





Magna-Lok®

The World's Most Reliable Blind Fastening System.

> Solid circle lock Fast installation Vibration resistant

> > 3/16"-1/2"























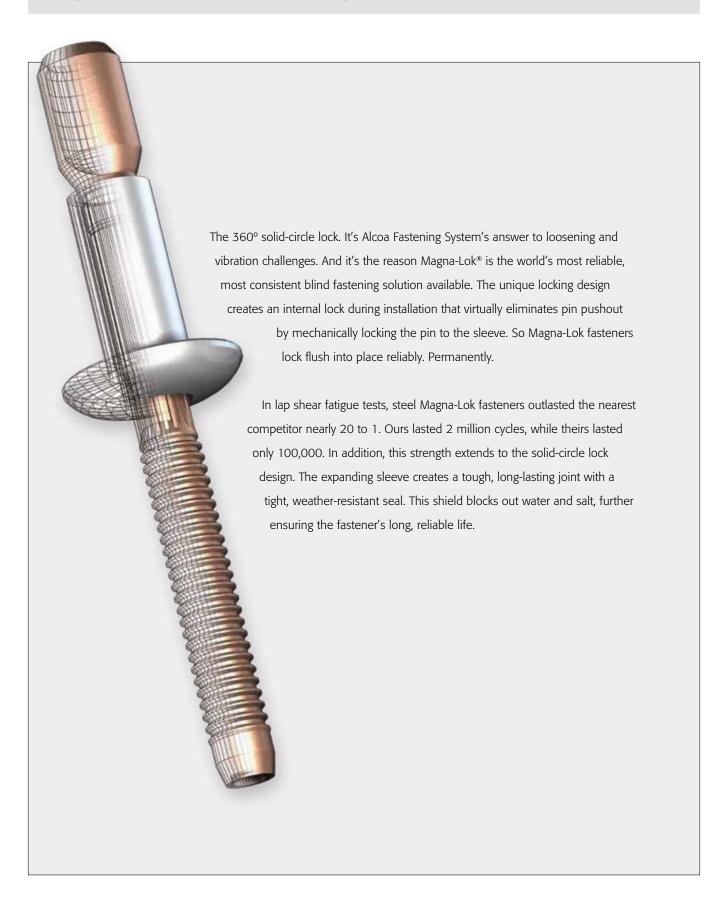




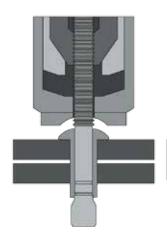


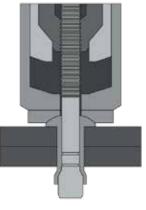
Huck Magna-Lok®

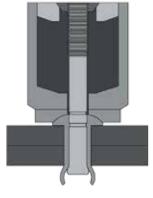
Magna-Lok®. For a variety of applications, nothing else will do.

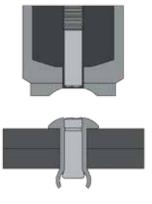


Installation Sequence









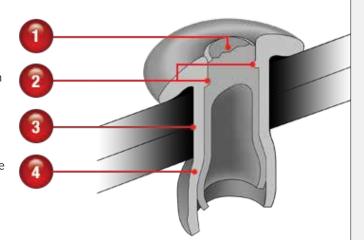
Insert the fastener into the hole and slip the installation tool over the pintail.

Press the trigger to initiate pulling action. As the tool pulls on the pintail, the pin (mandrel) expands the sleeve and begins drawing the work pieces together. Continued pulling on the pintail draws the hollow pin head inside sleeve. The pin extrudes itself inside the sleeve and the work pieces completely expand the sleeve to match the hole of the work pieces.

A solid circle lock between the pin and sleeve is formed just prior to the pin breaking flush with the sleeve head, completing the installation.

Secure, fast installation.

- 1. Flush pin break eliminates grinding and filling, leaving an even surface.
- 2. Unique solid-circle lock ensures maximum strength and resistance to vibration. The potential for pin push-out is virtually eliminated.
- 3. Excellent gap pull-out and high retained clamp.
- **4.** The sleeve expands during installation to fill the hole and create a moisture-resistant joint.

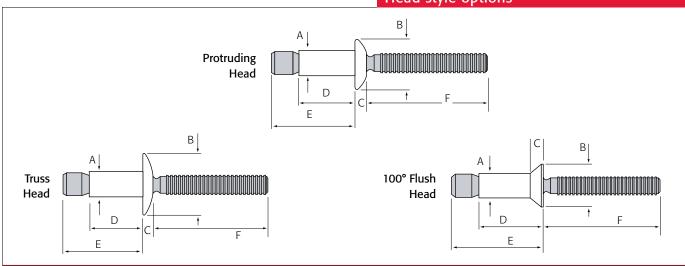


Magna-Lok® benefits

- Unmatched installation speed
- Low overall installed cost
- Vibration resistance
- Weather-resistant seal
- Quiet non-torque tools
- No repetitive stress injuries
- Eliminates need for secondary operations
- No special training or skills required for operators

