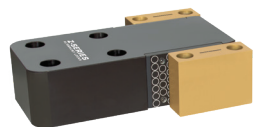
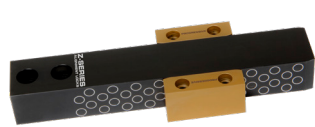
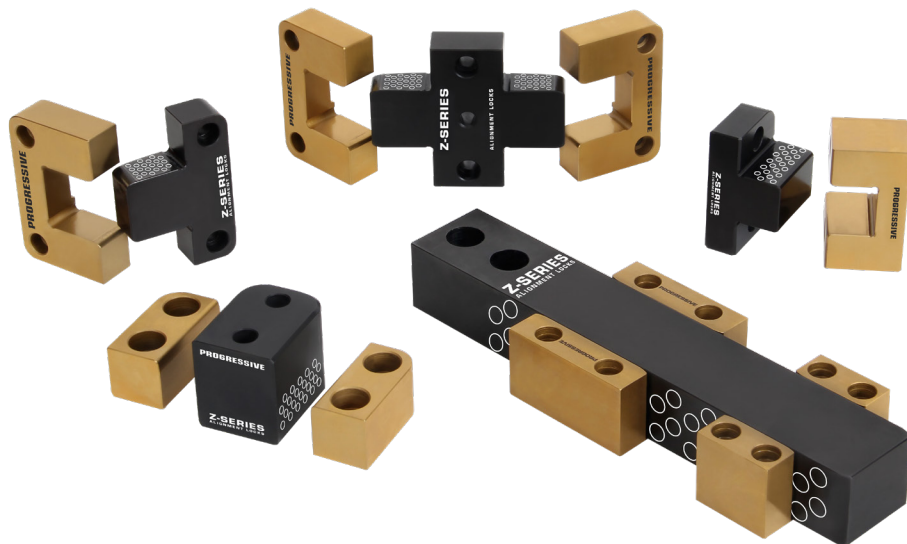




# ALIGNMENT LOCKS

## SECTION C



Bar Locks	Inserted Bar Locks	Side Locks	Top Locks
Prefix: BLB & BLG	Prefix: BLN, BLG	Prefix: SL, SLM	Prefix: TL, TLM
Page: C-4	Page: C-7	Page: C-8	Page: C-9



Guide Locks	X-Style Side Locks	Shuttle Mold Sets	Cavity Interlocks: Flat
Prefix: GL, GLM	Prefix: SLX	Suffix: -SF, -SM	Prefix: CF, CFM
Page: C-10	Page: C-11	Page: C-11	Page: C-12



Cavity Interlocks: Round	Top Lock - 20MM Square	Black Nitride Side Lock	Taper Locks & Plates
Prefix: CRS, CRSM	Prefix: TLM	Prefix: SL	Prefix: MTL, FTL, TLP
Page: C-13	Page: C-14	Page: C-14	Page: C-15



Needle Bearing Locks	Side Locks: Graphite Plugged	Side Locks: Steel
Prefix: SLR, SLRM, TLR	Prefix: SLPM	Prefix: SLS, SLMS
Page: C-16	Page: C-18	Page: C-19





# ALIGNMENT LOCKS

## PERFORMANCE TESTING

Progressive Components regularly tests products through independent testing facilities nationwide.

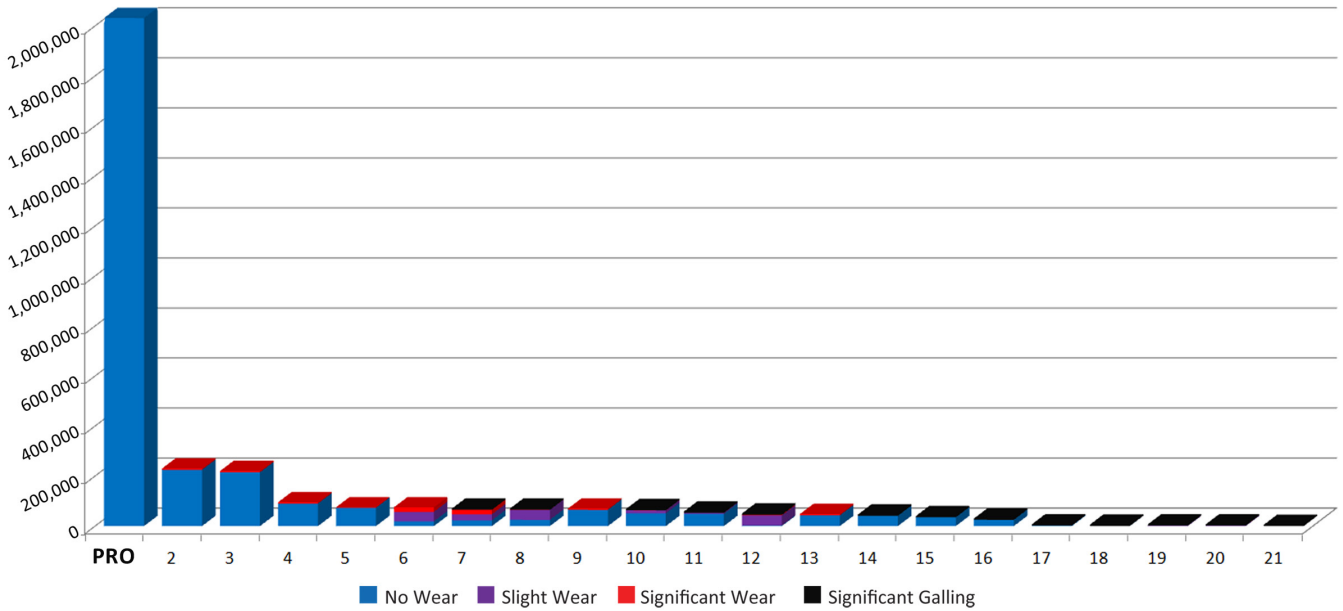
Before launching of the Z-Series™ Alignment Locks, Progressive contracted Element Materials Technology to provide a thorough mold lock Performance Evaluation:

“Element Materials Technology has conducted independent life cycle testing of mold interlocks since 1999. The processes with fixtures and cycling were established to simulate use in the molding environment, but more severe loads were used to accelerate the failures at 4400 lbs of pressure. The locks tested have been from Progressive as well as other standard lock distributors in the US and Asia, plus several additional material and treatment combinations were tested for comparison.”

It was determined that the Progressive Components Z-Series Alignment Locks exceeded the 2-million cycle mark, and still displayed no measurable signs of wear of any type.

“During the past few years, over 21 different tests were performed with the purpose of cycling until failure occurred. At no time during our tests over the years have we seen cycle performance at the level of this new design, represented as PRO in the chart below.”

With the industry’s widest selection of sizes in stock and competitively priced, specifying alignment locks from Progressive Components means your molds will have unmatched protection from damage and downtime.



## ONLINE DATA

**Lifetime Of Perfect Alignment**

**OVERVIEW**  
Progressive Z-Series alignment locks have been engineered to outperform others.

**Z-SERIES ALIGNMENT LOCKS**

[LEARN MORE](#)

Learn more at [procomps.com/z-series](http://procomps.com/z-series).

**TOP LOCKS Z-SERIES**

CATALOG NUMBER	T	W	A	B	C	D	S1	S2	R	Z	SHCS
TL500000	5000	10000	3000	1000	30	750	250	100	100	03	M-#8-32 x 1/2" F-#8-32 x 3/4"
TL620025	625	1250	625	500	41	438	83	375	250	03	M-#8-32 x 1/8" F-#8-32 x 3/4"
TL700025	700	1400	700	500	48	438	75	375	250	04	M-#8-32 x 1/8" F-#8-32 x 3/4"
TL870050	875	1500	875	500	37	500	417	1000	250	04	M-#8-32 x 1/8" F-#8-32 x 1"
TL900000	1000	1800	875	500	37	500	500	1000	250	04	M-#10-32 x 1/2" F-#10-32 x 1"
TL900000	1000	1800	1000	700	75	750	500	1000	375	04	M-#10-32 x 1/8" F-#10-32 x 1 1/4"
TL112000	1125	2000	875	625	50	750	563	1375	375	04	M-1/4-20 x 3/4" F-1/4-20 x 1"
TL120000	1200	2000	1200	750	37	1100	500	1250	500	04	M-1/4-20 x 1/8" F-1/4-20 x 1 1/4"
TL150000	1500	2500	1250	625	37	1000	250	1250	375	04	M-1/4-20 x 3/4" F-1/4-20 x 1 1/2"
TL170000	1700	3000	1250	625	25	1125	375	1500	500	04	M-1/4-20 x 1/2" F-1/4-20 x 1 1/2"

All catalog pages are online for forwarding to suppliers, customers, etc.

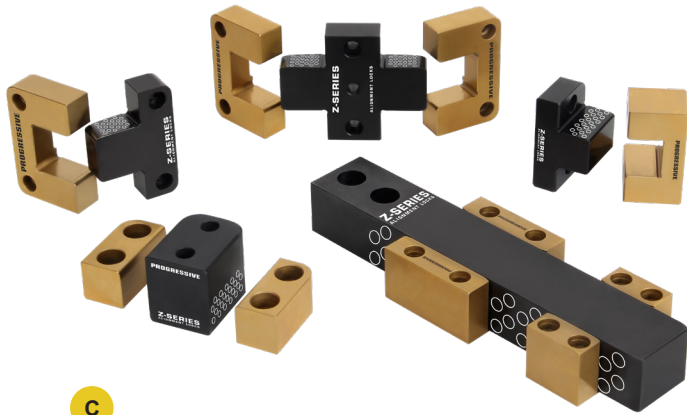
**TESTS AND RESULTS**

Sample ID	Female			Male			Lube	Cycles	Figure
	Material	Coating	Core Hardness	Material	Coating	Core Hardness			
PRO Z-Series	D-2	TIN	S8-62 HRC	H-13 Nitro Carburized	HRC	42-48	Sentral INT/300	2000000	3
PCS Tri-Lock	A-2	Black Oxide	S8-60 HRC	A-2	Black Oxide	S8-60 HRC	PCS Nano	215000	4
DMS	S-7	TIN	S4-56 HRC	O-6	Black Oxide	S8-60 HRC	(INT/300)	215000	5
Self-Lube	S-7	TIN	S0-52 HRC	O-6	Black Oxide	60-62 HRC	Sentral INT/300	150000	6
PCS B&G	A-2	TIN	S8-62 HRC	H-13 Melonite	HRC	40-44	Lithium	80000	7
DMS B&G	8620	TIN	S8-62 HRC	H-13 Melonite	HRC	40-44	Lithium	48000	8
PCS Clad	8620	Armored	S4-54 HRC	O-6	Black Oxide	60-62 HRC	PCS Nano	40000	9
China Brand	D-2	TIN	S8-62 HRC	YK30	Black Oxide	S8-52 HRC	Lithium	400	10

View the entire independent testing report online.

