



**ATI® TOOLS**

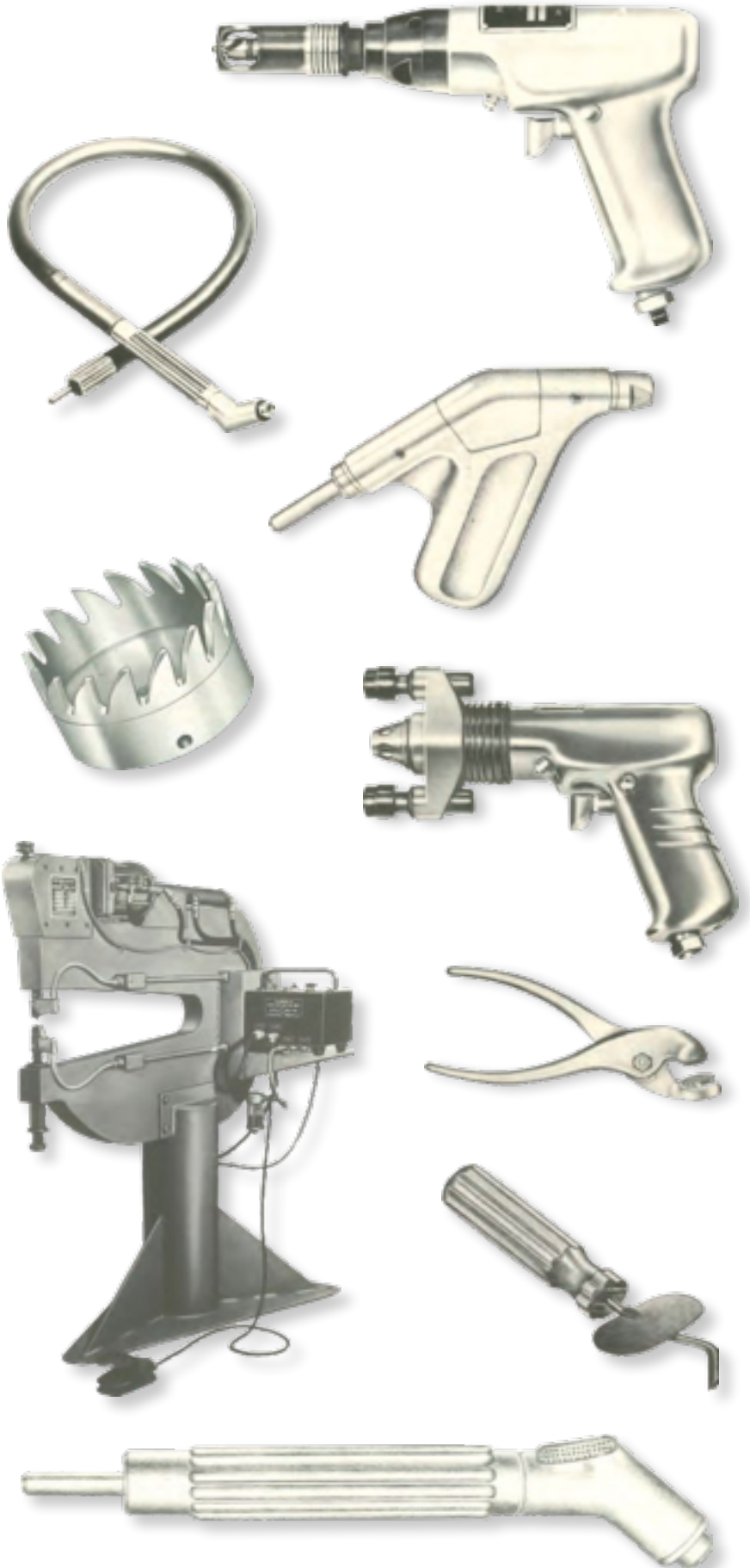
A Snap-on Specialty Tools Brand

# TOOLS FOR AVIATION AND AEROSPACE



PRODUCT CATALOG 2016

***A legacy brand serving OEM customers and airlines since 1938!***



# THE ATI® STORY



ATI was formed in 1938 in Los Angeles, California and incorporated as Aircraft Tools, Inc., in 1949. Strategically located near LA International Airport, we were able to serve Douglas, Northrop, Lockheed and North American Aviation. In the mid-1950s, we opened several U.S. sales offices in order to support other companies like Boeing, Grumman, Beech, Cessna, General Dynamics, LTV, Sikorsky, Rohr and Bell Helicopter. As business changed in the late 1950s, we began soliciting machine shop work and formed a tool and an aerospace division that allowed us to grow substantially.

In 1966, ATI relocated to Escondido, CA, just north of San Diego. It had established itself as the largest supplier of quality aircraft fabricating tools in the United States and Canada. In 1972, the employees of ATI purchased the company and changed the name to ATI Industries. We began concentrating on international markets, setting up sales distribution into 35 countries. In March of 1986, ATI brand was sold to, and became a subsidiary of, Snap-on Tools Incorporated.

When defense budgets were drastically reduced in the early 1990s, ATI terminated all aerospace missile component work to concentrate solely on the core commercial tools business. In keeping with this focus, we changed our company name to ATI Tools, Inc. and kept that name until January 1, 1996, when we became ATI Tools Division, Snap-on Tools Company.

In early 2009, ATI consolidated with CDI Torque, another Snap-on Tools company, and formed Snap-on Specialty Tools, which resides today in City of Industry, California. Snap-on Specialty Tools has a full service design and engineering staff and the capabilities to build custom tools for specific applications. ATI tools adhere to Snap-on's rigid engineering standards including:

**Certified:**

ISO 9001:2008 Certificate No.: CERT-08745-2006-AQ-HOU-ANAB Rev. 1

ISO 14001:2004 Certificate No.: CERT-02711-2006-AE-HOU-ANAB

18001:2007 Certificate No.: CERT-03904-2006-SOC-HOU-OHSAS

**Adhere to:**

ISO 190011 – Audit Standards

ISO 17025 (ANSI NCSL-2540-1-1994)

laboratory Calibration Standard

ANSI/NCSL Z540-1, American National Standard for Calibration

ANSI/ASQ Z1.4-2003 and MIL-STD-105E

Sampling Inspection Plan

We also adhere to many other product-specific standards:

MIL standards

ANSI standards

GOV standards

ISO standards

ASME standards

NIST standards

We trust this catalog will serve as a reference guide for your fabricating tool needs. Thanks for your continued support and business.

# Snap-on Incorporated

## Who We Are

### OUR MISSION

The most valued productivity solutions in the world

#### BELIEFS

We deeply believe in:

Non-negotiable Product and Workplace Safety  
 Uncompromising Quality  
 Passionate Customer Care  
 Fearless Innovation  
 Rapid Continuous Improvement

#### VALUES

Our behaviors define our success:

We demonstrate Integrity.  
 We tell the Truth.  
 We respect the Individual.  
 We promote Teamwork.  
 We Listen.

#### VISION

To be acknowledged as the:

Brand of Choice  
 Employer of Choice  
 Franchisor of Choice  
 Business Partner of Choice  
 Investment of Choice

### »»» Manufacturing Excellence

Through meticulous manufacturing, precise heat treatment specifications, rigid inspection standards and skilled craftsmanship, we provide safe, functional and cost-effective aircraft tools engineered to perform, meet, and exceed the standards of serious aviation professionals.

We are dedicated to exceeding customer expectations by manufacturing and delivering the highest quality tools on time and within budget. Uncompromising attention to detail, versatility, and demand for superior quality enables us to provide customers with cutting-edge solutions to their tool needs.

### »»» SHIPPING:

Shipments are FOB our dock, City of Industry, CA, at which point title transfers to the Customer. All shipments are freight collect.

### »»» WARRANTY:

We warranty our tools against defects in material and workmanship for a period of ninety days after shipment. The warranty does not apply to any product that has been used, abused, or worn out from use. If the tool has been modified in any way, except for etching on the tool, the warranty is null and void.

### »»» RETURN POLICY:

- All returns require approval and an RMA number. Under no circumstances shall arbitrary returns or debits be accepted and/or approved. Returns received by ATI without an authorized RMA number will be returned to the customer, freight collect.
- Shipments must be clearly identified on the outside with the authorized RMA number.
- All items considered for return must be in new and resalable condition.
- Returns may be subject to a restocking charge and/or an offsetting order equal to one and one-half (1.5) times the net value of items being returned. The only exception to this rule is when ATI has shipped items in error.
- All items considered for return must have been purchased within 60 days.
- All returns must be shipped freight pre-paid to City of Industry, CA. Credit for shipping will be issued only on return of goods originally shipped in error by ATI.

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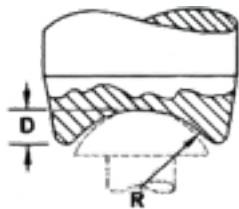
## RIVETING TOOLS AND ACCESSORIES

### RIVET SET CUPPING STANDARD FOR AN & MS RIVETS

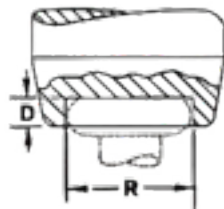


Rivet set cups are machined to a larger radius than the maximum rivet head radius and are shallower in cup depth than the minimum thickness:

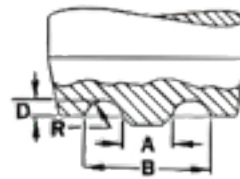
- (1) To allow for a slight upsetting of the head in forming the upset end.
- (2) To allow for a slight misalignment in holding the set on the rivet head without touching the riveted surface.



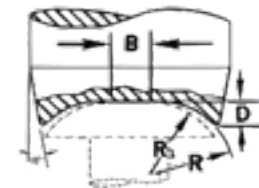
**AN 430  
AN 435**



**AN 442**



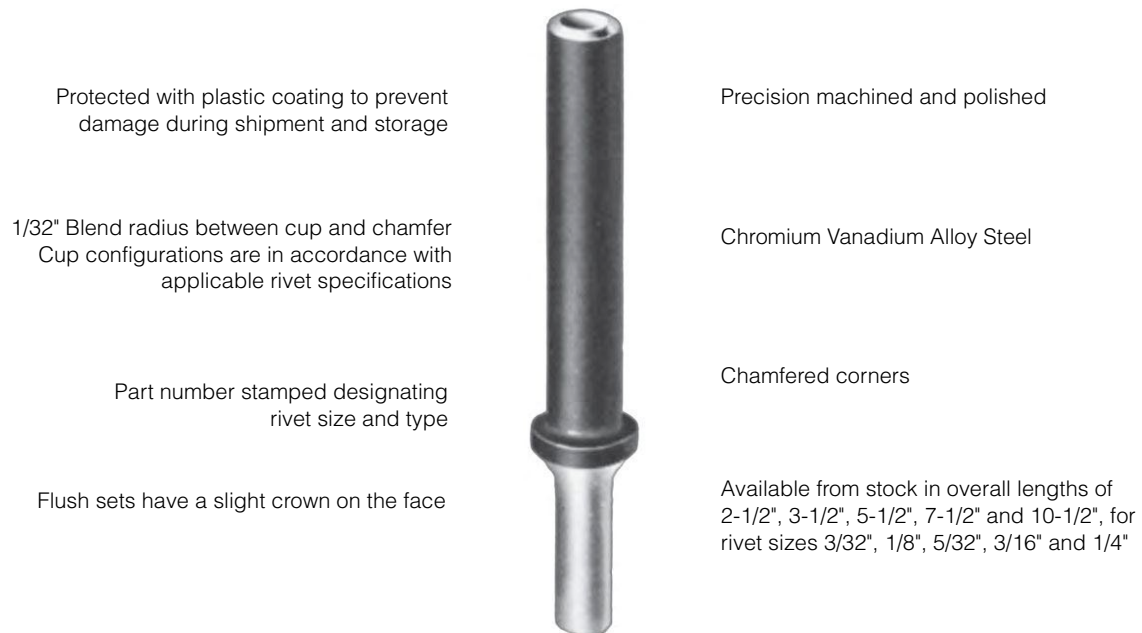
**AN 450      MS 20450**



**AN 470      MS 20470**

| Rivet Number                           | Rivet Type              | DIM            | RIVET SIZE   |              |            |             |              |              |             |      |
|----------------------------------------|-------------------------|----------------|--------------|--------------|------------|-------------|--------------|--------------|-------------|------|
|                                        |                         |                | 1/16"        | 3/32"        | 1/8"       | 5/32"       | 3/16"        | 1/4"         | 5/16"       | 3/8" |
| AN430                                  | ROUND HEAD              | R              | .075         | .112         | .161       | .184        | .222         | .298         | .369        | .445 |
|                                        |                         | D              | .031         | .049         | .068       | .086        | .104         | .139         | .162        | .195 |
| AN435<br>MS20435                       | BUTTON HEAD             | R              | .061         | .095         | .128       | .160        | .192         | .256         | .321        | .382 |
|                                        |                         | D              | .040         | .063         | .084       | .105        | .126         | .168         | .206        | .243 |
| AN442                                  | FLAT HEAD               | R              | .141         | .204         | .267       | .333        | .399         | .530         | .661        | .792 |
|                                        |                         | D              | .014         | .022         | .032       | .042        | .052         | .072         | .092        | .110 |
| AN456                                  | BRAZIER HEAD            | R              | -            | .142         | .213       | .284        | .354         | .415         | .567        | .709 |
|                                        |                         | D              | -            | .018         | .030       | .047        | .057         | .069         | .094        | .116 |
| AN470<br>MS20470<br>MS20613<br>MS20615 | UNIVERSAL HEAD          | B              | .041         | .056         | .072       | .088        | .103         | .135         | .166        | .200 |
|                                        |                         | D              | .019         | .027         | .040       | .049        | .057         | .077         | .100        | .122 |
|                                        |                         | R              | .070         | .098         | .124       | .152        | .180         | .233         | .288        | .345 |
|                                        |                         | R <sub>1</sub> | .054         | .082         | .108       | .135        | .164         | .217         | .272        | .328 |
| AN450<br>MS20450                       | THOMPSON HEAD (TUBULAR) |                | <b>1/16"</b> | <b>3/32"</b> | <b>#40</b> | <b>1/8"</b> | <b>9/64"</b> | <b>3/16"</b> | <b>1/4"</b> |      |
|                                        |                         | A              | .033         | .055         | .069       | .082        | .094         | .130         | .170        |      |
|                                        |                         | B              | .110         | .158         | .160       | .205        | .258         | .294         | .366        |      |
|                                        |                         | R              | .019         | .026         | .023       | .031        | .041         | .041         | .049        |      |
|                                        |                         | D              | .014         | .021         | .023       | .031        | .041         | .041         | .045        |      |

## COMPARE THE DIFFERENCE



**CAUTION:** Power tools can cause flying particles.  
**WEAR SAFETY GOGGLES** (users and bystanders).  
**WEAR HEARING PROTECTION.** Power tools generate noise.

Beginning with a sound basic design, ATI rivet sets incorporate the ultimate in proper distribution of mass, with correct grain structure, made possible by the cold heading process. These factors along with correct heat-treating procedures eliminate breakage and provide for a structurally sound driven rivet.

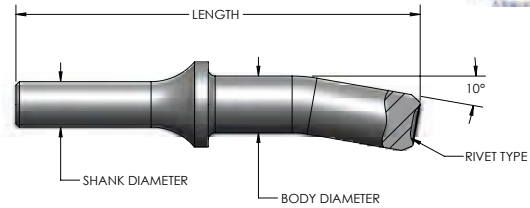
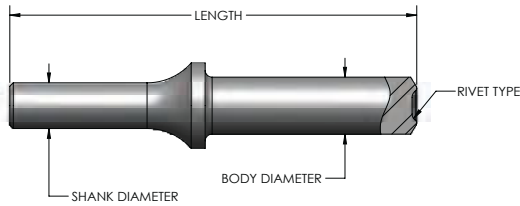
Highly polished precision cups are held to exact tolerances, and shanks are CNC- machined and chamfered. Identifying symbols stamped on all sets show rivet size, type and tool number. The working surface of each unit is coated with clear plastic to prevent damage during shipment.

| RIVET TYPE CHART                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |  |
| <b>AN435<br/>Button</b>                                                             | <b>AN430<br/>Round</b>                                                              | <b>AN455<br/>Brazier</b>                                                            | <b>AN456<br/>Mod. Brazier</b>                                                       | <b>AN470<br/>Universal</b>                                                          | <b>AN442<br/>Flat</b>                                                                 | <b>BACR 15FT<br/>Boeing<br/>Reduced Head</b>                                          | <b>AN426<br/>Countersunk</b>                                                          | <b>AN450<br/>Semi-Tubular</b>                                                         |

## RIVETING TOOLS AND ACCESSORIES

### STRAIGHT AND OFFSET RIVET SETS

\*Special rivet sets may be ordered by providing rivet size, type, length, and shank diameter.



| Rivet Size | Length  | AN470 RIVET, .401 SHANK    |                          |               |
|------------|---------|----------------------------|--------------------------|---------------|
|            |         | Straight Drive Part Number | Offset Drive Part Number | Body Diameter |
| 1/16"      | 3-1/2"  | ATI100A31/16               | ATI101A31/16             | 1/2"          |
| 3/32"      | 2-1/2"  | ATI100A2-332               | -                        | 1/2"          |
|            | 3-1/2"  | ATI100A33/32               | ATI101A33/32             | 1/2"          |
|            | 5-1/2"  | ATI100A53/32               | ATI101A53/32             | 1/2"          |
|            | 7-1/2"  | ATI100A73/32               | ATI101A73/32             | 1/2"          |
|            | 10-1/2" | ATI100A8332                | ATI101A8332              | 1/2"          |
|            | 13-1/2" | ATI100A93/32               | -                        | 1/2"          |
| 1/8"       | 2-1/2"  | ATI100A218                 | -                        | 1/2"          |
|            | 3-1/2"  | ATI100A3-1/8               | ATI101A3-1/8             | 1/2"          |
|            | 5-1/2"  | ATI100A51/8                | ATI101A51/8              | 1/2"          |
|            | 7-1/2"  | ATI100A71/8                | ATI101A71/8              | 1/2"          |
|            | 10-1/2" | ATI100A818                 | ATI101A818               | 1/2"          |
|            | 13-1/2" | ATI100A91/8                | ATI101A91/8              | 1/2"          |
| 5/32"      | 2-1/2"  | ATI100A2532                | -                        | 1/2"          |
|            | 3-1/2"  | ATI100A35/32               | ATI101A35/32             | 1/2"          |
|            | 5-1/2"  | ATI100A55/32               | ATI101A5-532             | 1/2"          |
|            | 7-1/2"  | ATI100A75/32               | ATI101A75/32             | 1/2"          |
|            | 10-1/2" | ATI100A8532                | ATI101A8532              | 1/2"          |
|            | 13-1/2" | ATI100A95/32               | ATI101A95/32             | 1/2"          |
| 3/16"      | 2-1/2"  | ATI100A2316                | -                        | 1/2"          |
|            | 3-1/2"  | ATI100A33/16               | ATI101A3316              | 1/2"          |
|            | 5-1/2"  | ATI100A53/16               | ATI101A53/16             | 1/2"          |
|            | 7-1/2"  | ATI100A73/16               | ATI101A73/16             | 1/2"          |
|            | 10-1/2" | ATI100A8316                | ATI101A8316              | 1/2"          |
|            | 13-1/2" | ATI100A93/16               | ATI101A93/16             | 1/2"          |
| 7/32"      | 2-1/2"  | ATI100A2732                | -                        | 1/2"          |
|            | 3-1/2"  | ATI100A37/32               | ATI101A3732              | 1/2"          |
|            | 5-1/2"  | ATI100A57/32               | ATI101A57/32             | 1/2"          |
|            | 7-1/2"  | ATI100A77/32               | ATI101A77/32             | 1/2"          |
| 1/4"       | 10-1/2" | ATI100A8732                | -                        | 1/2"          |
|            | 2-1/2"  | ATI100A214                 | -                        | 5/8"          |
|            | 3-1/2"  | ATI100A3-1/4               | ATI101A3-1/4             | 5/8"          |
|            | 5-1/2"  | ATI100A514                 | ATI101A514               | 5/8"          |
|            | 7-1/2"  | ATI100A7-1/4               | ATI101A7-1/4             | 5/8"          |
|            | 10-1/2" | ATI100A814                 | -                        | 5/8"          |
| FLUSH      | 13-1/2" | ATI100A9-1/4               | ATI101A9-1/4             | 5/8"          |
|            | 2-1/2"  | ATI100AF-2A                | ATI101AF-2A              | 1/2"          |
|            | 2-1/2"  | ATI100AF-2B                | ATI101AF-2B              | 5/8"          |
|            | 3-1/2"  | ATI100AF-3A                | ATI101AF-3A              | 1/2"          |
|            | 3-1/2"  | ATI100AF-3B                | ATI101AF-3B              | 5/8"          |
|            | 5-1/2"  | ATI100AF-5A                | ATI101AF-5A              | 1/2"          |
|            | 5-1/2"  | ATI100AF-5B                | ATI101AF-5B              | 5/8"          |
|            | 7-1/2"  | ATI100AF-7A                | ATI101AF-7A              | 1/2"          |
|            | 10-1/2" | ATI100AF8A                 | ATI101AF8A               | 1/2"          |
|            | 13-1/2" | ATI100AF-9A                | ATI101AF-9A              | 1/2"          |

| Rivet Size | Length  | AN470 RIVET, .498 SHANK    |               |
|------------|---------|----------------------------|---------------|
|            |         | Straight Drive Part Number | Body Diameter |
| 5/32"      | 3-1/2"  | ATI100B35/32               | 5/8"          |
|            | 5-1/2"  | ATI100B55/32               | 5/8"          |
|            | 7-1/2"  | ATI100B75/32               | 5/8"          |
|            | 10-1/2" | ATI100B8532                | 5/8"          |
|            | 13-1/2" | ATI100B95/32               | 5/8"          |
| 3/16"      | 3-1/2"  | ATI100B33/16               | 5/8"          |
|            | 5-1/2"  | ATI100B53/16               | 5/8"          |
|            | 7-1/2"  | ATI100B73/16               | 5/8"          |
|            | 10-1/2" | ATI100B8316                | 5/8"          |
|            | 13-1/2" | ATI100B93/16               | 5/8"          |
| 7/32"      | 3-1/2"  | ATI100B37/32               | 5/8"          |
|            | 5-1/2"  | ATI100B57/32               | 5/8"          |
|            | 7-1/2"  | ATI100B77/32               | 5/8"          |
| 1/4"       | 10-1/2" | ATI100B8732                | 5/8"          |
|            | 3-1/2"  | ATI100B3-1/4               | 5/8"          |
|            | 5-1/2"  | ATI100B514                 | 5/8"          |
|            | 7-1/2"  | ATI100B7-1/4               | 5/8"          |
|            | 10-1/2" | ATI100B814                 | 5/8"          |
| FLUSH      | 13-1/2" | ATI100B9-1/4               | 5/8"          |
|            | 3-1/2"  | ATI100BF-3B                | 5/8"          |
|            | 5-1/2"  | ATI100BF-5B                | 5/8"          |
|            | 7-1/2"  | ATI100BF-7B                | 5/8"          |

| Rivet Size | Length | AN470 RIVET, .498 SHANK  |               |
|------------|--------|--------------------------|---------------|
|            |        | Offset Drive Part Number | Body Diameter |
| 1/4"       | 3-1/2" | ATI101B3-1/4             | 5/8"          |
|            | 5-1/2" | ATI101B514               | 5/8"          |

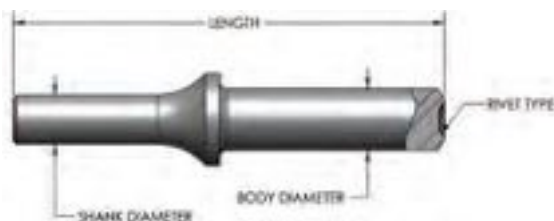
| Rivet Size | Length | AN430 RIVET, .401 SHANK |           | AN435 RIVET, .401 SHANK |           | AN455 RIVET, .401 SHANK |           |
|------------|--------|-------------------------|-----------|-------------------------|-----------|-------------------------|-----------|
|            |        | Part Number             | Body Dia. | Part Number             | Body Dia. | Part Number             | Body Dia. |
| 3/32"      | 3-1/2" | ATI100A3332A            | 1/2"      | ATI100A3332B            | 1/2"      | ATI100A3332E            | 1/2"      |
| 1/8"       |        | ATI100A31/8A            | 1/2"      | ATI100A31/8B            | 1/2"      | ATI100A31/8E            | 1/2"      |
| 5/32"      |        | ATI100A3532A            | 1/2"      | ATI100A3532B            | 1/2"      | ATI100A3532E            | 1/2"      |
| 3/16"      |        | ATI100A3316A            | 1/2"      | ATI100A3316B            | 1/2"      | ATI100A3316E            | 1/2"      |
| 1/4"       |        | ATI100A31/4A            | 5/8"      | ATI100A31/4B            | 5/8"      |                         |           |
|            | 7-1/2" | ATI100A71/4A            | 5/8"      |                         |           |                         |           |



## RIVETING TOOLS AND ACCESSORIES

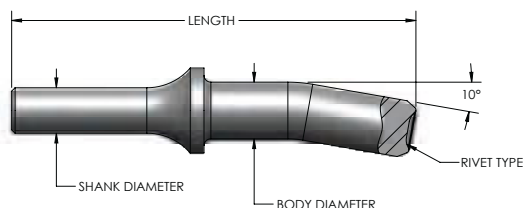
### STRAIGHT AND OFFSET RIVET SETS

\*Special rivet sets may be ordered by providing rivet size, type, length, and shank diameter.



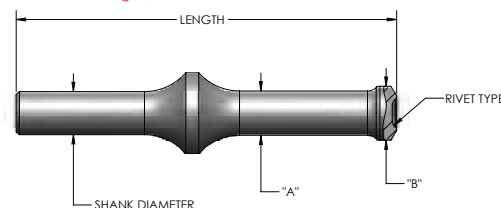
#### STRAIGHT RIVET SETS FOR MODIFIED UNIVERSAL HEAD RIVETS, .401 SHANK

| Rivet Size | Length | BACR15FT RIVET |               |
|------------|--------|----------------|---------------|
|            |        | Part Number    | Body Diameter |
| 3/32"      | 3-1/2" | ATI100A3332F   | 1/2"          |
|            | 5-1/2" | ATI100A5332F   | 1/2"          |
| 1/8"       | 2-1/2" | ATI100A21/8F   | 1/2"          |
|            | 3-1/2" | ATI100A31/8F   | 1/2"          |
| 5/32"      | 5-1/2" | ATI100A51/8F   | 1/2"          |
|            | 2-1/2" | ATI100A2532F   | 1/2"          |
| 5/32"      | 3-1/2" | ATI100A3532F   | 1/2"          |
|            | 5-1/2" | ATI100A5532F   | 1/2"          |
| 3/16"      | 2-1/2" | ATI100A2316F   | 1/2"          |
|            | 3-1/2" | ATI100A3316F   | 1/2"          |
| 3/16"      | 5-1/2" | ATI100A5316F   | 1/2"          |
|            | 7-1/2" | ATI100A7316F   | 1/2"          |
| 7/32"      | 2-1/2" | ATI100A2732F   | 1/2"          |
|            | 3-1/2" | ATI100A3732F   | 1/2"          |
| 7/32"      | 5-1/2" | ATI100A5732F   | 1/2"          |
| 1/4"       | 2-1/2" | ATI100A21/4F   | 5/8"          |
|            | 3-1/2" | ATI100A31/4F   | 5/8"          |
| 1/4"       | 5-1/2" | ATI100A51/4F   | 5/8"          |



#### OFFSET RIVET SETS FOR MODIFIED UNIVERSAL HEAD RIVETS, .401 SHANK

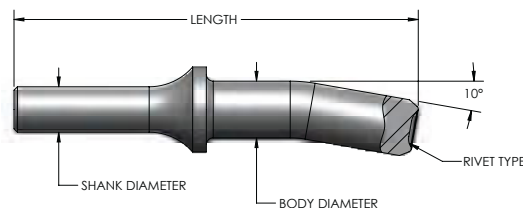
| Rivet Size | Length | BACR15FT RIVET |               |
|------------|--------|----------------|---------------|
|            |        | Part Number    | Body Diameter |
| 1/8"       | 3-1/2" | ATI101A31/8F   | 1/2"          |
|            | 5-1/2" | ATI101A518F    | 1/2"          |
| 5/32"      | 3-1/2" | ATI101A3532F   | 1/2"          |
|            | 5-1/2" | ATI101A5532F   | 1/2"          |
| 3/16"      | 3-1/2" | ATI101A3316F   | 1/2"          |
|            | 5-1/2" | ATI101A5316F   | 1/2"          |
| 7/32"      | 3-1/2" | ATI101A3732F   | 1/2"          |
|            | 5-1/2" | ATI101A5732F   | 1/2"          |
| 1/4"       | 3-1/2" | ATI101A31/4F   | 5/8"          |
|            | 5-1/2" | ATI101A514F    | 5/8"          |



#### STRAIGHT RIVET SETS FOR MODIFIED UNIVERSAL HEAD RIVETS, .401 SHANK

Manufactured from H13 material and magnetic particle tested

| Rivet Size | Part Number  | BACR15FT RIVET    |               |               |        |
|------------|--------------|-------------------|---------------|---------------|--------|
|            |              | Reference         | Dimension "A" | Dimension "B" | Length |
| 1/8"       | 1112MBC4014  | ST1112MB-C401-4   | .280          | .280          | 3.31"  |
|            | ST1112BC453  | ST1112B-C401-4-53 | .281          | .437          | 3.31"  |
| 5/32"      | 1112MBC4015  | ST1112MB-C401-5   | .310          | .350          | 3.31"  |
|            | 1112MBC401A5 | ST1112MB-C401A-5  | .310          | .310          | 3.31"  |
| 5/32"      | ST1112BC553  | ST1112B-C401-5-53 | .312          | .500          | 3.31"  |
| 3/16"      | 1112MBC4016  | ST1112MB-C401-6   | .340          | .410          | 3.31"  |
|            | 1112MBC401A6 | ST1112MB-C401A-6  | .340          | .368          | 3.31"  |
| 3/16"      | ST1112BC653  | ST1112B-C401-6-53 | .344          | .562          | 3.31"  |
|            | 1112BC401637 | ST1112B-C401-6-37 | .562          | .562          | 2.31"  |
| 7/32"      | ST1112MBC7   | ST1112MB-C401-7   | .380          | .480          | 3.31"  |
|            | 1112MBC401A7 | ST1112MB-C401A-7  | .380          | .406          | 3.31"  |
| 1/4"       | 1112MBC4018  | ST1112MB-C401-8   | .410          | .540          | 3.31"  |
|            | 1112MBC401A8 | ST1112MB-C401A-8  | .410          | .482          | 3.31"  |
| 1/4"       | ST1112BC853  | ST1112B-C401-8-53 | .406          | .656          | 3.31"  |
|            | 1112BC401837 | ST1112B-C401-8-37 | .656          | .656          | 2.31"  |
| 9/32"      | 1112MBC4019  | ST1112MB-C401-9   | .440          | .610          | 3.31"  |



#### OFFSET RIVET SETS FOR MODIFIED UNIVERSAL HEAD RIVETS, .401 SHANK

Manufactured from H13 material and magnetic particle tested

| Rivet Size | Length | Part Number   | BACR15FT RIVET     |               |
|------------|--------|---------------|--------------------|---------------|
|            |        |               | Reference          | Body Diameter |
| 1/8"       | 3-1/2" | 1112MBR40143  | ST1112MB-R401-4-3  | .375          |
| 5/32"      | 3-1/2" | 1112MBR40153  | ST1112MB-R401-5-3  | .410          |
|            | 5-1/2" | 1112MBR40155  | ST1112MB-R401-5-5  | .410          |
| 3/16"      | 3-1/2" | ST1112MBR63   | ST1112MB-R401-6-3  | .480          |
|            | 5-1/2" | *ST1112MBR611 | ST1112MB-R401C-611 | .560          |
| 7/32"      | 3-1/2" | 1112MBR40173  | ST1112MB-R401-7-3  | .560          |
|            | 5-1/2" | 1112MBR40175  | ST1112MB-R401-7-5  | .560          |
| 1/4"       | 3-1/2" | 1112MBR40183  | ST1112MB-R401-8-3  | .610          |

\*ST1112MBR611 has 20° offset

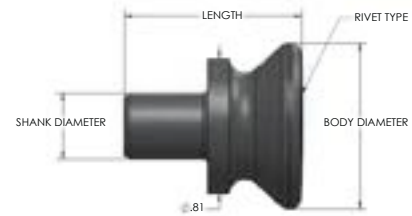


**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## RIVETING TOOLS AND ACCESSORIES

### JIFFY TYPE RIVET SETS , GOOSENECKS, AND DOUBLE OFFSETS

\*Special Jiffy sets may be ordered by providing rivet size, type, length, and shank diameter.

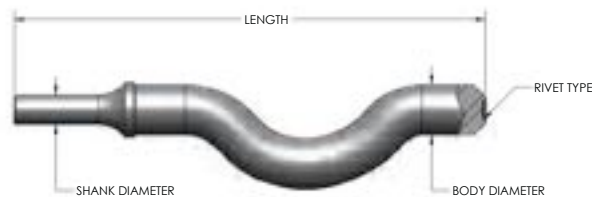


#### STRAIGHT JIFFY SETS

| Part Number | Rivet Size | Rivet Type | Length | Body Diameter | Shank Diameter |
|-------------|------------|------------|--------|---------------|----------------|
| JAT100AF-1A | FLUSH      | FLUSH      | 1"     | 1/2"          | .401           |
| JAT119A-2B  | FLUSH      | FLUSH      | 2-1/8" | 1" FACE       | .401           |
| JAT100A1332 | 3/32"      | AN470      | 1"     | 1/2"          | .401           |
| JAT100A118  | 1/8"       | AN470      | 1"     | 1/2"          | .401           |
| JAT100A1532 | 5/32"      | AN470      | 1"     | 1/2"          | .401           |
| JAT100A1316 | 3/16"      | AN470      | 1"     | 1/2"          | .401           |

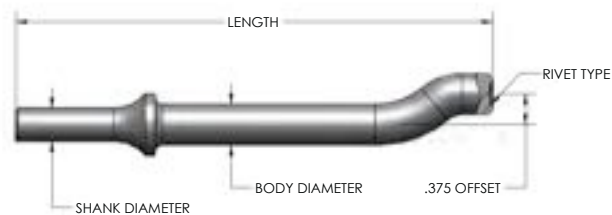
#### OFFSET JIFFY SETS

| Part Number | Rivet Size | Rivet Type | Length | Body Diameter | Shank Diameter |
|-------------|------------|------------|--------|---------------|----------------|
| JAT101A1332 | 3/32"      | AN470      | 1-5/8" | 1/2"          | .401           |
| JAT101A118  | 1/8"       | AN470      | 1-5/8" | 1/2"          | .401           |
| JAT101A1532 | 5/32"      | AN470      | 1-5/8" | 1/2"          | .401           |
| JAT101A1316 | 3/16"      | AN470      | 1-5/8" | 1/2"          | .401           |



#### GOOSENECK RIVET SETS

| Part Number  | Rivet Size | Rivet Type | Length | Body Diameter | Shank Diameter |
|--------------|------------|------------|--------|---------------|----------------|
| ATI104AF     | FLUSH      | FLUSH      | 6-5/8" | .69           | .401           |
| ATI104A-1/16 | 1/16"      | AN470      | 6-5/8" | .69           | .401           |
| ATI104A-3/32 | 3/32"      | AN470      | 6-5/8" | .69           | .401           |
| ATI104A-1/8  | 1/8"       | AN470      | 6-5/8" | .69           | .401           |
| ATI104A-5/32 | 5/32"      | AN470      | 6-5/8" | .69           | .401           |
| ATI104A-3/16 | 3/16"      | AN470      | 6-5/8" | .69           | .401           |
| ATI104A-7/32 | 7/32"      | AN470      | 6-5/8" | .69           | .401           |
| ATI104A-1/4  | 1/4"       | AN470      | 6-5/8" | .69           | .401           |



#### DOUBLE OFFSET RIVET SETS

| Part Number  | Rivet Size | Rivet Type | Length | Body Diameter | Shank Diameter |
|--------------|------------|------------|--------|---------------|----------------|
| ATI105AF     | FLUSH      | FLUSH      | 5-3/4" | 1/2"          | .401           |
| ATI105A-1/16 | 1/16"      | AN470      | 5-3/4" | 1/2"          | .401           |
| ATI105A-3/32 | 3/32"      | AN470      | 5-3/4" | 1/2"          | .401           |
| ATI105A-1/8  | 1/8"       | AN470      | 5-3/4" | 1/2"          | .401           |
| ATI105A-5/32 | 5/32"      | AN470      | 5-3/4" | 1/2"          | .401           |
| ATI105A-3/16 | 3/16"      | AN470      | 5-3/4" | 1/2"          | .401           |
| ATI105A-7/32 | 7/32"      | AN470      | 5-3/4" | 1/2"          | .401           |
| ATI105A-1/4  | 1/4"       | AN470      | 5-3/4" | 1/2"          | .401           |
| ATI105A-9/32 | 9/32"      | AN470      | 5-3/4" | 1/2"          | .401           |

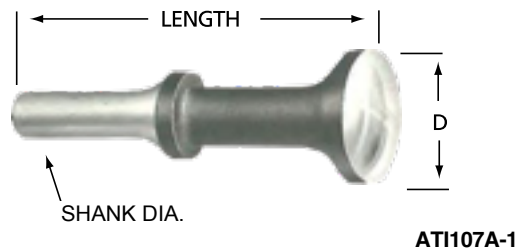




### FLUSH RIVET SET, SWIVEL-TYPE

Performs high-speed flush riveting on flat or curved surfaces and is designed for ease of handling, with a swivel action to produce quick alignment. The highly polished rivet set head is enclosed in a rubber sleeve.

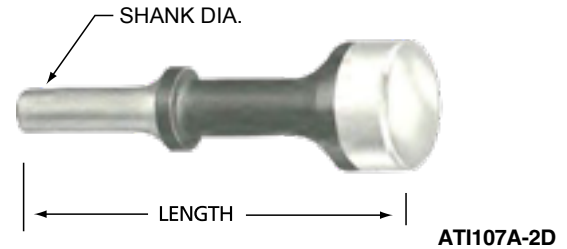
| Part Number | Face Diameter | Length | Shank Diameter |
|-------------|---------------|--------|----------------|
| ATI106A     | 1-1/4"        | 3-1/2" | .401           |
| ATI106B     | 1-1/4"        | 3-1/2" | .498           |



### FLUSH RIVET SET

Large radii at critical points enable this rivet set to withstand continuous rugged use. Where a smooth skin surface is essential, this rivet set, with its slightly crowned and highly polished face, will perform rapid flush riveting.

