



 **Lamina Components — Flat Products**



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Lamina, Inc. began as a lamination die manufacturer in 1938. During the years from 1938 to the present Lamina has evolved into a manufacturer and distributor of die and mold components. Even though we no longer make dies, we do understand the die and mold maker's needs and objectives.

We have made it our business to supply quality products in a timely manner at a reasonable price. We know how to compete in the marketplace and supply you with the products you need when you need them.

With the introduction of this catalog featuring sliding guide components for molds, we bring you a wider selection of wear products than in the past. It is our purpose to help you become more productive by helping to eliminate your downtime. With the products in stock, we will become your one-stop supplier and deliver the products you require each and every day.

Our catalog is presented in an easy-to-read format that will display the selection of products you need without a lot of extra data.

BRONZE-PLATED WEAR STRIPS & GIBS

Bronze-Plated Wear Strips & Gibs are made from C1018 extra fine grain cold drawn steel electroplated with a bronze alloy consisting of approximately 89% copper and 11% tin. The hardness is 180 BHn minimum. Lamina Bronze Plating has a natural lubricity and is ideal when used against hardened steel. We recommend any good grade of light machine oil suitable for machine way applications to extend the life of the wear surface.

The thickness of the bronze is .008 to .010". By using this thickness the bronze does not funnel out under heavy loads. The strength of steel backing keeps surface distortion to a minimum. Because most precision tool slide applications require either reworking or replacement if they develop so much as a .003 wear, Lamina Bronze thickness is more than adequate.

The superior wear properties of Lamina Bronze is not affected in working temperatures up to 400° F.

- Precision Machining on L-Gibs
- Precision ground sliding surface on wearstrips
- Close tolerances
- Consistent quality control
- Low friction: Co-efficient of friction .2518
- Load factor 2700 PSI
- No galling or snow balling
- Magnetic - can be held on magnetic chuck
- Non-abrasive
- Non Seizing

ALUMINUM BRONZE SELF-LUBRICATING WEAR STRIPS & GIBS

Aluminum Bronze Self-Lubricating wear strips and gibs are made from ASTM-C95400 continuous cast aluminum bronze with self-lubricating graphite plugs. These products can be used in applications up to 450° F (232°C).

C95400 aluminum bronze is a hard (170 BHn min.), strong material that resists wear, abrasion and deformation under high compressive loads.

Oil-impregnated graphite plugs cover 25-30% of the wear surface, providing a self lubricating film of graphite on the wear surface.

Applying a film or mist of light machine oil on new self-lubricating parts before use, will enhance the self-lubricating properties. (Do not use grease on graphite-plugged surfaces).

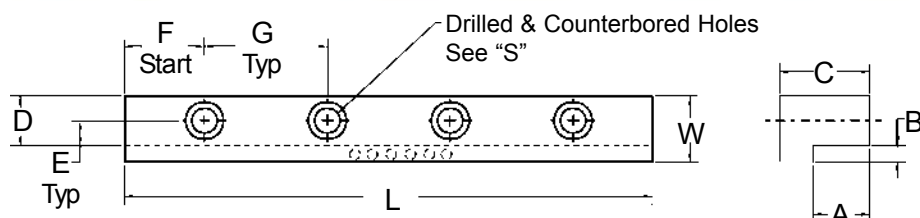
- Precision Machining on L-Gibs
- Self Lubricating
- Precision ground wear surfaces on wearstrips
- Close tolerances
- Consistent quality control
- Resists abrasion
- Excellent wear characteristics



We would also like to remind you that these parts run best and last longer in a clean environment.



L-Gibs – Inch Bronze Plated



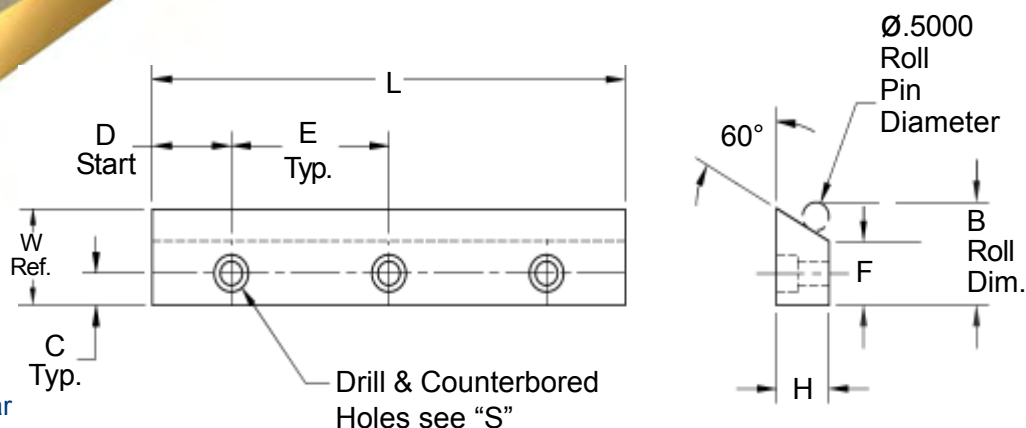
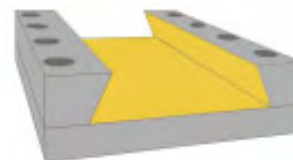
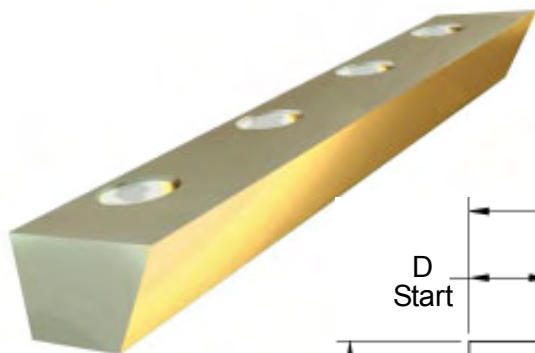
Standard L-Gibs with and without mounting holes
 Self Lubricating L-Gibs with and without mounting holes

Hole location $\pm .005$
 Unless noted all Dimensions $\pm .010$

L-GIBS – INCH – BRONZE-PLATED – PLAIN & SELF-LUBRICATING													
PART NUMBER	PART NUMBER (Self Lube)	L	W +.000 –.005	A GH	B GW	C +.000 –.005	D	E	F	G	S		
				+.001 –.000							Qty.	Size	
L-4-6-3	N/A	5.25	.75	.312	.188	.485	.562	.281	.875	1.750	3	1/4"	
L-4-6-4	N/A	7.00									4		
L-4-6-5	SLL-4-6-5	8.75									5		
L-4-6-5-NH	SLL-4-6-NH	8.75									NO MOUNTING HOLES		
L-5-8-3	N/A	6.00	1.00	.375	.250	.610	.750	.375	1.000	2.000	3	5/16"	
L-5-8-4	N/A	8.00									4		
L-5-8-5	SLL-5-8-5	10.00									5		
L-5-8-5-NH	SLL-5-8-NH	10.00									NO MOUNTING HOLES		
L-7-10-3	N/A	7.50	1.25	.500	.375	.860	.875	.437	1.250	2.500	3	3/8"	
L-7-10-4	N/A	10.00									4		
L-7-10-5	SLL-7-10-5	12.50									5		
L-7-10-5-NH	SLL-7-10-NH	12.50									NO MOUNTING HOLES		
L-10-12-3	N/A	9.00	1.50	.750	.500	1.235	1.000	.500	1.500	3.000	3	3/8"	
L-10-12-4	N/A	12.00									4		
L-10-12-5	SLL-10-12-5	15.00									5		
L-10-12-5-NH	SLL-10-12-NH	15.00									NO MOUNTING HOLES		
L-12-16-4	N/A	16.00	2.00	.875	.625	1.470	1.375	.687	2.000	4.000	4	1/2"	
L-12-16-6	SLL-12-16-6	24.00									6		
L-12-16-6-NH	SLL-12-16-NH	24.00									NO MOUNTING HOLES		
L-16-20-6	N/A	24.00									2.50		1.250
L-16-20-8	SLL-16-20-8	32.00	8										
L-16-20-8-NH	SLL-16-20-NH	32.00	NO MOUNTING HOLES										
L-20-24-5	N/A	30.00	3.00	1.500	1.000	2.470	2.000	1.000	3.000	6.000		5	
L-20-24-8	SLL-20-24-8	48.00									8		
L-20-24-8-NH	SLL-20-24-NH	48.00									NO MOUNTING HOLES		



V-Gibs – Inch Bronze Plated



Use Lamina V-Gibs and Wear Strips right from stock to create assemblies.

Only Lamina stocks standard V-Gibs

Hole location $\pm .005$
Unless noted all Dimensions $\pm .010$

V-GIBS – BRONZE PLATED										
PART NUMBER	L	W Ref.	H +.000 -.005	F Base Width +.000 -.001	B Roll Dim. +.000 -.001	C +.000 -.005	D	E	S	
									Qty.	Size
V-5-7-3	5.25	.92	.610	.562	1.2455	.281	.875	1.750	3	1/4"
V-5-7-4	7.00								4	
V-5-7-5	8.75								5	
V-6-10-3	6.00	1.18	.735	.750	1.4330	.375	1.000	2.000	3	5/16"
V-6-10-4	8.00								4	
V-6-10-5	10.00								5	
V-7-11-3	7.50	1.38	.860	.875	1.5580	.437	1.250	2.500	3	3/8"
V-7-11-4	10.00								4	
V-7-11-5	12.50								5	
V-8-12-3	9.00	1.70	.985	1.125	1.8080	.562	1.500	3.000	3	3/8"
V-8-12-4	12.00								4	
V-8-12-5	15.00								5	
V-10-16-4	16.00	1.97	1.235	1.250	1.9330	.625	2.000	4.000	4	1/2"
V-10-16-6	24.00								6	
V-12-20-6	24.00	2.49	1.470	1.625	2.3080	.812	2.000	4.000	6	5/8"
V-12-20-8	32.00								8	
V-14-24-5	30.00	3.01	1.720	2.000	2.6830	1.000	3.000	6.000	5	5/8"
V-14-24-8	48.00								8	
V-16-32-8	48.00	3.90	1.970	2.750	3.4330	1.375	3.000	6.000	8	3/4"

Lamina Bronze electroplated on steel has achieved universal acceptance for wear applications. The Lamina principle of using bronze for wear surfaces and steel for strength is seen on many products throughout the Lamina product line.

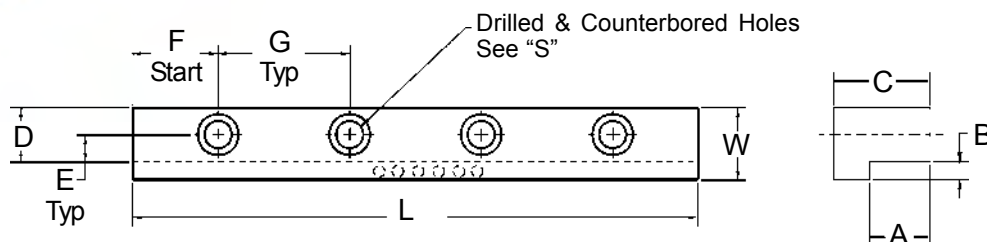
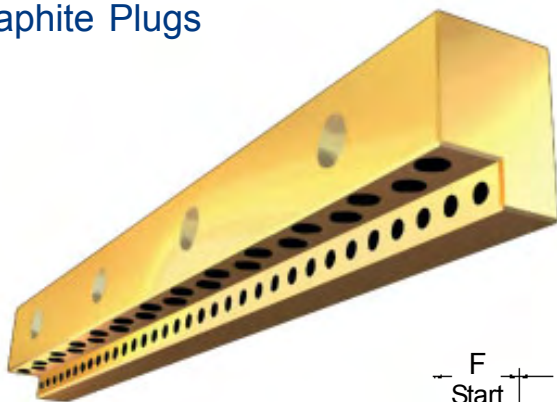
- Plating thickness: .008 - .010
- One piece construction with pre-drilled and counter bored screw holes, machined complete.



L-Gib – Inch

Aluminum Bronze
with Self-Lubricating
Graphite Plugs

- Plastics Injection Molds
- Special Machine
- Press Gibbing
- Special Slide Applications



For L-Gibs without mounting holes use "N" at the end of the part number.

Unless noted all Dimensions $\pm .010$

L-GIBS INCH – SOLID BRONZE – SELF-LUBRICATING											
PART NUMBER	L	W +.000 -.005	A GH +.001	B GW -.000	C +.000 -.005	D	E	F	G	M	
										Qty	Size
L2LG42G	5.25	.75	.312	.188	.75	.56	.281	.875	1.750	3	1/4"
L2LG56G	7.00							.875		4	
L2LG70G	8.75							.875		5	
L3LG48G	6.00	1.00	.375	.250	.75	.75	.375	1.000	2.000	3	5/16"
L3LG64G	8.00							1.000		4	
L3LG80G	10.00							1.000		5	
L4LG48G	6.00	1.25	.500	.375	.88	.87	.437	1.000	2.000	3	3/8"
L4LG60G	7.50							1.250		3	
L4LG80G	10.00							1.250		4	
L4LG100G	12.50							1.250		5	
L6LG48G	6.00	1.50	.750	.500	1.25	1.00	.500	1.000	2.000	3	3/8"
L6LG72G	9.00							1.500		3	
L6LG96G	12.00							1.500		4	
L6LG120G	15.00							1.500		5	
L7LG64G	8.00	2.00	.875	.625	1.50	1.37	.687	1.000	2.000	4	1/2"
L7LG96G	12.00							1.500		4	
L7LG128G	16.00							2.000		4	
L10LG96G	12.00	2.50	1.250	.750	2.00	1.75	.875	1.500	3.000	4	5/8"
L10LG144G	18.00							2.250		4	
L10LG192G	24.00							3.000		4	
L12LG96G	12.00	3.00	1.500	1.000	2.50	2.00	1.000	1.500	3.000	4	5/8"
L12LG144G	18.00							2.250		4	
L12LG192G	24.00							3.000		4	

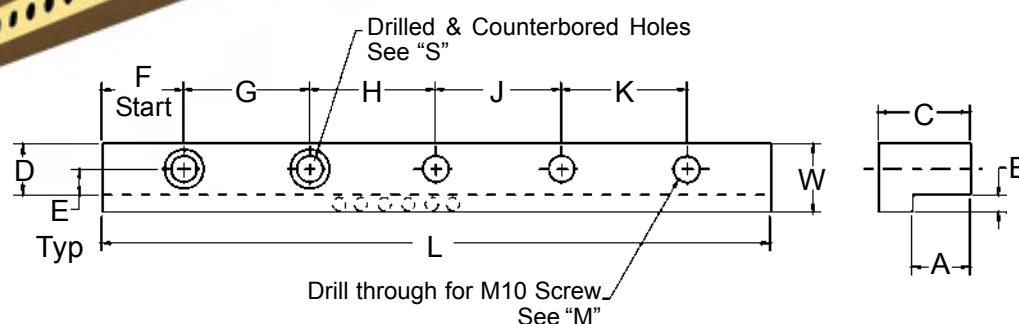
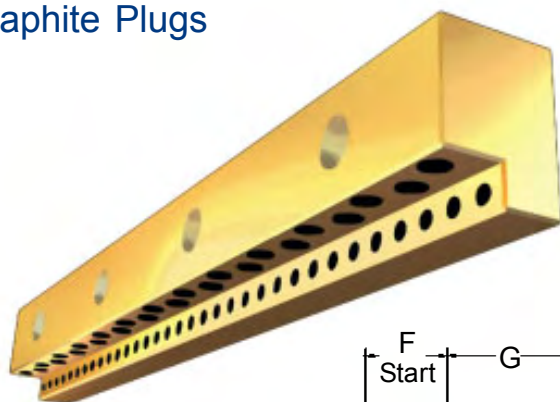




L-Gib – Metric

Aluminum Bronze
with Self-Lubricating
Graphite Plugs

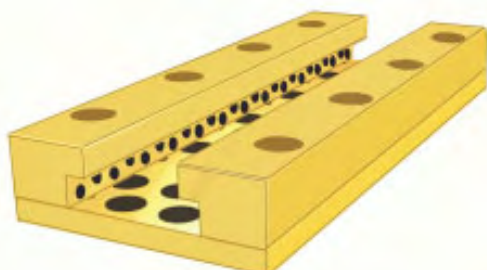
- Plastics Injection Molds
- Special Machine
- Press Gibbing
- Special Slide Applications



Precision machined sliding surface

Unless noted all Dimensions $\pm 0.25\text{mm}$

L-GIBS – METRIC															
PART NUMBER	L	W +0.00 -0.13	A GH	B GW	C +0.00 -0.13	D	E	F	G	H	J	K	QUANTITY		M & S Size
			+0.025	-0.000									M	S	
L15LG100G	100	32	15	10	30	22	11	20	-	-	-	60	2	-	M10
L15LG150G	150								-	55	-	55	3	-	
L15LG200G	200								55	-	50	55	4	-	
L15LG250G	250								70	-	70	70	4	-	
L25LG200G	200	50	25	22	45	28	14		55	-	50	55	-	4	
L25LG250G	250								70	-	70	70	-	4	
L25LG300G	300								65	65	65	65	-	5	
L25LG350G	350								80	75	75	80	-	5	



Lamina off-the-shelf L-Gibs and Wear Strips can be put together to make your own custom assemblies.

The variety of sizes offered make custom gib and slide assembly construction fast and easy.