# ALIGNMENT LOCKS

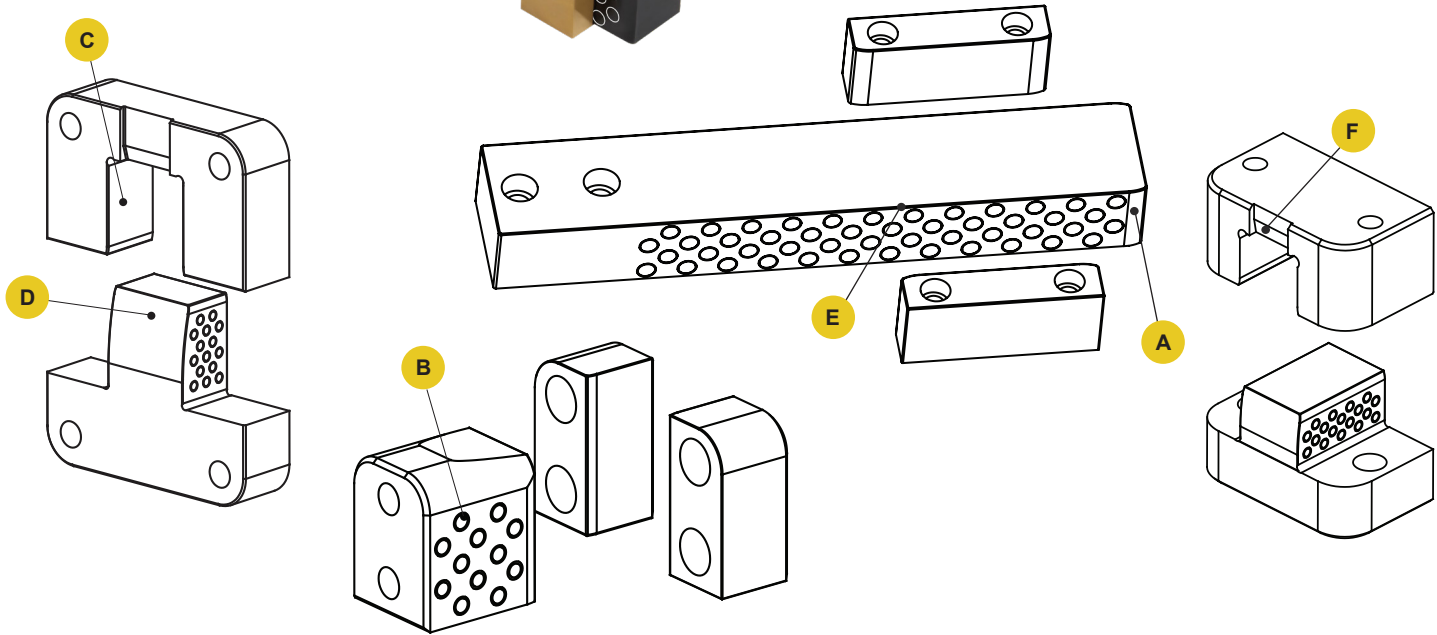
## Z-SERIES™



Progressive's Alignment Locks have been advanced to outperform other styles. This is achieved through a combination of engagement geometry, particulate capturing rings, materials and treatments, and lubrication.

Benefits of the Z-Series Alignment Locks include:

- Longevity that far surpasses others, confirmed by extensive independent lab testing as well as monitoring performance in harsh, 'real world' conditions.
- Exclusive features maintain clean and consistent lubrication.
- Bar Lock, Guide Lock, Side Lock, X-Style Side Lock and Top Lock styles available.



**A Engagement Ramp:** A fine finish radial lead-in for smooth lifting upon engagement of the mold halves.

**B Particle Rings:** Particle rings on the width of the male locks trap material and debris to avoid "picking up" or galling of the alignment surface.

**C Longer Engagement:** Using the maximum allowable engagement area on all locks surpasses previously-established industry standards.

**D Arced Relief:** Reduces the possibility of parts sticking to the lock at the bottom of the mold.

**E Rounded Edges:** A larger radius for all protruding surfaces to eliminate operator "reach in" injury.

**F Pry Slot Lead-In:** Expanded the entry of pry slots to ease removal.

**G Premium Materials:** Males: H-13, 42-48 HRC, Surface: 70 HRC; Females: D-2, 58-62 HRC, Surface: 80 HRC.

### Lubrication & Maintenance:

- Non-drying, non-hardening food grade grease is applied to all areas, including the particle rings.
- For production, install the locks and wipe down the outside of the locks only; maintain the grease on the mating surfaces and within the rings as provided.



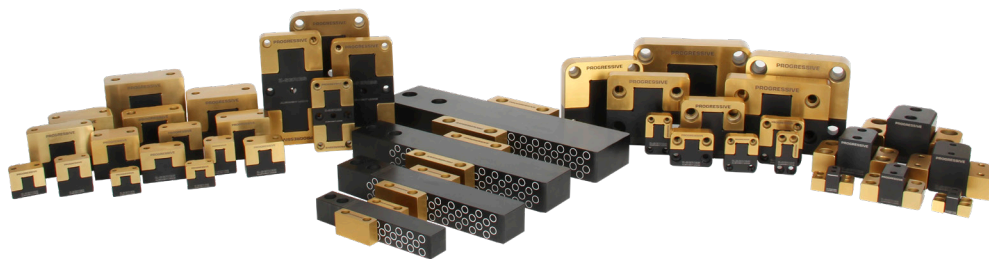
# SIDE/TOP/GUIDE LOCK SELECTION GUIDE

Refer to the chart below to match the correct alignment lock for the corresponding mold size and weight of B-Side and press platen, using four locks per mold. Clean and lubricate lock every 100,000 cycles, and prevent corrosion during mold storage.

RECOMMENDED MAX MOLD SIZE (LXWXH)	SIDE LOCKS	METRIC SIDE LOCKS	GUIDE LOCKS	TOP LOCKS	TOTAL MAX WEIGHT B SIDE + PRESS PLATEN (LBS/KG)
<b>RTI AND MOLDS 8 X 8 X 8 AND SMALLER</b>	SL37X100, SL50X125 SL50X150, SL50X200 SLS62X150, SLS62X200 SLR50X125, SLR50X150	SLM16X50, SLP16X20 SLPM16X40, SLP20X25 SLPM20X50, SLM13X38 SLMS16X50	GL100X150 GLM25X45	TL50X100, TL62X125 TL75X125, TLM26X35 TLR87X150	2,000 / 900
<b>11 X 16 X 10</b>	SL50X125, SL50X150 SL50X200, SLS62X150 SLS62x200, SLS75X300 SLS75X400, SLR50X150 SLR50X200	SLM16X50, SLM19X75 SLPM25X32, SLP25X63 SLPM32X40, SLP32X80 SLPM40X50 SLPM40X100 SLMS19X100	GL100X150 GL150X250 GLM25X45	TL62X125, TL75X125 TLM26X35 TLR87X150 TLR112X200	5,000 / 2,300
<b>16 X 24 X 16</b>	SL50X150, SL50X200 SL75X300, SLS112X500 SLS75X300, SLS75X400 SLR75X300, SLR100X400	SLM19X75, SLM19X100 SLMS25X125 SLPM50X56, SLP50X112 SLRM32X63, SLRM40X100	GL150X250 GLM40X65	TL75X125, TL87X150 TLM26X35, TLM30X45 TLR112X200 TLR150X250	7,000 / 3,200
<b>28 X 34 X 24</b>	SL75X300, SLS112X500	SLM19X75, SLM19X100	GL200X350 GL150X250 GLM40X65	TL100X150, TL100X200 TL112X200, TL112X300 TLM26X35, TLM30X45	10,000 / 4,500
<b>32 X 40 X 28</b>	SL100X400	SLM25X125	GL200X350 GLM40X65	TL112X200, TL112X300 TLM36X55, TLM36X75	15,000 / 6,800
<b>42 X 48 X 34</b>	SL125X500		GL250X450 GLM50X90	TL150X250, TL175X300 TLM36X55, TLM36X75	20,000 / 9,000
<b>48 X 52 X 38</b>	SL150X600		GL250X450	TL175X300, TL200X350 TLM45X100	26,000 / 11,800

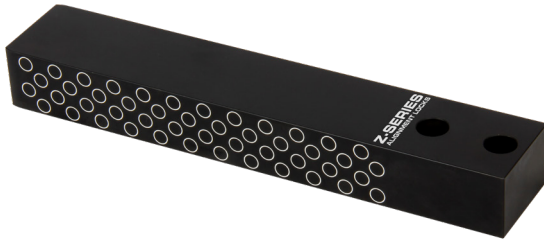
# BAR LOCK SELECTION GUIDE

BAR CATALOG NUMBER	GUIDE CATALOG NUMBER	BAR LOCK ENGAGEMENT	TOTAL MAX WEIGHT SUPPORTED (LBS/KG)
BLB100L4	BLG100L1.3, BLG100L1.8	2.50	15,000 / 6,800
BLB100L6	BLG100L2.3, BLG100L2.8	4.50	
BLBM25L125	BLGM25L27, BLGM25L36	89 mm	15,000 / 6,800
BLB125L5	BLG125L1.3, BLG125L1.8	3.00	20,000 / 9,000
BLB125L9	BLG125L2.3, BLG125L2.8	7.00	
BLBM32L160	BLGM32L36, BLGM32L46	114 mm	20,000 / 9,000
BLB137L6	BLG137L1.8, BLG137L2.3	3.50	23,000 / 10,400
BLB137L11	BLG137L2.8, BLG137L3.3, BLG137L3.8	8.50	
BLBM38L250	BLGM38L46, BLGM38L76	194 mm	26,000 / 11,800
BLB150L8	BLG150L1.8, BLG150L2.3	4.50	26,000 / 11,800
BLB150L16	BLG150L2.8, BLG150L3.3, BLG150L3.8	12.50	
BLN150L8	BLG150L1.8, BLG150L2.3 BLG150L2.8, BLG150L3.3, BLG150L3.8	3.75	25,000 / 11,340
BLN250L10	BLG250L4.3	5.00	50,000 / 22,500
BLN350L13	BLG350L4.8	6.00	75,000 / 34,000



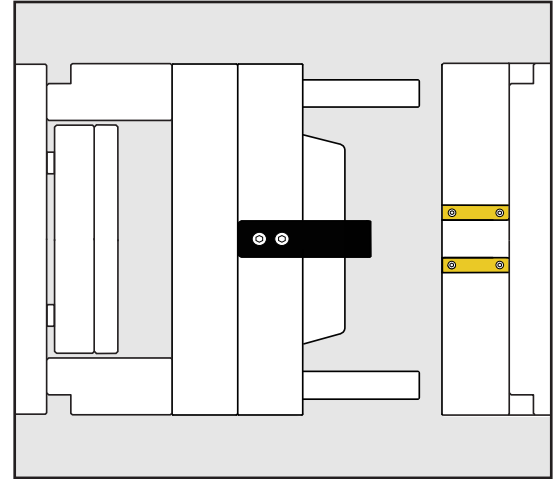
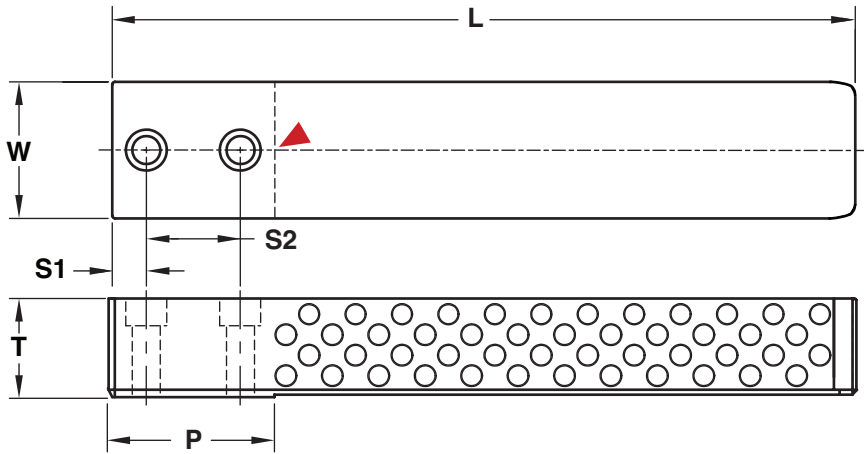
# BAR LOCKS

## Z-SERIES



Progressive's Bar Locks enable mold designers to select off-the-shelf components for alignment of large molds and molds with multiple moving plates.

Long-term precision alignment of plates is achieved through Progressive's Z-Series proprietary treatments, engagement ramp geometry and particle rings on the guiding surfaces.



### MALE BAR LOCKS

#### Inch Standard

**M** H-13 **H** Core: 42-48 HRC, Surface 70 HRC **S** Black Nitride ▶ CAD insertion point

CATALOG NUMBER	L	T +0.000 - .005	W +0.000 - .0005	P Minimum Pocket Length	S1 ±.01	S2 ±.01	SHCS
BLB100L4	3.88	1.000	1.000	1.38	.38	.69	5/16-18 x 1.25
BLB100L6	6.00						
BLB125L5	4.88	1.250	1.500	1.88	.50	1.00	3/8 - 16 x 1.50
BLB125L9	8.88						
BLB137L6	5.88	1.375	2.000	2.38	.50	1.38	3/8 - 16 x 1.50
BLB137L11	10.88						
BLB150L8	7.88	1.500	3.000	3.38	.63	2.00	1/2 - 13 x 1.75
BLB150L16	15.88						

Note: Sold individually. Each catalog number includes (1) Bar and (2) Screws.

