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Magna-Grip®
The Original Wide Grip Range
Fastener Proven in Thousands
of Applications

Vibration Resistant Flush-Breaking Easy Installation

3/16" - 3/8"





Huck® Magna-Grip®

Magna-Grip® Fasteners. A Unique, Lock-Groove Design Ensures a Secure Installation

Huck® brand Magna-Grip fasteners offer a generous selection of diameters — from 3/16 to 3/8 inch — for light to heavy-duty applications. They break flush, every time, and provide multi-thickness capability thanks to a wide grip range for each diameter. With Magna-Grip fasteners you achieve clean installations across-the-board, for a variety of assembly thicknesses, while stocking less inventory.

In addition to consistent clamp force, shear, and tensile strength, the Huck Magna-Grip ensures absolute vibration resistance with a unique locking-groove design. It simply can't come loose no matter how demanding the application — which reduces rework and warranty claims, providing long-term savings for your company and increased satisfaction for your customers.

With Magna-Grip fasteners, quality installations do not depend upon the skill of the worker or a correctly calibrated tool. They install in seconds (up to 1,200 per hour) and require no more than a glance to confirm a correct installation: If the core pin is flush with the collar, the Magna-Grip fastener has been properly installed. It's that simple. And the installation process can be mastered in minutes with minimal training.



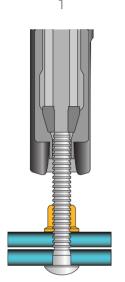
Magna-Grip Benefits

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

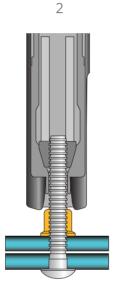


Installation Sequence

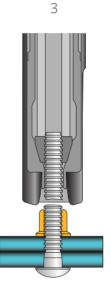
Perfect installations do not depend upon worker skill or a precisely calibrated impact wrench — and can be achieved with just a few minutes training.



The fastener pin is inserted through a prepared hole.
The precision collar is placed over the other end.



The Huck installation tool is applied and engages the pin.
When the tool is activated, it pulls the pin in a straight line while pushing down on the collar.

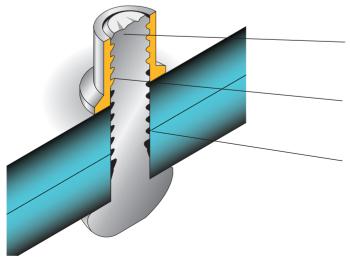


The tool moves forward over the collar, molding the collar material into the grooves of the pin. This process, called "swaging" causes a precise stretching of the pin and collar, developing the fastener's clamping force.



When swaging is complete the pintail is automatically tensioned off, flush with the end of the collar. The tool then pushes off from the collar. The result is a permanent, mechanically locked fastener.

Secure, Fast Installation

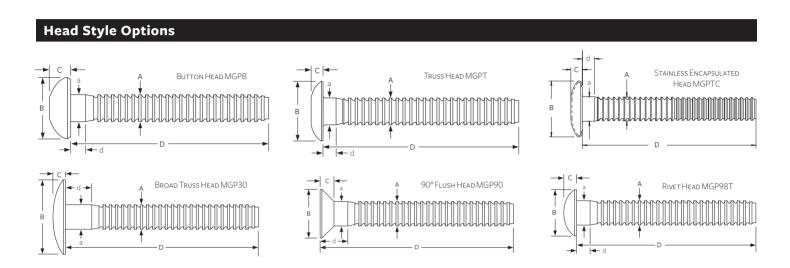


- Flush-breaking, lock-groove design provides a wide grip range to reduce inventory requirements. Easy, consistently accurate installations minimize operator errors and rework costs.
- Collar material swaged into the annular pin grooves forms a permanent, vibration-proof connection that promotes increased customer satisfaction and reduced warranty claims.
- Hole preparation isn't critical. Built-in system values yield high, consistent clamp loads, and gap removal.