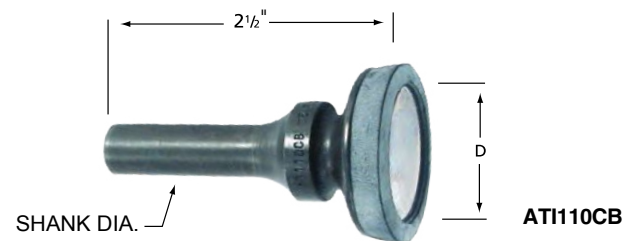
| Part Number | Face Diameter | Length | Shank Diameter |
|-------------|---------------|--------|----------------|
| ATI107A-1   | 1"            | 2-3/4" | .401           |
| ATI107A-2   | 1-1/4"        | 2-3/4" | .401           |
| ATI107A-3   | 1-1/4"        | 3-1/2" | .401           |
| ATI107A-4   | 1"            | 5-1/2" | .401           |
| ATI107A-6   | 1"            | 7-1/2" | .401           |
| ATI107A-7   | 1-1/4"        | 7-1/2" | .401           |
| ATI107B-1   | 1"            | 3"     | .498           |
| ATI107B-2   | 1-1/4"        | 3"     | .498           |
| ATI107B3    | 1-1/4"        | 3-1/2" | .498           |
| ATI107B-4   | 1"            | 5-1/2" | .498           |
| ATI107B-5   | 1-1/4"        | 5-1/2" | .498           |
| ATI107B-6   | 1"            | 7-1/2" | .498           |
| ATI107B-7   | 1-1/4"        | 7-1/2" | .498           |



### PEENING TOOL WITH ALUMINUM, BRASS, OR NYLON INSERT

This peening tool is designed for the straightening of aluminum sheet after forming.

| Part Number | Head Material | Face Diameter | Length | Shank Diameter |
|-------------|---------------|---------------|--------|----------------|
| ATI107A-2D  | Aluminum      | 1"            | 3-1/8" | .401           |
| ATI107A2DB  | Brass         | 1"            | 3-1/8" | .401           |
| ATI107A2DN  | Nylon         | 1"            | 3-1/8" | .401           |
| ATI107B-2D  | Aluminum      | 1"            | 3-1/8" | .498           |



### FLUSH RIVET SET WITH RUBBER GUARD

A rubber guard added to this flush rivet set helps prevent slippage and damage to skin surface.

| Part Number | Face Diameter | Length | Shank Diameter |
|-------------|---------------|--------|----------------|
| ATI110CA    | 3/4"          | 2-1/2" | .401           |
| ATI110CB    | 1"            | 2-1/2" | .401           |
| ATI110CC    | 1-1/4"        | 2-1/2" | .401           |



### FLUSH RIVET SET, MUSHROOM TYPE

This convex crowned, flush rivet set is particularly adapted to riveting thin sections without danger of denting or dishing skin surface.

| Part Number | Face Diameter | Length | Shank Diameter |
|-------------|---------------|--------|----------------|
| ATI112A     | 1-7/8"        | 3"     | .401           |
| ATI112B     | 1-7/8"        | 3"     | .498           |

## RIVETING TOOLS AND ACCESSORIES

### FLUSH RIVET SETS

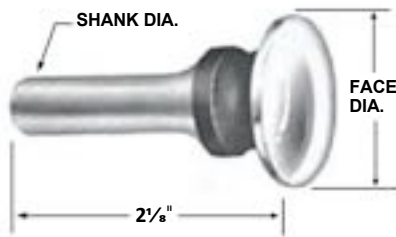


#### FLUSH RIVET SET, EXTRA SHORT

The unique design of this extra-short flush set enables it to withstand extremely rugged use. A mirror-polished, crown-working surface prevents damage to the skin.

| Part Number   | Face Diameter | Length   | Shank Diameter |
|---------------|---------------|----------|----------------|
| AT1113A-1     | 3/4"          | 1-11/16" | .401           |
| AT1113A-2     | 1"            | 1-13/16" | .401           |
| AT1113A-3     | 1-1/4"        | 1-13/16" | .401           |
| *AT1113A2SPCR | 1"            | 1-13/16" | .401           |

\*Increased crown height



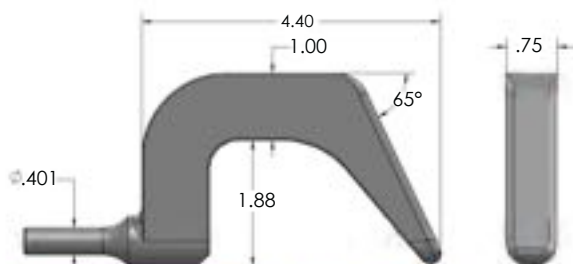
#### FLUSH RIVET SET, STUBBY TYPE

| Part Number | Face Diameter | Length | Shank Diameter |
|-------------|---------------|--------|----------------|
| AT1119A-1B  | 3/4"          | 2-1/8" | .401           |
| AT1119A-2B  | 1"            | 2-1/8" | .401           |
| AT1119A-3B  | 1-1/8"        | 2-1/8" | .401           |
| AT1119A4B   | 1-1/4"        | 2-1/8" | .401           |
| AT1119B-1B  | 3/4"          | 2-1/8" | .498           |
| AT1119B-2B  | 1"            | 2-1/8" | .498           |
| AT1119B-3B  | 1-1/8"        | 2-1/8" | .498           |
| AT1119B-4B  | 1-1/4"        | 2-1/8" | .498           |



#### FLUSH SET FOR LIMITED ACCESS ST1111BP401K

Heat-treated and polished to a mirror finish. The perfect tool for those hard-to-reach riveting applications



#### FLUSH RIVET SET, OFFSET

| Part Number | Face Diameter | Length | Shank Diameter |
|-------------|---------------|--------|----------------|
| AT1121A-3   | 1-1/4"        | 3-1/2" | .401           |
| AT1121A-4   | 1"            | 5-1/2" | .401           |
| AT1121A-5   | 1-1/4"        | 5-1/2" | .401           |
| AT1121A-6   | 1"            | 7-1/2" | .401           |
| AT1121A-7   | 1-1/4"        | 7-1/2" | .401           |
| AT1121B-3   | 1-1/4"        | 3-1/2" | .498           |
| AT1121B-4   | 1"            | 5-1/2" | .498           |
| AT1121B-5   | 1-1/4"        | 5-1/2" | .498           |
| AT1121B-6   | 1"            | 7-1/2" | .498           |
| AT1121B-7   | 1-1/4"        | 7-1/2" | .498           |

#### FLUSH RIVET SET, POLYURETHANE RIM

Manufactured from H-13 material tool steel, this flush set is magnetic particle tested after heat treat, and shot-peened for stress relief prior to polish. The machine crown and polyurethane rim make this a preferred set ideal for skin work.

| Part Number  | Face Diameter                  | Length | Shank Diameter | Reference       |
|--------------|--------------------------------|--------|----------------|-----------------|
| ATIST1111BK1 | 3/4"                           | 2-1/2" | .401           | ST1111B-V401K-1 |
| ATIST1111BK2 | 1"                             | 2-1/2" | .401           | ST1111B-V401K-2 |
| ATIST1111BK3 | 1-1/4"                         | 2-1/2" | .401           | ST1111B-V401K-3 |
| ST1111BV48E1 | 3/4"                           | 2-1/2" | .498           | ST1111B-V498E-1 |
| ST1111BV48E2 | 1"                             | 2-1/2" | .498           | ST1111B-V498E-2 |
| ST1111BV48E3 | 1-1/4"                         | 2-1/2" | .498           | ST1111B-V498E-3 |
| ST1111BVR1   | Rim, Replacement, Polyurethane |        |                | ST1111B-VR-1    |
| ST1111BVR2   | Rim, Replacement, Polyurethane |        |                | ST1111B-VR-2    |
| ST1111BVR3   | Rim, Replacement, Polyurethane |        |                | ST1111B-VR-3    |





### STRAIGHT DRIVE SETS FOR HUCK® LOCKBOLTS

Developed to drive Huck® lockbolt collars. The ATI118M Series tools are precision machined with close tolerance cavities.

| Part Number  | Lockbolt Size | Length | Shank Diameter |
|--------------|---------------|--------|----------------|
| ATI118M3-L5  | 5/32"         | 3-1/2" | .401           |
| ATI118M3-L6  | 3/16"         | 3-1/2" | .401           |
| ATI118M3L8   | 1/4"          | 3-1/2" | .401           |
| ATI118M-5-L5 | 5/32"         | 5-1/2" | .401           |



### OFFSET DRIVE SETS FOR HUCK® LOCKBOLTS

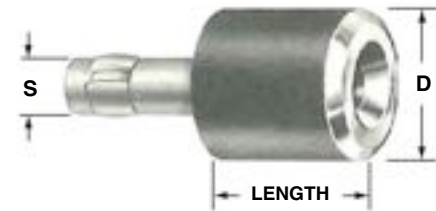
Developed to drive Huck® lockbolt collars. The ATI118D Series tools are precision machined with close tolerance cavities and 10° offset.

| Part Number | Lockbolt Size | Length | Shank Diameter |
|-------------|---------------|--------|----------------|
| ATI118D3-L4 | 1/8"          | 3-1/2" | .401           |
| ATI118D3-L5 | 5/32"         | 3-1/2" | .401           |
| ATI118D3-L6 | 3/16"         | 3-1/2" | .401           |
| ATI118D3L8  | 1/4"          | 3-1/2" | .401           |

### SQUEEZER SET FOR HUCK® LOCKBOLTS

Held to an extremely close tolerance, with a mirror polished cavity, this squeezer set is ideal for fast, accurate swaging of Huck® lockbolt collars.

| Part Number | Lockbolt Size | Length | "D"   | Shank Diameter |
|-------------|---------------|--------|-------|----------------|
| ATI118AL5   | 5/32"         | 1/2"   | 1/2"  | .187           |
| ATI118AL6   | 3/16"         | 5/8"   | 9/16" | .187           |
| ATI118AL8   | 1/4"          | 1"     | 5/8"  | .187           |



### STRAIGHT DRIVE SETS FOR HI-SHEAR® RIVETS, .401 SHANK

Engineered to drive Hi-Shear® rivet collars in open areas.

| Rivet Size | Length | Part Number  | Body Diameter |
|------------|--------|--------------|---------------|
| 1/8"       | 3-1/2" | ATI130A318   | 1/2"          |
|            | 5-1/2" | ATI130A51/8  | 1/2"          |
|            | 7-1/2" | ATI130A71/8  | 1/2"          |
| 5/32"      | 3-1/2" | ATI130A3532  | 1/2"          |
|            | 5-1/2" | ATI130A55/32 | 1/2"          |
|            | 7-1/2" | ATI130A75/32 | 1/2"          |
| 3/16"      | 3-1/2" | ATI130A3316  | 1/2"          |
|            | 5-1/2" | ATI130A53/16 | 1/2"          |
|            | 7-1/2" | ATI130A73/16 | 1/2"          |
| 1/4"       | 3-1/2" | ATI130A3-1/4 | 5/8"          |
|            | 5-1/2" | ATI130A51/4  | 5/8"          |



### OFFSET DRIVE SETS FOR HI-SHEAR® RIVETS, .401 SHANK

Engineered to drive Hi-Shear® rivet collars in open areas and when offset riveting is required.

| Rivet Size | Length | Part Number | Body Diameter |
|------------|--------|-------------|---------------|
| 1/8"       | 3-1/2" | ATI131A318  | 1/2"          |
|            | 5-1/2" | ATI131A518  | 1/2"          |
| 5/32"      | 3-1/2" | ATI131A3532 | 1/2"          |
|            | 5-1/2" | ATI131A5532 | 1/2"          |
| 3/16"      | 3-1/2" | ATI131A3316 | 1/2"          |
|            | 5-1/2" | ATI131A5316 | 1/2"          |
| 1/4"       | 3-1/2" | ATI131A314  | 5/8"          |
|            | 5-1/2" | ATI131A514  | 5/8"          |



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.

**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## RIVETING TOOLS AND ACCESSORIES

### CHISELS AND KNOCK-OUT PUNCHES



ATI1206-6



ATI2165-2

#### FLAT CHISEL, GUN TYPE

| Part Number | Length | Shank Diameter |
|-------------|--------|----------------|
| ATI1206-6   | 6-3/4" | .401           |
| ATI1206-8   | 8"     | .401           |
| ATI1206-10  | 10"    | .401           |
| ATI1206-12  | 12"    | .401           |

#### GUN TYPE CHISEL FOR HUCK® LOCKBOLTS

| Part Number | Lockbolt Size | Length | Shank Diameter |
|-------------|---------------|--------|----------------|
| ATI2165-2   | 5/32"         | 5-1/2" | .401           |
| ATI2165-3   | 3/16"         | 5-1/2" | .401           |
| ATI2165-4   | 1/4"          | 5-1/2" | .401           |
| ATI2165-5   | 5/16"         | 5-1/2" | .401           |
| ATI2165-6   | 3/8"          | 5-1/2" | .401           |



Hi-Shear® Knockout Punch



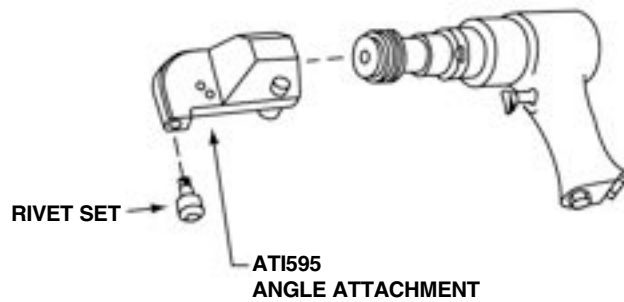
Standard Knockout Punch

#### KNOCK-OUT PUNCH, HI-SHEAR®

| Part Number  | Rivet Size | Length | Shank Diameter |
|--------------|------------|--------|----------------|
| ATI140A-3    | 3/32"      | 3-1/2" | .401           |
| ATI140A341/4 | 3/32"      | 4-1/4" | .401           |
| ATI140A-3MM  | 3MM        | 3-1/2" | .401           |
| ATI140A-4    | 1/8"       | 3-1/2" | .401           |
| ATI140A441/4 | 1/8"       | 4-1/4" | .401           |
| ATI140A-5    | 5/32"      | 3-1/2" | .401           |
| ATI140A541/4 | 5/32"      | 4-1/4" | .401           |
| ATI140A-6    | 3/16"      | 3-1/2" | .401           |
| ATI140A641/4 | 3/16"      | 4-1/4" | .401           |
| ATI140A-5MM  | 5MM        | 3-1/2" | .401           |
| ATI140A-6MM  | 6MM        | 3-1/2" | .401           |
| ATI140A-8    | 1/4"       | 3-1/2" | .401           |
| ATI140A841/4 | 1/4"       | 4-1/4" | .401           |
| ATI140A-10   | 5/16"      | 3-1/2" | .401           |
| ATI140A-12   | 3/8"       | 4-1/2" | .401           |
| ATI140B-6    | 3/16"      | 3-1/2" | .498           |
| ATI140B-8    | 1/4"       | 3-1/2" | .498           |
| ATI140B-10   | 5/16"      | 3-1/2" | .498           |
| ATI140B-12   | 3/8"       | 4-1/2" | .498           |

#### KNOCK-OUT PUNCH, STANDARD

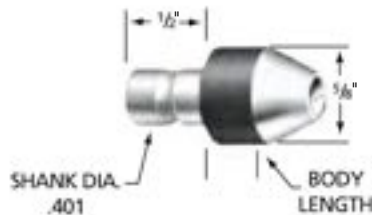
| Part Number  | Rivet Size | Length | Shank Diameter |
|--------------|------------|--------|----------------|
| ATI141A33/32 | 3/32"      | 3-1/2" | .401           |
| ATI141A31/8  | 1/8"       | 3-1/2" | .401           |
| ATI141A35/32 | 5/32"      | 3-1/2" | .401           |
| ATI141A33/16 | 3/16"      | 3-1/2" | .401           |
| ATI141A37/32 | 7/32"      | 3-1/2" | .401           |
| ATI141A31/4  | 1/4"       | 3-1/2" | .401           |
| ATI141A35/16 | 5/16"      | 3-1/2" | .401           |
| ATI141A33/8  | 3/8"       | 3-1/2" | .401           |
| ATI141B33/16 | 3/16"      | 3-1/2" | .498           |
| ATI141B31/4  | 1/4"       | 3-1/2" | .498           |
| ATI141B35/16 | 5/16"      | 3-1/2" | .498           |
| ATI141B33/8  | 3/8"       | 3-1/2" | .498           |



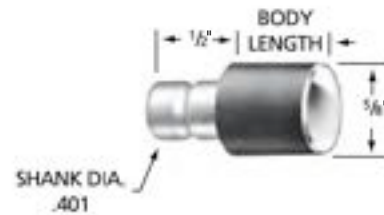
| Part Number | Shank Diameter                                                              | Thread Pitch (TPI) | For Use With:                 |
|-------------|-----------------------------------------------------------------------------|--------------------|-------------------------------|
| ATI595B     | .401                                                                        | 7                  | Ingersoll-Rand, Jiffy, Sioux  |
| ATI595C     | .401                                                                        | 8                  | ATI, Cleco, Chicago Pneumatic |
| ATI595BK    | Angle attachment set includes ATI595B and 4 rivet sets in <b>blue</b> below |                    |                               |
| ATI595CK    | Angle attachment set includes ATI595C and 4 rivet sets in <b>blue</b> below |                    |                               |



### RIVET SETS, CUPPED-TYPE ATI1757 SERIES



### RIVET SETS, FLUSH-TYPE ATI1758 SERIES



| Part Number  | Rivet Size | Rivet Type | Body Length | Shank Diameter |
|--------------|------------|------------|-------------|----------------|
| ATI1757AP332 | 3/32"      | AN470      | 1/4"        | .401           |
| ATI1757AP1/8 | 1/8"       | AN470      | 1/4"        | .401           |
| ATI1757AP532 | 5/32"      | AN470      | 1/4"        | .401           |
| ATI1757AP316 | 3/16"      | AN470      | 1/4"        | .401           |
| ATI1758AP    | FLUSH      | FLUSH      | 1/4"        | .401           |
| ATI1758AR    | FLUSH      | FLUSH      | 3/8"        | .401           |
| ATI1758AS    | FLUSH      | FLUSH      | 1/2"        | .401           |

Included in ATI595BK and ATI595CK Sets

## GOOSENECK-TYPE ADAPTER AND EXTENSION

### ATI134GA

Originally designed for interchangeable inserts for Hi-Shear® collars, this unique adapter also accommodates Jiffy sets, ATI1757 & ATI1758 Series rivet sets, and standard .401 shank diameter rivet sets.



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## RIVETING TOOLS AND ACCESSORIES

### RIVET HAMMERS



#### RIVET HAMMERS

- Aluminum offset pistol grip
- Teasing trigger for precise control
- Includes air flow valve, beehive spring, and quick-release retainer spring

| Part Number | Aluminum Rivet Capacity | Steel Rivet Capacity | BPM  | Length  | Weight    | Shank Diameter |
|-------------|-------------------------|----------------------|------|---------|-----------|----------------|
| ATIU-2X     | 5/32"                   | 3/32"                | 2580 | 6-1/2"  | 2.25 lbs. | .401           |
| ATIATC3X    | 3/16"                   | 5/32"                | 2160 | 7-1/4"  | 2.25 lbs. | .401           |
| ATIATC4X    | 1/4"                    | 3/16"                | 1740 | 8-1/4"  | 2.75 lbs. | .401           |
| ATIU5X      | 9/32"                   | 3/16"                | 1560 | 8-1/4"  | 4.75 lbs. | .498           |
| ATIU-7X     | 3/8"                    | 5/16"                | 900  | 11-1/4" | 6.00 lbs. | .498           |
| ATIATU-9X   | 5/16"                   | 1/4"                 | 1140 | 9-1/4"  | 5.12 lbs. | .498           |



#### JIFFY TYPE RIVET HAMMERS

Use JAT100A and JAT101A Series Jiffy type rivet sets

| Part Number | Aluminum Rivet Capacity | Steel Rivet Capacity | BPM  | Length | Weight    | Shank Diameter |
|-------------|-------------------------|----------------------|------|--------|-----------|----------------|
| ATI17-100B  | 5/32"                   | 1/8"                 | 2850 | 3-3/4" | 2.25 lbs. | .401           |
| ATI17-200B  | 3/16"                   | 5/32"                | 2700 | 4-1/4" | 2.62 lbs. | .401           |



### RETAINER SPRINGS

#### ATI114C-3 QUICK RELEASE

- Fast thumb release to quickly change rivet sets
- Works with any 3x or 4x rivet hammer
- Accommodates 1/2" or 9/16" body diameter rivet sets



#### ATI115 BEEHIVE TYPE

Fixed type retainer spring for maximum safety.

|         |                                   |
|---------|-----------------------------------|
| ATI115A | For 1/2" body diameter rivet sets |
| ATI115B | For 5/8" body diameter rivet sets |



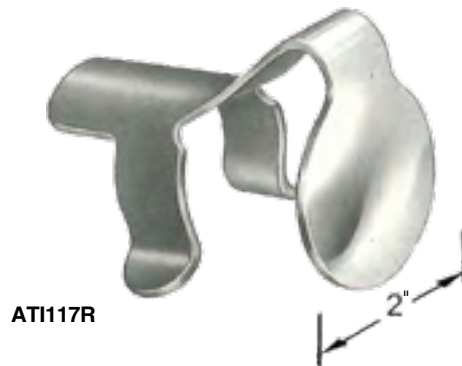


## RIVETING TOOLS AND ACCESSORIES

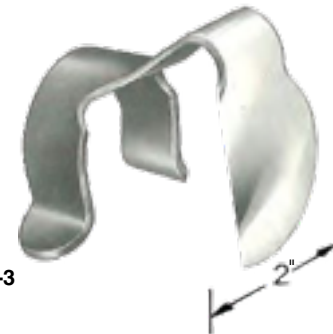
### NO-MAR FLUSH RIVET SET SHIELDS

The two types of rivet shields illustrated have been designed to provide additional skin protection when flush riveting. Both units are manufactured with heat-treated and polished faces.

| Part Number | Shield Diameter              |
|-------------|------------------------------|
| ATI117R     | 2"                           |
| ATI117RB-3  | 2" with 1/2" cut-away relief |



ATI117R



ATI117RB-3

### RIVET SET EXTENSION ADAPTER

.401 Shank; .401 Recess

| Part Number | OAL |
|-------------|-----|
| ATI124A-4   | 4"  |
| ATI124A-6   | 6"  |
| ATI124A-12  | 12" |



ATI124A-6

### SHANK ADAPTERS



#### 1111BV41V498

This sleeve nests in the barrel of the rivet hammer, easily converting .498 bore diameter to .401.



ATI124B-3

#### ATI124B-3

Converts .401 shank rivet sets to .498. Use 5X, 9X, and 7X guns with .401 tools.

### GRIP GAUGES

#### ATI269C3 & ATI2612

Simple, self-explanatory gauges determine material thickness and proper rivet grip length.



ATI269C3



ATI2612



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## RIVETING TOOLS AND ACCESSORIES

### SHEET-METAL TOOL KITS AND RIVET CUTTERS



These kits provide the essentials for straight and offset riveting. Ideal for structural and sheet-metal technicians, home builders, and students. Plastic zipped carrying case for tool control and FOD prevention.

|                     |                                |
|---------------------|--------------------------------|
| <b>ATI590RGK3X</b>  | <b>WITH ATIATC3X RIVET GUN</b> |
| <b>ATI590RGK-4X</b> | <b>WITH ATIATC4X RIVET GUN</b> |

Kit includes:

|   |              |   |              |
|---|--------------|---|--------------|
| 1 | RIVET HAMMER | 1 | ATI101AF-3A  |
| 1 | ATI100A33/32 | 1 | ATI107A-2    |
| 1 | ATI100A3-1/8 | 1 | ATI110CB     |
| 1 | ATI100A35/32 | 1 | ATI114C-3    |
| 1 | ATI100A33/16 | 1 | ATI638       |
| 1 | ATI101A33/32 | 1 | ATI647       |
| 1 | ATI100A3-1/8 | 1 | ATI670       |
| 1 | ATI101A35/32 | 1 | ATI681       |
| 1 | ATI101A3316  | 1 | A-1142 (oil) |



**ATI590RGK4X**  
Clear zipper case included

|                     |                                 |
|---------------------|---------------------------------|
| <b>ATI590SMKSP1</b> | <b>WITH SIOUX 270 RIVET GUN</b> |
| <b>ATI590SMKSP6</b> | <b>WITH ATIATC4X RIVET GUN</b>  |

- Four straight AN470 universal rivet sets (3/32", 1/8", 5/32", 3/16")
- One flush rivet set
- Four integral pilot countersinks (#10, #21, #30, #40) pilot sizes
- Microstop-ball bearing
- Hand rivet cutter
- Rivet hammer (see chart)
- Four spring tension u-clamps
- 12 Each (3/32", 1/8", 5/32", 3/16") temporary fasteners
- Sioux 1410 drill
- Jobber drills- 3/32", 1/8", 5/32", 3/16", #40, #30, #21, #10
- Drill stops- #10, #21, #30, #40
- Sheet holder pliers
- Bucking Bar
- Retainer spring-quick release



**ATI590SMKSP1**



#### ATI501R

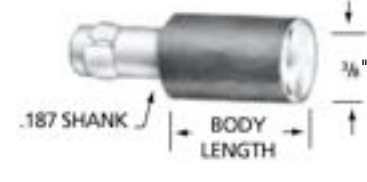
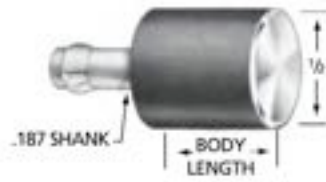
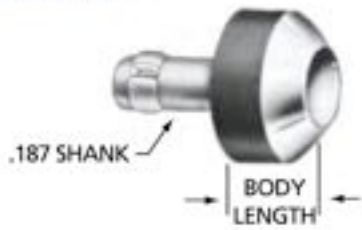
This rivet cutter is designed to quickly and easily shear aluminum rivets. It is adjustable for 1/4" to 3/4" long rivets in 1/16" increments, for rivet sizes 3/32", 1/8", 5/32", 3/16", 7/32", and 1/4".



#### ATI501S

This rivet cutter, with 13" tubular handles for additional leverage, was developed for the U.S. Government.





| Rivet Size | Rivet Type | Body Diameter | Shank Diameter | 1/8" BODY LENGTH | 1/4" BODY LENGTH | 3/8" BODY LENGTH | 1/2" BODY LENGTH | 5/8" BODY LENGTH | 3/4" BODY LENGTH |
|------------|------------|---------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 3/32"      | AN470      | 3/8"          | .187           | ATI108AN3/32     | ATI108AP3/32     | ATI108AR3/32     | ATI108AS3/32     | ATI108AT3/32     | ATI108AW3/32     |
| 1/8"       | AN470      | 3/8"          | .187           | ATI108AN1/8      | ATI108AP1/8      | ATI108AR1/8      | ATI108AS1/8      | ATI108AT1/8      | ATI108AW1/8      |
| 5/32"      | AN470      | 1/2"          | .187           | ATI108AN5/32     | ATI108AP5/32     | ATI108AR5/32     | ATI108AS5/32     | ATI108AT5/32     | ATI108AW5/32     |
| 3/16"      | AN470      | 1/2"          | .187           | ATI108AN3/16     | ATI108AP3/16     | ATI108AR3/16     | ATI108AS3/16     | ATI108AT3/16     | ATI108AW3/16     |
| 1/4"       | AN470      | 5/8"          | .187           | ATI108AN1/4      | ATI108AP1/4      | ATI108AR1/4      | ATI108AS1/4      | ATI108AT1/4      | ATI108AW1/4      |
| 3/32"      | AN470      | 3/8"          | .250           | ATI108BN3/32     | ATI108BP3/32     | ATI108BR3/32     | ATI108BS3/32     | ATI108BT3/32     | ATI108BW3/32     |
| 1/8"       | AN470      | 3/8"          | .250           | ATI108BN1/8      | ATI108BP1/8      | ATI108BR1/8      | ATI108BS1/8      | ATI108BT1/8      | ATI108BW1/8      |
| 5/32"      | AN470      | 1/2"          | .250           | ATI108BN5/32     | ATI108BP5/32     | ATI108BR5/32     | ATI108BS5/32     | ATI108BT5/32     | ATI108BW5/32     |
| 3/16"      | AN470      | 1/2"          | .250           | ATI108BN3/16     | ATI108BP3/16     | ATI108BR3/16     | ATI108BS3/16     | ATI108BT3/16     | ATI108BW3/16     |
| 1/4"       | AN470      | 5/8"          | .250           | X                | ATI108BP1/4      | ATI108BR1/4      | ATI108BS1/4      | ATI108BT1/4      | X                |
| FLUSH      | FLUSH      | 1/2"          | .187           | ATI109AN         | ATI109AP         | ATI109AR         | ATI109AS         | ATI109AT         | ATI109AW         |
| FLUSH      | FLUSH      | 3/8"          | .187           | ATI109EN         | ATI109EP         | ATI109ER         | ATI109ES         | ATI109ET         | ATI109EW         |
| FLUSH      | FLUSH      | 1/2"          | .250           | ATI109BN         | ATI109BP         | ATI109BR         | ATI109BS         | ATI109BT         | ATI109BW         |

Included in 33 Piece Kit

Included in 16 Piece Kit

## RIVET SQUEEZER SETS FOR MODIFIED UNIVERSAL HEAD RIVETS, BACR15FT

| Rivet Size | Rivet Type | Body Diameter | Shank Diameter | 1/8" BODY LENGTH | 1/4" BODY LENGTH | 3/8" BODY LENGTH | 1/2" BODY LENGTH | 5/8" BODY LENGTH | 3/4" BODY LENGTH |
|------------|------------|---------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 5/32"      | BACR15FT   | 1/2"          | .187           | ATI108AN532F     | ATI108AP532F     | ATI108AR532F     | ATI108AS532F     | ATI108AT532F     | ATI108AW532F     |
| 3/16"      | BACR15FT   | 1/2"          | .187           | ATI108AN316F     | ATI108AP316F     | ATI108AR316F     | ATI108AS316F     | ATI108AT316F     | ATI108AW316F     |
| 1/4"       | BACR15FT   | 5/8"          | .187           | ATI108AN1/4F     | ATI108AP1/4F     | ATI108AR1/4F     | ATI108AS1/4F     | ATI108AT1/4F     | X                |

## RIVET SQUEEZER KITS

### ATI108A33PC

- 33 Piece set for installing universal (AN470) and flush (AN426) rivets
- 3/16" Diameter shank with lock ring
- Universal (AN470) cup sizes 3/32", 1/8", 5/32", 3/16" and 1/4"
- Body lengths of 1/8", 1/4", 3/8", 1/2" and 5/8"
- Suitable for either hand or pneumatic squeezers
- See chart above for squeezer sets included

### ATI108A16PC

- 16 Piece set for installing universal (AN470) and flush (AN426) rivets
- 3/16" Diameter shank with lock ring
- Universal (AN470) cup sizes 3/32", 1/8", 5/32", 3/16" and 1/4"
- Body lengths of 1/8", 1/4", 3/8", 1/2" and 5/8"
- Suitable for either hand or pneumatic squeezers
- See chart above for squeezer sets included



ATI108A33PC



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## RIVETING TOOLS AND ACCESSORIES

### HAND RIVET SQUEEZERS

#### ATI501A - ALLIGATOR-TYPE HAND RIVET SQUEEZER

- 3/32" - 5/32" rivet capacity
- 2 -1/2" reach
- 1-1/8" gap
- 18" handles for ample leverage
- Accepts 3/16" diameter shank rivet squeezer sets and cold dimple dies



ATI501A

#### C-TYPE SWIVEL YOKE HAND RIVET SQUEEZERS

- 3/32" - 5/32" rivet capacity
- 3/8" stroke
- 5/8" ram adjustment to eliminate shims
- 360 degree swivel yoke can be locked in any position
- Accepts 3/16" diameter shank rivet squeezer sets and cold dimple dies

| Part Number | Reach  | Closed Gap |
|-------------|--------|------------|
| ATI502AHD   | 1-1/2" | 1-5/8"     |
| ATI502AHE   | 3"     | 1-1/2"     |
| ATI502D     | 1-1/2" | YOKE ONLY  |
| ATI502E     | 3"     | YOKE ONLY  |



ATI502AHE

18"

### 360° SWIVEL YOKE ATTACHMENTS

The ATI502 Swivel Yokes are furnished with attachment plates to fit the CP214 or equivalent air motor. This unit has a built-in ram adjustment which eliminates the need for washers to adjust the length of the squeezer and will automatically lock in the required position. The yoke can also be locked in any position in the full 360° swing. Uses standard squeezer sets with 3/16" shank diameter.

| Part Number | Yoke Depth |
|-------------|------------|
| ATI502YA    | 1-1/2"     |
| ATI502YB    | 3"         |



\*Does not include power unit

### PNEUMATIC RIVET SQUEEZERS

#### PNEUMATIC RIVET SQUEEZER, ALLIGATOR AND C-TYPE

Use 3/16" shank squeezer sets, refer to ATI108 & ATI109 Series

| Part Number | Yoke Style | Cylinder Type | Yoke Reach | Aluminum Rivet Capacity | Steel Rivet Capacity | Overall Length | Weight With Jaws |
|-------------|------------|---------------|------------|-------------------------|----------------------|----------------|------------------|
| ATI114A     | ALLIGATOR  | SINGLE        | 1-1/2"     | 1/8"                    | 3/32"                | 9-1/4"         | 4 lbs.           |
| ATI114A214  | ALLIGATOR  | SINGLE        | 2-1/4"     | 3/32"                   | 3/32"                | 10-1/8"        | 4-1/2 lbs.       |
| ATI114A-3   | ALLIGATOR  | SINGLE        | 3"         | 3/32"                   | 1/16"                | 10-7/8"        | 5 lbs.           |
| ATI114TA    | ALLIGATOR  | TANDEM        | 1-1/2"     | 3/16"                   | 5/32"                | 12"            | 5-1/2 lbs.       |
| ATI114TA214 | ALLIGATOR  | TANDEM        | 2-1/4"     | 3/16"                   | 1/8"                 | 13"            | 6 lbs.           |
| ATI114TA-3  | ALLIGATOR  | TANDEM        | 3"         | 5/32"                   | 3/32"                | 14"            | 6-1/4 lbs.       |



ATI114A

| Part Number | Yoke Style | Cylinder Type | Yoke Reach | Aluminum Rivet Capacity | Steel Rivet Capacity | Overall Length | Weight With Jaws |
|-------------|------------|---------------|------------|-------------------------|----------------------|----------------|------------------|
| ATI114C     | C-TYPE     | SINGLE        | 1-1/2"     | 1/8"                    | 3/32"                | 10-5/16"       | 4-1/2 lbs.       |
| ATI114TC    | C-TYPE     | TANDEM        | 1-1/2"     | 3/16"                   | 5/32"                | 14"            | 5-1/2 lbs.       |

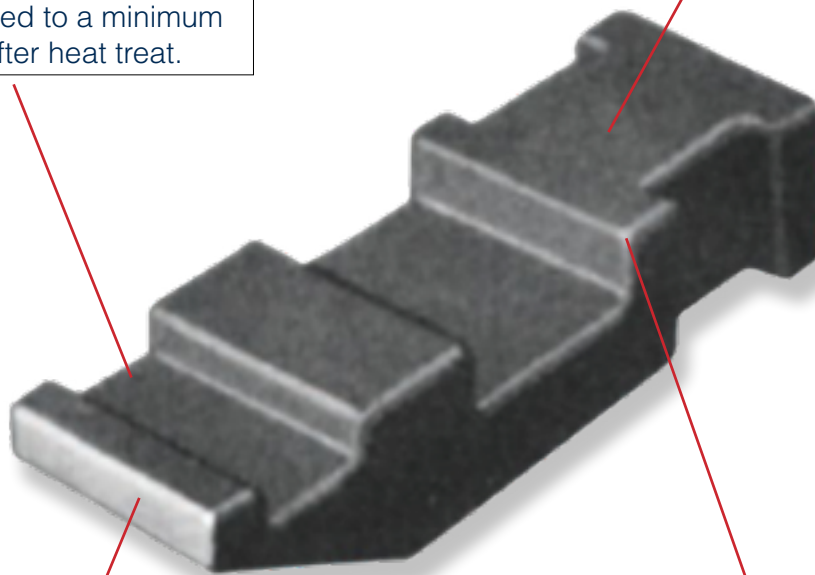


ATI114C

## ATI BUCKING BARS ARE THE BEST VALUE AVAILABLE. HERE'S WHY:

All Bucking surfaces are flat and polished to a minimum 63 finish after heat treat.

ATI offers the largest selection of different configured bars available.



All Bucking surfaces are dipped in clear plastic to prevent damage during shipment and storage.

All sharp corners and edges are radiused 1/32"-1/16" to prevent skin damage.

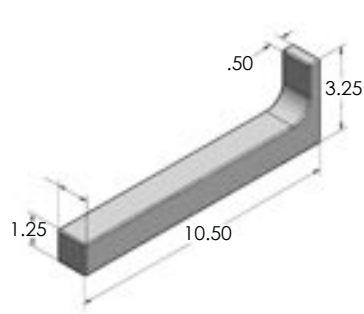
## BUCKING BARS

### BUCKING BARS, TUNGSTEN

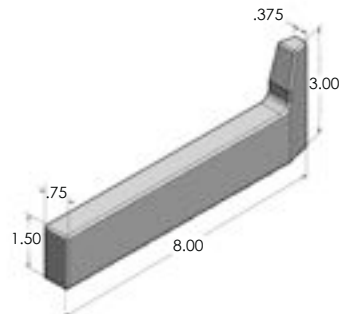


- High density tungsten absorbs bucking impact
- Reduces vibration and minimizes bucking bar movement when riveting
- Sharp edges are radiused up to 1/16" to prevent skin damage
- Smaller configured design provides enhanced bucking in tight areas

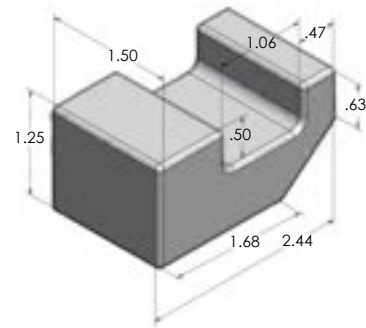
Custom designed tungsten bars may be available upon special request.



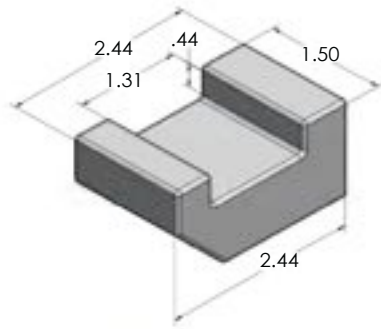
ATI613T  
9.0 LBS



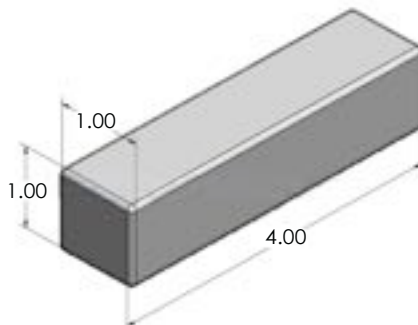
ATI614T  
8.0 LBS



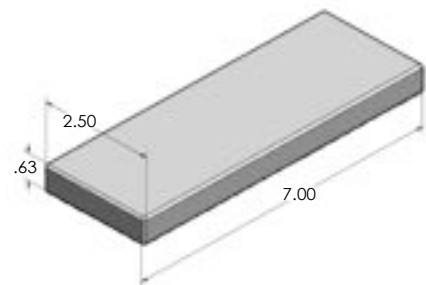
ATI634T  
1.6 LBS



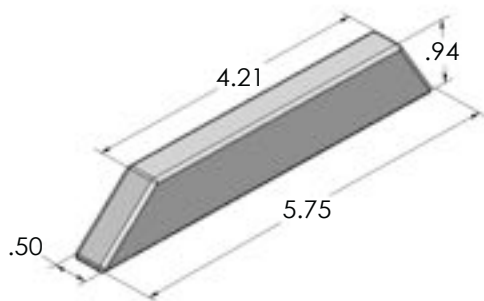
ATI634TX  
1.4 LBS



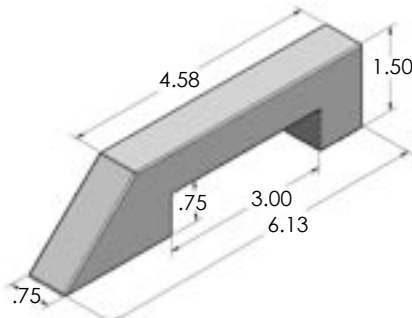
ATI729-3T  
1.55 LBS



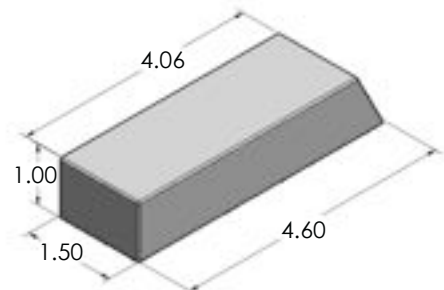
ATI729-13T  
1.2 LBS



ATI732T  
2.11 LBS



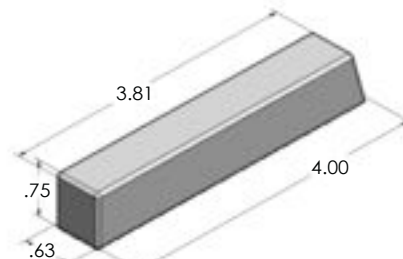
ATI760B-2T  
2.85 LBS



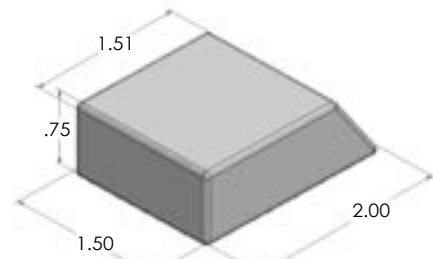
ATI760B-10T  
5.5 LBS



ATI760B-10TX  
1.92 LBS

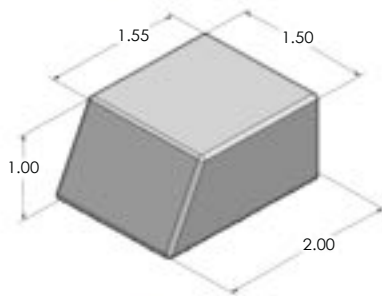


ATI760B10TXX  
1.25 LBS

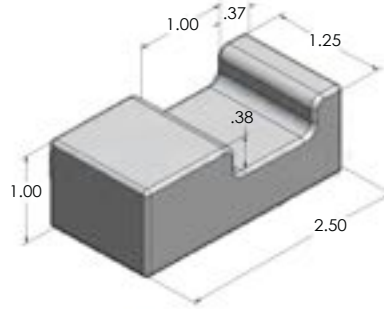


ATI764T  
1.3 LBS

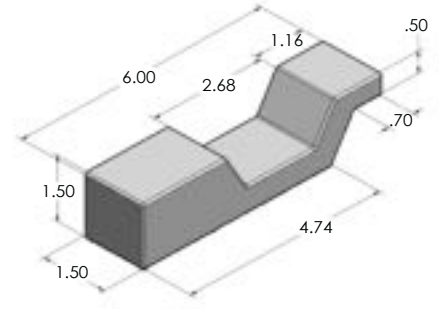




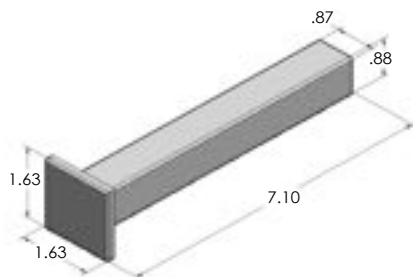
»»» ATI765T  
1.75 LBS



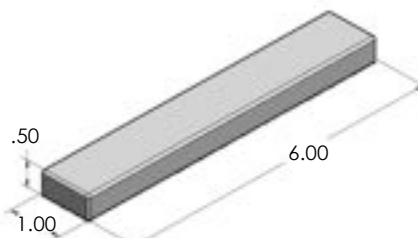
»»» ATI766T  
1.7 LBS



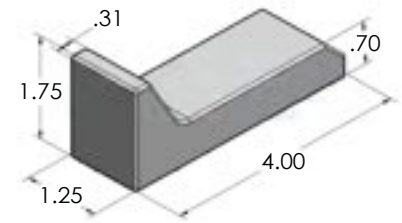
»»» ATIETBB08  
6.0 LBS



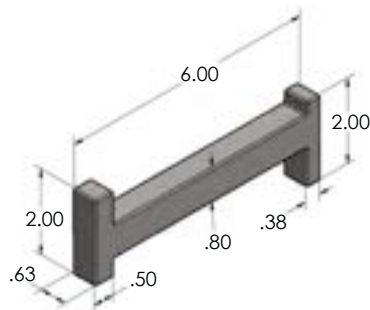
»»» ATIETBB10  
3.85 LBS



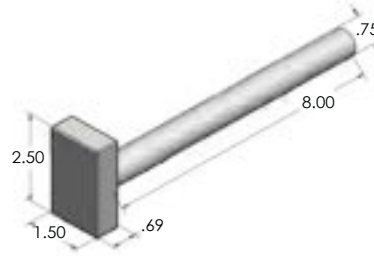
»»» ATIETBB20  
1.95 LBS



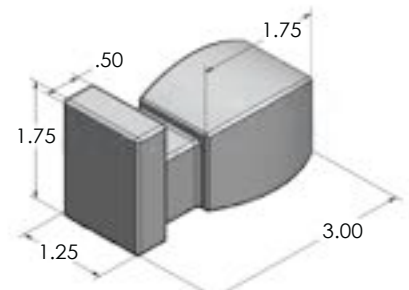
»»» ATIETBB22  
2.90 LBS



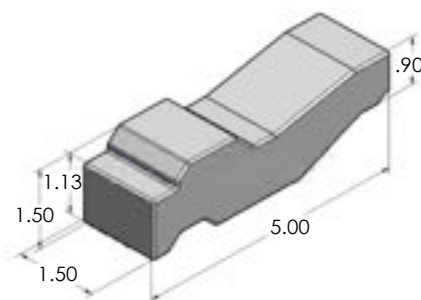
»»» ATIETBB23  
2.40 LBS



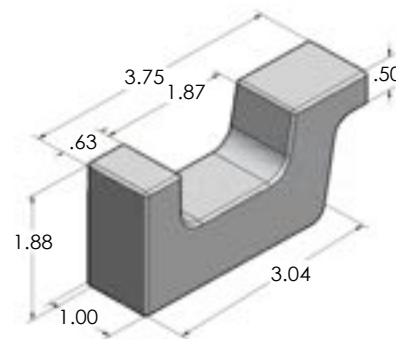
»»» ATIETBB24  
4.05 LBS



»»» ATIETBB25  
3.15 LBS



»»» ATIETBB37  
5.75 LBS



»»» ATIETBB40  
3.05 LBS

## BUCKING BARS

### BUCKING BARS, STANDARD



- All bucking surfaces are polished to a minimum 63 finish after heat treat
- All sharp corners and edges are radiused 1/32"-1/16" to prevent skin damage
- All bucking surfaces are dipped in clear plastic to prevent damage during shipment and storage



