

Huck® BOM®

The highest strength
blind fasteners in
the world

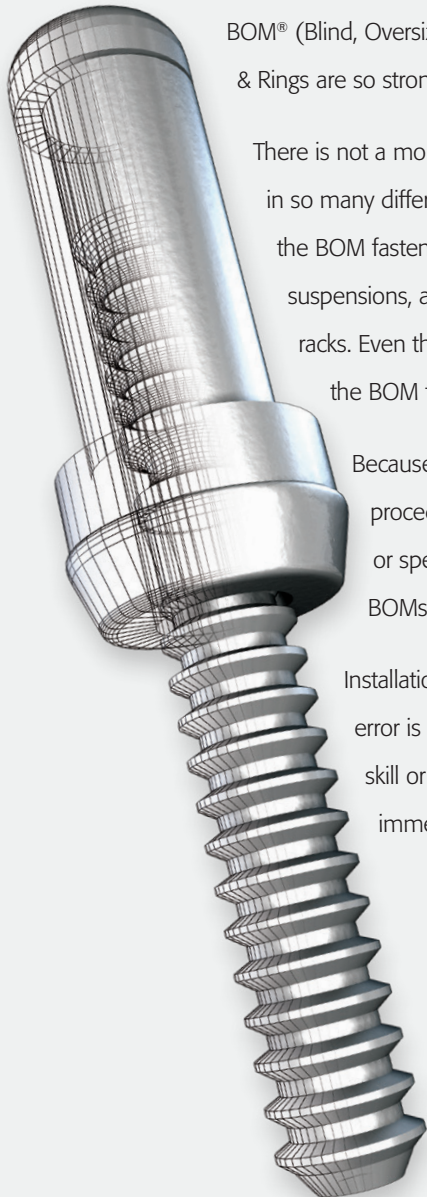
Vibration resistant
Easy to install
Mechanically locked

3/16"-3/4"



The Huck BOM®

The highest strength blind oversize fasteners in the world.



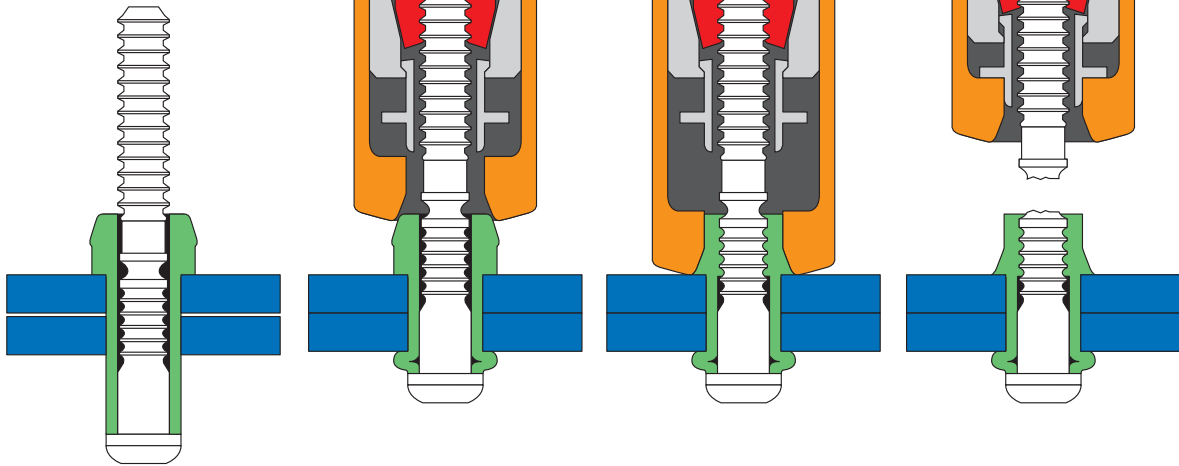
BOM® (Blind, Oversize Mechanically locked) fasteners from Alcoa Fastening Systems & Rings are so strong, one can do the work of up to four conventional fasteners.

There is not a more vibration resistant blind fastener than the BOM, or one that works harder in so many different applications. Featuring a unique push-and-pull installation design, the BOM fastening system is tough enough for military vehicles and equipment, auto suspensions, amusement park rides, rail car assembly, and shaft steel storage and retrieval racks. Even the most demanding high-tensile application is no match for the strength of the BOM fastening system.

Because installing BOM fasteners is so easy, a worker can learn the installation procedure in just 10 minutes, eliminating the need to hire certified welders or specially trained employees. And because they install from just one side, BOMs can be used in all blind side applications.

Installations are more accurate than other fasteners, because the element of human error is not an issue. In other words, correct installation doesn't depend on operator skill or specialized tools. In addition, you can often start using BOM fasteners immediately with your current tools, saving you more money in the long run.

