UV255512	UV255712	UV255912
1-13/32	2-23/32	UV339512	UV339712	UV339912
1-29/32	3-7/32	UV355512	UV355712	UV355912
2-13/32	3-23/32	UV439512	UV439712	UV439912
2-29/32	4-7/32			

Sprue Reamers



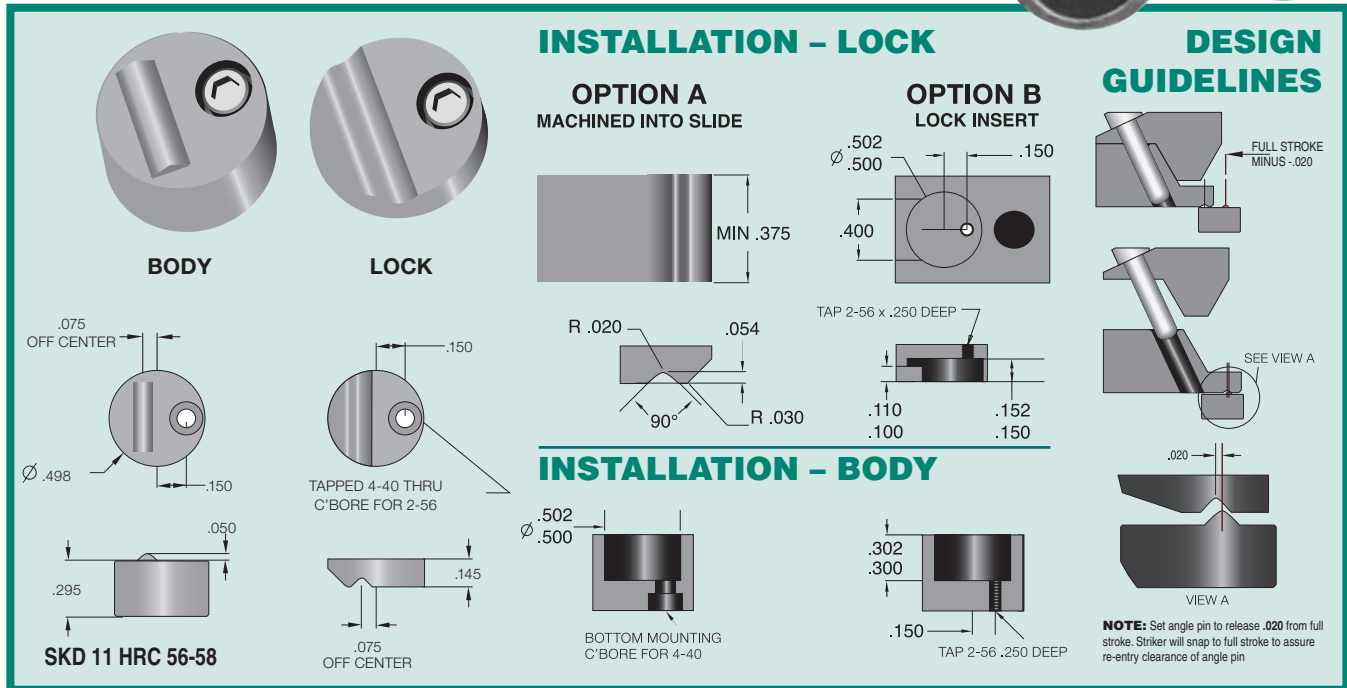
HAND REAMERS						
Catalog Number	Flutes	Taper per foot	Diameter Small End	Diameter Large End	Shank Diameter	Flute Length
HR-50-06S	4	1/2	7/64	3/8	5/16	6"
HR-50-10L	6	1/2	13/64	5/8	1/2	10-1/2

MACHINE REAMERS						
Catalog Number	Flutes	Taper per foot	Diameter Small End	Diameter Large End	Shank Diameter	Flute Length
MR-50-06S	3	1/2	7/64	3/8	5/16	6"
MR-50-10L	3	1/2	13/64	5/8	1/2	10-1/2

HIGH HARDNESS

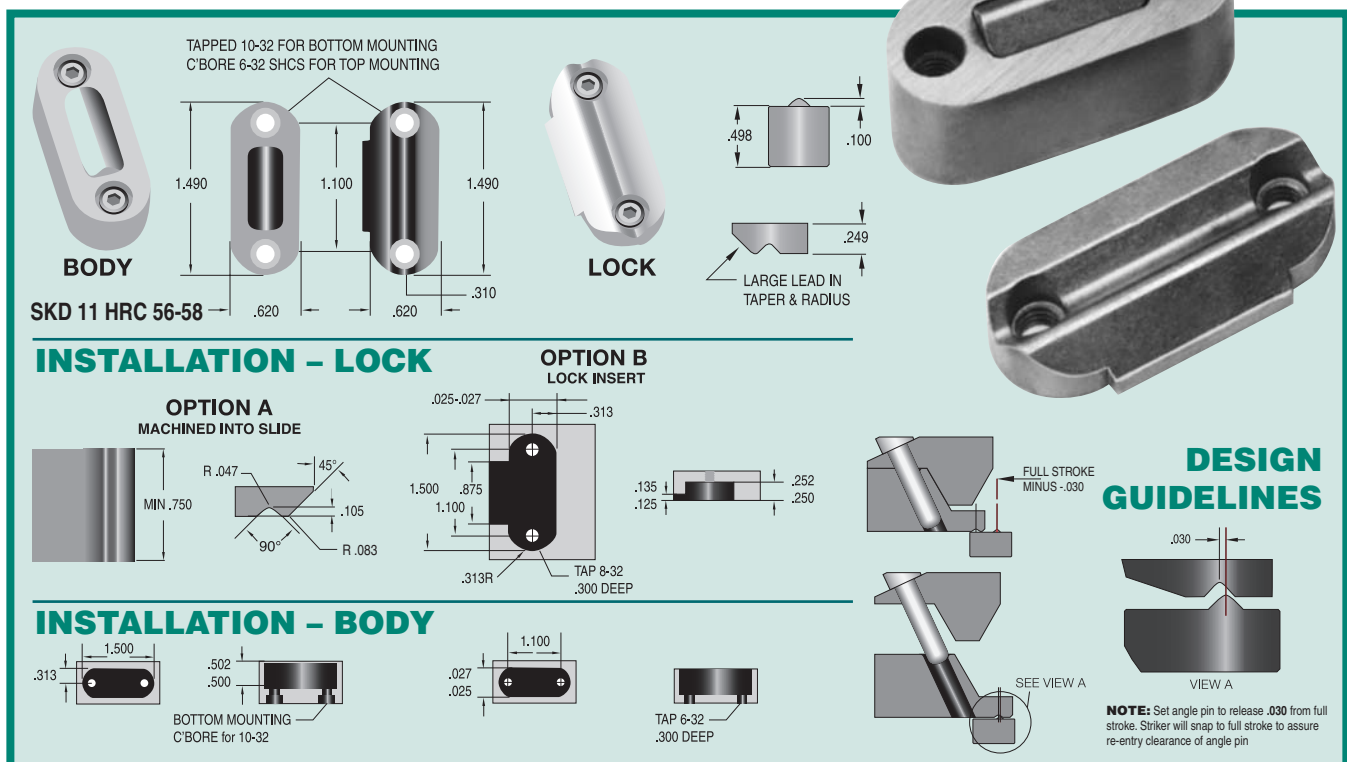
SLK-8-HH

Rated to carry a weight up to 8 pounds. 100% interchangeable with SLK-8A



SLK-25-HH

Rated to carry a weight up to 25 pounds. 100% interchangeable with SLK-25A

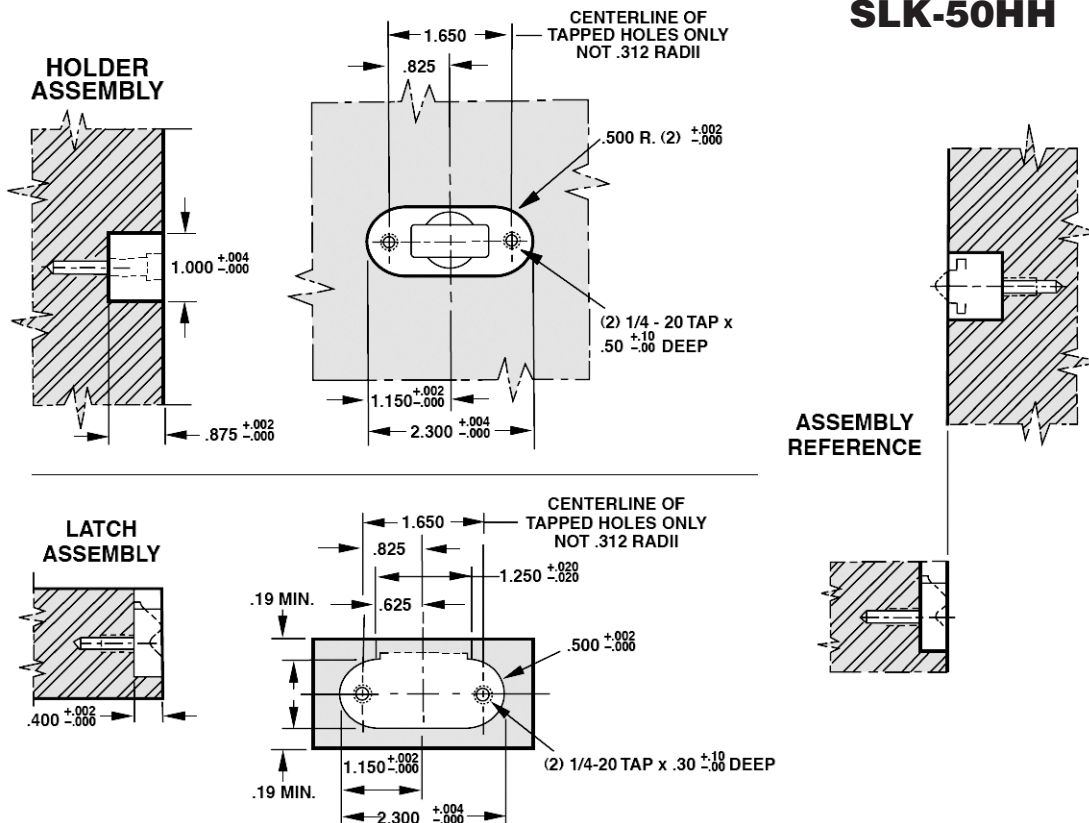


MACHINING DATA

Slide-Latch model SLK-50HH is rated to carry a weight of up to 50 pounds. Ideal for die cast mold slide applications. Multiple Slide-Latches can be easily machined and mounted in mold slides for higher load retentions.

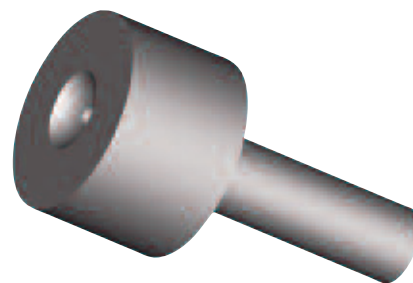
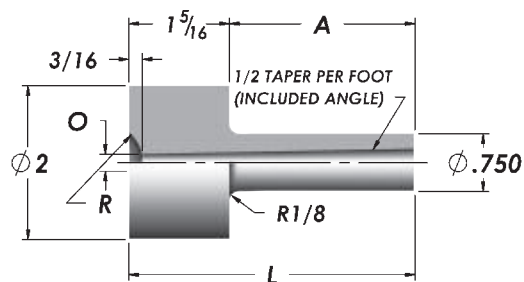


SLK-50HH



THE LATCH IS USUALLY MOUNTED INTO THE SLIDE BECAUSE OF NORMAL SPACE LIMITATIONS AND REQUIREMENTS. THIS IS NOT A RULE THOUGH, AND THE DESIGNER MAY LOCATE THE VARIOUS COMPONENTS TO BEST SUIT THE APPLICATION.