Guides are sold separately on page C-5.

Note: 500°F max operating temperature.

### MALE BAR LOCKS

#### Metric Standard

**M** H-13 **H** Core: 42-48 HRC, Surface 70 HRC **S** Black Nitride

CATALOG NUMBER	L	T +0 - .1	W +0.00 - .01	P Minimum Pocket Length	S1 ±.25	S2 ±.25	SHCS
BLBM25L125	125	25	25	36	10	18	M8-1.25 x 30
BLBM32L160	160	32	38	46	12.5	25	M10-1.5 x 35
BLBM38L250	250	38	50	56	15	30	M12-1.75 x 45

Note: Sold individually. Each catalog number includes (1) Bar and (2) Screws.

Guides are sold separately on page C-5.

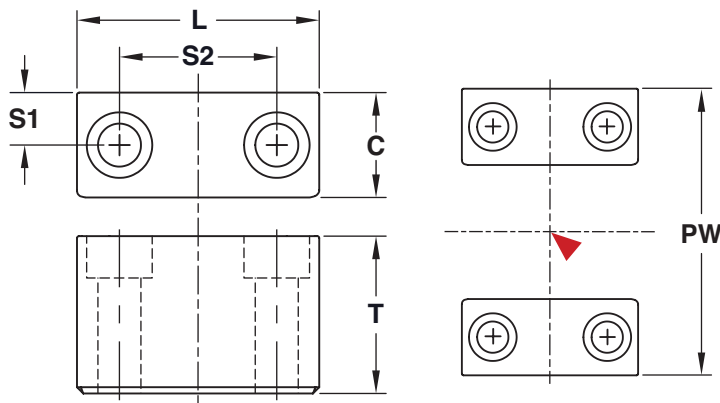
Note: 260°C max operating temperature.

Bars can be cut to length and have radii machined and Guides can be provided with radii machined. Refer to page C-6 for details. Bars and Guides can also be made to customer specifications by referring to the template in section X.





# BAR LOCKS GUIDES



PW Tolerances:  
Standard Bars:  
+.0003/+.0006  
(+.007/+.015mm)  
Inserted Bars:  
+.0010/+.0015  
(+.025/+.038mm)

▶ CAD insertion point

**M** D-2 **H** Core: 58-62 HRC, Surface 80 HRC **S** Titanium Nitride Coated

**Inch Standard**

CATALOG NUMBER	T +.000 -.005	L +.000 -.005	C +.0000 -.0003	S1 ±.01	S2 ±.01	SHCS	PW	USE WITH
BLG100L1.3	1.000	1.310	.500	.250	.750	#10-32 x 1.25	2.000	BLB100L4 & BLB100L6
BLG100L1.8		1.810			1.125			
BLG100L2.3		2.310			1.250			
BLG100L2.8		2.810			1.625			
BLG125L1.3	1.250	1.310	.625	.312	.750	1/4-20 x 1.50	2.750	BLB125L5 & BLB125L9
BLG125L1.8		1.810			1.125			
BLG125L2.3		2.310			1.250			
BLG125L2.8		2.810			1.625			
BLG137L1.8	1.375	1.810	.750	.375	1.125	5/16-18 x 1.50	3.500	BLB137L6 & BLB137L11
BLG137L2.3		2.310			1.250			
BLG137L2.8		2.810			1.625			
BLG137L3.3		3.310			2.250			
BLG137L3.8		3.810			2.500			
BLG150L1.8	1.500	1.810	1.000	.500	1.000	3/8-16 x 1.75	5.000 (6.000 for BLN150)	BLN150L8, BLB150L8, & BLB150L16
BLG150L2.3		2.310			1.500			
BLG150L2.8		2.810			1.625			
BLG150L3.3		3.310			2.250			
BLG150L3.8		3.810			2.500			
BLG250L4.3	2.500	4.310	1.250	.625	3.00	1/2-13 x 2.75	7.500	BLN250L10
BLG350L4.8	3.500	4.810	1.750	.875	3.25	5/8-11 x 3.75	9.500	BLN350L13

Note: 500°F max operating temperature.

**M** D-2 **H** Core: 58-62 HRC, Surface 80 HRC **S** Titanium Nitride Coated

**Metric Standard**

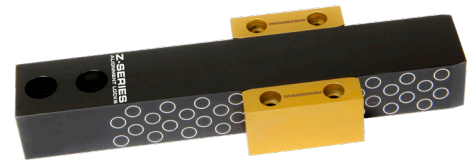
CATALOG NUMBER	T +0 -.1	L +0 -.1	C +.000 -.007	S1 ±.25	S2 ±.25	SHCS	PW	USE WITH
BLGM25L27	25	27	12	6	14	M4-0.7 x 25	49	BLBM25L125
BLGM25L36		36			20			
BLGM32L36	32	36	16	8	20	M6-1.0 x 35	70	BLBM32L160
BLGM32L46		46			30			
BLGM38L46	38	46	22	11	24	M10-1.5 x 40	94	BLBM38L250
BLGM38L76		76			54			

Guides are sold in pairs. Each catalog number includes (2) Guides and (4) Screws.

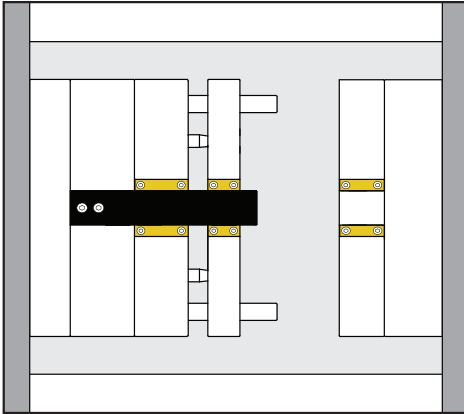
Note: 260°C max operating temperature.

Bars can be cut to length and have radii machined and Guides can be provided with radii machined. Refer to page C-6 for details.  
 Bars and Guides can also be made to customer specifications by referring to the template in section X.

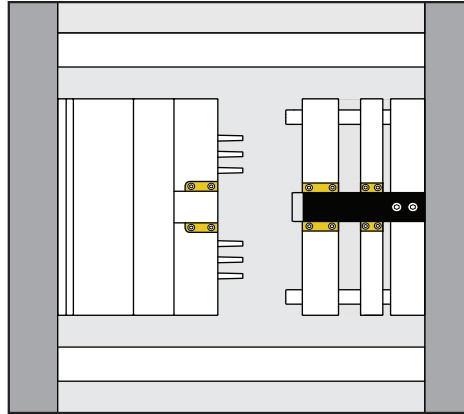
# BAR LOCKS APPLICATIONS



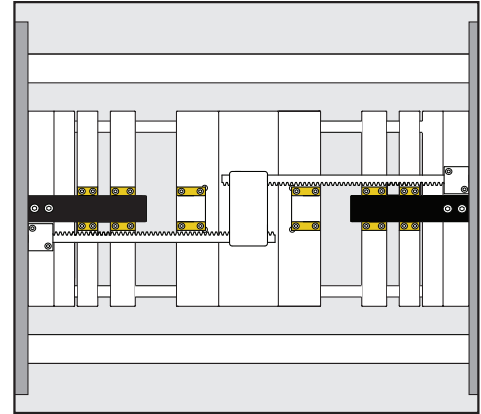
## Stripper Plate Application



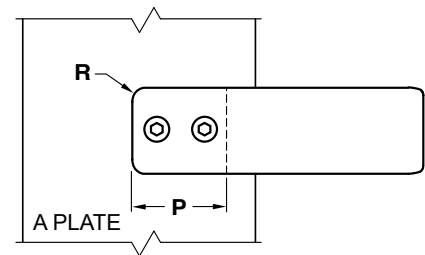
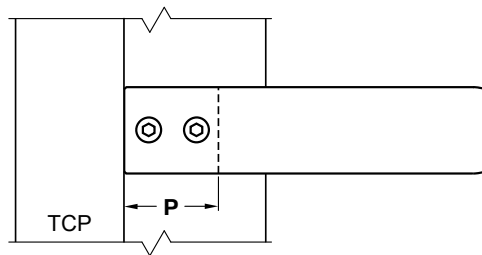
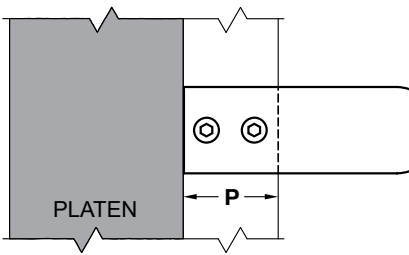
## Three Plate Application



## Stack Mold Application



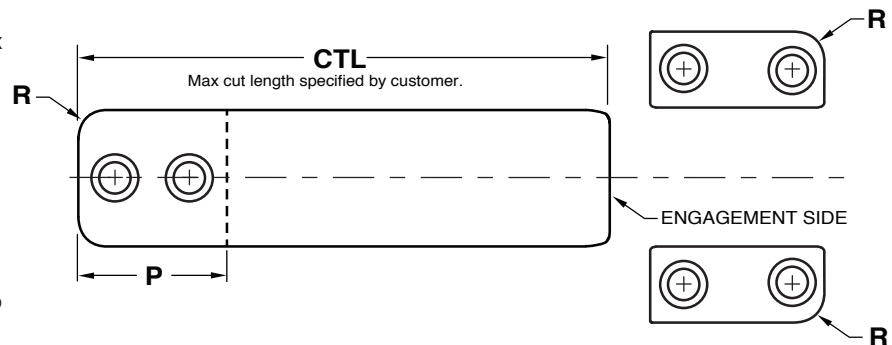
The minimum pocket length (P) is shown below in different applications. Refer to the information below for mold-ready options.



### How to Order:

- For Bars cut to length, specify the prefix of the Bar and the finished length. Ex. BLB100L4.56. (See max length in the chart below.)
- For Bars cut to length with pocket radii (sizes shown in the chart), specify the prefix of the Bar with the finished length and add -R to the end of the catalog number. Ex. BLB100L4.56-R.
- For Bars with pocket radii in standard lengths, specify the full catalog number of the Bar and add -R to the end. Ex. BLB100L6-R.
- For Guides with corner radii on both parts, add -R to the end of the catalog number. Ex. BLG150L2.8-R.

### MOLD-READY SPECIALS

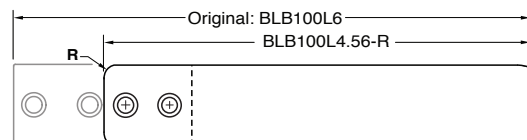


BAR CATALOG PREFIX	CTL Max	R Pocket Radius
BLB100	4.62	.25
BLB125	7.00	.31
BLB137	8.50	.37
BLB150	12.50	.50
BLBM25	89 mm	6 mm
BLBM32	114 mm	8 mm
BLBM38	194 mm	10 mm

GUIDE CATALOG PREFIX	R Pocket Radius
BLG100	.18
BLG125	.25
BLG137	.31
BLG150	.37
BLG250	.37
BLG350	.50
BLGM25	5 mm
BLGM32	6 mm
BLGM38	7 mm

### Design Guidelines:

- For Guides, the pocket radii are machined on opposing sides as shown above.
- Bar lengths are modified from standards and radii are machined on the pocket side to maintain the integrity of the material and treatment on the engagement side.