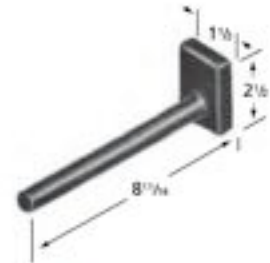
ATI601  
6.00 LBS



ATI602  
1.25 LBS



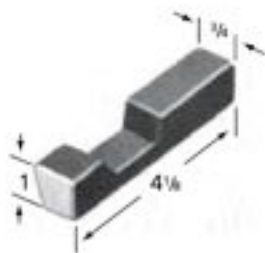
ATI603  
6.50 LBS



ATI604  
1.75 LBS



ATI605  
1.50 LBS



ATI606  
0.75 LBS



ATI607  
2.50 LBS



ATI608  
1.25 LBS



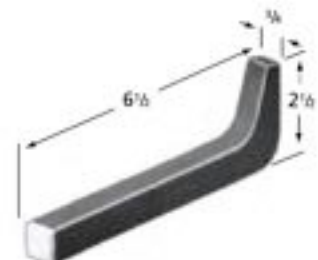
ATI609  
0.50 LBS



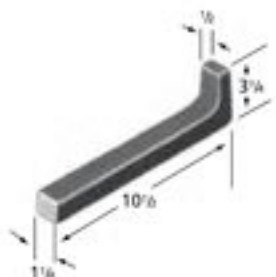
ATI610  
0.75 LBS



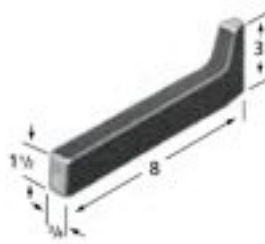
ATI611  
1.00 LBS



ATI612  
1.25 LBS



ATI613  
5.50 LBS



ATI614  
2.75 LBS



ATI616  
1.00 LBS

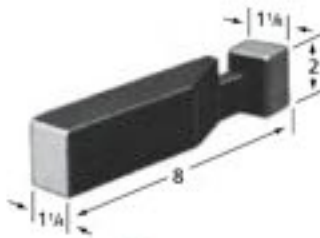


ATI618  
2.25 LBS





ATI619  
1.25 LBS



ATI620  
4.50 LBS



ATI621  
7.00 LBS



ATI622  
2.50 LBS



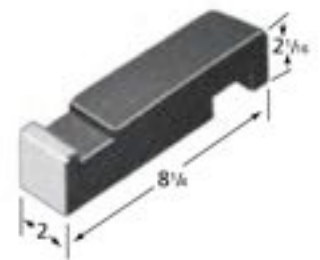
ATI624  
1.00 LBS



ATI625  
5.25 LBS



ATI626  
6.00 LBS



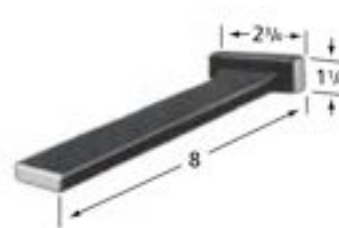
ATI627  
7.75 LBS



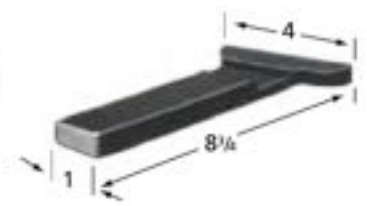
ATI628  
1.50 LBS



ATI629  
1.00 LBS



ATI630  
1.50 LBS



ATI632  
4.50 LBS



ATI633  
1.50 LBS



ATI634  
1.00 LBS



ATI636  
1.00 LBS



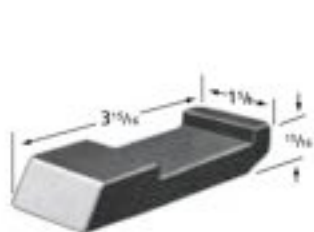
ATI637  
1.75 LBS



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

# BUCKING BARS

## BUCKING BARS, STANDARD



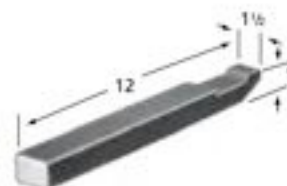
ATI638  
1.25 LBS



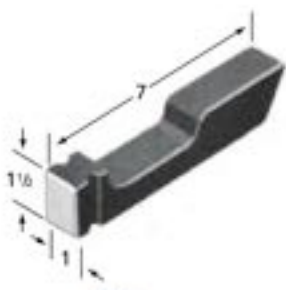
ATI639  
2.00 LBS



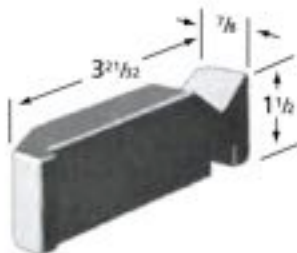
ATI640  
3.00 LBS



ATI641  
4.75 LBS



ATI642  
2.50 LBS



ATI643  
1.25 LBS



ATI644  
11.75 LBS



ATI646  
2.25 LBS



ATI647  
1.50 LBS



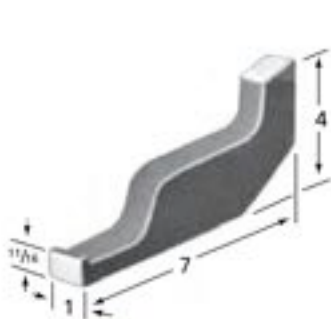
ATI648  
1.50 LBS



ATI649  
2.00 LBS



ATI652  
6.00 LBS



ATI653  
3.00 LBS



ATI656  
1.25 LBS

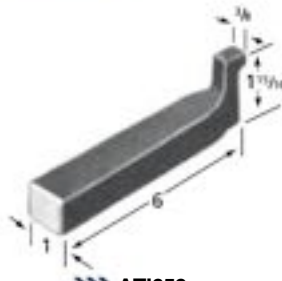


ATI657  
3.00 LBS

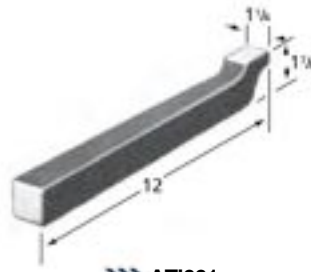


ATI658  
3.75 LBS





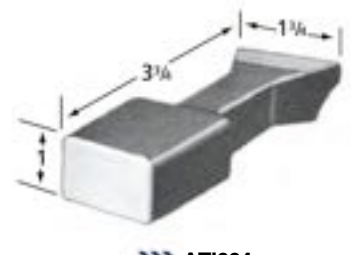
ATI659  
1.50 LBS



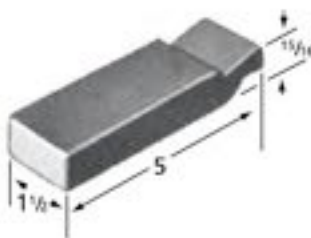
ATI661  
5.25 LBS



ATI662  
0.75 LBS



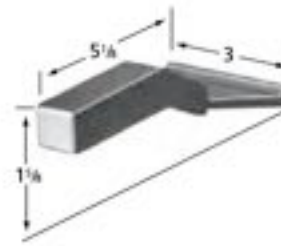
ATI664  
1.25 LBS



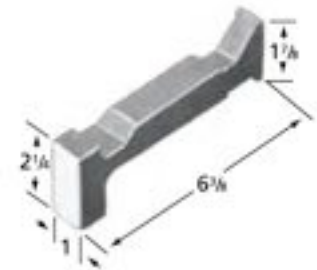
ATI665  
2.00 LBS



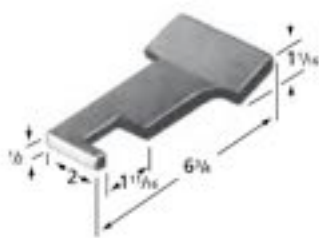
ATI668  
3.00 LBS



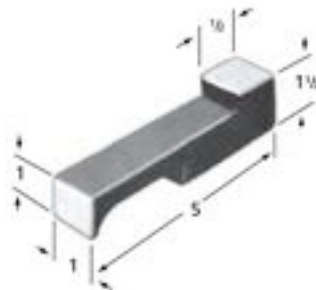
ATI669  
1.50 LBS



ATI670  
2.00 LBS



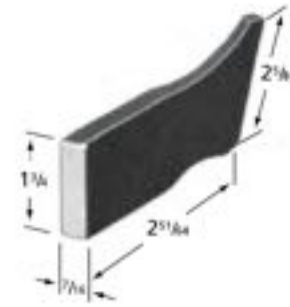
ATI671  
2.25 LBS



ATI672  
1.25 LBS



ATI674  
6.25 LBS



ATI676  
0.75 LBS



ATI678  
1.75 LBS



ATI679  
3.00 LBS

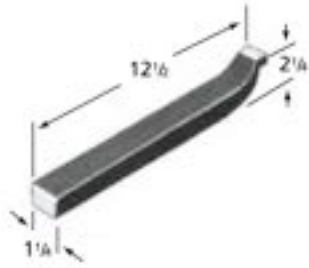


ATI680  
2.00 LBS



ATI681  
1.50 LBS

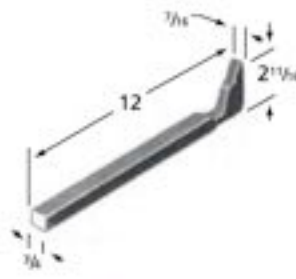
## BUCKING BARS BUCKING BARS, STANDARD



»»» ATI682  
5.50 LBS



»»» ATI683  
3.00 LBS



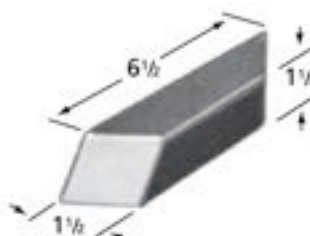
»»» ATI685  
2.00 LBS



»»» ATI686  
4.00 LBS



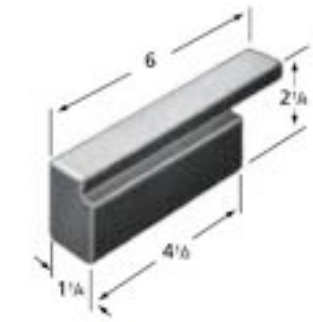
»»» ATI690  
2.50 LBS



»»» ATI692  
3.25 LBS



»»» ATI694  
2.00 LBS



»»» ATI698  
3.50 LBS



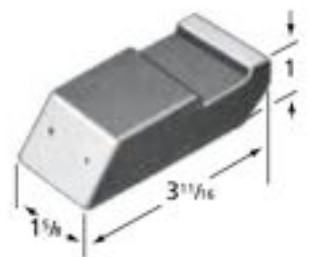
»»» ATI700  
2.00 LBS



»»» ATI701  
2.75 LBS



»»» ATI702  
2.00 LBS



»»» ATI707  
1.50 LBS



»»» ATI708  
1.50 LBS



»»» ATI711  
1.25 LBS

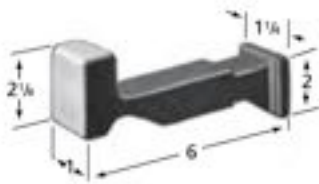


»»» ATI715  
2.00 LBS



»»» ATI718  
1.50 LBS





ATI719  
2.00 LBS



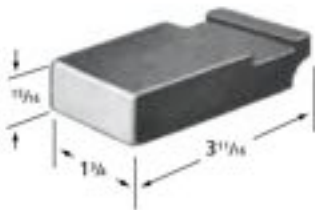
ATI720  
0.75 LBS



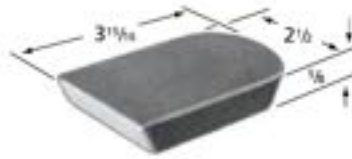
ATI721  
1.75 LBS



ATI722  
1.00 LBS



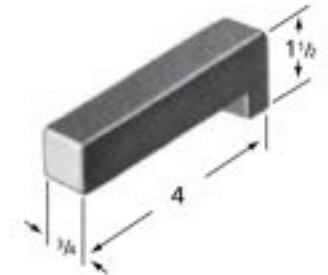
ATI723  
1.25 LBS



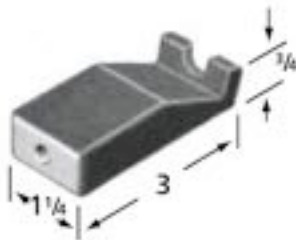
ATI724  
1.50 LBS



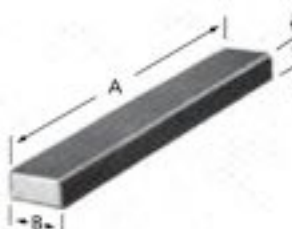
ATI725  
2.00 LBS



ATI727  
1.00 LBS



ATI728  
0.75 LBS

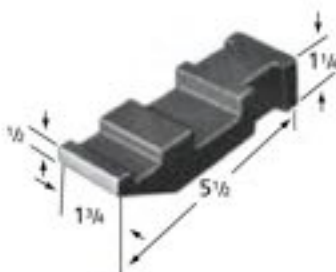


ATI729-1  
0.50 LBS

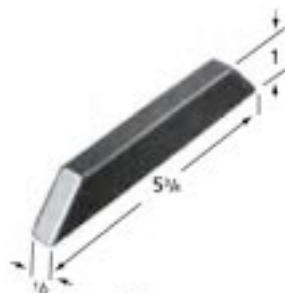
| Part Number | A  | B      | C      | Weight |
|-------------|----|--------|--------|--------|
| ATI729-1    | 4" | 1/2"   | 1/2"   | 0.50   |
| ATI729-2    | 4" | 3/4"   | 3/4"   | 0.75   |
| ATI729-3    | 4" | 1"     | 1"     | 1.00   |
| ATI729-4    | 4" | 1-1/2" | 1-1/2" | 2.50   |
| ATI729-5    | 4" | 2"     | 2"     | 4.50   |
| ATI729-6    | 4" | 1/2"   | 3/4"   | 0.25   |
| ATI729-8    | 6" | 1"     | 3/4"   | 1.25   |
| ATI729-9    | 6" | 2"     | 1"     | 3.50   |



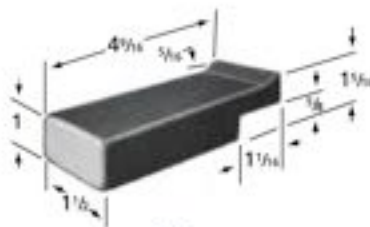
ATI730  
1.25 LBS



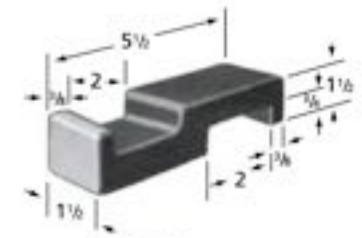
ATI731  
2.25 LBS



ATI732  
0.75 LBS



ATI735  
1.75 LBS

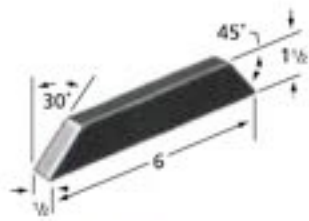


ATI736  
2.25 LBS

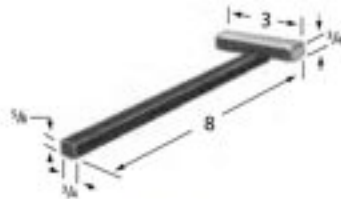


**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

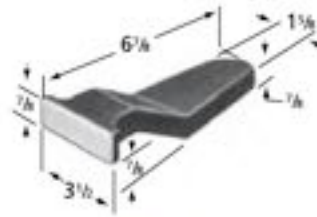
## BUCKING BARS BUCKING BARS, STANDARD



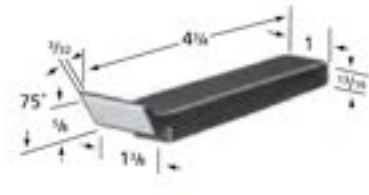
»»» ATI737  
1.00 LBS



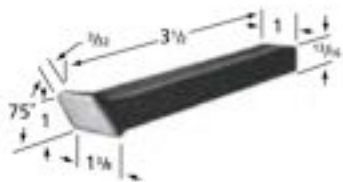
»»» ATI750D-23  
1.75 LBS



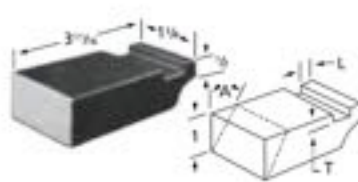
»»» ATI750E-1  
3.25 LBS



»»» ATI750K-1  
1.00 LBS



»»» ATI750K-2  
1.25 LBS



»»» ATI750J-5  
1.75 LBS



»»» ATI750J-51  
1.50 LBS



»»» ATI750P-3  
2.75 LBS



»»» ATI750N-1  
2.50 LBS



»»» ATI750N-26  
4.75 LBS



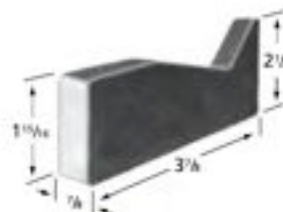
»»» ATI750S-1  
2.75 LBS



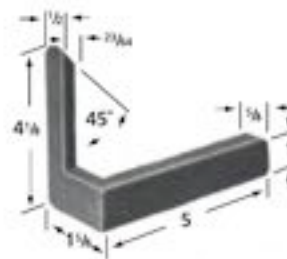
»»» ATI750S-61  
2.75 LBS



»»» ATI750T-1  
0.75 LBS



»»» ATI750U-1  
2.00 LBS

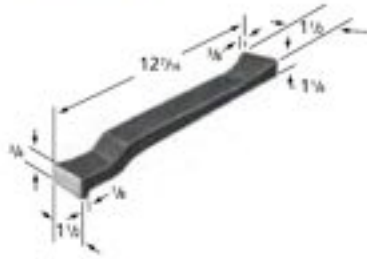


»»» ATI750V-1  
1.25 LBS

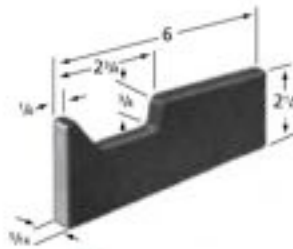


»»» ATI750Y-1  
4.50 LBS





ATI750Z-1  
2.75 LBS



ATI751B-21  
1.25 LBS



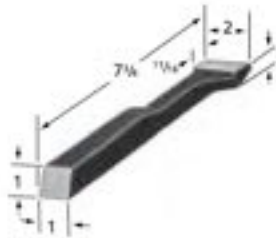
ATI751K-1  
3.00 LBS



ATI751L-4  
0.50 LBS



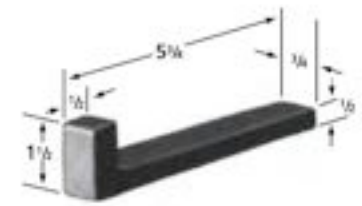
ATI751R-H  
0.50 LBS



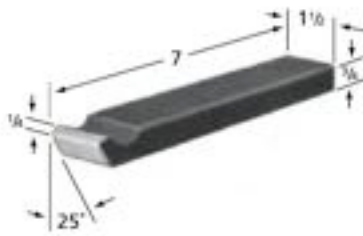
ATI751U-1  
1.25 LBS



ATI751V-1  
1.25 LBS



ATI751Y-11  
0.75 LBS



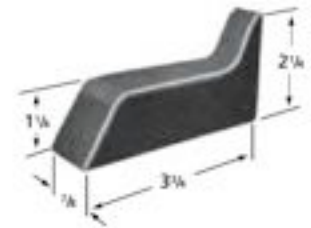
ATI752A-1  
2.25 LBS



ATI752B-1  
4.00 LBS



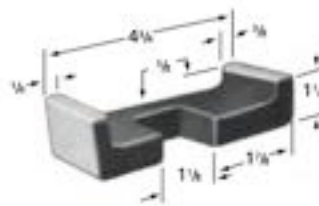
ATI752C-1  
2.50 LBS



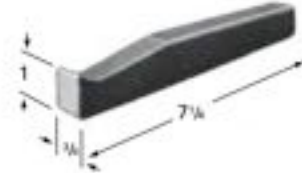
ATI752F-1  
1.25 LBS



ATI752P-1  
0.50 LBS



ATI752T-1  
1.00 LBS



ATI752V-1  
1.62 LBS



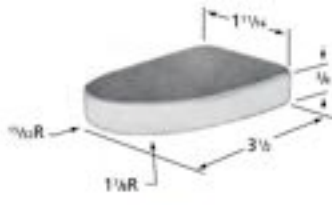
ATI752Z-1  
1.50 LBS

## BUCKING BARS

### BUCKING BARS, STANDARD



ATI753M-1  
1.75 LBS



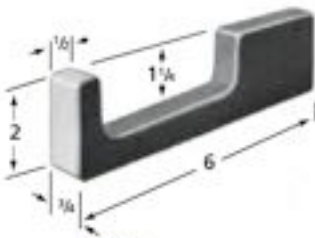
ATI753T-4  
1.25 LBS



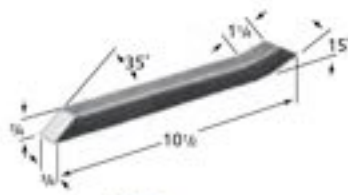
ATI760B-1  
1.75 LBS



ATI760B-2  
1.25 LBS



ATI760B-3  
1.75 LBS



ATI760B-7  
1.50 LBS



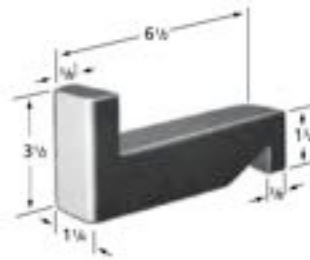
ATI760B-8  
1.75 LBS



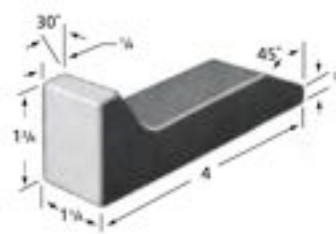
ATI760B-10  
2.00 LBS



ATI760C-1  
2.00 LBS



ATI761C-5  
4.50 LBS



ATI763  
1.25 LBS

## BUCKING BAR SET, 4-PC

### ATI590BBK

- Set includes 1 each: ATI638, ATI647, ATI670, ATI681



ATI638



ATI647



ATI670



ATI681



ATI's Trauma Reducing Bucking Bar significantly reduces vibration associated with hammering rivets. This unique design features an adjusting screw for increasing or decreasing spring tension, depending on the rivet size and material. The cushioned grip maximizes comfort and adds to the reduction of vibration. The quick-change design enables the changing of bars in seconds. These bucking bars may be used with either recoilless or conventional style Rivet Hammers.



### ATI1001UK

The kit consists of five bucking bars, one handle assembly, and plastic carrying case.

Kit includes:

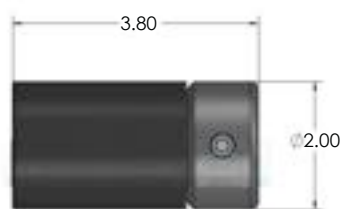
|            |
|------------|
| ATI1001A   |
| ATI1001-8  |
| ATI10019   |
| ATI100110  |
| ATI1001-11 |
| ATI100112  |

### ATI1001K

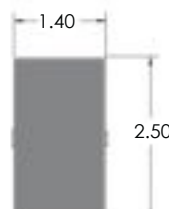
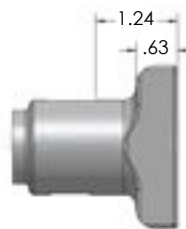
The kit consists of six bucking bars, one handle assembly, and plastic carrying case.

Kit includes:

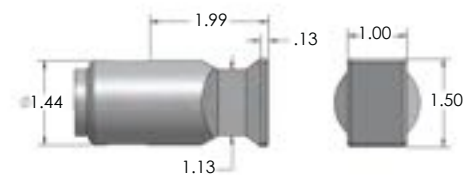
|            |
|------------|
| ATI1001A   |
| ATI1001-8  |
| ATI10019   |
| ATI100110  |
| ATI1001-11 |
| ATI100112  |
| ATI100113  |



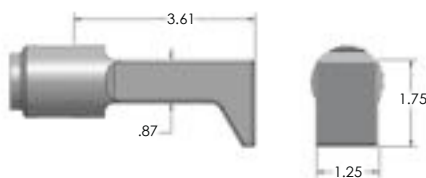
ATI1001A



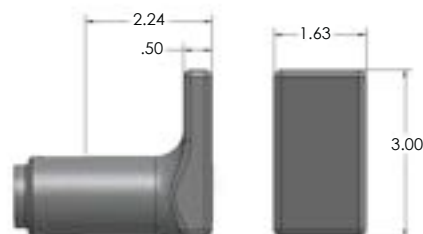
ATI1001-8



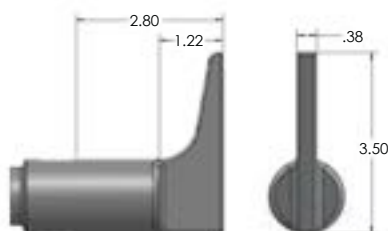
ATI10019



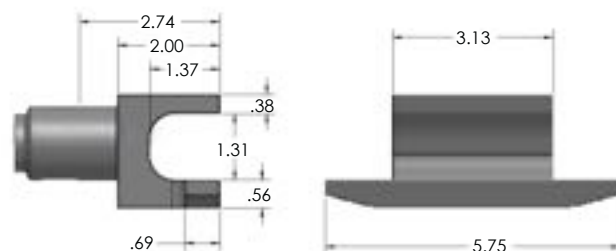
ATI100110



ATI1001-11



ATI100112



ATI100113



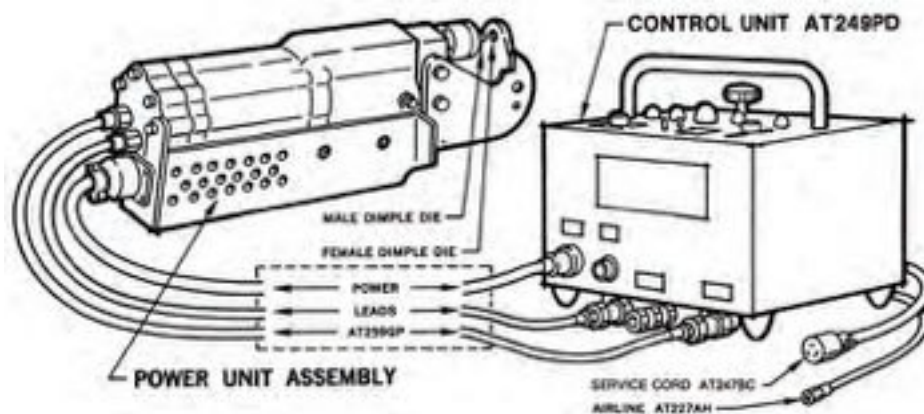
**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## HOT AND COLD DIMPLING TOOLS AND EQUIPMENT

Since the inception of hot dimpling, ATI has been a prime supplier to government agencies and airframe industries throughout the world. Our flow-form method provides a sharp definition, superior strength and complete interne stability. The tools have been engineered to speed and facilitate dimpling production and to unite skill in operation. All hot dimple dies are made from high-grade tool steel, manufactured to precise tolerances, and hard-chrome plated to assure uniform heat transfer and long life.



COLD DIMPLE DIE KIT



PORTABLE HOT DIMPLING



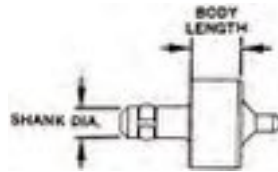
## DIMPLE DIES AND DIMPLING EQUIPMENT

### DIMPLE DIES FOR COLD DIMPLING

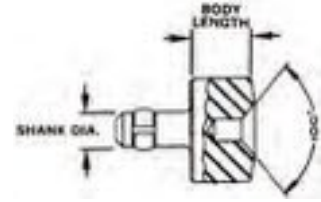
- Dimple Dies are made from heat-treated tool steel, ground, and polished
- Shank diameter is 3/16" and features a spring clip to keep dies in place during use
- For AN426 rivets



ATI206A-6-R



ATI207A-5-R



| Rivet Size  |      | 3/32"       |             |               | 1/8"        |             |               |
|-------------|------|-------------|-------------|---------------|-------------|-------------|---------------|
| Type        |      | Male        | Female      | Male & Female | Male        | Female      | Male & Female |
| Body Length | 1/4" | ATI206A-3-P | ATI207A-3-P | ATI207206A3P  | ATI206A-4-P | ATI207A-4-P | ATI207206A4P  |
|             | 3/8" | ATI206A-3-R | ATI207A-3-R | ATI207206A3R  | ATI206A-4-R | ATI207A-4-R | ATI207206A4R  |
|             | 1/2" | ATI206A-3-S | ATI207A-3-S | ATI207206A3S  | ATI206A-4-S | ATI207A-4-S | ATI207206A4S  |
|             | 5/8" | ATI206A-3-T | ATI207A-3-T |               |             |             |               |

| Rivet Size  |      | 5/32"       |             |               | 3/16"       |             |               | 1/4"        |             |
|-------------|------|-------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|
| Type        |      | Male        | Female      | Male & Female | Male        | Female      | Male & Female | Male        | Female      |
| Body Length | 1/4" | ATI206A-5-P | ATI207A-5-P | ATI207206A5P  | ATI206A-6-P | ATI207A-6-P | ATI207206A6P  | ATI206A-8-P | ATI207A-8-P |
|             | 3/8" | ATI206A-5-R | ATI207A-5-R | ATI207206A5R  | ATI206A-6-R | ATI207A-6-R | ATI207206A6R  | ATI206A-8-R | ATI207A-8-R |
|             | 1/2" | ATI206A-5-S | ATI207A-5-S |               | ATI206A-6-S | ATI207A-6-S | ATI207206A6S  |             |             |
|             | 5/8" |             |             |               |             |             |               |             |             |

Included in 24 Piece Kit

## DIMPLE DIE KIT

### ATI206A-24PC

- Kit contains 24 male and female dimple dies for use with hand and stationary rivet squeezers
- Dies contained in a sturdy, tool-control style box



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## DIMPLE DIES AND DIMPLING EQUIPMENT

### PORTABLE HOT DIMPLING SQUEEZER



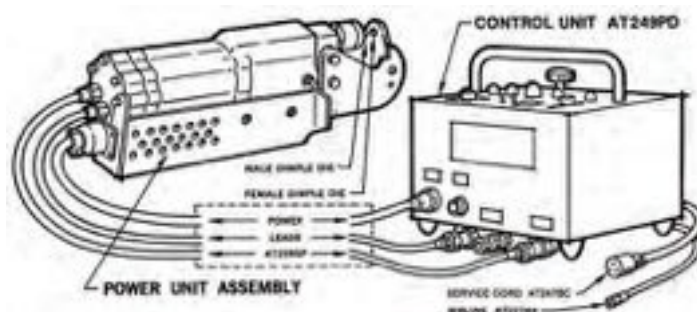
#### USED WITH ATI249PD THERMOMATIC DIMPLING CONTROL UNIT

This squeezer is specifically designed for use where stationary dimpling operation is impractical and sometimes impossible. The unit is capable of working all material gauges up to and including .091". Male and female dies are independently heated by 650-watt heaters and operated from a supply of 110 volts, 60 cycle. This high wattage output produces a short heat-up and recovery time. The male (die) heater is adjustable for maximum squeeze for all material gauges. Also incorporated in this design is a cooling feature which affords ease of handling, and reduces power loss due to heat interference.



| Part Number | Throat Depth |
|-------------|--------------|
| ATI259G     | 2"           |
| ATI259H     | 4"           |
| ATI259J     | 6"           |

## PORTABLE HOT DIMPLING EQUIPMENT



#### ATI247BC

Used to supply the 110-Volt power from the service outlet to the Thermomatic Dimpling Control Unit. This neoprene-covered cord is 20 feet long, has three #12 leads and uses a "Hubble #7555" female plug which is adaptable to all ATI-Brand Dimpling Control Units. Male plug not furnished because of the different service outlets used in various plants.



#### ATI227AH

A 20-foot oil-resistant neoprene hose used with all ATI-Brand Dimpling Equipment. Standard quick-release male and female couplings are an integral part of this air hose.



#### ATI259GP

A 12-foot power lead with male and female receptacles to connect to the ATI249PD Control Panel and ATI259 Portable Squeezers. Protective neoprene casing is held in place by an AN nut and ferrule. The unit is designed to withstand rough handling without damage to the enclosed cable or thermocouple leads.

## THERMOMATIC DIMPLING CONTROL UNIT

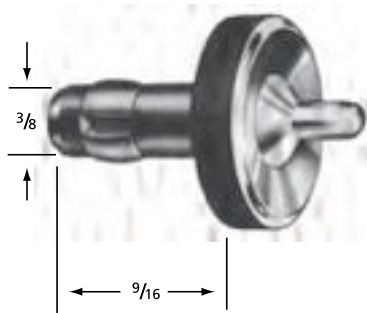
### With Solid State Temperature Controls and Digital Display ATI249PD

The ATI249PD Thermomatic Dimpling Control Unit is a small, compact unit designed to regulate and automatically control dimple die temperatures, prepressure, dwell time and final forming pressure for ATI-Brand Dimpling Equipment. It will operate on single or dual heater tools and contains a solid state temperature control for 0° to 800° F. The high operating efficiency of the unit eliminates waiting for tools to replace heat dissipated into the dimpled sheet. The "Under Temperature Control" makes the equipment inoperative if the die temperature drops below range, preventing the possibility of under-temperature dimpling. A Thermocouple Break Protector prevents the tools from overheating in the event of a thermocouple wire failure. The proper control of pressure, time and temperature are necessary factors in a good, hot dimpling operation. The Thermomatic Unit will control these factors from simple predetermined settings, resulting in dimples of the highest quality.



### MALE DIMPLE DIES

For use with AT1256SS Stationary Dimpling Machine or AT1259 Portable Dimpling Squeezer.



| Fastener              | Part Number | Size     | Pilot Drill Size |
|-----------------------|-------------|----------|------------------|
| <b>AN426 RIVET</b>    | AT1252DA-3  | 3/32"    | #40              |
|                       | AT1252DA-4  | 1/8"     | #30              |
|                       | AT1252DA-5  | 5/32"    | #21              |
|                       | AT1252DA-6  | 3/16"    | #10              |
|                       | AT1252DA-8  | 1/4"     | 1/4"             |
|                       | AT1252DA10  | 5/16"    | 5/16"            |
| <b>AN509 SCREW</b>    | AT1252DB-8  | #8       | #36              |
|                       | AT1252DB-10 | #10      | #30              |
|                       | AT1252DB-12 | 1/4"     | #19              |
| <b>HI-SHEAR RIVET</b> | AT1252DC-3  | 3/16"    | #30              |
|                       | AT1252DC-4  | 1/4"     | #19              |
|                       | AT1252DC-5  | 5/16"    | #5               |
| <b>DZUS STUD</b>      | AT1252DD-8  | FA5      | 5/16"            |
| <b>DZUS STUD</b>      | AT1252DD-9  | FA6-1/2" | 7/16"            |
| <b>DZUS SPRING</b>    | AT1252DD-10 | FA5      | 5/16"            |
| <b>DZUS SPRING</b>    | AT1252DD-12 | FA6-1/2" | 7/16"            |
| <b>AIRLOC</b>         | AT1252DD-2  | 7/32"    | 7/32"            |
|                       | AT1252DD-5  | 5/16"    | 5/16"            |
|                       | AT1252DD-7  | 3/8"     | 3/8"             |

### FEMALE DIMPLE DIES



For use with AT1256SS Stationary Dimpling Machine.

| Fastener              | Part Number | Size     | Pilot Drill Size |
|-----------------------|-------------|----------|------------------|
| <b>AN426 RIVET</b>    | AT1254DA-3  | 3/32"    | #40              |
|                       | AT1254DA-4  | 1/8"     | #30              |
|                       | AT1254DA-5  | 5/32"    | #21              |
|                       | AT1254DA-6  | 3/16"    | #10              |
|                       | AT1254DA-8  | 1/4"     | 1/4"             |
|                       | AT1254DA10  | 5/16"    | 5/16"            |
| <b>AN509 SCREW</b>    | AT1254DB-8  | #8       | #36              |
|                       | AT1254DB-10 | #10      | #30              |
|                       | AT1254DB-12 | 1/4"     | #19              |
| <b>HI-SHEAR RIVET</b> | AT1254DC-3  | 3/16"    | #30              |
|                       | AT1254DC-4  | 1/4"     | #19              |
|                       | AT1254DC-5  | 5/16"    | #5               |
| <b>DZUS STUD</b>      | AT1254DD-8  | FA5      | 5/16"            |
| <b>DZUS STUD</b>      | AT1254DD-9  | FA6-1/2" | 7/16"            |
| <b>DZUS SPRING</b>    | AT1254DD-10 | FA5      | 5/16"            |
| <b>DZUS SPRING</b>    | AT1254DD-12 | FA6-1/2" | 7/16"            |
| <b>AIRLOC</b>         | AT1254DD-2  | 7/32"    | 7/32"            |
|                       | AT1254DD-5  | 5/16"    | 5/16"            |
|                       | AT1254DD-7  | 3/8"     | 3/8"             |

For use with AT1259 Portable Dimpling Machine

| Fastener              | Part Number | Size     | Pilot Drill Size |
|-----------------------|-------------|----------|------------------|
| <b>AN426 RIVET</b>    | AT1251DA-3  | 3/32"    | #40              |
|                       | AT1251DA-4  | 1/8"     | #30              |
|                       | AT1251DA-5  | 5/32"    | #21              |
|                       | AT1251DA6   | 3/16"    | #10              |
|                       | AT1251DA8   | 1/4"     | 1/4"             |
|                       | AT1251DA10  | 5/16"    | 5/16"            |
| <b>AN509 SCREW</b>    | AT1251DB-8  | #8       | #36              |
|                       | AT1251DB-10 | #10      | #30              |
|                       | AT1251DB-12 | 1/4"     | #19              |
| <b>HI-SHEAR RIVET</b> | AT1251DC-3  | 3/16"    | #30              |
|                       | AT1251DC-4  | 1/4"     | #19              |
|                       | AT1251DC-5  | 5/16"    | #5               |
| <b>DZUS STUD</b>      | AT1251DD-8  | FA5      | 5/16"            |
| <b>DZUS STUD</b>      | AT1251DD-9  | FA6-1/2" | 7/16"            |
| <b>DZUS SPRING</b>    | AT1251DD-10 | FA5      | 5/16"            |
| <b>DZUS SPRING</b>    | AT1251DD-12 | FA6-1/2" | 7/16"            |
| <b>AIRLOC</b>         | AT1251DD-2  | 7/32"    | 7/32"            |
|                       | AT1251DD-5  | 5/16"    | 5/16"            |
|                       | AT1251DD-7  | 3/8"     | 3/8"             |



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## DRILLS AND ATTACHMENTS

Research and practical application in restricted-area drilling have enabled ATI to design and manufacture the power transmission tools shown in this section. These units have been engineered to perform a multitude of close-quarter drilling operations at low-cost, with emphasis on durability and trouble-free service.



Included are 45°, 90°, 180°, and 360° adjustable models. These angle drills are available in direct drive and flexible drive, with integral chuck or a variety of threaded spindle sizes. To guarantee excellent service, the precision-ground drive shafts and spindles are made of heat-treated tool steel, and revolve on ball and oilite-type bearings.



## DRILL ATTACHMENTS AND DRILLING ACCESSORIES

### ANGLE DRILL ATTACHMENTS

- Used for drilling holes in tight access areas
- Heavy duty gears and bearings
- 1/4" shank for easy connection to drill motors
- Rated for 4500 RPM



| Part Number | Type              | Duty     | Output Spindle | Drill Capacity | Length | Head Height | Head Diameter |
|-------------|-------------------|----------|----------------|----------------|--------|-------------|---------------|
| ATI300B     | 90° Direct Drive  | STANDARD | 1/4"-28        | 5/16           | 6.00   | 1.625       | 0.813         |
| ATI301B     | 45° Direct Drive  | STANDARD | 1/4"-28        | 5/16           | 6.69   | 1.000       | 0.813         |
| ATI302B     | 90° Flex Drive    | STANDARD | 1/4"-28        | 5/16           | 30.00  | 1.625       | 0.813         |
| ATI303B     | 45° Flex Drive    | STANDARD | 1/4"-28        | 5/16           | 30.00  | 1.000       | 0.813         |
| ATI326A     | 90° Direct Drive  | LIGHT    | 10-32          | 3/16           | 6.88   | 0.813       | 0.500         |
| ATI327A18   | 90° Flex Drive    | LIGHT    | 10-32          | 3/16           | 18.00  | 0.813       | 0.500         |
| ATI327A-24  | 90° Flex Drive    | LIGHT    | 10-32          | 3/16           | 24.00  | 0.813       | 0.500         |
| ATI326B     | 90° Direct Drive  | LIGHT    | 1/4"-28        | 3/16           | 6.88   | 0.813       | 0.500         |
| ATI327B-12  | 90° Flex Drive    | LIGHT    | 1/4"-28        | 3/16           | 12.00  | 0.813       | 0.500         |
| ATI327B18   | 90° Flex Drive    | LIGHT    | 1/4"-28        | 3/16           | 18.00  | 0.813       | 0.500         |
| ATI327B-24  | 90° Flex Drive    | LIGHT    | 1/4"-28        | 3/16           | 24.00  | 0.813       | 0.500         |
| ATI336A     | 90° Direct Drive  | HEAVY    | CHUCK          | 1/4            | 6.25   | 1.438       | 1.000         |
| ATI338A     | 90° Flex Drive    | HEAVY    | CHUCK          | 1/4            | 30.00  | 1.438       | 1.000         |
| ATI336B     | 90° Direct Drive  | HEAVY    | 1/4"-28        | 1/4            | 6.25   | 1.438       | 1.000         |
| ATI338B     | 90° Flex Drive    | HEAVY    | 1/4"-28        | 1/4            | 30.00  | 1.438       | 1.000         |
| ATI337A     | 360° Direct Drive | HEAVY    | CHUCK          | 1/4            | 6.00   | 1.438       | 1.000         |
| ATI339A     | 360° Flex Drive   | HEAVY    | CHUCK          | 1/4            | 30.00  | 1.438       | 1.000         |
| ATI337B     | 360° Direct Drive | HEAVY    | 1/4"-28        | 1/4            | 6.00   | 1.438       | 1.000         |
| ATI339B     | 360° Flex Drive   | HEAVY    | 1/4"-28        | 1/4            | 30.00  | 1.438       | 1.000         |



ATI303B



ATI326B

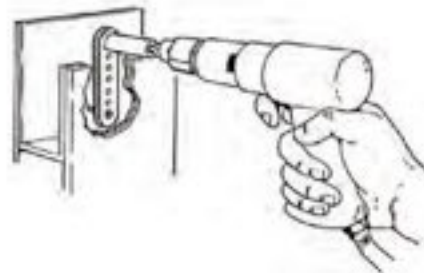
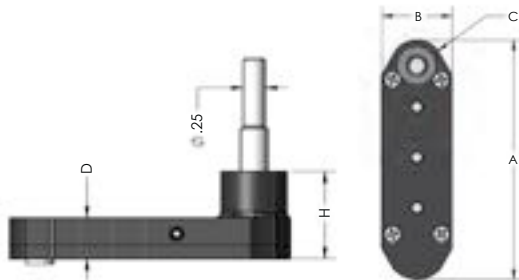


ATI336A



ATI337B

### OFFSET DRILL ATTACHMENTS



- Offset drive enables drilling in tight access areas
- 1/4" round shank

| Part Number | Type                      | Speed | Spindle | Height (H) | Length (A) | Width (B) | Thickness (D) | Radius C |
|-------------|---------------------------|-------|---------|------------|------------|-----------|---------------|----------|
| ATI313A     | Straight Offset           | 6000  | 10-32   | 4.31       | 4.35       | 0.875     | 0.290         | 0.42     |
| ATI313B     | Straight Offset           | 6000  | 1/4"-28 | 4.31       | 4.35       | 0.875     | 0.290         | 0.42     |
| ATI313LA    | 30° Left Hand Offset      | 6000  | 10-32   | 4.31       | 4.00       | 0.875     | 0.290         | 0.42     |
| ATI313LB    | 30° Left Hand Offset      | 6000  | 1/4"-28 | 4.31       | 4.00       | 0.875     | 0.290         | 0.42     |
| ATI313RA    | 30° Right Hand Offset     | 6000  | 10-32   | 4.31       | 4.00       | 0.875     | 0.290         | 0.42     |
| ATI313RB    | 30° Right Hand Offset     | 6000  | 1/4"-28 | 4.31       | 4.00       | 0.875     | 0.290         | 0.42     |
| ATI331A     | Straight Offset           | 6000  | 10-32   | 4.38       | 4.19       | 0.921     | 0.438         | 0.44     |
| ATI331B     | Straight Offset           | 6000  | 1/4"-28 | 4.38       | 4.19       | 0.921     | 0.438         | 0.44     |
| ATI332A     | Straight Offset           | 4200  | 10-32   | 1.50       | 3.17       | 0.920     | 0.370         | 0.34     |
| ATI332B     | Straight Offset           | 4200  | 1/4"-28 | 1.50       | 3.17       | 0.920     | 0.370         | 0.34     |
| ATI332SC    | Straight Offset           | 4200  | 1/4"-28 | 1.50       | 3.12       | 0.920     | 0.320         | 0.31     |
| ATI333B     | Straight Offset, Reversed | 4200  | 1/4"-28 | 1.50       | 3.18       | 0.960     | 0.500         | 0.32     |



ATI313LB



ATI331B



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## DRILL ATTACHMENTS AND DRILLING ACCESSORIES

### DRILL GUIDE HOUSINGS

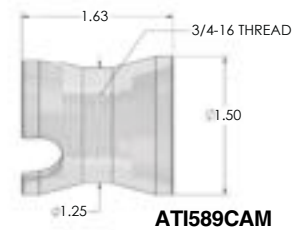
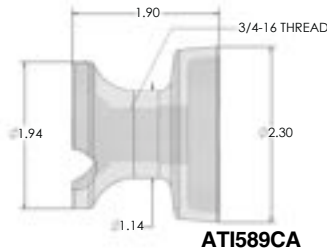
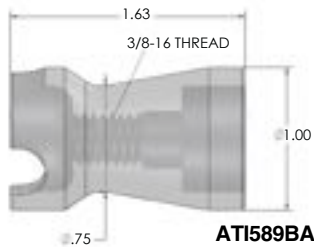
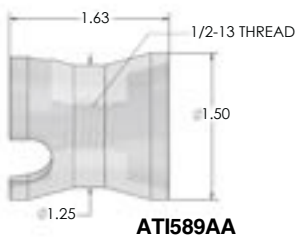


- Maintains tool perpendicular to flat or curved surfaces
- Used with drills, taps or reamers
- Case-hardened bushings are interchangeable in housings
- Housings provide ample relief for chips under the bushing
- Guide assemblies consist of housing with bushing installed
- Threaded interface allows interchangeability of bushings and housings

ATI589AA



STANDARD SLIP RENEWABLE  
DRILL BUSHING  
\*Not available  
from ATI



### DRILL GUIDE HOUSINGS

| Housing Part Number | Description                                                                                                                | Bushing Reference                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| ATI589AA            | THREADED DRILL GUIDE HOUSING<br>DRILL SIZES #40 (.098) THRU 5/16" (.3125)                                                  | ATI589AB-series<br>1/2"-13           |
| ATI589BA            | THREADED DRILL GUIDE HOUSING<br>DRILL SIZES #40 (.098) THRU 1/4"                                                           | ATI58924T-series<br>3/8"-16          |
| ATI589CA            | THREADED DRILL GUIDE HOUSING<br>LARGER DIAMETER FOR EASE IN BUSHING EXCHANGE<br>DRILL SIZES 1/4" (.250) THRU 9/16" (.5625) | ATI589CB-series<br>3/4"-16           |
| ATI589CAM           | THREADED DRILL GUIDE HOUSING<br>DRILL SIZES 1/4" (.250) THRU 9/16" (.5625)                                                 | ATI589CB-series<br>3/4"-16           |
| ATI589DA            | FLANGE LOCK DRILL GUIDE HOUSING<br>DRILL SIZES #80 (.0135) THRU #10 (.1935)                                                | *SLIP RENEWABLE 5/16" OD X 3/4" LONG |
| ATI589EA            | FLANGE LOCK DRILL GUIDE HOUSING<br>DRILL SIZES #28 (.1405) THRU 11/32" (.3438)                                             | *SLIP RENEWABLE 1/2" OD X 3/4" LONG  |

### DRILL BUSHING ASSEMBLY KIT

#### ATI590DBK

These unique hand-held guides keep drills and taps perpendicular to the skin surface. The interchangeable bushings are hardened to provide maximum wear and extended life. The kit consists of three plastic housings and nine bushings.