Installation Sequence



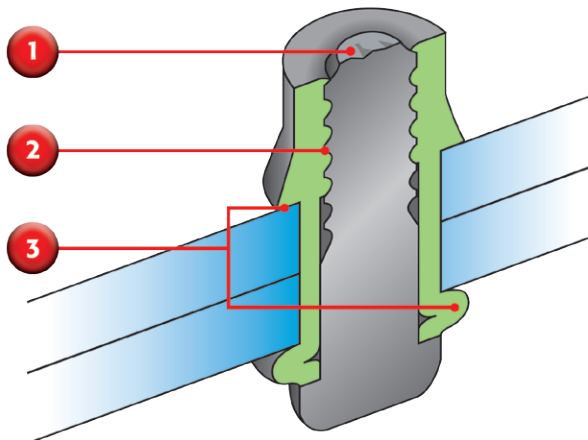
Insert the fastener into the hole and slip the installation tool over the pintail.

Press the trigger to initiate pulling action. As the tool pulls on the pintail, the unique collar design "stands off" the swaging action until the maximum allowable bulb is formed on the backside.

Continued pulling on the pintail draws the work pieces together and the swaging anvil overcomes the standoff and moves down the length of the collar, securely locking the collar to the pin.

Once the collar is swaged, the pin breaks leaving a high strength, vibration resistant secured joint.

Secure, fast installation



When the pin separates near flush, the BOM fastener is installed correctly. The BOM fastener does not require surface preparation, grinding or filling after installation.

The collar is locked to the pin through the "swaging" process, creating a high vibration resistant connection and the highest strength of any blind fastener.

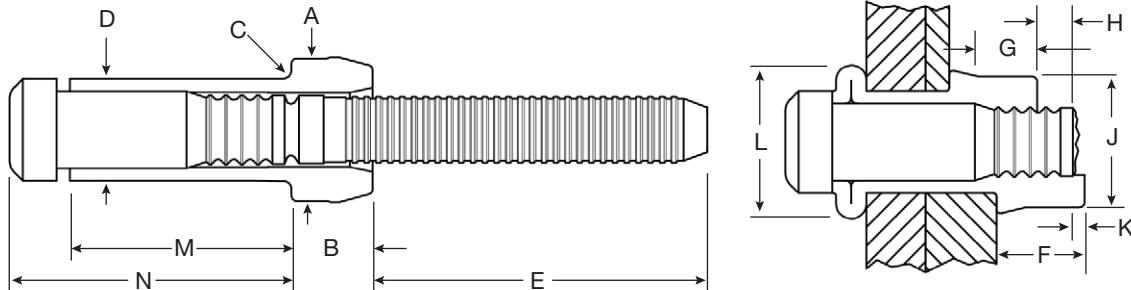
Large bearing area on both sides of the work piece ensures a permanently-held, tamper-resistant joint.

BOM® benefits

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

Data and dimensions

Small Diameter Bullet Head Blind Rivet



Dimensional Data

Dia.	Grip No.	Hole Size	A	B	C Max	D	E Min
3/16"	(6)	.208-.222	0.276 - 0.286	0.152 - 0.168	0.015	0.196 - 0.206	0.785
1/4"	(8)	.277 - .292	0.368 - 0.380	0.205 - 0.225	0.020	0.262 - 0.275	0.860
5/16"	(10)	.348 - .368	0.468 - 0.478	0.266 - 0.278	0.025	0.332 - 0.346	1.285
3/8"	(12)	.413-.435	0.553 - 0.563	0.315 - 0.327	0.030	0.393 - 0.411	1.230
1/2"	(16)	.546 - .581	0.740 - 0.755	0.415 - 0.438	0.035	0.529 - 0.544	1.530
5/8"	(20)	.687 - .728	0.925 - 0.941	0.507 - 0.545	0.040	0.662 - 0.685	1.710
3/4"	(24)	.828 - .873	1.110 - 1.130	0.637 - 0.654	0.050	0.795 - 0.816	2.150

Inspection Data

Dia.	F Nom	G Min	H Max	J Max	K Max	L Nom
3/16"	0.177	0.109	0.094	0.261	0.031	0.306
1/4"	0.232	0.156	0.094	0.346	0.031	0.405
5/16"	0.300	0.187	0.171	0.434	0.046	0.517
3/8"	0.360	0.203	0.171	0.510	0.046	0.605
1/2"	0.475	0.297	0.171	0.686	0.063	0.841
5/8"	0.595	0.406	0.313	0.874	0.078	1.038
3/4"	0.722	0.438	0.313	1.027	0.078	1.267



