



Magna-Tite[®]

The Fastener for
Thin or Compressible
Materials



Huck® Magna-Tite®

All-Aluminum Fastener Ideal for Thin or Low-Strength Materials

The Huck Magna-Tite® is a specialized aluminum structural rivet fastener well-suited for use within oversized holes and repair applications.

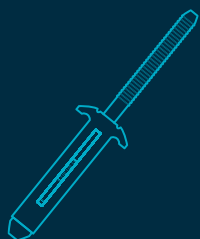
During installation, Magna-Tite clamps the joint with a broad blind-side bulb, making it ideal for installation in thin materials such as aluminum, fiberglass and plastic. Unlike other bulbing blind fasteners, the Magna-Tite has a unique embedded sealant applied between the pin and the sleeve. This sealant oozes into the joint during installation, completely filling any gap, and ensuring water resistance.



Available Sizes 3/16", 1/4"

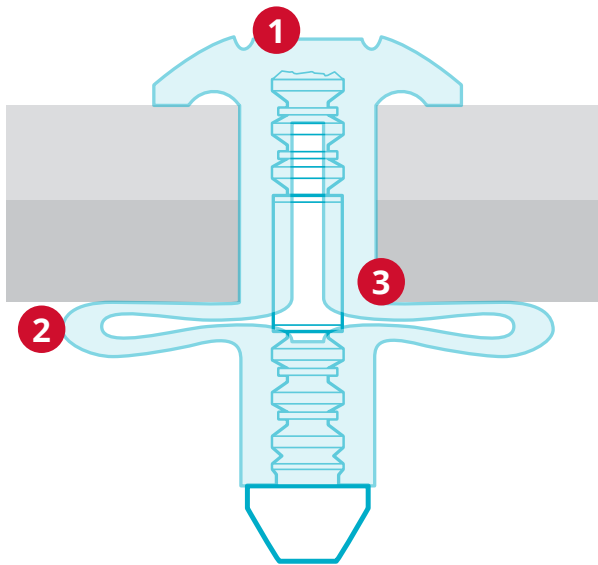
Materials Aluminum

Headstyles Protruding, Shaveable, Low Profile, 100° Oval Countersunk



- ✓ Broad blind-side bulbing action prevents pull-through
- ✓ Embedded sealant fills gaps to ensure water resistance
- ✓ Ideal for thin materials like aluminum, fiberglass and plastic
- ✓ Large footprint covers oversize holes
- ✓ Shaveable head styles allow repairs to look similar to OEM installations

Secure, Fast Installation



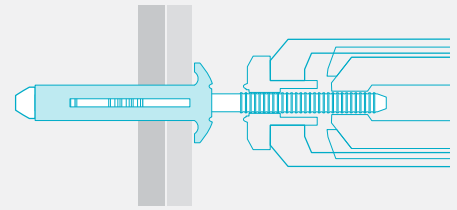
- 1 Shaveable head styles allow similar appearance to OEM rivet installations.
- 2 Large blind-side footprint for installation in thin or compressible materials where controlled strength is required.
- 3 Unique embedded sealant applied between the pin and sleeve.

Huck® Rivet Shaver 105-MT

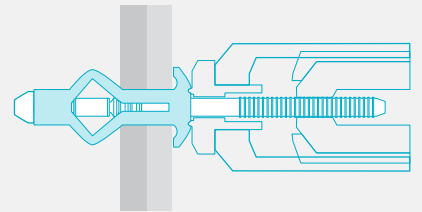
The Huck Rivet Shaver tool fits any standard size drill and burnishes 5/32", 3/16" and 1/4" shaveable rivet heads to leave a clean, solid appearance that closely matches solid or brazier head rivets



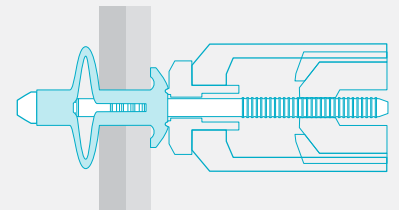
| PART NO. | DESCRIPTION |
|----------|--------------------------|
| 105-MT | Huck Rivet Shaver + Bit |
| 124351 | Huck Rivet Shaver Bit |
| 124486 | Huck Rivet Shaver Holder |



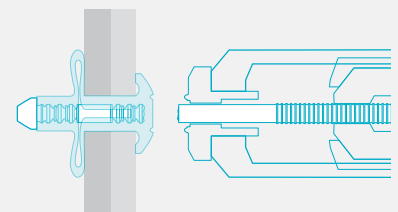
- 1 Insert the fastener into the hole and slip the installation tool over the pintail.