SKD 11 HRC 56-58

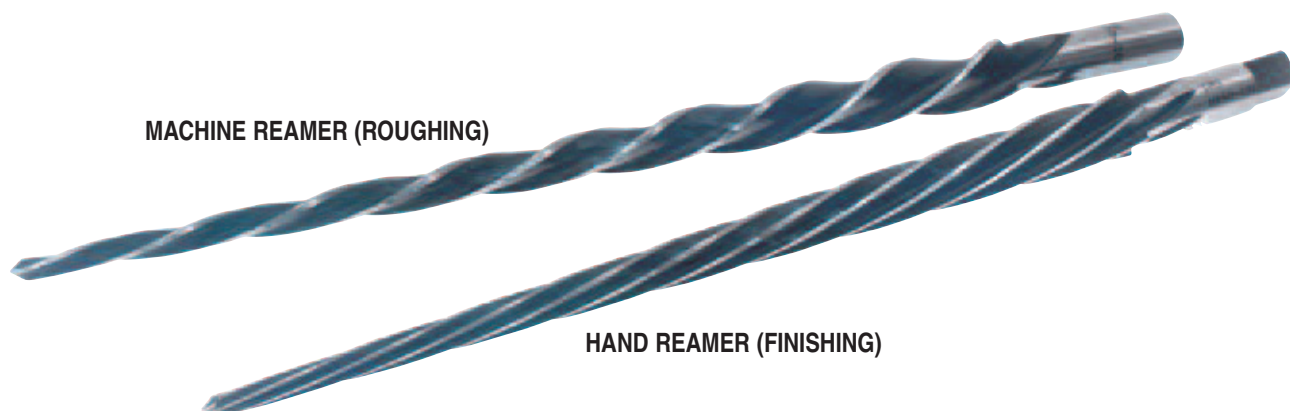


* UV-Series

* NOTE: Discontinued. Available while supplies last. May be available as a per order item after depleted.

A	L	O=5/32 R=1/2	O=7/32 R=1/2	O=9/32 R=1/2
		UV239512	UV239712	UV239912
29/32	2-7/32	UV255512	UV255712	UV255912
1-13/32	2-23/32	UV339512	UV339712	UV339912
1-29/32	3-7/32	UV355512	UV355712	UV355912
2-13/32	3-23/32	UV439512	UV439712	UV439912
2-29/32	4-7/32			

Sprue Reamers

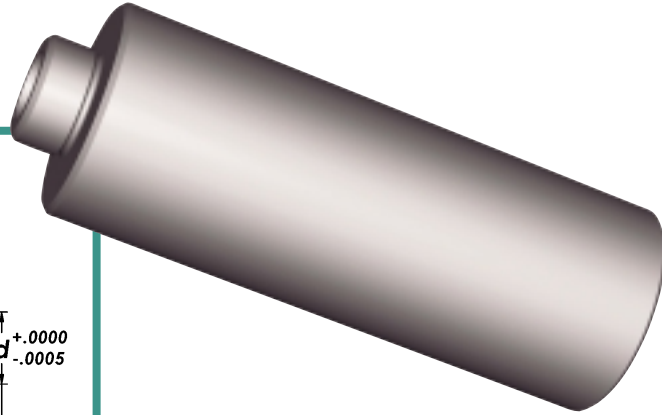
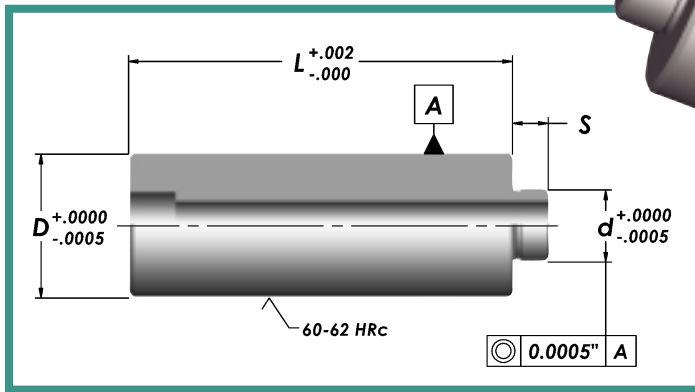


HAND REAMERS						
Catalog Number	Flutes	Taper per foot	Diameter Small End	Diameter Large End	Shank Diameter	Flute Length
HR-50-06S	4	1/2	7/64	3/8	5/16	6"
HR-50-10L	6	1/2	13/64	5/8	1/2	10-1/2

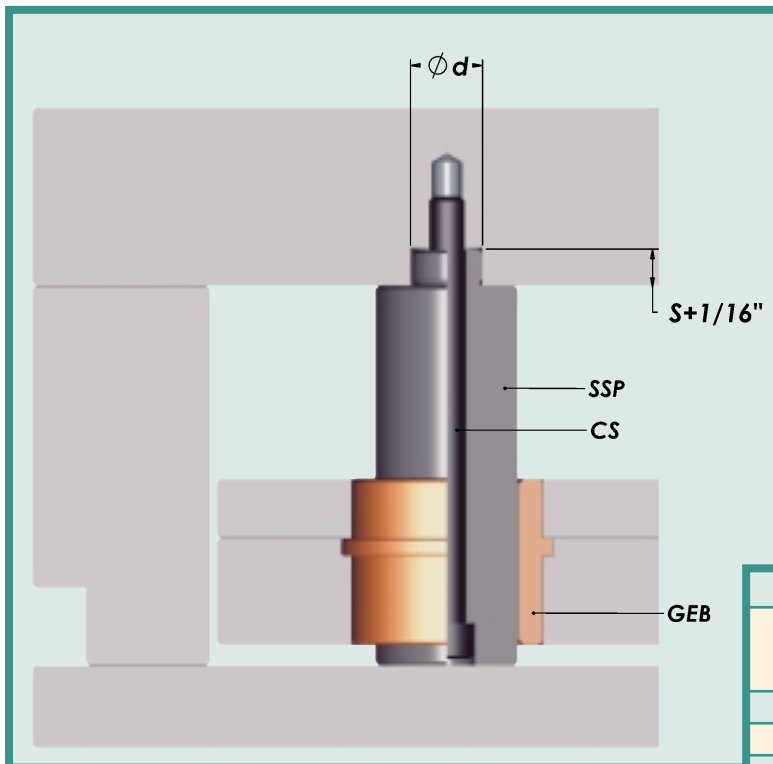
MACHINE REAMERS						
Catalog Number	Flutes	Taper per foot	Diameter Small End	Diameter Large End	Shank Diameter	Flute Length
MR-50-06S	3	1/2	7/64	3/8	5/16	6"
MR-50-10L	3	1/2	13/64	5/8	1/2	10-1/2

Guided Ejection Support Pillars

Inch



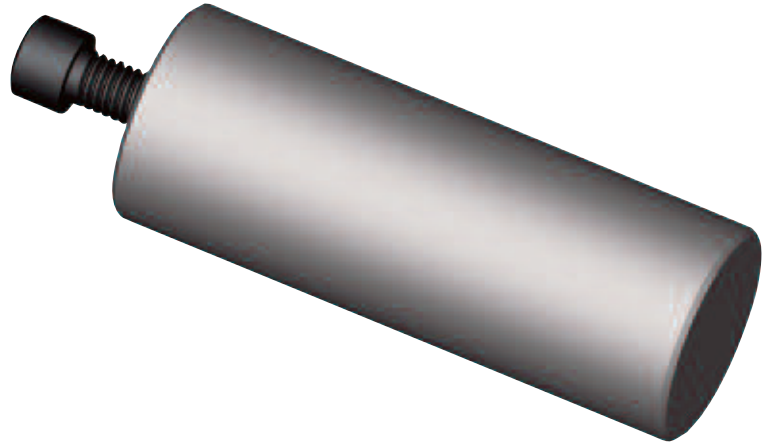
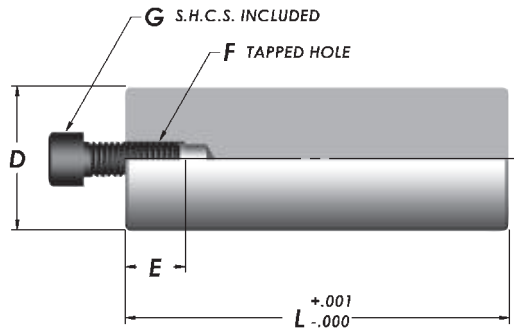
D	d	S	CATALOG NUMBER						
			L=2-1/2	L=3"	L=3-1/2	L=4"	L=4-1/2	L=5"	L=6"
3/4	.468	.281	SSP07525	SSP07530	SSP07535	SSP07540			
1"	.500	.312	SSP10025	SSP10030	SSP10035	SSP10040	SSP10045		
1-1/4	.687	.312	SSP12525	SSP12530	SSP12535	SSP12540	SSP12545	SSP12550	SSP12560
1-1/2	.750	.375	SSP15025	SSP15030	SSP15035	SSP15040	SSP15045	SSP15050	SSP15060
2"	.750	.375	SSP20025	SSP20030	SSP20035	SSP20040	SSP20045	SSP20050	SSP20060



- Available in standard lengths.
- Case hardened.
- For use with any standard guided ejector bushing.
- Bottom clamp plate machining is not required.
- No press fit concerns.
- Ejector set machining is significantly reduced.

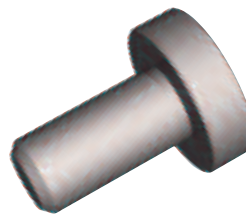
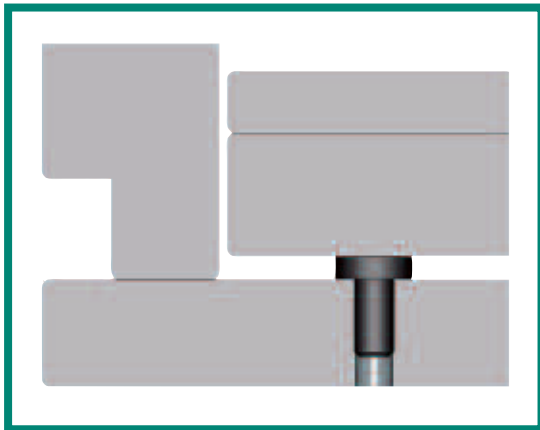
DESIGN INFORMATION			
D	Depth of reamed hole for 'd'	Tapped hole depth for capscREW	CapscREW (supplied)
3/4	.343	.468	1/4-20 x L+.250
1"	.375	.562	5/16-18 x L+.500
1-1/4	.375	.562	5/16-18 x L+.500
1-1/2	.437	.656	3/8-16 x L+.500
2"	.437	.656	3/8-16 x L+.500

Tapped



D	E	F	G	CATALOG NUMBER							
				L=2-1/2"	L=3"	L=3-1/2"	L=4"	L=4-1/2"	L=5"	L=6"	L=8"
1"	5/8	3/8-16	3/8-16x1"	SP1090	SP1091	SP1092	SP1093	SP1094			
1-1/4	5/8	3/8-16	3/8-16x1"	SP1130	SP1131	SP1132	SP1133	SP1134	SP1135	SP1136	
1-1/2	5/8	3/8-16	3/8-16x1"	SP1140	SP1141	SP1142	SP1143	SP1144	SP1145	SP1146	
2"	5/8	3/8-16	3/8-16x1"	SP1150	SP1151	SP1152	SP1153	SP1154	SP1155	SP1156	
3"	1-1/4	5/8-11	none						SP1235	SP1236	SP1238

Stop Pins



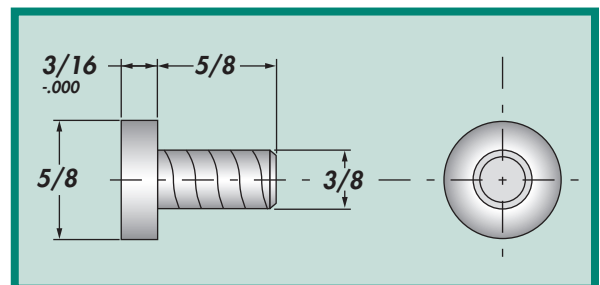
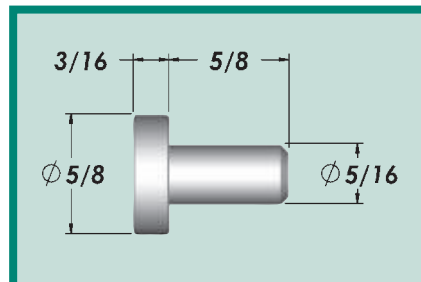
Standard

- Head thickness is .020 oversize to provide grinding stock.
- Catalog Number SB-001

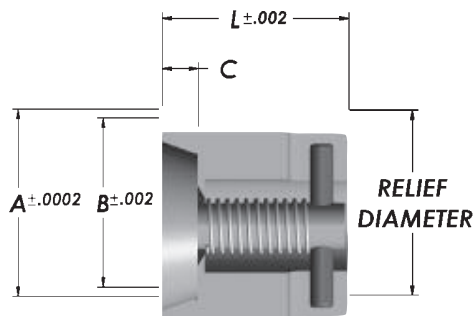


Hardened and Self Tapping

- Head thickness has grind stock.
- Use with 11/32 drilled hole.
- Catalog Number SB-001ST



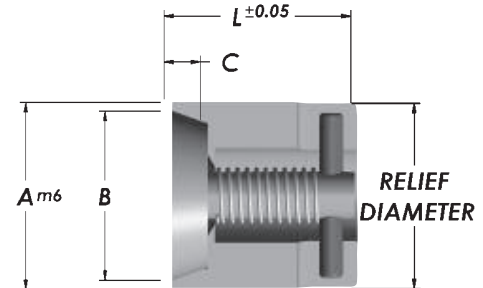
Standard



- Designed to assist in breaking the vacuum created when molding deep molded parts or thin walled parts such as flower pots, garbage cans and containers.
- The valve and body are made from hardened Stainless Steel 45-50 HRC.

