



Lockbolts, Structural Blind Fasteners and Tooling

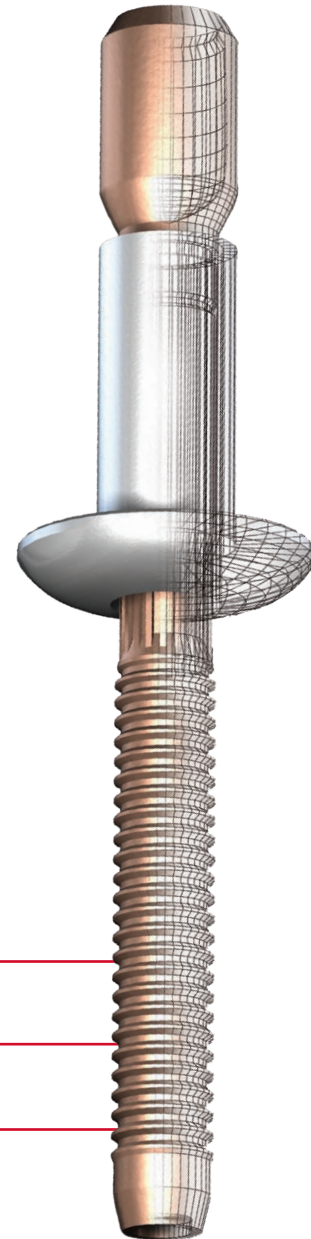


Magna-Lok®

The Hole-Filling Fastener with Mechanical Circle Lock and Wide Grip Range

The 360° solid-circle lock. It's Howmet Fastening System's answer to loosening and vibration challenges. It's the reason Magna-Lok® is the world's strongest, most reliable, most consistent blind fastening solution available. The unique locking design creates an internal lock during installation that virtually eliminates pin pushout by mechanically locking the pin to the sleeve. So Magna-Lok fasteners reliably lock flush into place. Permanently.

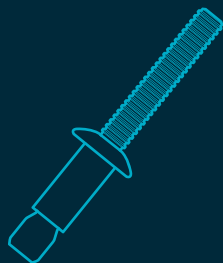
In lab shear fatigue tests, steel Magna-Lok fasteners substantially outlasted competitors' products. We have engineered industry-leading strength and durability into Magna-Lok with a mechanical circle-lock design that gives this structural blind rivet a tough, long-lasting joint with a tight, weather-resistant seal. This shield blocks out water and salt, ensuring a long, reliable life.



Available Sizes 3/16", 1/4", 3/8", 1/2"

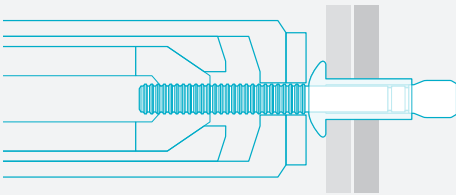
Materials Steel, Aluminum, Stainless Steel

Headstyles Protruding, Truss, 100° Flush



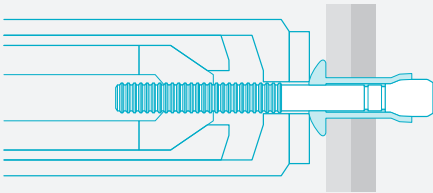
- ✓ Unmatched installation speed
- ✓ Low overall installed cost
- ✓ Vibration resistance
- ✓ Weather-resistant seal
- ✓ Quiet non-torque tools
- ✓ No repetitive stress injuries
- ✓ Eliminates need for secondary operations
- ✓ No special training or skills required for operators

Secure, Fast Installation



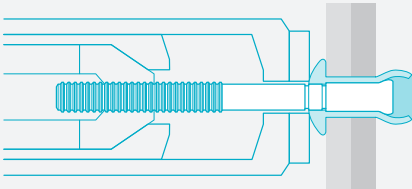
Insert the fastener into the hole and slip the installation tool over the pintail.

1



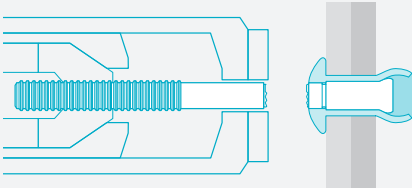
Press the trigger to initiate pulling action. As the tool pulls on the pintail, the pin (mandrel) expands the sleeve and begins drawing the work pieces together.