For Oversized Holes: To optimize clamp, hardened washers such as ASTM F436, DIN 6916 or EN 14399-6 are recommended for use with oversize holes and slots, along with good bolting practice.



Data and Dimensions



Button He	ad Dimens	sions							
DIAMETER	GRIP NUMBER	GRIP RANGE	HOLE SIZE MAX	A MAX	В	С	D	a MAX	d REF
6 (2/16/1)	10	.062625	0.219	0.186	.360390	.111127	1.771-1.831	.192	.087
6 (3/16")	20	.312-1.250	0.219	0.186	.360390	.111127	2.353-2.481	.259	.312
0 (1/4/)	10	.125625	0.281	0.250	.480520	.135155	1.965-2.040	.259	.125
8 (1/4")	20	.312-1.250	0.281	0.250	.480520	.135155	2.560-2.635	.259	.312
10 (5/10/)	12	.125750	0.359	0.312	.600650	.180205	2.340-2.390	.322	.100
10 (5/16″)	22	.625-1.375	0.259	0.312	.600650	.180205	2.840-2.890	.322	.550
12 (2/0/)	14	.188875	0.422	0.375	.720780	.220250	2.875-2.925	.385	.188
12 (3/8″)	26	.812-1.625	0.422	0.375	.720780	.220250	3.500-3.550	.385	.810

Truss Hea	Truss Head Dimensions									
DIAMETER	GRIP NUMBER	GRIP RANGE	HOLE SIZE MAX	A MAX	В	С	D	a MAX	d REF	
0 (1/4/)	10	.125625	.281	.250	.530595	.115135	1.965-2.040	.259	.125	
8 (1/4")	20	.312-1.250	.281	.250	.530595	.115135	2.560-2.635	.259	.312	
10 (5/10/0	12	.125750	.359	.312	.700795	.125175	2.340-2.390	.322	.100	
10 (5/16″)	22	.625-1.375	.359	.312	.700795	.125175	2.840-2.890	.322	.550	
12 (2/0/)	14	.188875	.422	.375	.830920	.150215	2.875-2.925	.385	.188	
12 (3/8″)	26	.812-1.625	.422	.375	.830920	.150215	3.500-3.550	.385	.810	

Broad Truss Head Dimensions										
DIAMETER	GRIP NUMBER	GRIP RANGE	HOLE SIZE MAX	A MAX	В	С	D	a MAX	d REF	
0 (1/4/)	10	.125625	.281	.250	.900970	.135165	1.965-2.040	.259	.125	
8 (1/4")	24	.562-1.500	.281	.250	.900970	.135165	2.810-2.885	.259	.562	
12 (2/0/)	14	.188875	.422	.375	1.175-1.255	.185215	2.875-2.925	.385	.188	
12 (3/8″)	24	.688-1.500	.422	.375	1.175-1.255	.185215	3.375-3.425	.385	.680	

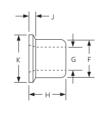


90° Flus	90° Flush Head Dimensions									
DIAMETER	GRIP NUMBER	GRIP RANGE	HOLE SIZE MAX	A MAX	В	С	D	a MAX	d REF	
C (2/1C/A	10	.062625	.219	.186	.325360	.075090	1.771-1.831	.192	-	
6 (3/16")	20	.312-1.250	.219	.186	.325360	.075090	2.353-2.413	.192	.312	
0 (1/4/)	10	.125625	.281	.250	.435475	.115130	1.965-2.040	.259	-	
8 (1/4")	20	.312-1.250	.281	.250	.435475	.115130	2.560-2.635	.259	.312	
12 (2/0/)	14	.250875	.422	.375	.650715	.175195	2.875-2.925	.385	-	
12 (3/8″)	26	.812-1.625	.422	.375	.650715	.175195	3.500-3.550	.385	.810	