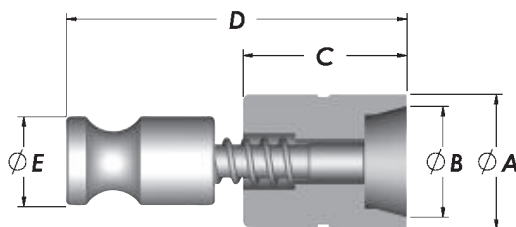
INCH

Catalog Number	Nominal I.D.	A	B	L	C
AE025	1/4	.2505	.225	.252	.05
AE037	3/8	.3755	.325	.377	.07
AE050	1/2	.5005	.437	.502	.10
AE062	5/8	.6255	.562	.627	.13
AE075	3/4	.7505	.656	.752	.15
AE100	1"	1.0005	.875	1.002	.20
AE150	1-1/2"	1.5005	1.312	1.502	.30



METRIC

Catalog Number	Nominal I.D.	A	B	L	C
AE08MM	8	.3149	6.5	12	1,5
AE10MM	10	.3937	8	12	2,0
AE12MM	12	.4724	10	12	2,5
AE16MM	16	.6299	13	20	3
AE20MM	20	.7874	17	20	3,5

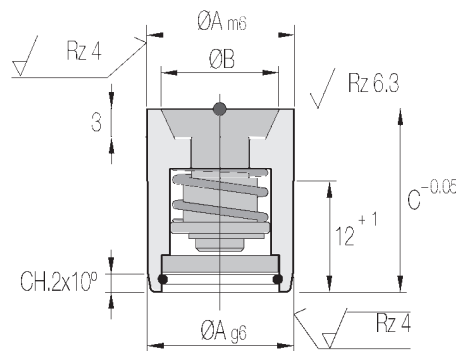


Catalog Number	A	B	C	D	E
AEP-01	8 $\begin{smallmatrix} +0,018 \\ +0,007 \end{smallmatrix}$	6,6	11	24	6
AEP-02	12 $\begin{smallmatrix} +0,018 \\ +0,007 \end{smallmatrix}$	9,7	18	34	8
AEP-03	18 $\begin{smallmatrix} +0,018 \\ +0,007 \end{smallmatrix}$	14,8	22	45,5	12

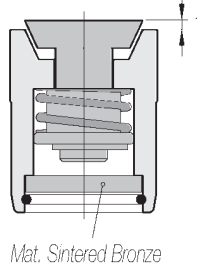
Plunger Style Metric



- 420 Stainless steel 50-55 Rc



CUMSA
www.cumsa.com



Filtered Metric

- Incorporating a sintered bronze filter ensuring that debris cannot affect the valve's proper function.
- The material is INOX. 1.4304 HRC 48-54.

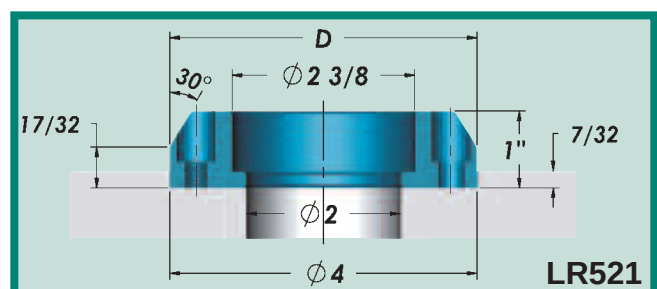
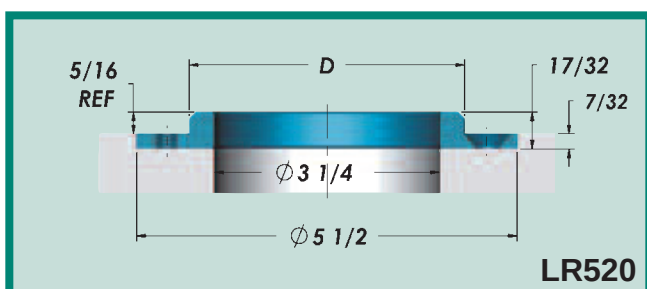
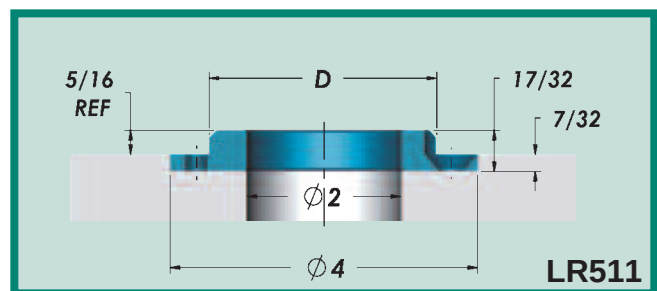
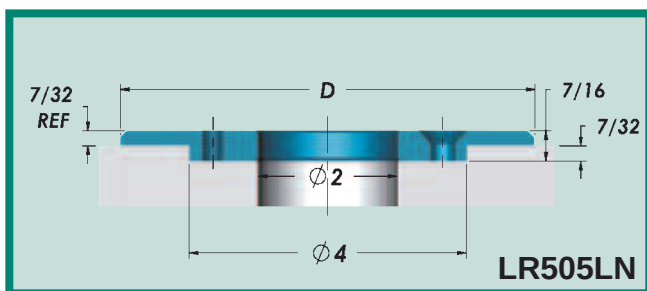
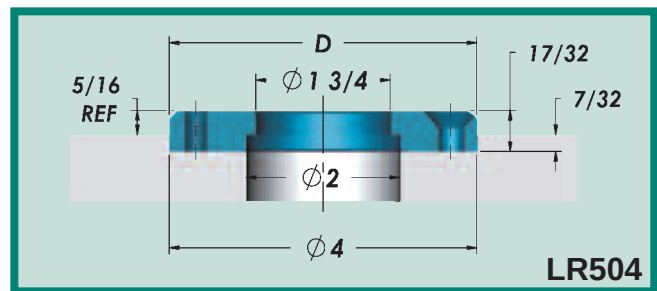
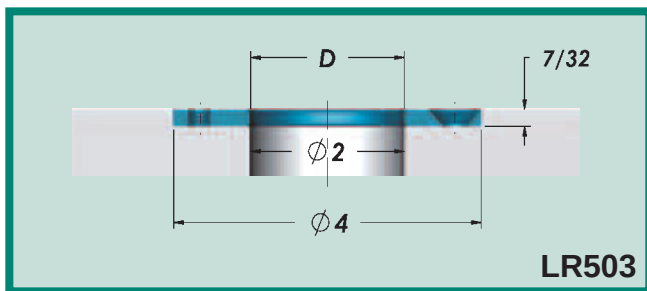
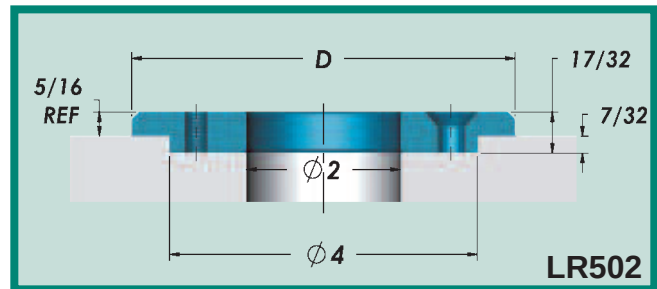
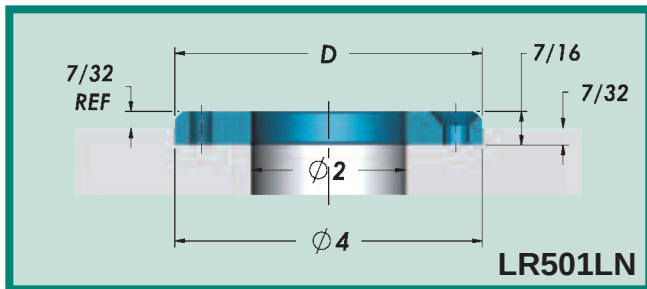
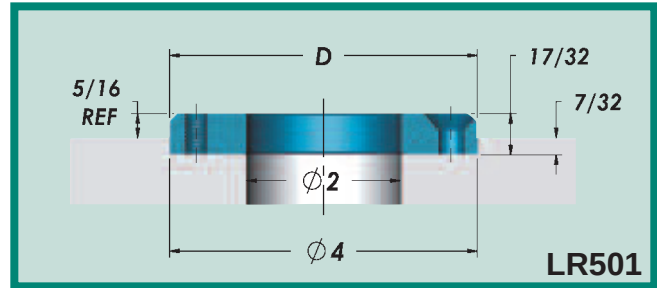
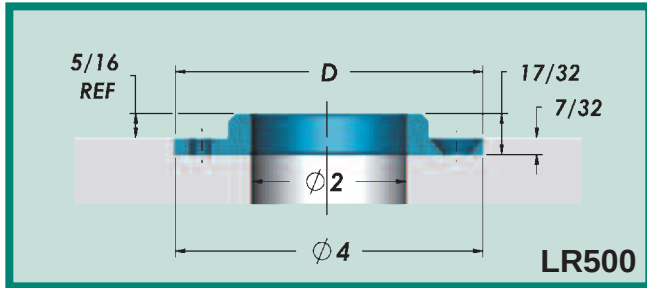
Catalog Number	A	B	C	E
FV.161320	16	13	20	14
FV.201720	20	17	20	18