Data and dimensions

Head style options



Protruding Head Dimensions											
Diameter	Steel (R)	Aluminum (B)	Stainless (U)	Grip Range	Hole Size	A Nom	B Max	C Max	D Max	E Max	F Min
	MGLP-R6-4	MGLP-B6-4	MGLP-U6-4	.062270	.191201	.187	.385/.392(U)	.085/.101(U)	.415	.733/.728(U)	.980/.969(U)
6 (3/16")	MGLP-R6-7	MGLP-B6-7	MGLP-U6-7	.214437	.191201	.187	.385/.392(U)	.085 /.101(U)	.582	.892/.889(U)	0.968/.955(U)
0 (3/10)	MGLP-R6-E	MGLP-B6-E	MGLP-U6-E	.062437	.191201	.187	.385/.392(U)	.085 /.101(U)	.582	1.031/1.026(U)	.991/.98(U)
	MGLP-R6-10		MGLP-U6-10	.455665	.191201	.187	.385/.392(U)	.085 /.101(U)	.810	1.106	.941/.925 (U)
	MGLP-R8-6	MGLP-B8-6	MGLP-U8-6	.080375	.261272	.253	.530	.120	.560	.984	1.043/1.046(B)
	MGLP-R8-10	MGLP-B8-10	MGLP-U8-10	.350625	.261272	.253	.530	.120	.810	1.234	1.043/1.046(B)
8 (1/4")	MGLP-R8-14	MGLP-B8-14		.580875	.261272	.253	.530	.120	1.060	1.484	1.043/1.046(B)
0 (1/4)	MGLP-R8-18			.830 - 1.125	.261272	.253	.530	.120	1.310	1.734	1.043
	MGLP-R8-22	MGLP-B8-22		1.080 - 1.375	.261272	.253	.530	.120	1.560	1.984	1.295
	MGLP-R8-E	MGLP-B8-E	MGLP-U8-E	.080625	.261272	.253	.530	.120	.810	1.419/1.415(B)	1.043/1.048(B)
12 (3/8")	MGLP-R12-12	MGLP-B12-12	MGLP-4U12-12	.120625	.392408	.386	.793	.175	.845	1.476	1.545
12 (3/6)	MGLP-R12-18	MGLP-B12-18	MGLP-4U12-18	.625 - 1.125	.392408	.386	.793	.175	1.410	2.101	1.475
16 (1/2")	MGLP-R16-12	MGLP-B16-12		.160750	.531563	.514	1.060	.240	1.406	2.268	1.208

Truss Head Dimensions											
Diameter	Steel (R)	Aluminum (B)	Stainless (U)	Grip Range	Hole Size	A Nom	B Max	C Max	D Max	E Max	F Min
	MGLT-R6-4	MGLT-B6-4	MGLT-U6-4	.062270	.191201	.187	.530	.095/.104(U)	.415	.733	.973/.964(U)
6 (3/16")	MGLT-R6-7	MGLT-B6-7	MGLT-U6-7	.214437	.191201	.187	.530	.095/.104(U)	.582	.892	.961/.952(U)
	MGLT-R6-E	MGLT-B6-E		.062437	.191201	.187	.530	.095	.582	1.031	.984
	MGLT-R8-6	MGLT-B8-6		.080375	.261272	.253	.592	.120	.560	.984	1.043/1.046(B)
8 (1/4")	MGLT-R8-10	MGLT-B8-10		.350625	.261272	.253	.592	.120	.810	1.234	1.043/1.046(B)
	MGLT-R8-E	MGLT-B8-E		.080625	.261272	.253	.592	.120	.810	1.419	1.043/1.046(B)

100° F	100° Flush Head Dimensions										
Diameter	Steel (R)	Aluminum (B)	Stainless (U)	Grip Range	Hole Size	A Nom	В Мах	C Max	D Max	E Max	F Min
6 (3/16")	MGL100-R6-6	MGL100-B6-6	MGL100-U6-6	.125331	.191201	.187	.350	.080.	.490	.809 .804(U)	.987/.992(U)
6 (3/16)	MGL100-R6-9	MGL100-B6-9	MGL100-U6-9	.305500	.191201	.187	.350	.080.	.660	.968/.965(U)	.975/.978(U)
	MGL100-R8-8	MGL100-B8-8	MGL100-U8-8	.160475	.261272	.253	.410	.090	.665	1.089/1.085(U)	1.055/1.058(B)/ 1.059(U)
8 (1/4")	MGL100-R8-12	MGL100-B8-12	MGL100-U8-12	.415725	.261272	.253	.410	.090	.915	1.339/1.335(U)	1.055/1.058(B)/ 1.059(U)
	MGL100- R8-E16.4			.470 - 1.000	.261272	.253	.410	.090	1.185	1.798	1.154
12 (3/8")	MGL100-R12-12	MGL100-B12-12		.240750	.392408	.386	.632	.134	1.030	1.662	1.533
12 (3/8)	MGL100-R12-20	MGL100-B12-20		.740 - 1.250	.392408	.386	.632	.134	1.530	2.222	1.528
16 (1/2")	MGL100-R16-12	MGL100-B16-12		.375750	.531563	.514	.870	.197	1.360	2.206	1.503