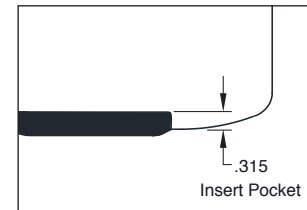
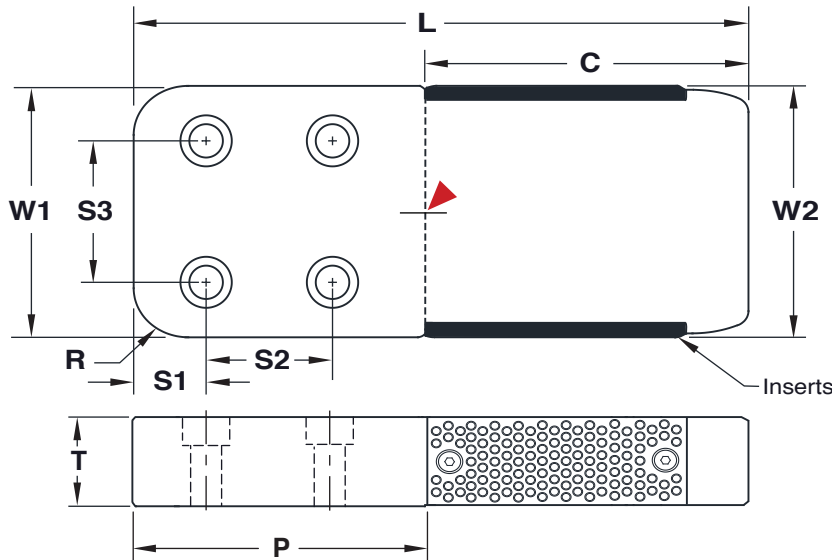
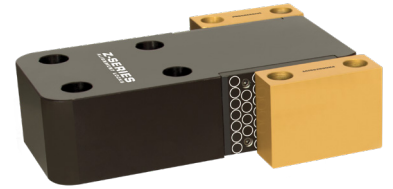




# BAR LOCKS Z-SERIES-INSERTED

Progressive's Inserted Bar Locks are engineered for long-term alignment of very large molds:

- Longevity that far surpasses others, confirmed by extensive independent lab testing as well as monitored performance in harsh, 'real world' conditions.
- Designed to align large injection molds up to 75,000 pounds (B-Side and platen).
- Inserts are also sold individually for new tooling or to retrofit onto existing molds.
- Guides are available in several lengths and sold separately on page C-5.



## MALE BAR LOCK ASSEMBLIES

Bar: **M** 4140 **H** Core: 36-40 HRC **S** Black Oxide

Inserts: **M** H-13 **H** Core: 42-48 HRC, Surface 70 HRC **S** Black Nitride

CAD insertion point

CATALOG NUMBER	T +0.00 -0.05	W1 +0.000 -0.0005	W2	L	C REF	S1 ±0.01	S2 ±0.01	S3 ±0.01	R Pocket Radius	P Minimum Pocket Length	SHCS
<b>BLN150L8</b>	1.500	4.000	4.000 +0.000/-0.002	7.75	3.75	1.00	2.000	2.250	.75	4.00	1/2-13 x 1.75
<b>BLN250L10</b>	2.500	5.000	5.000 +0.000/-0.002	10.38	5.00	1.25	3.250	3.250	1.00	5.38	5/8-11 x 2.75
<b>BLN350L13</b>	3.500	6.000	6.000 +0.000/-0.003	12.88	6.00	1.50	4.000	3.500	1.00	6.88	3/4-10 x 3.75

Each catalog number includes (1) Bar and (2) Inserts with screws. Guides are sold separately on page C-5.

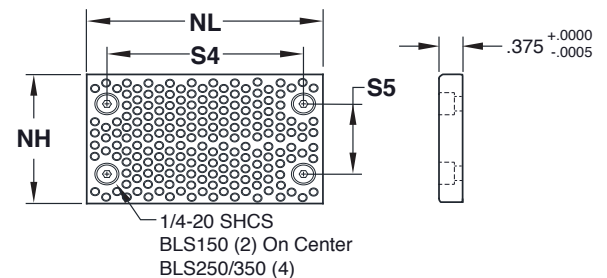
Note: 500°F max operating temperature.

Inserts: **M** H-13 **H** Core: 42-48 HRC, Surface 70 HRC **S** Black Nitride

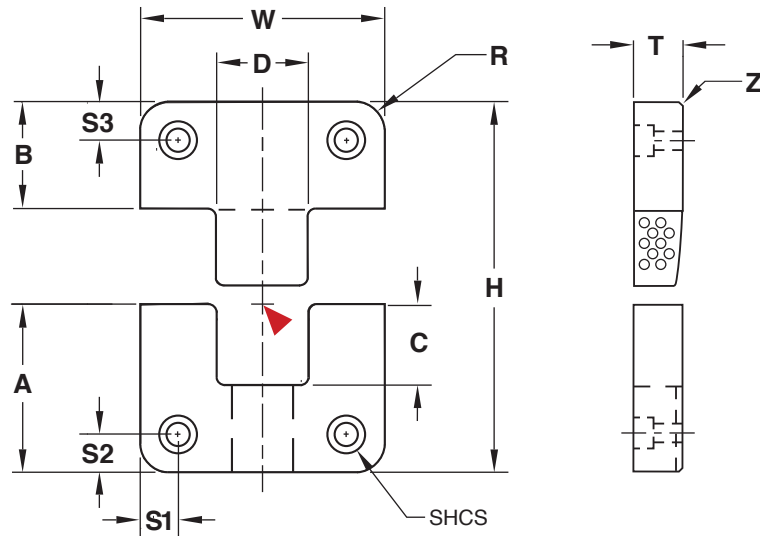
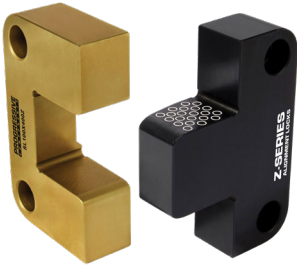
CATALOG NUMBER	NH +0.00 -0.05	NL +0.00 -0.02	S4 ±0.01	S5 ±0.01
<b>BLS150</b>	1.440	2.999	1.750	---
<b>BLS250</b>	2.440	3.999	2.250	1.500
<b>BLS350</b>	3.375	4.999	3.000	2.500

Inserts sold individually and include screws.

## INSERTS



# SIDE LOCKS Z-SERIES



### Inch Standard

Female: **M** D-2 **H** Core: 58-62 HRC, Surface: 80 HRC **S** Titanium Nitride Coated  
 Male: **M** H-13 **H** Core: 42-48 HRC, Surface: 70 HRC **S** Black Nitride

CAD insertion point

CATALOG NUMBER	T +0.00 -0.02	W +0.000 -0.004	A +0.00 -0.02	B +0.00 -0.02	C	D .0001/.0003 Clearance Per Side	H +0.00 -0.04	R Pocket Radius	S1/S2/S3 ±.01	Z Chamfer	SHCS
SL37X100	.375	1.000	1.125	.875	.62	.500	2.000	.187	.250	.015	#10-32 x 1/2"
SL50X125	.490	1.250	1.125	.875	.68	.500	2.000	.187	.250	.03	#8-32 x 5/8"
SL50X150	.500	1.500	.875	.875	.56	.563	1.750	.187	.250	.03	#8-32 x 5/8"
SL50X200	.500	2.000	1.375	.875	.86	.750	2.250	.187	.312	.03	#10-32 x 5/8"
SL75X300	.750	3.000	1.875	.875	1.18	1.250	2.750	.250	.375	.03	1/4-20 x 3/4"
SL100X400	1.000	4.000	2.375	1.375	1.43	1.500	3.750	.500	.500	.03	3/8-16 x 1"
SL125X500	1.250	5.000	2.875	1.375	1.75	2.000	4.250	.500	.625	.03	1/2-13 x 1-1/4"
SL150X600	1.500	6.000	2.875	1.375	1.87	2.500	4.250	.500	.625	.03	1/2-13 x 1-1/2"

Screws included.

### Inch Standard-Compatible

CATALOG NUMBER	T +0.00 -0.02	W +0.000 -0.004	A +0.00 -0.02	B +0.00 -0.02	C	D .0001/.0003 Clearance Per Side	H +0.00 -0.04	R Pocket Radius	S1 ±.01	S2 ±.01	S3 ±.01	Z Chamfer	SHCS
SLC62X150	.620	1.500	.870	.870	.41	.500	1.74	.187	.281	.281	.437	.03	1/4-20 x 3/4"
SLC62X200	.620	2.000	.870	.870	.41	.680	1.74	.187	.375	.375	.437	.03	1/4-20 x 3/4"
SLC75X300	.745	3.000	1.370	1.360	.68	1.000	2.73	.187	.375	.688	.688	.03	3/8-16 x 1"

Note: 500°F max operating temperature.

Screws included.

### Metric Standard

CATALOG NUMBER	T +0 -05	W +00 -01	A +00 -05	B +00 -05	C	D .002/.008 Clearance Per Side	H +0.0 -0.1	R Pocket Radius	S1 ±.25	S2/S3 ±.25	Z Chamfer	SHCS
SLM16X50	16	50	21.5	21.5	13	17	43	5	8	11	.8	M6-1.0 x 18
SLM19X75	19	75	36	36	22.5	25	72	5	12.5	18	.8	M10-1.5 x 20
SLM19X100	19	100	45	45	30	35	90	5	15	22	.8	M10-1.5 x 20
SLM25X125	25	125	45	45	28.7	35	90	5	20.5	22	.8	M10-1.5 x 25

Note: 260°C max operating temperature.

Screws included.

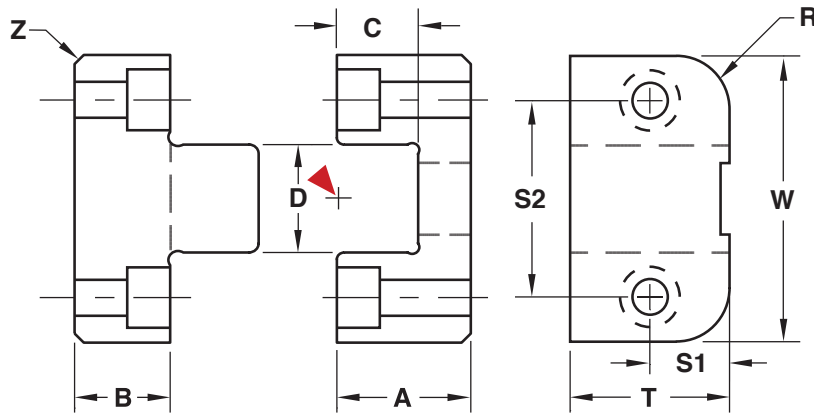
For custom Locks, refer to the templates in section X.

### Alternative Configurations:

- To order Shuttle Mold sets or special male/female configurations, refer to page C-11.



# TOP LOCKS Z-SERIES



▶ CAD insertion point



Female: **M** D-2 **H** Core: 58-62 HRC, Surface: 80 HRC **S** Titanium Nitride Coated  
 Male: **M** H-13 **H** Core: 42-48 HRC, Surface: 70 HRC **S** Black Nitride

**Inch Standard**

CATALOG NUMBER	T +.000 -.002	W +.0000 -.0004	A +.000 -.002	B +.000 -.002	C	D .0001/.0003 Clearance Per Side	S1 ±.01	S2 ±.01	R Pocket Radius	Z Chamfer	SHCS	
TL50X100	.500	1.000	.500	.375	.30	.375	.250	.688	.188	.03	M: #6-32 x 1/2"	F: #6-32 x 5/8"
TL62X125	.625	1.250	.625	.500	.41	.438	.312	.875	.250	.03	M: #6-32 x 5/8"	F: #6-32 x 3/4"
TL75X125	.750	1.250	.625	.500	.38	.438	.375	.875	.250	.04	M: #8-32 x 5/8"	F: #8-32 x 3/4"
TL87X150	.875	1.500	.875	.750	.57	.500	.437	1.000	.250	.04	M: #8-32 x 7/8"	F: #8-32 x 1"
TL100X150	1.000	1.500	.875	.375	.57	.500	.500	1.000	.250	.04	M: #10-32 x 1/2"	F: #10-32 x 1"
TL100X200	1.000	2.000	1.125	.750	.75	.750	.500	1.375	.375	.04	M: #10-32 x 7/8"	F: #10-32 x 1-1/8"
TL112X200	1.125	2.000	.875	.625	.50	.750	.563	1.375	.375	.04	M: 1/4-20 x 3/4"	F: 1/4-20 x 1"
TL112X300	1.125	3.000	1.500	.750	.87	1.125	.563	2.250	.500	.04	M: 1/4-20 x 7/8"	F: 1/4-20 x 1-5/8"
TL150X250	1.500	2.500	1.375	.625	.85	1.000	.750	1.750	.375	.04	M: 1/4-20 x 3/4"	F: 1/4-20 x 1-1/2"
TL175X300	1.750	3.000	1.250	.875	.75	1.125	.875	2.250	.500	.06	M: 5/16-18 x 1"	F: 5/16-18 x 1-1/4"
TL200X350	2.000	3.500	1.750	.750	1.07	1.500	1.000	2.500	.500	.06	M: 3/8-16 x 7/8"	F: 3/8-16 x 2"

Note: 500°F max operating temperature.