Locating Rings

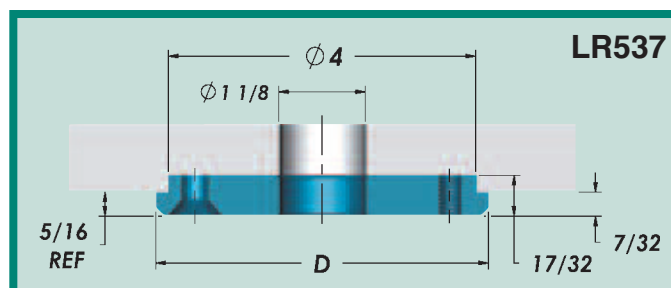
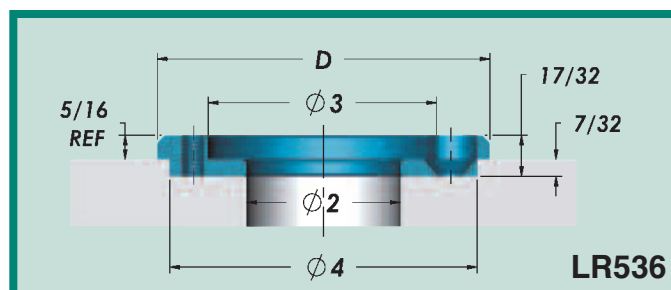
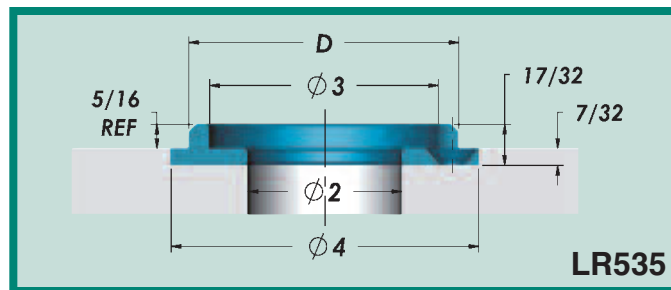
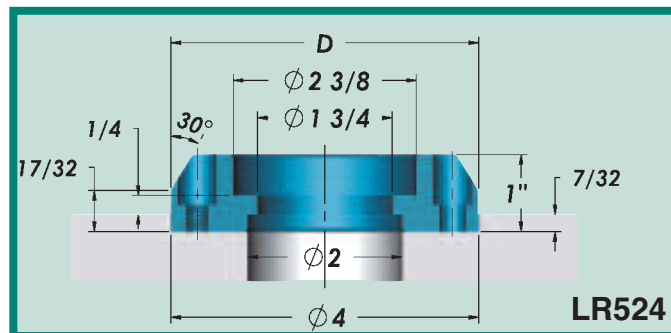
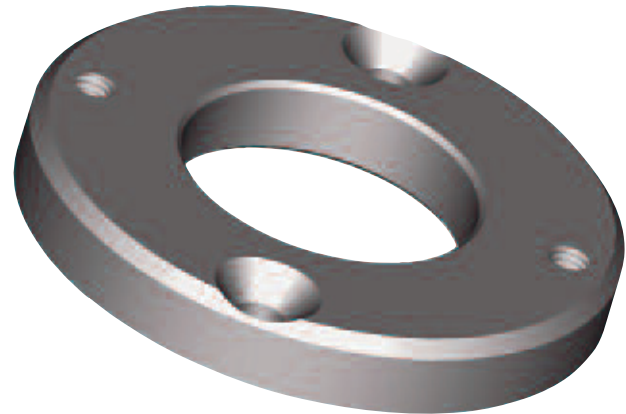
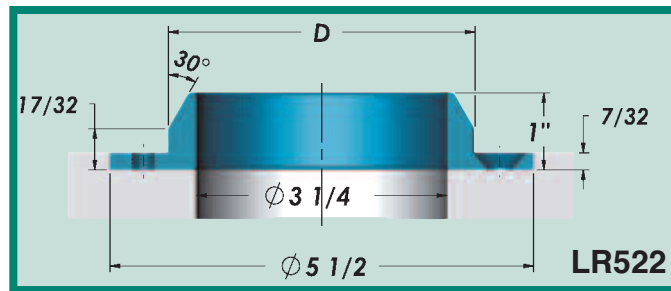
EL PASO
MOLD SUPPLY

- LR521 and LR524 are supplied with two 5/16-18 Socket Head Cap Screws.

- All other Locating Rings are supplied with two 5/16-18 Flat Head Screws.

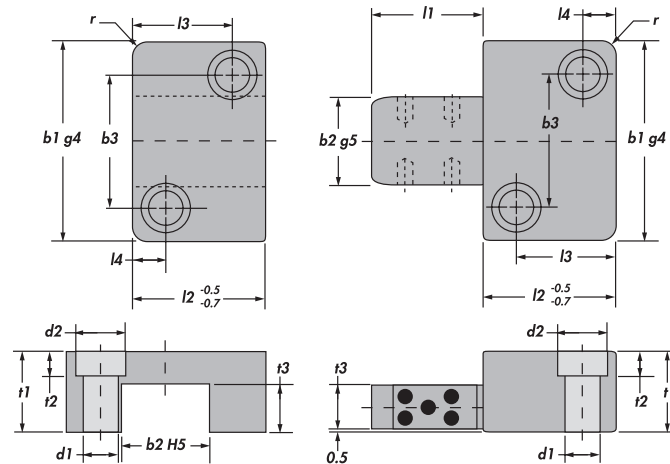
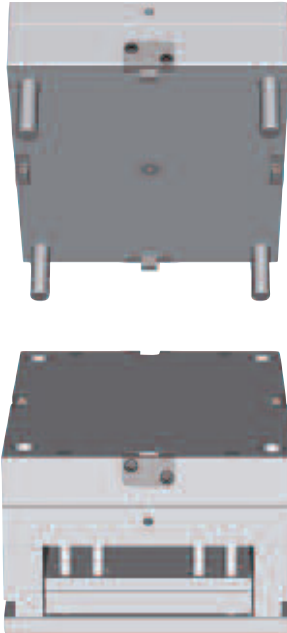


Locating Rings



Catalog Number	D	Description
LR500	2.615	
LR501	3.990	Standard Series
LR501LN	3.990	LN Series
LR502	4.990	
LR503	2.000	
LR504	3.990	Clamp Type
LR505LN	5.990	LN Series
LR511	2.990	
LR520	3.990	Extension Nozzle Type
LR521	3.990	Standard Series - Extra Lead In
LR522	3.990	Extension Nozzle Type - Extra Lead In
LR524	3.990	Clamp Type - Extra Lead In
LR535	3.541	
LR536	4.331	Top Ring
LR537	4.331	Bottom Ring

(Graphite Impregnated)

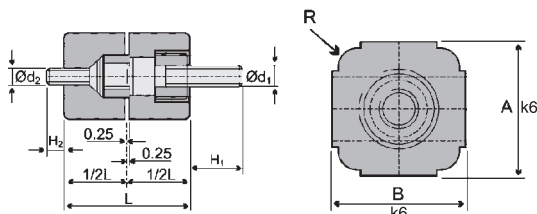


Material: YK30 56-60 Hrc

- Supplied with socket head cap screws.
- Sold in sets only.

Catalog Number	b1	b2	l1	l2	t1	t3	d1	d2	t2	b3	l3	l4	r
OSL16x20	40	16	20	22	20	11	6.6	11	6.8	26	15	7	6
OSL16x40	40	16	40	22	20	11	6.6	11	6.8	26	15	7	6
OSL20x25	45	20	25	27	22	13	6.6	11	6.8	31	19	7	6
OSL20x50	45	20	50	27	22	13	6.6	11	6.8	31	19	7	6
OSL25x32	50	25	32	36	25	14	6.6	11	6.8	35	27	9	8
OSL25x63	50	25	63	36	25	14	6.6	11	6.8	35	27	9	8
OSL32x40	63	32	40	46	32	19	9	15	9	45	35	11	8
OSL32x80	63	32	80	46	32	19	9	15	9	45	35	11	8
OSL40x50	85	40	50	56	36	22	11	18	11	60	40	15	10
OSL40x100	85	40	100	56	36	22	11	18	11	60	40	15	10
OSL50x56	100	50	56	66	40	24	14	20	13	74	48	18	10
OSL50x112	100	50	112	66	40	24	14	20	13	74	48	18	10

Note: All dimensions & tolerances are in millimeters



Square Interlocks

Material: YK30 56-60 Hrc

- Easily installed and removed from the parting line.
- Supplied with socket head cap screws.
- Sold in sets only.

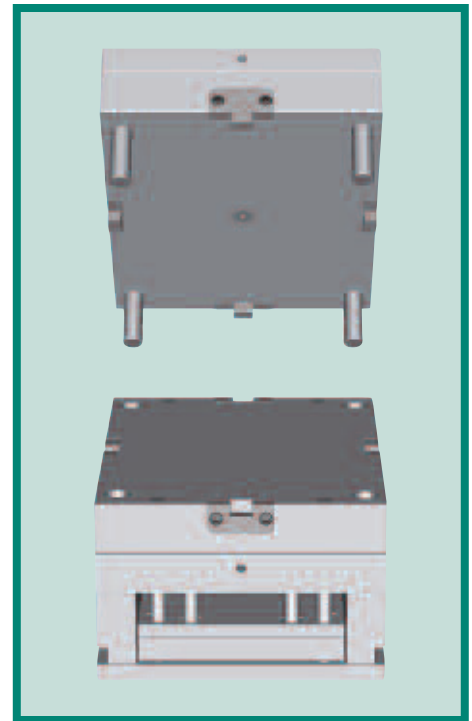
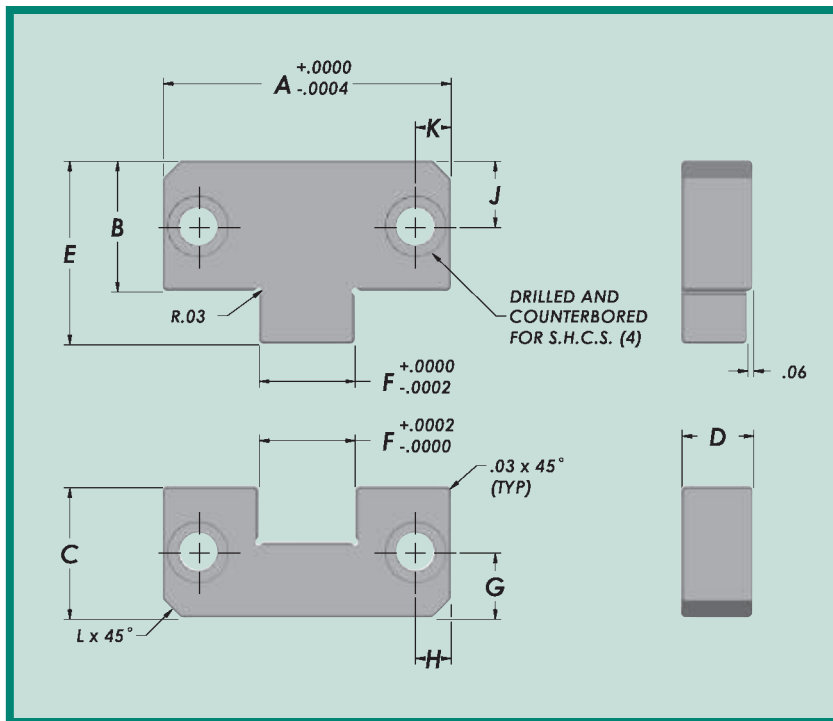
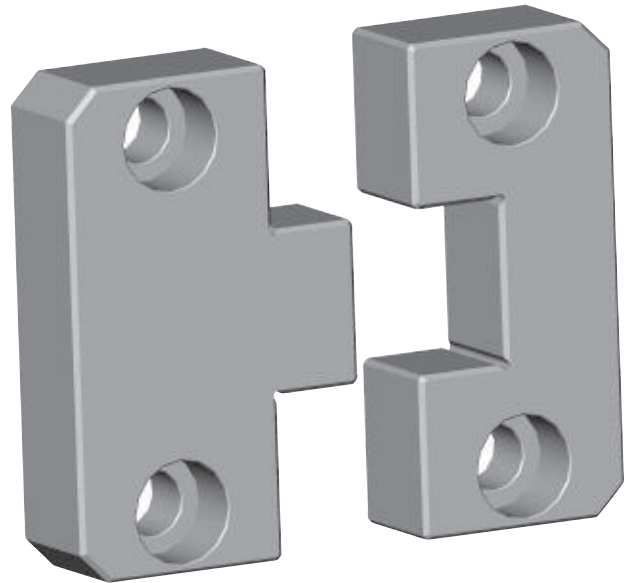
Catalog Number	A	B	L	d1	d2	H1	H2	R
SIL-20	20	20	28	M5	M4	12	4	4
SIL-25	25	25	32	M6	M5	13	8	5
SIL-32	32	32	36	M8	M6	15	12	6
SIL-40	40	40	45	M10	M8	17	10	6