During normal sliding action, graphite produces a lubricating film across the entire wear surface.

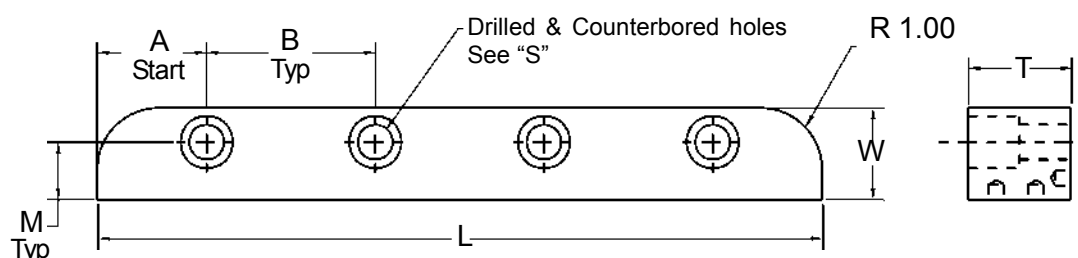
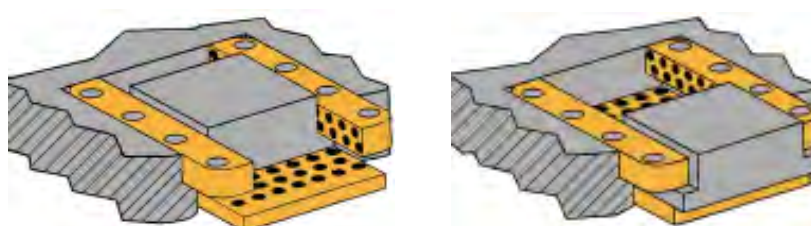
It is recommended that a mist of light oil be wiped on sliding surface prior to assembly.

One piece construction with pre-drilled and counter bored screw holes, machined complete.



Square Gibs

Aluminum Bronze
with Self-Lubricating
Graphite Plugs



Precision sliding surface

Unless noted all Dimensions ± 0.010

SQUARE GIBS – BRONZE – SELF-LUBRICATING								
PART NUMBER	L	W +.000 -.005	T +.000 -.005	A	B ±.005	M ±.005	S	
							Qty	Size
L6SG32G	4.00	1.00	.75	1.000	2.000	.625	2	3/8"
L6SG40G	5.00				1.500		3	
L6SG48G	6.00				2.000		3	
L6SG64G	8.00				2.000		4	
L6SG80G	10.00				2.000		5	
L6SG96G	12.00				2.000		6	
L6SG96NG	12.00				NO MOUNTING HOLES			
L8SG32G	4.00	1.25	1.00	1.000	2.000	.875	2	3/8"
L8SG40G	5.00				1.500		3	
L8SG48G	6.00				2.000		3	
L8SG64G	8.00				2.000		4	
L8SG80G	10.00				2.000		5	
L8SG96G	12.00				2.000		6	
L8SG96NG	12.00				NO MOUNTING HOLES			
L12SG64G	8.00	2.00	1.50	1.500	2.500	1.250	3	5/8"
L12SG80G	10.00			1.250	2.500		4	
L12SG96G	12.00			1.500	3.000		4	
L12SG96NG	12.00			NO MOUNTING HOLES				

Create custom gib
assemblies using
Lamina component
parts.

These products are in
stock in our own ware-
house and at many of
our master stocking
distributors!



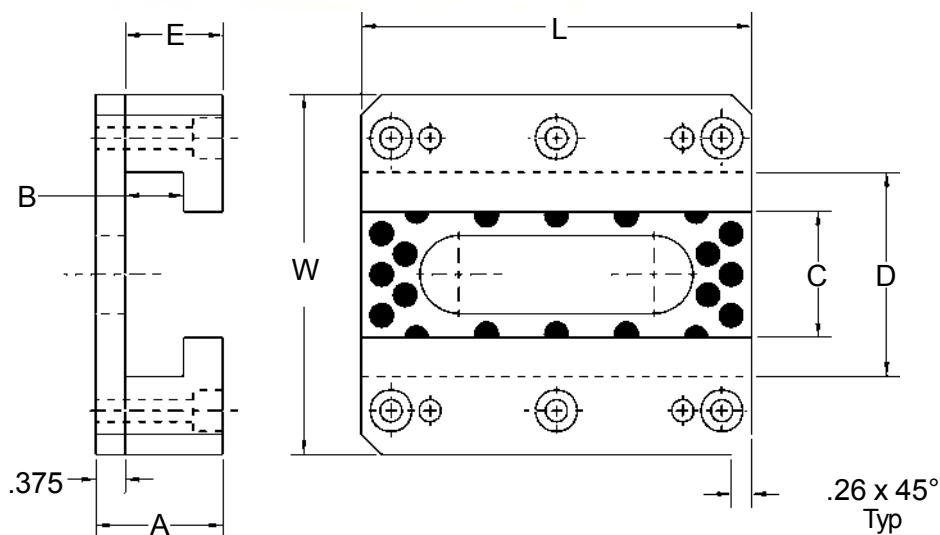
Gib Assemblies

Aluminum Bronze
with Self-Lubricating
Graphite Plugs

- Plastics Injection Molds
- Special Machine
- Special Slide Applications



**Complete – Ready to use,
out of the box!**



Lamina Gib Assemblies consist of 1 base plate, 2 L-Gibs, assembly screws and dowel pins.

L-Gibs are drilled and counterbored for screws and are spot drilled for dowels. Refer to page 11 for dimensional information.

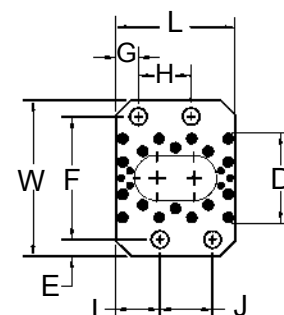
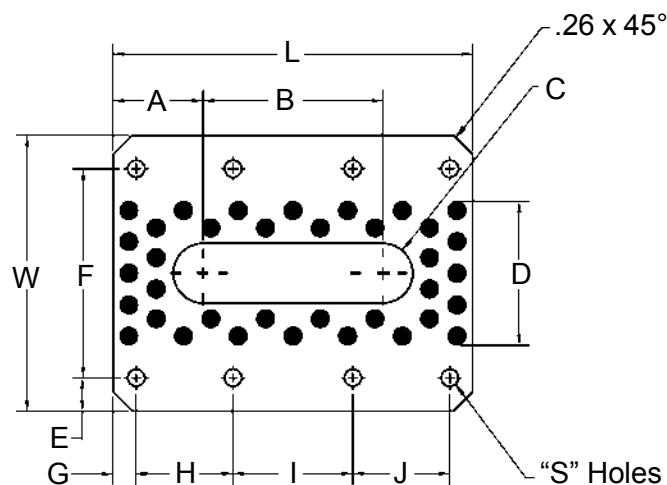
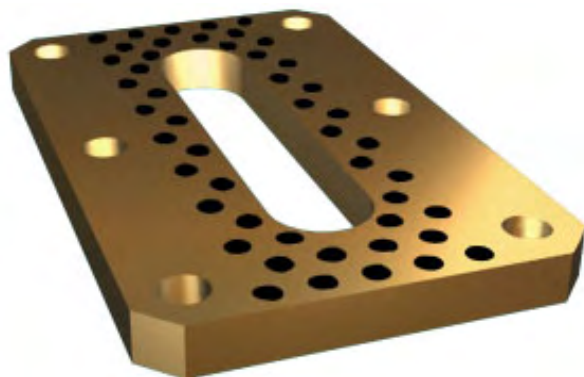
GIB ASSEMBLIES											
PART NUMBER	L	W +.000 -.005	A	B	C	D	E	SOCKET HEAD CAP SCREWS		LOCATING DOWEL PINS	
								Qty	Size	Qty	Size
L2GA16G	2.00	2.620	1.12	.312	1.12	1.50	.75	4	1/4-20x1-1/4	4	1/4 x1-1/2
L2GA24G	3.00							4			
L2GA32G	4.00							6			
L3GA24G	3.00	3.120	1.12	.375	1.12	1.62	.75	4	5/16-18x1-1/2	4	1/4 x1-1/2
L3GA32G	4.00							6			
L3GA40G	5.00							6			
L4GA24G	3.00	4.120	1.25	.500	1.62	2.37	.88	4	5/16-18x1-1/2	4	1/4 x1-1/2
L4GA32G	4.00							6			
L4GA40G	5.00							6			
L4GA48G	6.00							8			
L6GA32G	4.00	4.620	1.62	.750	1.62	2.62	1.25	6	5/16-18x1-3/4	4	1/4 x1-3/4
L6GA40G	5.00							6			
L6GA48G	6.00							8			



Base Plates for – Gib Assemblies

Aluminum Bronze with Self Lubricating
Graphite Plugs

See page 9 for complete assembly



L2GAB16G
HOLE LOCATIONS

Thickness = .375"

Unless noted all Dimensions $\pm .010$

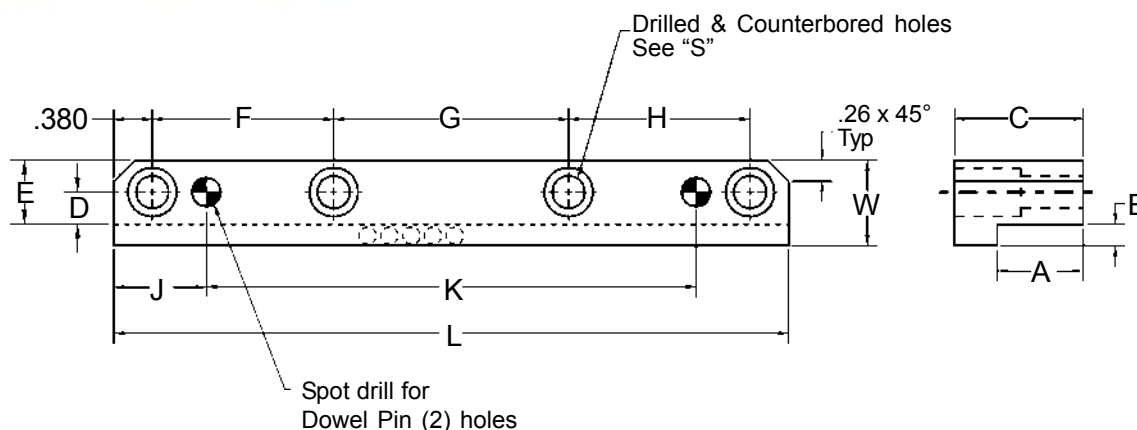
GIB ASSEMBLY BASE PLATES														
PART NUMBER	L	W +.000 -.005	A	B	C	D	E	F	G	H	I	J	S	
													QTY/SIZE	
L2GAB16G	2.00	2.620	.69	.62	.38	1.50	.280	2.060	.380	.880	.740	.880	4	1/4"
L2GAB24G	3.00		.88	1.24						-	-	2.240	4	
L2GAB32G	4.00		1.00	2.00						1.620	-	1.620	6	
L3GAB24G	3.00	3.120	.88	1.24	.38	1.68	.370	2.380	.380	-	-	2.240	4	5/16"
L3GAB32G	4.00		1.00	2.00						1.620	-	1.620	6	
L3GAB40G	5.00		1.12	2.76						2.120	-	2.120	6	
L4GAB24G	3.00	4.120	1.00	1.00	.50	2.25	.495	3.130	.380	-	-	2.240	4	5/16"
L4GAB32G	4.00		1.12	1.76						1.620	-	1.620	6	
L4GAB40G	5.00		1.25	2.50						2.120	-	2.120	6	
L4GAB48G	6.00	4.620	1.50	3.00	.50	2.41	.560	3.500	.380	1.620	2.000	1.620	8	5/16"
L6GAB32G	4.00		1.12	1.76						1.620	-	1.620	6	
L6GAB40G	5.00		1.25	2.50						2.120	-	2.120	6	
L6GAB48G	6.00		1.50	3.00						1.620	2.000	1.620	8	



L-Gibs for – Gib Assemblies

Aluminum Bronze with Self Lubricating
Graphite Plugs

See page 9 for complete assembly



Precision machined sliding surface

Unless noted all Dimensions $\pm .010$

GIB ASSEMBLY L-GIBS														
PART NUMBER	L	W +.000 -.005	A GH	B GW	C +.000 -.005	D	E	F	G	H	J	K	S	
			+.001 - .000					+.005					Qty	Size
L2GAL16G	2.00	.75	.312	.188	.75	.280	.56	-	.880	-	.79	.95	2	1/4"
L2GAL24G	3.00							-	-	2.240	.88	1.24	2	
L2GAL32G	4.00							1.620	-	1.620	.88	2.24	3	
L3GAL24G	3.00	1.00	.375	.250	.75	.380	.75	-	-	2.240	.88	1.24	2	5/16"
L3GAL32G	4.00							1.620		1.620		2.24	3	
L3GAL40G	5.00							2.120		2.120		3.24	3	
L4GAL24G	3.00	1.25	.500	.375	.88	.380	.88	-	-	2.240	.88	1.24	2	
L4GAL32G	4.00							1.620	-	1.620		2.24	3	
L4GAL40G	5.00							2.120	-	2.120		3.24	3	
L4GAL48G	6.00							1.620	2.000	1.620		4.24	4	
L6GAL32G	4.00	1.50	.750	.500	1.25	.440	1.00	1.620	-	1.620	.88	2.24	3	
L6GAL40G	5.00							2.120	-	2.120		3.24	3	
L6GAL48G	6.00							1.620	2.000	1.620		4.24	4	



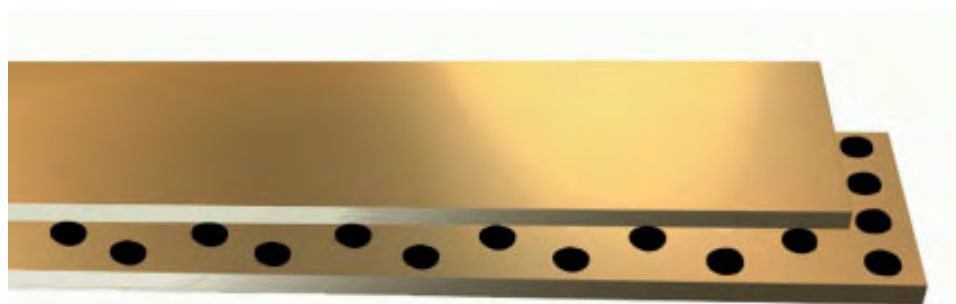
Wear Strips – Bronze Plated

Lamina bronze plated wear strips are offered cut to your exact length or in 96" lengths.

