

DRILLING • RIVETING • COUNTERSINKING • BUCKING



ATI[®] TOOLS

A Snap-on Specialty Tools Brand

Snap-on

Specialty Tools

AIRFRAME TOOLING FOR PRODUCTION & MAINTENANCE

WHEREVER YOUR TOOLING NEED TAKES YOU, COUNT ON US TO GET YOU THERE.

- Military and Commercial Manufacturers
- Airline and MROs
- Airframe and Sheet Metal Mechanics



ATI TOOLS

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AIRFRAME TOOLING FOR PRODUCTION & MAINTENANCE

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*additional items not pictured in catalog

To view the new ATI Tools Catalog online, please visit www.ATITools.com.

A SEVENTY-YEAR HERITAGE OF SERVING OEM CUSTOMERS AND AIRLINES

ATI was formed in 1938 in Los Angeles and incorporated as Aircraft Tools, Inc., in 1949. ATI, an aviation legendary brand, was acquired by Snap-on Incorporated in 1986. The ATI brand is managed by Snap-on Specialty Tools in City of Industry, California.

ONE OF THE WIDEST-RANGING PRODUCT LINES

ATI's precision, quality products are both specialized and commercial tools for airframe production, maintenance and repair. Our extensive product line spans from cable swaging, drilling and aluminum cutting to specialized torque tools and every imaginable tool for airframe fasteners.

A MARKETING NETWORK THAT SPANS THE GLOBE

ATI products are marketed through an extensive network of regional, national and global distribution channels serving OEM, FBO and MRO facilities. In 2007, we began marketing tools through Snap-on Asia's extensive network of resellers.

CUSTOMER CARE

We offer a more extensive worldwide network of professionals to aid you. Whether it's answering technical questions, designing new service kits, modifying existing kits or ordering complete kits and individual components, ATI gives you everything you need for the supply and support of aircraft tooling.

WE'RE TECHNICAL EXPERTS

If you need assistance with product configuration or application please contact our customer service department to talk with a specialist to answer your specific questions. ATI provides you with a vast network of industry support staff including sales, worldwide distributors, a professional call center, and convenient access to our print and online catalogs.

SATISFACTION GUARANTEED

ATI offers consumable production tools and warranties all material and workmanship for 90-day from the purchase date.



Snap-on Specialty Tools facility, City of Industry, California.

ENGINEERING THAT EXCEEDS INDUSTRY STANDARDS

What sets ATI apart? It begins with our innovative design. Precise heat treatment specification and rigid inspection standards. That all adds up to safe, functional and cost-effective aircraft tools that don't just meet the aviation industry's standards. They exceed them. Thanks to our ongoing quality standard reviews and training for our employees, we're able to maintain standards that very few companies can compete with.

All ATI and Industrial custom tools adhere to rigid engineering standards including:

Certified:

ISO 9001:2000 Certificate No.: CERT-08745-2006-AQ-HOU-ANAB

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

18001-1999 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



NOBODY COMPARES TO ATI TOOLS

Seventy years is a long time to be building tools for the aviation industry. Over that time, we've built every imaginable tool when it comes to drilling, countersinking, riveting and bucking. Moreover, we've built a reputation for excellence that's unrivaled. When you compare the difference between our products and other companies, you'll see why.

THE ULTIMATE IN RIVET TOOLS

ATI rivet sets incorporate a wide variety of features and benefits not found in other tools.

- Manufactured from S2 high-grade, shock-resistant steel
- Highly polished cup. Free of machine marks and ridges
- Chamfered corners
- Blended radius between cup and chamfer
No sharp edges that coin or mar skin
Cups machined in accordance with MIL-STD GGG-R-425
- Protected with plastic coating to prevent damage during shipment and storage
- Part number stamped designating rivet size, safety notice, and made in USA
- Available from stock in overall lengths of 2-1/2", 3-1/2", 5-1/2", 7-1/2" and 10-1/2", for rivet sizes 3/32", 1/8", 5/32", 3/16" and 1/4"



CUTTING TOOLS ON THE CUTTING EDGE

Recognized as the leading producer of quality cutting tools, ATI continues an intensive research program to improve its products.