Note: All dimensions & tolerances are in millimeters

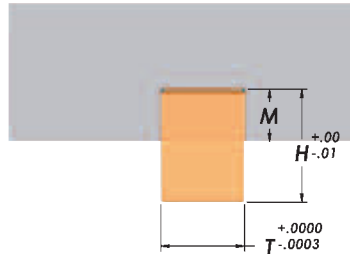
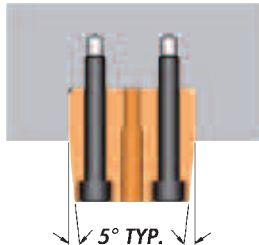
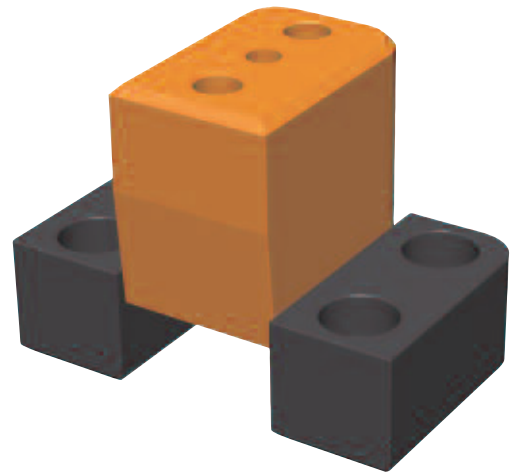
E Side Locks

Male half: AISI O2
52-56 Rc
Female half: AISI O2
56-58 Rc

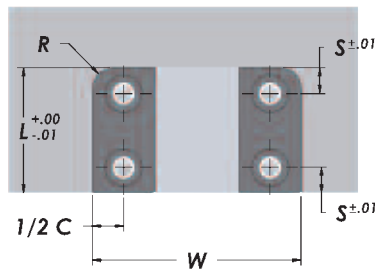
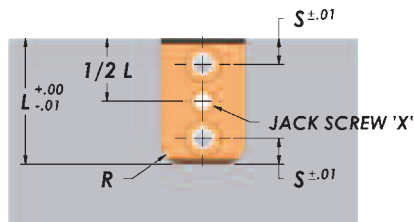
- Supplied with socket head cap screws.
- Sold in sets only.



Catalog Number	A +.0000 -.0004	B +.0000 -.0008	C +.0000 -.0008	D +.000 -.002	E	F	G +.010 -.010	H	J	K	L	SHCS
ESL-1.5	1.500	.870	.870	.620	1.180	.500	.281	.281	.437	.281	.190	1/4-20 X 3/4
ESL-2.0	2.000	.870	.870	.620	1.180	.680	.375	.375	.437	.375	.190	1/4-20 X 3/4
ESL-3.0	3.000	1.360	1.370	.745	1.910	1.000	.688	.375	.688	.375	.190	3/8-16 X 1"
ESL-4.0	4.000	1.870	1.870	.745	2.640	1.375	.875	.625	.875	.625	.500	3/8-16 X 1"
ESL-5.0	5.000	1.870	1.870	1.120	2.640	1.750	.875	.750	.875	.750	.500	1/2-13 X 1-1/4

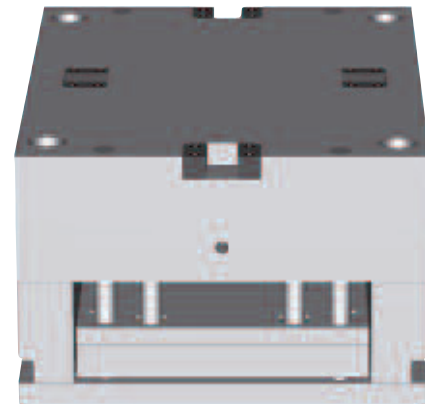
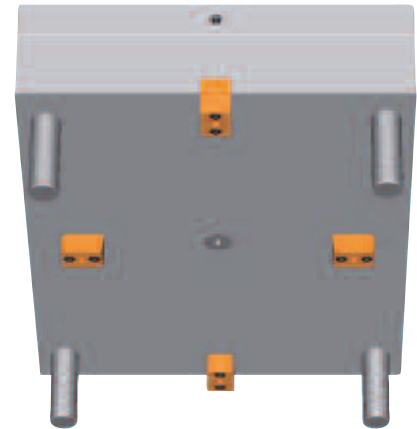
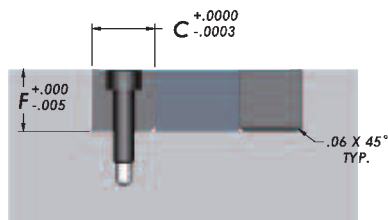


Because Guide Locks can be used inside the mold as well as at the parting line, DMS has added a jack screw hole to the male interlock. This allows removal without damage to the mold. Also added is a 5° angle on each end of the male.



Male:
AISI D2 (58-60 Rc)
Titanium Nitride Coated
78-80 Rc

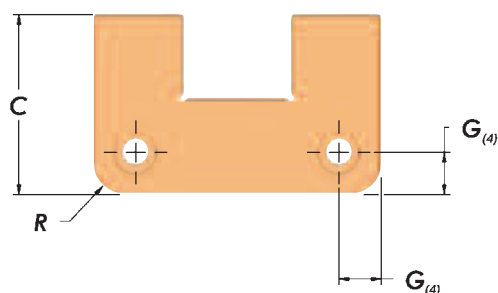
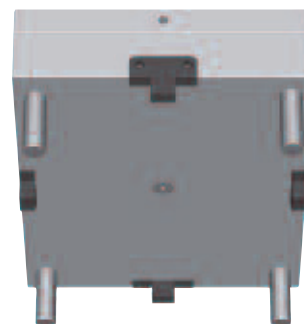
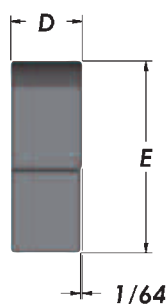
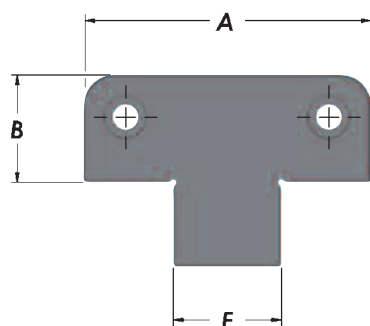
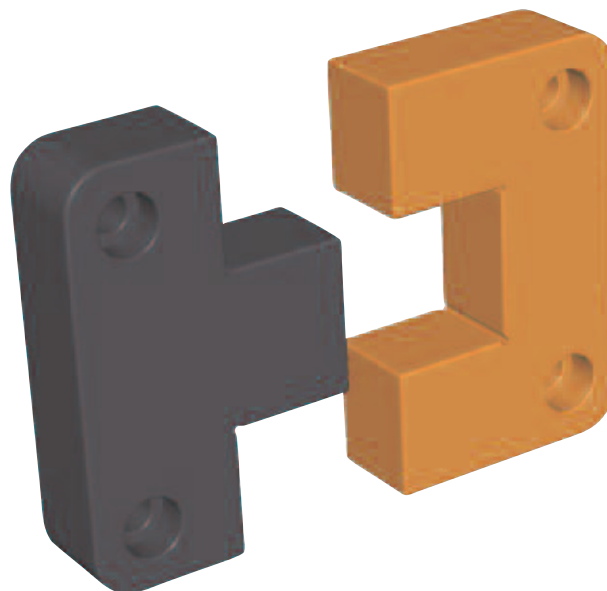
Female:
AISI 1045 (60-62 Rc)
Black Oxide Finish



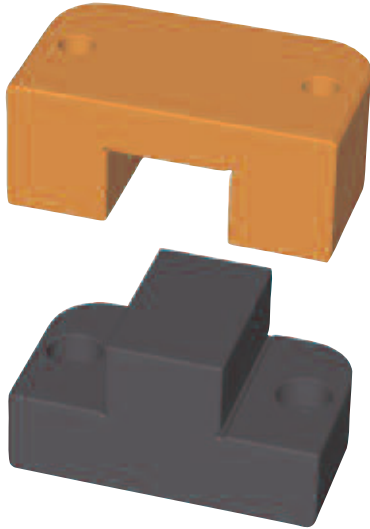
Catalog Number	W +.000 -.010	L +.000 -.010	T +.0000 -.0003	H +.000 -.010	M	C +.0000 -.0003	F +.000 -.005	S +.010 -.010	R	X Jack Screw	SHCS	
											MALE (2)	FEMALE (4)
GL-1.5	1.500	1.000	.500	.850	.375	.500	.500	.250	.187	#6-32	#10-32 X 1"	#10-32 X 5/8
GL-2.5	2.500	1.500	1.000	1.350	.625	.750	.750	.310	.250	1/4-20	1/4-20 X 1-1/2	1/4-20 X 7/8
GL-3.5	3.500	2.000	1.500	1.730	.750	1.000	1.000	.440	.375	3/8-16	3/8-16 X 2"	3/8-16 X 1-1/4
GL-4.5	4.500	2.500	2.000	2.100	.875	1.250	1.250	.560	.500	3/8-16	1/2-13 X 2-1/4	1/2-13 X 1-1/2

Male half: O-6 steel (58-60 Rc)
Black Oxide Finish
Female half: S-7 steel (54-56 Rc)
Titanium Nitrided (80 Rc)

- Supplied with socket head cap screws.
- Sold in sets only.

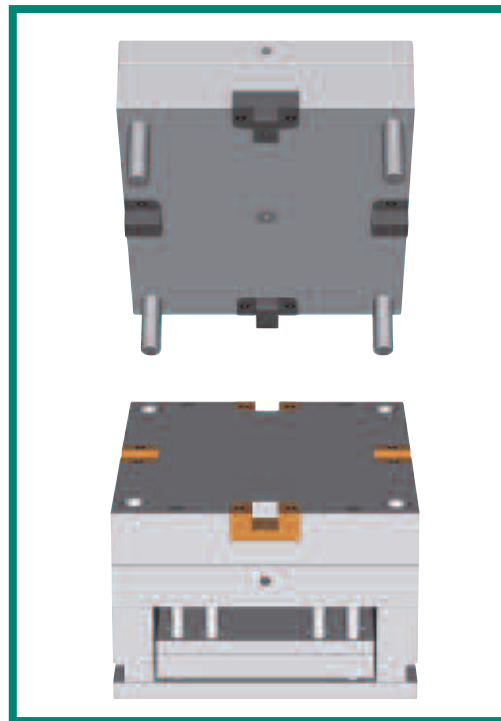
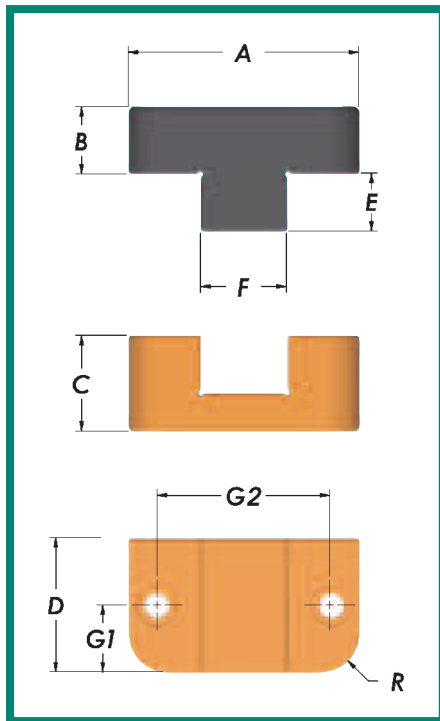


Catalog Number	A +.0000 -.0004	B +.000 -.002	C +.000 -.002	D +.000 -.002	E	F .0001/.0002 Clearance per side	G +.010 -.010	R	SHCS
PLS-100	1.000	.870	1.125	.375	1.310	.440	.250	3/16	10-32 X 1/2
PLS-125	1.250	.870	.875	.437	1.230	.500	.250	1/4	10-32 X 1/2
PLS-150	1.500	.870	1.000	.500	1.250	.625	.281	1/4	10-32 X 5/8
PLS-200	2.000	.870	1.375	.620	1.375	.680	.375	1/4	1/4-20 X 3/4
PLS-300	3.000	1.120	1.875	.745	2.000	1.125	.440	5/16	1/4-20 X 7/8
PLS-400	4.000	1.370	1.875	.875	2.312	1.375	.625	3/8	3/8-16 X 1
PLS-500	5.000	1.370	2.375	1.120	2.625	1.750	.625	3/8	3/8-16 X 1-1/4

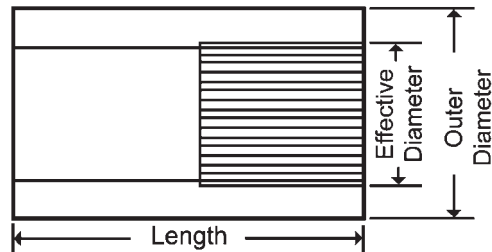


Male half: O-6 steel (58-60 Rc)
Black Oxide Finish
Female half: S-7 steel (54-56 Rc)
Titanium Nitrided (80 Rc)

- Supplied with socket head cap screws.
- Sold in sets only.