Kit includes:

|   |              |   |              |
|---|--------------|---|--------------|
| 3 | ATI589AA     | 1 | ATI589AB1875 |
| 1 | ATI589AB098  | 1 | ATI589AB1935 |
| 1 | ATI589AB1285 | 1 | ATI589AB2187 |
| 1 | ATI589AB1562 | 1 | ATI589AB250  |
| 1 | ATI589AB159  | 1 | ATI589AB-257 |



| Drill Guide Assemblies Part Number | Drill Bushing Part Number | Drill Size | Bushing Size |
|------------------------------------|---------------------------|------------|--------------|
| ATI589A-3T098                      | ATI58924T098              | #40        | 3/8"-16      |
| ATI589A-3T125                      | ATI58924T125              | 1/8"       | 3/8"-16      |
| ATI589A-3T128                      | ATI58924T128              | #30        | 3/8"-16      |
| ATI589A-3T156                      | ATI58924T156              | 5/32"      | 3/8"-16      |
| ATI589A-3T159                      | ATI58924T159              | #21        | 3/8"-16      |
| ATI589A-3T161                      | ATI58924T161              | #20        | 3/8"-16      |
| ATI589A-3T177                      | ATI58924T177              | #16        | 3/8"-16      |
| ATI589A-3T187                      | ATI58924T187              | 3/16"      | 3/8"-16      |
| ATI589A-3T193                      | ATI58924T193              | #10        | 3/8"-16      |
| ATI589A-3T234                      | ATI58924T234              | 15/64"     | 3/8"-16      |
| ATI589A-3T250                      | ATI58924T250              | 1/4 or E   | 3/8"-16      |

\*Special drill bushing sizes available upon request



Drill Guide Assembly

| Drill Guide Assemblies Part Number | Drill Bushing Part Number | Drill Size | Bushing Size |
|------------------------------------|---------------------------|------------|--------------|
| ATI589A-093                        | ATI589AB093               | 3/32       | 1/2"-13      |
| ATI589A-098                        | ATI589AB098               | #40        | 1/2"-13      |
| ATI589A-125                        | ATI589AB125               | 1/8        | 1/2"-13      |
| ATI589A-1285                       | ATI589AB1285              | #30        | 1/2"-13      |
| ATI589A-1562                       | ATI589AB1562              | 5/32       | 1/2"-13      |
| ATI589A-159                        | ATI589AB159               | #21        | 1/2"-13      |
| ATI589A161                         | ATI589AB-161              | #20        | 1/2"-13      |
| ATI589A166                         | ATI589AB-166              | #19        | 1/2"-13      |
| ATI589A173                         | ATI589AB-173              | #17        | 1/2"-13      |
| ATI589A177                         | ATI589AB-177              | #16        | 1/2"-13      |
| ATI589A185                         | ATI589AB1850              | #13        | 1/2"-13      |
| ATI589A-1875                       | ATI589AB1875              | 3/16       | 1/2"-13      |
| ATI589A189                         | ATI589AB1890              | #12        | 1/2"-13      |
| ATI589A191                         | ATI589AB191               | #11        | 1/2"-13      |
| ATI589A-1935                       | ATI589AB1935              | #10        | 1/2"-13      |
| ATI589A-199                        | ATI589AB-199              | #8         | 1/2"-13      |
| ATI589A2187                        | ATI589AB2187              | 7/32       | 1/2"-13      |
| ATI589A2344                        | ATI589AB2344              | 15/64      | 1/2"-13      |
| ATI589A250                         | ATI589AB250               | 1/4 or E   | 1/2"-13      |
| ATI589A257                         | ATI589AB-257              | F          | 1/2"-13      |

\*Special drill bushing sizes available upon request



Drill Bushing

| Drill Guide Assemblies Part Number | Drill Bushing Part Number | Drill Size | Bushing Size |
|------------------------------------|---------------------------|------------|--------------|
| ATI589C-2812                       | ATI589CB2812              | 9/32       | 3/4"-16      |
| ATI589C.3125                       | ATI589CB3125              | 5/16       | 3/4"-16      |
| ATI589C-3437                       | ATI589CB3437              | 11/32      | 3/4"-16      |
| ATI589C-375                        | ATI589CB375               | 3/8        | 3/4"-16      |
| ATI589C-4375                       | ATI589CB4375              | 7/16       | 3/4"-16      |
| ATI589C-.500                       | ATI589CB500               | 1/2        | 3/4"-16      |

\*Special drill bushing sizes available upon request

## DRILL ATTACHMENTS AND DRILLING ACCESSORIES

### STRAP DUPLICATORS



#### FEATURES:

- Provides an accurate method for duplicating hidden holes in overlapping sheets
- Standard pilots are used when sheets can be pried apart. Inverted pilots are used when sheets cannot be separated. Spring loaded center punch allows for marking in limited access for drilling later
- Position pilot in hole to be duplicated then drill through bushing. Back side of pilot is relieved to allow drill to pass through first sheet only
- Straps are spring steel. Bushings, pilots and center punch are hardened drill rod assuring accurate hole duplication. Tools are identified with part number and drill size
- Working length is shown, maximum distance from edge of sheet to hole. Back side of strap is beveled to aid in prying sheets apart



ATI532-61



ATI500-52

| 6-1/4" Length<br>Part Number | 13-1/4" Length<br>Part Number | Type                       | Drill Size |
|------------------------------|-------------------------------|----------------------------|------------|
| ATI532-61                    | ATI532C-61                    | Bushing,<br>Standard Pilot | #40        |
| ATI532-62                    | ATI532C-62                    | Bushing,<br>Standard Pilot | #30        |
| ATI532-63                    | ATI532C-63                    | Bushing,<br>Standard Pilot | #21        |
| ATI532-64                    | ATI532C-64                    | Bushing,<br>Standard Pilot | #19        |
| ATI532-65                    | ATI532C-65                    | Bushing,<br>Standard Pilot | #10        |
| ATI532-66                    | ATI532C-66                    | Bushing,<br>Standard Pilot | #5         |
| ATI532-67                    | ATI532C-67                    | Bushing,<br>Standard Pilot | F          |
| ATI532-68                    | ATI532C-68                    | Bushing,<br>Standard Pilot | 1/4"       |

\*Special bushing and pilot sizes available upon request

| 6-1/4" Length<br>Part Number | 13-1/4" Length<br>Part Number | Type                          | Drill Size |
|------------------------------|-------------------------------|-------------------------------|------------|
| ATI500-51                    | ATI500C-51                    | Spring Loaded<br>Center Punch | #40        |
| ATI500-52                    | ATI500C-52                    | Spring Loaded<br>Center Punch | #30        |
| ATI500-53                    | ATI500C-53                    | Spring Loaded<br>Center Punch | #21        |
| ATI500-54                    | ATI500C-54                    | Spring Loaded<br>Center Punch | #19        |
| ATI500-55                    | ATI500C-55                    | Spring Loaded<br>Center Punch | #10        |
| ATI500-56                    | ATI500C-56                    | Spring Loaded<br>Center Punch | #5         |
| ATI500-57                    | ATI500C-57                    | Spring Loaded<br>Center Punch | F          |
| ATI500-58                    | ATI500C-58                    | Spring Loaded<br>Center Punch | 1/4"       |

\*Special bushing and pilot sizes available upon request



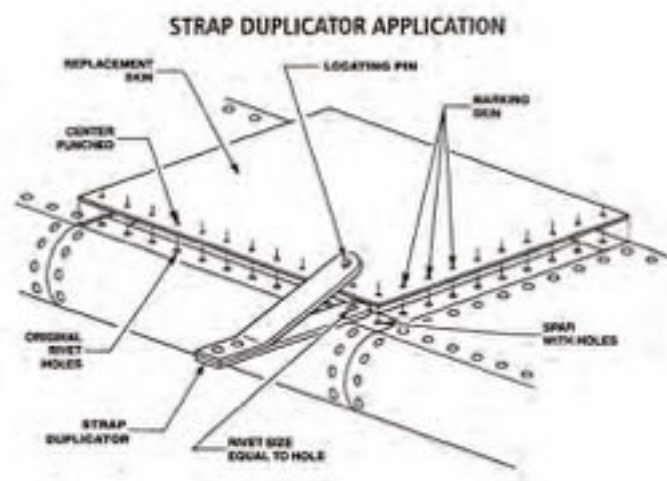
ATI532A-61

| 6-1/4" Length<br>Part Number | 13-1/4" Length<br>Part Number | Type                       | Drill Size |
|------------------------------|-------------------------------|----------------------------|------------|
| ATI532A-61                   | ATI532D-61                    | Bushing,<br>Inverted Pilot | #40        |
| ATI532A-62                   | ATI532D-62                    | Bushing,<br>Inverted Pilot | #30        |
| ATI532A-63                   | ATI532D-63                    | Bushing,<br>Inverted Pilot | #21        |
| ATI532A-64                   | ATI532D-64                    | Bushing,<br>Inverted Pilot | #19        |
| ATI532A-65                   | ATI532D-65                    | Bushing,<br>Inverted Pilot | #10        |
| ATI532A-66                   | ATI532D-66                    | Bushing,<br>Inverted Pilot | #5         |
| ATI532A-67                   | ATI532D-67                    | Bushing,<br>Inverted Pilot | F          |
| ATI532A-68                   | ATI532D-68                    | Bushing,<br>Inverted Pilot | 1/4"       |

\*Special bushing and pilot sizes available upon request

#### STRAP DUPLICATORS SETS

|             |                                              |                        |
|-------------|----------------------------------------------|------------------------|
| ATI532A/SET | 10 PIECE SET<br>STANDARD & INVERTED<br>PILOT | Includes Items in Blue |
|-------------|----------------------------------------------|------------------------|



### THREADED SHANK 3-JAW CHUCK

#### ATI339EC

- Drill bit capacity from 1/16" to 1/4"
- Allows use of standard straight shank drills in tools with threaded spindles
- Internal jaws are inverted for maximum chucking torque
- 1/4"-28 threaded shank



ATI339EC

### THREADED SHANK DRILL ADAPTORS

- Enables use of straight shank drill bits with threaded output angle drill attachments
- Retains drill bit with set screw
- 1/4"-28 threaded shank



ATI503-40



ATI503-72

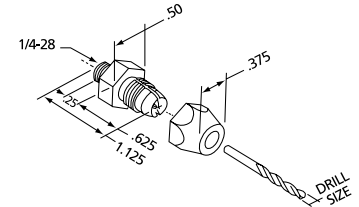
| Part Number | Drill Size |
|-------------|------------|
| ATI503-40   | #40        |
| ATI503-30   | #30        |
| ATI503-21   | #21        |
| ATI503-20   | #20        |
| ATI503-11   | #11        |
| ATI503-10   | #10        |
| ATI503-3    | #3         |
| ATI503-66   | 1/8        |
| ATI503-70   | 3/16       |
| ATI503-72   | 1/4        |
| ATI503-73   | 5/16       |
| ATI503-74   | 3/8        |
| ATI503-77   | F          |
| ATI503-78   | N          |

### THREADED SHANK DRILL COLLETS

- Enables use of straight shank drill bits with threaded output angle drill attachments
- 1/4"-28 threaded shank

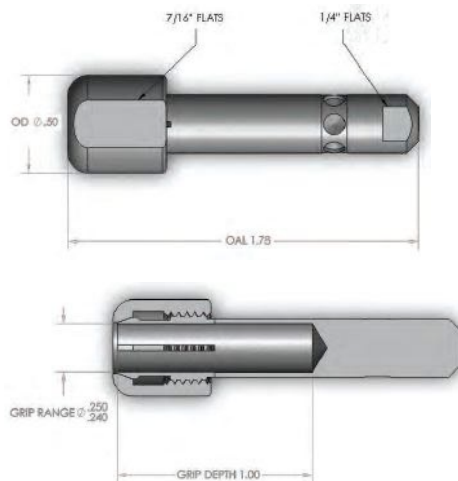


ATI503C-1/8



| Part Number  | Drill Size |
|--------------|------------|
| ATI503C-3/32 | 3/32       |
| ATI503C-40   | #40        |
| ATI503C-1/8  | 1/8        |
| ATI503C-30   | #30        |
| ATI503C-5/32 | 5/32       |
| ATI503C-21   | #21        |
| ATI503C-20   | #20        |
| ATI503C-19   | #19        |
| ATI503C-16   | #16        |
| ATI503C-3/16 | 3/16       |
| ATI503C-12   | #12        |
| ATI503C-11   | #11        |
| ATI503C-10   | #10        |
| ATI503C-7/32 | 7/32       |
| ATI503C-1/4  | 1/4        |
| ATI503C-F    | F          |

### QUICK-CHANGE DRILL COLLET



| Part Number | Description                                             |
|-------------|---------------------------------------------------------|
| ATI504C-1/4 | Collecting Adaptor, Two-Piece, Quick-change shank, 1/4" |

### DRILL STOPS

- Controls hole depth and prevents chuck jaws from contacting drilled surface
- Unit locks onto drill bit with a set screw



ATI570-30

| Part Number  | Drill Size |
|--------------|------------|
| ATI570-50    | #50        |
| ATI570-40    | #40        |
| ATI570-30    | #30        |
| ATI570-28    | #28        |
| ATI570-27    | #27        |
| ATI570-21    | #21        |
| ATI570-20    | #20        |
| ATI570-16    | #16        |
| ATI570-12    | #12        |
| ATI570-11    | #11        |
| ATI570-10    | #10        |
| ATI570-13/64 | 13/64      |
| ATI570-7/32  | 7/32       |
| ATI570-1/4   | 1/4        |
| ATI570-5/16  | 5/16       |



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**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## DRILL ATTACHMENTS AND DRILLING ACCESSORIES

### THREADED DRILLS, DEBURRING TOOLS AND CHIP CHASERS



#### THREADED SHANK DRILL BITS

- MADE FROM HSS
- 135° Split Point
- 1/4"-28 threaded shank

| Part Number  | Drill Size | Length | Type  | Part Number  | Drill Size | Length | Type  |
|--------------|------------|--------|-------|--------------|------------|--------|-------|
| ATIHSSST3/32 | 3/32       | 0.50   | STUB  | ATIHSSL5/32  | 5/32       | 2.13   | LONG  |
| ATIHSSST40   | #40        | 0.50   | STUB  | ATIHSSST21   | #21        | 0.56   | STUB  |
| ATIHSSSH40   | #40        | 1.00   | SHORT | ATIHSSST3/16 | 3/16       | 0.56   | STUB  |
| ATIHSSST1/8  | 1/8        | 0.50   | STUB  | ATIHSSSH3/16 | 3/16       | 1.25   | SHORT |
| ATIHSSSH1/8  | 1/8        | 1.00   | SHORT | ATIHSSL3/16  | 3/16       | 2.13   | LONG  |
| ATIHSSL1/8   | 1/8        | 2.13   | LONG  | ATIHSSST10   | #10        | 0.56   | LONG  |
| ATIHSSST30   | #30        | 0.56   | STUB  | ATIHSSSH10   | #10        | 1.25   | SHORT |
| ATIHSSSH30   | #30        | 1.25   | SHORT | ATIHSSST1/4  | 1/4        | 0.63   | STUB  |
| ATIHSSL30    | #30        | 2.13   | LONG  | ATIHSSSH1/4  | 1/4        | 1.25   | SHORT |
| ATIHSSST5/32 | 5/32       | 0.56   | STUB  | ATIHSSL1/4   | 1/4        | 2.13   | LONG  |
| ATIHSSSH5/32 | 5/32       | 1.25   | SHORT |              |            |        |       |



#### SPEED DRIVER, DEBURRING TOOLS AND CUTTERS

'Speed Driver' an ATI original, with swivel handle and unique offset shaft allows for rapid, uniform and safe deburring of drilled holes.

| Part Number | Description                                                                                                                                                               |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ATI521A     | SPEED DRIVER, used with ATI521C deburring cutter. Tool has a taper lock spindle and only accepts this cutter                                                              |
| ATI521B     | SPEED DRIVER, used with ATI407-4 deburr/countersink cutter. Accepts any 1/4"-28 threaded shank cutters                                                                    |
| ATI521C     | DEBURRING CUTTER, 100-degree cutting angle, 3-flute, 3/8" body, 7/32 shank diameter                                                                                       |
| ATI407-4    | COUNTERSINK CUTTER, 100-degree cutting angle, 3-flute, 3/8" body, 1/4"-28 threaded shank. Can be used in any drill attachment that accepts 1/4"-28 threaded shank cutters |

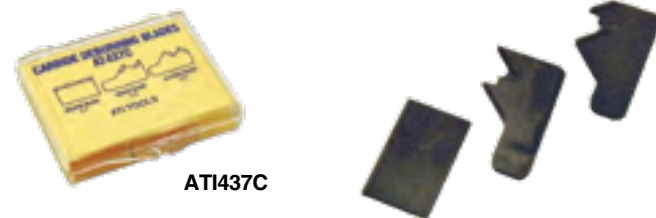


#### CARBIDE DEBURRING BLADE

##### ATI437C SERIES

Used in conjunction with squaring and deburring heads, these blades perform on hydraulic tubing ends. Available in sets of 3 or individually. A set includes one outside, one inside, and one squaring blade.

| 3 Piece Kit | Square Blade | Inside Blade | Outside Blade |
|-------------|--------------|--------------|---------------|
| ATI437C     | ATI437C-1    | ATI437C-2    | ATI437C-3     |

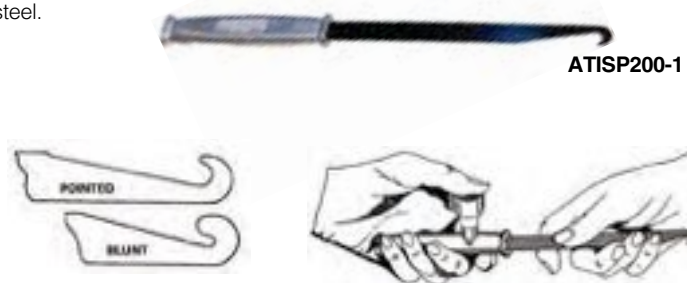


#### CHIP CHASERS

Designed to remove chips that accumulate between sheet stock after drilling rivet holes. Handles are cast aluminum and the blades are made from clock spring steel.

##### CHIP CHASERS WITH INTERCHANGEABLE BLADES

| Chip Chaser Assembly Part Number | Chip Chaser Blade Part Number | Blade Length | Hook Style |
|----------------------------------|-------------------------------|--------------|------------|
| ATISP200-1                       | ATISP20002                    | 5-7/8"       | Pointed    |
| ATISP200-2                       | ATISP20003                    | 5-7/8"       | Blunt      |
| ATISP200-3                       | ATISP20004                    | 2-3/4"       | Pointed    |
| ATISP200-4                       | ATISP20005                    | 2-3/4"       | Blunt      |
| ATISP200                         | Chip Chaser Handle            |              |            |



##### CHIP CHASERS WITH MOLDED HANDLES

| Chip Chaser Part Number | Blade Length | Hook Style |
|-------------------------|--------------|------------|
| ATI511                  | 2-3/4"       | Pointed    |
| ATI512                  | 5-7/8"       | Pointed    |



### EDGE BREAKERS

Quickly removes burrs & sharp edges from sheet stock.

| Part Number | Description                                                                                                                                                                                                                                                                      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ATI514      | Hardened tip, safety shield and plastic handle works well on aluminum sheet stock                                                                                                                                                                                                |
| ATISP225    | <ul style="list-style-type: none"> <li>Cast aluminum body with molded thumb rest safety guard</li> <li>Uses standard triangle indexable carbide inserts</li> <li>Quickly removes burrs and sharp edges from all types of sheet stock from aluminum to stainless steel</li> </ul> |



### BURNISHING TOOL - ATI515

Designed to remove blemishes in materials. Heat-treated blade is chrome-plated, polished to mirror finish, and 2-3/8" long. Large plastic safety handle insures comfortable grip.

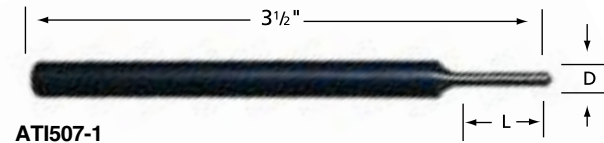
| Part Number | Description                                                              |
|-------------|--------------------------------------------------------------------------|
| ATI515      | Burnishing Tool, Hard chrome plated, 2-3/8" blade length, plastic handle |



### DUPLICATING PUNCHES

- Accurately duplicate hole location from one sheet to another.
- Heat-treated, the locating diameter and punch are ground to insure absolute concentricity and held to close tolerances

| Part Number | D    | L   |
|-------------|------|-----|
| ATI507-1    | 3/32 | 1/4 |
| ATI507-2    | #40  | 1/4 |
| ATI507-3    | 1/8  | 3/8 |
| ATI507-4    | #30  | 3/8 |
| ATI507-5    | 5/32 | 1/2 |
| ATI507-6    | #19  | 1/2 |
| ATI507-7    | 3/16 | 1/2 |
| ATI507-8    | #10  | 1/2 |
| ATI507-9    | 7/32 | 1/2 |
| ATI507-10   | 1/4  | 1/2 |
| ATI507-11   | 5/16 | 1/2 |
| ATI507-12   | 3/8  | 1/2 |
| ATI507-13   | 7/16 | 1/2 |
| ATI507-14   | 1/2  | 1/2 |



### DUPLICATING PUNCH KIT

#### ATI507KT

Kit contains fourteen 3-1/2" OAL punches, sizes 3/32", #40, 1/8", #30, 5/32", #19, 3/16", #10, 7/32", 1/4", 5/16", 3/8", 7/16", and 1/2".



## DRILL ATTACHMENTS AND DRILLING ACCESSORIES

### NUT PLATE DRILL JIGS



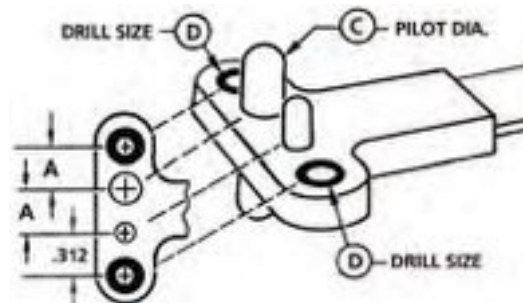
- Used for accurate drilling of rivet holes for nut plate fasteners
- Flexible handle provides clearance for hand during use
- Hardened steel head for durability

#### ONE LUG — SINGLE WING STANDARD (SWS)

| Part Number  | Type | "A" Spacing | "C" Pilot Diameter | "D" Drill Size |
|--------------|------|-------------|--------------------|----------------|
| ATI518G      | SWS  | .344        | .139               | #40            |
| ATI518H      | SWS  | .344        | .164               | #40            |
| ATI518RL     | SWS  | .344        | .165               | #40            |
| ATI518RC     | SWS  | .344        | .168               | #40            |
| ATI518RM     | SWS  | .344        | .188               | #40            |
| ATI518J      | SWS  | .344        | .191               | #40            |
| ATI518RD     | SWS  | .344        | .192               | #40            |
| ATI518L      | SWS  | .344        | .213               | #40            |
| ATI518RU     | SWS  | .344        | .227               | #40            |
| ATI518K      | SWS  | .344        | .248               | #40            |
| ATI518RE     | SWS  | .344        | .256               | #40            |
| ATI518LF     | SWS  | .344        | .281               | #40            |
| ATI518RW     | SWS  | .344        | .311               | #40            |
| ATI518RO     | SWS  | .500        | .248               | #40            |
| ATI518RF     | SWS  | .500        | .256               | #40            |
| ATI518RX     | SWS  | .500        | .311               | #40            |
| ATI518YF     | SWS  | .500        | .343               | #40            |
| ATI518RP     | SWS  | .500        | .311               | #30            |
| ATI518RG     | SWS  | .500        | .315               | #30            |
| ATI518FH     | SWS  | .500        | .372               | #30            |
| ATI518RH     | SWS  | .500        | .373               | #30            |
| ATI518RJ     | SWS  | .562        | .435               | #30            |
| ATI518RB     | SWS  | .344        | .143               | #40            |
| ATI518NASDA5 | SWS  | .359        | .312               | #30            |
| ATI518NASDA6 | SWS  | .414        | .372               | #30            |



ATI518J



»» ORDER SPECIAL ONE-LUG, SINGLE-WING STANDARD, DRILL JIG'S AS FOLLOWS:

AT518SWS-.XXX-.XXXX-.XX

↑ DRILL SIZE  
 ↑ PILOT DIAMETER  
 ↑ "A" SPACING  
 ↑ SINGLE-WING STANDARD

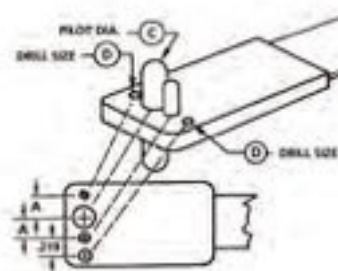
\*VALUES MAY BE EXPRESSED IN METRIC

#### ONE LUG — SINGLE WING MINIATURE (SWM)

| Part Number  | Type | "A" Spacing | "C" Pilot Diameter | "D" Drill Size |
|--------------|------|-------------|--------------------|----------------|
| ATI518NASBA2 | SWM  | .125        | .086               | #51            |
| ATI518NASBA3 | SWM  | .133        | .099               | #51            |
| ATI518NASBA4 | SWM  | .148        | .112               | #51            |
| ATI518NASBA6 | SWM  | .171        | .139               | #51            |
| ATI518PA     | SWM  | .203        | .112               | #40            |
| ATI518JA     | SWM  | .203        | .140               | #40            |
| ATI518PB     | SWM  | .218        | .139               | #40            |
| ATI518JB     | SWM  | .218        | .166               | #40            |
| ATI518PC     | SWM  | .234        | .164               | #40            |
| ATI518JC     | SWM  | .234        | .193               | #40            |
| ATI518PD     | SWM  | .250        | .191               | #40            |
| ATI518JD     | SWM  | .250        | .218               | #40            |
| ATI518PE     | SWM  | .281        | .248               | #40            |
| ATI518JE     | SWM  | .281        | .281               | #40            |
| ATI518PF     | SWM  | .250        | .188               | #40            |



ATI518PB

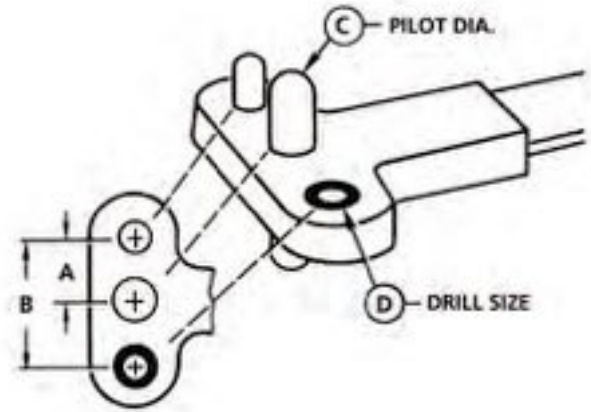


»» ORDER SPECIAL ONE-LUG, SINGLE-WING MINIATURE, DRILL JIG'S AS FOLLOWS:

AT518SWM-.XXX-.XXXX-.XX

↑ DRILL SIZE  
 ↑ PILOT DIAMETER  
 ↑ "A" SPACING  
 ↑ SINGLE-WING MINIATURE

\*VALUES MAY BE EXPRESSED IN METRIC



### TWO LUG — DOUBLE WING STANDARD (DWS)

| Part Number | Type | "A" Spacing | "B" Spacing | "C" Pilot Diameter | "D" Drill Size |
|-------------|------|-------------|-------------|--------------------|----------------|
| ATI518A     | DWS  | .344        | .688        | .139               | #40            |
| ATI518B     | DWS  | .344        | .688        | .164               | #40            |
| ATI518KK    | DWS  | .344        | .688        | .165               | #40            |
| ATI518KC    | DWS  | .344        | .688        | .168               | #40            |
| ATI518KL    | DWS  | .344        | .688        | .188               | #40            |
| ATI518C     | DWS  | .344        | .688        | .191               | #40            |
| ATI518KD    | DWS  | .344        | .688        | .192               | #40            |
| ATI518KT    | DWS  | .344        | .688        | .227               | #40            |
| ATI518KU    | DWS  | .344        | .688        | .256               | #40            |
| ATI518BF    | DWS  | .344        | .688        | .281               | #40            |
| ATI518HL    | DWS  | .344        | .688        | .290               | #40            |
| ATI518GM    | DWS  | .344        | .688        | .312               | #40            |
| ATI518HE    | DWS  | .3125       | .625        | .187               | #40            |
| ATI518HM    | DWS  | .3125       | .625        | .218               | #40            |
| ATI518HO    | DWS  | .375        | .750        | .248               | #40            |
| ATI518HP    | DWS  | .375        | .750        | .281               | #40            |
| ATI518HH    | DWS  | .375        | .750        | .372               | #40            |
| ATI518M     | DWS  | .375        | .750        | .438               | #40            |
| ATI518HN    | DWS  | .375        | .750        | .467               | #40            |
| ATI518GT    | DWS  | .4375       | .875        | .373               | #40            |
| ATI518HX    | DWS  | .450        | .900        | .372               | #40            |
| ATI518D     | DWS  | .500        | 1.000       | .248               | #40            |
| ATI518KE    | DWS  | .500        | 1.000       | .256               | #40            |
| ATI518GR    | DWS  | .500        | 1.000       | .271               | #40            |
| ATI518GS    | DWS  | .500        | 1.000       | .296               | #40            |
| ATI518KV    | DWS  | .500        | 1.000       | .311               | #40            |
| ATI518DF    | DWS  | .500        | 1.000       | .343               | #40            |
| ATI518GG    | DWS  | .500        | 1.000       | .656               | #40            |
| ATI518GL    | DWS  | .344        | .688        | .218               | #40            |
| ATI518KA    | DWS  | .344        | .688        | .119               | #40            |
| ATI518KB    | DWS  | .344        | .688        | .143               | #40            |
| ATI518HF    | DWS  | .500        | 1.000       | .191               | #30            |
| ATI518HJ    | DWS  | .500        | 1.000       | .248               | #30            |
| ATI518KN    | DWS  | .500        | 1.000       | .311               | #30            |
| ATI518E     | DWS  | .500        | 1.000       | .312               | #30            |
| ATI518KF    | DWS  | .500        | 1.000       | .315               | #30            |
| ATI518F     | DWS  | .500        | 1.000       | .372               | #30            |
| ATI518KG    | DWS  | .500        | 1.000       | .373               | #30            |
| ATI518GD    | DWS  | .500        | 1.000       | .375               | #30            |
| ATI518HG    | DWS  | .500        | 1.000       | .389               | #30            |
| ATI518HD    | DWS  | .500        | 1.000       | .500               | #30            |

**>>> ORDER SPECIAL TWO-LUG, SINGLE-WING STANDARD, DRILL JIG'S AS FOLLOWS:**

ATI518DWS-XXX-XXX-XXXX-XX

↑ ↑ ↑ ↑ ↑  
 DRILL SIZE  
 PILOT DIAMETER  
 "B" SPACING  
 "A" SPACING  
 DOUBLE-WING STANDARD

\*VALUES MAY BE EXPRESSED IN METRIC

| Part Number  | Type | "A" Spacing | "B" Spacing | "C" Pilot Diameter | "D" Drill Size |
|--------------|------|-------------|-------------|--------------------|----------------|
| ATI518HS     | DWS  | .500        | 1.000       | .561               | #30            |
| ATI518GB     | DWS  | .500        | 1.000       | .593               | #30            |
| ATI518HT     | DWS  | .500        | 1.000       | .624               | #30            |
| ATI518N      | DWS  | .500        | 1.000       | .688               | #30            |
| ATI518GA     | DWS  | .500        | 1.000       | .702               | #30            |
| ATI518GP     | DWS  | .562        | 1.124       | .438               | #30            |
| ATI518HW     | DWS  | .592        | 1.184       | .811               | #30            |
| ATI518GN     | DWS  | .595        | 1.190       | .592               | #30            |
| ATI518KH     | DWS  | .625        | 1.250       | .435               | #30            |
| ATI518HB     | DWS  | .687        | 1.375       | .191               | #30            |
| ATI518HC     | DWS  | .687        | 1.375       | .405               | #30            |
| ATI518KJ     | DWS  | .687        | 1.375       | .498               | #30            |
| ATI518GE     | DWS  | .687        | 1.375       | .500               | #30            |
| ATI518HK     | DWS  | .687        | 1.375       | .656               | #30            |
| ATI518GC     | DWS  | .687        | 1.375       | .718               | #30            |
| ATI518HA     | DWS  | .687        | 1.375       | .749               | #30            |
| ATI518P      | DWS  | .687        | 1.375       | .811               | #30            |
| ATI518HU     | DWS  | .687        | 1.375       | .938               | #30            |
| ATI518HY     | DWS  | .700        | 1.400       | .850               | #30            |
| ATI518GK     | DWS  | .500        | 1.000       | .343               | #30            |
| ATI518KP     | DWS  | .500        | 1.000       | .457               | #30            |
| ATI518GF     | DWS  | .375        | .750        | .437               | #40            |
| ATI518GH     | DWS  | .375        | .750        | .397               | #40            |
| ATI518GJ     | DWS  | .500        | 1.000       | .281               | #40            |
| ATI518SP1171 | DWS  | .562        | 1.124       | .191               | #40            |
| ATI518NASAA5 | DWS  | .359        | .718        | .312               | #30            |
| ATI518NASAA6 | DWS  | .414        | .828        | .372               | #30            |



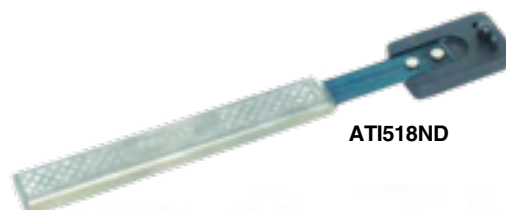
**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## DRILL ATTACHMENTS AND DRILLING ACCESSORIES

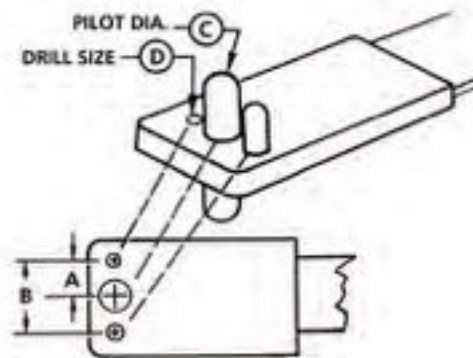
### NUT PLATE DRILL JIGS

#### TWO LUG — DOUBLE WING MINIATURE (DWM)

| Part Number  | Type | "A" Spacing | "B" Spacing | "C" Pilot Diameter | "D" Drill Size |
|--------------|------|-------------|-------------|--------------------|----------------|
| ATI518NASAA2 | DWM  | .125        | .250        | .086               | #51            |
| ATI518NASAA3 | DWM  | .133        | .265        | .099               | #51            |
| ATI518NASAA4 | DWM  | .148        | .296        | .112               | #51            |
| ATI518NSAA06 | DWM  | .172        | .343        | .139               | #51            |
| ATI518NA     | DWM  | .203        | .406        | .112               | #40            |
| ATI518AA     | DWM  | .203        | .406        | .140               | #40            |
| ATI518BA     | DWM  | .203        | .406        | .180               | #40            |
| ATI518NB     | DWM  | .218        | .436        | .139               | #40            |
| ATI518AB     | DWM  | .219        | .437        | .166               | #40            |
| ATI518BB     | DWM  | .219        | .437        | .2055              | #40            |
| ATI518NC     | DWM  | .234        | .468        | .164               | #40            |
| ATI518NG     | DWM  | .234        | .468        | .1925              | #40            |
| ATI518AC     | DWM  | .234        | .468        | .193               | #40            |
| ATI518NH     | DWM  | .234        | .468        | .227               | #40            |
| ATI518BC     | DWM  | .234        | .468        | .234               | #40            |
| ATI518ND     | DWM  | .250        | .500        | .191               | #40            |
| ATI518AD     | DWM  | .250        | .500        | .218               | #40            |
| ATI518BD     | DWM  | .250        | .500        | .257               | #40            |
| ATI518NE     | DWM  | .281        | .562        | .248               | #40            |
| ATI518AE     | DWM  | .281        | .562        | .281               | #40            |
| ATI518BE     | DWM  | .281        | .562        | .323               | #40            |
| ATI518NF     | DWM  | .313        | .625        | .312               | #30            |
| ATI518AF     | DWM  | .313        | .625        | .343               | #30            |
| ATI518ZX     | DWM  | .539        | 1.080       | .248               | #40            |
| ATI518SP1016 | DWM  | .295        | .590        | .217               | #40            |
| ATI518BG     | DWM  | .359        | .718        | .373               | #30            |
| ATI518NJ     | DWM  | .250        | .500        | .1875              | #40            |



ATI518ND



» ORDER SPECIAL TWO-LUG, DOUBLE-WING MINIATURE, DRILL JIG'S AS FOLLOWS:

ATI518DWM-.XXXX-.XXXX-.XXXX-.XX



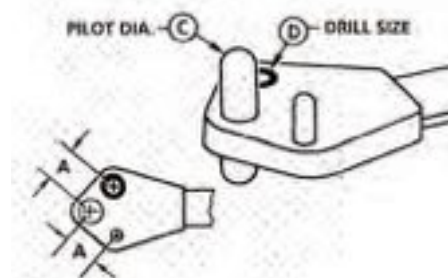
\*VALUES MAY BE EXPRESSED IN METRIC

#### CORNER WING STANDARD (CWS)

| Part Number  | Type | "A" Spacing | "C" Pilot Diameter | "D" Drill Size |
|--------------|------|-------------|--------------------|----------------|
| ATI518R      | CWS  | .344        | .139               | #40            |
| ATI518S      | CWS  | .344        | .164               | #40            |
| ATI518MK     | CWS  | .344        | .1645              | #40            |
| ATI518MC     | CWS  | .344        | .1675              | #40            |
| ATI518ML     | CWS  | .344        | .1875              | #40            |
| ATI518T      | CWS  | .344        | .191               | #40            |
| ATI518MD     | CWS  | .344        | .192               | #40            |
| ATI518MT     | CWS  | .344        | .2265              | #40            |
| ATI518MU     | CWS  | .500        | .2555              | #40            |
| ATI518U      | CWS  | .500        | .248               | #40            |
| ATI518ME     | CWS  | .500        | .2555              | #40            |
| ATI518MV     | CWS  | .500        | .3105              | #40            |
| ATI518MN     | CWS  | .500        | .311               | #30            |
| ATI518V      | CWS  | .500        | .312               | #30            |
| ATI518MF     | CWS  | .500        | .3145              | #30            |
| ATI518W      | CWS  | .500        | .372               | #30            |
| ATI518MP     | CWS  | .500        | .373               | #30            |
| ATI518MR     | CWS  | .562        | .435               | #30            |
| ATI518X      | CWS  | .562        | .4375              | #30            |
| ATI518MB     | CWS  | .344        | .1425              | #40            |
| ATI518NASCA5 | CWS  | .358        | .312               | #30            |



ATI518U



» ORDER SPECIAL CORNER-WING STANDARD DRILL JIG'S AS FOLLOWS:

ATI518CWS-.XXXX-.XXXX-.XX



\*VALUES MAY BE EXPRESSED IN METRIC



**WARNING**



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.