- 2 Press the trigger to initiate pulling action. As the tool pulls on the pintail, the shear ring feature on the pin pulls inside the sleeve fully expanding the diameter and drawing the work pieces together.

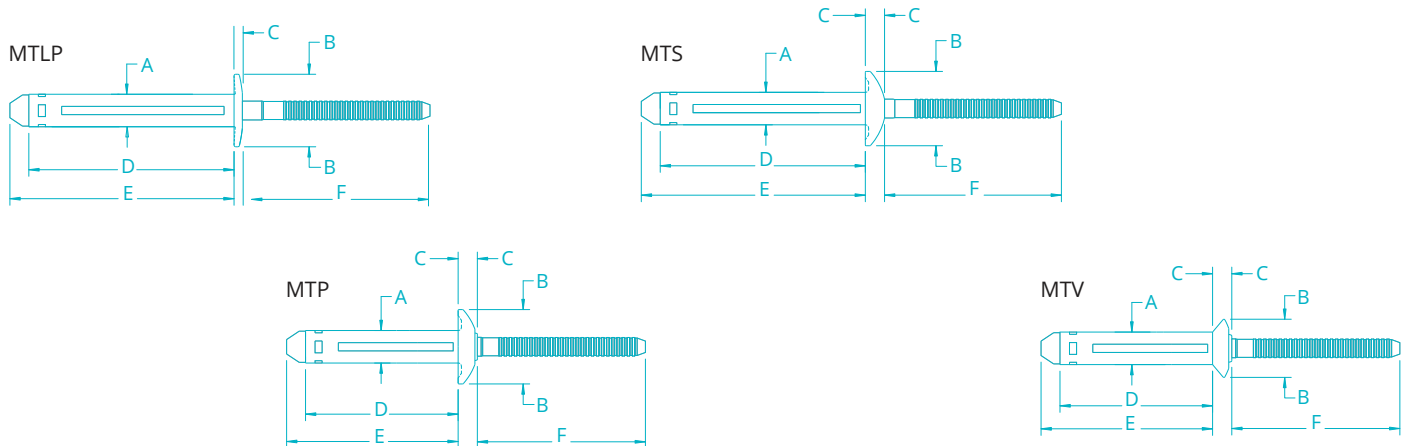


- 3 Continued pulling on the pintail expands the sleeve to maximum allowable diameter. As the shear ring reaches the backside of the work piece it breaks and catches on the tapered annular grooves, keeping high pressure on the blind side of the work pieces as the pin continues to draw down inside the sleeve.