2



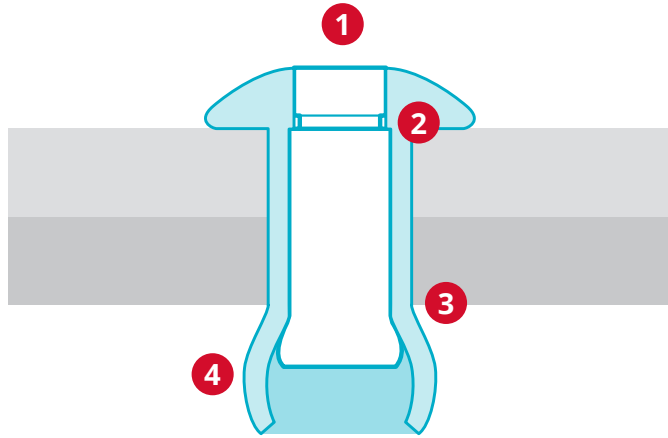
Continued pulling on the pintail draws the hollow pin head inside sleeve. The pin expands inside the sleeve and the work pieces, to completely fill the hole of the work pieces.

3



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.

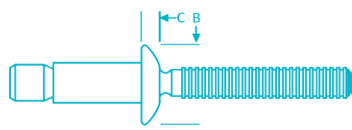
4



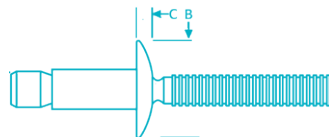
- 1** Flush pin break eliminates grinding and filling, leaving an even surface.
- 2** Unique, solid-circle lock ensures maximum strength and vibration resistance. The potential for pin push-out is virtually eliminated.
- 3** Excellent gap pull-out and high retained clamp.
- 4** Sleeve expands during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



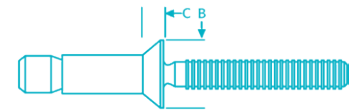
Magna-Lok[®] Data and Dimensions



Protruding Head



Truss Head



100° Flush Head

Steel Rivet/Steel Mandrel

DIAMETER	PART NO.	GRIP RANGE	HOLE SIZE	[B] HEAD DIA MAX	[C] HEAD HEIGHT MAX	MIN. SHEAR (LBF)	MIN. TENSILE (LBF)
Protruding Head							
3/16"	MGLP-R6-4	.062-.270	.191-.201	.385	.085	1300	1000
	MGLP-R6-7	.214-.437	.191-.201	.385	.085	1300	1000
	MGLP-R6-10	.455-.665	.191-.201	.385	.085	1300	1000
	MGLP-R6-E	.062-.437	.191-.201	.385	.085	1300	1000
1/4"	MGLP-R8-6	.080-.375	.261-.272	.530	.120	2500	1850
	MGLP-R8-7	.214-.437	.261-.272	.530	.120	2500	1850
	MGLP-R8-10	.350-.625	.261-.272	.530	.120	2500	1850
	MGLP-R8-14	.580-.875	.261-.272	.530	.120	2500	1850
	MGLP-R8-22	1.080-1.375	.261-.272	.530	.120	2500	1850
	MGLP-R8-E	.080-.625	.261-.272	.530	.120	2500	1850
	MGLP-R8-E12.6*	.245-.790	.261-.272	.530	.120	2500	1850
3/8"	MGLP-R12-12	.120-.625	.392-.408	.793	.175	6000	4000
1/2"	MGLP-R16-12	.160-.750	.531-.563	1.060	.240	10000	7000
Truss Head							
3/16"	MGLT-R6-4	.062-.270	.191-.201	.530	.095	1300	1000
	MGLT-R6-E	.062-.437	.191-.201	.530	.095	1300	1000
1/4"	MGLT-R8-6	.080-.375	.261-.272	.592	.120	2500	1850
100° Flush Head							
3/16"	MGL100-R6-6	.125-.331	.191-.201	.350	.080	1300	1000
	MGL100-R6-9	.305-.500	.191-.201	.350	.080	1300	1000
1/4"	MGL100-R8-8	.160-.475	.261-.272	.410	.090	2500	1850
	MGL100-R8-12	.415-.725	.261-.272	.410	.090	2500	1850

