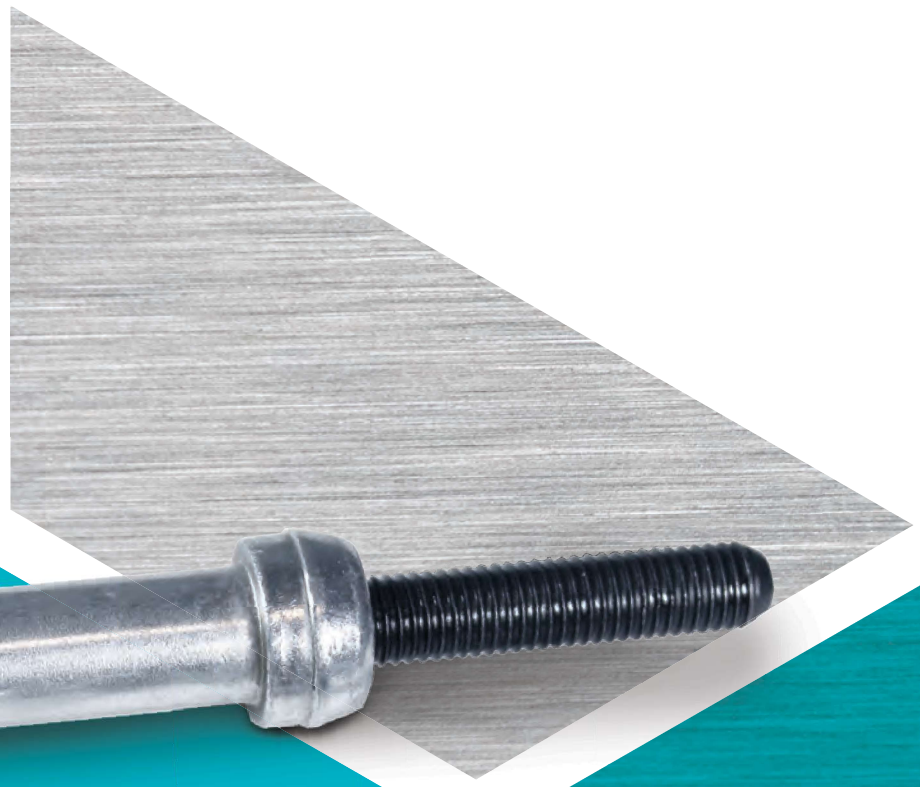
ARCONIC

Huck BOM®
The Highest Strength Blind Fasteners in the World

Vibration Resistant
Easy to Install
Mechanically Locked

3/16″ – 3/4″



HUCK®

ARCONIC

The Huck BOM®

The Highest Strength Blind Oversize Fasteners in the World

BOM® (Blind, Oversize Mechanically locked) fasteners from Arconic Fastening Systems 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.

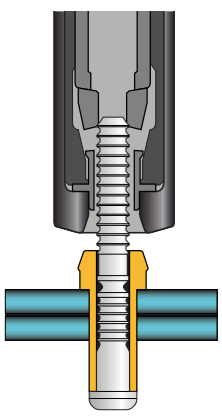
Installations are more accurate than other fasteners, because the element of human error is not an issue. In other words, correct installation doesn't depend on operator skill or specialized tools. In addition, you can often start using BOM fasteners immediately with your current tools, saving you more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

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

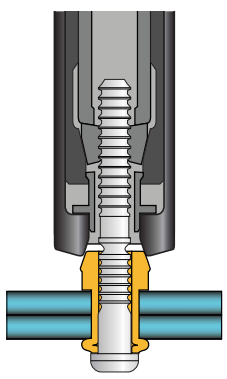
Installation Sequence

1



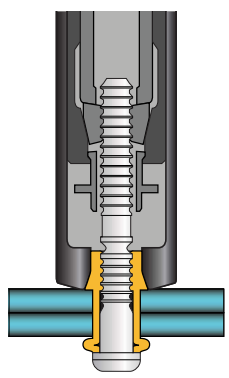
Insert the fastener into the hole and slip the installation tool over the pintail.

2



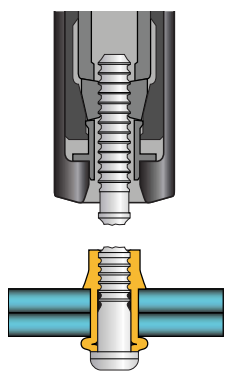
Press the trigger to initiate pulling action. As the tool pulls on the pintail, the unique collar design ”stands off” the swaging action until the maximum allowable bulb is formed on the backside.

3



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.