Screws included.

**Metric Standard**

CATALOG NUMBER	T +.00 -.05	W +.00 -.01	A +.00 -.05	B +.00 -.05	C	D .002/.008 Clearance Per Side	S1 ±.25	S2 ±.25	R Pocket Radius	Z Chamfer	SHCS	
TLM26X35	26	35	25	15	17	11	13	23	8	1	M: M5 x 16	F: M5 x 25
TLM30X45	30	45	25	15	17	15	15	30	8	1	M: M6 x 18	F: M6 x 25
TLM36X55	36	55	30	20	21.5	20	18	37.5	8	1	M: M8 x 22	F: M8 x 35
TLM36X75	36	75	35	20	26	30	18	52	8	1.5	M: M10 x 25	F: M10 x 35
TLM45X100	45	100	60	20	42	40	22.5	70	8	1.5	M: M10 x 25	F: M10 x 65

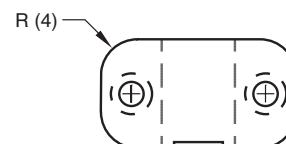
Note: 260°C max operating temperature.

Screws included.

For custom Locks, refer to the templates in section X.

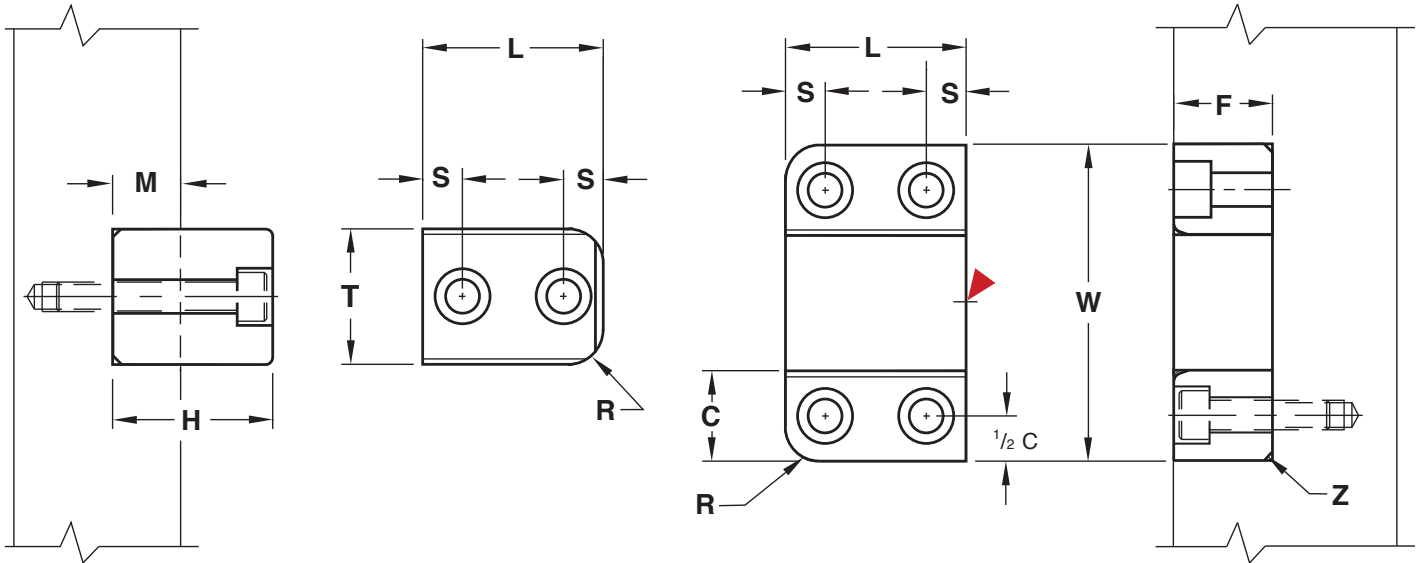
### Alternative Configurations:

- To order Top Locks with dual radii for mounting internally, specify the catalog number followed by "-R". Ex. TL112X300-R.
- To order Shuttle Mold sets or special male/female configurations, refer to page C-11.
- For information on the 20mm square size Top Lock, refer to page C-14.



# GUIDE LOCKS

## Z-SERIES



Females (2): **M** D-2 **H** Core: 58-62 HRC, Surface: 80 HRC **S** Titanium Nitride Coated  
 Male: **M** H-13 **H** Core: 42-48 HRC, Surface: 70 HRC **S** Black Nitride

### Inch Standard

CAD insertion point

CATALOG NUMBER	L +.000 -.010	W +.0003 +.0006	C +.0000 -.0003	F +.000 -.005	T +.0000 -.0003	M	H +.00 -.01	S ±.01	R Pocket Radius	Z Chamfer	SHCS	
GL100X150	1.000	1.500	.500	.500	.500	.375	.85	.25	.187	.03	M: #10-32 x 1"	F: #10-32 x 5/8"
GL150X250	1.500	2.500	.750	.750	1.000	.625	1.35	.31	.250	.06	M: 1/4-20 x 1-1/2"	F: 1/4-20 x 7/8"
GL200X350	2.000	3.500	1.000	1.000	1.500	.750	1.73	.44	.375	.06	M: 3/8-16 x 2"	F: 3/8-16 x 1-1/4"
GL250X450	2.500	4.500	1.250	1.250	2.000	.875	2.11	.56	.500	.09	M: 1/2-13 x 2-1/4"	F: 1/2-13 x 1-1/2"

Note: 500°F max operating temperature.

Screws included.

### Metric Standard

CATALOG NUMBER	L +.00 -.25	W +.008 +.015	C +.00 -.01	F +.00 -.12	T +.00 -.01	M	H +.0 -.2	S ±.25	R Pocket Radius	Z Chamfer	SHCS	
GLM25X45	25	45	15	15	15	10	24	7	4	1	M: M4 x 25	F: M4 x 14
GLM40X65	40	65	20	20	25	15	34	10	9	1.5	M: M5 x 35	F: M5 x 22
GLM50X90	50	90	25	25	40	20	44	10	9	1.5	M: M6 x 45	F: M6 x 30

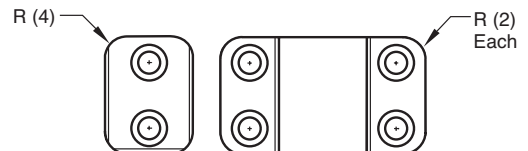
Note: 260°C max operating temperature.

Screws included.

For custom Locks, refer to the templates in section X.

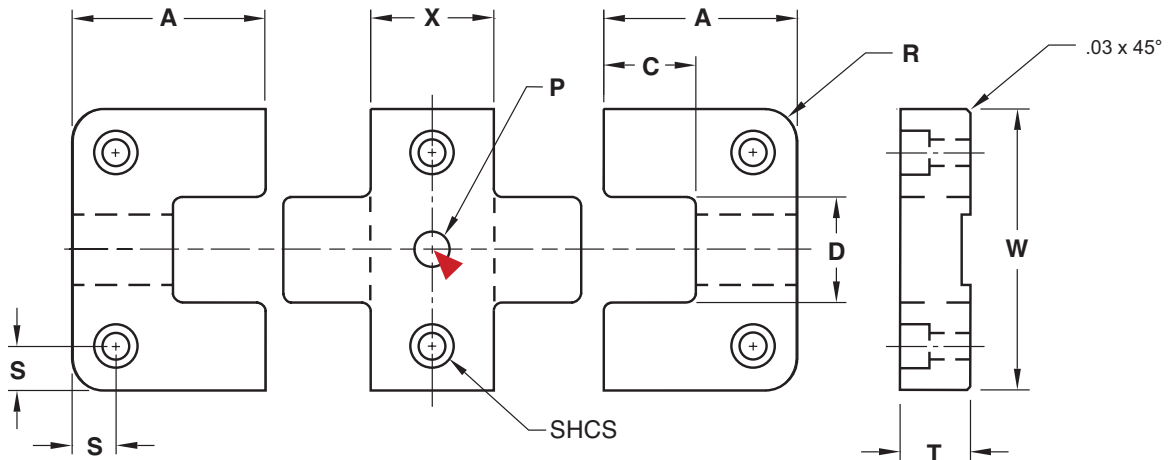
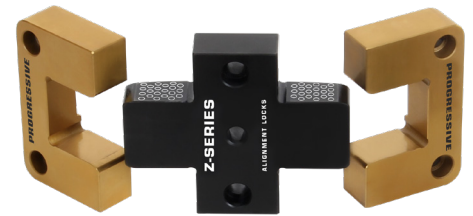
### Alternative Configurations:

- To order Guide Locks with dual radii for mounting internally, specify the catalog number followed by "-R". Ex. GL200X350-R.
- To order Shuttle Mold sets or special male/female configurations, refer to page C-11.





# X-STYLE SIDE LOCKS Z-SERIES



Females (2): **M** D-2 **H** Core: 58-62 HRC, Surface: 80 HRC **S** Titanium Nitride Coated  
 Male: **M** H-13 **H** Core: 42-48 HRC, Surface: 70 HRC **S** Black Nitride

CAD insertion point

CATALOG NUMBER	T +.000 -.002	W +.0000 -.0004	X +.000 -.002	A +.000 -.002	C ±.01	D .0001/.0003 Clearance Per Side	R Pocket Radius	S ±.01	P +.001 -.000	SHCS
SLX50X87	.500	2.000	.875	1.375	.87	.750	.187	.312	.250	#10-32 x 5/8"
SLX75X137	.750	3.000	1.375	1.875	1.18	1.250	.250	.375	.313	1/4-20 x 3/4"
SLX75X187	.750	3.000	1.875	1.875	1.18	1.250	.250	.375	.313	1/4-20 x 3/4"
SLX100X137	1.000	4.000	1.375	2.375	1.43	1.500	.500	.500	.375	3/8-16 x 1"

Note: 500°F max operating temperature.

Screws included.

For custom Locks, refer to the templates in section X.

## SHUTTLE MOLD SETS

Examples of Shuttle Mold configurations:

### 2 Female Inserts : 1 Male Insert

To order, specify "-SF" after the catalog number of the lock.  
 Examples: SL50X200-SF GL100X150-SF TL75X125-SF TL50X100-R-SF  
 CF31X62-SF CRSM08-SF

### 2 Male Inserts : 1 Female Insert

To order, specify "-SM" after the catalog number of the lock.  
 Example: SL75X300-SM GL250X450-SM TL112X200-SM TL150X250-R-SM  
 CF31X62-SM CRSM08-SM

Individual males and females and special configurations (Ex. 4M:1F) are available.  
 Contact Customer Service for pricing and availability.

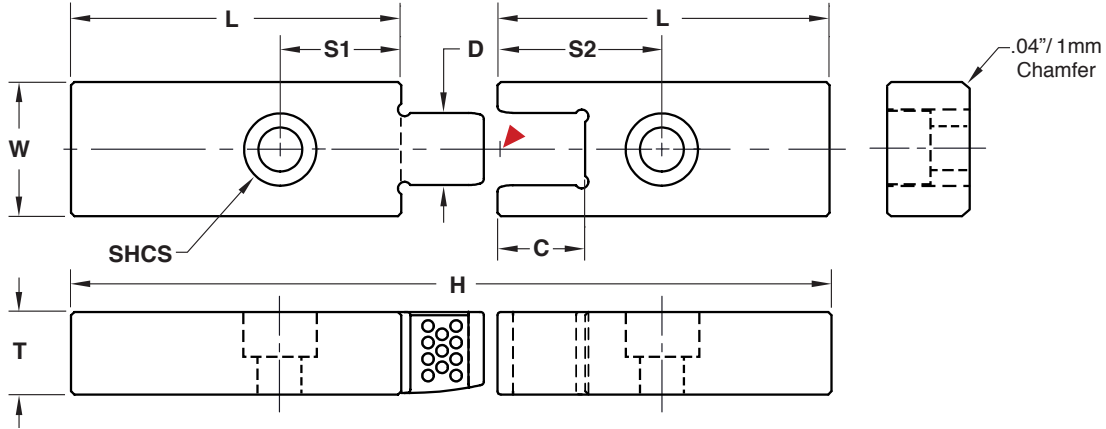


# CAVITY INTERLOCKS

## FLAT SERIES



Flat Cavity Interlocks are a space-saving design for mounting directly within a mold's inserts. The overall lengths are sized for nominal plate thicknesses and can be modified for smaller insert heights.