* Also available in 400 Stainless Steel

Aluminum Rivet/Aluminum Mandrel

Protruding Head							
3/16"	MGLP-B6-4	.062-.270	.191-.201	.385	.085	600	500
	MGLP-B6-7	.214-.437	.191-.201	.385	.085	600	500
	MGLP-B6-E	.062-.437	.191-.201	.385	.085	600	500
1/4"	MGLP-B8-6	.080-.375	.261-.272	.530	.120	1300	890
	MGLP-B8-10	.350-.625	.261-.272	.530	.120	1300	890
	MGLP-B8-E	.080-.625	.261-.272	.530	.120	1300	890
3/8"	MGLP-B12-12	.120-.625	.392-.408	.793	.175	3000	2100
1/2"	MGLP-B16-12	.160-.750	.531-.563	1.060	.240	5400	4100
Truss Head							
3/16"	MGLT-B6-4	.062-.270	.191-.201	.530	.095	600	500
	MGLT-B6-7	.214-.437	.191-.201	.530	.095	600	500
	MGLT-B6-E	.062-.437	.191-.201	.530	.095	600	500
100° Flush Head							
3/16"	MGL100-B6-6	.125-.331	.191-.201	.350	.080	600	500
	MGL100-B6-9	.305-.500	.191-.201	.350	.080	600	500
	MGL100-B6-12	.080-.375	.191-.201	.350	.080	600	500
	MGL100-B6-14	.080-.375	.191-.201	.350	.080	600	500
1/4"	MGL100-B8-8	.160-.475	.261-.272	.410	.090	1300	890
	MGL100-B8-12	.415-.725	.261-.272	.410	.090	1300	890

NOTE: Part numbers listed reflect typical stock. Additional Head Styles, material, diameter and grips may be available. All parts may be subject to minimum order.

Magna-Lok® Data and Tooling

Stainless Sleeve/Stainless Mandrel

DIAMETER	PART NO.	GRIP RANGE	HOLE SIZE	[B] HEAD DIA (MAX)	[C] HEAD HEIGHT (MAX)	MIN. SHEAR (LBF)	MIN. TENSILE (LBF)
Protruding Head							
3/16"	MGLP-U6-4	.062-.270	.191-.201	.392	.101	1300	950
	MGLP-U6-7	.214-.437	.191-.201	.392	.101	1300	950
	MGLP-U6-E	.062-.437	.191-.201	.392	.101	1300	950
1/4"	MGLP-U8-6	.080-.375	.261-.272	.530	.120	2350	1800
	MGLP-U8-7	.080-.437	.261-.272	.530	.120	2350	1800
	MGLP-U8-10	.350-.625	.261-.272	.530	.120	2350	1800
	MGLP-U8-E	.080-.625	.261-.272	.530	.120	2350	1800
100° Flush Head							
3/16"	MGL100-U6-6	.125-.331	.392-.408	.350	.080	1300	950
	MGL100-U6-9	.305-.500	.392-.408	.350	.080	1300	950
1/4"	MGL100-U8-8	.160-.475	.531-.563	.410	.090	2350	1800
	MGL100-U8-12	.415-.725	.531-.563	.410	.090	2350	1800

NOTE: Part numbers listed reflect typical stock. Additional Head Styles, material, diameter and grips may be available. All parts may be subject to minimum order.

Installation Tooling

DIAMETER	TOOL	NOSE ASSEMBLY	TYPE
3/16"	2024*	99-3303	Pneudraulic
	2480	99-3303	Hydraulic
	BV4500-118	99-3303	Battery
1/4"	2024*	99-3305	Pneudraulic
	2480	99-3305	Hydraulic
	BV4500-118	99-3305	Battery
3/8"	256	99-3318	Pneudraulic
	2581	99-3318	Hydraulic
1/2"	2583**	99-3330	Hydraulic
	2620 PT ***	99-3331	Hydraulic

*Preferred Tool. **Aluminum only. ***Steel only.