WEAR STRIPS – INCH – BRONZE PLATED											
BRONZE PLATED		T THICK- NESS +.000 -.002	W WIDTH +.000 -.060	BRONZE PLATED		T THICK- NESS +.000 -.002	W WIDTH +.000 -.060	BRONZE PLATED		T THICK- NESS +.000 -.002	W WIDTH +.000 -.060
PART NUMBER by the inch	PART NUMBER 96" length			PART NUMBER by the inch	PART NUMBER 96" length			PART NUMBER by the inch	PART NUMBER 96" length		
FP-1/8 X 1	PPF013100	1/8"	1	FP-5/16-X-1	PPF031100	5/16"	1	FP-5/8-X-1	PPF063100	5/8"	1
FP-1/8-X-1-1/4	PPF013125		1 -1/4	FP-5/16-X-1-1/4	PPF031125		1 -1/4	FP-5/8-X-1-1/4	PPF063125		1 -1/4
FP-1/8-X-1-1/2	PPF013150		1 -1/2	FP-5/16-X-1-1/2	PPF031150		1 -1/2	FP-5/8-X-1-1/2	PPF063150		1 -1/2
FP-1/8-X-1-3/4	PPF013175		1 -3/4	FP-5/16-X-1-3/4	PPF031175		1 -3/4	FP-5/8-X-1-3/4	PPF063175		1 -3/4
FP-1/8-X-2	PPF013200		2	FP-5/16-X-2	PPF031200		2	FP-5/8-X-2	PPF063200		2
FP-1/8-X-2-1/2	PPF013250		2-1/2	FP-5/16-X-2-1/2	PPF031250		2-1/2	FP-5/8-X-2-1/2	PPF063250		2-1/2
FP-1/8-X-3	PPF013300		3	FP-5/16-X-3	PPF031300		3	FP-5/8-X-3	PPF063300		3
FP-1/8-X-3-1/2	PPF013350		3-1/2	FP-5/16-X-3-1/2	PPF031350		3-1/2	FP-5/8-X-3-1/2	PPF063350		3-1/2
FP-1/8-X-4	PPF013400		4	FP-5/16-X-4	PPF031400		4	FP-5/8-X-4	PPF063400		4
FP-1/8-X-4-1/2	PPF013450		4-1/2	FP-5/16-X-4-1/2	PPF031450		4-1/2	FP-5/8-X-4-1/2	PPF063450		4-1/2
FP-1/8-X-5	PPF013500		5	FP-5/16-X-5	PPF031500		5	FP-5/8-X-5	PPF063500		5
FP-1/8-X-6	PPF013600		6	FP-5/16-X-6	PPF031600		6	FP-5/8-X-6	PPF063600		6
FP-3/16-X-1	PPF019100	3/16"	1	FP-5/16-X-8	PPF031800	3/8"	8	FP-5/8-X-8	PPF063800	3/4"	8
FP-3/16-X-1-1/4	PPF019125		1 -1/4	FP-5/16-X-10	PPF0311000		10	FP-5/8-X-10	PPF0631000		10
FP-3/16-X-1-1/2	PPF019150		1 -1/2	FP-5/16-X-12	PPF0311200		12	FP-5/8-X-12	PPF0631200		12
FP-3/16-X-1-3/4	PPF019175		1 -3/4	FP-3/8-X-1	PPF038100		1	FP-3/4-X-1	PPF075100		1
FP-3/16-X-2	PPF019200		2	FP-3/8-X-1-1/4	PPF038125		1 -1/4	FP-3/4-X-1-1/4	PPF075125		1 -1/4
FP-3/16-X-2-1/2	PPF019250		2-1/2	FP-3/8-X-1-1/2	PPF038150		1 -1/2	FP-3/4-X-1-1/2	PPF075150		1 -1/2
FP-3/16-X-3	PPF019300		3	FP-3/8-X-1-3/4	PPF038175		1 -3/4	FP-3/4-X-1-3/4	PPF075175		1 -3/4
FP-3/16-X-3-1/2	PPF019350		3-1/2	FP-3/8-X-2	PPF038200		2	FP-3/4-X-2	PPF075200		2
FP-3/16-X-4	PPF019400		4	FP-3/8-X-2-1/2	PPF038250		2-1/2	FP-3/4-X-2-1/2	PPF075250		2-1/2
FP-3/16-X-4-1/2	PPF019450		4-1/2	FP-3/8-X-3	PPF038300		3	FP-3/4-X-3	PPF075300		3
FP-3/16-X-5	PPF019500		5	FP-3/8-X-3-1/2	PPF038350		3-1/2	FP-3/4-X-3-1/2	PPF075350		3-1/2
FP-3/16-X-6	PPF019600		6	FP-3/8-X-4	PPF038400		4	FP-3/4-X-4	PPF075400		4
FP-3/16-X-8	PPF019800	8	FP-3/8-X-4-1/2	PPF038450	4-1/2	FP-3/4-X-4-1/2	PPF075450	4-1/2			
FP-1/4-X-1	PPF025100	1/4"	1	FP-3/8-X-5	PPF038500	1/2"	5	FP-3/4-X-5	PPF075500	1"	5
FP-1/4-X-1-1/4	PPF025125		1 -1/4	FP-3/8-X-6	PPF038600		6	FP-3/4-X-6	PPF075600		6
FP-1/4-X-1-1/2	PPF025150		1 -1/2	FP-3/8-X-8	PPF038800		8	FP-3/4-X-8	PPF075800		8
FP-1/4-X-1-3/4	PPF025175		1 -3/4	FP-3/8-X-10	PPF0381000		10	FP-3/4-X-10	PPF0751000		10
FP-1/4-X-2	PPF025200		2	FP-3/8-X-12	PPF0381200		12	FP-3/4-X-12	PPF0751200		12
FP-1/4-X-2-1/2	PPF025250		2-1/2	FP-1/2-X-1	PPF050100		1	FP-1-X-1	PPF100100		1
FP-1/4-X-3	PPF025300		3	FP-1/2-X-1-1/4	PPF050125		1 -1/4	FP-1-X-1-1/4	PPF100125		1 -1/4
FP-1/4-X-3-1/2	PPF025350		3-1/2	FP-1/2-X-1-1/2	PPF050150		1 -1/2	FP-1-X-1-1/2	PPF100150		1 -1/2
FP-1/4-X-4	PPF025400		4	FP-1/2-X-1-3/4	PPF050175		1 -3/4	FP-1-X-1-3/4	PPF100175		1 -3/4
FP-1/4-X-4-1/2	PPF025450		4-1/2	FP-1/2-X-2	PPF050200		2	FP-1-X-2	PPF100200		2
FP-1/4-X-5	PPF025500		5	FP-1/2-X-2-1/2	PPF050250		2-1/2	FP-1-X-2-1/2	PPF100250		2-1/2
FP-1/4-X-6	PPF025600		6	FP-1/2-X-3	PPF050300		3	FP-1-X-3	PPF100300		3
FP-1/4-X-8	PPF025800	8	FP-1/2-X-3-1/2	PPF050350	3-1/2	FP-1-X-3-1/2	PPF100350	3-1/2			
FP-1/4-X-10	PPF0251000	10	FP-1/2-X-4	PPF050400	4	FP-1-X-4	PPF100400	4			
FP-1/4-X-12	PPF0251200	12	FP-1/2-X-4-1/2	PPF050450	4-1/2	FP-1-X-4-1/2	PPF100450	4-1/2			
Create custom assemblies using standard Lamina component parts.				FP-1/2-X-5	PPF050500	5	FP-1-X-5	PPF100500	5		
				FP-1/2-X-6	PPF050600	6	FP-1-X-6	PPF100600	6		
				FP-1/2-X-8	PPF050800	8	FP-1-X-8	PPF100800	8		
				FP-1/2-X-10	PPF0501000	10	FP-1-X-10	PPF1001000	10		
				FP-1/2-X-12	PPF0501200	12	FP-1-X-12	PPF1001200	12		

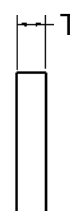
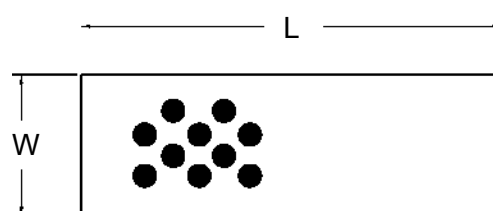
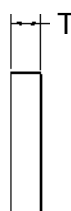
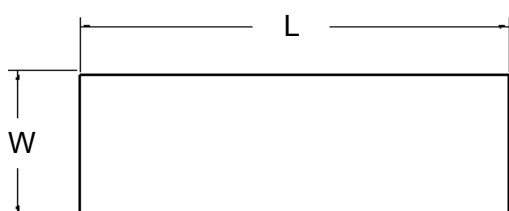


Wear Strips – Bronze Plated



PLAIN

SELF LUBRICATING



Maximum length 96"

Maximum length 48"

- In order to be flat this material must be fastened to a flat surface. Parallel .001 within 8'.
- Thickness of Bronze: .008 to .010
- Milled edges

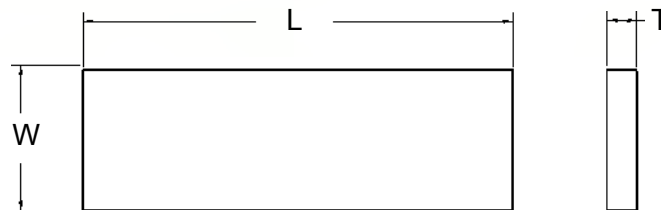
Wear Strips - Bronze Plated and Self Lubricating

WEAR STRIP – INCH – BRONZE PLATED											
SELF LUBRICATING		T THICK- NESS +.000 -.002	W WIDTH +.000 -.060	SELF LUBRICATING		T THICK- NESS +.000 -.002	W WIDTH +.000 -.060	SELF LUBRICATING		T THICK- NESS +.000 -.002	W WIDTH +.000 -.060
PART NUMBER by the inch	PART NUMBER 48" length			PART NUMBER by the inch	PART NUMBER 48" length			PART NUMBER by the inch	PART NUMBER 48" length		
SLFP025-100	SLF025100	1/4"	1	SLFP050-100	SLF050100	1/2"	1	SLFP100-100	SLF100100	1"	1
SLFP025-150	SLF025150		1-1/2	SLFP050-150	SLF050150		1-1/2	SLFP100-150	SLF100150		1-1/2
SLFP025-200	SLF025200		2	SLFP050-200	SLF050200		2	SLFP100-200	SLF100200		2
SLFP025-250	SLF025250		2-1/2	SLFP050-250	SLF050250		2-1/2	SLFP100-250	SLF100250		2-1/2
SLFP025-300	SLF025300		3	SLFP050-300	SLF050300		3	SLFP100-300	SLF100300		3
SLFP025-400	SLF025400		4	SLFP050-400	SLF050400		4	SLFP100-400	SLF100400		4
SLFP025-500	SLF025500		5	SLFP050-500	SLF050500		5	SLFP100-500	SLF100500		5
SLFP025-600	SLF025600		6	SLFP050-600	SLF050600		6	SLFP100-600	SLF100600		6
SLFP038-100	SLF038100	3/8"	1	SLFP075-100	SLF075100	3/4"	1	These products are in stock at Lamina and at Lamina stocking distributors throughout the world.			
SLFP038-150	SLF038150		1-1/2	SLFP075-150	SLF075150		1-1/2				
SLFP038-200	SLF038200		2	SLFP075-200	SLF075200		2				
SLFP038-250	SLF038250		2-1/2	SLFP075-250	SLF075250		2-1/2				
SLFP038-300	SLF038300		3	SLFP075-300	SLF075300		3				
SLFP038-400	SLF038400		4	SLFP075-400	SLF075400		4				
SLFP038-500	SLF038500		5	SLFP075-500	SLF075500		5				
SLFP038-600	SLF038600		6	SLFP075-600	SLF075600		6				

Lamina bronze plated self-lubricating wear strips are offered cut to your length or in 48" lengths. We suggest cutting these strips in 1/2" increments. Avoid cutting through the plugs.



Wear Strips – Bronze-Plated – FP Metric



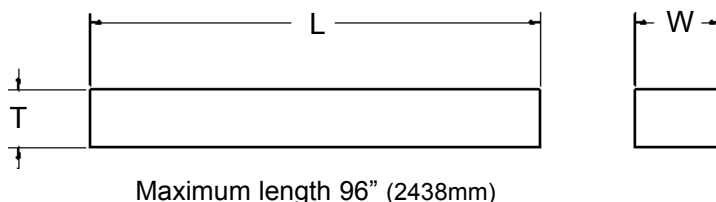
Maximum length 2438 mm

- In order to be flat this material must be fastened to a flat surface. Parallel 0.025 within 2400mm.
- Thickness of Bronze: 0.20 to 0.25
- Milled edges

WEAR STRIP – METRIC – BRONZE-PLATED												
BRONZE PLATED		T THICK- NESS +0.0 -0.051	W WIDTH +0.0 -1.524	BRONZE PLATED		T THICK- NESS +0.0 -0.051	W WIDTH +0.0 -1.524	BRONZE PLATED		T THICK- NESS +0.0 -0.051	W WIDTH +0.0 -1.524	
PART NUMBER by 25mm	PART NUMBER 2438mm length			PART NUMBER by 25mm	PART NUMBER 2438mm length			PART NUMBER by 25mm	PART NUMBER 2438mm length			
FP-4MM-X-25	MFP04025	4mm	25mm	FP-8MM-X-100	MFP08100	8mm	100mm	FP-15MM-X-60	MFP15060	15mm	60mm	
FP-4MM-X-30	MFP04030		30mm	FP-8MM-X-125	MFP08125		125mm	FP-15MM-X-75	MFP15075		75mm	
FP-4MM-X-35	MFP04035		35mm	FP-10MM-X-25	MFP10025		10mm	25mm	FP-15MM-X-100		MFP15100	100mm
FP-4MM-X-40	MFP04040		40mm	FP-10MM-X-30	MFP10030			30mm	FP-15MM-X-125		MFP15125	125mm
FP-4MM-X-60	MFP04060		60mm	FP-10MM-X-35	MFP10035			35mm	FP-15MM-X-150		MFP15150	150mm
FP-4MM-X-100	MFP04100		100mm	FP-10MM-X-40	MFP10040			40mm	FP-20MM-X-30		MFP20030	20mm
FP-5MM-X-25	MFP05025	5mm	25mm	FP-10MM-X-50	MFP10050	50mm		FP-20MM-X-50	MFP20050	50mm		
FP-5MM-X-30	MFP05030		30mm	FP-10MM-X-60	MFP10060	60mm		FP-20MM-X-60	MFP20060	60mm		
FP-5MM-X-40	MFP05040		40mm	FP-10MM-X-75	MFP10075	75mm	FP-20MM-X-75	MFP20075	75mm			
FP-5MM-X-75	MFP05075		75mm	FP-10MM-X-100	MFP10100	100mm	FP-20MM-X-100	MFP20100	100mm			
FP-5MM-X-100	MFP05100		100mm	FP-10MM-X-125	MFP10125	125mm	FP-25MM-X-25	MFP25025	25mm	25mm		
FP-6MM-X-25	MFP06025		6mm	25mm	FP-10MM-X-150	MFP10150	150mm	FP-25MM-X-100		MFP25100	100mm	
FP-6MM-X-30	MFP06030	30mm		FP-12MM-X-50	MFP12050	12mm	50mm	Lamina is the only manu- facturer of bronze plated wear strips.				
FP-6MM-X-40	MFP06040	40mm		FP-12MM-X-75	MFP12075		75mm					
FP-6MM-X-50	MFP06050	50mm		FP-12MM-X-100	MFP12100		100mm					
FP-6MM-X-60	MFP06060	60mm		FP-12MM-X-125	MFP12125		125mm					
FP-6MM-X-75	MFP06075	75mm		FP-12MM-X-150	MFP12150		150mm					
FP-8MM-X-25	MFP08025	8mm	25mm	FP-12MM-X-200	MFP12200		15mm					200mm
FP-8MM-X-60	MFP08060		60mm	FP-15MM-X-25	MFP15025	25mm						
FP-8MM-X-75	MFP08075		75mm	FP-15MM-X-40	MFP15040	75mm						



Wear Strip – Bronze-Plated – SP Inch



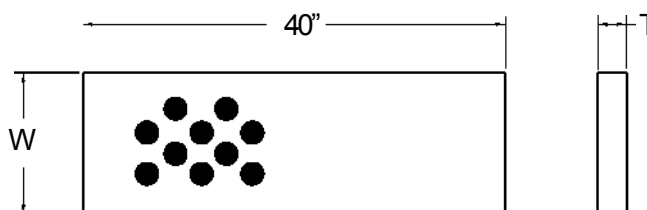
SIDE STRIP – INCH			
BRONZE PLATED		T THICK-NESS	W WIDTH
PART NUMBER by the inch	PART NUMBER 96" length	-.018 to -.020	+.000 to -.005
SP-1/2-X-1	SPF050100	1/2	1
SP-1/2-X-1-1/2	SPF050150		1-1/2
SP-5/8-X-1	SPF063100	5/8	1
SP-5/8-X-2	SPF063200		2
SP-3/4-X-1	SPF075100	3/4	1
SP-3/4-X-1-1/2	SPF075150		1-1/2
SP-3/4-X-2	SPF075200		2
SP-1-X-1-1/2	SPF100150	1	1-1/2
SP-1-X-2	SPF100200		2
SP-1-X-3	SPF100300		3
SP-1-1/4-X-2	SPF125200	1-1/4	2
SP-1-1/4-X-3	SPF125300		3
SP-1-1/2-X-2	SPF150200	1-1/2	2
SP-1-1/2-X-2-1/2	SPF150250		2-1/2
SP-2-X-2	SPF200200	2	2

Wear Strip - Bronze Plated - SP Metric

SIDE STRIP – METRIC			
BRONZE PLATED		T THICK-NESS	W WIDTH
PART NUMBER by 25mm	PART NUMBER 2438 length	-.45 to -.50	+.0 to -.12
SP-15MM-X-25MM	MSP15025	15	25
SP-25MM-X-37MM	MSP25037	25	37

Wear Strip Ways – Solid Bronze with Graphite Plugs

WEAR STRIP WAYS			
PART NUMBER	T ±.001	W	PLUG DIAMETER
L312320NG	0.375	1.50	5/16
L316320NG		2.00	3/8
L320320NG		2.50	3/8
L324320NG		3.00	1/2
L412320NG	0.500	1.50	5/16
L416320NG		2.00	3/8
L420320NG		2.50	3/8
L424320NG		3.00	1/2
L432320NG	0.625	4.00	1/2
L516320NG		2.00	3/8
L524320NG		3.00	1/2
L532320NG	0.750	4.00	1/2
L616320NG		2.00	3/8
L624320NG		3.00	1/2
L632320NG		4.00	1/2
L640320NG		5.00	1/2



Call Lamina Customer Service for hole pattern.