- 4 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

Data and Dimensions



Magna-Tite Dimensions

| DIA. | PART NO. | GRIP RANGE | HOLE SIZE | A NOM | B NOM | C NOM | D MAX | E MAX | F MIN |
|------------------------------|-------------|-------------|-------------|-------|-------|-------|-------|-------|-------|
| Protruding Head | | | | | | | | | |
| 3/16" | MTP-B6-5S | .050 - .312 | .205 - .221 | .199 | .453 | .113 | .890 | 1.020 | .940 |
| | MTP-B6-6S | .100 - .375 | .205 - .221 | .199 | .453 | .113 | .940 | 1.070 | .940 |
| | MTP-B6-8S | .250 - .500 | .205 - .221 | .199 | .453 | .113 | 1.090 | 1.120 | .940 |
| | MTP-B6-10S | .375 - .625 | .205 - .221 | .199 | .453 | .113 | 1.215 | 1.345 | .940 |
| | MTP-B6-12S | .500 - .750 | .205 - .221 | .199 | .453 | .113 | 1.340 | 1.470 | .940 |
| 8 (1/4") | MTP-B8-4S | .040 - .250 | .250 - .263 | .239 | .530 | .120 | .825 | .990 | .950 |
| | MTP-B8-6S | .125 - .375 | .250 - .263 | .239 | .530 | .120 | .955 | 1.120 | .950 |
| | MTP-B8-7S | .160 - .410 | .250 - .263 | .239 | .530 | .120 | .985 | 1.150 | .950 |
| | MTP-B8-8S | .250 - .500 | .250 - .263 | .239 | .530 | .120 | 1.075 | 1.240 | .950 |
| | MTP-B8-10S | .375 - .625 | .250 - .263 | .239 | .530 | .120 | 1.200 | 1.365 | .950 |
| | MTP-B8-12S | .500 - .750 | .250 - .263 | .239 | .530 | .120 | 1.325 | 1.490 | .950 |
| Shaveable Head | | | | | | | | | |
| 6 (3/16") | MTS-B6-8S | .050 - .500 | .205 - .221 | .199 | .453 | .113 | 1.010 | 1.140 | .940 |
| | MTS-B6-12S | .050 - .750 | .205 - .221 | .199 | .453 | .113 | 1.260 | 1.390 | .940 |
| Low Profile (non-structural) | | | | | | | | | |
| 6 (3/16") | MTLP-B6-4 | .050 - .250 | .205 - .221 | .199 | .442 | .051 | .840 | .970 | .940 |
| | MTLP-B6-8 | .187 - .500 | .205 - .221 | .199 | .442 | .051 | 1.090 | 1.220 | .940 |
| | MTLP-B6-12 | .375 - .750 | .205 - .221 | .199 | .442 | .051 | 1.260 | 1.390 | .940 |
| | MTLP-B6-12X | .050 - .750 | .205 - .221 | .199 | .442 | .051 | 1.260 | 1.390 | .940 |
| 100° Countersunk Oval Head | | | | | | | | | |
| 6 (3/16") | MTV-B6-5S | .070 - .312 | .205 - .221 | .199 | .365 | .043 | .910 | 1.040 | .940 |
| | MTV-B6-7S | .160 - .410 | .205 - .221 | .199 | .365 | .043 | 1.010 | 1.140 | .940 |
| | MTV-B6-8S | .250 - .500 | .205 - .221 | .199 | .365 | .043 | 1.090 | 1.220 | .940 |
| | MTV-B6-10S | .375 - .625 | .205 - .221 | .199 | .365 | .043 | 1.215 | 1.345 | .940 |
| | MTV-B6-12S | .500 - .750 | .205 - .221 | .199 | .365 | .043 | 1.340 | 1.470 | .940 |

Installed Values in Nominal Grip (lbs.)

| DIA. | | HEAD STYLES | | | | | | | |
|-------|---------------|-------------|------|-----------|------|-------------|------|------|------|
| | | PROTRUDING | | SHAVEABLE | | LOW PROFILE | | OVAL | |
| | | MIN. | TYP. | MIN. | TYP. | MIN. | TYP. | MIN. | TYP. |
| 3/16" | Shear | 550 | 630 | 550 | 630 | 300* | 350 | 550 | 630 |
| | Tensile | 390 | 450 | 390 | 450 | 390 | 450 | 390 | 450 |
| | Pin Retention | 70 | 100 | 70 | 100 | 70 | 100 | 70 | 100 |
| 1/4" | Shear | 950 | 1100 | | | | | | |
| | Tensile | 575 | 650 | | | | | | |
| | Pin Retention | 70 | 100 | | | | | | |

*550 lbs. minimum in minimum grip only

Ordering Information

Follow the form below to construct a part number for ordering Magna-Tite®.
Refer to the Grip Tables for grip numbers.

MT(HEAD STYLE) – (MATERIAL) (DIAMETER) — (GRIP NUMBER) (SHAVEABLE OR NOT)

Example: MTP-B6-8S is a Protruding Head Magna-Tite, Aluminum, 3/16" Diameter, 8 Grip, Shaveable

| HEAD STYLE | PREFIX |
|-----------------------|--------|
| Protruding Head | P |
| Shaveable Head | S |
| Low Profile | LP |
| Countersunk Oval Head | V |

| MATERIAL | CODE |
|----------|------|
| Aluminum | B |

| DIA. | CODE |
|-------|------|
| 3/16" | 6 |
| 1/4" | 8 |
| 5/16" | 10 |

Materials and Finishes

| MATERIAL | SLEEVE | PIN | SLEEVE FINISH | PIN FINISH |
|----------|-------------|-------------|----------------|----------------|
| Aluminum | 5000 Series | 7000 Series | Clear Chromate | Clear Chromate |



Model
BV4500-118



Model
2480

Advanced Huck® Tooling

Huck offers a choice of hydraulic installation tools designed for the the Magna-Tite. Supporting these tools is Huck's Powerig® 940, a portable hydraulic power source for moderate production and repair applications.