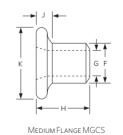
Stainles	Stainless Encapsulated Head Dimensions									
DIAMETER	GRIP NUMBER	GRIP RANGE	HOLE SIZE MAX	A MAX	В	С	D	a MAX	d REF	
	10	.125625	.281	.250	.620	.165	1.965-2.040	.259	.125	
8 (1/4")	20	.312-1.250	.281	.250	.620	.165	2.560-2.635	.259	.312	
	32	1.062-2.000	.281	.250	.620	.165	3.310-3.385	.259	1.062	
10 (5/16")	12	.125750	.359	.311	.810	.175	2.340-2.390	.322	.100	
	14	.188875	.422	.375	.860	.210	2.875-2.925	.385	.188	
12 (3/8″)	26	.812-1.625	.422	.375	.860	.210	3.500-3.550	.385	.810	
	32	1.188-2.000	.422	.375	.860	.210	3.8753.925	.385	1.185	

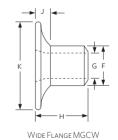
Rivet He	Rivet Head Dimensions									
DIAMETER	GRIP NUMBER	GRIP RANGE	HOLE SIZE MAX	A MAX	В	С	D	a MAX	d REF	
(2/1/1/0	10	.062625	.219	.186	.467488	.098110	1.771-1.831	.192	.087	
6 (3/16")	20	.312-1.250	.219	.186	.467488	.098110	2.353-2.413	.192	.312	

Collar Dimensions								
COLLAR	DIAMETER	F	G	Н	К			
	3/16"	.305315	.188204	.267283	.360390			
MCC	1/4″	.395405	.250260	.365385	.485515			
MGC	5/16"	.500510	.310320	.430450	.605645			
	3/8″	.602612	.375385	.495515	.735765			
MCCIM	3/16"	.305315	.188204	.295335	.640755			
MGCW	1/4″	.395405	.250260	.435460	.855-1.005			



STANDARD FLANGE MGC

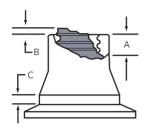




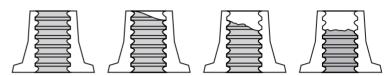
Installe	nstalled Values in Nominal Grip (lbs)											
DIAMETER		ALUMINUM		STEEL			DIAMETER		ALUMINUM		STEEL	
DIAIVIETER		Мінімим	TYPICAL	Мінімим	Typical		DIAMETER		Мінімим	TYPICAL	Мінімим	Typical
	Shear	750	1000	1725	2000			Shear	2200	2700	3000	3900
3/16"	Tensile	900	1300	1650	2700		5/16"	TENSILE	2500	4100	4400	6200
	Сьамр	550	800	1025	1500			CLAMP	1600	2200	2300	2900
	Shear	1200	1600	2200	2700			Shear	3000	3900	4200	6000
1/4″	Tensile	1620	2500	2950	4000		3/8″	TENSILE	4000	5500	6000	9000
	CLAMP	950	1400	1350	2000			CLAMP	2400	3200	3200	4000



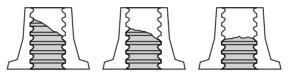
Data and Dimensions



Inspection D	ata		
DIAMETER	A MAX	BMAX	CMAX
6 (3/16")	.062	.031	.050
8 (1/4")	.125	.093	.100
10 (5/16″)	.187	.140	.100
12 (3/8″)	.250	.171	.100



Acceptable Features- Substantially flush with end of collar up to a maximum of two lock witness marks within collar.



Unacceptable Features- Three witness marks within collar.

Ordering Information

Follow the tables below to construct part numbers for ordering Magna-Grip pins and collars. Refer to the Grip Data chart for grip numbers.