Wear Strips – Inch – Fixed-Length

Aluminum Bronze with Self-Lubrication
 Bilateral Graphite Plug Pattern

- Plastics Injection Molds
- Special Machine
- All other application where slide friction requires lubrication

No suffix for solid bronze

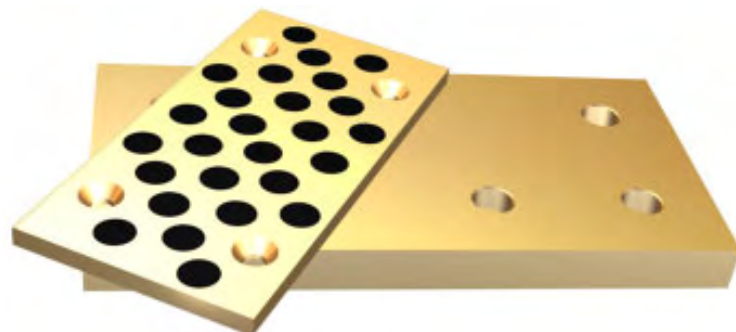
G or NG is necessary for ordering self lubricating – See page 17

WEAR STRIPS – IMPERIAL															
PART NUMBERS (THICKNESS)				W WIDTH	L LENGTH	SCREW HOLES		HOLE LOCATION ±.005							
1/4"	3/8"	1/2"	5/8"			AMT	PAT	A	B	C	D	E	F	G	H
L28-32	L38-32	-	-	1.00	4.00	2	A	1.00	3.00	-	-	-	-	.50	-
L28-40	L38-40	-	-		5.00	3		.50	2.50	4.50	-	-	-		
L28-48	L38-48	-	-		6.00	3		1.00	3.00	5.00	-	-	-		
L28-64	L38-64	-	-		8.00	4		1.00	3.00	5.00	7.00	-	-		
L28-80	L38-80	-	-		10.00	5		1.00	3.00	5.00	7.00	9.00	-		
L28-96	L38-96	-	-		12.00	6		1.00	3.00	5.00	7.00	9.00	11.00		
-	-	L412-24	L512-24	1.50	3.00	2	A	.50	2.50	-	-	-	-	.75	-
L212-32	L312-32	L412-32	L512-32		4.00	2		1.00	3.00	-	-	-	-		
L212-40	L312-40	L412-40	L512-40		5.00	3		.50	2.50	4.50	-	-	-		
L212-48	L312-48	L412-48	L512-48		6.00	3		1.00	3.00	5.00	-	-	-		
L212-64	L312-64	L412-64	L512-64		8.00	4		1.00	3.00	5.00	7.00	-	-		
L212-80	L312-80	L412-80	L512-80		10.00	5		1.00	3.00	5.00	7.00	9.00	-		
L212-96	L312-96	L412-96	L512-96	12.00	6	1.00	3.00	5.00	7.00	9.00	11.00	1.00	-		
-	-	L416-24	L516-24	3.00	2	.50	2.50	-	-	-	-				
L216-32	L316-32	L416-32	L516-32	4.00	2	1.00	3.00	-	-	-	-				
L216-40	L316-40	L416-40	L516-40	5.00	3	.50	2.50	4.50	-	-	-				
L216-48	L316-48	L416-48	L516-48	6.00	3	1.00	3.00	5.00	-	-	-				
L216-64	L316-64	L416-64	L516-64	8.00	4	1.00	3.00	5.00	7.00	-	-				
L216-80	L316-80	L416-80	L516-80	10.00	5	1.00	3.00	5.00	7.00	9.00	-	1.25	-		
L216-96	L316-96	L416-96	L516-96	12.00	6	1.00	3.00	5.00	7.00	9.00	11.00				
-	-	L420-24	L520-24	3.00	2	.50	2.50	-	-	-	-				
L220-32	L320-32	L420-32	L520-32	4.00	2	1.00	3.00	-	-	-	-				
L220-40	L320-40	L420-40	L520-40	5.00	3	.50	2.50	4.50	-	-	-				
L220-48	L320-48	L420-48	L520-48	6.00	3	1.00	3.00	5.00	-	-	-				
L220-64	L320-64	L420-64	L520-64	8.00	4	1.00	3.00	5.00	7.00	-	-	0.50	2.50		
L220-80	L320-80	L420-80	L520-80	10.00	5	1.00	3.00	5.00	7.00	9.00	-				
L220-96	L320-96	L420-96	L520-96	12.00	6	1.00	3.00	5.00	7.00	9.00	11.00				
-	-	L424-24	L524-24	3.00	4	.50	2.50	-	-	-	-				
L224-32	L324-32	L424-32	L524-32	4.00	4	1.00	3.00	-	-	-	-				
L224-40	L324-40	L424-40	L524-40	5.00	4	.50	4.50	-	-	-	-				
L224-48	L324-48	L424-48	L524-48	6.00	4	1.00	5.00	-	-	-	-	1.00	3.00		
L224-64	L324-64	L424-64	L524-64	8.00	6	C	1.00	3.00	5.00	-	-			7.00	
L224-80	L324-80	L424-80	L524-80	10.00	6	B	1.00	5.00	9.00	-	-			-	
L224-96	L324-96	L424-96	L524-96	12.00	8	C	1.00	3.00	5.00	7.00	9.00			11.00	
L232-32	L332-32	L432-32	L532-32	4.00	4	B	1.00	3.00	-	-	-			-	
L232-40	L332-40	L432-40	L532-40	5.00	4		.50	4.50	-	-	-			-	
L232-48	L332-48	L432-48	L532-48	6.00	4		1.00	5.00	-	-	-	-			
L232-64	L332-64	L432-64	L532-64	8.00	6	C	1.00	3.00	5.00	-	-	7.00	1.00	3.00	
L232-80	L332-80	L432-80	L532-80	10.00	6	B	1.00	5.00	9.00	-	-	-			
L232-96	L332-96	L432-96	L532-96	12.00	8	C	1.00	3.00	5.00	7.00	9.00	11.00			

Mounting hole patterns for the above wear strips are noted on the following page.



Wear Strips – Inch – Fixed-Length

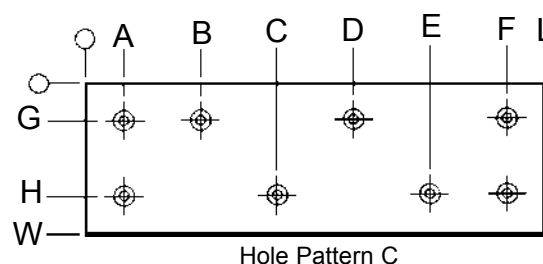
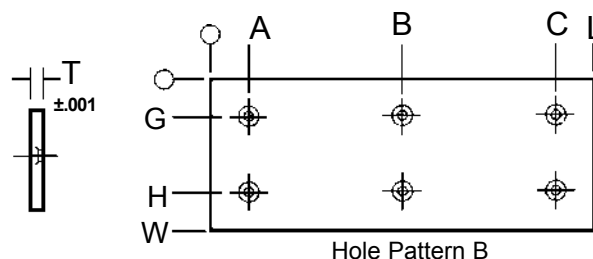
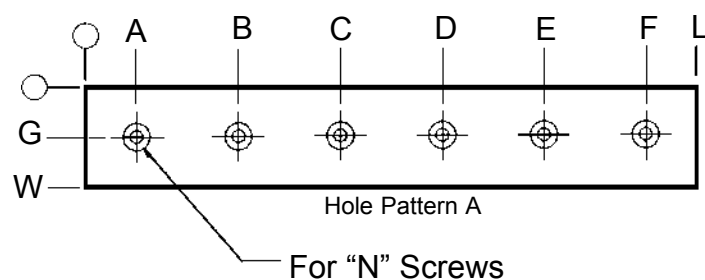


- Bronze with self-lubricating graphite plugs
- Ready to use
- Solid Bronze available upon request

When ordering please indicate preference at the end of the part number.

G- Drilled with Graphite L212-32G
 NG- Undrilled with graphite L212-32NG

Mounting hole patterns for Wear Strip



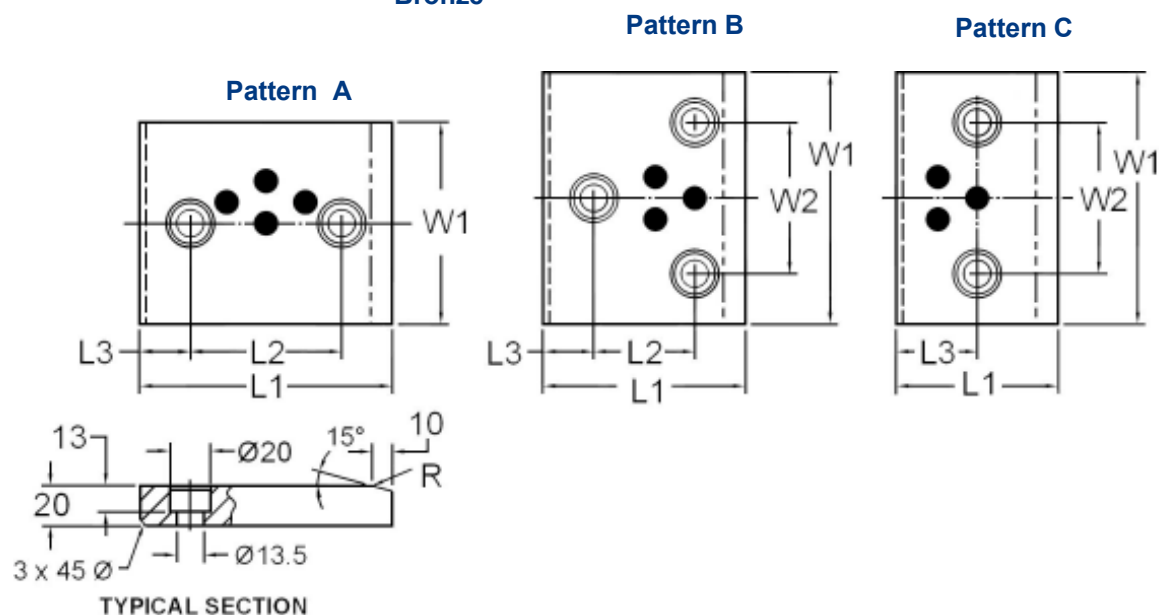
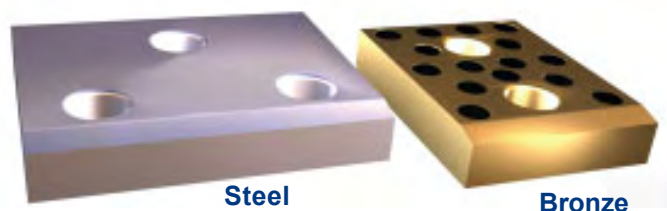
Material: Aluminum Bronze
 All Dimensions $\pm .010$ unless noted

RECOMMENDED MOUNTING SCREW SIZES	
THICKNESS	N
1/4	1/4" Flat head screw
3/8	1/4" Socket head cap screw
1/2	5/16" Socket head cap screw
5/8	5/16" Socket head cap screw

Note: Width and length of wearstrip determines hole pattern, regardless of thickness.



Wear Plates – Automotive VDI



PART NUMBER		PATTERN	W1 +0.0 -25	W2 ±0.2	L1 +0.0 -25	L2 ±0.2	L3 ±0.2
Plain Steel	Self-Lube Bronze						
VDX050100	VDY050100	A	50	NA	100	50	25
VDX050125	VDY050125				125	75	
VDX050160	VDY050160				160	110	
VDX050200	VDY050200				200	150	
VDX080100	VDY080100	A	80	NA	100	50	25
VDX080125	VDY080125				125	75	
VDX080160	VDY080160				160	110	
VDX080200	VDY080200				200	150	
VDX100050	VDY100050	C	100	50	50	NA	25
VDX100080	VDY100080				80	NA	40
VDX100100	VDY100100	A		NA	100	50	25
VDX100125	VDY100125				125	75	
VDX100160	VDY100160				160	110	
VDX100200	VDY100200				200	150	
VDX125080	VDY125080	C	125	75	80	NA	40
VDX125100	VDY125100	B			100	50	25
VDX125125	VDY125125				125	75	
VDX125160	VDY125160				160	110	
VDX160100	VDY160100	B	160	110	100	50	25
VDX160125	VDY160125				125	75	
VDX160160	VDY160160				160	110	

VDX – Hardened steel (Top & Nose) Plain

VDY – Aluminum Bronze with graphite plugs



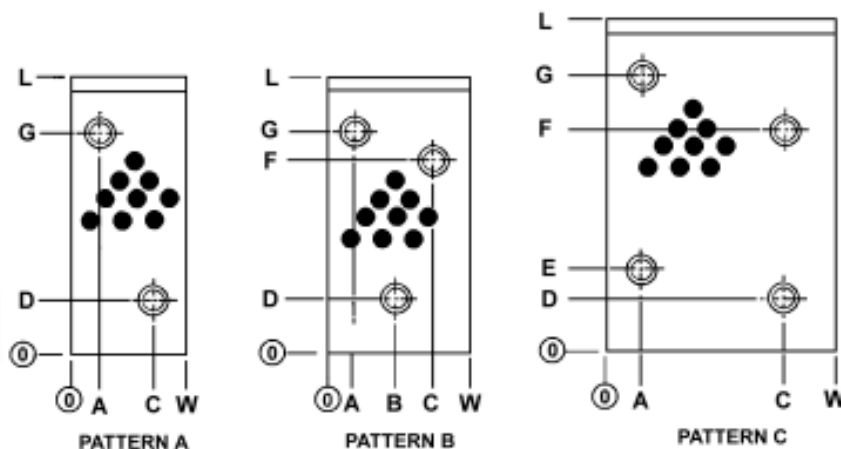
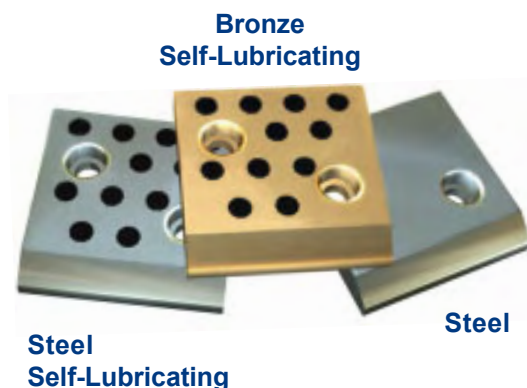
AVAILABILITY

- Steel
- Bronze Self-Lubricating

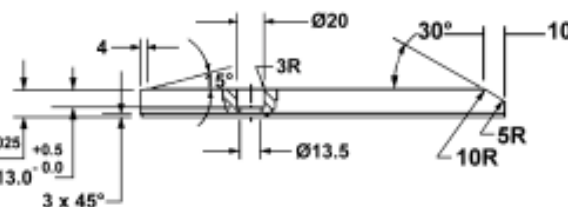
FROM STOCK



Wear Plates – Automotive NAAMS



Available in
3 Styles from Stock



(Metric Dimensions)

NAAMS CODE # (G)	NAAMS CODE # (Y)	NAAMS CODE # (X)	WIDTH	LENGTH	A	B	C	D	E	F	G	SCREW HOLES	
												AMT	PAT
W015010	W035010	W025010	50	100	25	-	25	30	-	-	60	2	A
W015015	W035015	W025015	50	150	25	-	25	30	-	-	110	2	A
W015020	W035020	W025020	50	200	25	-	25	40	-	-	160	2	A
W018010	W038010	W028010	80	100	20	-	60	30	-	-	60	2	A
W018015	W038015	W028015	80	150	20	-	60	30	-	-	110	2	A
W018020	W038020	W028020	80	200	20	-	60	40	-	-	160	2	A
W018025	W038025	W028025	80	250	20	-	60	40	-	-	210	2	A
W018031	W038031	W028031	80	315	20	40	60	40	-	250	275	3	B
W011010	W031010	W021010	100	100	22	-	78	30	-	-	60	2	A
W011015	W031015	W021015	100	150	22	-	78	30	-	-	110	2	A
W011020	W031020	W021020	100	200	22	50	78	40	-	135	160	3	B
W011025	W031025	W021025	100	250	22	50	78	40	-	185	210	3	B
W011031	W031031	W021031	100	315	22	50	78	40	-	250	275	3	B
W011210	W031210	W021210	125	100	25	-	100	30	-	-	60	2	A
W011215	W031215	W021215	125	150	25	-	100	30	-	-	110	2	A
W011220	W031220	W021220	125	200	25	62	100	40	-	135	160	3	B
W011225	W031225	W021225	125	250	25	62	100	40	-	185	210	3	B
W011231	W031231	W021231	125	315	25	-	100	40	65	250	275	4	C
W011610	W031610	W021610	160	100	30	-	130	30	-	-	60	2	A
W011615	W031615	W021615	160	150	30	-	130	30	-	-	110	2	A
W011620	W031620	W021620	160	200	30	80	130	40	-	135	160	3	B
W011625	W031625	W021625	160	250	30	-	130	40	65	185	210	4	C
W011631	W031631	W021631	160	315	30	-	130	40	65	250	275	4	C

*(G) Steel wear plates with graphite plugs.

*(Y) Aluminium bronze wear plates with graphite plugs.

*(X) Steel wear plates with no graphite plugs.

Screw hole locations ± 0.25 .

All dimensions ± 0.25 unless otherwise noted.

Evenly distributed graphite plugs to cover 25-30% of the area requiring lubrication.

These durable, precision wear plates are available from stock in all standard sizes and styles to fit your application and they all deliver legendary Lamina quality at no extra charge.



Imperial Wear Plates

Automotive Wear Plates



Steel

Bronze

AVAILABILITY

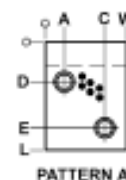
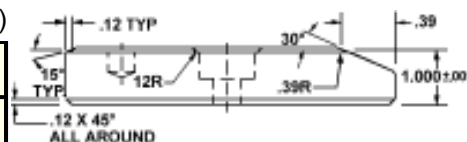
- Steel
- Bronze Self-Lubricating

FROM STOCK

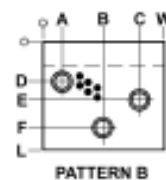
Lamina offers a range of wear plate styles and sizes for your selection.