TWO-FLUTED CUTTERS

- Ground on-centers to ensure concentricity and eliminate runout
- 100-degree cutting angle for AN426 flush head rivets
- 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



MICROSTOPS FOR 1/4"-28 MALE THREADED COUNTERSINK CUTTERS

D441HSS

- Shaft rides on bronze bushing
- Boasts fast, accurate countersinking at a minimum cost
- Favored by homebuilders, manufacturers and maintenance facilities
- Comes standard with ATI440A-1X skirt, with ATI440A Phenolic Insert



ATI441HSS

- ATI's most popular model
- Shaft rides on two races of needle bearings ensuring continuous, smooth cool operation at speeds to 5000 rpm
- Ball thrust bearing ensures accuracy and repeatability of the depth setting, which is adjustable in .001 increments



ATI441HSBS-.0005

- ATI's highest-rated production model
- Hardened ball bearings and .0005 depth adjustment accommodate standard fasteners as well as Briles at speeds to 10,000 rpm
- Other features include left-hand threaded locking ring, and three chucking flats on the shaft
- Also available with .001 depth adjustment (ATI441HSBS)



PREMIUM BUCKING BARS THAT ARE UNMATCHED

There are two categories of bucking bars, cast and fabricated. No matter which you choose, ATI bucking bars are the best value available. Here's why:

- CNC machined bars
- Cast bars are manufactured from nonporous high-grade ductile iron
- Machined bars are carburized .015" deep, minimum
- Cast bars are treated 100% to ensure maximum wearability
- 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.



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. Featured below are two of our most popular portable units for swaging and pull testing terminals on cable sizes 1/16" through 3/16".

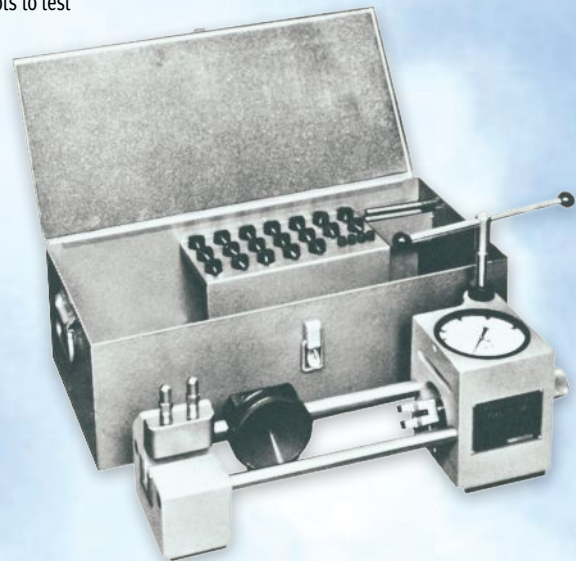
ATI520JK PORTABLE PNEUMATIC CABLE SWAGER KIT

This portable unit is designed to precision-swage cable terminals per the 'MS' requirements. This kit contains all the dies required to swage 'MS' ball and sleeve type terminals from 1/16" up through 3/16" diameter cable. Cut-off and trim dies are also included to cut cable from 1/16" up through 1/4" diameter cable. Operation and set-up is straight forward which allows operators with minimal experience to produce 'MS' quality swaged terminals.



ATI520CTK PORTABLE CABLE PULL TESTER KIT

The ATI520CTK is a self-contained hydraulic unit which allows for pull testing of various swaged 'MS' terminals on cable diameters 1/16" up through 1/4" without damaging the braided cable or terminals. This portable unit is designed to enable Field Service Groups, Aircraft Manufacturers, and Repair Depots to test swaged terminals in new assemblies and after making repairs.



PRECISION TOOLS SINCE 1938.

With years of experience in Airframe tooling, we have every imaginable tool when it comes to Drilling, Countersinking, Riveting and Bucking procedures. When you need the right answer on Airframe maintenance and repair tools, we're unmatched in the market place. And if we don't have the right answer in stock, we have a full service staff of experts who can create a custom tool solution made to your specific needs that will have you covered.

Our engineering and quality control process adheres to very rigid standards that we stand behind.



Drilling



Riveting



Countersinking



Bucking

Edge Breakers



ATI514

ATI514 Sheet Metal Edge Breaker.
Quickly removes burrs or sharp edges from any type of sheet metal stock with a hand shield to prevent injury. NSN #5110-01-428-9676



ATISP225

ATISP225 Carbide Double Edge Scraper.
Double-sided, indexable, carbide inserts, quickly removes burrs or sharp edges from any type of hardness of sheet metal stock with a hand shield to prevent injury. NSN #5110-01-368-5847

Burnishing Tools

ATI515 Burnish Tool.

Heat-treated blade is hard chrome plated and polished to mirror finish. Designed to remove surface blemishes on material. Large safety handle ensures comfortable grip. NSN #5120-01-428-5626



ATI515

Side Grip Clamps



ATI550SG

ATI550SG Spring Tension Side Grip Clamp - Pliers Operated.

This clamp accommodates a material capacity up to 3/4" thickness and reaches up to 1" in depth. The jaw (cast) with steel spring provides 60 pounds of clamping pressure. May be used in conjunction with optional ATI508S pliers.



ATI551SG

ATI551SG Spring Tension Side Grip Clamp - Pliers Operated.