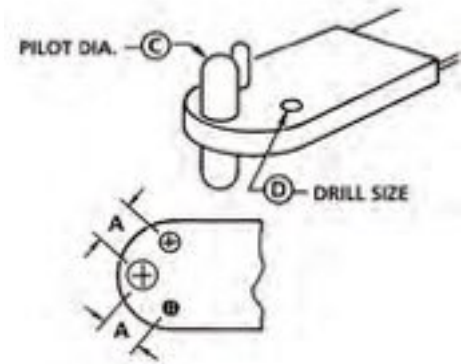
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1



ATI518SD

### CORNER WING MINIATURE (CWM)

| Part Number  | Type | "A" Spacing | "C" Pilot Diameter | "D" Drill Size |
|--------------|------|-------------|--------------------|----------------|
| ATI518NSCA02 | CWM  | .125        | .086               | #51            |
| ATI518NSCA03 | CWM  | .138        | .099               | #51            |
| ATI518NSCA04 | CWM  | .148        | .112               | #51            |
| ATI518NSCA06 | CWM  | .172        | .139               | #51            |
| ATI518SA     | CWM  | .203        | .112               | #40            |
| ATI518UA     | CWM  | .203        | .140               | #40            |
| ATI518SB     | CWM  | .218        | .139               | #40            |
| ATI518UB     | CWM  | .218        | .166               | #40            |
| ATI518SC     | CWM  | .234        | .164               | #40            |
| ATI518UC     | CWM  | .234        | .193               | #40            |
| ATI518SD     | CWM  | .250        | .191               | #40            |
| ATI518UD     | CWM  | .250        | .218               | #40            |
| ATI518SE     | CWM  | .281        | .248               | #40            |
| ATI518UE     | CWM  | .281        | .281               | #40            |
| ATI518SF     | CWM  | .312        | .312               | #30            |
| ATI518UF     | CWM  | .312        | .343               | #30            |
| ATI518SJ     | CWM  | .250        | .1875              | #40            |



»» ORDER SPECIAL CORNER-WING MINIATURE DRILL JIG'S AS FOLLOWS"

AT518CWM-.XXXX-.XXXX-.XX

↑ ↑ ↑ ↑  
 DRILL SIZE  
 PILOT DIAMETER  
 "A" SPACING  
 CORNER-WING MINIATURE

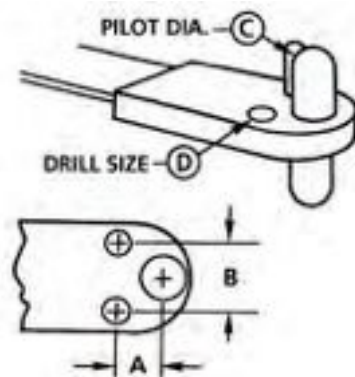
\*VALUES MAY BE EXPRESSED IN METRIC



ATI518TA

### MINIATURE ANCHOR NUT (SLM)

| Part Number  | Type | "A" Spacing | "B" Spacing | "C" Pilot Diameter | "D" Drill Size |
|--------------|------|-------------|-------------|--------------------|----------------|
| ATI518NSDA08 | SLM  | .234        | .219        | .164               | #40            |
| ATI518TA     | SLM  | .250        | .219        | .191               | #40            |
| ATI518TB     | SLM  | .281        | .219        | .248               | #40            |
| ATI518TC     | SLM  | .312        | .250        | .312               | #30            |
| ATI518TD     | SLM  | .359        | .269        | .3125              | #30            |
| ATI518TE     | SLM  | .250        | .219        | .1875              | #40            |
| ATI518NASDA5 | SLM  | .359        | .269        | .312               | #30            |
| ATI518NASDA6 | SLM  | .414        | .269        | .372               | #30            |



»» ORDER SPECIAL MINIATURE ANCHOR NUT DRILL JIG'S AS FOLLOWS:

AT518SLM-.XXXX-.XXXX-.XXXX-.XX

↑ ↑ ↑ ↑ ↑  
 DRILL SIZE  
 PILOT DIAMETER  
 "B" SPACING  
 "A" SPACING  
 MINIATURE-ANCHOR NUT

\*VALUES MAY BE EXPRESSED IN METRIC



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## DRILL ATTACHMENTS AND DRILLING ACCESSORIES

### NUT PLATE CONVERSIONS



#### SINGLE WING

| Nutplate Spec | Style       | Part Number |
|---------------|-------------|-------------|
| MS21051-06    | Single Wing | ATI518G     |
| MS21051-08    | Single Wing | ATI518H     |
| MS21051-3     | Single Wing | ATI518J     |
| MS21051-4     | Single Wing | ATI518K     |
| MS21051-5     | Single Wing | ATI518RP    |
| MS21051-6     | Single Wing | ATI518RH    |
| MS21052-06    | Single Wing | ATI518G     |
| MS21052-08    | Single Wing | ATI518H     |
| MS21052-3     | Single Wing | ATI518J     |
| MS21052-4     | Single Wing | ATI518K     |
| MS21052-5     | Single Wing | ATI518RP    |
| MS21052-6     | Single Wing | ATI518RH    |
| MS21053-08    | Single Wing | ATI518H     |
| MS21053-3     | Single Wing | ATI518J     |
| MS21053-4     | Single Wing | ATI518RO    |
| MS21053-5     | Single Wing | ATI518RP    |
| MS21054-08    | Single Wing | ATI518H     |
| MS21054-3     | Single Wing | ATI518J     |
| MS21054-4     | Single Wing | ATI518RO    |
| MS21054-5     | Single Wing | ATI518RP    |
| MS21061-06    | Single Wing | ATI518G     |
| MS21061-08    | Single Wing | ATI518H     |
| MS21061-3     | Single Wing | ATI518J     |
| MS21061-4     | Single Wing | ATI518RO    |
| MS21061-5     | Single Wing | ATI518RP    |
| MS21061-6     | Single Wing | ATI518RH    |
| MS21062-06    | Single Wing | ATI518G     |
| MS21062-08    | Single Wing | ATI518H     |
| MS21062-3     | Single Wing | ATI518J     |
| MS21062-4     | Single Wing | ATI518RO    |
| MS21062-5     | Single Wing | ATI518RP    |
| MS21062-6     | Single Wing | ATI518RH    |
| MS21071-04    | Single Wing | ATI518PA    |
| MS21071-06    | Single Wing | ATI518PB    |
| MS21071-08    | Single Wing | ATI518PC    |
| MS21071-3     | Single Wing | ATI518PD    |
| MS21071-4     | Single Wing | ATI518PE    |
| MS21072-04    | Single Wing | ATI518PA    |
| MS21072-06    | Single Wing | ATI518PB    |
| MS21072-08    | Single Wing | ATI518PC    |
| MS21072-3     | Single Wing | ATI518PD    |
| MS21072-4     | Single Wing | ATI518PE    |
| NAS1067-08    | Single Wing | ATI518PC    |
| NAS1067-3     | Single Wing | ATI518PD    |
| NAS1067-4     | Single Wing | ATI518PE    |
| NAS1774-06    | Single Wing | ATI518G     |
| NAS1774-08    | Single Wing | ATI518H     |
| NAS1774-3     | Single Wing | ATI518J     |
| NAS1774-4     | Single Wing | ATI518RO    |
| NAS1774-5     | Single Wing | ATI518RP    |

#### SINGLE WING

| Nutplate Spec | Style       | Part Number |
|---------------|-------------|-------------|
| NAS1774-6     | Single Wing | ATI518RH    |
| NAS1792-3     | Single Wing | ATI518J     |
| NAS1792-4     | Single Wing | ATI518RO    |
| NAS1792-5     | Single Wing | ATI518RP    |
| NAS687-06     | Single Wing | ATI518G     |
| NAS687-08     | Single Wing | ATI518H     |
| NAS687-3      | Single Wing | ATI518J     |
| NAS687-4      | Single Wing | ATI518RO    |
| NAS687-5      | Single Wing | ATI518RP    |

#### DOUBLE WING

| Nutplate Spec | Style       | Part Number |
|---------------|-------------|-------------|
| MS21047-06    | Double Wing | ATI518A     |
| MS21047-08    | Double Wing | ATI518B     |
| MS21047-3     | Double Wing | ATI518C     |
| MS21047-4     | Double Wing | ATI518D     |
| MS21047-5     | Double Wing | ATI518E     |
| MS21047-6     | Double Wing | ATI518F     |
| MS21048-06    | Double Wing | ATI518A     |
| MS21048-08    | Double Wing | ATI518B     |
| MS21048-3     | Double Wing | ATI518C     |
| MS21048-4     | Double Wing | ATI518D     |
| MS21048-5     | Double Wing | ATI518E     |
| MS21048-6     | Double Wing | ATI518F     |
| MS21048-7     | Double Wing | ATI518GP    |
| MS21049-08    | Double Wing | ATI518B     |
| MS21049-3     | Double Wing | ATI518C     |
| MS21049-4     | Double Wing | ATI518D     |
| MS21049-5     | Double Wing | ATI518E     |
| MS21050-08    | Double Wing | ATI518B     |
| MS21050-3     | Double Wing | ATI518C     |
| MS21050-4     | Double Wing | ATI518D     |
| MS21050-5     | Double Wing | ATI518E     |
| MS21059-06    | Double Wing | ATI518A     |
| MS21059-08    | Double Wing | ATI518B     |
| MS21059-3     | Double Wing | ATI518C     |
| MS21059-4     | Double Wing | ATI518D     |
| MS21059-5     | Double Wing | ATI518E     |
| MS21059-6     | Double Wing | ATI518F     |
| MS21060-06    | Double Wing | ATI518A     |
| MS21060-08    | Double Wing | ATI518B     |
| MS21060-3     | Double Wing | ATI518C     |
| MS21060-4     | Double Wing | ATI518D     |
| MS21060-5     | Double Wing | ATI518E     |
| MS21060-6     | Double Wing | ATI518F     |
| MS21069-04    | Double Wing | ATI518NA    |
| MS21069-06    | Double Wing | ATI518NB    |
| MS21069-08    | Double Wing | ATI518NC    |
| MS21069-3     | Double Wing | ATI518ND    |
| MS21069-4     | Double Wing | ATI518NE    |





## DRILL ATTACHMENTS AND DRILLING ACCESSORIES

### NUT PLATE CONVERSIONS

#### DOUBLE WING

| Nutplate Spec | Style       | Part Number  |
|---------------|-------------|--------------|
| MS21069-5     | Double Wing | ATI518NASAA5 |
| MS21069-6     | Double Wing | ATI518NASAA6 |
| MS21070-04    | Double Wing | ATI518NA     |
| MS21070-06    | Double Wing | ATI518NB     |
| MS21070-08    | Double Wing | ATI518NC     |
| MS21070-3     | Double Wing | ATI518ND     |
| MS21070-4     | Double Wing | ATI518NE     |
| MS21070-5     | Double Wing | ATI518NASAA5 |
| MS21075-04    | Double Wing | ATI518NA     |
| MS21075-06    | Double Wing | ATI518NB     |
| MS21075-08    | Double Wing | ATI518NC     |
| MS21075-3     | Double Wing | ATI518ND     |
| MS21075-4     | Double Wing | ATI518NE     |
| MS21075-5     | Double Wing | ATI518NASAA5 |
| MS21076-04    | Double Wing | ATI518NA     |
| MS21076-06    | Double Wing | ATI518NB     |
| MS21076-08    | Double Wing | ATI518NC     |
| MS21076-3     | Double Wing | ATI518ND     |
| MS21076-4     | Double Wing | ATI518NE     |
| MS21076-5     | Double Wing | ATI518NASAA5 |
| NAS1068-04    | Double Wing | ATI518NASAA4 |
| NAS1068-06    | Double Wing | ATI518NSAA06 |
| NAS1068-08    | Double Wing | ATI518NC     |
| NAS1068-3     | Double Wing | ATI518ND     |
| NAS1068-4     | Double Wing | ATI518NE     |
| NAS1068-5     | Double Wing | ATI518NASAA5 |
| NAS1473-08    | Double Wing | ATI518B      |
| NAS1473-3     | Double Wing | ATI518C      |
| NAS1473-4     | Double Wing | ATI518D      |
| NAS1473-5     | Double Wing | ATI518E      |
| NAS1474-3     | Double Wing | ATI518SP1171 |
| NAS1791-3     | Double Wing | ATI518C      |
| NAS1791-4     | Double Wing | ATI518D      |
| NAS1791-5     | Double Wing | ATI518E      |
| NAS697-02     | Double Wing | AT518NASAA02 |
| NAS697-03     | Double Wing | AT518NASAA03 |
| NAS697-04     | Double Wing | ATI518NASAA4 |
| NAS697-06     | Double Wing | ATI518NSAA06 |
| NAS697-08     | Double Wing | ATI518NC     |
| NAS697-3      | Double Wing | ATI518ND     |
| NAS697-4      | Double Wing | ATI518NE     |
| NAS697-5      | Double Wing | ATI518NASAA5 |
| NAS697-6      | Double Wing | ATI518NASAA6 |

#### CORNER

| Nutplate Spec | Style  | Part Number |
|---------------|--------|-------------|
| MS21055-06    | CORNER | ATI518R     |
| MS21055-08    | CORNER | ATI518S     |
| MS21055-3     | CORNER | ATI518T     |
| MS21055-4     | CORNER | ATI518U     |

#### CORNER

| Nutplate Spec | Style  | Part Number  |
|---------------|--------|--------------|
| MS21055-5     | CORNER | ATI518V      |
| MS21055-6     | CORNER | ATI518W      |
| MS21055-7     | CORNER | ATI518X      |
| MS21056-06    | CORNER | ATI518R      |
| MS21056-08    | CORNER | ATI518S      |
| MS21056-3     | CORNER | ATI518T      |
| MS21056-4     | CORNER | ATI518U      |
| MS21056-5     | CORNER | ATI518V      |
| MS21056-6     | CORNER | ATI518W      |
| MS21056-7     | CORNER | ATI518X      |
| MS21057-08    | CORNER | ATI518S      |
| MS21057-3     | CORNER | ATI518T      |
| MS21057-4     | CORNER | ATI518U      |
| MS21057-5     | CORNER | ATI518V      |
| MS21058-08    | CORNER | ATI518S      |
| MS21058-3     | CORNER | ATI518T      |
| MS21058-4     | CORNER | ATI518U      |
| MS21058-5     | CORNER | ATI518V      |
| MS21073-02    | CORNER | ATI518NSCA02 |
| MS21073-04    | CORNER | ATI518SA     |
| MS21073-06    | CORNER | ATI518SB     |
| MS21073-08    | CORNER | ATI518SC     |
| MS21073-3     | CORNER | ATI518SD     |
| MS21073-4     | CORNER | ATI518SE     |
| MS21073-5     | CORNER | ATI518NSCA5  |
| MS21074-02    | CORNER | ATI518NSCA02 |
| MS21074-04    | CORNER | ATI518SA     |
| MS21074-06    | CORNER | ATI518SB     |
| MS21074-08    | CORNER | ATI518SC     |
| MS21074-3     | CORNER | ATI518SD     |
| MS21074-4     | CORNER | ATI518SE     |
| MS21074-5     | CORNER | ATI518NSCA5  |

#### SHORT LUG

| Nutplate Spec | Style     | Part Number |
|---------------|-----------|-------------|
| NAS1789-08    | SHORT LUG | AT518NSDA08 |
| NAS1789-3     | SHORT LUG | ATI518TA    |
| NAS1789-4     | SHORT LUG | ATI518TB    |
| NAS1789-5     | SHORT LUG | ATI518TD    |
| NAS1789-6     | SHORT LUG | AT518NASDA6 |



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## COMPARE THE DIFFERENCE

Ground on-centers to ensure concentricity and eliminate run out

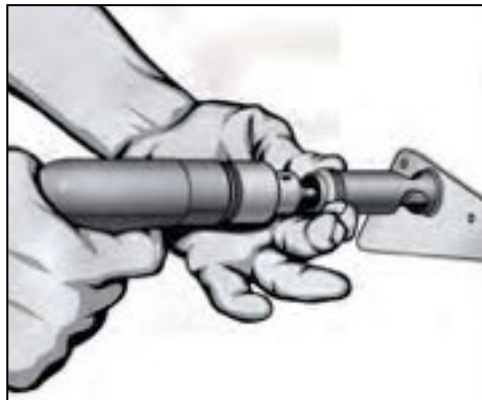
Manufactured of M2 high-speed steel



Two cutting flutes for maximum chip relief; three flutes to eliminate chatter

120-degree seating angle for standard fit

1/4"-28 Threaded male shank



Recognized throughout the industry as the leading producer of quality cutting tools, ATI Tools continues an intensive research program to improve products through advanced design and manufacturing techniques.

The tools contained in this section are made of the finest materials. The cutters are carefully heat-treated, precision ground for correct cutting angles and proper clearance, then thoroughly checked to ensure accurate cutting without chatter. All tools are dipped in a protective plastic coating for shipment and storage.

A variety of microstop countersink units and accessories have been designed to present a versatile selection of tools for all working surfaces and areas. Opportunities to analyze and assist with individual cutting problems are welcomed by ATI's engineering staff.

## Anatomy of a Countersink

A countersink is a tool used to cut and form a hole so that a flush fastener can be installed. The main features of a countersink are the threaded shank, body, cutting angle, and pilot.

### Threaded Shank

The threaded shank is inserted into the microstop shaft and its thread size is specified by the user. Industry standard thread sizes are 10-32, 1/4"-28, 3/8"-24, and 7/16"-20. The most common countersink shanks are 1/4"-28.

### Body

The body of a countersink is typically cylindrical in shape and its diameter is determined by the fastener to be installed.

### Cutting Angle

The cutting angle is determined by the fastener to be installed and is specified by the user. The cutting angle also indicates what the angle of the conically shaped hole will be when the hole is formed. The most common cutting angle is 100 degrees.

### Pilot

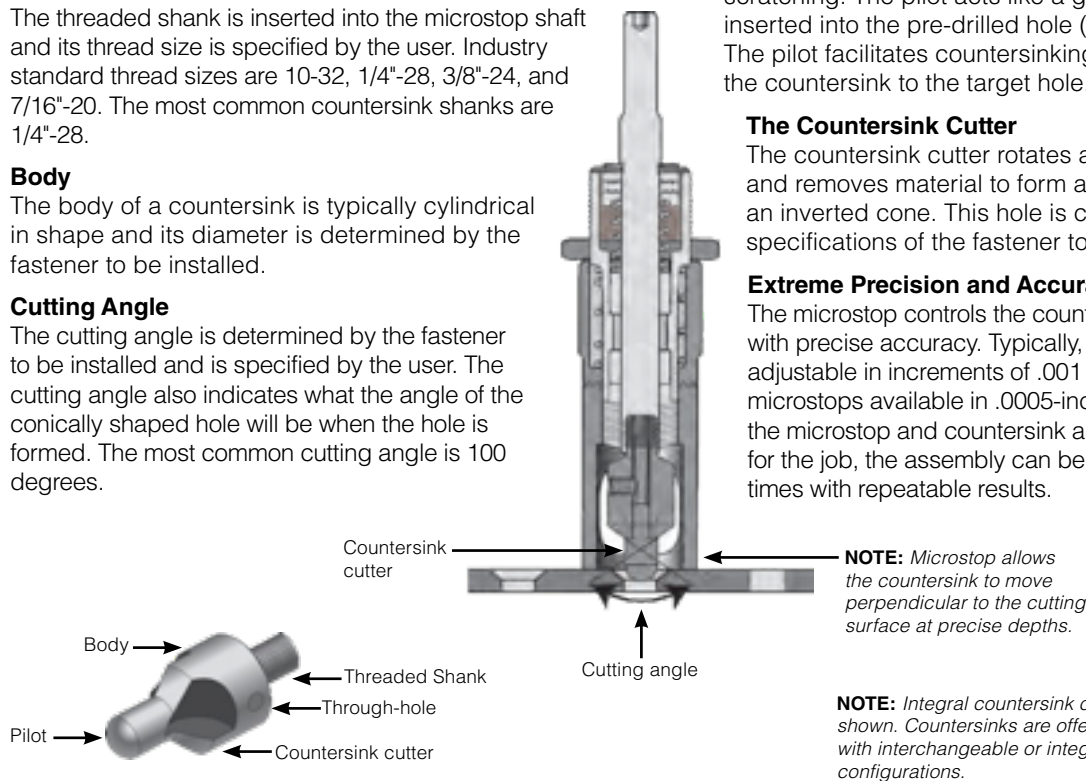
The pilot diameter on a countersink is specified by the user and typically is the same diameter of the pre-drilled hole. It's important for the pilot end to be smooth and to have a hemispherical tip in order to prevent scratching. The pilot acts like a guide when it is inserted into the pre-drilled hole (called the "pilot hole"). The pilot facilitates countersinking by properly aligning the countersink to the target hole.

### The Countersink Cutter

The countersink cutter rotates at a very high speed and removes material to form a hole shaped like an inverted cone. This hole is cut to form the exact specifications of the fastener to be installed.

### Extreme Precision and Accuracy

The microstop controls the countersink's depth with precise accuracy. Typically, the depth of cut is adjustable in increments of .001 inch, with more precise microstops available in .0005-inch increments. Once the microstop and countersink assembly is configured for the job, the assembly can be used hundreds of times with repeatable results.



## What is a Microstop and What Does it Do?

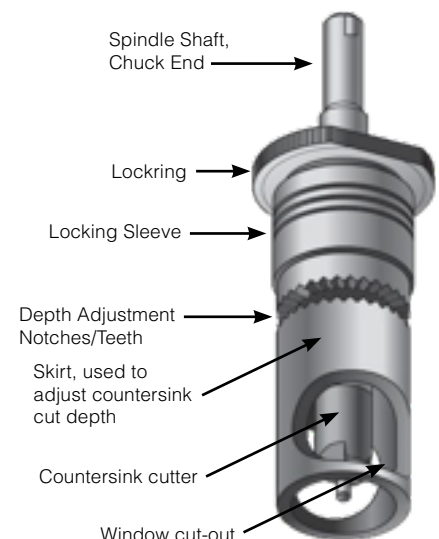
A "microstop" is a cylindrical tool that holds a cutting tool known as a "countersink."

The microstop allows the countersink to move perpendicular to the cutting surface at precise depths. When countersinking, the microstop can make "micro" adjustments up and down, and "stop" the countersink at the exact depth to match the profile of the fastener to be installed. The countersink depth is controlled by rotating the microstop skirt. The adjustments are extremely precise. Rotating the countersink skirt adjusts the countersink depth by only 0.0005 in.

Extreme precision is important when countersinking a hole because it enables the ultimate objective: to ensure that the fastener – typically a flush rivet – fills the countersunk hole completely. Usually a rivet gun is used for installing and deforming the flush rivet into the hole's geometry.

When each countersunk hole is precisely drilled and fasteners are properly installed, every part of the plane's skin has consistent strength and load distribution. The use of a microstop allows for uniformity and helps achieve this goal.

A versatile tool, a microstop works with any type of threaded shank cutter in applications where the depth of cut requires extreme precision. This would include countersinks, counterbores, and hollow cutters, just to name a few.



"Microstop & Countersink Cutter" in advanced position



"Microstop & Countersink Cutter" in retracted position

## CUTTING TOOLS AND MICROSTOPS

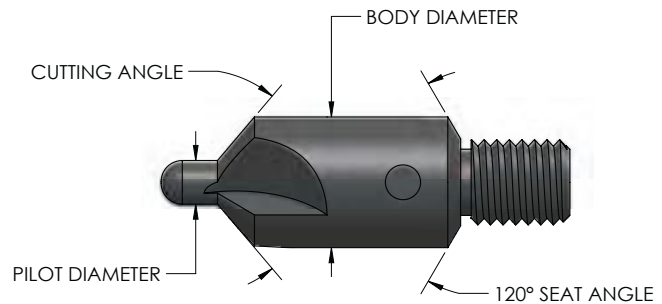
### COUNTERSINK CUTTERS, INTEGRAL PILOT



- Manufactured of M2 high-speed steel or carbide-tipped
- High speed steel countersinks ground on-centers to insure concentricity
- 120-degree seating angle for standard fit
- Use with ATI444 or ATI443 Series microstops

#### HSS COUNTERSINKS, INTEGRAL PILOT, 100 DEGREE, 1/4"-28 THREADS

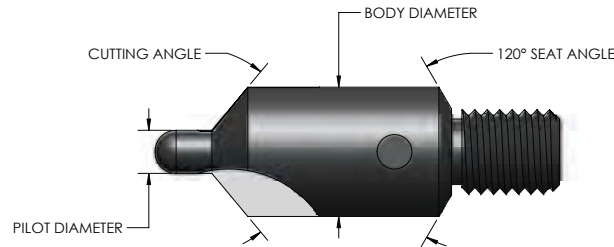
| Pilot Diameter | Decimal Equivalent | Number of Flutes | Body Diameter |              |              |              |
|----------------|--------------------|------------------|---------------|--------------|--------------|--------------|
|                |                    |                  | 3/8"          | 7/16"        | 1/2"         | 5/8"         |
| 3/32"          | .0938              | 2                |               | ATI445D4-532 | ATI445E43/32 |              |
|                |                    | 3                | ATI420C4332   | ATI420D43/32 | ATI420E43/32 |              |
| #41            | .0960              | 2                |               |              |              | ATI445G441N  |
|                |                    | 3                | ATI420C4.096  |              |              |              |
| #40            | .0980              | 2                | ATI445C-4-40  |              | ATI445E440   |              |
|                |                    | 3                | ATI420C440    | ATI420D440   | ATI420E440   |              |
| 1/8"           | .1250              | 2                | ATI445C41/8   |              | ATI445E41/8  |              |
|                |                    | 3                | ATI420C418    | ATI420D41/8  | ATI420E418   |              |
| #30            | .1285              | 2                | ATI445C430    |              | ATI445E430   | ATI445G430   |
|                |                    | 3                | ATI420C430    | ATI420D430   | ATI420E430   |              |
| 9/64"          | .1406              | 2                |               |              | ATI445E4964  |              |
|                |                    | 3                | ATI420C4964   | ATI420D49/64 |              |              |
| #27            | .1440              | 2                | ATI445C427    |              | ATI445E427   |              |
|                |                    | 3                |               | ATI420D427   |              | ATI420G427   |
| 5/32"          | .1563              | 2                |               |              | ATI445E43/32 |              |
|                |                    | 3                | ATI420C45/32  | ATI420D45/32 | ATI420E45/32 |              |
| #21            | .1590              | 2                | ATI445C-4-21  |              | ATI445E421   |              |
|                |                    | 3                | ATI420C421    | ATI420D421   | ATI420E421   |              |
| #20            | .1610              | 2                |               |              | ATI445E420   |              |
|                |                    | 3                | ATI420C420    | ATI420D420   | ATI420E420   |              |
| 11/64          | .1719              | 2                | ATI445C41164  |              |              |              |
|                |                    | 3                | ATI420C41164  | ATI420D41164 |              |              |
| #16            | .1770              | 2                |               |              | ATI445E416   |              |
|                |                    | 3                |               | ATI420D416   | ATI420E4177  | ATI420G416   |
| #13            | .1850              | 2                |               |              | ATI445E413   |              |
|                |                    | 3                | ATI420C413    | ATI420D413   | ATI420E413   | ATI420G413   |
| 3/16"          | .1875              | 2                | ATI445C4-316  |              | ATI445E43/16 |              |
|                |                    | 3                | ATI420C4316   | ATI420D43/16 | ATI420E43/16 | ATI420G43/16 |
| #11            | .1910              | 2                |               |              | ATI445E4-11  |              |
|                |                    | 3                |               | ATI420D411   | ATI420E411   |              |
| #10            | .1935              | 2                | ATI445C-4-10  |              | ATI445E410   |              |
|                |                    | 3                | ATI420C410    | ATI420D410   | ATI420E410   |              |
| #8             | .1990              | 2                |               |              | ATI445E48    |              |
|                |                    | 3                |               |              | ATI420E48    | ATI420G4N8   |
| 7/32"          | .2188              | 2                |               |              | ATI445E47/32 |              |
|                |                    | 3                |               | ATI420D47/32 | ATI420E47/32 |              |
| #2             | .2210              | 2                | ATI445C42N    |              |              |              |
|                |                    | 3                |               |              |              |              |
| 1/4"           | .2500              | 2                |               |              | ATI445E4-1/4 | ATI445G41/4  |
|                |                    | 3                | ATI420C41/4   | ATI420D41/4  | ATI420E41/4  | ATI420G4-1/4 |
| 5/16"          | .3125              | 2                |               |              | ATI445E45/16 | ATI445G45/16 |
|                |                    | 3                | ATI420C45/16  | ATI420D45/16 |              | ATI420G45/16 |
| 11/32"         | .3438              | 2                |               |              | ATI445E41132 |              |
|                |                    | 3                |               |              |              |              |
| 3/8"           | .3750              | 2                |               |              | ATI445E43/8  | ATI445G43/8  |
|                |                    | 3                |               |              |              | ATI420G43/8  |
| 1/2"           | .5000              | 2                |               |              |              | ATI445G41/2  |
|                |                    | 3                |               |              |              |              |



#### HSS COUNTERSINKS, INTEGRAL PILOT, 100 DEGREE, 1/4"-28 THREADS

| Pilot Diameter | Decimal Equivalent | Number of Flutes | BODY DIAMETER |                  |              |
|----------------|--------------------|------------------|---------------|------------------|--------------|
|                |                    |                  | 1/4"          | 1/4" (10-32 THD) | 5/16"        |
| 3/32"          | .0938              | 2                |               | ATI445A4332S     |              |
|                |                    | 3                | ATI420A4332   |                  | ATI420B43/32 |
| #40            | .0980              | 2                | ATI445A4-40N  | ATI445A440S2     |              |
|                |                    | 3                | ATI420A440    |                  |              |
| #30            | .1285              | 2                | ATI445A-4-30  | ATI445A430S2     |              |
|                |                    | 3                |               |                  |              |
| 9/64"          | .1406              | 2                |               |                  |              |
|                |                    | 3                |               |                  | ATI420B49/64 |
| 5/32"          | .1563              | 2                |               |                  |              |
|                |                    | 3                |               |                  | ATI420B45/32 |
|                | .1620              | 2                |               |                  | ATI445B41620 |
|                |                    | 3                |               |                  |              |
| 3/16"          | .1875              | 2                |               |                  |              |
|                |                    | 3                |               |                  | ATI420B43/16 |

Special countersink cutters may be ordered by providing the material, body diameter, pilot diameter, number of flutes, and cutting angle.



### CARBIDE-TIPPED COUNTERSINKS, INTEGRAL PILOT, 2-FLUTE, 100 DEGREE, 1/4"-28 THREADS

| Pilot Diameter | Decimal Equivalent | Body Diameter | Part Number               |
|----------------|--------------------|---------------|---------------------------|
| 3/32"          | .0938              | 1/2"          | ATI445CE4332              |
| #40            | .0980              | 1/4"          | ATI445CTA440 (10-32 THDS) |
|                |                    | 1/2"          | ATI445CE440N              |
| 1/8"           | .1250              | 1/2"          | ATI445CE418               |
| #30            | .1285              | 1/2"          | ATI445CE430               |
| 9/64"          | .1406              | 1/2"          | ATI445CE4964              |
| 5/32"          | .1563              | 1/2"          | ATI445CE4532              |
|                | .1580              | 1/2"          | ATI445CE4158              |
| #21            | .1590              | 3/8"          | ATI445CC421               |
|                |                    | 1/2"          | ATI445CE421               |
| #20            | .1610              | 1/2"          | ATI445CE420N              |
| #19            | .1660              | 7/16"         | ATI445CD419N              |
|                |                    | 1/2"          | ATI445CE419N              |
| #16            | .1770              | 3/8"          | ATI445CC416               |
|                |                    | 1/2"          | ATI445CE416N              |
|                | .1830              | 1/2"          | ATI445CE4183              |
| #13            | .1850              | 1/2"          | ATI445CE413N              |
|                | .1860              | 1/2"          | ATI445CE4186              |
| 3/16"          | .1875              | 1/2"          | ATI445CE4316              |
|                | .1880              | 1/2"          | ATI445CE4188              |
| #11            | .1910              | 1/2"          | ATI445CE411N              |
|                |                    | 1/2"          | ATI445CE4192              |
| #10            | .1935              | 1/2"          | ATI445CE410               |
| #9             | .1960              | 1/2"          | ATI445CE49N               |
| #8             | .1990              | 1/2"          | ATI445CE4199              |

| Pilot Diameter | Decimal Equivalent | Body Diameter | Part Number  |
|----------------|--------------------|---------------|--------------|
| 13/64"         | .2031              | 1/2"          | ATI445CE1364 |
| #3             | .2130              | 1/2"          | ATI445CE43N  |
|                | .2150              | 1/2"          | ATI445CE4215 |
| 7/32"          | .2188              | 1/2"          | ATI445CE4732 |
| #2             | .2210              | 1/2"          | ATI445CE42N  |
|                |                    | 1/2"          | ATI445CE4243 |
| D              | .2460              | 1/2"          | ATI445CE4246 |
|                |                    | 1/2"          | ATI445CE4247 |
|                | .2475              | 1/2"          | ATI445CTESP1 |
|                | .2480              | 1/2"          | ATI445CE4248 |
| 1/4"           | .2500              | 1/2"          | ATI445CTE414 |
|                |                    | 5/8"          | ATI445CG414  |
|                | .2620              | 1/2"          | ATI445CE4262 |
|                | .2780              | 1/2"          | ATI445CE4278 |
| 9/32"          | .2813              | 1/2"          | ATI445CE4932 |
|                | .3090              | 1/2"          | ATI445CE4309 |
|                | .3100              | 1/2"          | ATI445CE4310 |
| 5/16"          | .3125              | 1/2"          | ATI445CE4516 |
|                |                    | 5/8"          | ATI445CG4516 |
|                | .3240              | 1/2"          | ATI445CE4324 |
|                | .3250              | 1/2"          | ATI445CE4325 |
|                | .3400              | 1/2"          | ATI445CE4340 |
|                | .3420              | 1/2"          | ATI445CE4342 |
|                | .3710              | 1/2"          | ATI445CE4371 |
| 3/8"           | .3750              | 1/2"          | ATI445CE438  |

Special countersink cutters may be ordered by providing the material, body diameter, pilot diameter, number of flutes, and cutting angle.

### COUNTERSINK CUTTER SETS WITH ANODIZED HOLDER

| Part Number | Description                                                                                                              |
|-------------|--------------------------------------------------------------------------------------------------------------------------|
| ATI420D-4PC | 4-PC Set Includes: ATI420D43/32, ATI420D41/8, ATI420D45/32, ATI420D43/16                                                 |
| ATI420D-5PC | 5-PC Set Includes: ATI420D43/32, ATI420D41/8, ATI420D45/32, ATI420D43/16, ATI420D41/4                                    |
| ATI420D-9PC | 9-PC Set Includes: ATI420D43/32, ATI420D41/8, ATI420D45/32, ATI420D43/16, ATI420D440, ATI420D430, ATI420D421, ATI420D410 |
| ATI445E-4PC | 4-PC Set Includes: ATI445E43/32, ATI445E41/8, ATI445E45/32, ATI445E43/16                                                 |
| ATI445E-5PC | 5-PC Set Includes: ATI445E43/32, ATI445E41/8, ATI445E45/32, ATI445E43/16, ATI445E41/4                                    |
| ATI445E-9PC | 9-PC Set Includes: ATI445E43/32, ATI445E41/8, ATI445E45/32, ATI445E43/16, ATI445E440, ATI445E430, ATI445E421, ATI445E410 |



ATI420D-4PC

### MICROSTOP/COUNTERSINK CUTTER KIT

#### ATI590CSK

- Provides countersinking versatility
- Includes one ball-bearing, .0005 adjustable depth Microstop for precise, accurate countersinking
- Includes an assortment of popular skirt and nose piece configurations
- Includes nine 1/2" diameter, 100° cutters with pilots of #40, #30, #21, #10, 3/32", 1/8", 5/32", 3/16", and 1/4"

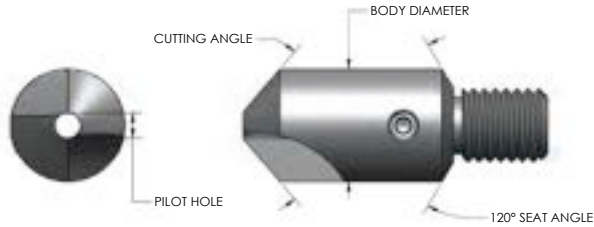


**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## CUTTING TOOLS AND MICROSTOPS REPLACEABLE PILOT COUNTERSINK CUTTERS



### ATI455 SERIES, HIGH SPEED STEEL, 100°, 1/4"-28 THREADED SHANK

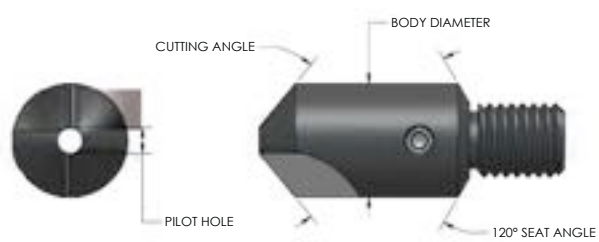


Refer to ATI484 Series and ATI435 series replaceable pilots.

| Part Number | Body Diameter | Pilot Hole Diameter | Number of Flutes |
|-------------|---------------|---------------------|------------------|
| ATI455A-4   | 1/4"          | .086                | 2                |
| ATI455B-4   | 5/16"         | .086                | 2                |
| ATI455C-4   | 3/8"          | .086                | 2                |
| ATI455D-4   | 7/16"         | .086                | 2                |
| ATI455E-4   | 1/2"          | .086                | 2                |
| ATI455F-4   | 9/16"         | .086                | 2                |
| ATI455G-4   | 5/8"          | .086                | 2                |
| ATI455H-4   | 3/4"          | .170                | 2                |
| ATI455J-4   | 7/8"          | .170                | 2                |

Special countersink cutters may be ordered by providing the material, body diameter, pilot hole diameter, and cutting angle.

### ATI455CT SERIES, CARBIDE-TIPPED, 100°, 1/4"-28 THREADED SHANK



Refer to ATI485 Series replaceable pilots.

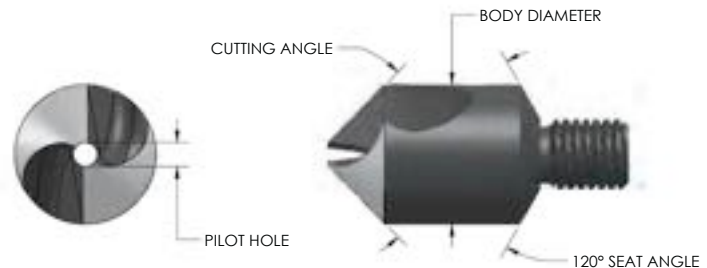
| Part Number | Body Diameter | Pilot Hole Diameter | Number of Flutes |
|-------------|---------------|---------------------|------------------|
| ATI455CTC-4 | 3/8"          | .125                | 2                |
| ATI455CTE-4 | 1/4"          | .125                | 2                |
| ATI455CTG-4 | 5/16"         | .125                | 2                |

## COUNTERSINK CUTTER FOR KEVLAR

### ATI455SK SERIES, 1/4"-28 THREADED SHANK

The Kevlar countersink cutter is designed for use with DuPont Kevlar composites. The unique 'S' shaped positive rake cutting flutes produce fuzz-free countersinks of precision quality in Kevlar.

| Part Number | Body Diameter | Pilot Hole Diameter |
|-------------|---------------|---------------------|
| ATI455SKE-4 | 1/2"          | .086                |
| ATI455SKG-4 | 5/8"          | .086                |

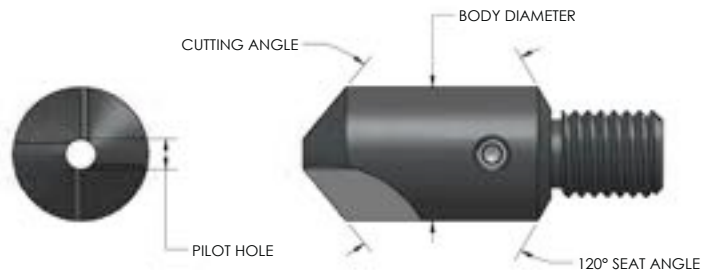


## COUNTERSINK CUTTER, POLYCRYSTALLINE DIAMOND INSERT FOR COMPOSITE MATERIAL

### ATI455PD SERIES, REPLACEABLE PILOT, 100°, 1/4"-28 THREADED SHANK

The ATI455PD Series countersinks excel in cutting highly abrasive, non-ferrous materials where carbide will not perform, such as graphite epoxy composites. Replaceable pilot design allows for economical replacement of damaged pilots and versatility of various pilot diameters with the same cutter.

| Part Number | Body Diameter | Pilot Hole Diameter |
|-------------|---------------|---------------------|
| ATI455PDE-4 | 1/2"          | .125                |
| ATI455PDG4  | 5/8"          | .125                |
| ATI455PDH-4 | 3/4"          | .170                |

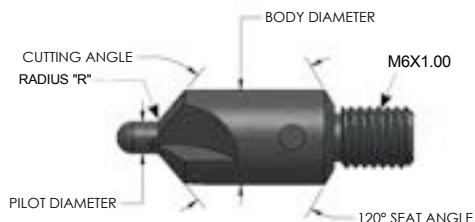




- Manufactured of M42 cobalt steel
- Ground on-centers to insure concentricity
- 120-degree seating angle for standard fit
- Use with ATI444 Series microstops

### ATM6 SERIES

Integral pilot cutter with M6 X 1.00 metric male threaded shank for use with ATI444 Series microstops.



### ATM8 SERIES

Integral pilot cutter with M8 X 1.00 metric male threaded shank for use with ATI444 Series microstops.



## CUTTING TOOLS AND MICROSTOPS

### METRIC COUNTERSINK CUTTERS, INTEGRAL PILOT

#### WHEN ORDERING SPECIFY:

BODY DIAMETER, ANGLE, PILOT DIAMETER, FILLET RADIUS, AND CUTTING FLUTES

ATM6-"D"-"A"-"PILOT DIAMETER"-"R"-2 OR 3 FLUTES

Ex. ATM6104317P2

| Body Diameter | "D"  | C'sink Angle | "A"  | Radius Code | "R"    | Standard Pilot Diameters (MM) |      |
|---------------|------|--------------|------|-------------|--------|-------------------------------|------|
| 6             | 6MM  | 1            | 78°  | P           | .50MM  | 2.38                          | 4.76 |
| 8             | 8MM  | 2            | 82°  | Q           | .75MM  | 2.50                          | 4.80 |
| 10            | 10MM | 3            | 90°  | R           | 1.00MM | 3.17                          | 5.00 |
| 12            | 12MM | 4            | 100° |             |        | 3.50                          | 5.60 |
| 14            | 14MM | 5            | 110° |             |        | 3.96                          | 6.00 |
|               |      | 6            | 115° |             |        | 4.00                          | 6.35 |
|               |      | 7            | 120° |             |        |                               |      |
|               |      | 8            | 130° |             |        |                               |      |

Note: Other pilot sizes available upon request.

#### WHEN ORDERING SPECIFY:

BODY DIAMETER, ANGLE, PILOT DIAMETER, FILLET RADIUS, AND CUTTING FLUTES

ATM8-"D"-"A"-"PILOT DIAMETER"-"R"-2 OR 3 FLUTES

Ex. ATM8144600Q3

| Body Diameter | "D"  | C'sink Angle | "A"  | Radius Code | "R"    | Standard Pilot Diameters (MM) |       |
|---------------|------|--------------|------|-------------|--------|-------------------------------|-------|
| 10            | 10MM | 1            | 78°  | P           | .50MM  | 2.38                          | 4.80  |
| 12            | 12MM | 2            | 82°  | Q           | .75MM  | 2.50                          | 5.00  |
| 14            | 14MM | 3            | 90°  | R           | 1.00MM | 3.17                          | 5.60  |
| 17            | 17MM | 4            | 100° |             |        | 3.50                          | 6.00  |
| 21            | 21MM | 5            | 110° |             |        | 3.96                          | 6.35  |
|               |      | 6            | 115° |             |        | 4.00                          | 8.00  |
|               |      | 7            | 120° |             |        | 4.76                          | 10.00 |
|               |      | 8            | 130° |             |        |                               |       |

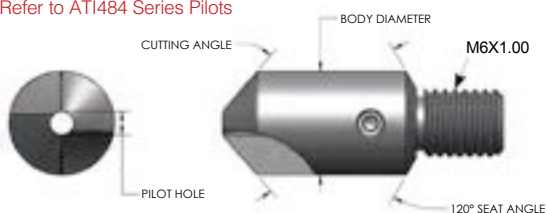
Note: Other pilot sizes available upon request.

## COUNTERSINK CUTTERS, INTERCHANGEABLE PILOT, METRIC

### ATM6IP SERIES

Standard 2 Flute interchangeable pilot cutter with M6 X 1.00 metric male threaded shank and .086 pilot hole for use with ATI444 Series microstops.