(Inch Dimensions)

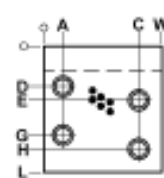
NSX	NYG	NOSE WIDTH W	L E N G T H H	SCREW HOLES		SCREW HOLE LOCATIONS							
				AMT	PAT	A	B	C	D	E	F	G	H
STEEL	ALUM BRONZE GRAPHITE												
NSX82508	NYG82508	2.50	8.00	2	A	1.25	-	1.25	1.50	6.50	-	-	-
NSX83025	NYG83025	3.00	2.50	2	A	.75	-	2.25	1.25	-	-	-	-
NSX8304	NYG8304	3.00	4.00	2	A	.75	-	2.25	1.25	2.75	-	-	-
NSX8305	NYG8305	3.00	5.00	2	A	.75	-	2.25	1.50	3.75	-	-	-
NSX8306	NYG8306	3.00	6.00	2	A	.75	-	2.25	1.50	4.50	-	-	-
NSX8308	NYG8308	3.00	8.00	2	A	.75	-	2.25	1.50	6.50	-	-	-
NSX8310	NYG8310	3.00	10.00	3	B	.75	1.50	2.25	1.50	2.50	8.50	-	-
NSX8312	NYG8312	3.00	12.00	3	B	.75	1.50	2.25	1.50	2.50	10.50	-	-
NSX84025	NYG84025	4.00	2.50	2	A	1.25	-	2.75	1.25	-	-	-	-
NSX8403	NYG8403	4.00	3.00	2	A	1.00	-	3.00	1.50	2.25	-	-	-
NSX8404	NYG8404	4.00	4.00	2	A	1.00	-	3.00	1.25	2.75	-	-	-
NSX8405	NYG8405	4.00	5.00	2	A	.88	-	3.12	1.50	3.75	-	-	-
NSX8406	NYG8406	4.00	6.00	2	A	.88	-	3.12	1.50	4.50	-	-	-
NSX8408	NYG8408	4.00	8.00	3	B	.88	2.00	3.12	1.50	2.50	6.50	-	-
NSX8410	NYG8410	4.00	10.00	3	B	.88	2.00	3.12	1.50	2.50	8.50	-	-
NSX8412	NYG8412	4.00	12.00	3	B	.88	2.00	3.12	1.50	2.50	10.50	-	-
NSX85025	NYG85025	5.00	2.50	2	A	1.25	-	3.75	1.25	-	-	-	-
NSX8504	NYG8504	5.00	4.00	2	A	1.00	-	4.00	1.50	2.75	-	-	-
NSX8505	NYG8505	5.00	5.00	2	A	1.00	-	4.00	1.50	3.75	-	-	-
NSX8506	NYG8506	5.00	6.00	2	A	1.00	-	4.00	1.50	4.50	-	-	-
NSX8508	NYG8508	5.00	8.00	3	B	1.00	2.50	4.00	1.50	2.50	6.50	-	-
NSX8510	NYG8510	5.00	10.00	3	B	1.00	2.50	4.00	1.50	2.50	8.50	-	-
NSX8512	NYG8512	5.00	12.00	4	C	1.00	-	4.00	1.50	2.50	-	9.50	10.50
NSX8604	NYG8604	6.00	4.00	3	B	1.00	3.00	5.00	1.25	2.25	2.75	-	-
NSX8605	NYG8605	6.00	5.00	2	A	1.12	-	4.88	1.50	3.75	-	-	-
NSX8606	NYG8606	6.00	6.00	4	C	1.00	-	5.00	1.25	2.25	-	3.75	4.75
NSX8608	NYG8608	6.00	8.00	4	C	1.00	-	5.00	1.25	2.25	-	5.75	6.75
NSX8610	NYG8610	6.00	10.00	5	D	1.00	3.00	5.00	1.25	2.25	5.00	7.75	8.75
NSX8612	NYG8612	6.00	12.00	5	D	1.00	3.00	5.00	1.25	2.25	6.00	9.75	10.75
NSX8805	NYG8805	8.00	5.00	2	A	1.25	-	6.75	1.50	3.75	-	-	-
NSX8806	NYG8806	8.00	6.00	4	C	1.00	-	7.00	1.25	2.25	-	3.75	4.75



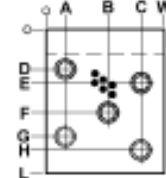
PATTERN A



PATTERN B



PATTERN C



PATTERN D

NOTES & SPECIFICATIONS

All dimensions are $\pm .010$ unless noted.

All screw holes are for 1/2 Soc. Hd. Scr., 9/16 drill through & 13/16 C'bore x .56 deep.

Tolerances:

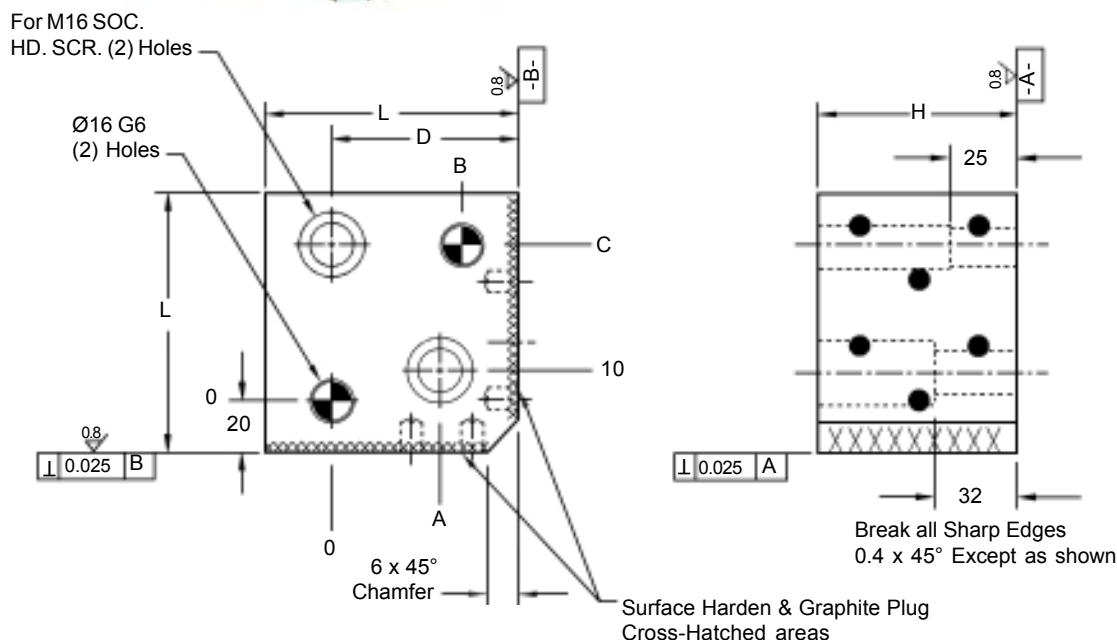
Thickness	$\pm .001$
Hole location	$\pm .010$
Flatness	$\pm .0005$



Corner Guide Blocks Solid-Steel Self-Lubricating

Metric Dimensions

AUTOMOTIVE METRIC
NAAMS STANDARD



Notes & Specification:

Screw hole locations ± 0.25

Dowel hole location ± 0.10

Applying a film or mist of light machine oil
on new self-lubricating parts before use
will enhance the self-lubricating properties.

(Do not use grease on graphite-plugged
surfaces.)

PART NUMBER	H	A ± 0.25	B ± 0.013	C ± 0.013	D ± 0.25	L
G118007	75	25	35	40	55	80
G118010	100					
G118012	125					
G119507	75	40	50	55	70	95
G119510	100					
G119512	125					
G111207	75	65	75	80	95	120
G111210	100					
G111212	125					



Guide Blocks

Solid-Steel Self-Lubricating

Inch Dimensions



Location of mounting holes and dowels are tightly held to provide for interchangeability.

GUIDE BLOCKS - INCH							
PART NUMBER	WIDTH 1.875		(+ / - .005)				# MTG. HOLES
	LENGTH	HEIGHT	A	B	C	D	
L14G24G	3.00	1.69	-	-	2.000	2.000	2
L14G32G	4.00		-	-	3.000	3.000	
L14G40G	5.00		-	2.500	4.000	4.000	3
L14G48G	6.00		-	3.000	5.000	5.000	
L14G64G	8.00		2.380	5.620	7.000	7.000	4
L14G80G	10.00		3.500	6.500	9.000	9.000	
L16G24G	3.00	1.94	-	-	2.000	2.000	2
L16G32G	4.00		-	-	3.000	3.000	
L16G40G	5.00		-	2.500	4.000	4.000	3
L16G48G	6.00		-	3.000	5.000	5.000	
L16G64G	8.00		2.380	5.620	7.000	7.000	4
L16G80G	10.00		3.500	6.500	9.000	9.000	
L20G24G	3.00	2.44	-	-	2.000	2.000	2
L20G32G	4.00		-	-	3.000	3.000	
L20G40G	5.00		-	2.500	4.000	4.000	3
L20G48G	6.00		-	3.000	5.000	5.000	
L20G64G	8.00		2.380	5.620	7.000	7.000	4
L20G80G	10.00		3.500	6.500	9.000	9.000	
L24G24G	3.00	2.94	-	-	2.000	2.000	2
L24G32G	4.00		-	-	3.000	3.000	
L24G40G	5.00		-	2.500	4.000	4.000	3
L24G48G	6.00		-	3.000	5.000	5.000	
L24G64G	8.00		2.380	5.620	7.000	7.000	4
L24G80G	10.00		3.500	6.500	9.000	9.000	

Applying a film or mist of light machine oil on new self-lubricating parts before use will enhance the self-lubricating properties.

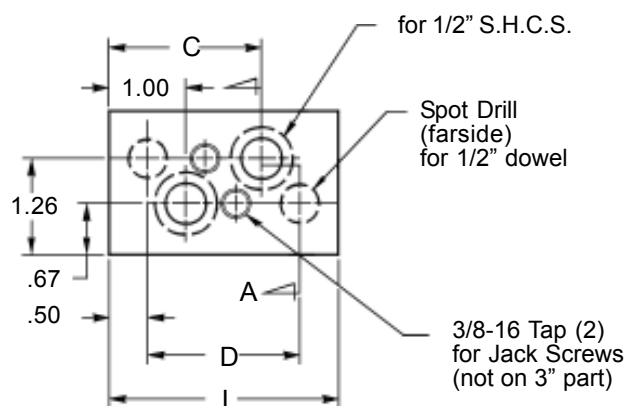
(Do not use grease on graphite-plugged surfaces.)

- Chromium Steel AISI-4150 or 6150
- Wear area is surface hardened - RC 56-62
- All blocks are self-lubricated with graphite oil plugs
- All blocks are precision ground
- All tolerances not noted are held to ± 0.010 and are non-cumulative
- Easily altered if necessary
- Lamina logo and part number is etched/stamped on part



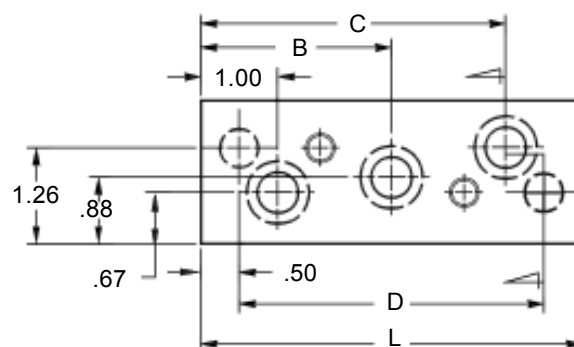
Guide Blocks Solid-Steel Self-Lubricating

Inch Dimensions

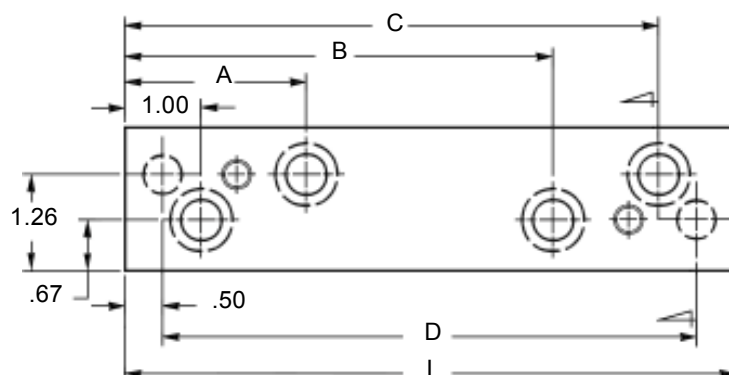


Note: Mounting hole locations $\pm .005$

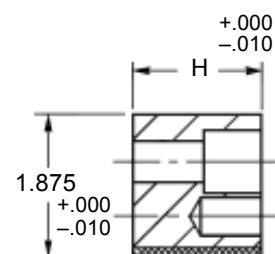
2 HOLE PATTERN



3 HOLE PATTERN

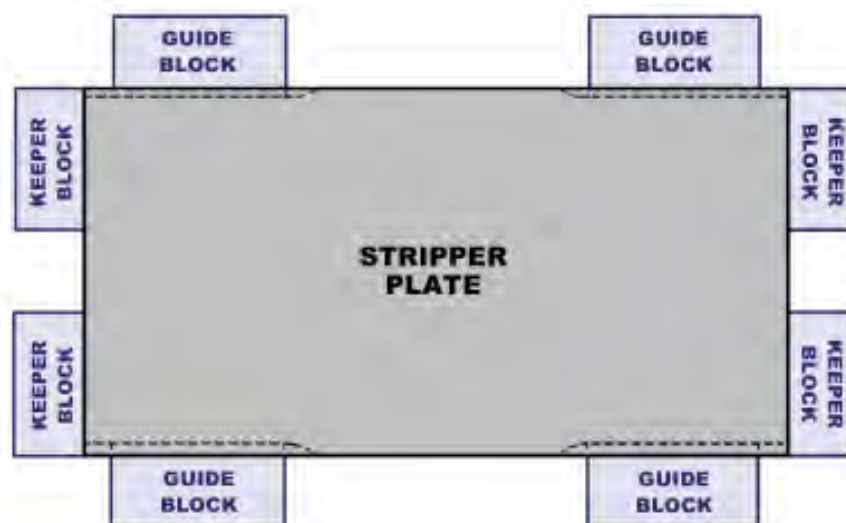


4 HOLE PATTERN



This surface is hardened and has self-lubricating graphite plugs

TYPICAL SECTION



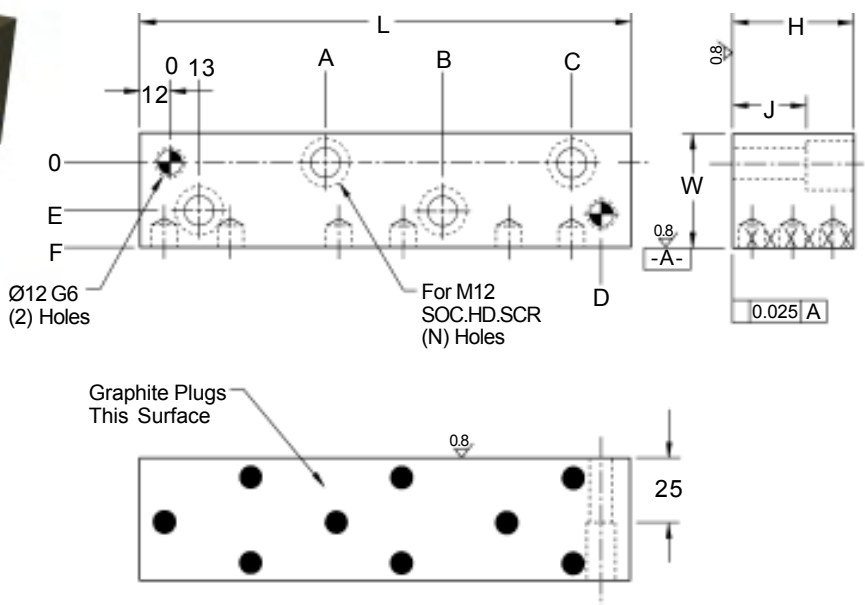


Guide Blocks

Solid-Steel Self-Lubricating

Metric Dimensions - 45mm Wide

AUTOMOTIVE METRIC
NAAMS STANDARD



Notes & Specifications:

Screw hole locations ± 0.25

Dowel hole locations ± 0.10

Break all sharp edges $0.4 \times 45^\circ$

Material, steel.

Surface harden cross-hatched areas.