### Inch Standard

Male: **M** H-13 **H** Core: 42-48 HRC, Surface: 70 HRC **S** Black Nitride

Female: **M** DC53 **H** Core: 58-62 HRC, Surface: 80 HRC **S** Titanium Nitride Coated



CATALOG NUMBER	T +.000 -.002	W +.0000 -.0002	L +.000 -.002	C	D .0001/.00025 Clearance Per Side	H +.000 -.004	S1 ±.01	S2 ±.01	SHCS
CF31X62	.312	.625	1.875	.343	.312	3.750	.688	.688	#8-32 x 3/8"
CF50X87	.500	.875	2.875	.530	.438	5.750	1.000	1.000	1/4-20 x 5/8"

Note: 500°F max operating temperature.

Screws included.

### Metric Standard

Male: **M** H-13 **H** Core: 42-48 HRC, Surface: 70 HRC **S** Black Nitride

Female: **M** DC53 **H** Core: 58-62 HRC, Surface: 80 HRC **S** Titanium Nitride Coated

CATALOG NUMBER	T +.00 -.05	W +.000 -.005	L +.00 -.05	C	D .003/.006 Clearance Per Side	H +.0 -.1	S1 ±.25	S2 ±.25	SHCS
CFM08X16	8	16	46	8.8	8	92	12.5	20	M4-0.7 x 10
CFM12X20	12	20	66	12.8	12	132	18.5	30	M6-1.0 x 14

Note: 260°C max operating temperature.

Screws included.

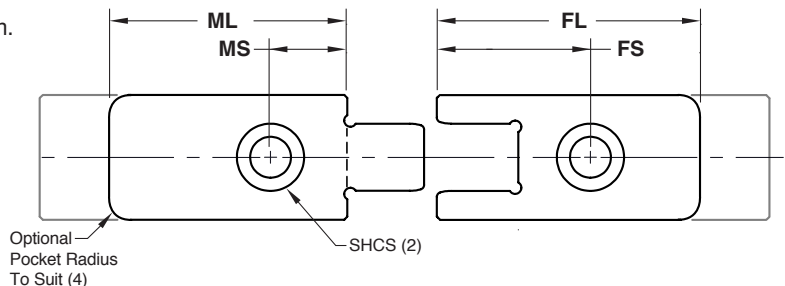
### Alternative Configurations:

- To order Shuttle Mold sets or special male/female configurations, refer to page C-11.

### MOLD-READY INTERLOCKS

Progressive can supply Flat Cavity Interlocks complete with screw hole locations and lengths modified to suit your application. To order, specify the item code that will be modified from the charts above, and provide the following to Customer Service:

- ML=Male Length (must be less than "L" above.)
- MS=Male Screw Location (Will be on center.)
- FL=Female Length (must be less than "L" above.)
- FS=Female Screw Location (Will be on center.)
- Pocket Radius: If required, add "-R" to the specification. (Radius is designed to suit Interlock size.)



Note: Screw size will be the same as within the standards.

Any specifications outside of the modifications above can be quoted made-to-order by contacting tech@procomps.com.



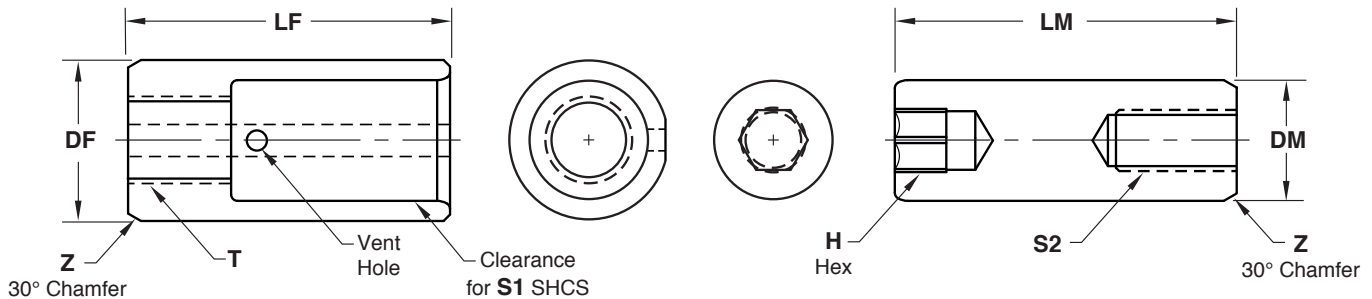


# CAVITY INTERLOCKS

## ROUND SERIES

Round Cavity Interlocks are offered in small diameters to enable mounting within a mold's inserts. The design features the maximum amount of straight alignment engagement for the minimum amount of pocket depth required.

- Can be mounted from parting line or bolted from the back of the inserts.
- Vent hole and flat provided on female insert.



Female: **M** H-13 **H** Core: 42-48 HRC, Surface: 70 HRC **S** Black Nitride

Male: **M** DC53 **H** Core: 58-62 HRC, Surface: 80 HRC **S** Titanium Nitride Coated

**Inch Standard**

CATALOG NUMBER	DM -.0001 -.0002	DF +.0000 -.0002	LF +.000 -.002	LM +.000 -.002	PM	E	Z	S1 SHCS Size	T Thread	S2 Set Screw Size	H
CRS250	.2500	.3750	.687	.812	.500	.23	.03	#6-32 x 3/8"	#10-32	#6-32 x 1/2	1/8
CRS375	.3750	.5000	1.000	1.062	.625	.36	.04	#10-32 x 5/8"	1/4-20	#10-32 x 5/8	3/16
CRS500	.5000	.6250	1.375	1.375	.750	.51	.04	1/4-20 x 7/8"	5/16-18	1/4-20 x 3/4	3/16

Note: 500°F max operating temperature.

Socket Head Cap Screw & Set Screw included.

Female: **M** H-13 **H** Core: 42-48 HRC, Surface: 70 HRC **S** Black Nitride

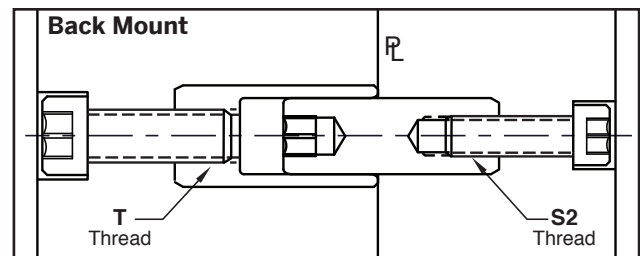
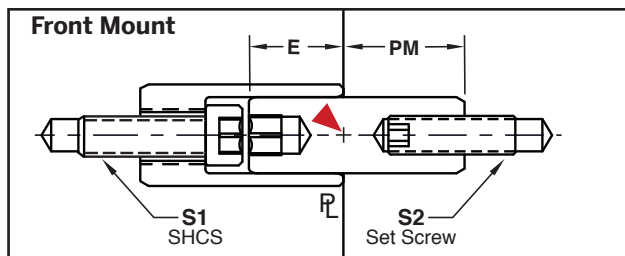
Male: **M** DC53 **H** Core: 58-62 HRC, Surface: 80 HRC **S** Titanium Nitride Coated

**Metric Standard**

CATALOG NUMBER	DM -.002 -.006	DF +.000 -.005	LF +.0 -.1	LM +.0 -.1	PM	E	Z	S1 SHCS Size	T Thread	S2 Set Screw Size	H
CRSM06	6	8	16	18	10	6	.3	M3-0.5 x 8	M4-0.7	M4-0.7 x 12	3
CRSM08	8	12	20	24	14	8	.3	M4-0.7 x 10	M5-0.8	M5-0.8 x 16	4
CRSM10	10	14	22	26	14	10	.3	M4-0.7 x 10	M5-0.8	M6-1.0 x 16	5
CRSM12	12	16	30	32	17	13	.5	M6-1.0 x 16	M8-1.25	M6-1.0 x 16	5

Note: 260°C max operating temperature.

Socket Head Cap Screw & Set Screw included.



▶ CAD insertion point

### Installation Guidelines:

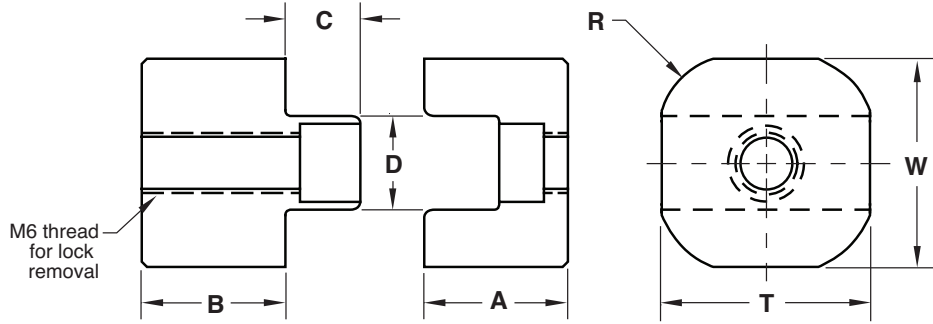
- Diameter (DF & DM) Machining Tolerances: Inch: +.0002" / Metric: +.005mm
- Maximum chamfer size should be .02" / .5mm on counterbore.
- Maximum clearance between female and male insert is .0006" / .015mm total.
- The fasteners provided are for parting line installation shown in the graphic above left. For bolting in back, the mold maker will select fasteners to accommodate insert thickness.
- When installing, limit torque specifications according to the chart at right.

### Alternative Configurations:

- To order Shuttle Mold sets or special male/female configurations, refer to page C-11.

ITEM NUMBER	TORQUE
CRS250 CRSM06	25 IN LB
CRS375	75 IN LB
CRS500	195 IN LB
CRSM08	58 IN LB
CRSM10 CRSM12	140 IN LB

# TOP LOCK-20MM SQUARE Z-SERIES

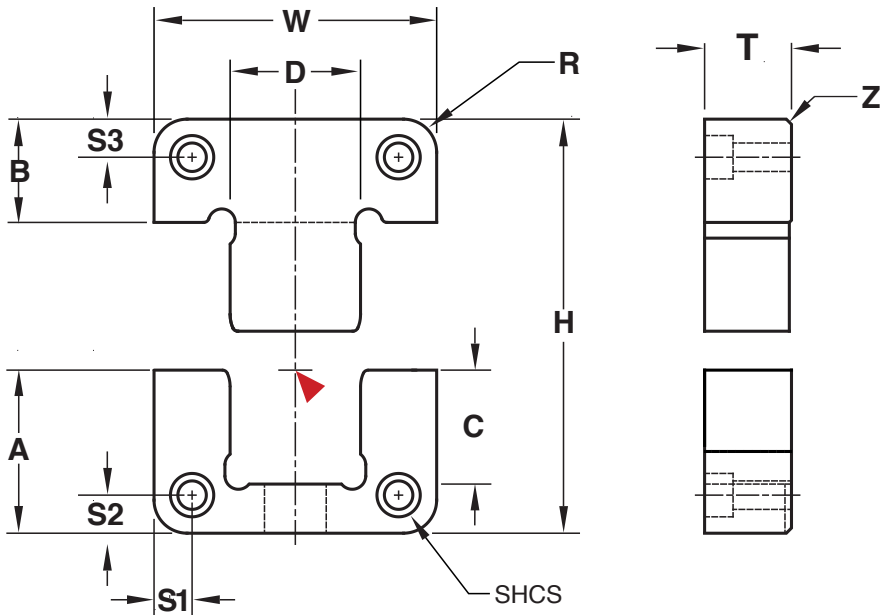
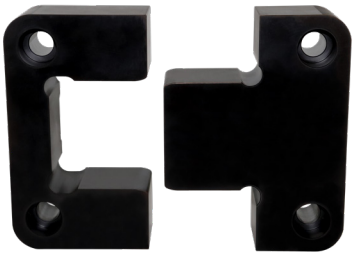


Female: **M** D-2 **H** Core: 58-62 HRC, Surface: 80 HRC **S** Titanium Nitride Coated  
 Male: **M** H-13 **H** Core: 42-48 HRC, Surface: 70 HRC **S** Black Nitride

CATALOG NUMBER	T +0.00 -0.05	W +0.00 -0.01	A +0.00 -0.05	B +0.00 -0.05	C	D .002/.008 Clearance Per Side	S1 ±.25	S2 ±.25	R Pocket Radius	Z Chamfer	SHCS
TLM20X20	20	20	14	14	7	9	Center	Center	5	1	M: M4 x 25 F: M4 x 10

# SIDE LOCK BLACK NITRIDE SERIES

Progressive's Die Cast Side Locks are sized for resistance to deflection, and the large landing area improves casting precision.