Refer to ATI484 Series Pilots



#### WHEN ORDERING SPECIFY: BODY DIAMETER AND ANGLE

ATM6IP-"D"-"A"

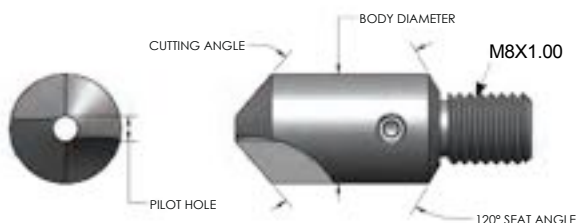
Ex. ATM6IP124

| Body Diameter | "D"  | C'sink Angle | "A"  |
|---------------|------|--------------|------|
| 10            | 10MM | 1            | 78°  |
| 12            | 12MM | 2            | 82°  |
| 14            | 14MM | 3            | 90°  |
| 17            | 17MM | 4            | 100° |
|               |      | 5            | 110° |
|               |      | 6            | 115° |
|               |      | 7            | 120° |
|               |      | 8            | 130° |

### ATM8IP SERIES

Standard 2 Flute interchangeable pilot cutter with M8 X 1.00 metric male threaded shank and .086 pilot hole for use with ATI444 Series microstops.

Refer to ATI484 Series Pilots



#### WHEN ORDERING SPECIFY: BODY DIAMETER AND ANGLE

ATM8IP-"D"-"A"

Ex. ATM8IP144

| Body Diameter | "D"  | C'sink Angle | "A"  |
|---------------|------|--------------|------|
| 10            | 10MM | 1            | 78°  |
| 12            | 12MM | 2            | 82°  |
| 14            | 14MM | 3            | 90°  |
| 17            | 17MM | 4            | 100° |
| 21            | 21MM | 5            | 110° |
|               |      | 6            | 115° |
|               |      | 7            | 120° |
|               |      | 8            | 130° |

\*21MM comes w/ 3 flutes & .170 pilot hole



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## CUTTING TOOLS AND MICROSTOPS

### PILOTS

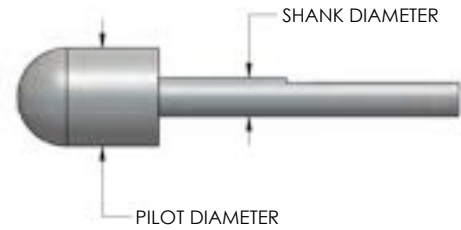
#### ATI484 SERIES

Used with ATI455, ATM6IP, ATM8IP Series cutters

| Part Number | Pilot Diameter | Shank Diameter | Part Number  | Pilot Diameter | Shank Diameter |
|-------------|----------------|----------------|--------------|----------------|----------------|
| ATI484-2    | #40            | .086           | ATI484-2.38M | 2.38MM         | .086           |
| ATI484-12   | #30            | .086           | ATI484-2.50M | 2.50MM         | .086           |
| ATI484-21   | #21            | .086           | ATI484-3.17M | 3.17MM         | .086           |
| ATI484-31   | #11            | .086           | ATI484-3.50M | 3.50MM         | .086           |
| ATI484-32   | #10            | .086           | ATI484-3.96M | 3.96MM         | .086           |
| ATI484-56   | 3/32           | .086           | ATI484-4.00M | 4.00MM         | .086           |
| ATI484-57   | 1/8            | .086           | ATI484-4.76M | 4.76MM         | .086           |
| ATI484-59   | 5/32           | .086           | ATI484-4.80M | 4.80MM         | .086           |
| ATI484-61   | 3/16           | .086           | ATI484-5.00M | 5.00MM         | .086           |
| ATI484-63   | 7/32           | .086           | ATI484-5.60M | 5.60MM         | .086           |
| ATI484-65   | 1/4            | .086           | ATI484-6.00M | 6.00MM         | .086           |

Special size pilot diameters are available upon special request.

These replaceable pilots have a flat on the shank to accommodate cutters with a set screw, and an undercut to permit head-to-seat on cutter angle.



#### ATI485 SERIES

Used with ATI455CT, ATI455PD Series cutters

| Part Number | Pilot Diameter | Shank Diameter |
|-------------|----------------|----------------|
| ATI485-12   | #30            | .125           |
| ATI485-21   | #21            | .125           |
| ATI485-31   | #11            | .125           |
| ATI485-32   | #10            | .125           |
| ATI485-57   | 1/8            | .125           |
| ATI485-59   | 5/32           | .125           |
| ATI485-61   | 3/16           | .125           |
| ATI485-63   | 7/32           | .125           |
| ATI485-65   | 1/4            | .125           |

Special size pilot diameters are available upon special request.

#### ATI435 SERIES

Used with ATI455 Series cutters

| Part Number | Pilot Diameter | Shank Diameter |
|-------------|----------------|----------------|
| ATI435-3/16 | 3/16           | .170           |
| ATI435-1/4  | 1/4            | .170           |
| ATI435-5/16 | 5/16           | .170           |
| ATI435-3/8  | 3/8            | .170           |
| ATI435-1/2  | 1/2            | .170           |

Special size pilot diameters are available upon special request.

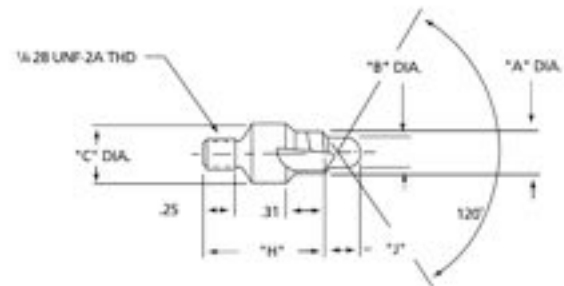
## BRILES® COUNTERSINK CUTTERS

#### ATI438BRC SERIES, 1/4"-28 THREADED SHANK

These high speed steel countersinks feature a unique design that cuts a counterbore and countersink in the same hole. Use these special countersinks to prepare holes for MS14218, Briles® Rivet BRFZ, and Boeing BACR15FV.

| Part Number | "A"   | "B"  | "C"  | "H"  | "J"  |
|-------------|-------|------|------|------|------|
| ATI438BRC3  | .1235 | .096 | .375 | .949 | .180 |
| ATI438BRC-4 | .1625 | .126 | .375 | .952 | .200 |
| ATI438BRC-5 | .2105 | .159 | .375 | .955 | .220 |
| ATI438BRC-6 | .2585 | .191 | .375 | .958 | .250 |
| ATI438BRC-7 | .3125 | .226 | .375 | .962 | .280 |
| ATI438BRC-8 | .3585 | .255 | .500 | .966 | .280 |
| ATI438BRC9  | .4055 | .288 | .500 | .969 | .300 |
| ATI438BRC10 | .4545 | .314 | .500 | .972 | .300 |

Used with ATI444 SERIES microstops.



ATI438BRC-8

## COUNTERSINK CUTTER EXTENSIONS, 1/4"-28 RECESS

| Part Number | Shank Diameter           | Body Diameter | Body Length |
|-------------|--------------------------|---------------|-------------|
| C12780-1-1  | 1/4" Straight            | 1/2"          | 1"          |
| C12780-1-4  | 1/4" Straight            | 1/2"          | 4"          |
| C12780-3-4  | 1/4" Straight            | 7/16"         | 4"          |
| C12780-3-6  | 1/4" Straight            | 7/16"         | 6"          |
| C12780-3-8  | 1/4" Straight            | 7/16"         | 8"          |
| ATI470B1    | 1/4" Straight            | 1/2"          | 4"          |
| ATI470B1F   | 1/4" Straight with Flats | 1/2"          | 4"          |
| ATI470B-2   | 1/4" Straight            | 1/2"          | 6"          |
| ATI470B-2F  | 1/4" Straight with Flats | 1/2"          | 6"          |
| C12780-12-1 | 1/4"-28 Thread           | 3/8"          | 1"          |
| C12780-12-2 | 1/4"-28 Thread           | 3/8"          | 2"          |
| C12780-12-3 | 1/4"-28 Thread           | 3/8"          | 3"          |
| C12780-12-4 | 1/4"-28 Thread           | 3/8"          | 4"          |
| C12780-12-5 | 1/4"-28 Thread           | 3/8"          | 5"          |



ATI470B1



### FOR COUNTERSINK CUTTERS THREADED 1/4"-28, M6 X 1, AND M8 X 1

(Refer to ATI420, ATI438, ATI445, ATI455, ATI463, ATM6, ATM8 countersink cutters)



Microstop - Ball Bearing



Cutaway View



Microstop - Bushing



Cutaway View

### ATI444 MICROSTOPS

- For high volume, accurate countersinking in a production environment
- Full ball bearing shaft support for increased life
- Heavy duty ball thrust bearing ensures depth repeatability
- Fail-safe design accomplished with integrated shoulder on shaft
- Debris filter prevents chips and dust from contaminating bearings
- .0005" depth adjustment, 5/16" shaft travel
- Right-hand threaded lock nut prevents jamming of adjustment mechanism
- Multiple skirt configuration options
- Multiple shaft configuration options

### ATI443 MICROSTOPS

- For lower volume countersinking in maintenance and home-build environments
- Bronze bushing shaft support
- Heavy duty ball thrust bearing ensures depth repeatability
- Fail-safe design accomplished with integrated shoulder on shaft
- Debris filter prevents chips and dust from contaminating bearings
- .0005" depth adjustment, 5/16" shaft travel
- Right-hand threaded lock nut prevents jamming of adjustment mechanism
- Multiple skirt configuration options
- Multiple shaft configuration options

### SKIRTS:



**S (ATI444-S)**

Straight

3/4" Capacity



**C (ATI444-C)**

Close

5/16" Capacity



**H (ATI444-A + ATI444-37NF)**

Nylon Flange Insert

3/4" Capacity



**E (ATI444-E)**

Straight Cutaway

3/4" Capacity



**D (ATI444-D)**

Bell

1" Capacity



**F (ATI444-F)**

Flanged

3/4" Capacity



**W (ATI444-W)**

Flanged Bell

1" Capacity



**F (ATI444-F)**

Flanged Cutaway

3/4" Capacity



**J (ATI444-J)**

.532 OD

.332 Capacity



**B (ATI444-B)**

2-Legged

3/4" Capacity



**K (ATI444-K)**

.600 OD

.400 Capacity



**A (ATI444-A + ATI444-37P)**

Phenolic Insert

3/4" Capacity



**H (ATI444-A + ATI444-37N)**

Nylon Insert

3/4" Capacity

### EXTENDED SKIRTS:

2-3/4" Extension

(Includes extension shaft)



**LA (ATI444-LA)**

10-32 Female Thread

1/4 ID X 3/8 OD

**LB (ATI444-LB)**

1/4-28 Female Thread

5/16 ID X 7/16 OD

**LC (ATI444-LC)**

1/4-28 Female Thread

3/8 ID X 1/2 OD

**LD (ATI444-LD)**

1/4-28 Female Thread

5/8 ID X 3/4 OD

**SHAFTS:** All shafts feature wrenching flats to aid in removal of cutter after use.



**1 (ATI444-1)**

1/4-28 Female Thread

1/4 Round Shank



**2 (ATI444-2)**

1/4-28 Female Thread

3 Chuck Flats Shank



**3 (ATI444-3)**

1/4-28 Female Thread

Quick Change Shank



**4 (ATI444-4)**

M6 Female Thread

1/4 Round Shank



**5 (ATI444-5)**

M6 Female Thread

3 Chuck Flats Shank

**ORDERING:** Choose either ATI444 or ATI443, Skirt Option, and Shaft Option.

| Part Number   | MODEL / SKIRT / SHAFT |
|---------------|-----------------------|
| Ex. ATI444G2  | ATI444 + G + 2        |
| Ex. ATI444LA4 | ATI444 + LA + 4       |
| Ex. ATI443S1  | ATI443 + S + 1        |
| Ex. ATI443A2  | ATI443 + A + 2        |

### INSERT CHART

| Part Number | O.D. | I.D. | Material |                                               |
|-------------|------|------|----------|-----------------------------------------------|
| ATI444-37P  | .960 | .775 | Phenolic | Used with ATI444A Series Microstop            |
| ATI444-37N  | .960 | .775 | Nylon    | Used with ATI444A or ATI444N Series Microstop |
| ATI444-37NF | 1.25 | .775 | Nylon    | Used with ATI444A or ATI444H Series Microstop |



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## CUTTING TOOLS AND MICROSTOPS

### MICROSTOP COUNTERSINK CAGES

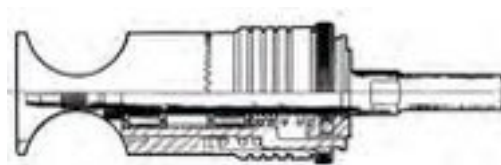


#### MICROSTOP FOR FEMALE-THREADED COUNTERSINK CUTTERS

Refer to ATI418 series cutters and ATI416 series pilots

##### ATI442S1

Uses 1/4"-28 threaded shaft which is split and tapered to lock replaceable pilot securely when cutter is tightened.



#### MICROSTOP COUNTERSINK CAGES, SWIVEL SHAFT

##### ATI2351 SERIES

The swivel shaft design enables you to countersink with up to a 5 degree off angle between the spindle and cutter axis. Designed for use on all standard materials as well as the latest composite materials in the most demanding applications. Ball and thrust bearings for continuous high speed use and .0005 adjustable depth control. Available with 1/4"-28 or metric threads; standard or flanged skirts, optional nylon inserts.

| Part Number | Description                                 |
|-------------|---------------------------------------------|
| ATI2351S1   | Standard Skirt, 1/4"-28 Shaft               |
| ATI2351S4   | Standard Skirt, M6 Shaft                    |
| ATI2351N1   | Standard Skirt, 1/4"-28 Shaft, Nylon Insert |
| ATI2351N4   | Standard Skirt, M6 Shaft, Nylon Insert      |
| ATI2351F1   | Flanged Skirt, 1/4"-28 Shaft                |
| ATI2351F4   | Flanged Skirt, M6 Shaft                     |
| ATI2351H1   | Flanged Skirt, 1/4"-28 Shaft, Nylon Insert  |
| ATI2351H4   | Flanged Skirt, M6 Shaft, Nylon Insert       |



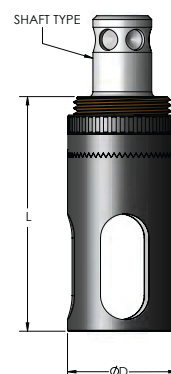
#### MICROSTOP COUNTERSINK CAGES, STUBBY

Designed for close quarter or tight access applications

##### ATI448 SERIES

- 3/32" Shaft Travel
- .0005 Adjustable Depth Control

| Part Number | D    | L     | Shaft   | Max. Cutter Diameter |
|-------------|------|-------|---------|----------------------|
| ATI448S1    | .560 | 1.22" | 1/4"-28 | 1/2"                 |
| ATI448S3    | .560 | 1.22" | QC      | 1/2"                 |



\*image shown is with quick-change shaft

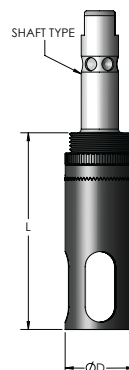
#### MICROSTOP COUNTERSINK CAGES, MIDGET

Designed for close quarter or tight access applications

##### ATI449 SERIES

- 9/32" Shaft Travel
- .0005 Adjustable Depth Control

| Part Number | D    | L     | Shaft | Max. Cutter Diameter |
|-------------|------|-------|-------|----------------------|
| ATI449S2    | .560 | 1.62" | 1/4"  | 1/2"                 |
| ATI449S3    | .560 | 1.62" | QC    | 1/2"                 |

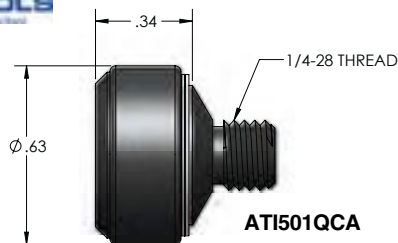


\*image shown is with quick-change shaft

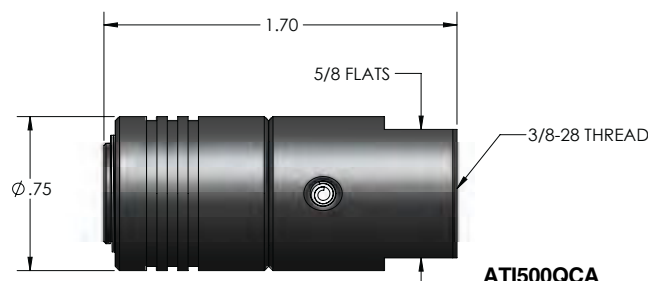




## CUTTING TOOLS AND MICROSTOPS QUICK-CHANGE CHUCKS



| Part Number | Type     | Description                                                                  |
|-------------|----------|------------------------------------------------------------------------------|
| ATI501QCA   | STUBBY   | Designed to fit any standard angle drill with 1/4"-28 threaded spindle       |
| ATI500QCA   | STANDARD | Designed to fit any standard drill motor with 3/8"-24 threaded chuck spindle |



## JUMBO SIZE MICROSTOPS

### FOR COUNTERSINK CUTTERS THREADED 3/8"-24 and 7/16"-20 (Refer to ATI445 and ATI455 series countersink cutters)

- For production environment countersinking of larger sized holes
- Fail-safe design accomplished with integrated shoulder on shaft
- All shafts feature wrenching flats to aid in removal of cutter after use
- 3/4" shaft travel
- Ball thrust bearing ensures depth repeatability



| Part Number  | Shaft Thread    | Shaft Support  | Adjustment Increment | Cutter Capacity | Shank         | OAL |
|--------------|-----------------|----------------|----------------------|-----------------|---------------|-----|
| ATI432A      | 7/16"-20 Female | Bronze Bushing | .001                 | 1-1/4"          | 3/8" Round    | 7"  |
| ATI432B      | 3/8"-24 Female  | Bronze Bushing | .001                 | 1-1/4"          | 3/8" Round    | 7"  |
| ATI462       | 3/8"-24 Female  | Bronze Bushing | .003                 | 7/8"            | 3/8" Round    | 5"  |
| ATI462H3-1.3 | 3/8"-24 Female  | Ball Bearing   | .0005                | 1-1/4"          | 3 Chuck Flats | 5"  |
| ATI462H3-1.5 | 3/8"-24 Female  | Ball Bearing   | .0005                | 1-3/8"          | 3 Chuck Flats | 5"  |
| ATI462H7-1.3 | 7/16"-20 Female | Ball Bearing   | .0005                | 1-1/4"          | 3 Chuck Flats | 5"  |
| ATI462H7-1.5 | 7/16"-20 Female | Ball Bearing   | .0005                | 1-3/8"          | 3 Chuck Flats | 5"  |

## ELLIPTICAL FASTENER COUNTERSINK CUTTER KIT

### ATI2200CSK

This kit provides countersinking capabilities for the installation of the NAS1734 or NAS1735 elliptical head blind nuts, for fasteners -3 (#10) thru -8 (1/2") hole preparation in accordance with NAS1736. Use with common hand-held drill motors.

Kit includes two microstops with stabilizing rockers and four cobalt cutters.

| Qty | Part Number | Description                                                                                                                                   |
|-----|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | ATISK2260   | Microstop with wobble skirt and arm assembly, 1/4"-28 threaded shank, 1/2" maximum cutter diameter for fasteners #10, 1/4", and 5/16".        |
| 1   | ATISK2266   | Jumbo Microstop with wobble skirt and arm assembly, 3/8"-24 threaded shank, 3/4" maximum cutter diameter for fasteners 3/8", 7/16", and 1/2". |
| 1   | C15374-3    | Elliptical nut countersink assembly, #10                                                                                                      |
| 1   | C15374-4    | Elliptical nut countersink assembly, 1/4"                                                                                                     |
| 1   | C15374-5    | Elliptical nut countersink assembly, 5/16"                                                                                                    |
| 1   | C15374-6    | Elliptical nut countersink assembly, 3/8"                                                                                                     |

Other elliptical nut countersink assemblies available upon special request.



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## CUTTING TOOLS AND MICROSTOPS

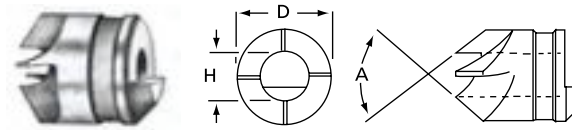
### BACK COUNTERSINK CUTTERS



#### ATI402 SERIES

Used in restricted areas where direct countersinking is not possible.  
A four-flute, one piece unit used with ATI404 Series Pilot

| Part Number | Body Diameter | Pilot Hole | Angle |
|-------------|---------------|------------|-------|
| ATI402A-4   | 1/4"          | 1/8"       | 100°  |
| ATI402B-4   | 1/4"          | 3/32"      | 100°  |
| ATI402C-4   | 5/16"         | 1/8"       | 100°  |
| ATI402D-4   | 5/16"         | 5/32"      | 100°  |
| ATI402E-4   | 3/8"          | 3/16"      | 100°  |
| ATI402F-4   | 3/8"          | 5/32"      | 100°  |
| ATI402G-4   | 7/16"         | 3/16"      | 100°  |
| ATI402H-4   | 7/16"         | 5/32"      | 100°  |
| ATI402I-4   | 1/2"          | 3/16"      | 100°  |
| ATI402J-4   | 1/2"          | 1/4"       | 100°  |
| ATI402K-4   | 9/16"         | 3/16"      | 100°  |
| ATI402L-4   | 9/16"         | 1/4"       | 100°  |
| ATI402M-4   | 5/8"          | 1/4"       | 100°  |
| ATI402N-4   | 5/8"          | 5/16"      | 100°  |
| ATI402O-4   | 11/16"        | 1/4"       | 100°  |
| ATI402P-4   | 11/16"        | 5/16"      | 100°  |
| ATI402Q-4   | 3/4"          | 1/4"       | 100°  |
| ATI402R-4   | 3/4"          | 5/16"      | 100°  |
| ATI402S-4   | 7/8"          | 5/16"      | 100°  |
| ATI402T-4   | 7/8"          | 3/8"       | 100°  |
| ATI402U-4   | 1"            | 5/16"      | 100°  |
| ATI402V-4   | 1"            | 3/8"       | 100°  |
| ATI402W-4   | 1-1/4"        | 3/8"       | 100°  |
| ATI402X-4   | 1-1/4"        | 1/2"       | 100°  |



#### ATI590TA BACK COUNTERSINK KIT

Compact kit for shop or field service requirement.  
Contains 8 cutters and 8 gunlock pilots.

| Part No.  | QTY | Part No. | QTY |
|-----------|-----|----------|-----|
| ATI402B-4 | 1   | ATI404-1 | 1   |
| ATI402C-4 | 1   | ATI404-2 | 1   |
| ATI402F-4 | 1   | ATI404-3 | 1   |
| ATI402I-4 | 1   | ATI4044  | 1   |
| ATI402Q-4 | 1   | ATI4045  | 1   |
| ATI402S-4 | 1   | ATI404-6 | 1   |
| ATI402V-4 | 1   | ATI404-7 | 1   |
| ATI402X-4 | 1   | ATI404-8 | 1   |

## BACK SPOTFACER CUTTERS

#### ATI403 SERIES

For reverse spotfacing and counterboring in confined areas where one piece straight shank tools cannot be used. Designed with four cutting edges with .030R corner radii. Used with ATI404 Series Pilots.

| Part Number | Body Diameter | Pilot Hole |
|-------------|---------------|------------|
| ATI403A     | 1/4"          | 1/8"       |
| ATI403B     | 1/4"          | 3/32"      |
| ATI403C     | 5/16"         | 1/8"       |
| ATI403D     | 5/16"         | 5/32"      |
| ATI403E     | 3/8"          | 3/16"      |
| ATI403F     | 3/8"          | 5/32"      |
| ATI403G     | 7/16"         | 3/16"      |
| ATI403H     | 7/16"         | 5/32"      |
| ATI403I     | 1/2"          | 3/16"      |
| ATI403J     | 1/2"          | 1/4"       |
| ATI403K     | 9/16"         | 3/16"      |
| ATI403L     | 9/16"         | 1/4"       |
| ATI403M     | 5/8"          | 1/4"       |
| ATI403N     | 5/8"          | 5/16"      |
| ATI403O     | 11/16"        | 1/4"       |
| ATI403P     | 11/16"        | 5/16"      |
| ATI403Q     | 3/4"          | 1/4"       |
| ATI403R     | 3/4"          | 5/16"      |

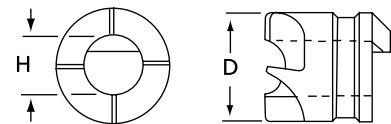
|         |        |       |
|---------|--------|-------|
| ATI403S | 7/8"   | 5/16" |
| ATI403T | 7/8"   | 3/8"  |
| ATI403U | 1"     | 5/16" |
| ATI403V | 1"     | 3/8"  |
| ATI403W | 1-1/4" | 3/8"  |
| ATI403X | 1-1/4" | 1/2"  |

Note: Other radii available upon special order

#### ATI590S BACK SPOTFACER KIT

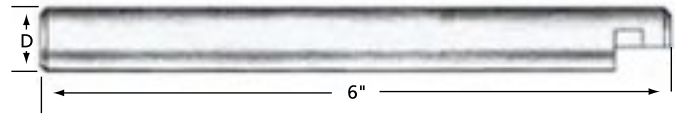
Compact kit for shop or field service requirement.  
Contains 8 cutters and 8 gunlock pilots.

| Part No. | QTY | Part No. | QTY |
|----------|-----|----------|-----|
| ATI403A  | 1   | ATI404-1 | 1   |
| ATI403C  | 1   | ATI404-2 | 1   |
| ATI403F  | 1   | ATI404-3 | 1   |
| ATI403I  | 1   | ATI4044  | 1   |
| ATI403M  | 1   | ATI4045  | 1   |
| ATI403R  | 1   | ATI404-6 | 1   |
| ATI403V  | 1   | ATI404-7 | 1   |
| ATI403X  | 1   | ATI404-8 | 1   |



### ATI404 SERIES

| Part Number | Description                         | D    |
|-------------|-------------------------------------|------|
| ATI404-1    | Pilot, Bayonet Locking Type, 6" OAL | 3/32 |
| ATI404-2    | Pilot, Bayonet Locking Type, 6" OAL | 1/8  |
| ATI404-3    | Pilot, Bayonet Locking Type, 6" OAL | 5/32 |
| ATI4044     | Pilot, Bayonet Locking Type, 6" OAL | 3/16 |
| ATI4045     | Pilot, Bayonet Locking Type, 6" OAL | 1/4  |
| ATI404-6    | Pilot, Bayonet Locking Type, 6" OAL | 5/16 |
| ATI404-7    | Pilot, Bayonet Locking Type, 6" OAL | 3/8  |
| ATI404-8    | Pilot, Bayonet Locking Type, 6" OAL | 1/2  |

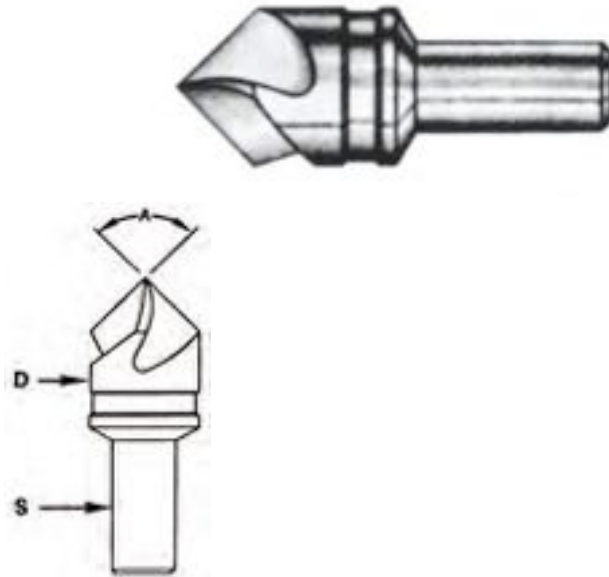


### STRAIGHT SHANK COUNTERSINK CUTTER

### ATI408 SERIES

Specifically designed for countersinking. This cutter has three straight flutes accurately sharpened to prevent chatter.

| Part Number | D    | S    | Angle |
|-------------|------|------|-------|
| ATI408A-2   | 1/4  | 3/16 | 82°   |
| ATI408A-4   | 1/4  | 3/16 | 100°  |
| ATI408B-2   | 5/16 | 1/4  | 82°   |
| ATI408B-4   | 5/16 | 1/4  | 100°  |
| ATI408C-2   | 3/8  | 1/4  | 82°   |
| ATI408C-4   | 3/8  | 1/4  | 100°  |
| ATI408D-2   | 7/16 | 1/4  | 82°   |
| ATI408D-4   | 7/16 | 1/4  | 100°  |
| ATI408E-2   | 1/2  | 1/4  | 82°   |
| ATI408E-4   | 1/2  | 1/4  | 100°  |
| ATI408F-2   | 5/8  | 3/8  | 82°   |
| ATI408F-4   | 5/8  | 3/8  | 100°  |
| ATI408G-2   | 3/4  | 3/8  | 82°   |
| ATI408G-4   | 3/4  | 3/8  | 100°  |
| ATI408H-2   | 1    | 3/8  | 82°   |
| ATI408H-4   | 1    | 3/8  | 100°  |



### 6-FLUTE COUNTERSINK CUTTER, STRAIGHT SHANK

| Part Number  | Body Diameter | Shank Diameter | Angle |
|--------------|---------------|----------------|-------|
| ATI408AZ6F3  | 1/4           | 3/16           | 90°   |
| ATI408AZ6F4  | 1/4           | 3/16           | 100°  |
| ATI408CA6F0  | 3/8           | 1/4            | 60°   |
| ATI408CA6F4  | 3/8           | 1/4            | 100°  |
| ATI408CB6F0  | 3/8           | 5/16           | 60°   |
| ATI408EC6F4  | 1/2           | 3/8            | 100°  |
| ATI408FC6F-4 | 9/16          | 3/8            | 100°  |
| ATI408GC6F0  | 5/8           | 3/8            | 60°   |
| ATI408GC6F3  | 5/8           | 3/8            | 90°   |
| ATI408GC6F4  | 5/8           | 3/8            | 100°  |



## CUTTING TOOLS AND MICROSTOPS

### STOP COUNTERSINK CUTTERS



#### ATI418 SERIES, 1/4"-28 THREADS

Used with ATI442S1 microstop

Three straight flute replaceable pilot cutters with female thread. These cutters are designed with extra deep flute to permit resharpener and radial clearance to assure fast smooth cutting. Other cutter angles available upon special request.



| Part Number | Cutter Diameter | Pilot Hole | Angle |
|-------------|-----------------|------------|-------|
| ATI418A-4   | 1/4             | .086       | 100°  |
| ATI418B-4   | 5/16            | .086       | 100°  |
| ATI418C-4   | 3/8             | .086       | 100°  |
| ATI418D-4   | 7/16            | .086       | 100°  |
| ATI418E4    | 1/2             | .086       | 100°  |
| ATI418F4    | 9/16            | .086       | 100°  |
| ATI418G4    | 5/8             | .086       | 100°  |

For replaceable pilots, refer to ATI416 Series.

## PILOTS

#### ATI416 SERIES

To maintain concentricity and prevent breakage, an undercut is provided to permit head-to-seat on cutter angle.



| Part Number | D    | ATI416-57 | 1/8  |
|-------------|------|-----------|------|
| ATI416-2    | #40  | ATI416-59 | 5/32 |
| ATI416-12   | #30  | ATI416-61 | 3/16 |
| ATI416-21   | #21  | ATI416-63 | 7/32 |
| ATI416-31   | #11  | ATI416-65 | 1/4  |
| ATI416-32   | #10  | ATI416-69 | 5/16 |
| ATI416-56   | 3/32 |           |      |

Used with ATI418 Series cutter.

## CHATTERLESS COUNTERSINK CUTTER

#### ATI463 SERIES, 1/4"-28 THREADS

These precision cutters are the ultimate in chatterless countersinking. The minimum cutter diameter has been calculated to eliminate skin damage and the undercut on the flutes provides ease in chip removal. Made of M42 material for stainless steel or titanium.

| Part Number  | Body Diameter | Pilot Diameter | Angle | AN426 Rivet Size Ref. |
|--------------|---------------|----------------|-------|-----------------------|
| ATI463145065 | .145          | .065           | 100°  | 1/16                  |
| ATI463210096 | .210          | .096           | 100°  | 3/32                  |
| ATI463256126 | .256          | .1265          | 100°  | 1/8                   |
| ATI463317157 | .317          | .157           | 100°  | 5/32                  |
| ATI463385191 | .385          | .1915          | 100°  | 3/16                  |
| ATI463507247 | .507          | .247           | 100°  | 1/4                   |
| ATI463595309 | .595          | .309           | 100°  | 5/16                  |

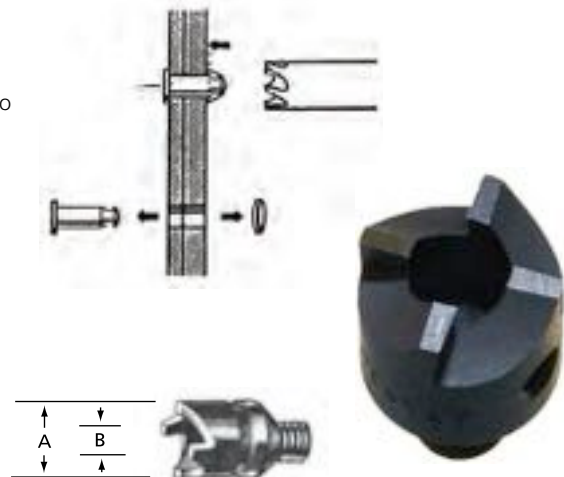


## HOLLOW CUTTERS

#### ATI493 SERIES, 1/4"-28 THREADED SHANK FOR REMOVING HUCK AND HI-SHEAR FASTENERS

These cutters are designed to fit standard microstops to control their cutting depth. Used to cut away the swaged collar from the fastener so the pin can be easily removed.

| Part Number | Dimension "A" | Dimension "B" | Shank  | Fastener Type  | Size |
|-------------|---------------|---------------|--------|----------------|------|
| ATI493C-0   | .365          | .124          | 1/4-28 | HI-SHEAR       | 1/8  |
| ATI493C-00  | .365          | .157          | 1/4-28 | HI-SHEAR       | 5/32 |
| ATI493C-1   | .438          | .188          | 1/4-28 | HI-SHEAR       | 3/16 |
| ATI493C-2   | .500          | .247          | 1/4-28 | HI-SHEAR       | 1/4  |
| ATI493C-3   | .562          | .310          | 1/4-28 | HI-SHEAR       | 5/16 |
| ATI493D-1   | .323          | .188          | 1/4-28 | HUCK LOCK BOLT | L6   |
| ATI493D-3   | .413          | .250          | 1/4-28 | HUCK LOCK BOLT | L8   |





## CUTTING TOOLS AND MICROSTOPS HOLE SAWS

- ATI precision hole saws are manufactured from high-speed tool steel
- Hole saws are heat-treated and ground to precise tolerances
- Hole saw design allows for resharpener of tool
- Use with ATI415 Hole Saw Arbors

### FINE TOOTH SERIES

For cutting thin skins and corrugations in aluminum, steel, and other non-ferrous material. The hole saw can be resharpener many times and is designed for use in a portable power unit or in standard machine tools.



ATI413 SERIES

| Part Number | Diameter | Thread  |
|-------------|----------|---------|
| ATI413-1    | 3/8      | 5/16-24 |
| ATI413-1X   | 13/32    | 5/16-24 |
| ATI413-2    | 7/16     | 5/16-24 |
| ATI4132X    | 15/32    | 5/16-24 |
| ATI413-3    | 1/2      | 5/16-24 |
| ATI413-3X   | 17/32    | 5/16-24 |
| ATI413-4    | 9/16     | 5/16-24 |
| ATI413-4X   | 19/32    | 5/16-24 |
| ATI413-5    | 5/8      | 5/16-24 |
| ATI4135X    | 21/32    | 5/16-24 |
| ATI4136     | 11/16    | 5/16-24 |
| ATI413-6X   | 23/32    | 5/16-24 |
| ATI413-7    | 3/4      | 5/16-24 |
| ATI4137X    | 25/32    | 5/16-24 |
| ATI413-8    | 13/16    | 5/16-24 |
| ATI413-8X   | 27/32    | 5/16-24 |
| ATI413-9    | 7/8      | 5/16-24 |
| ATI4139X    | 29/32    | 5/16-24 |
| ATI41310    | 15/16    | 5/16-24 |
| ATI41310X   | 31/32    | 5/16-24 |
| ATI413-11   | 1        | 5/16-24 |
| ATI413-11X  | 1-1/32   | 5/16-24 |
| ATI413-12   | 1-1/16   | 5/16-24 |
| ATI413-12X  | 1-3/32   | 5/16-24 |
| ATI413-13   | 1-1/8    | 5/16-24 |
| ATI413-13X  | 1-5/32   | 5/16-24 |
| ATI413-14   | 1-3/16   | 5/16-24 |
| ATI413-14X  | 1-7/32   | 5/16-24 |
| ATI413-15   | 1-1/4    | 5/16-24 |
| ATI413-15X  | 1-9/32   | 5/16-24 |
| ATI413-16   | 1-5/16   | 5/16-24 |
| ATI413-16X  | 1-11/32  | 5/16-24 |
| ATI41317    | 1-3/8    | 5/16-24 |
| ATI413-17X  | 1-13/32  | 5/16-24 |
| ATI413-18   | 1-7/16   | 5/16-24 |
| ATI413-18X  | 1-15/32  | 5/16-24 |
| ATI41319    | 1-1/2    | 1/2-20  |
| ATI413-19X  | 1-17/32  | 1/2-20  |
| ATI413-20   | 1-9/16   | 1/2-20  |
| ATI413-20X  | 1-19/32  | 1/2-20  |
| ATI413-21   | 1-5/8    | 1/2-20  |
| ATI413-21X  | 1-21/32  | 1/2-20  |
| ATI413-22   | 1-11/16  | 1/2-20  |
| ATI413-22X  | 1-23/32  | 1/2-20  |

| Part Number | Diameter | Thread |
|-------------|----------|--------|
| ATI41323    | 1-3/4    | 1/2-20 |
| ATI413-23X  | 1-25/32  | 1/2-20 |
| ATI41324    | 1-13/16  | 1/2-20 |
| ATI413-24X  | 1-27/32  | 1/2-20 |
| ATI413-25   | 1-7/8    | 1/2-20 |
| ATI413-25X  | 1-29/32  | 1/2-20 |
| ATI413-26   | 1-15/16  | 1/2-20 |
| ATI413-26X  | 1-31/32  | 1/2-20 |
| ATI413-27   | 2        | 1/2-20 |
| ATI413-27X  | 2-1/32   | 1/2-20 |
| ATI413-28   | 2-1/16   | 1/2-20 |
| ATI413-28X  | 2-3/32   | 1/2-20 |
| ATI413-29   | 2-1/8    | 1/2-20 |
| ATI413-29X  | 2-5/32   | 1/2-20 |
| ATI41330    | 2-3/16   | 1/2-20 |
| ATI413-30X  | 2-7/32   | 1/2-20 |
| ATI413-31   | 2-1/4    | 1/2-20 |
| ATI413-31X  | 2-9/32   | 1/2-20 |
| ATI413-32   | 2-5/16   | 1/2-20 |
| ATI413-32X  | 2-11/32  | 1/2-20 |
| ATI413-33   | 2-3/8    | 1/2-20 |
| ATI413-33X  | 2-13/32  | 1/2-20 |
| ATI413-34   | 2-7/16   | 1/2-20 |
| ATI413-34X  | 2-15/32  | 1/2-20 |
| ATI413-35   | 2-1/2    | 1/2-20 |
| ATI413-35X  | 2-17/32  | 1/2-20 |
| ATI413-36   | 2-9/16   | 1/2-20 |
| ATI413-36X  | 2-19/32  | 1/2-20 |
| ATI413-37   | 2-5/8    | 1/2-20 |
| ATI413-37X  | 2-21/32  | 1/2-20 |
| ATI413-38   | 2-11/16  | 1/2-20 |
| ATI413-38X  | 2-23/32  | 1/2-20 |
| ATI413-39   | 2-3/4    | 1/2-20 |
| ATI413-39X  | 2-25/32  | 1/2-20 |
| ATI413-40   | 2-13/16  | 1/2-20 |
| ATI413-40X  | 2-27/32  | 1/2-20 |
| ATI413-41   | 2-7/8    | 1/2-20 |
| ATI413-41X  | 2-29/32  | 1/2-20 |
| ATI413-42   | 2-15/16  | 1/2-20 |
| ATI413-42X  | 2-31/32  | 1/2-20 |
| ATI413-43   | 3        | 1/2-20 |
| ATI413-43X  | 3-1/32   | 1/2-20 |
| ATI413-44   | 3-1/16   | 1/2-20 |
| ATI413-44X  | 3-3/32   | 1/2-20 |

| Part Number | Diameter | Thread |
|-------------|----------|--------|
| ATI413-45   | 3-1/8    | 1/2-20 |
| ATI413-45X  | 3-5/32   | 1/2-20 |
| ATI413-46   | 3-3/16   | 1/2-20 |
| ATI413-46X  | 3-7/32   | 1/2-20 |
| ATI413-47   | 3-1/4    | 1/2-20 |
| ATI413-47X  | 3-9/32   | 1/2-20 |
| ATI413-48   | 3-5/16   | 1/2-20 |
| ATI413-48X  | 3-11/32  | 1/2-20 |
| ATI413-49   | 3-3/8    | 1/2-20 |
| ATI413-49X  | 3-13/32  | 1/2-20 |
| ATI413-50   | 3-7/16   | 1/2-20 |
| ATI413-50X  | 3-15/32  | 1/2-20 |
| ATI413-51   | 3-1/2    | 1/2-20 |
| ATI413-51X  | 3-17/32  | 1/2-20 |
| ATI413-52   | 3-9/16   | 1/2-20 |
| ATI413-52X  | 3-19/32  | 1/2-20 |
| ATI413-53   | 3-5/8    | 1/2-20 |
| ATI413-53X  | 3-21/32  | 1/2-20 |
| ATI413-54   | 3-11/16  | 1/2-20 |
| ATI413-54X  | 3-23/32  | 1/2-20 |
| ATI413-55   | 3-3/4    | 1/2-20 |
| ATI413-55X  | 3-25/32  | 1/2-20 |
| ATI41356    | 3-13/16  | 1/2-20 |
| ATI413-56X  | 3-27/32  | 1/2-20 |
| ATI413-57   | 3-7/8    | 1/2-20 |
| ATI413-57X  | 3-29/32  | 1/2-20 |
| ATI413-58   | 3-15/16  | 1/2-20 |
| ATI413-58X  | 3-31/32  | 1/2-20 |
| ATI413-59   | 4        | 1/2-20 |



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## CUTTING TOOLS AND MICROSTOPS

### HOLE SAWS

#### COARSE TOOTH SERIES

This tooth configuration is designed to effect fast cutting of aluminum and steel. When the correct speed and feed is used, this hole saw will cut close tolerance holes even in Titanium.