Grip Data

	Grip No.	Grip Range	M Nom	N Max		Grip No.	Grip Range	M Nom	N Max
6 (3/16")	2	.093 -.156	.376	.500	12 (3/8")	4	.188 -.312	.766	.975
	3	.157 -.219	.439	.562		6	.313 -.437	.891	1.100
	4	.220 -.281	.501	.625		8	.438 -.562	1.016	1.225
	5	.282 -.344	.564	.687		10	.563 -.687	1.141	1.350
	6	.345 -.406	.626	.750		12	.688 -.812	1.266	1.475
	7	.407 -.469	.689	.812		14	.813 -.937	1.391	1.600
	8	.470 -.531	.751	.875		16	.938 -1.062	1.516	1.725
	9	.532 -.594	.814	.937		18	1.063 -1.187	1.641	1.850
	10	.595 -.656	.876	1.000		20	1.188 -1.312	1.766	1.975
	11	.657 -.719	.939	1.062	16 (1/2")	4	.251 -.375	1.000	1.266
	12	.720 -.781	1.001	1.125		6	.376 -.500	1.125	1.391
8 (1/4")	2	.093 -.156	.460	.625		8	.501 -.625	1.250	1.516
	3	.157 -.219	.523	.688		10	.626 -.750	1.375	1.641
	4	.220 -.281	.585	.750		12	.751 -.875	1.500	1.766
	5	.282 -.344	.648	.813		14	.876 -1.000	1.625	1.891
	6	.345 -.406	.710	.875		16	1.001 -1.125	1.750	2.016
	7	.407 -.469	.773	.938		18	1.126 -1.250	1.875	2.141
	8	.470 -.531	.835	1.000		20	1.251 -1.375	2.000	2.266
	9	.532 -.594	.898	1.063		22	1.376 -1.500	2.125	2.391
	10	.595 -.656	.960	1.125		24	1.501 -1.625	2.250	2.516
	11	.657 -.719	1.023	1.188	20 (5/8")	4	.251 -.500	1.213	1.531
	12	.720 -.781	1.085	1.250		8	.501 -.750	1.463	1.781
	13	.782 -.843	1.147	1.313		12	.751 -1.000	1.713	2.031
	14	.844 -.905	1.209	1.375		16	1.001 -1.250	1.963	2.281
						20	1.251 -1.500	2.213	2.531
10 (5/16")	4	.188 -.312	.695	.875	24 (3/4")	4	.251 -.500	1.380	1.750
	5	.250 -.375	.758	.938		8	.501 -.750	1.630	2.000
	6	.313 -.437	.820	1.000		12	.751 -1.000	1.880	2.250
	8	.438 -.562	.945	1.125		16	1.001 -1.250	2.130	2.500
	10	.563 -.687	1.070	1.250					
	12	.688 -.812	1.195	1.375					
	14	.813 -.937	1.320	1.500					
	16	.938 -1.062	1.445	1.625					

Installed Values in Nominal Grip (lbs.)

Diameter	Shear	Tensile	<p><i>Note: These are minimum ultimate shear and tensile strengths, in pounds, of installed fastener, when tested in a grip equal to or greater than one and one half the fastener diameter.</i></p>
3/16"	2800	1800	
1/4"	5100	3250	
5/16"	8050	5200	
3/8"	11100	7250	
1/2"	20150	13000	
5/8"	28500	20500	
3/4"	45100	29100	

BOM® Installation Tooling

Installation Tools

Pneudraulic Tools				Hydraulic Tools					
Tool Model	Size*	254	256	2480	2581	2600	2624	2624 PTD	3585
Nose Assembly	3/16"	99-1053	99-1053	99-994	99-1053				
	1/4"	99-830-1	99-830-1		99-830-1				
	5/16"		99-769		99-769**	99-3119			
	3/8"		99-1272*		99-1272	99-3122			
	1/2"						99-5107	99-5106	99-5107
	5/8"						99-5102		99-5102
	3/4"								99-5103

* Use only in very low volume repair applications.

** Requires 123634-2580 steel deflector



Tooling weight and dimensions

Model	Type	Weight	Length	Height	Width
254	Pneudraulic	8.67	8.0	14.9	5.2
256	Pneudraulic	11.1	7.9	14.9	6.3
2480	Hydraulic	2.2	8.2	6.6	1.9
2581	Hydraulic	6.6	8.5	7.3	2.2
2600	Hydraulic	7.3	9.5	7.9	2.7
2624	Hydraulic	17.4	7.4	7.7	3.5
2624 PTD	Hydraulic	17.4	13.02	7.7	3.5
3585	Hydraulic	19	7.9	11.3	2

Ordering Information

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

Ordering Information

BOM-R (DIAMETER) - (GRIP NUMBER)

Example: BOM-R8-6 is a BOM blind rivet, Steel, 1/4" Diameter, Grip 6.

Material	Code
Steel	R

Diameter	Code
3/16"	6
1/4"	8
5/16"	10
3/8"	12
1/2"	16
5/8"	20
3/4"	24

Materials and Finishes

Material	Sleeve	Pin	Sleeve Finish	Pin Finish
Steel	Low Carbon Steel	Medium Carbon Steel	Zinc Plated Clear Chromate	None (Std)



Alcoa Fastening Systems & Rings



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 & Rings, offering the greatest breadth and depth of fastening system solutions in the industry.

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

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