45mm WIDE																							
PART NUMBER	(N) HOLES	L	A	B	C	D	E	F	H	J	W	PART NUMBER	(N) HOLES	L	A	B	C	D	E	F	H	J	W
G014007	2	75	-	-	38	51	18	33	40	15		G016007	2	75	-	-	38	51	18	33	60	30	
G014010	2	100	-	-	63	76						G016010	2	100	-	-	63	76					
G014012	3	125	-	50.0	88	101						G016012	3	125	-	50.5	88	101					
G014015	3	150	-	63	113	126						G016015	3	150	-	63	113	126					
G014017	3	175	-	75.5	138	151						G016017	3	175	-	75.5	138	151					
G014020	4	200	63	113	163	176						G016020	4	200	63	113	163	176					
G014022	4	225	73	128	188	201						G016022	4	225	73	128	188	201					
G014025	4	250	83	153	213	226						G016025	4	250	83	153	213	226					
G014507	2	75	-	-	38	51	18	33	45	25	45	G017507	2	75	-	-	38	51	18	33	75	30	
G014510	2	100	-	-	63	76						G017510	2	100	-	-	63	76					
G014512	3	125	-	50.5	88	101						G017512	3	125	-	50.5	88	101					
G014515	3	150	-	63	113	126						G017515	3	150	-	63	113	126					
G014517	3	175	-	75.5	138	151						G017517	3	175	-	75.5	138	151					
G014520	4	200	63	113	163	176						G017520	4	200	63	113	163	176					
G014522	4	225	73	128	188	201						G017522	4	225	73	128	188	201					
G014525	4	250	83	153	213	226						G017525	4	250	83	153	213	226					
G015007	2	75	-	-	38	51	18	33	50	30		Applying a film or mist of light machine oil on new self-lubricating parts before use will enhance the self-lubricating properties. (Do not use grease on graphite-plugged surfaces.)											
G015010	2	100	-	-	63	76																	
G015012	3	125	-	50.5	88	101																	
G015015	3	150	-	63	113	126																	
G015017	3	175	-	75.5	138	151																	
G015020	4	200	63	113	163	176																	
G015022	4	225	73	128	188	201																	
G015025	4	250	83	153	213	226																	

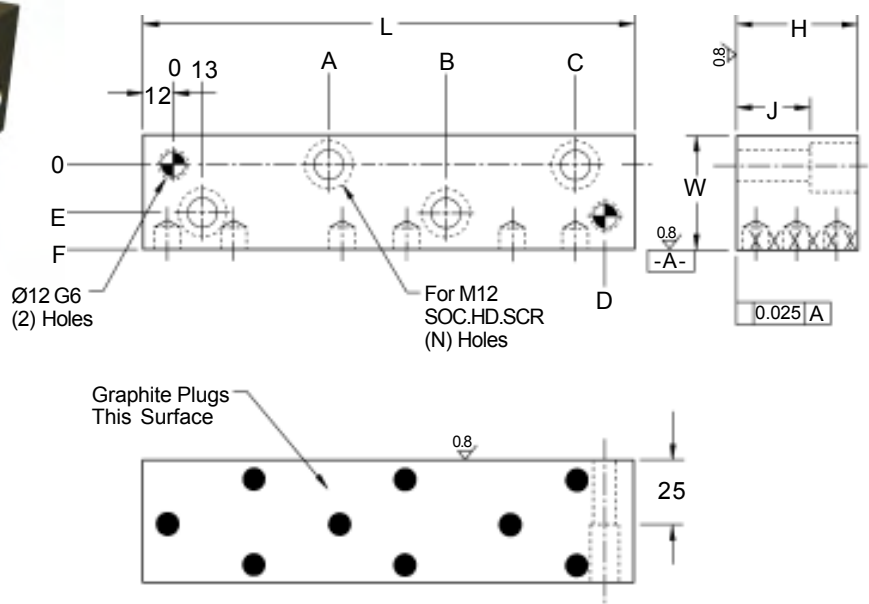


*AUTOMOTIVE METRIC
NAAMS STANDARD*

Guide Blocks

Solid-Steel Self-Lubricating

Metric Dimensions - 60mm Wide



Notes & Specifications:

Screw hole locations ± 0.25

Dowel hole locations ± 0.10

Break all sharp edges $0.4 \times 45^\circ$

Material, steel.

Surface harden cross-hatched areas.

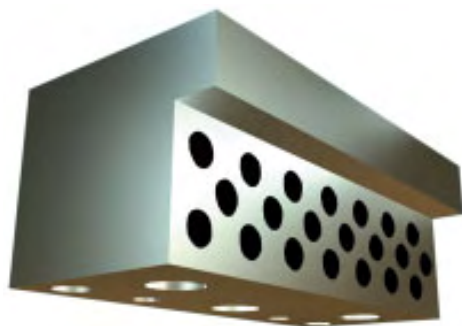
60mm WIDE																							
PART NUMBER	(N) HOLES	L	A	B	C	D	E	F	H	J	W	PART NUMBER	(N) HOLES	L	A	B	C	D	E	F	H	J	W
G025007	2	75	-	-	38	51	33	48	50	30	60	G028007	2	75	-	-	38	51	33	48	80	30	60
G025010	2	100	-	-	63	76						G028010	2	100	-	-	63	76					
G025012	3	125	-	50.0	88	101						G028012	3	125	-	50.5	88	101					
G025015	3	150	-	63	113	126						G028015	3	150	-	63	113	126					
G025017	3	175	-	75.5	138	151						G028017	3	175	-	75.5	138	151					
G025020	4	200	63	113	163	176						G028020	4	200	63	113	163	176					
G025022	4	225	73	128	188	201	33	48	60	30		G028022	4	225	73	128	188	201	33	48	100	30	
G025025	4	250	83	153	213	226						G028025	4	250	83	153	213	226					
G026007	2	75	-	-	38	51						G020007	2	75	-	-	38	51					
G026010	2	100	-	-	63	76						G020010	2	100	-	-	63	76					
G026012	3	125	-	50.5	88	101						G020012	3	125	-	50.5	88	101					
G026015	3	150	-	63	113	126						G020015	3	150	-	63	113	126					
G026017	3	175	-	75.5	138	151	33	48	60	30		G020017	3	175	-	75.5	138	151					
G026020	4	200	63	113	163	176						G020020	4	200	63	113	163	176					
G026022	4	225	73	128	188	201						G020022	4	225	73	128	188	201					
G026025	4	250	83	153	213	226						G020025	4	250	83	153	213	226					

Please check our website www.anchorlamina.com for the latest technical information.



Light-Duty Keeper Blocks Solid-Steel Self-Lubricating

Inch Dimensions



Applying a film or mist of light machine oil on new self-lubricating parts before use will enhance the self-lubricating properties.

(Do not use grease on graphite-plugged surfaces.)

GENERAL DIMENSIONS ± 0.005				
L	C	D	E	F
3.00	2.00	2.500	-	-
4.00	3.00	3.500	-	-
5.00	2.500	4.000	4.500	-
6.00	3.000	5.000	5.500	-
8.00	2.380	5.620	7.000	7.500
10.00	3.500	6.500	9.000	9.500

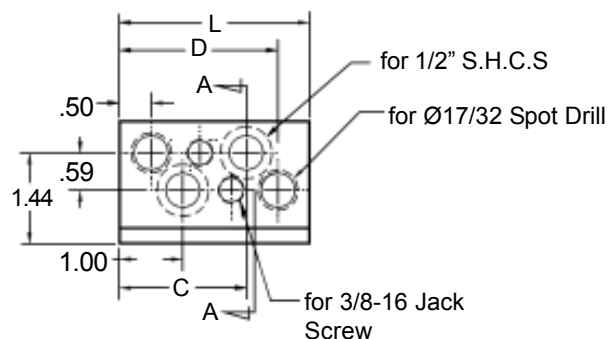
PART NUMBER	L	H ± 0.005	J ± 0.001	K	# MTG HOLES	PART NUMBER	L	H ± 0.005	J ± 0.001	K	# MTG HOLES
L8K24G	3.00	1.44	1.000	0.75	2	L12K24G	3.00	1.94	1.500	1.00	2
L8K32G	4.00				2	L12K32G	4.00				2
L8K40G	5.00				3	L12K40G	5.00				3
L8K48G	6.00				3	L12K48G	6.00				3
L8K64G	8.00				4	L12K64G	8.00				4
L8K80G	10.00				4	L12K80G	10.00				4
L10K24G	3.00	1.69	1.250	1.00	2	L14K24G	3.00	2.44	1.750	1.25	2
L10K32G	4.00				2	L14K32G	4.00				2
L10K40G	5.00				3	L14K40G	5.00				3
L10K48G	6.00				3	L14K48G	6.00				3
L10K64G	8.00				4	L14K64G	8.00				4
L10K80G	10.00				4	L14K80G	10.00				4

- Chromium Steel AISI-4150 or 6150
- Wear area is surface hardened - RC 56-62
- All blocks are self-lubricated with graphite oil plugs
- All blocks are precision ground
- All tolerances not noted are held to ± 0.010 and are non-cumulative
- Easily altered if necessary
- Lamina logo and part number is etched/stamped on part

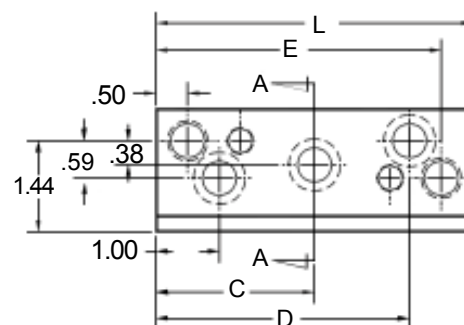


Light-Duty Keeper Blocks Solid-Steel Self-Lubricating

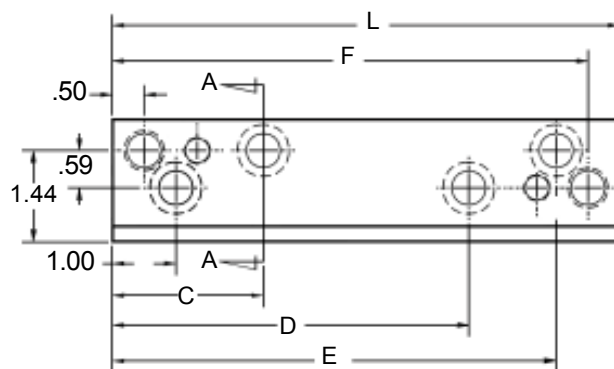
Inch Dimensions



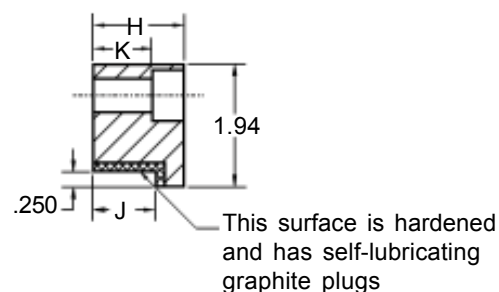
FOR 3 AND 4 INCH LENGTHS



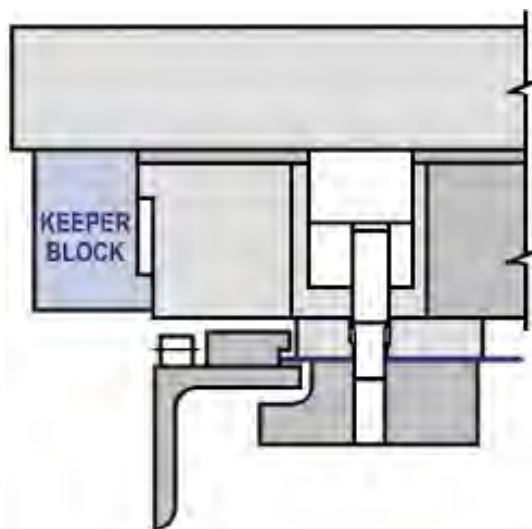
FOR 5 AND 6 INCH LENGTHS



FOR 8 TO 10 INCH LENGTHS



TYPICAL SECTION A—A

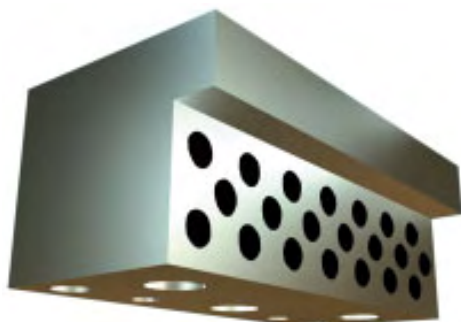


**Keeper Block as
Side Guide**



Medium-Duty Keeper Blocks Solid-Steel Self-Lubricating

Inch Dimensions



Applying a film or mist of light machine oil on new self-lubricating parts before use will enhance the self-lubricating properties.

(Do not use grease on graphite-plugged surfaces.)

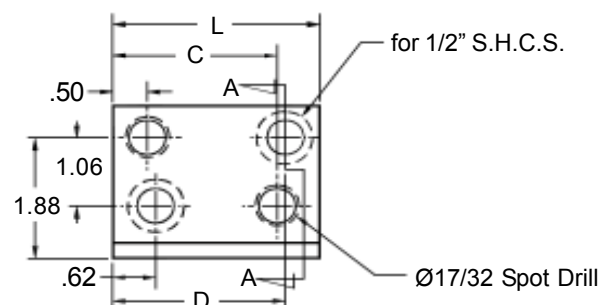
GENERAL DIMENSIONS					
L	±.005				
	C	D	E	F	G
3.00	2.380	2.500	-	-	-
4.00	2.120	3.380	3.500	-	-
5.00	2.120	4.380	4.500	-	-
6.00	2.120	5.380	5.500	-	-
8.00	2.120	5.880	7.380	7.500	-
10.00	2.120	5.380	7.880	9.380	9.500

PART NUMBER	L	±.005	±.001	K	# MTG HOLES	PART NUMBER	L	±.005	±.001	K	# MTG HOLES
		H	J					H	J		
L8KM24G	3.00	1.62	1.000	1.00	2	L16KM24G	3.00	2.69	2.000	1.75	2
L8KM32G	4.00				3	L16KM32G	4.00				3
L8KM40G	5.00				3	L16KM40G	5.00				3
L8KM48G	6.00				3	L16KM48G	6.00				3
L8KM64G	8.00				4	L16KM64G	8.00				4
L8KM80G	10.00				5	L16KM80G	10.00				5
L10KM24G	3.00	1.88	1.250	1.25	2	L18KM24G	3.00	2.88	2.250	1.75	2
L10KM32G	4.00				3	L18KM32G	4.00				3
L10KM40G	5.00				3	L18KM40G	5.00				3
L10KM48G	6.00				3	L18KM48G	6.00				3
L10KM64G	8.00				4	L18KM64G	8.00				4
L10KM80G	10.00				5	L18KM80G	10.00				5
L12KM24G	3.00	2.12	1.500	1.50	2	L20KM24G	3.00	3.25	2.500	1.75	2
L12KM32G	4.00				3	L20KM32G	4.00				3
L12KM40G	5.00				3	L20KM40G	5.00				3
L12KM48G	6.00				3	L20KM48G	6.00				3
L12KM64G	8.00				4	L20KM64G	8.00				4
L12KM80G	10.00				5	L20KM80G	10.00				5
L14KM24G	3.00	2.44	1.750	1.75	2	L22KM24G	3.00	3.38	2.750	1.63	2
L14KM32G	4.00				3	L22KM32G	4.00				3
L14KM40G	5.00				3	L22KM40G	5.00				3
L14KM48G	6.00				3	L22KM48G	6.00				3
L14KM64G	8.00				4	L22KM64G	8.00				4
L14KM80G	10.00				5	L22KM80G	10.00				5

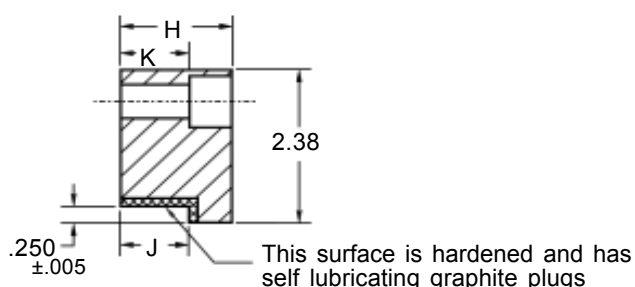


Medium-Duty Keeper Blocks Solid-Steel Self-Lubricating

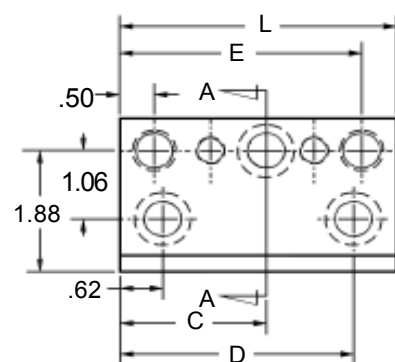
Inch Dimensions



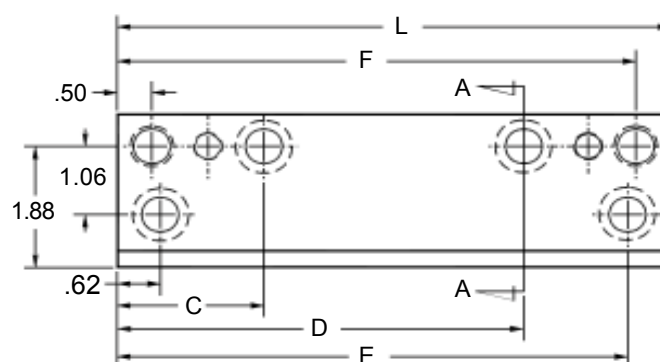
For 3 Inch Length



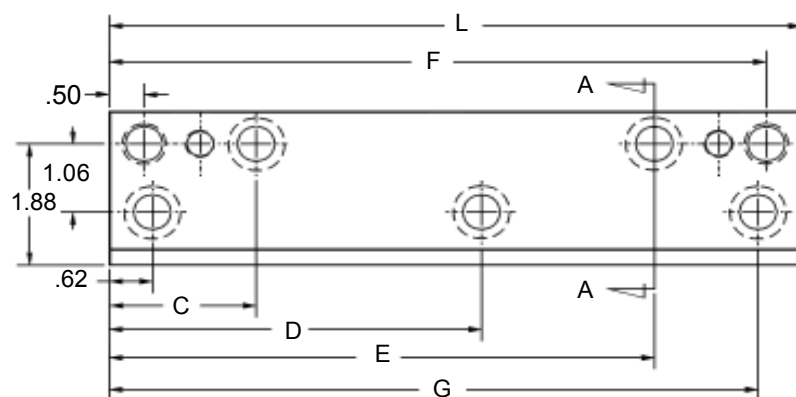
Typical Section A—A



For 4 to 6 Inch Length



For 8 Inch Length

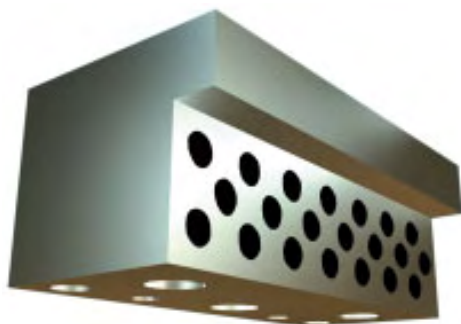


For 10 Inch Length



Heavy-Duty Keeper Blocks Solid-Steel Self-Lubricating

Inch Dimensions



GENERAL DIMENSIONS				
L	±.005			
	D	E	F	G
4.00	3.250	3.380	-	-
5.00	4.250	4.380	-	-
6.00	5.250	5.380	-	-
8.00	5.750	7.250	7.380	-
10.00	5.250	7.750	9.250	9.380
12.00	5.750	9.750	11.250	11.380

Applying a film or mist of light machine oil on new self-lubricating parts before use will enhance the self-lubricating properties.