Pins

MGP (HEAD STYLE) - (MATERIAL) (DIAMETER) - (GRIP NUMBER) (FINISH)

Example: MGPB-R8-10G is a Magna-Grip fastener, Button Head, Steel, 1/4" Diameter, Grip 10 with a Zinc Finish

HEAD STYLE	PREFIX
BUTTON HEAD	В
Truss Head	Т
Broad Truss Head	30
RIVET HEAD	98T
90° Flush Head	90

MATERIAL	CODE
Steel	R
ALUMINUM	Е

DIAMETER	CODE
3/16″	6
1/4″	8
5/16″	10
3/8″	12

GRIP NUMBER					
PLEASE REFER TO THE DIMENSIONAL DATA CHART.					

FINISH	CODE	
ZINC	G	
ZINC PLATING WITH ZINC PHOSPHATE	GP	

Collars

(FLANGE STYLE) - (MATERIAL) (DIAMETER) (FINISH) (OPTIONS)

Example: MGCW-R8U is a wide Flange Magna-Grip Collar, Steel, 1/4" Diameter, with a Zinc Finish

FLANGE STYLE	PREFIX
Standard	MGC
Medium	MGCS
Wide	MGCW

MATERIAL	CODE
Steel	R
ALUMINUM	F

DIAMETER	CODE
3/16″	6
1/4″	8
5/16″	10
3/8″	12

FINISH	CODE	
ZINC	C	

OPTIONS	CODE
Tab Lock	L



Installation Tooling

Installation Tools						
TYPE PNEUDRAULIC TOOLS BATTERY		Pneudraulic Tools		Hydraulic Tools ¹	Hydraulic Tools ¹	
TOOL MODEL	2025	256	BV4500-118	2480	2581	2600
SIZE	NOSE ASSEMBLY					
3/16″	99-3201	99-3206	99-3201	99-3201	99-3206	-
1/4″	99-3204	99-3207	99-3204	99-3204	99-3207	-
5/16″	-	99-1439	-	-	99-1439	99-3217
3/8″	-	99-1440	-	-	99-1440	99-3220

¹Requires a PowerRig to operate.

Powerigs that may be used: 918, 940, 968 and 913H (gas powered).











Tooling Weight and Dimensions						
MODEL	TYPE	WEIGHT	LENGTH	HEIGHT	WIDTH	
BV4500-118	BATTERY	5 LBS	14.25″	10.63″	3.75″	
2480	HYDRAULIC	2.2 lbs	8.6″	6.5″	1.9″	
2581	HYDRAULIC	5.5 lbs	8.4"	7.1″	2.1″	
2600	HYDRAULIC	7.3 lbs	9.4″	6.9″	2.65″	
256	PNEUDRAULIC	11.1 LBS	7.8″	14.9″	6.1″	
2025	PNEUDRAULIC	5.75 lbs	8.4"	12.5″	4.4″	

Huck POWERIG® Hydraulic Units					
MODEL 918	MODEL 940	MODEL 913H	MODEL 968 (NOT SHOWN) ²		
High-production applications	Portable; production and repair	Portable; production and repair	Portable; production and repair		
Operates up to 2 tools; 2 gpm flow rate	70 in³/min flow rate	139 in³/min flow rate	50 in³/min flow rate		
Electrically powered; 220, 440, or 550 volts, 3 phase	Electrically powered; 115 or 220 volts, single phase	GASOLINE POWERED	COMPRESSED AIR MINIMUM 50 CPM		
Weighs 708 lbs, operational	Weighs 75 lbs	Weighs 175 lbs	Weighs 93 lbs, operational		
44″L×25″W×30″H	12.5″L x 10.5″W x 18″H	24″L×21″W×27″H	10.5″L x 16.3″W x 15.7″H		

²Requires air-triggered tools



Hydraulic POWERIG® Model 913H



Hydraulic POWERIG® Model 918



Hydraulic POWERIG® Model 940



Arconic Fastening Systems

Arconic Inc. (NYSE: ARNC) creates breakthrough products that shape industries. Working in close partnership with our customers, we solve complex engineering challenges to transform the way we fly, drive, build and power. Through the ingenuity of our people and cutting-edge advanced manufacturing, we deliver these products at a quality and efficiency that ensures customer success and shareholder value.











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