**ATI474 SERIES**

| Part Number | Diameter | Thread  |
|-------------|----------|---------|
| ATI474-1    | 3/8      | 5/16-24 |
| ATI474-1X   | 13/32    | 5/16-24 |
| ATI474-2    | 7/16     | 5/16-24 |
| ATI474-2X   | 15/32    | 5/16-24 |
| ATI474-3    | 1/2      | 5/16-24 |
| ATI4743X    | 17/32    | 5/16-24 |
| ATI474-4    | 9/16     | 5/16-24 |
| ATI474-4X   | 19/32    | 5/16-24 |
| ATI474-5    | 5/8      | 5/16-24 |
| ATI474-5X   | 21/32    | 5/16-24 |
| ATI474-6    | 11/16    | 5/16-24 |
| ATI4746X    | 23/32    | 5/16-24 |
| ATI474-7    | 3/4      | 5/16-24 |
| ATI474-7X   | 25/32    | 5/16-24 |
| ATI474-8    | 13/16    | 5/16-24 |
| ATI474-8X   | 27/32    | 5/16-24 |
| ATI474-9    | 7/8      | 5/16-24 |
| ATI4749X    | 29/32    | 5/16-24 |
| ATI474-10   | 15/16    | 5/16-24 |
| ATI474-10X  | 31/32    | 5/16-24 |
| ATI474-11   | 1        | 5/16-24 |
| ATI47411X   | 1-1/32   | 5/16-24 |
| ATI474-12   | 1-1/16   | 5/16-24 |
| ATI47412X   | 1-3/32   | 5/16-24 |
| ATI474-13   | 1-1/8    | 5/16-24 |
| ATI47413X   | 1-5/32   | 5/16-24 |
| ATI474-14   | 1-3/16   | 5/16-24 |
| ATI47414X   | 1-7/32   | 5/16-24 |
| ATI474-15   | 1-1/4    | 5/16-24 |
| ATI47415X   | 1-9/32   | 1/2-20  |
| ATI474-16   | 1-5/16   | 1/2-20  |
| ATI47416X   | 1-11/32  | 1/2-20  |
| ATI474-17   | 1-3/8    | 1/2-20  |
| ATI474-17X  | 1-13/32  | 1/2-20  |
| ATI474-18   | 1-7/16   | 1/2-20  |
| ATI474-18X  | 1-15/32  | 1/2-20  |
| ATI474-19   | 1-1/2    | 1/2-20  |
| ATI474-19X  | 1-17/32  | 1/2-20  |
| ATI474-20   | 1-9/16   | 1/2-20  |
| ATI47420X   | 1-19/32  | 1/2-20  |
| ATI474-21   | 1-5/8    | 1/2-20  |
| ATI47421X   | 1-21/32  | 1/2-20  |
| ATI474-22   | 1-11/16  | 1/2-20  |
| ATI47422X   | 1-23/32  | 1/2-20  |
| ATI474-23   | 1-3/4    | 1/2-20  |
| ATI47423X   | 1-25/32  | 1/2-20  |
| ATI474-24   | 1-13/16  | 1/2-20  |
| ATI474-24X  | 1-27/32  | 1/2-20  |

| Part Number | Diameter | Thread |
|-------------|----------|--------|
| ATI474-25   | 1-7/8    | 1/2-20 |
| ATI47425X   | 1-29/32  | 1/2-20 |
| ATI474-26   | 1-15/16  | 1/2-20 |
| ATI474-26X  | 1-31/32  | 1/2-20 |
| ATI474-27   | 2        | 1/2-20 |
| ATI474-27X  | 2-1/32   | 1/2-20 |
| ATI474-28   | 2-1/16   | 1/2-20 |
| ATI474-28X  | 2-3/32   | 1/2-20 |
| ATI474-29   | 2-1/8    | 1/2-20 |
| ATI474-29X  | 2-5/32   | 1/2-20 |
| ATI474-30   | 2-3/16   | 1/2-20 |
| ATI474-30X  | 2-7/32   | 1/2-20 |
| ATI474-31   | 2-1/4    | 1/2-20 |
| ATI47431X   | 2-9/32   | 1/2-20 |
| ATI474-32   | 2-5/16   | 1/2-20 |
| ATI474-32X  | 2-11/32  | 1/2-20 |
| ATI474-33   | 2-3/8    | 1/2-20 |
| ATI474-33X  | 2-13/32  | 1/2-20 |
| ATI47434    | 2-7/16   | 1/2-20 |
| ATI474-34X  | 2-15/32  | 1/2-20 |
| ATI474-35   | 2-1/2    | 1/2-20 |
| ATI474-35X  | 2-17/32  | 1/2-20 |
| ATI47436    | 2-9/16   | 1/2-20 |
| ATI47436X   | 2-19/32  | 1/2-20 |
| ATI47437    | 2-5/8    | 1/2-20 |
| ATI474-37X  | 2-21/32  | 1/2-20 |
| ATI474-38   | 2-11/16  | 1/2-20 |
| ATI474-38X  | 2-23/32  | 1/2-20 |
| ATI474-39   | 2-3/4    | 1/2-20 |
| ATI474-39X  | 2-25/32  | 1/2-20 |
| ATI474-40   | 2-13/16  | 1/2-20 |
| ATI474-40X  | 2-27/32  | 1/2-20 |
| ATI474-41   | 2-7/8    | 1/2-20 |
| ATI474-41X  | 2-29/32  | 1/2-20 |
| ATI474-42   | 2-15/16  | 1/2-20 |
| ATI474-42X  | 2-31/32  | 1/2-20 |
| ATI474-43   | 3        | 1/2-20 |
| ATI47443X   | 3-1/32   | 1/2-20 |
| ATI47444    | 3-1/16   | 1/2-20 |
| ATI474-44X  | 3-3/32   | 1/2-20 |
| ATI47445    | 3-1/8    | 1/2-20 |
| ATI47445X   | 3-5/32   | 1/2-20 |
| ATI47446    | 3-3/16   | 1/2-20 |
| ATI474-46X  | 3-7/32   | 1/2-20 |
| ATI474-47   | 3-1/4    | 1/2-20 |
| ATI474-47X  | 3-9/32   | 1/2-20 |
| ATI474-48   | 3-5/16   | 1/2-20 |
| ATI474-48X  | 3-11/32  | 1/2-20 |

| Part Number | Diameter | Thread |
|-------------|----------|--------|
| ATI47449    | 3-3/8    | 1/2-20 |
| ATI474-49X  | 3-13/32  | 1/2-20 |
| ATI474-50   | 3-7/16   | 1/2-20 |
| ATI474-50X  | 3-15/32  | 1/2-20 |
| ATI474-51   | 3-1/2    | 1/2-20 |
| ATI474-51X  | 3-17/32  | 1/2-20 |
| ATI474-52   | 3-9/16   | 1/2-20 |
| ATI474-52X  | 3-19/32  | 1/2-20 |
| ATI474-53   | 3-5/8    | 1/2-20 |
| ATI474-53X  | 3-21/32  | 1/2-20 |
| ATI47454    | 3-11/16  | 1/2-20 |
| ATI474-54X  | 3-23/32  | 1/2-20 |
| ATI474-55   | 3-3/4    | 1/2-20 |
| ATI474-55X  | 3-25/32  | 1/2-20 |
| ATI47456    | 3-13/16  | 1/2-20 |
| ATI474-56X  | 3-27/32  | 1/2-20 |
| ATI474-57   | 3-7/8    | 1/2-20 |
| ATI474-57X  | 3-29/32  | 1/2-20 |
| ATI474-58   | 3-15/16  | 1/2-20 |
| ATI474-58X  | 3-31/32  | 1/2-20 |
| ATI474-59   | 4        | 1/2-20 |

#### HOLE SAW ARBORS

- Pilot and shank are ground to ensure tight concentricity
- Use with ATI413 and ATI474 hole saws



**ATI415-1**

| Part Number | Shank Diameter | Pilot Diameter | Thread  |
|-------------|----------------|----------------|---------|
| ATI415-0    | 1/4            | 3/16           | 5/16-24 |
| ATI415-1    | 1/4            | 1/4            | 5/16-24 |
| ATI415-2    | 1/2            | 1/4            | 1/2-20  |
| ATI415-3    | 1/2            | 3/8            | 1/2-20  |
| ATI415-10   | 1/4            | 1/4            | 1/2-20  |



- Aircraft style, straight shank counterbores are used to cut flat areas or recesses for bolt heads and nuts
- Use with ATI489 replaceable counterbore pilots
- A set screw ensures pilot stays in the counterbore
- Standard counterbores have no corner radius

Note: Corner radius available upon special order.

| Part Number | Diameter | Pilot Hole Diameter | Shank Diameter |
|-------------|----------|---------------------|----------------|
| ATI488C-0   | 3/16     | 3/32                | 1/4            |
| ATI488C-1   | 1/4      | 3/32                | 1/4            |
| ATI488C-2   | 9/32     | 3/32                | 1/4            |
| ATI488C-3   | 5/16     | 3/32                | 1/4            |
| ATI488C-4   | 11/32    | 3/32                | 1/4            |
| ATI488C-5   | 3/8      | 3/32                | 1/4            |
| ATI488C-6   | 13/32    | 1/8                 | 1/4            |
| ATI488C-7   | 7/16     | 1/8                 | 1/4            |
| ATI488C-8   | 15/32    | 1/8                 | 1/4            |
| ATI488C-9   | 1/2      | 1/8                 | 1/4            |
| ATI488C-10  | 17/32    | 1/8                 | 1/4            |
| ATI488C-11  | 9/16     | 1/8                 | 1/4            |

| Part Number | Diameter | Pilot Hole Diameter | Shank Diameter |
|-------------|----------|---------------------|----------------|
| ATI488C-12  | 19/32    | 1/8                 | 1/4            |
| ATI488C-13  | 5/8      | 1/8                 | 1/4            |
| ATI488C-14  | 21/32    | 3/16                | 1/4            |
| ATI488C-15  | 11/16    | 3/16                | 1/4            |
| ATI488C-16  | 23/32    | 3/16                | 1/4            |
| ATI488C-17  | 3/4      | 3/16                | 1/4            |
| ATI488C-18  | 25/32    | 3/16                | 1/4            |
| ATI488C-19  | 13/16    | 3/16                | 1/4            |
| ATI488C-20  | 27/32    | 3/16                | 1/4            |
| ATI488C-21  | 7/8      | 3/16                | 1/4            |
| ATI488C-22  | 29/32    | 3/16                | 1/4            |
| ATI488C-23  | 15/16    | 3/16                | 1/4            |
| ATI488C-24  | 31/32    | 3/16                | 1/4            |



ATI488C-21

| Part Number | Diameter | Pilot Hole Diameter | Shank Diameter |
|-------------|----------|---------------------|----------------|
| ATI488C-25  | 1        | 3/16                | 1/4            |
| ATI488C-26  | 1 1/16   | 3/16                | 3/8            |
| ATI488C-27  | 1 1/8    | 3/16                | 3/8            |
| ATI488C-28  | 1 3/16   | 3/16                | 3/8            |
| ATI488C-29  | 1 1/4    | 3/16                | 3/8            |
| ATI488C-30  | 1 5/16   | 3/16                | 3/8            |
| ATI488C-31  | 1 3/8    | 3/16                | 3/8            |
| ATI488C-32  | 1 1/2    | 3/16                | 3/8            |

## COUNTERBORE PILOTS

- Use these pilots with ATI488C counterbores
- Match the shank diameter of the pilot to the pilot hole diameter of the counterbore

| Part Number | Pilot Diameter | Shank Diameter |
|-------------|----------------|----------------|
| ATI489A-1   | 3/32           | 3/32           |
| ATI489A-2   | 1/8            | 3/32           |
| ATI489A-3   | 5/32           | 3/32           |
| ATI489A-4   | #21            | 3/32           |
| ATI489A-5   | 3/16           | 3/32           |
| ATI489A-6   | #10            | 3/32           |
| ATI489A-7   | 7/32           | 3/32           |
| ATI489A-8   | 1/4            | 3/32           |
| ATI489A-9   | F              | 3/32           |
| ATI489A-10  | 9/32           | 3/32           |
| ATI489A-11  | 5/16           | 3/32           |

| Part Number | Pilot Diameter | Shank Diameter |
|-------------|----------------|----------------|
| ATI489B-2   | 1/8            | 1/8            |
| ATI489B-3   | 5/32           | 1/8            |
| ATI489B-4   | #21            | 1/8            |
| ATI489B-5   | 3/16           | 1/8            |
| ATI489B-6   | #10            | 1/8            |
| ATI489B-7   | 7/32           | 1/8            |
| ATI489B-8   | 1/4            | 1/8            |
| ATI489B-9   | F              | 1/8            |
| ATI489B-10  | 9/32           | 1/8            |
| ATI489B-11  | 5/16           | 1/8            |
| ATI489B-12  | 11/32          | 1/8            |
| ATI489B-13  | 3/8            | 1/8            |
| ATI489B-14  | 13/32          | 1/8            |
| ATI489B-15  | 7/16           | 1/8            |
| ATI489B-16  | 15/32          | 1/8            |
| ATI489B-17  | 1/2            | 1/8            |

| Part Number | Pilot Diameter | Shank Diameter |
|-------------|----------------|----------------|
| ATI489C-5   | 3/16           | 3/16           |
| ATI489C-6   | #10            | 3/16           |
| ATI489C-7   | 7/32           | 3/16           |
| ATI489C-8   | 1/4            | 3/16           |
| ATI489C-9   | F              | 3/16           |
| ATI489C-10  | 9/32           | 3/16           |
| ATI489C-11  | 5/16           | 3/16           |
| ATI489C-12  | 11/32          | 3/16           |
| ATI489C-13  | 3/8            | 3/16           |
| ATI489C-14  | 13/32          | 3/16           |
| ATI489C-15  | 7/16           | 3/16           |
| ATI489C-16  | 15/32          | 3/16           |
| ATI489C-17  | 1/2            | 3/16           |
| ATI489C-18  | 17/32          | 3/16           |
| ATI489C-19  | 9/16           | 3/16           |
| ATI489C-20  | 19/32          | 3/16           |
| ATI489C-21  | 5/8            | 3/16           |
| ATI489C-22  | 21/32          | 3/16           |
| ATI489C-23  | 11/16          | 3/16           |
| ATI489C-24  | 23/32          | 3/16           |
| ATI489C-25  | 3/4            | 3/16           |



ATI489B-8

## COUNTERBORE EXTENSION

Counterbore extensions are precision ground to insure concentricity. Used for counterboring in recesses or tight access areas where a longer shank is required.

| Part Number | Shank Diameter | "L" |
|-------------|----------------|-----|
| ATI470A-1   | 1/4"           | 4"  |
| ATI470A-2   | 1/4"           | 6"  |



ATI470A-1



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

CUTTING TOOLS AND MICROSTOPS

MICRO MILLER RIVET SHAVER



ATI429SXC

- 3/4" Cutter Capacity
- .0005" Depth Adjustment
- Sioux 1.0 HP 20,000 RPM Power Unit
- Comfort Grip
- Includes ATI429A-4 Skirt



ATI429SXC

MICRO MILLER CUTTERS AND SKIRTS

ATI429 SERIES

A carbide insert cutter to ensure a hard cutting edge and precision ground to produce a chatter-free cut.

| Part Number (Cutter) | Part Number (Skirt) | Diameter |
|----------------------|---------------------|----------|
| ATI429B-0            | ATI429A-1           | 1/4"     |
| ATI429B-1            | ATI429A-1           | 5/16"    |
| ATI429B2             | ATI429A-2           | 3/8"     |
| ATI429B-3            | ATI429A-3           | 7/16"    |
| ATI429B-4            | ATI429A-4           | 1/2"     |
| ATI429B-5            | ATI429A-5           | 9/16"    |
| ATI429B-6            | ATI429A-6           | 5/8"     |
| ATI429B-7            | ATI429A-7           | 3/4"     |



ATI429B-6



ATI429A-7

RIVET SHAVER KIT

ATI590L

- Includes ATI429SXC Rivet Shaver
- Carbide cutters and skirts for 5/16", 3/8", 7/16", 1/2", 9/16", 5/8" AND 3/4" rivet heads
- Kit box with cutouts provides protection and quick identification of missing components



## HI-LOK® TOOLS AND ACCESSORIES

Hi-Lok® Fasteners are the most commonly used lightweight, tamperproof fasteners in the aviation industry. A registered trademark of Hi-Shear Corp, Hi-Lok® fasteners' unique advantages are two-fold. First, Hi-Lok® fasteners yield very consistent clamp force when properly installed, a critical requirement when securing aviation panels. Second, the Hi-Lok® fastener's "frangible" collar shears off upon reaching the required torque, yielding a tamperproof mechanical connection. Hi-Lok® fasteners are most often used in aviation wing assemblies.

ATI offers an extensive line of installation and removal tools to support this product category. Constant refinement of our original designs has resulted in a line of hand tools offering maximum efficiency and trouble-free use. This has been accomplished by ATI's designers and field representatives working closely with aircraft manufacturers to solve production problems.

### HI-LOK® INSTALLATION



Installing the Hi-Lok® fastener with the "Roller Clutch" wrench.

Hi-Lok® fasteners completely installed.

### HI-LOK® REMOVAL



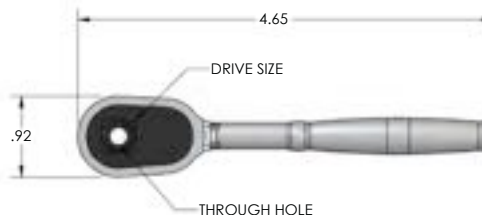
## HI-LOK® TOOLS AND ACCESSORIES

### HI-LOK® INSTALLATION TOOLS



#### HI-LOK® REVERSIBLE RATCHET WRENCH, 1/4" AND 3/8" DRIVE

| Part Number | Description                                  |
|-------------|----------------------------------------------|
| ATI3594     | 1/4" Ratchet, 72 tooth, dual pawl, reversing |
| ATI3595     | 3/8" Ratchet, 72 tooth, dual pawl, reversing |



#### HI-LOK® 6-POINT SOCKETS

Chrome-plated with set screw to secure socket to ratchet.

| Part Number | Drive | Hex Size |
|-------------|-------|----------|
| ATI3596-.19 | 1/4"  | 3/16"    |
| ATI3596-.22 | 1/4"  | 7/32"    |
| ATI3596-.25 | 1/4"  | 1/4"     |
| ATI3596-.28 | 1/4"  | 9/32"    |
| ATI3596-.31 | 1/4"  | 5/16"    |
| ATI3596-.34 | 1/4"  | 11/32"   |
| ATI3596-.38 | 1/4"  | 3/8"     |
| ATI3597-.38 | 3/8"  | 3/8"     |
| ATI3597-.44 | 3/8"  | 7/16"    |
| ATI3597-.50 | 3/8"  | 1/2"     |



ATI3596-.31



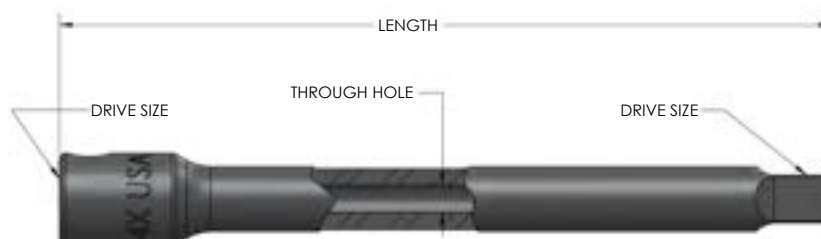
ATI3597-.38



#### HI-LOK® RATCHET EXTENSIONS

For use with ATI3594 and ATI3595 ratchets and all sockets listed in above table.

| Part Number | Drive | Length |
|-------------|-------|--------|
| ATI3594-2X  | 1/4"  | 2"     |
| ATI3594-4X  | 1/4"  | 4"     |
| ATI3597-3X  | 3/8"  | 3"     |



#### HI-LOK® INSTALLATION KITS

##### ATI3594K Frangible Collar Installation Kit

Kit for installing frangible collar fasteners, including Hi-Lok® and Hi-Lite®.



ATI3594K

Kit includes:

|   |             |   |                |
|---|-------------|---|----------------|
| 1 | ATI3594     | 1 | ATI3596-.31    |
| 1 | ATI3596-.19 | 1 | ATI3596-.34    |
| 1 | ATI3596-.22 | 1 | ATI3596-.38    |
| 1 | ATI3596-.25 | 1 | ATI3594-2X     |
| 1 | ATI3596-.28 | 1 | ATI3594-4X     |
| 1 | Hex Wrench  | 2 | T-Hex Wrenches |

##### ATI3600K Comprehensive Frangible Collar Installation Kit

Comprehensive kit for installing frangible collar fasteners, including Hi-Lok® and Hi-Lite®.



ATI3600K

Kit includes:

|   |             |   |                |
|---|-------------|---|----------------|
| 1 | ATI3594     | 1 | ATI3595        |
| 1 | ATI3596-.19 | 1 | ATI3596-.34    |
| 1 | ATI3596-.22 | 1 | ATI3596-.38    |
| 1 | ATI3596-.25 | 1 | ATI3597-.38    |
| 1 | ATI3596-.28 | 1 | ATI3597-.44    |
| 1 | ATI3596-.31 | 1 | ATI3597-.50    |
| 1 | ATI3594-2X  | 1 | ATI3597-3X     |
| 1 | Hex Wrench  | 4 | T-Hex Wrenches |





## HI-LOK® TOOLS AND ACCESSORIES

### HI-LOK® ROLLER CLUTCH WRENCH

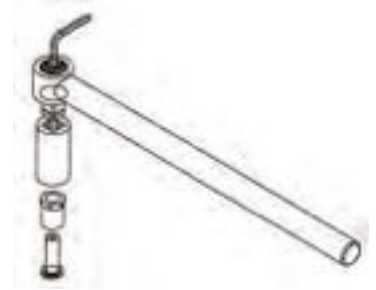
- Smooth instantaneous engagement
- Good for limited access areas with limited handle rotation



ATISK3539



ATI3539IT38



| Part Number  | Function     | Drive             | Length | Finish      | (ATISK3539A5) | (ATISK3539A8) |
|--------------|--------------|-------------------|--------|-------------|---------------|---------------|
| ATI3539IT14  | Installation | 1/4" Hex Socket   | 3"     | Black Oxide | X             | X             |
| ATISK3539    | Installation | 1/4" Square       | 3"     | Black Oxide | X             | X             |
| ATISK3539L   | Installation | 1/4" Square       | 6"     | Black Oxide |               |               |
| ATI3539I1132 | Installation | 11/32" Hex Socket | 3"     | Black Oxide | X             | X             |
| ATI3539IT38  | Installation | 3/8" Hex Socket   | 3"     | Black Oxide |               | X             |
| ATI3539IT516 | Installation | 5/16" Hex Socket  | 3"     | Black Oxide | X             | X             |
| ATI3539IT716 | Installation | 7/16" Hex Socket  | 3"     | Black Oxide |               | X             |
| ATI3539IT732 | Installation | 7/32" Hex Socket  | 3"     | Black Oxide | X             | X             |
| ATISK3539B   | Installation | 1/4" Square       | 3"     | Zinc        |               |               |
| ATISK3539BL  | Installation | 1/4" Square       | 6"     | Zinc        |               |               |
| ATISK3539LR  | Removal      | 1/4" Square       | 6"     | Black Oxide |               |               |
| ATISK3539R   | Removal      | 1/4" Square       | 3"     | Black Oxide |               | X             |

## HI-LOK® ROLLER CLUTCH WRENCH KITS

### ATISK3539A5 Roller Clutch Wrench Kit, 5-PC



Kit includes:

|   |              |   |              |
|---|--------------|---|--------------|
| 1 | ATI2979      | 1 | ATI3539IT14  |
| 1 | ATISK3539    | 1 | ATI3539I1132 |
| 1 | ATI3539IT732 | 1 | ATI3539IT516 |

### ATISK3539A8 Roller Clutch Wrench Kit, 8-PC



Kit includes:

|   |              |   |              |
|---|--------------|---|--------------|
| 1 | ATI2979      | 1 | ATI3539I1132 |
| 1 | ATISK3539    | 1 | ATI3539IT516 |
| 1 | ATISK3539R   | 1 | ATI3539IT38  |
| 1 | ATI3539IT732 | 1 | ATI3539IT716 |
| 1 | ATI3539IT14  |   |              |

### ATISK3539LPR Roller Clutch Wrench Kit

This Roller Clutch Wrench Kit consists of two clutch-driven handles, seven insertion tools and three hex wrenches. The sockets and square drive can be inserted in either side of the two-way handle, providing both insertion and removal capabilities. The operator simply removes the socket from one end, and inserts it into the other, to reverse the installation process. These shallow sockets extend 1/4" beyond the thickness of the handle. Assembled, the working end of the tool measures a mere 3/4", allowing maximum close-quarter flexibility.



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

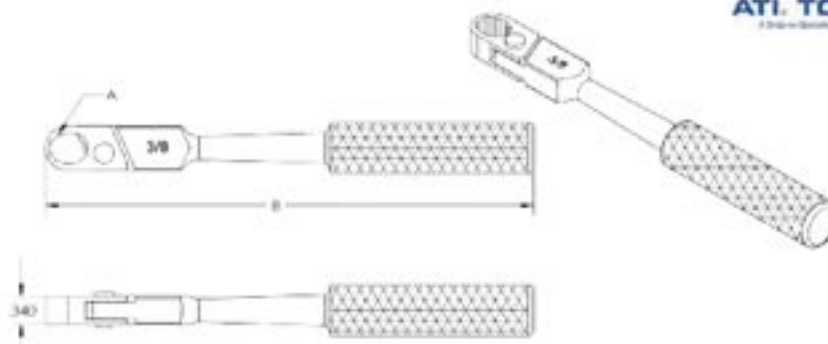
## HI-LOK® TOOLS AND ACCESSORIES

### 12-POINT CLOSE CLEARANCE RATCHET WRENCH



#### ATI2650 SERIES

| Part Number | 'A'   | 'B'    |
|-------------|-------|--------|
| ATI2650-8   | 1/4"  | 4-1/4" |
| ATI2650-10  | 5/16" | 5-3/8" |
| ATI2650-12  | 3/8"  | 6-1/8" |
| ATI2650-14  | 7/16" | 6-3/8" |



## HI-LOK® REMOVAL TOOLS

### HI-LOK® REMOVAL PLIERS

#### ATI2979U

Serrated-jaw pattern for removal of all aluminum frangible collars. Comfort grip handles. Easy access into tight areas.



ATI2979U



### FRANGIBLE COLLAR REMOVAL SOCKETS

#### ATI3585 SERIES

- New Patent-Pending design immediately engages collars with minimal downward force
- Design allows for easy removal of collars from socket after removal
- Sockets feature 1/4" drive and a set screw holds the socket in place on ratchet
- Removes most collars such as Hi-Lok®, Hi-Lite®, Eddie Bolt® and HUCK threaded collar systems, including stainless steel and aluminum
- Versatility: One ATI3585 removal socket can accommodate multiple fastener sizes
- Compact size enables removal in the tightest access areas

| Part Number | Pin Size | Description                                                                   |
|-------------|----------|-------------------------------------------------------------------------------|
| ATI3585-5B  | 5/32"    | Removes most 5/32" Hi-Lok® and Hi-Lite® collars, aluminum and stainless steel |
| ATI3585-6A  | 3/16"    | Removes most 3/16" Hi-Lok® and Hi-Lite® collars, stainless steel material     |
| ATI3585-6B  | 3/16"    | Removes most 3/16" Hi-Lok® and Hi-Lite® collars, aluminum material            |
| ATI3585-8A  | 1/4"     | Removes most 1/4" Hi-Lite® collars, aluminum and stainless steel material     |
| ATI3585-8B  | 1/4"     | Removes most 1/4" Hi-Lok® collars, stainless steel material                   |
| ATI3585-8C  | 1/4"     | Removes most 1/4" Hi-Lok® collars, aluminum material                          |
| ATI3585-10A | 5/16"    | Removes most 5/16" Hi-Lite® collars, aluminum and stainless steel material    |
| ATI3585-10B | 5/16"    | Removes most 5/16" Hi-Lok® collars, stainless steel material                  |
| ATI3585-10C | 5/16"    | Removes most 5/16" Hi-Lok® collars, aluminum material                         |
| ATI3585-12A | 3/8"     | Removes most 3/8" Hi-Lite® collars, aluminum and stainless steel material     |
| ATI3585-12B | 3/8"     | Removes most 3/8" Hi-Lok® collars, stainless steel material                   |
| ATI3585-12C | 3/8"     | Removes most 3/8" Hi-Lok® collars, aluminum material                          |



### FRANGIBLE COLLAR REMOVAL SOCKET SET WITH RAIL

#### ATI3585-6PC



ATI3585-6PC

6-PC set includes:

|            |            |
|------------|------------|
| ATI3585-5B | ATI3585-8A |
| ATI3585-6A | ATI3585-8B |
| ATI3585-6B | ATI3585-8C |



### FRANGIBLE COLLAR REMOVAL SOCKET KIT

#### ATI3588K

Comprehensive kit designed for removing various frangible collars including Hi-Lok® and Hi-Lite® fasteners.

Sizes 5/32", 3/16", and 1/4"

Kit includes:

|   |            |   |              |
|---|------------|---|--------------|
| 1 | ATI3594    | 1 | ATI3585-8C   |
| 1 | ATI3585-5B | 1 | ATI2979U     |
| 1 | ATI3585-6A | 1 | ATI3594-2X   |
| 1 | ATI3585-6B | 1 | ATI3594-4X   |
| 1 | ATI3585-8A | 1 | Hex Wrench   |
| 1 | ATI3585-8B | 2 | T-Hex Wrench |



ATI3588K



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.

**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## SHOP TOOLS

This product section illustrates various tools which were designed to meet specific applications in the fabrication of modern aircraft.



**MINA-VACS • SCREW REMOVAL TOOLS • CYLINDRICAL BODY SKIN CLAMP RUNNER • TEMPORARY FASTENERS AND CLAMPS**

SHOP TOOLS

PLIERS AND CLAMPS



CANNON PLUG CONNECTOR PLIERS

- ATI508K**
- Slip-joint handles
  - Serrated, replaceable plastic jaws (ATI508K-4)
  - Adjustable grip range from 3/4" to 2-1/2" diameter
  - Used to tighten or loosen threaded collars on electrical connectors



ATI508K

- ATI508KG**
- ATI508K with high visibility cushioned grips



ATI508KG

- ATI508K-4**
- Replaceable pads for ATI508K and ATI508KG



ATI508K-4

ROBO GRIP® CANNON PLUG CONNECTOR PLIERS

Robo Grip pliers are the only pliers that automatically self-adjust, for true one-handed operation. The jaws adjust as quickly as your hand can squeeze, making every job faster and easier. Narrow jaws allow easy access to the tightest places with the least clearance.

| Part Number | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| RCP8        | Cannon plug connector pliers, straight head, 1-5/8" capacity, 8" length, self-adjusting          |
| RCP9        | Cannon plug connector pliers, straight head, 3" capacity, 9" length, self-adjusting              |
| ACP8        | Cannon plug connector pliers, 30° offset angled head, 1-5/8" capacity, 8" length, self-adjusting |



ACP8



RCP8

CAMLOC PLIERS

- ATI044P3**
- For use with Camloc Fasteners, Stud Series 2000, 2700, and 4002.



ATI044P3

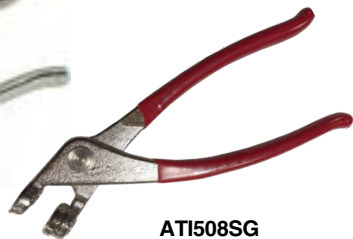
SHEET HOLDER PLIERS

- Forged steel
- Available with ergonomically designed cushioned grips

| Part Number | Description                                                                                |
|-------------|--------------------------------------------------------------------------------------------|
| ATI508S     | For use with ATI542, ATI543, ATI544, and plier-operated sheet holders and side grip clamps |
| ATI508SG    | ATI508S with high visibility cushioned grips                                               |



ATI508S



ATI508SG



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1



AT1542

### SPRING TENSION CLAMPS

- U-Clamp, plier operated; 70-pound clamping force
- Designed to use with AT1508S or AT1508SG

| Part Number | Material | Material Capacity | Reach  |
|-------------|----------|-------------------|--------|
| AT1542      | Zamak    | 0-7/16"           | 2"     |
| AT1542S     | Steel    | 0-7/16"           | 2"     |
| AT1543      | Zamak    | 1/4"-15/32"       | 3"     |
| AT1544      | Zamak    | 1/2"-3/4"         | 3-1/2" |



AT1550SG

### SIDE-GRIP CLAMPS

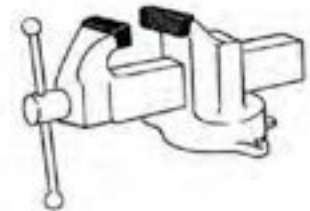
#### AT1550 SERIES

- Plier-operated, spring loaded
- Minimal surface marring
- Spring design prevents over tightening
- 60 pounds clamping force

| Part Number | Material Capacity | Reach | OAL     |
|-------------|-------------------|-------|---------|
| AT1550SG    | 0-3/4"            | 1"    | 2-7/16" |
| AT1551SG    | 0-3/4"            | 1/2"  | 2-7/16" |
| AT1552SG    | 0-1/2"            | 1"    | 2-3/16" |
| AT1553SG    | 0-1/2"            | 1/2"  | 2-3/16" |

### VICE SLEEVES

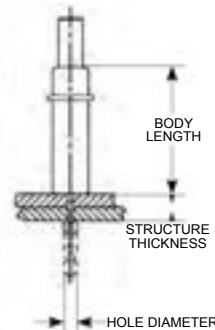
| Part Number | Description                                           |
|-------------|-------------------------------------------------------|
| AT1529      | Vice sleeves, molded rubber, 4" jaw sold in pairs     |
| AT1530      | Vice sleeves, molded rubber, 4-1/2" jaw sold in pairs |



## TEMPORARY FASTENERS

### PLIER OPERATED TEMPORARY FASTENERS

| Part Number | Grip Range | Body Length | Size  | For Drill | Color  |
|-------------|------------|-------------|-------|-----------|--------|
| AT1551M     | 0-1/4"     | 1-29/64"    | 3/32" | #40       | ZINC   |
| AT1552M     | 0-1/4"     | 1-29/64"    | 1/8"  | #30       | COPPER |
| AT1553M     | 0-1/4"     | 1-29/64"    | 5/32" | #21       | BLACK  |
| AT1554M     | 0-1/4"     | 1-29/64"    | 3/16" | #10       | BRASS  |
| AT1556M     | 0-1/4"     | 1-31/64"    | 1/4"  | 1/4"      | COPPER |
| AT1551MHD   | 0-1/2"     | 1-7/64"     | 3/32" | #40       | ZINC   |
| AT1552MHD   | 0-1/2"     | 1-7/64"     | 1/8"  | #30       | COPPER |
| AT1553MHD   | 0-1/2"     | 1-7/64"     | 5/32" | #21       | BLACK  |
| AT1554MHD   | 0-1/2"     | 1-7/64"     | 3/16" | #10       | BRASS  |
| AT1556MHD   | 0-1/2"     | 1-47/64"    | 1/4"  | 1/4"      | COPPER |



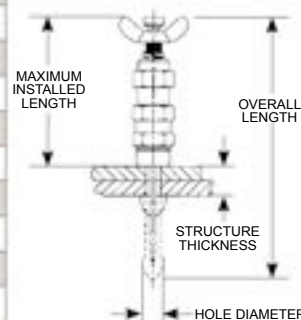
AT1552M



AT1552MHD

### MANUAL OPERATED TEMPORARY FASTENERS, WING NUT

| Part Number | Grip Range | Body Length (OAL) | Size  | For Drill | Color  |
|-------------|------------|-------------------|-------|-----------|--------|
| AT1551WNX   | 0-1/2"     | 2-7/8"            | 3/32" | #40       | ZINC   |
| AT1552WNX   | 0-1/2"     | 2-7/8"            | 1/8"  | #30       | COPPER |
| AT1553WNX   | 0-1/2"     | 2-7/8"            | 5/32" | #21       | BLACK  |
| AT1554WNX   | 0-1/2"     | 2-7/8"            | 3/16" | #10       | BRASS  |
| AT1556WNX   | 0-1/2"     | 2-7/8"            | 1/4"  | 1/4"      | COPPER |
| AT1551WNXL  | 0-1"       | 3-7/8"            | 3/32" | #40       | ZINC   |
| AT1552WNXL  | 0-1"       | 3-7/8"            | 1/8"  | #30       | COPPER |
| AT1553WNXL  | 0-1"       | 3-7/8"            | 5/32" | #21       | BLACK  |
| AT1554WNXL  | 0-1"       | 3-7/8"            | 3/16" | #10       | BRASS  |
| AT1556WNXL  | 0-1"       | 3-7/8"            | 1/4"  | 1/4"      | COPPER |



AT1552WNX



AT1552WNXL



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

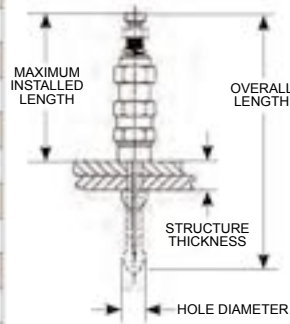
## SHOP TOOLS

### TEMPORARY FASTENERS



#### POWER OPERATED TEMPORARY FASTENERS, HEX NUT

| Part Number | Grip Range | Body Length (OAL) | Size  | For Drill | Color  |
|-------------|------------|-------------------|-------|-----------|--------|
| ATI551HNX   | 0-1/2"     | 2-7/8"            | 3/32" | #40       | ZINC   |
| ATI552HNX   | 0-1/2"     | 2-7/8"            | 1/8"  | #30       | COPPER |
| ATI553HNX   | 0-1/2"     | 2-7/8"            | 5/32" | #21       | BLACK  |
| ATI554HNX   | 0-1/2"     | 2-7/8"            | 3/16" | #10       | BRASS  |
| ATI556HNX   | 0-1/2"     | 2-7/8"            | 1/4"  | 1/4"      | COPPER |
| ATI551HNXL  | 0-1"       | 3-7/8"            | 3/32" | #40       | ZINC   |
| ATI552HNXL  | 0-1"       | 3-7/8"            | 1/8"  | #30       | COPPER |
| ATI553HNXL  | 0-1"       | 3-7/8"            | 5/32" | #21       | BLACK  |
| ATI554HNXL  | 0-1"       | 3-7/8"            | 3/16" | #10       | BRASS  |
| ATI556HNXL  | 0-1"       | 3-7/8"            | 1/4"  | 1/4"      | COPPER |



ATI552HNX



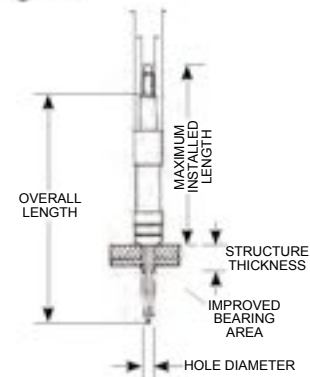
ATI552HNXL

#### POWER OPERATED TEMPORARY FASTENERS, CYLINDRICAL BODY

| Part Number  | Part Number W/ Plastic Cap | Body Length (OAL) | Grip Range | Size  | For Drill | Color  |
|--------------|----------------------------|-------------------|------------|-------|-----------|--------|
| CBXBF332PC   | CBXBF332PC                 | 4-1/32"           | 0-1/2"     | 3/32" | #40       | ZINC   |
| CBX-BF-1/8   | CBXBF18PC                  | 4-1/16"           | 0-1/2"     | 1/8"  | #30       | COPPER |
| CBX-BF-5/32  | CBXBF532PC                 | 4-3/32"           | 0-1/2"     | 5/32" | #21       | BLACK  |
| CBXBF316     | CBXBF316PC                 | 4-1/8"            | 0-1/2"     | 3/16" | #10       | BRASS  |
| CBX-BF-1/4   | CBXBF14PC                  | 4-5/32"           | 0-1/2"     | 1/4"  | 1/4"      | COPPER |
| CBXL-BF-3/32 | CBXLB332PC                 | 5-1/32"           | 0-1"       | 3/32" | #40       | ZINC   |
| CBXL-BF-1/8  | CBXLB18PC                  | 5-1/16"           | 0-1"       | 1/8"  | #30       | COPPER |
| CBXLB532     | CBXLB532PC                 | 5-3/32"           | 0-1"       | 5/32" | #21       | BLACK  |
| CBXL-BF-3/16 | CBXLB316PC                 | 5-1/8"            | 0-1"       | 3/16" | #10       | BRASS  |
| CBXL-BF-1/4  | CBXLB14PC                  | 5-5/32"           | 0-1"       | 1/4"  | 1/4"      | COPPER |



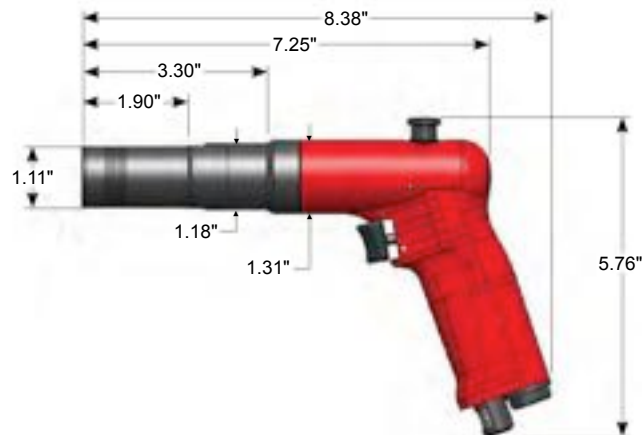
CBX-BF-1/8



#### SKIN CLAMP RUNNER, FOR CYLINDRICAL BODY FASTENERS

##### ATI800FG

- Heavy duty, lightweight, and compact
- Standard model maximum torque at 25 in lbs.
- Push button rapid reverse with lock position
- Greater torque in reverse eases removal of installed fastener
- Dual roller clutch carriers for longevity
- CE Certified



##### ATI800FGC TORQUE CONTROL CLUTCH

- Heavy duty, lightweight, and compact
- Adjustable clutch for specific torque applications
- Push button rapid reverse with lock position
- Greater torque in reverse eases removal of installed fastener
- Dual roller clutch carriers for longevity
- CE Certified





## TORQ-SET™ INSERT BIT



| Part Number | Size | OAL |
|-------------|------|-----|
| ATIT0A1     | 0"   | 1"  |
| ATIT1A1     | 1"   | 1"  |
| ATIT2A1     | 2"   | 1"  |
| ATIT3A1     | 3"   | 1"  |
| ATIT4A1     | 4"   | 1"  |
| ATIT5A1     | 5"   | 1"  |
| ATIT6A1     | 6"   | 1"  |
| ATIT8A1     | 8"   | 1"  |
| ATIT10A1    | 10"  | 1"  |
| ATIT16A1    | 1/4" | 1"  |

## TORQ-SET™ SCREWDRIVERS

This accessory combines both bit and driver for installation of Torq-Set® insert bits. Shock-proof and non-flammable, the handles are deep fluted for grip and turning power. Carried in standard point sizes 4, 6, 8, 10 and 1/4".



| Part Number | Point Size | Driver    | Driver Length | OAL      |
|-------------|------------|-----------|---------------|----------|
| ATI268P4    | 4          | 1/4" Hex  | 3-1/8"        | 7-1/16"  |
| ATI268P6    | 6          | 1/4" Hex  | 4"            | 7-15/16" |
| ATI268P8    | 8          | 1/4" Hex  | 4"            | 7-15/16" |
| ATI268P10   | 10         | 1/4" Hex  | 4"            | 7-15/16" |
| ATI268P-1/4 | 1/4"       | 5/16" Hex | 6"            | 10-1/2"  |

## HI-TORQUE® DRIVER

Square Drive Insert Bits

| Part Number | Hex Insert | Blade Thickness | Blade Width | Body Diameter | Length |
|-------------|------------|-----------------|-------------|---------------|--------|
| ATIHTS1     | 1/4"       | .049            | .274        | 1/2"          | 1"     |
| ATIHTS-2    | 1/4"       | .059            | .295        | 1/2"          | 1"     |
| ATIHTS-3    | 1/4"       | .059            | .377        | 1/2"          | 1"     |
| ATIHTS-4    | 1/4"       | .073            | .502        | 1/2"          | 1"     |
| ATIHTS-5    | 3/8"       | .079            | .629        | 3/4"          | 1-1/4" |
| ATIHTS6     | 3/8"       | .095            | .745        | 3/4"          | 1-1/4" |



ATIHTS-3

## 8-SPLINE OCTAGONAL SOCKETS

These sockets are used extensively on P3 Patrol and A-10 Wart Hog maintenance. The Kaynar fastener is also used on Airbus wing sections. High-quality tool steel with nickel-chrome plating.

| Part Number  | Reference | Description                 | Fastener Size |
|--------------|-----------|-----------------------------|---------------|
| ATISK3686-2T | W-603-2   | Socket, 8-Spline, Octagonal | #8            |
| ATISK3686-3T | W-603-3   | Socket, 8-Spline, Octagonal | #10           |
| ATISK3686-4T | W-603-4   | Socket, 8-Spline, Octagonal | 1/4"          |
| ATISK3686-5F | W-603-5   | Socket, 8-Spline, Octagonal | 5/16"         |
| ATISK3686-6F | W-603-6   | Socket, 8-Spline, Octagonal | 3/8"          |
| ATISK3686-7S | W-603-7   | Socket, 8-Spline, Octagonal | 7/16"         |
| ATISK3686-8S | W-603-8   | Socket, 8-Spline, Octagonal | 1/2"          |
| ATISK3686-9S | W-603-9   | Socket, 8-Spline, Octagonal | 9/16"         |
| ATISK368610S | W-603-10  | Socket, 8-Spline, Octagonal | 5/8"          |



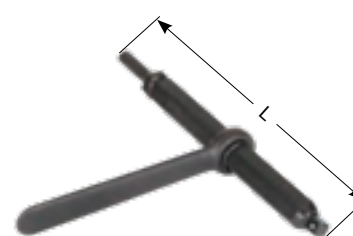
## SCREW REMOVAL TOOLS

### ATI540 SERIES

These tools are useful in removing screws that are corroded and cannot be loosened by conventional methods without skin damage. Designed with a parker taper .401 shank to fit most standard rivet guns and held in place by a retainer spring. Available with 3/8" male drive or 1/4" machined hex bit receptacle.

| Part Number | Type                                    | SHANK | OAL    |
|-------------|-----------------------------------------|-------|--------|
| ATI540      | 3/8" square drive                       | .401  | 9"     |
| ATI540S     | 3/8" square drive                       | .401  | 4-1/2" |
| ATI540BS-5  | 1/4" hex receptacle                     | .401  | 5-1/2" |
| ATI540BL-7  | 1/4" hex receptacle                     | .401  | 7-1/2" |
| *ATI540SE-5 | 1/4" hex bit adaptor, 3/8" square drive |       |        |

\*Use with ATI540 or ATI540S



ATI540



ATI540SE-5



**WARNING**



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## SHOP TOOLS

### SCREW REMOVAL TOOLS



#### EL BRUTUS....THE ORIGINAL

This unique assembly removes the most stubborn screws such as Phillips, Tri-Wing, Hi-Torque and more. Heat-treated and plated for long durability. A favorite of both military and airframe technicians.

| Part Number | Screw Capacity | Weight   | OAL     |
|-------------|----------------|----------|---------|
| ATI540-5    | #8 to 1/4"     | 3.2 lbs. | 17"     |
| ATI540-7    | 1/4" to 3/8"   | 5.4 lbs. | 18-3/4" |



ATI540-5

### MINA-VACS PNEUMATIC

#### ATI560C PLASTIC MODEL

#### ATI560M ALUMINUM MODEL

- Vacuum force more than twice the amount of other brands
- Removes objects such as clecos up to 3/4" diameter from confine spaces
- Built-in chip deflector to minimize bag damage
- Equipped with an "on" and "off" trigger button that can be locked in the "on" position
- Includes ATI560A-3 bag but no extension hose

| Vacuum Assembly | Housing Material | Extension Hose Part Number | Hose Material    | Hose Length | Bag Part Number |
|-----------------|------------------|----------------------------|------------------|-------------|-----------------|
| ATI560C         | PLASTIC          | N/A                        | N/A              | N/A         | ATI560A-3       |
| ATI560CWCF12    | PLASTIC          | ATI560CF12                 | FLEXIBLE PLASTIC | 12          | ATI560A-3       |
| ATI560CWCF18    | PLASTIC          | ATI560CF18                 | FLEXIBLE PLASTIC | 18          | ATI560A-3       |
| ATI560CWCF24    | PLASTIC          | ATI560CF24                 | FLEXIBLE PLASTIC | 24          | ATI560A-3       |
| ATI560M         | ALUMINUM         | N/A                        | N/A              | N/A         | ATI560A-3       |
| ATI560MF12      | ALUMINUM         | ATI560MFE12                | FLEXIBLE PLASTIC | 12          | ATI560A-3       |
| ATI560MF18      | ALUMINUM         | ATI560MFE18                | FLEXIBLE PLASTIC | 18          | ATI560A-3       |
| ATI560MF24      | ALUMINUM         | ATI560MFE24                | FLEXIBLE PLASTIC | 24          | ATI560A-3       |
| ATI560MF-36     | ALUMINUM         | ATI560MFE36                | FLEXIBLE PLASTIC | 36          | ATI560A-3       |
| ATI560MHDF18    | ALUMINUM         | ATI560MFE18                | FLEXIBLE PLASTIC | 18          | ATI560HD3       |
| ATI560MR-12     | ALUMINUM         | ATI560MRE12                | RIGID PLASTIC    | 12          | ATI560A-3       |
| ATI560MR18      | ALUMINUM         | ATI560MRE18                | RIGID PLASTIC    | 18          | ATI560A-3       |
| ATI560MR36      | ALUMINUM         | ATI560MRE36                | RIGID PLASTIC    | 36          | ATI560A-3       |



ATI560CF18



ATI560MFE18



ATI560MRE12



ATI560C



ATI560M

### MINA-VAC

#### ATI560MH MINA-VAC WITH HEPA BAG AND 12" PLASTIC HOSE

The ATI560MH uses the ATI560M aluminum housing for better strength and durability. Comes with a 3M filter bag and adaptor. HEPA bag reduces exposure to cadmium and hexavalent chromium dust. Airtight cap on filter bag insures FOD containment.