Catalog Number	A +.0000 -.0004	D +.000 -.002	C +.000 -.002	B +.000 -.002	E +.010 -.010	F .0001/.0003 Clearance per side	G1 +.010 -.010	G2 +.010 -.010	R	SHCS	
										MALE	FEMALE
TL62X125	1.250	.625	.625	.500	.410	.438	.312	.875	1/4	#6-32 X 5/8	#6-32 X 3/4
TOPL125	1.250	.750	.625	.500	.380	.438	.375	.875	1/4	#8-32 X 5/8	#8-32 X 3/4
TL100X150	1.500	1.000	.875	.375	.500	.500	.500	1.00	1/4	#10-32 X 1/2	#10-32 X 1
TOPL200	2.000	1.125	.875	.625	.500	.750	.563	1.375	3/8	1/4-20 X 3/4	1/4-20 X 1
TL150X250	2.500	1.500	1.375	.625	.750	1.000	.750	1.750	3/8	1/4-20 X 3/4	1/4-20 X 1-1/2
TOPL300	3.000	1.750	1.250	.875	.750	1.125	.875	2.250	1/2	5/16-18 X 1	5/16-18 X 1-1/4
TL200X350	3.500	2.000	1.750	.750	1.00	1.500	1.00	2.500	1/2	3/8-16 X 7/8	3/8-16 X 2



PLASTIC INJECTION MOLDING

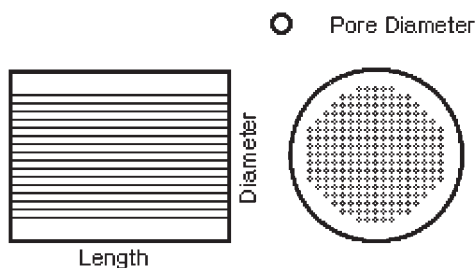
(Pore Diameter: 0.03-0.10mm)

CAT. NO.	O.D.	EFF. D.	PORES	L
003-0610	6	2.5	880	10
003-0810	8	2.5	880	10
003-1010	10	2.5	880	10
005-0610	6	3.5	880	10
005-0810	8	3.5	880	10
005-1010	10	3.5	880	10
01-0810	8	5.5	880	10
01-1010	10	5.5	880	10

KIC Sintered Vents are composed of several straight and uniform pores made through a unique process to allow air or gas that gets trapped inside the mold cavity during the injection or die casting process to escape freely. To optimize mold design and reduce the possibility of manufacturing defective parts, specify strategically placed insertion points to hold the vents.

KIC Sintered Vents with ultra fine pores (diameters of 0.03mm) have been used successfully in venting systems for plastic injection mold applications. The passage of trapped air and gases can be properly released while blocking the escape of molten plastic. With KIC Sintered Vents, you get shorter shot-cycles while dramatically increasing productivity.

KIC Sintered Vents with a pore diameter of 0.4mm are suitable for larger, gravity die-cast parts, while 0.5mm diameter vents are more suited for smaller parts. Low pressure die-cast, or vacuum casting parts require pore diameters between 0.2 and 0.3mm.



LOW PRESSURE DIE-CASTING AND VACUUM CASTING

(Pore Diameter: 0.3± mm)

CAT. NO.	DIA.	PORES	L
03-0510	5	90	10
03-0610	6	90	10
03-0615	6	90	15
03-0810	8	200	10
03-0815	8	200	15
03-1010	10	340	10
03-1015	10	340	15
03-1210	12	340	10
03-1215	12	340	15
03-1415	14	550	15

GRAVITY DIE-CASTING

(Pore Diameter: 0.5± mm)

CAT.NO.	DIA.	PORES	L
05-0310	3	40	10
05-0410	4	40	10
05-0510	5	60	10
05-0610	6	60	10
05-0615	6	60	15
05-0810	8	100	10
05-0815	8	100	15
05-1010	10	200	10
05-1015	10	200	15
05-1210	12	200	10
05-1215	12	200	15
05-1415	14	340	15
05-1615	16	240	15
05-1815	18	550	15
05-2015	20	550	15
05-2815	28	970	15

PRODUCTIVITY: Fast and easy exchange of venting plugs; easy cleaning of molding dies.

EFFICIENCY: Perforation volumes are 5-30 times higher than ordinary venting plugs.

DURABILITY: Decrease replacement frequency of venting plugs.

QUALITY: Drastically decreases defects such as pin holes, mis-run, and short-shots.

SELECTION: Pore sizes range from 0.03 to 0.5mm; length and diameter of vents to meet your needs.

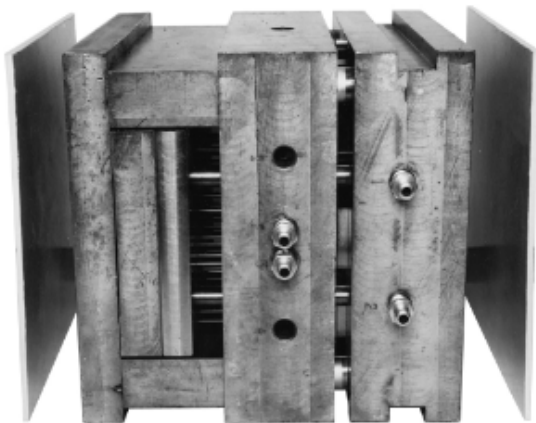
PLEASE NOTE

- We can supply custom vents made to your specification.
- During installation, do not strike the vent pores.
- Keep insertion tolerances between 0.025 and 0.05mm.
- Actual pore diameters and specifications may vary slightly and are subject to change without notice.

CODING SYSTEM EXAMPLE: 005-0610
0.05 Pore Dia. (mm) 06 Vent Dia. (mm) 10 Vent L. (mm)

MOLD INSULATOR SHEETS

REDUCES THERMAL CONDUCTIVITY
BETWEEN MOLD & PLATEN



2 TYPES AVAILABLE

FEATURES: TYPE I & TYPE II

- Type I, Integrated Mica Flakes, **No Asbestos!**
- Type II, Glass Reinforced Polyester, **No Asbestos!**
- Reduces conduction of over five times less heat than concrete asbestos plate.
- Improves energy efficiency.
- Remains stable under compression.
- Highly resistant to water, oil and lubricants.
- Both materials can be cut, drilled, sawed or milled. Uses standard tooling.
- Type II, comes in two thicknesses.
- Type II, both sides have a sanded finish.
- Type II, takes rough handling and abuse without chipping or cracking.

TYPE I

— SPECIFICATIONS —

- Basic Material: Inorganic Bonded Muscovite Mica
- Thickness: 1/8" ± .005
- Density: .094 lbs./cu. in.
- Thermal conductivity: .797 (BTU/in/hr/sq.ft./ Deg. F)
- Thermal capability: 1,000° F
- Tensile Strength: 15,000 PSI @ 1,000° F
- Smoke & Odor: Some at 700 to 1,000° F
None after 5 minutes
- Mechanical properties: can be drilled, machined, cut, sawed or milled without delamination or cracking.
- Electrical specifications available on request.

TYPE II

— SPECIFICATIONS —

- Basic Material: fiberglass reinforced, mineral filled sheet bonded together with heat resistant thermosetting resins.
- Thickness: 1/4" and 1/2" ± .002
- Density: 123 lbs./Ft³.
- Thermal conductivity: 1.7 (BTU/in/hr/sq.ft./ Deg. F)
- Thermal capability: 550° F
- Compressive strength

@ 73° F		D-695	42,900 PSI
@ 300° F	TEST	D-695	45,900 PSI
@ 400° F	METHOD	D-695	48,200 PSI
@ 450° F	ASTM	D-695	48,000 PSI
- Flame Resistance: UL Subject 94, V-O.

TYPE I

THICKNESS	SHEET SIZE	PART NO.
1/8"	1/8" x 12" x 36"	M1-1236
	1/8" x 24" x 36"	M1-2436
	1/8" x 36" x 36"	M1-3636

TYPE II

THICKNESS	SHEET SIZE	PART NO.
1/4"	1/4" x 12" x 36"	M214-1236
	1/4" x 18" x 36"	M214-1836
	1/4" x 24" x 36"	M214-2436
	1/4" x 36" x 36"	M214-3636
1/2"	1/2" x 12" x 36"	M212-1236
	1/2" x 18" x 36"	M212-1836
	1/2" x 24" x 36"	M212-2436
	1/2" x 36" x 36"	M212-3636

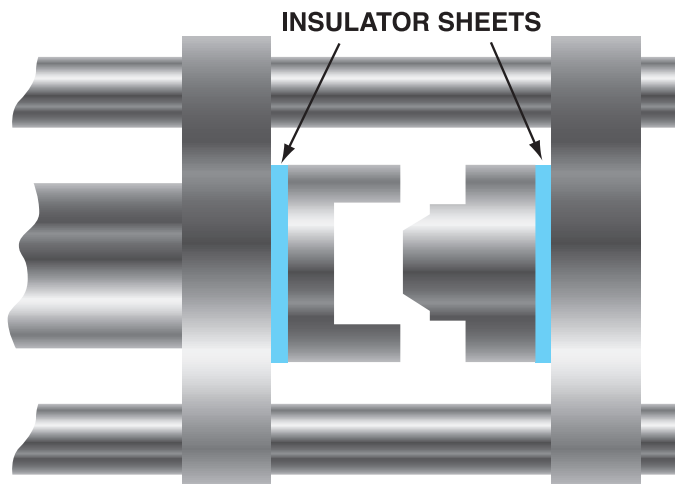
High Temperature Insulator Sheets



GLASTHERM Grade HT

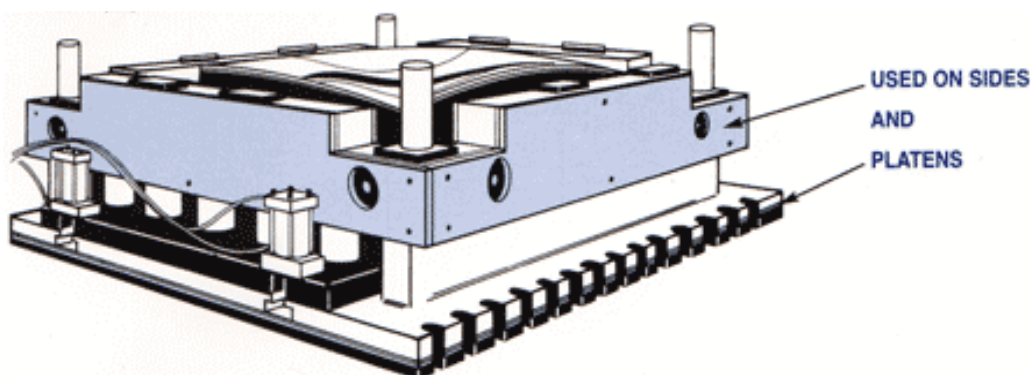
Glastherm Grade HT is a high compressive strength, heat-resistant composite material. Finished to a close thickness tolerance, it is ideal for installation between the mold and the press or within the mold itself. It is completely asbestos-free and rugged to withstand rough handling during installation. It is easily cut and machined with standard metal working equipment. Diamond cutting tools are recommended for long life. Compression molded for high impact strength, supplied micro-finished top and bottom, parallel within $\pm .002$.