(Do not use grease on graphite-plugged surfaces.)

PART NUMBER	L	±.005	±.001	K	# MTG HOLES	PART NUMBER	L	±.005	+ .001	K	# MTG HOLES
		H	J					H	J		
L14KH32G	4.00	2.62	1.750	1.50	3	L20KH32G	4.00	3.38	2.500	1.75	3
L14KH40G	5.00				3	L20KH40G	5.00				3
L14KH48G	6.00				3	L20KH48G	6.00				3
L14KH64G	8.00				4	L20KH64G	8.00				4
L14KH80G	10.00				5	L20KH80G	10.00				5
L14KH96G	12.00				5	L20KH96G	12.00				5
L16KH32G	4.00	2.88	2.000	1.50	3	L22KH32G	4.00	3.62	2.750	2.25	3
L16KH40G	5.00				3	L22KH40G	5.00				3
L16KH48G	6.00				3	L22KH48G	6.00				3
L16KH64G	8.00				4	L22KH64G	8.00				4
L16KH80G	10.00				5	L22KH80G	10.00				5
L16KH96G	12.00				5	L22KH96G	12.00				5
L18KH32G	4.00	3.12	2.250	1.50	3	L24KH32G	4.00	3.88	3.000	2.25	3
L18KH40G	5.00				3	L24KH40G	5.00				3
L18KH48G	6.00				3	L24KH48G	6.00				3
L18KH64G	8.00				4	L24KH64G	8.00				4
L18KH80G	10.00				5	L24KH80G	10.00				5
L18KH96G	12.00				5	L24KH96G	12.00				5

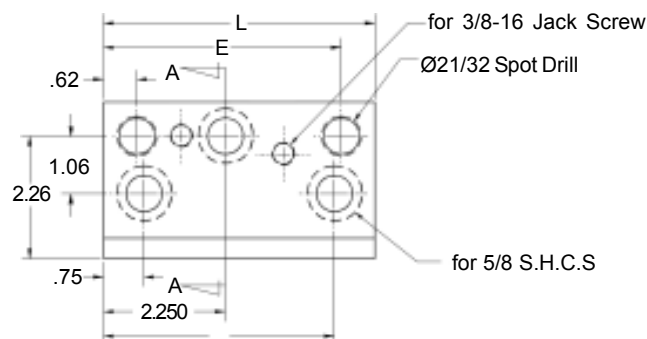
- Chromium Steel AISI-4150 or 6150
- Wear area is surface hardened - RC 56-62
- All blocks are self-lubricated with graphite oil plugs
- All blocks are precision ground

- All tolerances not noted are held to ±.010 and are non-cumulative
- Easily altered if necessary
- Lamina logo and part number is etched/stamped on part

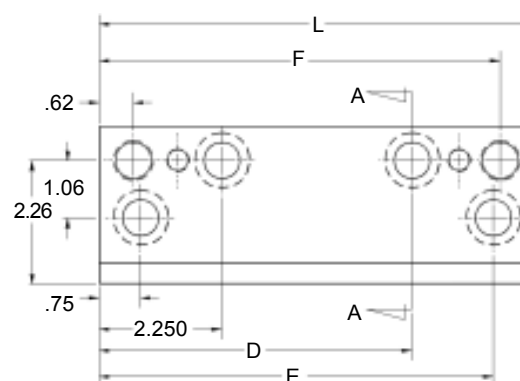


Heavy-Duty Keeper Blocks Solid-Steel Self-Lubricating

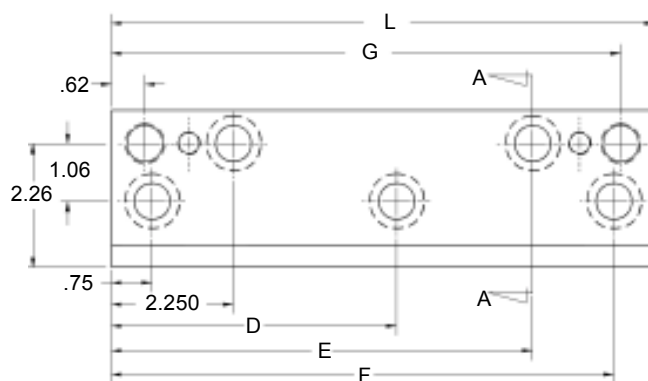
Inch Dimensions



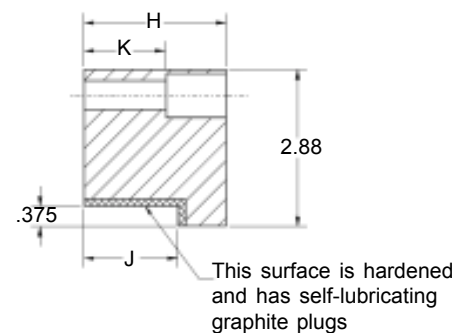
For 4 to 6 Inch Length



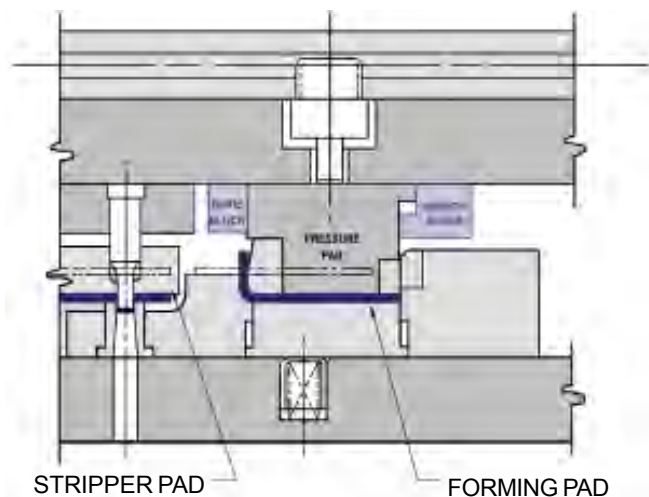
For 8 Inch Length



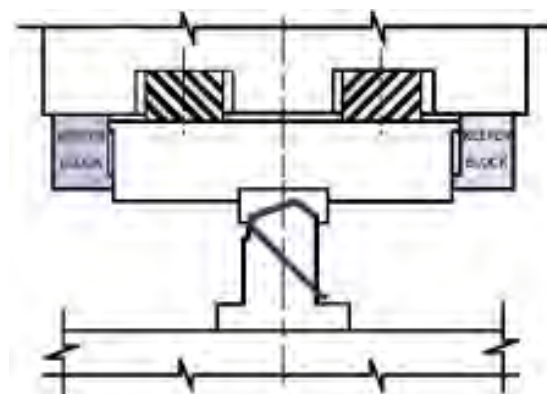
For 200mm & 250mm Length



Typical Section A—A



Keeper Blocks help keep the load aligned for a smooth running die operation.



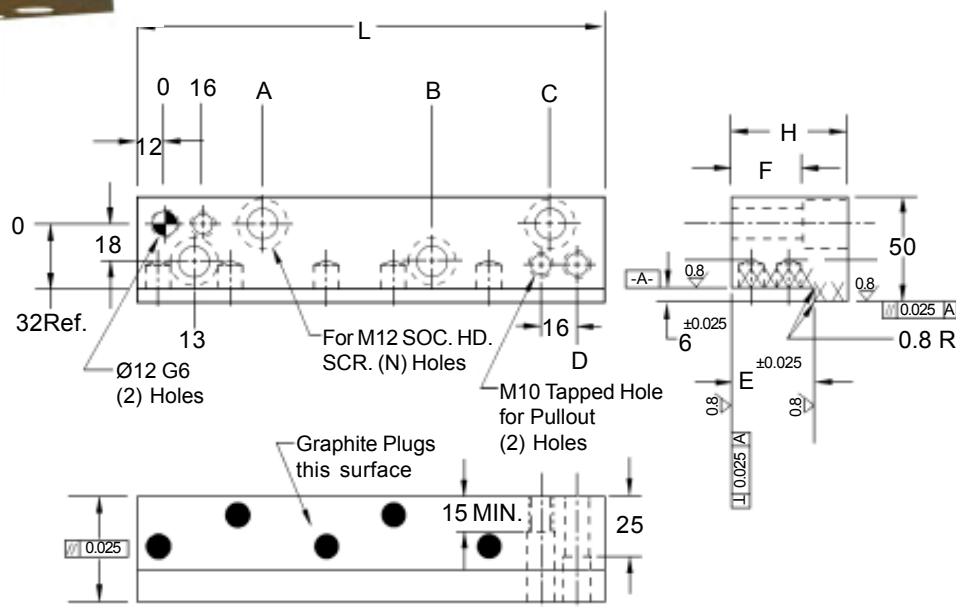
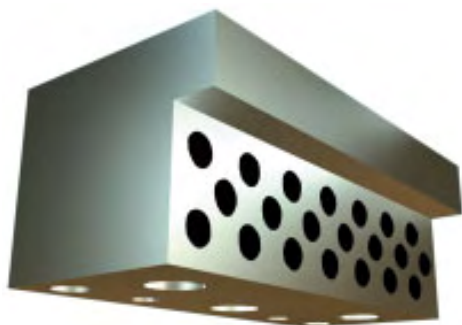


AUTOMOTIVE METRIC
NAAMS STANDARD

6mm Keeper Blocks

Solid-Steel Self-Lubricating

Metric Dimensions



Notes & Specifications:

Screw hole locations ± 0.25

Dowel hole locations ± 0.10

Break all sharp edges $0.4 \times 45^\circ$

Material, steel.

Surface harden cross-hatched areas.

PART NUMBER	(N) HOLES	L	A	B	C	D	E	F	H	PART NUMBER	(N) HOLES	L	A	B	C	D	E	F	H
R012507	2	75	-	-	38	51	25	15	37	R013707	2	75	-	-	38	51	37	30	50
R012510	2	100	-	-	63	76				R013710	2	100	-	-	63	76			
R012515	3	150	-	63	113	126				R013715	3	150	-	63	113	126			
R012520	4	200	63	113	163	176				R013720	4	200	63	113	163	176			
R013207	2	75	-	-	38	51	32	15	45	R014810	2	100	-	-	63	76	48	30	60
R013210	2	100	-	-	63	76				R014815	3	150	-	63	113	126			
R013215	3	150	-	63	113	126				R014820	4	200	63	113	163	176			
R013220	4	200	63	113	163	176				R014825	4	250	63	153	213	226			

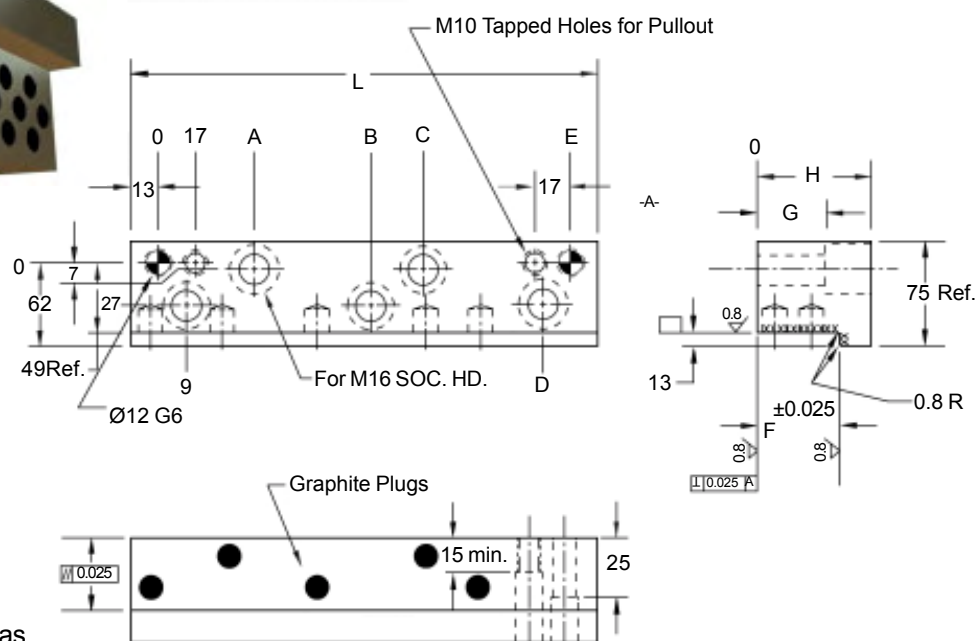
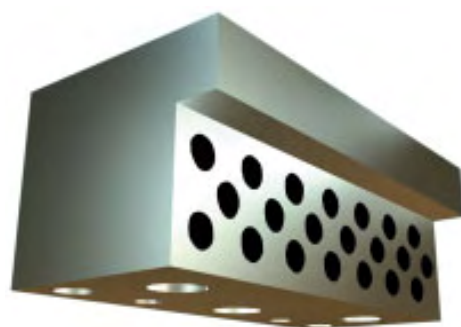


13mm Keeper Blocks

Solid-Steel Self-Lubricating

Metric Dimensions

AUTOMOTIVE METRIC
NAAMS STANDARD



Notes & Specifications:

Screw hole locations ± 0.25
 Dowel hole locations ± 0.10
 Break all sharp edges $0.4 \times 45^\circ$
 Material, steel.
 Surface harden cross-hatched areas.

PART NUMBER	(N) HOLES	L	A	B	C	D	E	F	G	H	PART NUMBER	(N) HOLES	L	A	B	C	D	E	F	G	H
R023510	2	100	-	-	-	65	74	35	25	50	R025510	2	100	-	-	-	65	74	55	35	80
R023512	3	125	49.5	-	-	90	99				R025512	3	125	49.5	-	-	90	99			
R023515	3	150	62	-	-	115	124				R025515	3	150	62	-	-	115	124			
R023520	4	200	62	-	112	165	174				R025520	4	200	62	-	112	165	174			
R023522	5	225	62	99.5	137	190	199				R025522	5	225	62	99.5	137	190	199			
R023525	5	250	62	112	162	215	224				R025525	5	250	62	112	162	215	224			
R023530	5	300	62	137	212	265	274				R025530	5	300	62	137	212	265	274			
R024010	2	100	-	-	-	65	74	40	25	60	R026510	2	100	-	-	-	65	74	65	45	90
R024012	3	125	49.5	-	-	90	99				R026512	3	125	49.5	-	-	90	99			
R024015	3	150	62	-	-	115	124				R026515	3	150	62	-	-	115	124			
R024020	4	200	62	-	112	165	174				R026520	4	200	62	-	112	165	174			
R024022	5	225	62	99.5	137	190	199				R026522	5	225	62	99.5	137	190	199			
R024025	5	250	62	112	162	215	224				R026525	5	250	62	112	162	215	224			
R024030	5	300	62	137	212	265	274				R026530	5	300	62	137	212	265	274			
R025010	2	100	-	-	-	65	74	50	30	70	R027510	2	100	-	-	-	65	74	75	45	100
R025012	3	125	49.5	-	-	90	99				R027512	3	125	49.5	-	-	90	99			
R025015	3	150	62	-	-	115	124				R027515	3	150	62	-	-	115	124			
R025020	4	200	62	-	112	165	174				R027520	4	200	62	-	112	165	174			
R025022	5	225	62	99.5	137	190	199				R027522	5	225	62	99.5	137	190	199			
R025025	5	250	62	112	162	215	224				R027525	5	250	62	112	162	215	224			
R025030	5	300	62	137	212	265	274				R027530	5	300	61	137	212	265	274			



AUTOMOTIVE METRIC
NAAMS STANDARD

75mm "U" & "V" Blocks



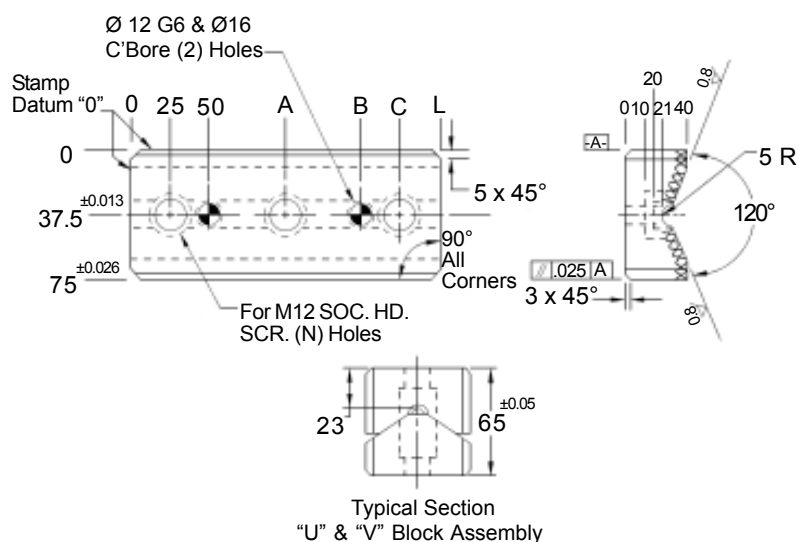
Notes & Specifications:

Material, steel

Surface harden cross-hatched areas.