#### HEPA FILTER BAG

Part Number 70071472602

For use with ATI560MH only



### MINA-VAC ACCESSORIES

| Part Number | Description                                             |
|-------------|---------------------------------------------------------|
| ATI560A-3   | Vacuum Bag, Replacement for use with ATI560C or ATI560M |
| ATI560HD-3  | Vacuum Bag, Heavy Duty. Vinyl Reinforcement             |
| ATI560A-4   | Clip for Vacuum Bag                                     |
| ATI560R10   | Extension Tube, Rigid PVC, 12" OAL                      |



ATI560A-3



ATI560R10





## RATCHETING TORQUE WRENCH ASSEMBLY

**RTW Series**

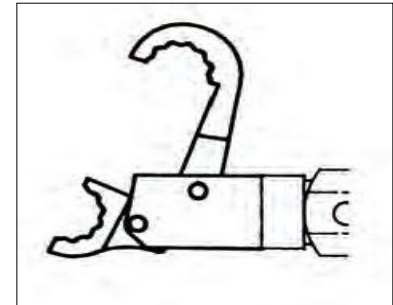
These ratcheting torque wrenches are designed for use on fuel-, hydraulic-, and oxygen-line fittings, where specific torque requirements are mandated. The assembly consists of pre-set "clicker" torque wrenches designed and manufactured by CDI Torque Products, and ratcheting jaws, plates, and adapter manufactured by ATI.

Order by BASIC PART NUMBER-HEX SIZE IN 1/64" INCREMENT- TORQUE REQUIREMENT (IN-LBS)

|     | Part Number | Description                          |
|-----|-------------|--------------------------------------|
| Ex. | RTW40-190   | 5/8" Ratcheting Jaws, 190 in. lbs.   |
| Ex. | RTW80-100   | 1-1/4" Ratcheting Jaws, 100 in. lbs. |

**FEATURES:**

- Torques in both right and left hand directions; automatic reset when force on handle is released
- Torque limiting positive sensory "click" when preset torque is reached
- Smooth knurled steel hand-hold for comfortable, safe grip
- Handle length proportioned to torque range of wrench for minimum user fatigue
- Tamper-proof torque setting for production line use
- Wrench assembly snaps open to accommodate existing installations
- Flank-drive, hardened-steel jaws
- All handle parts are made of alloy steel for maximum life and calibration retention
- Duratorque high duty alloy steel spring for accuracy and long life



## INTERCHANGEABLE RATCHET HEADS

**RTWH Series**

Order by BASIC PART NUMBER-HEX SIZE IN 1/64" INCREMENT- SHANK SIZE (J OR Y)

| Part Number | Description                           |
|-------------|---------------------------------------|
| RTWH28J     | 7/16" Ratchet Head Assembly, J Shank  |
| RTWH32J     | 1/2" Ratchet Head Assembly, J Shank   |
| RTWH36J     | 9/16" Ratchet Head Assembly, J Shank  |
| RTWH36Y     | 9/16" Ratchet Head Assembly, Y Shank  |
| RTWH40J     | 5/8" Ratchet Head Assembly, J Shank   |
| RTWH40Y     | 5/8" Ratchet Head Assembly, Y Shank   |
| RTWH44J     | 11/16" Ratchet Head Assembly, J Shank |
| RTWH48J     | 3/4" Ratchet Head Assembly, J Shank   |
| RTWH48Y     | 3/4" Ratchet Head Assembly, Y Shank   |
| RTWH52J     | 13/16" Ratchet Head Assembly, J Shank |
| RTWH56J     | 7/8" Ratchet Head Assembly, J Shank   |
| RTWH56Y     | 7/8" Ratchet Head Assembly, Y Shank   |
| RTWH60J     | 15/16" Ratchet Head Assembly, J Shank |
| RTWH60Y     | 15/16" Ratchet Head Assembly, Y Shank |

| Part Number | Description                           |
|-------------|---------------------------------------|
| RTWH64J     | 1" Ratchet Head Assembly, J Shank     |
| RTWH64Y     | 1" Ratchet Head Assembly, Y Shank     |
| RTWH72Y     | 1-1/8" Ratchet Head Assembly, Y Shank |
| RTWH80J     | 1-1/4" Ratchet Head Assembly, J Shank |
| RTWH80Y     | 1-1/4" Ratchet Head Assembly, Y Shank |
| RTWH88Y     | 1-3/8" Ratchet Head Assembly, Y Shank |
| RTWH96J     | 1-1/2" Ratchet Head Assembly, J Shank |
| RTWH96Y     | 1-1/2" Ratchet Head Assembly, Y Shank |
| RTWH104Y    | 1-5/8" Ratchet Head Assembly, Y Shank |
| RTWH120Y    | 1-7/8" Ratchet Head Assembly, Y Shank |
| RTWH128J    | 2" Ratchet Head Assembly, J Shank     |
| RTWH128Y    | 2" Ratchet Head Assembly, Y Shank     |
| RTWH136Y    | 2-1/8" Ratchet Head Assembly, Y Shank |

**WARNING**

**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.  
**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

SHOP TOOLS

VALVE CORE REMOVAL TOOL



- ATISK3614**
- For rapid and safe tire deflation
  - Machined aluminum tool threads into valve stem
  - Releases and traps the valve core within the tool
  - Exhausts the air through ports, away from the technician



DIGITAL PROTRACTOR

**ATIPRO360**

The ATIPRO360 Digital Protractor is a revolutionary tool that provides you with an immediate digital indication of level, plumb, and all the angles in between. The machined aluminum frame with integral base plate is a light, rigid, and ultra precise platform. State-of-the-art sensor and microprocessor circuit provides unsurpassed accuracy throughout the protractor's 360° range.

The ATIPRO360 features zero (alternate reference), a hold button to freeze displayed angle, simple calibration requiring no fixture and a one-year warranty.



CABLE TENSIO METERS

Pacific Scientific



The Pacific Scientific Type T60 is a simple, yet precise instrument designed for use in accurate rigging of airborne control cables. Used extensively worldwide, it has proven its durability under long and continual service. It is suitable for use over a wide range of tension measurements and different cable sizes, and can be used under extreme conditions of heat or cold without affecting the accuracy or readings.

| Part Number | Cable Size                      | Range   |
|-------------|---------------------------------|---------|
| T601001C81A | 1/16", 3/32", 1/8"              | 10-200  |
|             | 5/32", 3/16"                    | 30-300  |
|             | 7/32", 1/4"                     | 80-200  |
| T601001C91A | 1/8", 5/32", 3/16", 7/32", 1/4" | 150-400 |



TURNBUCKLE WRENCH, CABLE RIGGING TOOL

ATISP1001

This special cable rigging tool was designed to assist in adjusting turnbuckles on aircraft cable. The tool consists of two clamps joined by a 12" sprocket chain. When clamped to cable-end fittings on each side of the turnbuckle, the cable becomes stationary, allowing free turnbuckle adjustment.

| Part Number | Size       | Grip     |
|-------------|------------|----------|
| ATISP1001   | Light Duty | 0 - 1/2" |
| ATISP1002   | Heavy Duty | 0 - 5/8" |



The Pacific Scientific T5 is a low-cost, highly accurate, precision instrument that gives cable tension readings covering a wide range. No preliminary adjustments required before use. Not affected by heat or cold, one instrument handles many cable sizes. Small size permits entry through small openings.

| Part Number | Cable Size         | Range    |
|-------------|--------------------|----------|
| T5200210100 | 1/16", 3/32", 1/8" | 10-100   |
|             | 5/32", 3/16"       | 15-150   |
|             | 7/32", 1/4"        | 25-150   |
| T5200210400 | 1/16", 3/32", 1/8" | 30-200   |
|             | 5/32", 3/16"       | 30-300   |
|             | 7/32", 1/4"        | 30-300   |
| T5200411300 | 1/16", 3/32", 1/8" | 10-100   |
| T5800310600 | 3/16", 7/32", 1/4" | 40-600   |
|             | 5/16"              | 40-600   |
| T5800210500 | 1/16", 3/32", 1/8" | 30-200   |
|             | 5/32", 3/16"       | 30-400   |
|             | 7/32", 1/4"        | 30-400   |
| T5800221100 | 1/16", 3/32", 1/8" | 35-350   |
| T5800511000 | 3/16"              | 300-1600 |
|             | 7/32", 1/4"        | 300-1600 |
|             | 5/16"              | 300-1600 |
| T5800810600 | 1/8", 5/32"        | 40-600   |
|             | 3/16"              | 40-600   |
|             | 1/4"               | 40-600   |



**SAFETY PRECAUTION:** Read and follow all safety and operating instructions.

**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## CABLE SWAGING EQUIPMENT

ATI's Swaging and Pull Test equipment is regarded as the leader in the commercial and military aviation circles. Whether the cable assemblies are swaged within a traditional "tube shop" or making repairs on the flight line, ATI has the equipment and die sets to meet your requirements. Our AT1520JK and AT1520CTK are the most popular portable units for swaging and pull testing terminals on cable sizes 1/16" through 3/16".



*ATI offers full service and repair on our swaging equipment and calibration certification on our pull tester units. Please contact ATI customer service for more information.*



The ATI520D operates from an air supply of 30 cfm at 90 to 100 psi and 110 vac. A step-down transformer is available for overseas operation.

### **STATIONARY CABLE SWAGER** **ATI520D**

The ATI520D Stationary Swaging machine is a ruggedly constructed unit, weighing approximately 400 pounds and measuring 12" deep by 24" wide by 58" high. The new heavy duty yoke permits rapid installation and removal of dies and incorporates a shock absorbing feature to prevent breakage. The same quick change swaging and cutting dies are used in both portable (ATI520J) and stationary equipment. It is capable of swaging ball-end terminals such as AN663 up to the -6 (3/16 cable size), and sleeve-type terminals through -8 (1/4 cable size).

This tool approaches the capacity of a 50-ton punch-press and is able to swage over 90% of aircraft-type terminals. An outstanding feature of the ATI520D Cable Swager is the automatic swaging time controls. The operator merely sets the timer for the size fitting to be swaged, and the machine automatically stops when the work is completed.

Another feature of the machine is the "terminal clamping action". The machine is equipped with a two-stage foot switch. By depressing the switch to the first stage, the dies come together pneumatically and firmly clamp the terminals. At this point, the operator may make any terminal location adjustment he wishes. The foot switch is then depressed to the second stage and the electrically timed swaging action begins. When swaging time has been completed, the machine turns off and the dies automatically return to the full open position.

Die racks are built into the sides of the machine to accommodate the complete set of swaging and cutting dies. An air filter and lubricator provide dust-free air, plus oil to the power unit. Bolt holes are provided for floor installation.

### **STATIONARY CABLE SWAGER KIT** **ATI520DK**

The ATI520DK Stationary Cable Swager Kit includes the ATI520D Swager, and the 27 pair of swaging and cut-and-trim dies shown with the ATI520JK Portable Cable Swager Kit.



## PORTABLE CABLE SWAGER ATI520J



This light weight portable unit is designed to precision-swage cable terminals... even when used by operators with no previous experience. It can be used as a bench unit when mounted on the shock absorbing base, or taken directly to the scene of operation.

The ATI520J Swager, complete with base plate, air hose, and foot control, or any sets of dies, can be ordered separately.

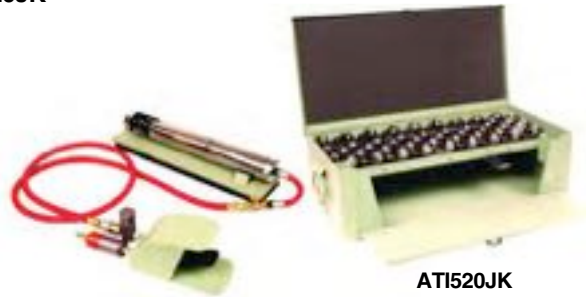
## SWAGE GAUGE ATI520SG



"Go" type gauge designed to check all swaged terminals within the capacity of the ATI520D and ATI520J swagers. Included with ATI520JK.

## SWAGING EQUIPMENT CABLE SWAGING EQUIPMENT AND SWAGING DIES

## PORTABLE CABLE SWAGER KIT ATI520JK



ATI520JK

The Kit is furnished with the ATI520J Swager, ATI520SG Swage Gauge, Felco C7 hand cable cutters, and ATISP1001 Turnbuckle Wrench, and all the dies shown below. The swager is designed to cold-flow the metal of the terminal into the interstices of the cable strands to which it is attached. Controlling factors are that the swaged terminal shall conform to specified dimensions, be free from fatigue fractures, and hold at least to the minimum rated breaking strength of the cable. Dies carried in stock are for standard MS sleeve-type and ball-end terminals. Cut-off and trim dies are manufactured in sizes to cut cable up to 1/4" in diameter without fraying or crushing wire strands, permitting rapid insertion of the terminal over the cable.

## ALL SWAGING DIES SOLD IN PAIRS; CUT AND TRIM DIES SOLD INDIVIDUALLY

For use with ATI520D and ATI520J Swagers.

### FOR DOUBLE SHANK BALL END TERMINALS

| Part Number | Cable Diameter | Terminal Ref. |
|-------------|----------------|---------------|
| ATI520CDB-2 | 1/16"          | MS20663-2     |
| ATI520CDB-3 | 1/32"          | MS20663-3     |
| ATI520CDB-4 | 1/8"           | MS20663-4     |
| ATI520CDB-5 | 5/32"          | MS20663-5     |
| ATI520CDB-6 | 3/16"          | MS20663-6     |

### FOR SINGLE SHANK BALL END TERMINALS

| Part Number | Cable Diameter | Terminal Ref. |
|-------------|----------------|---------------|
| ATI520CSB-2 | 1/16"          | MS20664-2     |
| ATI520CSB-3 | 1/32"          | MS20664-3     |
| ATI520CSB-4 | 1/8"           | MS20664-4     |
| ATI520CSB-5 | 5/32"          | MS20664-5     |
| ATI520CSB-6 | 3/16"          | MS20664-6     |

### FOR PLAIN BALL END TERMINALS

| Part Number | Cable Diameter | Terminal Ref. |
|-------------|----------------|---------------|
| ATI520CB-2  | 1/16"          | RA2487        |
| ATI520CB-3  | 1/32"          | RA2487        |
| ATI520CB-4  | 1/8"           | RA2487        |

### FOR SLEEVE TYPE TERMINALS

| Part Number | Cable Diameter | Terminal Dash No. |
|-------------|----------------|-------------------|
| ATI520CS-2  | 1/16"          | -2                |
| ATI520CS-3  | 1/32"          | -3                |
| ATI520CS-4  | 1/8"           | -4                |
| ATI520CS-5  | 5/32"          | -5                |
| ATI520CS-6  | 3/16"          | -6                |
| ATI520CS-7  | 7/32"          | -7                |
| ATI520CS-8  | 1/4"           | -8                |

### CABLE CUT-OFF AND TRIM DIES

| Part Number (Die) | Cable Diameter | Part Number (Punch) |
|-------------------|----------------|---------------------|
| ATI520CD-2        | 1/16"          | ATI520CP-2          |
| ATI520CD-3        | 1/32"          | ATI520CP-3          |
| ATI520CD-4        | 1/8"           | ATI520CP-4          |
| ATI520CD-5        | 5/32"          | ATI520CP-5          |
| ATI520CD-6        | 3/16"          | ATI520CP-6          |
| ATI520CD-7        | 7/32"          | ATI520CP-7          |
| ATI520CD-8        | 1/4"           | ATI520CP-8          |



**WARNING**



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**WARNING:** Face & eye protection must be worn while operating power tools, per ANSI B186.1

## SWAGING EQUIPMENT

### SWAGED CABLE TERMINAL PULL TESTER



#### ATI520CT

The ATI520CT Pull Tester is a self-contained hydraulic unit in which the tensile load applied to the cable and terminal assembly is produced by developing pressure in a hydraulic cylinder. The pressure in the cylinder is related to the pounds tension applied to the terminal and cable assembly, and is indicated by a direct-reading pressure gage calibrated in pounds tension. The face of the gage is graduated and indicated by cable size, and the respective 60% rated tensile strength. This terminal tester has the capacity to pull-test sizes and types of terminals which can be swaged by the ATI520J or ATI520D Swagers.



#### ATI520CTK

The ATI520CTK Portable Cable Pull Tester Kit is used in conjunction with the ATI520D and ATI520J Cable Swagers. It has been designed as a portable unit to enable Field Service Groups, Aircraft Manufacturers and Repair Depots to test swaged terminals.

During testing, the cable is held between two soft copper blocks which have been designed to avoid damage to the cable. The operation of this unit is simple and no experience or training is required to effectively test swaged terminals. The basic unit weighs 24-3/4 pounds, is 5-3/4" wide, 10-1/4" high and 23-1/8" long. It is light and small enough to be carried by one man. This compact size adds to its versatility and allows proof-loading of swaged terminals after the cable has been installed.



COMPLETE KIT CONSISTS OF THE FOLLOWING:  
(NOTE: Jaws are furnished in pairs)

| Part Number  | Legacy      | Item Description / cable diameter               |
|--------------|-------------|-------------------------------------------------|
| ATI520CT     | AT520CT     | Pull Tester complete with handle and jaw holder |
| ATI520CTD2   | AT520CTD-2  | COPPER JAWS-1/16"                               |
| ATI520CTD3   | AT520CTD-3  | COPPER JAWS-3/32"                               |
| ATI520CTD4   | AT520CTD-4  | COPPER JAWS-1/8"                                |
| ATI520CTD5   | AT520CTD-5  | COPPER JAWS-5/32"                               |
| ATI520CTD6   | AT520CTD-6  | COPPER JAWS-3/16"                               |
| ATI520CTD7   | AT520CTD-7  | COPPER JAWS-7/32"                               |
| ATI520CTD8   | AT520CTD-8  | COPPER JAWS-1/4"                                |
| ATI520CTF5   | AT520CTF-5  | ADAPTER 5/32" (use with 1/4" Dia Pin)           |
| ATI520CTF6   | AT520CTF-6  | ADAPTER 3/16" (use with 5/16" Dia Pin)          |
| ATI520CTF7   | AT520CTF-7  | ADAPTER 7/32" (use with 5/16" Dia Pin)          |
| ATI520CTF8   | AT520CTF-8  | ADAPTER 1/4" (use with 3/8" Dia Pin)            |
| ATI520CTP1   | AT520CTP-1  | 3/16" DIAMETER PIN W/KNURLED HEAD               |
| ATI520CTP2   | AT520CTP-2  | 1/4" DIAMETER PIN W/KNURLED HEAD                |
| ATI520CTP3   | AT520CTP-3  | 5/16" DIAMETER PIN W/KNURLED HEAD               |
| ATI520CTP4   | AT520CTP-4  | 3/8" DIAMETER PIN W/KNURLED HEAD                |
| ATI520CTS2   | AT520CTS-2  | BALL END TERMINAL ADAPTER 1/16"                 |
| ATI520CTS3   | AT520CTS-3  | BALL END TERMINAL ADAPTER 3/32"                 |
| ATI520CTS4   | AT520CTS-4  | BALL END TERMINAL ADAPTER 1/8"                  |
| ATI520CTS5   | AT520CTS-5  | BALL END TERMINAL ADAPTER 5/32"                 |
| ATI520CTS6   | AT520CTS-6  | BALL END TERMINAL ADAPTER 3/16"                 |
| ATI520CTT2RH | AT520CTT-2  | RH (#6-40) ADAPTER 1/16"                        |
| ATI520CTT20L | AT520CTT-20 | LH (#6-40) ADAPTER 1/16"                        |
| ATI520CTT3RH | AT520CTT-3  | RH (#10-32) ADAPTER 3/32"                       |
| ATI520CTT30L | AT520CTT-30 | LH (#10-32) ADAPTER 3/32"                       |
| ATI520CTT4RH | AT520CTT-4  | RH (1/4-28) ADAPTER 1/8" & 5/32"                |
| ATI520CTT40L | AT520CTT-40 | LH (1/4-28) ADAPTER 1/8" & 5/32"                |
| ATI520CTT6RH | AT520CTT-6  | RH (5/16-24) ADAPTER 3/16"                      |
| ATI520CTT60L | AT520CTT-60 | LH (5/16-24) ADAPTER 3/16"                      |
| ATI520CTT7RH | AT520CTT-7  | RH (3/8-24) ADAPTER 7/32" & 1/4"                |
| ATI520CTT70L | AT520CTT-70 | LH (3/8-24) ADAPTER 7/32" & 1/4"                |

#### CALIBRATION KIT

##### ATI520CGC

A Force Gage Kit with adaptors used to certify the cable tension indicator on the ATI520CT. This instrument will eliminate the necessity of outside calibration service.



ATI520CGC

### ATI520H

The ATI520H is furnished with an Enerpac pump which operates on air supply of 100-120 psi. Swaging is accomplished by applying a designated number of pressure increments while rotating the cable-terminal assembly. The swaging action is virtually maintenance-free, consisting of merely two moving parts.

An adapter is provided which allows the ATI520H to accept standard ATI520-series swaging dies, used with both the ATI520J and ATI520D pneumatic swagers. With that additional capability, this portable hydraulic unit can satisfy all aircraft-type cable swaging requirements.



### HYDRAULIC PORTABLE SWAGER KIT

#### ATI520HK

The ATI520HK consists of the ATI520H Swager, and thirteen pair of over-sized dies shown below. The kit includes a sleeve, which when installed, provides the operator the capability to swage with standard swaging dies as shown on the previous page.

| Part Number  | Cable Diameter | Terminal Ref.    |
|--------------|----------------|------------------|
| ATI520CDB-7  | 7/32"          | MS20663-7        |
| ATI520CDB-8  | 1/4"           | MS20663-8        |
| ATI520CDB-9  | 9/32"          | MS20663-9        |
| ATI520CDB-10 | 5/16"          | MS20663-10       |
| ATI520CSB-7  | 7/32"          | MS20664-7        |
| ATI520CSB-8  | 1/4"           | MS20664-8        |
| ATI520CSB-9  | 9/32"          | MS20664-9        |
| ATI520CSB-10 | 5/16"          | MS20664-10       |
| ATI520CB-10  | 5/16"          | RA2487           |
| ATI520CB-12  | 3/8"           | RA2487           |
| ATI520CS-9   | 9/32"          | MS21259          |
| ATI520CS-10  | 5/16"          | MS20667, MS20668 |
| ATI520CS-12  | 3/8"           | MS21260          |

### HYDRAULIC PULL TESTER KIT

#### ATI520HTK

The ATI520HTK Hydraulic Pull Tester Kit provides pull-test capabilities for all swaged terminal assemblies listed on this page.



# ATI TOOLS

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| ATI489B-14      | AT489B-14     | 65   | ATI3585-8A      | AT3585-8A        | 70   | ATI560HD-3      | AT560HD-3       | 76   | ATIS20CTT30LH   | ATIS20CTT-30 LH | 82   |
| ATI489B-13      | AT489B-13     | 65   | ATI3585-8B      | AT3585-8B        | 70   | 70071472602     | N/A             | 76   | ATIS20CTT3RH    | ATIS20CTT-3 RH  | 82   |
| ATI489B-12      | AT489B-12     | 65   | ATI3585-8C      | AT3585-8C        | 70   | ATI560R10       | AT560R-10       | 76   | ATIS20CTT20LH   | ATIS20CTT-20 LH | 82   |
| ATI489B-11      | AT489B-11     | 65   | ATI3588K        | AT3588K          | 70   | ATI560MRE36     | AT560MRE-36     | 76   | ATIS20CTT2RH    | ATIS20CTT-2 RH  | 82   |
| ATI489B-10      | AT489B-10     | 65   | ATI2979U        | AT2979U          | 70   | ATI560MRE18     | AT560MRE-18     | 76   | ATIS20CT5-6     | ATIS20CT5-6     | 82   |
| ATI489A-9       | AT489A-9      | 65   | PCP9            | PCP9             | 72   | ATI560MRE12     | AT560MRE-12     | 76   | ATIS20CT5-5     | ATIS20CT5-5     | 82   |
| ATI489A-8       | AT489A-8      | 65   | RCP8            | RCP8             | 72   | ATI560MR36      | AT560MR-36      | 76   | ATIS20CT5-4     | ATIS20CT5-4     | 82   |
| ATI489A-7       | AT489A-7      | 65   | ATI508SG        | AT508SG          | 72   | ATI560MR18      | AT560MR-18      | 76   | ATIS20CT5-3     | ATIS20CT5-3     | 82   |
| ATI489A-6       | AT489A-6      | 65   | ATI508S         | AT508S           | 72   | ATI560MR12      | AT560MR-12      | 76   | ATIS20CT5-2     | ATIS20CT5-2     | 82   |
| ATI489A-5       | AT489A-5      | 65   | ATI508K         | AT508K           | 72   | ATI560MHDF18    | AT560MHDF-18    | 76   | ATIS20CTP4      | ATIS20CTP-4     | 82   |
| ATI489A-4       | AT489A-4      | 65   | ATI508K-4       | AT508K-4         | 72   | ATI560MFE36     | AT560MFE-36     | 76   | ATIS20CTP3      | ATIS20CTP-3     | 82   |
| ATI489A-3       | AT489A-3      | 65   | ATI508K         | AT508K           | 72   | ATI560MFE24     | AT560MFE-24     | 76   | ATIS20CTP2      | ATIS20CTP-2     | 82   |
| ATI489A-2       | AT489A-2      | 65   | ACP8            | ACP8             | 72   | ATI560MFE18     | AT560MFE-18     | 76   | ATIS20CTP1      | ATIS20CTP-1     | 82   |
| ATI489A-11      | AT489A-11     | 65   | ATI044P3        | 04-4P3           | 72   | ATI560MFE12     | AT560MFE-12     | 76   | ATIS20CTK       | ATIS20CTK       | 82   |
| ATI489A-10      | AT489A-10     | 65   | ATI530          | AT530            | 73   | ATI560MF36      | AT560MF-36      | 76   | ATIS20CTF8      | ATIS20CTF-8     | 82   |
| ATI489A-1       | AT489A-1      | 65   | ATI556WNLX      | AT556WNLX        | 73   | ATI560MF24      | AT560MF-24      | 76   | ATIS20CTF7      | ATIS20CTF-7     | 82   |
| ATI488C-9       | AT488C-9      | 65   | ATI556WNLX      | AT556WNLX        | 73   | ATI560MF18      | AT560MF-18      | 76   | ATIS20CTF6      | ATIS20CTF-6     | 82   |
| ATI488C-8       | AT488C-8      | 65   | ATI556MHD       | AT556MHD         | 73   | ATI560MF12      | AT560MF-12      | 76   | ATIS20CTF5      | ATIS20CTF-5     | 82   |
| ATI488C-7       | AT488C-7      | 65   | ATI556M         | AT556M           | 73   | ATI560M         | AT560M          | 76   | ATIS20CTD8      | ATIS20CTD-8     | 82   |
| ATI488C-6       | AT488C-6      | 65   | ATI554WNLX      | AT554WNLX        | 73   | ATI560HD3       | AT560HD-3       | 76   | ATIS20CTD7      | ATIS20CTD-7     | 82   |
| ATI488C-5       | AT488C-5      | 65   | ATI554WNLX      | AT554WNLX        | 73   | ATI560CF24      | AT560CF-24      | 76   | ATIS20CTD6      | ATIS20CTD-6     | 82   |
| ATI488C-4       | AT488C-4      | 65   | ATI554MHD       | AT554MHD         | 73   | ATI560CF18      | AT560CF-18      | 76   | ATIS20CTD5      | ATIS20CTD-5     | 82   |
| ATI488C-32      | AT488C-32     | 65   | ATI554M         | AT554M           | 73   | ATI560CF12      | AT560CF-12      | 76   | ATIS20CTD4      | ATIS20CTD-4     | 82   |
| ATI488C-31      | AT488C-31     | 65   | ATI553WNLX      | AT553WNLX        | 73   | ATI560CWCF24    | AT560C W/CF-24  | 76   | ATIS20CTD3      | ATIS20CTD-3     | 82   |
| ATI488C-30      | AT488C-30     | 65   | ATI553WNLX      | AT553WNLX        | 73   | ATI560CWCF18    | AT560C W/CF-18  | 76   | ATIS20CTD2      | ATIS20CTD-2     | 82   |
| ATI488C-29      | AT488C-29     | 65   | ATI553SG        | AT553SG          | 73   | ATI560CWCF12    | AT560C W/CF-12  | 76   | ATIS20CT        | ATIS20CT        | 82   |
| ATI488C-28      | AT488C-28     | 65   | ATI553MHD       | AT553MHD         | 73   | ATI560C         | AT560C          | 76   | ATIS20CB-10     | ATIS20CB-10     | 83   |
| ATI488C-27      | AT488C-27     | 65   | ATI553M         | AT553M           | 73   | ATI560A-4       | AT560A-4        | 76   | ATIS20CB-12     | ATIS20CB-12     | 83   |
| ATI488C-26      | AT488C-26     | 65   | ATI552WNLX      | AT552WNLX        | 73   | ATI560A-3       | AT560A-3        | 76   | ATIS20CB-7      | ATIS20CB-7      | 83   |
| ATI488C-25      | AT488C-25     | 65   | ATI552SG        | AT552SG          | 73   | ATI540-7        | AT540 #7        | 76   | ATIS20CB-8      | ATIS20CB-8      | 83   |
| ATI488C-24      | AT488C-24     | 65   | ATI552MHD       | AT552MHD         | 73   | ATI540-5        | AT540 #5        | 76   | ATIS20CB-9      | ATIS20CB-9      | 83   |
| ATI488C-23      | AT488C-23     | 65   | ATI552M         | AT552M           | 73   | RTW40-190       | N/A             | 77   | ATIS20CS-10     | ATIS20CS-10     | 83   |
| ATI488C-22      | AT488C-22     |      |                 |                  |      |                 |                 |      |                 |                 |      |

## DECIMAL EQUIVALENTS

| DRILL SIZE | MM   | DECIMAL INCHES | DRILL SIZE | MM   | DECIMAL INCHES | DRILL SIZE | MM    | DECIMAL INCHES | DRILL SIZE | MM    | DECIMAL INCHES |
|------------|------|----------------|------------|------|----------------|------------|-------|----------------|------------|-------|----------------|
|            | 0.10 | .0039          | 45         | 2.08 | .0820          | 5          | 5.22  | .2055          | 7/16       | 11.11 | .4375          |
|            | 0.20 | .0079          | 44         | 2.18 | .0860          | 4          | 5.31  | .2090          | 29/64      | 11.51 | .4531          |
|            | 0.25 | .0098          | 43         | 2.26 | .0890          | 3          | 5.41  | .2130          | 15/32      | 11.91 | .4688          |
|            | 0.30 | .0118          | 42         | 2.37 | .0935          | 7/32       | 5.56  | .2188          | -          | 12.00 | .4724          |
| 80         | 0.34 | .0135          | 3/32       | 2.38 | .0938          | 2          | 5.61  | .2210          | 31/64      | 12.30 | .4844          |
| 79         | 0.37 | .0145          | 41         | 2.44 | .0960          | 1          | 5.79  | .2280          | 1/2        | 12.70 | .5000          |
| 1/64       | 0.40 | .0156          | 40         | 2.50 | .0980          | A          | 5.94  | .2340          | -          | 13.00 | .5118          |
| 78         | 0.41 | .0160          | 39         | 2.53 | .0995          | 15/64      | 5.95  | .2344          | 33/64      | 13.10 | .5156          |
| 77         | 0.46 | .0180          | 38         | 2.58 | .1015          | -          | 6.00  | .2362          | 17/32      | 13.49 | .5312          |
| -          | 0.50 | .0197          | 37         | 2.64 | .1040          | B          | 6.05  | .2380          | 35/64      | 13.89 | .5469          |
| 76         | 0.51 | .0200          | 36         | 2.71 | .1065          | C          | 6.15  | .2420          | -          | 14.00 | .5512          |
| 75         | 0.53 | .0210          | 7/64       | 2.78 | .1094          | D          | 6.25  | .2460          | 9/16       | 14.29 | .5625          |
| 74         | 0.57 | .0225          | 35         | 2.79 | .1100          | 1/4        | 6.35  | .2500          | 37/64      | 14.68 | .5781          |
| -          | 0.60 | .0236          | 34         | 2.82 | .1110          | E          | 6.35  | .2500          | -          | 15.00 | .5906          |
| 73         | 0.61 | .0240          | 33         | 2.87 | .1130          | F          | 6.53  | .2570          | 19/32      | 15.08 | .5938          |
| 72         | 0.64 | .0250          | 32         | 2.95 | .1160          | G          | 6.63  | .2610          | 39/64      | 15.48 | .6094          |
| 71         | 0.66 | .0260          | -          | 3.00 | .1181          | 17/64      | 6.75  | .2656          | 5/8        | 15.88 | .6250          |
| -          | 0.70 | .0276          | 31         | 3.05 | .1200          | H          | 6.76  | .2660          | -          | 16.00 | .6299          |
| 70         | 0.71 | .0280          | 1/8        | 3.18 | .1250          | I          | 6.91  | .2720          | 41/64      | 16.27 | .6406          |
| 69         | 0.74 | .0292          | 30         | 3.26 | .1285          | -          | 7.00  | .2756          | 21/32      | 16.67 | .6562          |
| -          | 0.75 | .0295          | 29         | 3.45 | .1360          | J          | 7.04  | .2770          | -          | 17.00 | .6693          |
| 68         | 0.79 | .0310          | 28         | 3.57 | .1405          | K          | 7.14  | .2810          | 43/64      | 17.07 | .6719          |
| 1/32       | 0.79 | .0313          | 9/64       | 3.57 | .1406          | 9/32       | 7.14  | .2812          | 11/16      | 17.46 | .6875          |
| -          | 0.80 | .0315          | 27         | 3.66 | .1440          | L          | 7.37  | .2900          | 45/64      | 17.86 | .7031          |
| 67         | 0.81 | .0320          | 26         | 3.73 | .1470          | M          | 7.49  | .2950          | -          | 18.00 | .7087          |
| 66         | 0.84 | .0330          | 25         | 3.8  | .1495          | 19/64      | 7.54  | .2969          | 23/32      | 18.26 | .7188          |
| 65         | 0.89 | .0350          | 24         | 3.86 | .1520          | N          | 7.67  | .3020          | 47/64      | 18.65 | .7344          |
| -          | 0.90 | .0354          | 23         | 3.91 | .1540          | 5/16       | 7.94  | .3125          | -          | 19.00 | .7480          |
| 64         | 0.91 | .0360          | 5/32       | 3.97 | .1562          | -          | 8.00  | .3150          | 3/4        | 19.05 | .7500          |
| 63         | 0.94 | .0370          | 22         | 3.99 | .1570          | O          | 8.03  | .3160          | 49/64      | 19.45 | .7656          |
| 62         | 0.97 | .0380          | -          | 4.00 | .1575          | P          | 8.20  | .3230          | 25/32      | 19.84 | .7812          |
| 61         | 0.99 | .0390          | 21         | 4.04 | .1590          | 21/64      | 8.33  | .3281          | -          | 20.00 | .7874          |
| -          | 1.00 | .0394          | 20         | 4.09 | .1610          | Q          | 8.43  | .3320          | 51/64      | 20.24 | .7969          |
| 60         | 1.02 | .0400          | 19         | 4.22 | .1660          | R          | 8.61  | .3390          | 13/16      | 20.64 | .8125          |
| 59         | 1.04 | .0410          | 18         | 4.31 | .1695          | 11/32      | 8.73  | .3438          | -          | 21.00 | .8268          |
| 58         | 1.07 | .0420          | 11/64      | 4.37 | .1719          | S          | 8.84  | .3480          | 53/64      | 21.03 | .8281          |
| 57         | 1.09 | .0430          | 17         | 4.39 | .1730          | -          | 9.00  | .3543          | 27/32      | 21.43 | .8438          |
| 56         | 1.18 | .0465          | 16         | 4.50 | .1770          | T          | 9.09  | .3580          | 55/64      | 21.84 | .8594          |
| 3/64       | 1.19 | .0469          | 15         | 4.57 | .1800          | 23/64      | 9.13  | .3594          | -          | 22.00 | .8661          |
| 55         | 1.32 | .0520          | 14         | 4.62 | .1820          | U          | 9.35  | .3680          | 7/8        | 22.23 | .8750          |
| 54         | 1.40 | .0550          | 13         | 4.70 | .1850          | 3/8        | 9.53  | .3750          | 57/64      | 22.62 | .8906          |
| 53         | 1.51 | .0595          | 3/16       | 4.76 | .1875          | V          | 9.56  | .3770          | -          | 23.00 | .9055          |
| 1/16       | 1.59 | .0625          | 12         | 4.80 | .1890          | W          | 9.80  | .3860          | 29/32      | 23.02 | .9062          |
| 52         | 1.61 | .0635          | 11         | 4.85 | .1910          | 25/64      | 9.92  | .3906          | 59/64      | 23.42 | .9219          |
| 51         | 1.70 | .0670          | 10         | 4.91 | .1935          | -          | 10.00 | .3937          | 15/16      | 23.81 | .9375          |
| 50         | 1.78 | .0700          | 9          | 4.98 | .1960          | X          | 10.08 | .3970          | -          | 24.00 | .9449          |
| 49         | 1.85 | .0730          | -          | 5.00 | .1968          | Y          | 10.26 | .4040          | 61/64      | 24.21 | .9531          |
| 48         | 1.93 | .0760          | 8          | 5.05 | .1990          | 13/32      | 10.32 | .4062          | 31/32      | 24.61 | .9688          |
| 5/64       | 1.98 | .0781          | 7          | 5.11 | .2010          | Z          | 10.49 | .4130          | -          | 25.00 | .9842          |
| 47         | 1.99 | .0785          | 13/64      | 5.16 | .2031          | 27/64      | 10.72 | .4219          | 63/64      | 25.00 | .9844          |
| -          | 2.00 | .0787          | 6          | 5.18 | .2040          | -          | 11.00 | .4331          | 1          | 25.40 | 1.000          |
| 46         | 2.06 | .0810          |            |      |                |            |       |                |            |       |                |



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