4



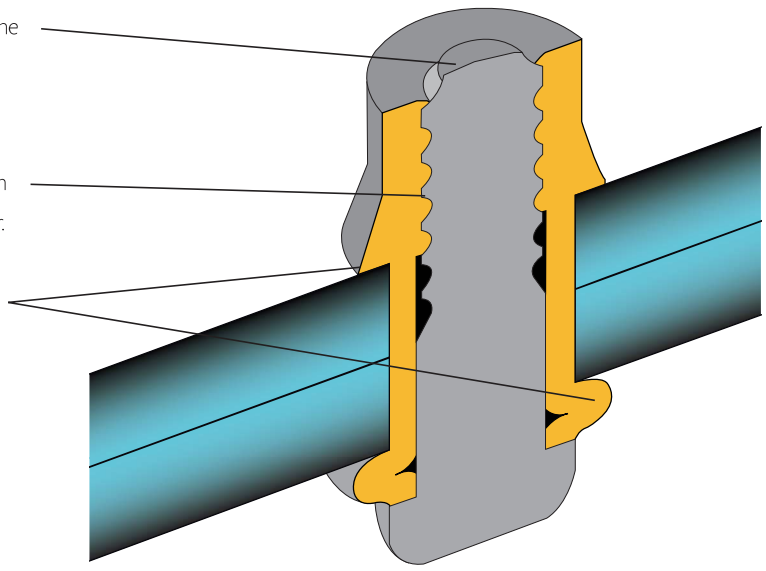
Once the collar is swaged, the tool ejects the fastener and releases the puller to complete the sequence.

Secure, Fast Installation

1. 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.

2. 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.

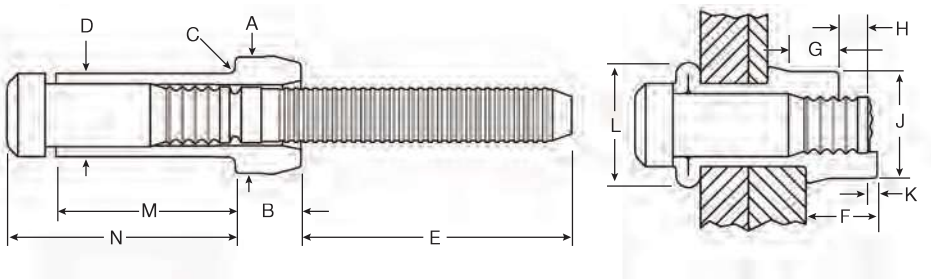
3. Large bearing area on both sides of the work piece ensures a permanently held, tamper resistant joint.



ARCONIC

Data and Dimensions

Small Diameter Bullet Head Blind Rivet



Dimensional Data

Dia.	Dia	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

Installed Values in Nominal Grip (lbs.)

Diameter	Shear	Tensile
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

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.

Grip Data

	Grip No.	Grip Range	M Nom	N Max
6 (3/16″)	2	.093-.156	.376	.500
	3	.157-.219	.439	.562
	4	.220-.281	.501	.625
	5	.282-.344	.564	.687
	6	.345-.406	.626	.750
	7	.407-.469	.689	.812
	8	.470-.531	.751	.875
	9	.532-.594	.814	.937
	10	.595-.656	.876	1.000
	11	.657-.719	.939	1.062
	12	.720-.781	1.001	1.125
8 (1/4″)	2	.093-.156	.460	.625
	3	.157-.219	.523	.688
	4	.220-.281	.585	.750
	5	.282-.344	.648	.813
	6	.345-.406	.710	.875
	7	.407-.469	.773	.938
	8	.470-.531	.835	1.000
	9	.532-.594	.898	1.063
	10	.595-.656	.960	1.125
	11	.657-.719	1.023	1.188
	12	.720-.781	1.085	1.250
	13	.782-.843	1.147	1.313
	14	.844-.905	1.209	1.375
10 (5/16″)	4	.188-.312	.695	.875
	5	.250-.375	.758	.938
	6	.313-.437	.820	1.000
	8	.438-.562	.945	1.125
	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

	Grip No.	Grip Range	M Nom	N Max
12 (3/8″)	4	.188-.312	.766	.975
	6	.313-.437	.891	1.100
	8	.438-.562	1.016	1.225
	10	.563-.687	1.141	1.350
	12	.688-.812	1.266	1.475
	14	.813-.937	1.391	1.600
	16	.938-1.062	1.516	1.725
	18	1.063-1.187	1.641	1.850
	20	1.188-1.312	1.766	1.975
16 (1/2″)	4	.251-.375	1.000	1.266
	6	.376-.500	1.125	1.391
	8	.501-.625	1.250	1.516
	10	.626-.750	1.375	1.641
	12	.751-.875	1.500	1.766
	14	.876-1.000	1.625	1.891
	16	1.001-1.125	1.750	2.016
	18	1.126-1.250	1.875	2.141
	20	1.251-1.375	2.000	2.266
	22	1.376-1.500	2.125	2.391
	24	1.501-1.625	2.250	2.516
20 (5/8″)	4	.251-.500	1.213	1.531
	8	.501-.750	1.463	1.781
	12	.751-1.000	1.713	2.031
	16	1.001-1.250	1.963	2.281
	20	1.251-1.500	2.213	2.531
24 (3/4″)	4	.251-.500	1.380	1.750
	8	.501-.750	1.630	2.000
	12	.751-1.000	1.880	2.250
	16	1.001-1.250	2.130	2.500
	20	1.251-1.500	2.380	2.750
	24	1.501-1.750	2.630	3.000
	28	1.751-2.000	2.880	3.250
	32	2.001-2.250	3.130	3.500
	36	2.251-2.500	3.380	3.750
	40	2.501-2.750	3.630	4.000
	44	2.751-3.000	3.880	4.250

ARCONIC

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*			99-3122			
	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

Model 256

Model 3585

Model 2581

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	black oil

* Optional coatings available