Installation Tools - Weight and Dimensions

| DIA. | MODEL | NOSE ASSEMBLY | INSERT | TYPE | WEIGHT | LENGTH | HEIGHT | WIDTH |
|-------|------------|---------------|------------------------------------|-------------|----------|--------|--------|-------|
| 3/16" | BV4500-118 | 99-3487-6MT | 126969-Protruding, 126970-Flat* | Battery | 5 LBS | 14.25" | 10.63" | 3.75" |
| | 2022 | 99-3487-6MT | | Pneudraulic | 5.4 LBS | 8.6" | 12.6" | 4.4" |
| | 2024 | 99-3487-6MT | | Pneudraulic | 5.75 LBS | 8.9" | 12.6" | 4.4" |
| | 202 | 99-3487-6MT | | Pneudraulic | 5.1 LBS | 8.6" | 12.5" | 4.1" |
| | 2480 | | | Hydraulic | 2.2 LBS | 8.6" | 6.5" | 1.9" |
| 1/4" | BV4500-118 | 99-3487-8MT | 126971-Protruding, 126972-Flat* | Battery | 5 LBS | 14.25" | 10.63" | 3.75" |
| | 2022 | 99-3487-8MT | | Pneudraulic | 5.4 LBS | 8.6" | 12.6" | 4.4" |
| | 2024 | 99-3487-8MT | | Pneudraulic | 5.75 LBS | 8.9" | 12.6" | 4.4" |
| | 202 | 99-3487-8MT | | Pneudraulic | 5.1 LBS | 8.6" | 12.5" | 4.1" |
| | 2480 | | | Hydraulic | 2.2 LBS | 8.6" | 6.5" | 1.9" |

*Insert Included with nose assembly



**HOWMET
AEROSPACE**

Howmet Fastening Systems

Industrial Division Brands



Huck, Marson, Recoil, Keysert, Camloc, Simmonds and Snep are trademarks of Howmet Aerospace Inc. and/or its subsidiaries.

North America

Waco Operations

PO Box 8117
8001 Imperial Drive
Waco, TX 76714-8117
Tel: +1 800-388-4825
Fax: +1 800-798-4825
sales.waco@howmet.com

Kingston Operations

1 Corporate Drive
Kingston, NY 12401
Tel: +1 800-278-4825
Fax: +1 845-334-7333
sales.kingston@howmet.com

Tracy Operations

1925 North MacArthur Drive
Tracy, CA 95376
Tel: +1 800-826-2884
Fax: +1 800-573-2645
sales.idg@howmet.com

Global

Telford Operations

Unit C, Stafford Park 7
Telford, Shropshire
England TF3 3BQ
Tel: +44 (0) 1952-290011
Fax: +44 (0) 1952-290459
sales.telford@howmet.com

Melbourne Operations

1508 Centre Road
Clayton, Victoria
Australia 3168
Tel: +613-8545-3333
Fax: +613-8545-3390
sales.melbourne@howmet.com

Tokyo Operations (Japan & Korea)

8F CIRCLES Nihonbashi-
Bakurocho Bldg
1-5-12 Nihonbashi-Bakurocho
103-0002 Tokyo Japan
Tel: +81-3-5642-8360
Tel: +81-3-5642-8361 x8365
Fax: +81-3-5644-5772

Suzhou Operations

58 Yinsheng Road,
SIP Suzhou, Jiangsu
215126 China
Tel: +86-512-62863800-8888

hfsindustrial.com

[YouTube.com/HFSIndustrial](https://www.youtube.com/HFSIndustrial)

The information contained in this publication is only for general guidance, and is not intended to create any warranty, express, implied, or statutory; all warranties are contained only in Howmet Fastening Systems' written quotations, acknowledgments, and/or purchase orders. It is recommended that the user secure specific, up-to-date data and information regarding each application and/or use of such products.