**M** H-13 **H** Core: 42-48 HRC, Surface: 66-70 HRC **S** Black Nitride

▶ CAD insertion point

CATALOG NUMBER	T +0.000 -0.002	W +0.0000 -0.0004	A +0.000 -0.002	B +0.000 -0.002	C	D .0004/.001 Clearance Per Side	H +0.000 -0.004	R Pocket Radius	S1/S2/S3 ±.01	Z Chamfer	SHCS
SL200X650-BN	2.000	6.500	3.750	2.374	2.62	3.000	6.125	.750	.875	.12	5/8-11 x 2.25"

Screws included.



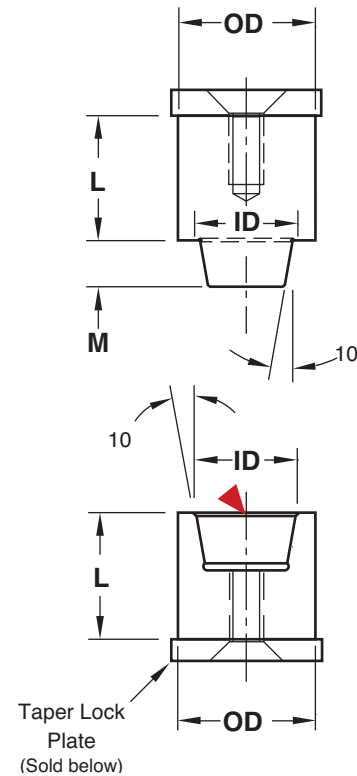
# TAPER LOCKS



**M** H-13 **H** 48-52 HRC

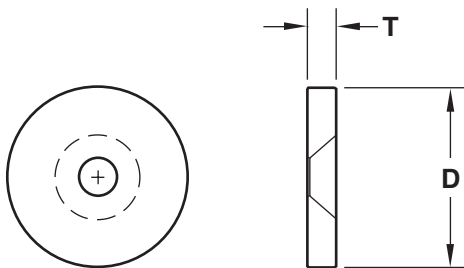
CAD insertion point

O.D. +.0000 -.0003	I.D.	M	Thread Size	L +.004 +.008	MALE CATALOG NUMBER	FEMALE CATALOG NUMBER
<b>1/2</b>	.312	.250	#10-24	11/16	MTL50L.68	FTL50L.68
				7/8	MTL50L.87	FTL50L.87
				1-3/16	MTL50L1.18	FTL50L1.18
				1-3/8	MTL50L1.37	FTL50L1.37
<b>3/4</b>	.500	.281	1/4-20	11/16	MTL75L.68	FTL75L.68
				7/8	MTL75L.87	FTL75L.87
				1-3/16	MTL75L1.18	FTL75L1.18
				1-3/8	MTL75L1.37	FTL75L1.37
<b>1</b>	.625	.343	1/4-20	11/16	MTL100L.68	FTL100L.68
				7/8	MTL100L.87	FTL100L.87
				1-3/16	MTL100L1.18	FTL100L1.18
				1-3/8	MTL100L1.37	FTL100L1.37
<b>1-1/2</b>	1.000	.500	5/16-18	1-1/8	MTL150L1.12	FTL150L1.12
				1-3/8	MTL150L1.37	FTL150L1.37
				1-5/8	MTL150L1.62	FTL150L1.62
				1-1/8	MTL200L1.12	FTL200L1.12
<b>2</b>	1.500	.500	5/16-18	1-3/8	MTL200L1.37	FTL200L1.37
				1-5/8	MTL200L1.62	FTL200L1.62



# TAPER LOCK PLATES

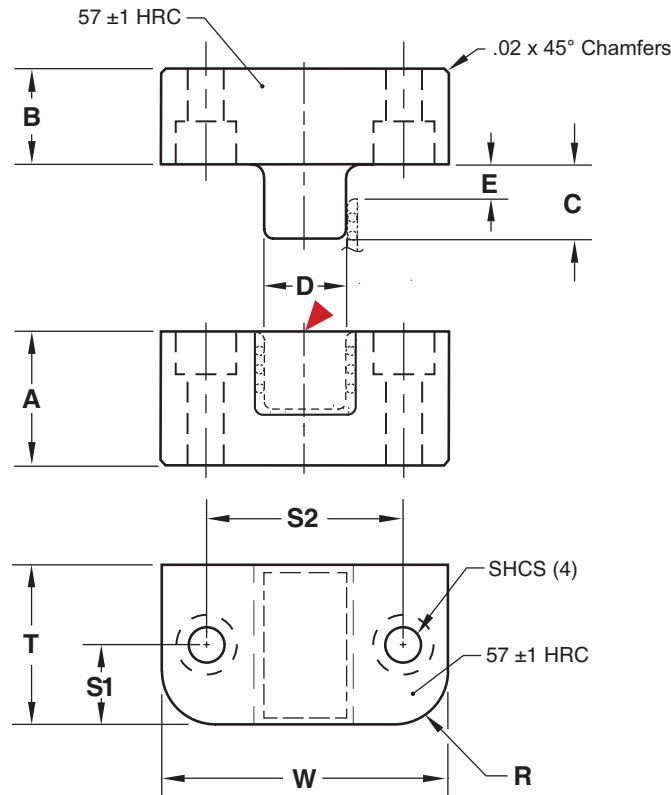
**M** AISI 52100 **H** 57-61 HRC **S** Black Oxide



CATALOG NUMBER	Taper Lock OD	D +.000 -.015	T +.000 -.002	Flat Head Counterbore
<b>TLP50</b>	1/2	.687	.187	#10-24
<b>TLP75</b>	3/4	1.000	.187	1/4-20
<b>TLP100</b>	1	1.187	.187	1/4-20
<b>TLP150</b>	1-1/2	1.687	.250	5/16-18
<b>TLP200</b>	2	2.187	.250	5/16-18

1/2" long FHCS included.

# TOP LOCKS NEEDLE BEARING



**Inch Standard**

**M** O-2 **H** 56-58 HRC **S** Black Oxide

CAD insertion point

CATALOG NUMBER	T +.000 -.005	W +.0002 -.0000	W Pocket Width +.0005 -.0000	A +.000 -.005	B +.000 -.005	C	D	E	S1 ±.01	S2 ±.01	R Pocket Radius	SHCS
TLR87X150	.875	1.4995	1.500	1.375	.750	.66	.550	.225	.438	1.143	.250	M: #8-32 x 7/8" F: #8-32 x 1-1/2"
TLR112X200	1.125	1.9995	2.000	1.375	.625	.62	.660	.425	.563	1.375	.375	M: 1/4-20 x 3/4" F: 1/4-20 x 1-1/2"
TLR150X250	1.500	2.4995	2.500	1.375	.625	.62	.900	.400	.750	1.750	.375	M: 1/4-20 x 3/4" F: 1/4-20 x 1-1/2"
TLR150X250-L	1.500	2.4995	2.500	1.875	.875	1.02	1.015	.350	.750	1.875	.375	M: 1/4-20 x 1" F: 1/4-20 x 2"

Note: Cages are resin on all Needle Bearing Top Locks.

Screws included.

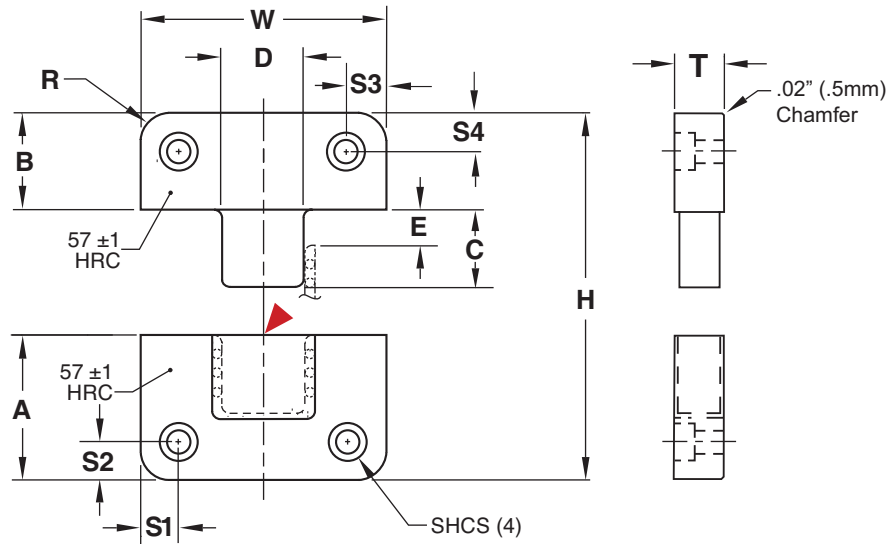
**Technical Information:**

- Zero clearance between male and female (D) dimensions.
- Bearings: 64 HRC
- Maximum Mold Temperature: 300° F (150° C)
- Engagement occurs at E dimension shown.
- Locks are to be mounted in the mold base and not in the core or cavity inserts.
- For optimal performance, pockets are to be machined to nominal "W" pocket width dimensions in each table. If replacing locks in existing pockets, ensure .0004" clearance, and the lock may be modified to suit.
- As with other mold mechanisms, clean and maintain locks at the mold's scheduled PMs.





# SIDE LOCKS NEEDLE BEARING



## Inch Standard

**M** 0-2 **H** 56-58 HRC **S** Black Oxide

▶ CAD insertion point

CATALOG NUMBER	T +0.00 -.005	W ±.0002	W Pocket Width +0.0005 -.0000	A +0.00 -.005	B +0.00 -.005	C	D	E	H +0.00 -.004	R Pocket Radius	S1 ±.01	S2 ±.01	S3 ±.01	S4 ±.01	SHCS
SLR50X125	.500	1.2495	1.250	1.375	.875	.66	.412	.210	2.250	.187	.171	.250	.171	.437	#8-32 x 5/8"
SLR50X150	.500	1.4995	1.500	.875	.875	.40	.500	.210	1.750	.187	.250	.250	.250	.250	#8-32 x 5/8"
SLR50X150-L	.500	1.4995	1.500	1.375	.875	.66	.550	.250	2.250	.187	.182	.376	.182	.500	#8-32 x 5/8"
SLR50X200	.500	1.9995	2.000	1.375	.875	.66	.750	.325	2.250	.187	.312	.312	.312	.312	#10-32 x 5/8"
SLR75X300	.750	2.9995	3.000	1.875	.875	.95	1.188	.575	2.750	.250	.375	.375	.375	.375	1/4-20 x 3/4"
SLR100X400	1.000	3.9995	4.000	2.375	1.375	1.34	1.855	.450	3.750	.500	.500	.500	.500	.500	3/8-16 x 1-1/8"

For technical information, refer to page C-16.

Screws included.

Note: Cages are manufactured from resin on all sizes except SLR100X400, which has an aluminum cage.