GENERAL INFORMATION		
Compressive Strength	(ASTM D-229)	49,400 psi at 75°F
		27,200 psi at 300°F
		18,000 psi at 400°F
		17,100 psi at 500°F
		15,000 psi at 550°F
Modules of Elasticity in Compression	(ASTM D-229)	1.8 x 10 ⁶ psi at 75°F
		2.9 x 10 ⁶ psi at 75°F
Water Absorption	(ASTM D-229)	0.2%
Thermal Conductivity (K Factor) (Btu/hr/ft ² /in/°F)	(ASTM C-177)	1.9 at 75°F
		2.1 at 425°F
Flame Resistance	(UL Subject 94)	94V-0
Expansion Across Thickness		6.43 x 10 ⁻⁵ in/in/°F
Expansion Across Surface		6.43 x 10 ⁻⁵ in/in/°F
Maximum Recommended Service Temperature		550°F



THICKNESS	LENGTH	WIDTH	CATALOG NUMBER
1/4	36"	18"	GTIS1836-25
1/4	36"	24"	GTIS2436-25
1/4	36"	36"	GTIS3636-25
1/2	36"	18"	GTIS1836-50
1/2	36"	24"	GTIS2436-50
1/2	36"	36"	GTIS3636-50

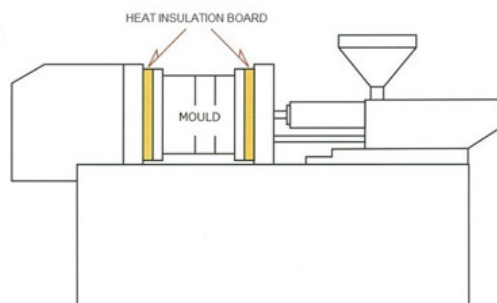
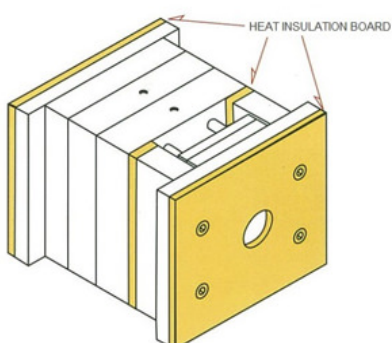
- High hot compressive strength.
- Low thermal conductivity.
- Oil and moisture resistant.
- Reduces heat loss.
- Helps control temperature.
- Faster mold startup.
- Special machining to print available.
- Special sizes also available



EXAMPLE OF APPLICATION

IN CASE OF ATTACHING TO MOULD

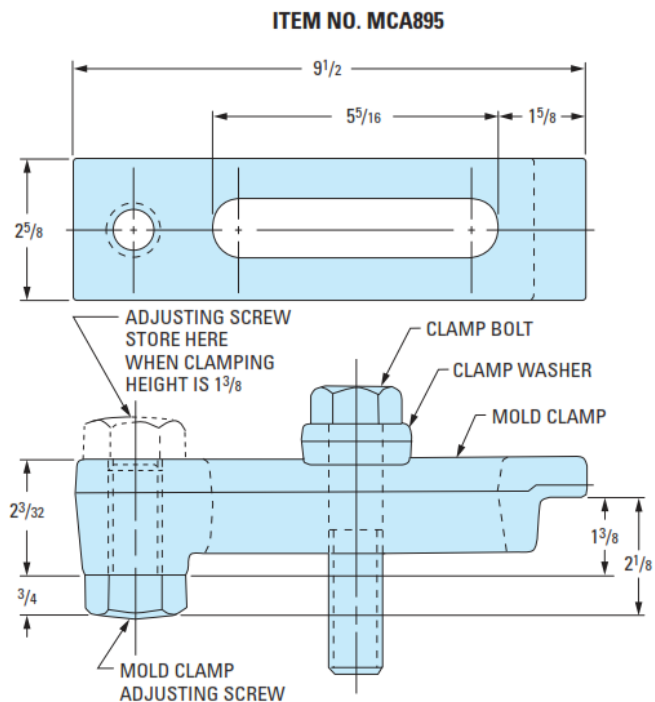
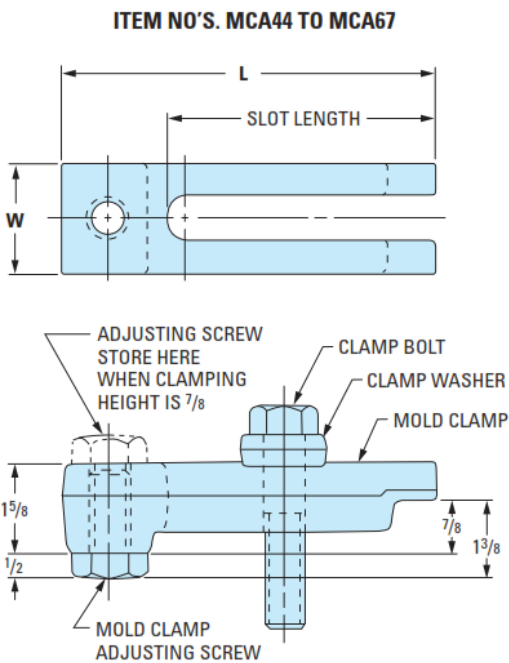
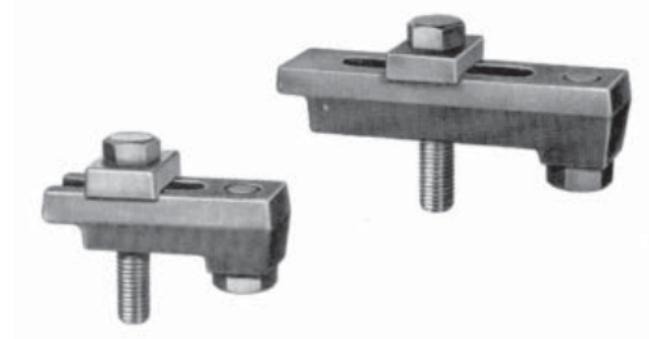
IN CASE OF ATTACHING TO INJECTION MOLDING MACHINE



Mold Clamps:

FOR PLASTICS MOLDS

Forged from Hi-tensile steel and carbonitride hardened. The design features a hardened no-turn washer and a shape and range of sizes that permit universal application for any mold.



ITEM NUMBER	CLAMP DIMENSIONS			CLAMP SCREW SIZE ¹ THD. x LENGTH	REPLACEMENT PARTS	
	L LENGTH	W WIDTH	SLOT LENGTH		CLAMP BOLT AND WASHER KIT	ADJUSTING SCREW
MCA44	4 ³ / ₁₆	1 ⁵ / ₈	2 ¹³ / ₁₆	1 ¹ / ₂ -13 x 3"	MCK4	MCAS5
MCA55	5 ³ / ₁₆	1 ⁷ / ₈	3 ³ / ₈	5 ⁵ / ₈ -11 x 3 ¹ / ₂ "	MCK5	MCAS6
MCA57	7	1 ⁷ / ₈	5	5 ⁵ / ₈ -11 x 3 ¹ / ₂ "	MCK6	
MCA65	5 ³ / ₁₆	2	3 ³ / ₈	3 ³ / ₄ -10 x 3 ¹ / ₂ "	MCK8	MCAS8
MCA67	7	2	5	3 ³ / ₄ -10 x 3 ¹ / ₂ "		
MCA895	9 ¹ / ₂	2 ⁵ / ₈	5 ⁵ / ₁₆	1-8 x 4 ¹ / ₂ "		

Mold Assembly consists of:

- 1 – Mold Clamp
- 1 – Clamp Washer
- 1 – Clamp Bolt
- 1 – Mold Clamp Adjusting Screw

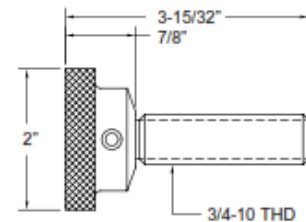
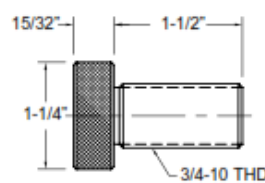
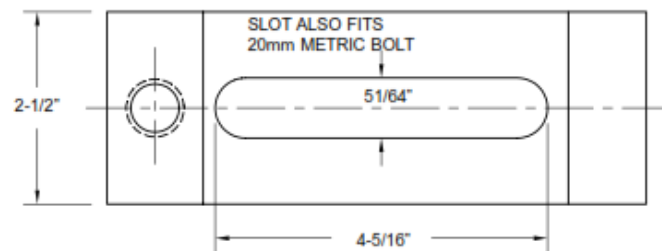
¹NOTE:

Mold Clamp Screws supplied with assembly are of high-tensile strength alloy steel. Lengths shown will accommodate clamping ledges up to a maximum of 1.375. For clamping ledges in excess of 1.375, use longer screws accordingly.

7" HEAVY DUTY MACHINED

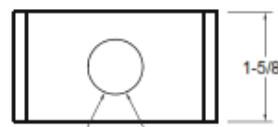
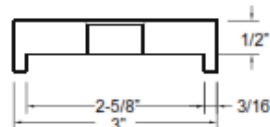
FOR 5/8-11 AND 3/4-10 THD. PLATEN HOLES
CLOSED-TOE

MOLD CLAMPS

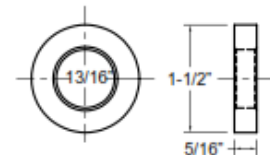


**AB-1 HEIGHT
ADJUSTMENT BOLT**

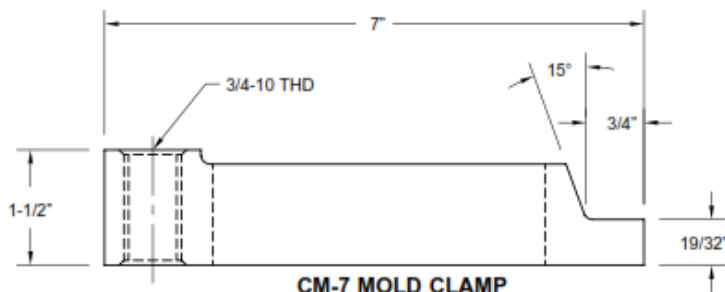
**SAB3/4
SWIVEL HEIGHT
ADJUSTMENT BOLT**



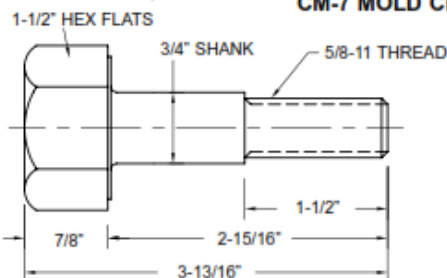
NO-TURN WASHERS



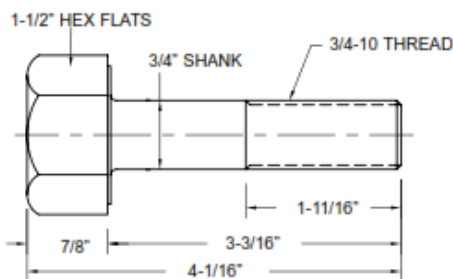
W-112 WASHER



CM-7 MOLD CLAMP



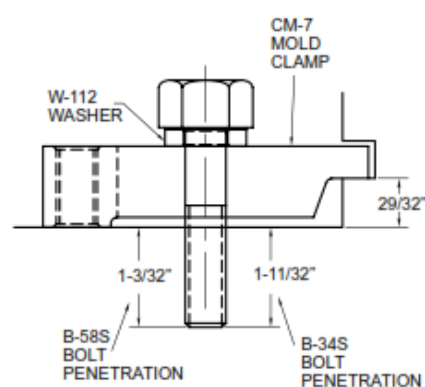
B-58S BOLT



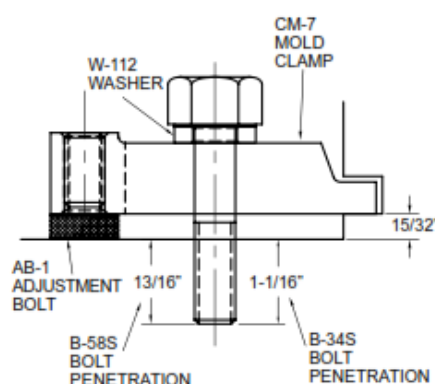
B-34S BOLT

PART NO.	DESCRIPTION
CM-7	7" MACHINED MOLD CLAMP
B-58S	5/8-11 HEAVY DUTY BOLT
B-34S	3/4-10 HEAVY DUTY BOLT
AB-1	3/4-10 HEIGHT ADJUSTMENT BOLT
SAB3/4	3/4-10 SWIVEL HEIGHT ADJUSTMENT BOLT
MW-113	MACHINED NO-TURN WASHER 11/16" I.D.
MW-114	MACHINED NO-TURN WASHER 13/16" I.D.
W-112	WASHER 13/16" I.D.
FW-116	FORGED NO-TURN WASHER 11/16" I.D.
FW-115	FORGED NO-TURN WASHER 13/16" I.D.