Installed Values in Nominal Grip									
Material	Diameter	S	hear	Te	nsile	Pin Retention			
		Min	Typical	Min	Typical	Min	Typical		
	6 (3/16")	1300	1450	1000	1200	150	250		
Ctool	8 (1/4")	2500	2750	1850	2200	300	400		
Steel	10 (3/8")	6000	6300	4000	5000	600	1000		
	16 (1/2")	10000	11200	7000	9400	1000	1700		
	6 (3/16")	600	700	500	580	75	150		
Al	8 (1/4")	1300	1300	890	950	100	220		
Aluminum	12 (3/8")	2950	3000	1900	2100	250	450		
	16 (1/2")	5100	5400	4100	4300	400	800		
700 Ci Ct-i-l	6 (3/16")	1300	1400	950	1100	100	125		
300 Series Stainless	8 (1/4")	2350	2500	1800	2000	200	250		

The grip range view



For applications requiring a wide grip range, or multiple applications with similar requirements, the extended-grip Magna-Lok is capable of spanning the range of several conventional blind rivets. This versatility can eliminate as many as six standard rivets, reducing inventory, rework, and cost. Shown here, the MGLP-R8-E performs perfectly at .080 inch or .625 inch.

The installed view



Magna-Lok's internal 360° solid-circle lock ensures a flush pin break each and every time. This unique feature also assures a uniform blind-side footprint throughout the grip range. Combined with the hole filling feature, the Magna-Lok produces consistent mechanical values.



Huck Magna-Lok® Installation Tooling

Installation Tools												
	Pneudraulic Tools								Hydraulic Tools			
Tool Model	Size	255/256	2015	2022	2024	2025	AK175-I*	2480	2503	2580	2620-PT	
	3/16"	99-3327	Included	99-3303	99-3303	99-3303	120982	99-3303				
	3/16" & 1/4"	99-3321-68*		99-3487*	99-3487*	99-3487*						
Nose Assembly	1/4"	99-3228	Included**	99-3305	99-3305	99-3305	202142	99-3305				
	3/8"	99-3318								99-3318		
	1/2"	99-3330**							99-3330**		99-3331***	



^{**} Not for use with steel fasteners—aluminum only.



Model

Model 2480

^{***} Recommended for steel fasteners only.

^{*} Recommended for high volume production.

^{**} Not recommended for high volume production.

Ordering Information

Follow the form below to construct a part number for ordering Huck Magna-Lok blind fasteners. Refer to the Grip Data chart for grip numbers.

Ordering Information

MGL (HEAD STYLE) - (MATERIAL) (DIAMETER) - (GRIP NUMBER) Example: MGLP-R6-4 is a Protruding Head Magna-Lok, Steel, 3/16" Diameter.

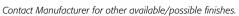
Head Style	Prefix
Protruding Head	Р
Truss Head	Т
100° Flush Head	100

Material	Code
Steel	R
Aluminum	В
Stainless Steel	U
430 Stainless Steel	4U

Diameter	Code
3/16"	6
1/4"	8
3/8"	12
1/2"	16

Materials and Finishes

Material	Sleeve Pin		Sleeve Finish*	Pin Finish*	Code
Steel	Low Carbon Steel	Medium Carbon Steel	Zinc Plated Clear Chromate	Zinc Plated Clear Chromate	R
Aluminum	5000 Series	7000 Series	Clear Chromate	Clear Chromate	В
Stainless Steel	300 Series	300 Series	Passivated	Dry Lubricated	U
400 Series Stainless Steel	430 Series	300 Series	Passivated	Dry Lubricated	430U
400 Series Stainless Steel	430 Series	410 Series	Passivated	Dry Lubricated	4U





Alcoa Fastening Systems











For more than 120 years, the name Alcoa has been recognized worldwide as a strong leader in product quality and customer support. These strengths are found in every product manufactured for Alcoa Fastening Systems, offering the greatest breadth and depth of fastening system solutions in the industry.

Alcoa Fastening Systems (AFS) maintains company offices in the United States and in many other countries. AFS fastener distributors are also located in many of the world's industrial centers, where they provide a ready source of AFS fasteners, installation tools, tool parts, and application assistance.

Americas

Industrial Fastener Division 8001 Imperial Drive Waco, TX 76712, USA P.O. Box 8117 Waco, TX 76714-8117, USA Tel: 800 388 4825 Fax: 800 798 4825

Installation Tool Division 1 Corporate Drive Kingston, NY 12401, USA Tel: 800 278 4825 Fax: 845 334 7333

AFS Industrial Distribution Group Headquarters 1925 North MacArthur Drive Tracy, CA 95376, USA Tel: 800 826 2884 Fax: 209 839 3022 AFS Industrial Distribution 14300 Clay Terrace Blvd. Suite 250 Carmel, IN 46032, USA Tel: 800 826 2884

Fax: 800 573 2645 Latin America Sales Avenida Parque Lira 79-402 Tacubaya

Mexico C P 11850

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