## Metric Standard

**M** 0-2 **H** 56-58 HRC **S** Black Oxide

CATALOG NUMBER	T +0.0 -.12	W ±.005	W Pocket Width +0.012 -.000	A +0.0 -.12	B +0.0 -.12	C	D	E	H +0.0 -.01	R Pocket Radius	S1 ±.25	S2 ±.25	S3 ±.25	SHCS
SLRM32X63	32	62.9	63	46	46	27	21	12.1	92	8	9	11	35	M8-1.25 x 35
SLRM40X100	40	99.9	100	66	66	36	33	19.5	132	10	13	18	48	M12-1.75 x 45

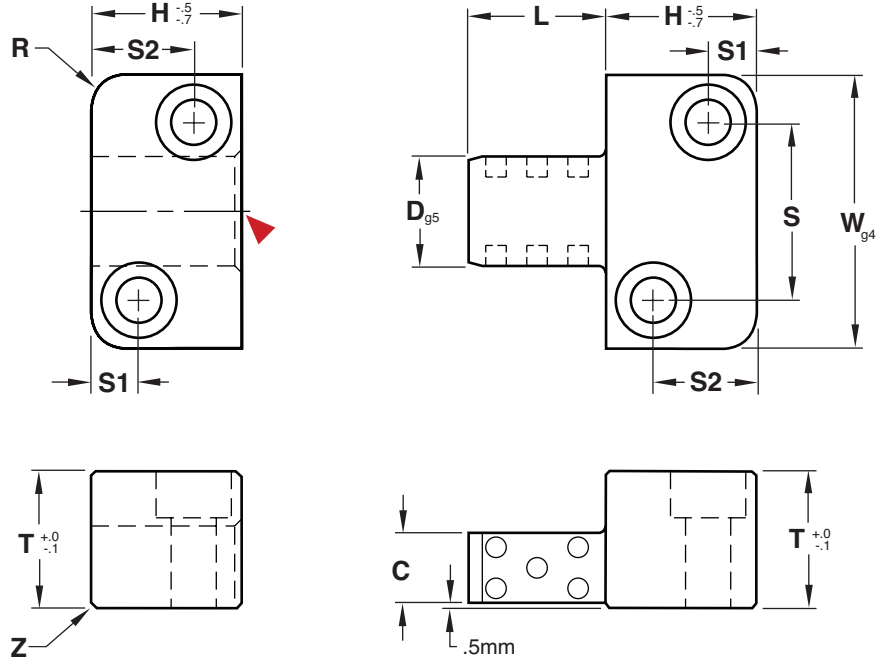
For technical information, refer to page C-16.

Screws included.

Note: Cages are manufactured from aluminum on all sizes of metric standard locks.

# SIDE LOCKS

## GRAPHITE PLUGGED



### Metric Standard

**M** 0-2 **H** 56-60 HRC

CAD insertion point

CATALOG NUMBER	L	D	T	W	C	H	S1	S2	S	R	Z	Screw Size
SLPM16X20	20	16	20	40	11	22	7	15	26	6	1	M6-1.0 x 25
SLPM16X40	40											
SLPM20X25	25	20	22	45	13	27	7	19	31	6	1	M6-1.0 x 25
SLPM20X50	50											
SLPM25X32	32	25	25	50	14	36	9	27	35	8	1	M6-1.0 x 30
SLPM25X63	63											
SLPM32X40	40	32	32	63	19	46	11	35	45	8	1	M8-1.25 x 35
SLPM32X80	80											
SLPM40X50	50	40	36	85	22	56	15	40	60	10	1.5	M10-1.5 x 40
SLPM40X100	100											
SLPM50X56	56	50	40	100	24	66	18	48	74	10	1.5	M12-1.75 x 45
SLPM50X112	112											

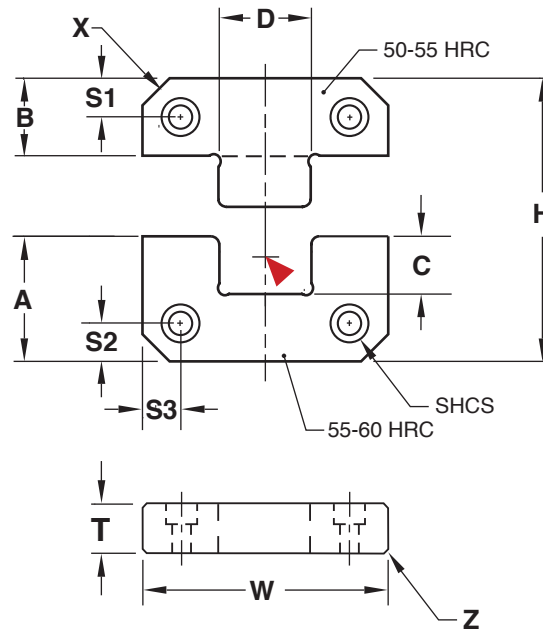
Using grease will inhibit the function of the graphite plugs.  
Instead, use a light 20 weight oil at startup to begin lubrication.

Screws included.





# SIDE LOCKS



Female: **M** O-2 **H** 55-60 HRC

Male: **M** O-2 **H** 50-55 HRC

**Inch Standard**

CAD insertion point

CATALOG NUMBER	T +.000 -.002	W +.0000 -.0004	A +.0000 -.0008	B +.0000 -.0008	C	D .0001/.0003 Clearance Per Side	H +.000 -.002	X Corner Chamfer	Z Chamfer	S1 ±.01	S2 ±.01	S3 ±.01	SHCS
SLS62X150	.620	1.500	.870	.870	.33	.500	1.74	.19	.02	.437	.281	.281	1/4-20 x 3/4"
SLS62X200	.620	2.000	.870	.870	.33	.680	1.74	.19	.04	.437	.375	.375	1/4-20 x 3/4"
SLS75X300	.745	3.000	1.370	1.360	.57	1.000	2.73	.38	.04	.688	.688	.375	3/8-16 x 1"
SLS75X400	.745	4.000	1.870	1.870	.79	1.375	3.74	.50	.04	.875	.875	.625	3/8-16 x 1"
SLS112X500	1.120	5.000	1.870	1.870	.79	1.750	3.74	.50	.04	.875	.875	.750	1/2-13 x 1-1/4"

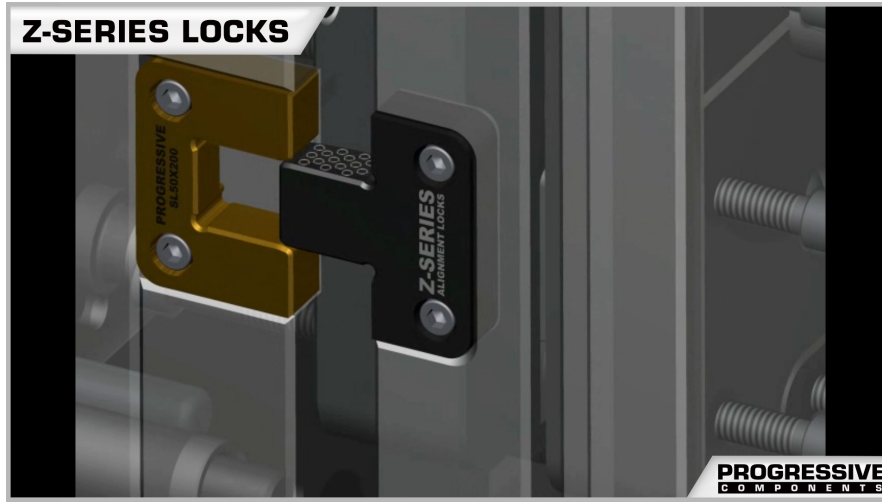
Screws included.

## Metric Standard

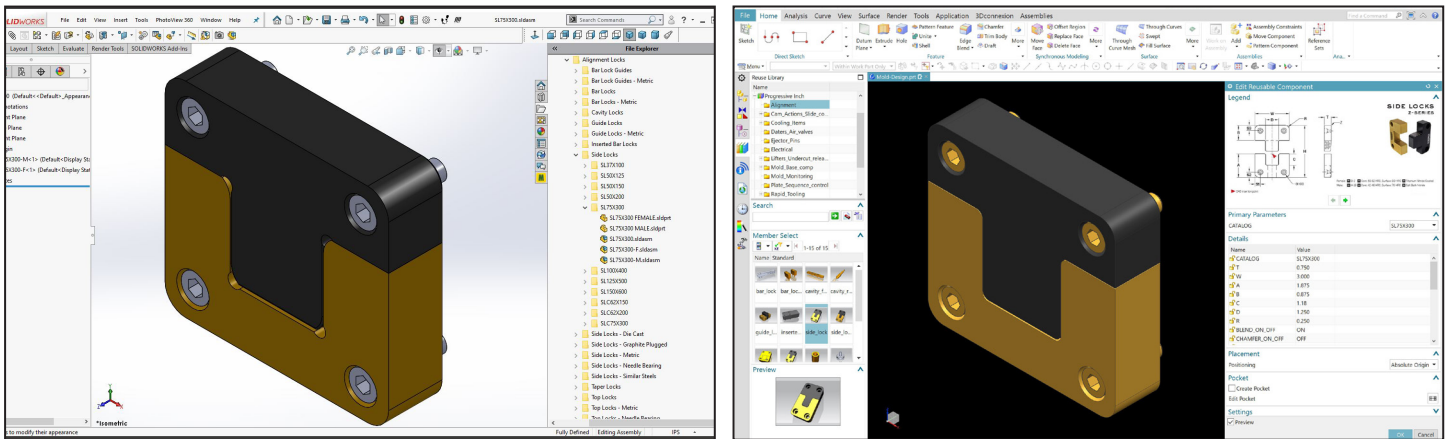
CATALOG NUMBER	T +.00 -.05	W +.00 -.01	A +.00 -.02	B +.00 -.02	C	D .002/.008 Clearance Per Side	H +.00 -.04	X Corner Chamfer	Z Chamfer	S1/S2 ±.25	S3 ±.2	SHCS
SLMS13X38	13	38	22	22	8.5	12	44	5	.5	7	8	M5-.8 x 15
SLMS16X50	16	50	21.5	21.5	9.5	17	43	5	1	11	8	M6-1.0 x 18
SLMS19X75	19	75	36	36	15	25	72	8	1	18	12.5	M10-1.5 x 20
SLMS19X100	19	100	45	45	21	35	90	10	1	22	15	M10-1.5 x 20
SLMS25X125	25	125	45	45	21	45	90	10	1	22	20.5	M10-1.5 x 25

Screws included.

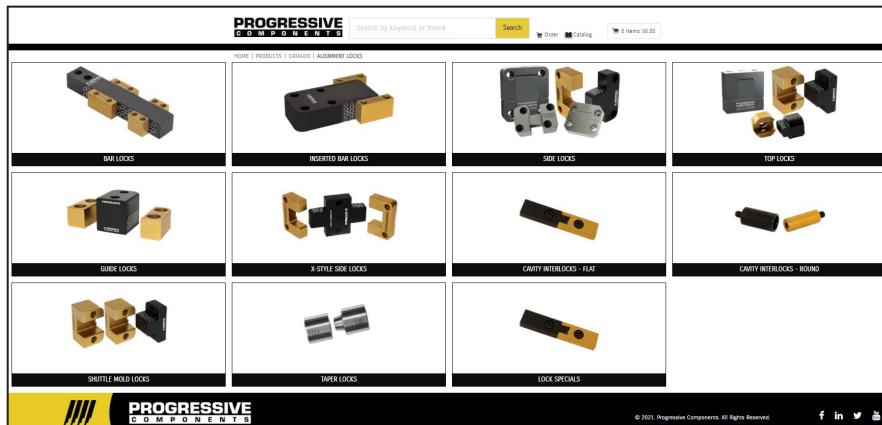
# ONLINE RESOURCES



When considering design options, numerous animations can be viewed at [procomps.com/animations](http://procomps.com/animations).



CAD geometry is available online as individual downloads or as part of the CADalog system. The seven formats include: IGES (.igs), ACIS (.sat), STEP (.step), Parasolid (.x\_t), SolidWorks (.sldasm), NX (.prt) (Re-Use and MoldWizard) and Visi (.wkt).



Industry-leading web store expedites the purchasing process. Go to [shop.procomps.com](http://shop.procomps.com) for information and additional resources.