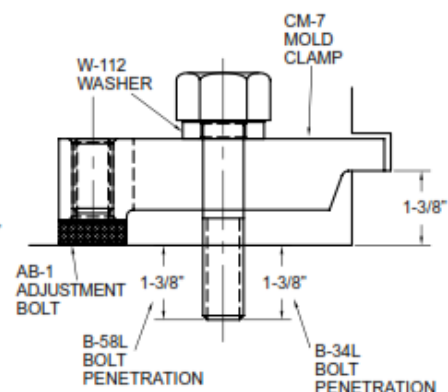
FOR 29/32" MOLD FLANGES



FOR 15/32" MOLD FLANGES



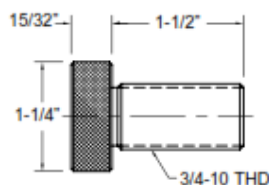
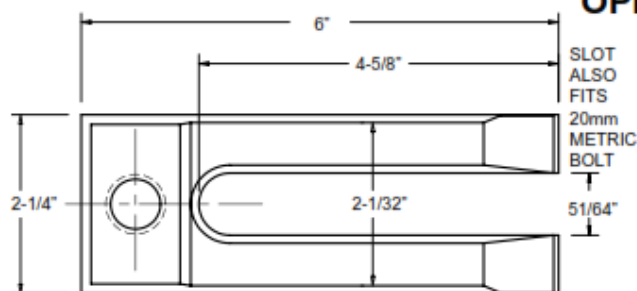
FOR 1-3/8" MOLD FLANGES



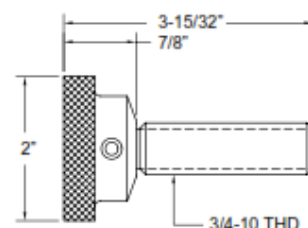
6" HEAVY DUTY FORGED

FOR 5/8-11 AND 3/4-10 THD. PLATEN HOLES

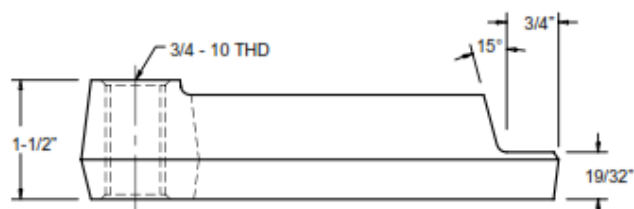
OPEN-TOE



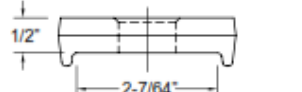
**MODEL AB-1 HEIGHT
ADJUSTMENT BOLT**



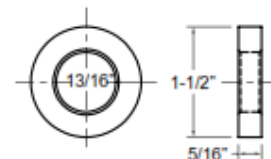
**MODEL SAB3/4
SWIVEL HEIGHT
ADJUSTMENT BOLT**



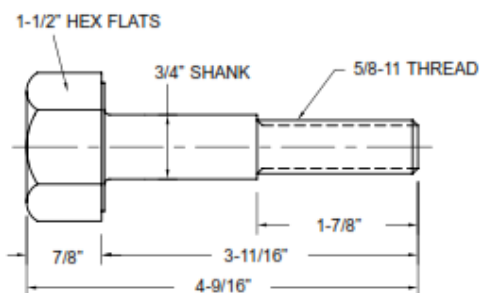
MODEL FCMOT-6 MOLD CLAMP



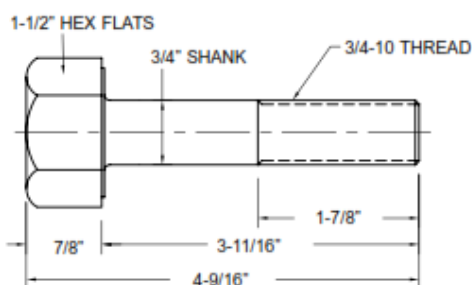
**MODEL FW-112
NO-TURN
FORGED WASHER**



MODEL W-112 WASHER



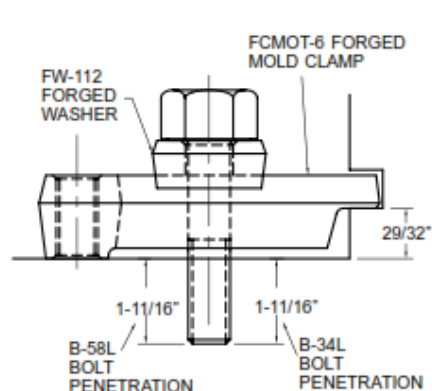
MODEL B-58L BOLT



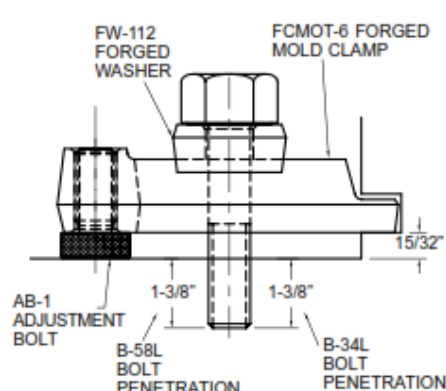
MODEL B-34L BOLT

PART NO.	DESCRIPTION
FCMOT-6	6" OPEN-TOE MOLD CLAMP
B-58L	5/8-11 HEAVY DUTY BOLT
B-34L	3/4-10 HEAVY DUTY BOLT
AB-1	3/4-10 HEIGHT ADJUSTMENT BOLT
SAB3/4	3/4-10 SWIVEL HEIGHT ADJUSTMENT BOLT
FW-112	FORGED NO-TURN WASHER 13/16" I.D.
W-112	WASHER 13/16" I.D.

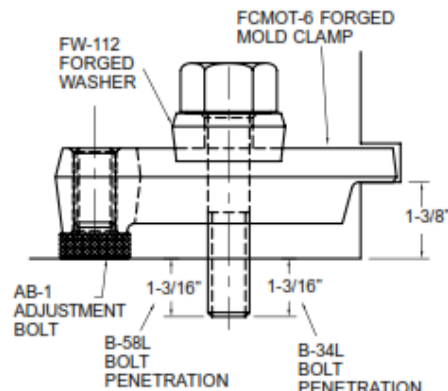
FOR 29/32" MOLD FLANGES



FOR 15/32" MOLD FLANGES



FOR 1-3/8" MOLD FLANGES





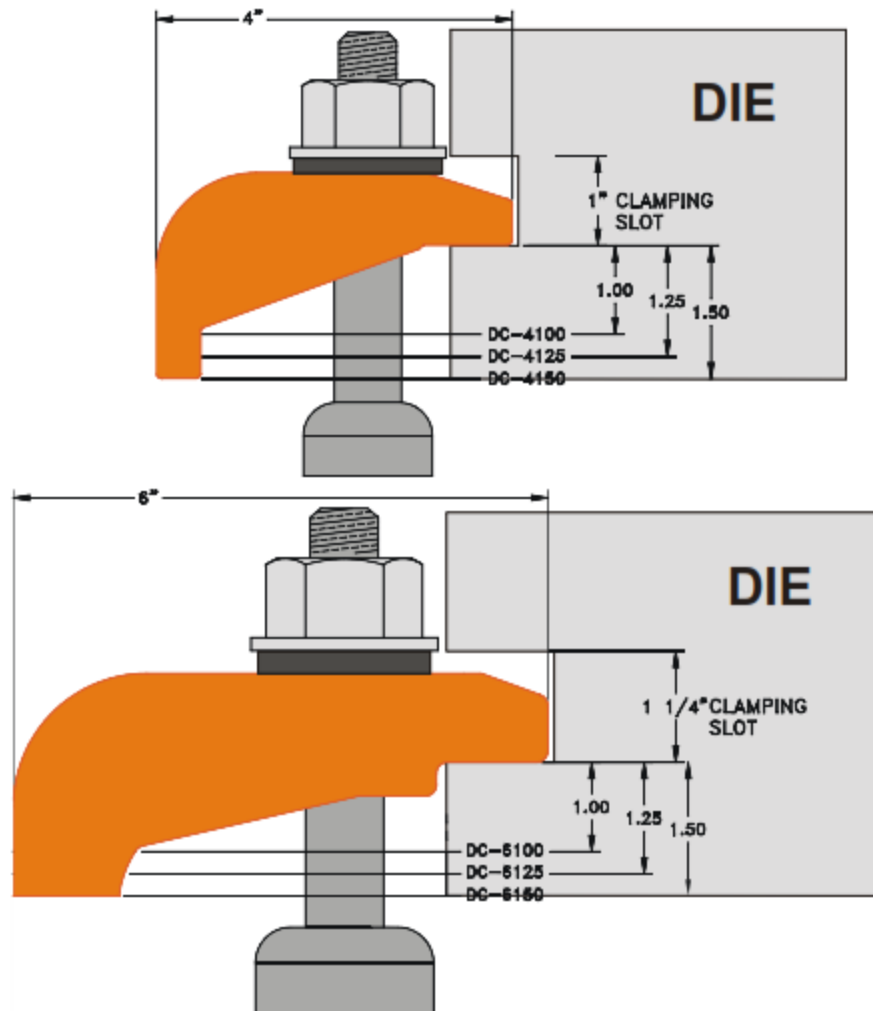
CLOSED SLOT DIE CLAMPS

- **Closed Slot Design -**
The clamp can't slip off bolt and forces the bolt to be in only one place closest to the Die for maximum holding power.
- **Straight-Line Parallel Clamping -**
Puts pressure where it is needed.
- **Accessory T-Bolts, Washers, Flanged Nuts -**
Are forged and machined from superior grade steel.
- **Easy Identification -**
Length and height rise are cast into back of clamp for easy reordering.

INSTRUCTIONS FOR PROPER USE

1. Select clamp for proper die clamping slot rise.
2. Locate die clamp so that the maximum clamping surface is in the die clamping slot.
3. Locate the T-Bolt as close to the die as possible.
4. Torque the bolts tight. DO NOT over-tighten!

6-inch, heat treated die clamps are rated at or above 135,000 psi tensile strength.
4-inch die clamps are rated at or above 85,000 psi tensile strength.



Select clamp desired (see above), then corresponding bolt and nut as indicated below:

DIE CLAMP

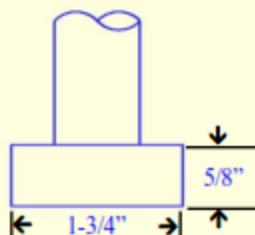
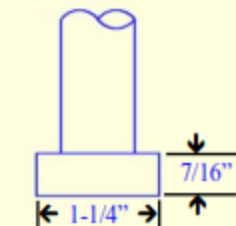
DC-4100
DC-4125
DC-4150

T-BOLT

4 1/2" x 3/4"
Order Part
1542

DC-6100
DC-6125
DC-6150

5" x 7/8"
Order Part
1543



FLANGED NUT

3/4" - 10
Order Part
1544

7/8" - 9
Order Part
1545

HARDENED WASHER

1/4"
Order Part
1546

1/4"
Order Part
1547