Tolerance between screw holes ± 0.12

Tolerance between dowel holes ± 0.10



Female "U" Block					
NAAMS CODE	L	A	B	C	N
G217515	150	-	100	125	2
G217520	200	-	150	175	2
G217525	250	125	200	225	3
G217530	300	150	250	275	3

Notes & Specification:

Material, steel or bronze

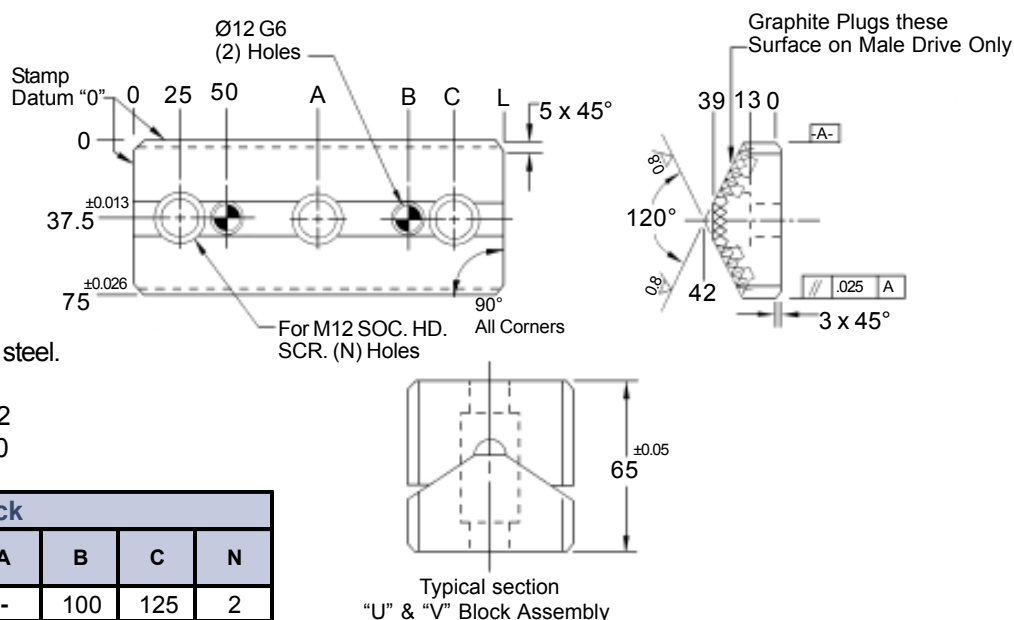
Use code X for steel

Use Code Y for bronze

Surface harden cross-hatched areas on steel.

Tolerance between screw holes ± 0.12

Tolerance between dowel holes ± 0.10



Male "V" Block						
NAAMS CODE(X)	NAAMS CODE(Y)	L	A	B	C	N
G227515	G237515	150	-	100	125	2
G227520	G237520	200	-	150	175	2
G227525	G237525	250	125	200	225	3
G227530	G237530	300	150	250	275	3



AUTOMOTIVE METRIC
NAAMS STANDARD

125mm "U" & "V" Blocks

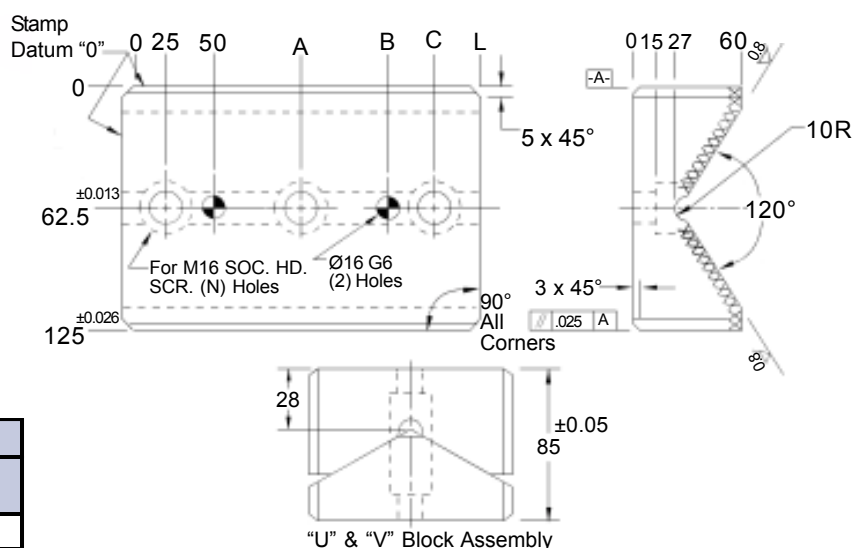


Notes & Specifications:

Material, steel
 Surface harden cross-hatched areas.

Tolerance between screw holes ± 0.12
 Tolerance between dowel holes ± 0.10

Female "U" Block					
NAAMS CODE	L	A	B	C	N
G311215	150	-	100	125	2
G311220	200	-	150	175	2
G311225	250	125	200	225	3
G311230	300	150	250	275	3

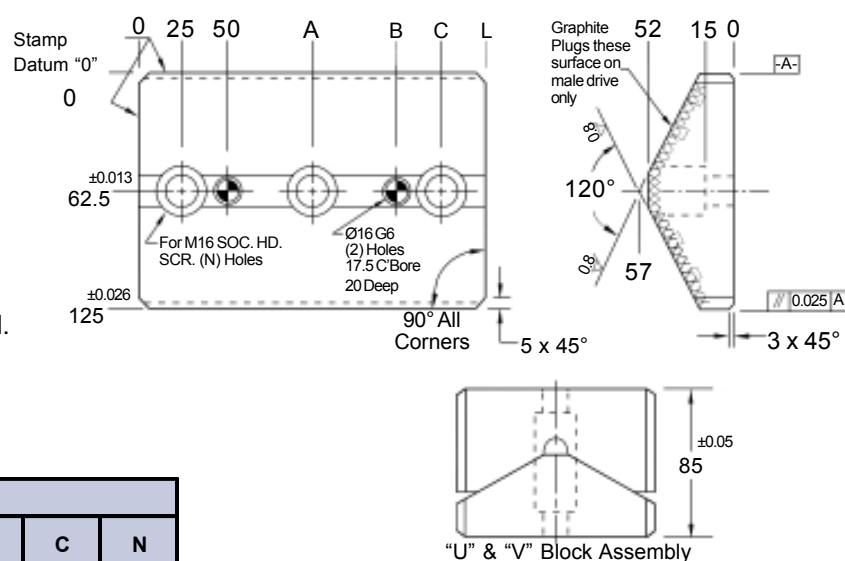


Notes & Specifications:

Material, steel or bronze
 Use code X for steel
 Use code Y for bronze
 Surface harden cross-hatched areas on steel.

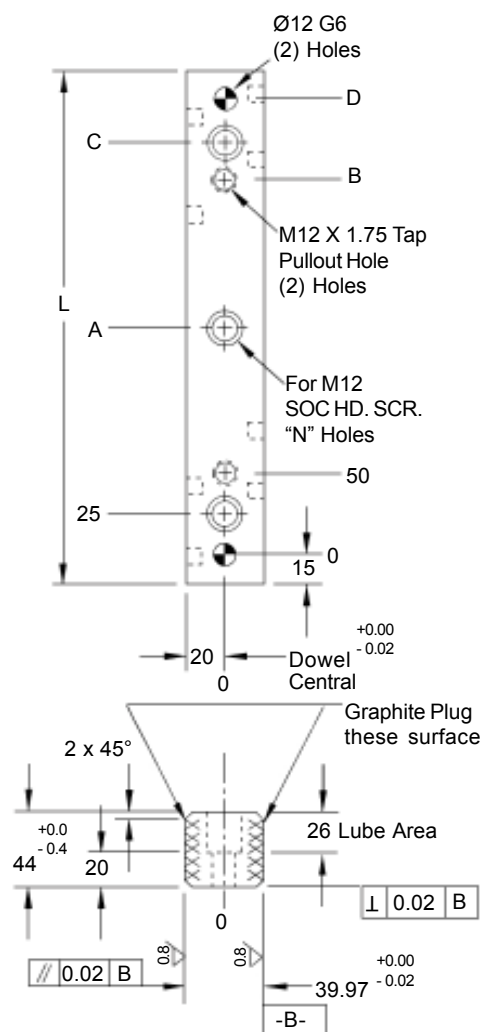
Tolerance between screw holes ± 0.12
 Tolerance between dowel holes ± 0.10

Male "V" Block						
NAAMS CODE(X)	NAAMS CODE(Y)	L	A	B	C	N
G321215	G331215	150	-	100	125	2
G321220	G331220	200	-	150	175	2
G321225	G331225	250	125	200	225	3
G321230	G331230	300	150	250	275	3





CENTER KEY (G42 & G43)



Use Code X for Steel, Code Y for Bronze

NAAMS CODE(X)	NAAMS CODE(Y)	A	B	C	D	L	"N"
G419020	-	-	120	145	170	200	2
G419030	-	135	220	245	270	300	3
G424020	G434020	-	120	145	170	200	2
G424030	G434030	135	220	245	270	300	3

Tolerance between screw holes ± 0.25

Tolerance between dowel holes ± 0.10



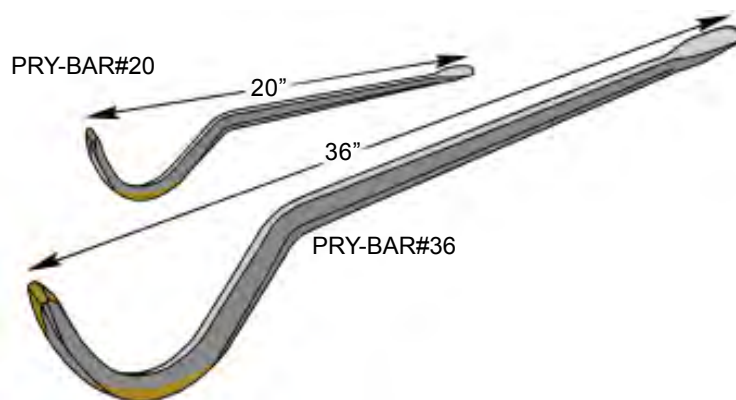
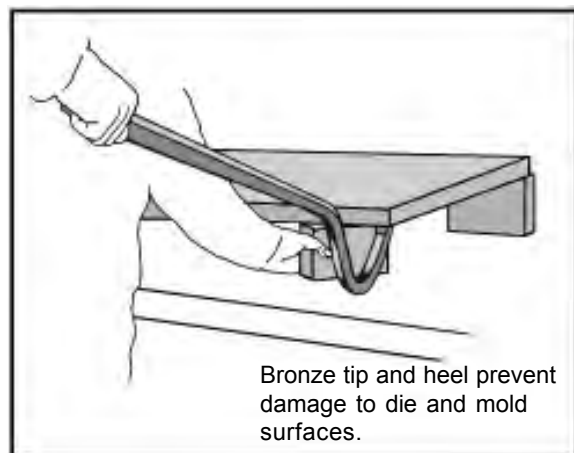
Notes



PRY BARS

HIGH CARBON FORGED STEEL TOOLS

Rugged in construction and specially designed for easy handling, long life, and demanding professional use.



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CONVERSION TABLES

INCHES TO MILLIMETERS .03937" = 1mm

Inches		mm		Inches		mm		Inches		mm		Inches		mm	
1/64	0.001	0.0254	11/64	0.1718	4.3660		0.4600	11.684	3/4	0.7500	19.050				
	0.002	0.0508	3/16	0.1875	4.7630	15/32	0.4687	11.906	49/64	0.7656	19.447				
	0.003	0.0762		0.1900	4.8260	31/64	0.4843	12.303		0.7700	19.558				
	0.004	0.1016	13/64	0.2031	5.1590		0.4900	12.446	25/32	0.7810	19.844				
	0.005	0.1270	7/32	0.2187	5.5560	1/2	0.5000	12.700	51/64	0.7968	20.241				
	0.006	0.1524	15/64	0.2343	5.9630		0.5100	12.954		0.8000	20.320				
	0.007	0.1778		0.2400	6.0960	33/64	0.5156	13.097	13/16	0.8125	20.638				
	0.008	0.2032		0.250	6.3500		0.5200	13.208		0.8200	20.828				
	0.009	0.2286	17/64	0.2656	6.7470	17/32	0.5312	13.494	53/64	0.8280	21.034				
	0.010	0.2540		0.2700	6.8580		0.5400	13.716		0.8400	21.336				
1/32	0.0156	0.3970	9/32	0.2812	7.1440	35/64	0.5460	13.891	27/32	0.8437	21.431				
	0.020	0.5080		0.290	7.3660	9/16	0.5625	14.288		0.8500	21.590				
	0.030	0.7620	19/64	0.2968	7.5410	37/64	0.5780	14.684	55/64	0.8594	21.828				
3/64	0.0312	0.7940	5/16	0.3125	7.9380	19/32	0.5937	15.081		0.8700	22.098				
	0.040	1.0160		0.3200	8.1280		0.6000	15.240	7/8	0.8750	22.225				
	0.0469	1.1910	21/64	0.3280	8.3340	39/64	0.6090	15.478		0.8800	22.352				
1/16	0.050	1.2700	11/32	0.3437	8.7310		0.6200	15.748		0.8900	22.606				
	0.060	1.5240		0.350	8.8900	5/8	0.6250	15.875	57/64	0.8906	22.622				
	0.0625	1.5880	23/64	0.3590	9.1280		0.6300	16.002		0.9000	22.860				
	0.070	1.7780		0.3600	9.1440		0.6400	16.256	29/32	0.9060	23.019				
	0.0781	1.9840		0.3700	9.3980	41/64	0.6406	16.272	59/64	0.9218	23.416				
3/32	0.080	2.0320	3/8	0.3750	9.5250		0.6500	16.510		0.9300	23.622				
	0.090	2.0860		0.3800	9.6520	21/32	0.6560	16.669	15/16	0.9375	23.813				
	0.094	2.3810		0.3900	9.9060	43/64	0.6718	17.066		0.9500	24.130				
	0.100	2.5400	25/64	0.3906	9.9220		0.6800	17.272	61/64	0.9530	24.209				
7/64	0.1093	2.7760		0.4000	10.1600	11/16	0.6875	17.463		0.9600	24.384				
	0.120	3.0480	13/32	0.4062	10.3190	45/64	0.7030	17.859	31/32	0.9687	24.606				
1/8	0.125	3.1750	27/64	0.4218	10.7160		0.7100	18.034		0.9800	24.892				
9/64	0.1406	3.5720	7/16	0.4375	11.1130	23/32	0.7187	18.256	63/64	0.9843	25.003				
	0.150	3.8100		0.4500	11.4300		0.7300	18.542		0.9900	25.146				
5/32	0.1562	3.9690	29/64	0.4530	11.5090	47/64	0.7343	18.653		1.0000	25.400				

MILLIMETERS TO INCHES .03937" = 1mm

mm	Inches	mm	Inches	mm	Inches	mm	Inches
1	0.03937	26	1.02362	51	2.00787	76	2.99213
2	0.07874	27	1.06299	52	2.04724	77	3.03150
3	0.11811	28	1.10236	53	2.08661	78	3.07087
4	0.15748	29	1.14173	54	2.12598	79	3.11024
5	0.19685	30	1.18110	55	2.16535	80	3.14961
6	0.23622	31	1.22047	56	2.20472	81	3.18898
7	0.27559	32	1.25984	57	2.24409	82	3.22835
8	0.31496	33	1.29921	58	2.28346	83	3.26772
9	0.35433	34	1.33858	59	2.32283	84	3.30709
10	0.39370	35	1.37795	60	2.36220	85	3.34646
11	0.43307	36	1.41732	61	2.40157	86	3.38583
12	0.47244	37	1.45669	62	2.44094	87	3.42520
13	0.51181	38	1.49606	63	2.48031	88	3.46457
14	0.55118	39	1.53543	64	2.51969	89	3.50394
15	0.59055	40	1.57480	65	2.55906	90	3.54331
16	0.62992	41	1.61417	66	2.59843	91	3.58268
17	0.66929	42	1.65354	67	2.63780	92	3.62205
18	0.70866	43	1.69291	68	2.67717	93	3.66142
19	0.74803	44	1.73228	69	2.71654	94	3.70079
20	0.78740	45	1.77165	70	2.75591	95	3.74016
21	0.82677	46	1.81102	71	2.79528	96	3.77953
22	0.86614	47	1.85039	72	2.83465	97	3.81890
23	0.90551	48	1.88976	73	2.87402	98	3.85827
24	0.94488	49	1.92913	74	2.91339	99	3.89764
25	0.98425	50	1.96850	75	2.95276	100	3.93701