This clamp accommodates a material capacity up to 3/4" thickness and reaches up to 1/2" in depth. The jaw (cast) with steel spring provides 60 pounds of clamping pressure. May be used in conjunction with optional ATI508S pliers.



ATI552SG

ATI552SG Spring Tension Side Grip Clamp - Pliers Operated.

This clamp accommodates a material capacity up to 1/2" thickness and reaches up to 1" in depth. The jaw (cast) with steel spring provides 60 pounds of clamping pressure. May be used in conjunction with optional ATI508S pliers.

Spring Tension Clamps



ATI542

ATI542 Spring Tension U - Clamp - Pliers Operated.

This clamp accommodates a material capacity up to 7/16" thickness and reaches up to 2" in depth. The Zamak alloy yoke (cast) and a steel spring which provides 70 pounds of clamping pressure. May be used in conjunction with optional ATI508S pliers. NSN #5120-01-428-5605



ATI542S

ATI542S Spring Tension U - Clamp - Pliers Operated.

This clamp accommodates a material capacity up to 7/16" thickness and reaches up to 2" in depth. The steel yoke is used where extreme heat would affect an alloy metal. The steel spring provides 70 pounds of clamping pressure. May be used in conjunction with optional ATI508S pliers. NSN #5120-01-428-5579

Pliers, Spring Tension Clamps



04-4P3

04-4P3 Camloc Plier.

For Camloc Fasteners, stud series 2000, 2700 and 4002.



ATI508S

ATI508S Sheet Holder Plier.

Made from forged steel. Use on plier operated spring tension clamps and all spring loaded type fasteners. NSN #5120-01-368-3971



ATI508SG

ATI508SG Sheet Holder Plier with Grips.

Made from forged steel. Used with spring tension clamps and all spring loaded type fasteners.

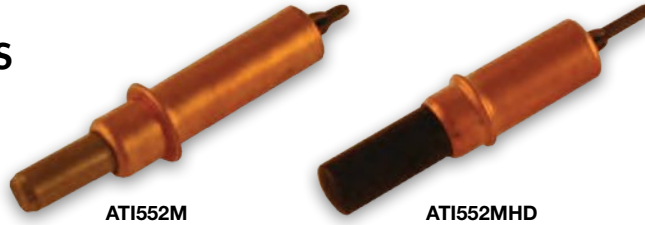


WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).

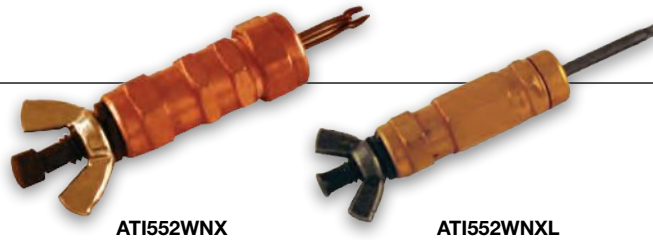


Plier Operated Fasteners



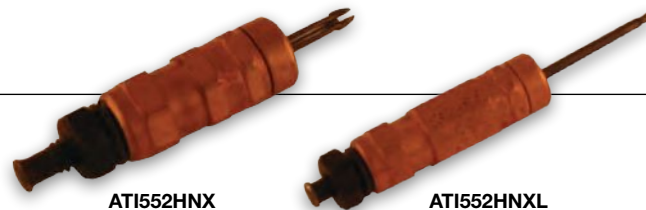
| Part Number | Description | Capacity | Drill Size | Material |
|-------------|--------------------------------------|--------------------|--------------------------|----------|
| ATI551M | PLIER OPERATED, Standard | 0 - 1/4" capacity, | 3/32" size for #40 drill | (Zinc) |
| ATI552M | | 0 - 1/4" capacity, | 1/8" size for #30 drill | (Copper) |
| ATI553M | PLIER OPERATED, Heavy Duty, Standard | 0 - 1/4" capacity, | 5/32" size for #20 drill | (Black) |
| ATI554M | | 0 - 1/4" capacity, | 3/16" size for #10 drill | (Brass) |
| ATI556M | PLIER OPERATED, Heavy Duty, Standard | 0 - 1/4" capacity, | 1/4" size for 1/4" drill | (Copper) |
| ATIMHD-3/32 | | 0 - 1/2" capacity, | 3/32" size for #40 drill | (Zinc) |
| ATIMHD-1/8 | PLIER OPERATED, Heavy Duty, Standard | 0 - 1/2" capacity, | 1/8" size for #30 drill | (Copper) |
| ATIMHD-5/32 | | 0 - 1/2" capacity, | 5/32" size for #20 drill | (Black) |
| ATIMHD-3/16 | PLIER OPERATED, Heavy Duty, Standard | 0 - 1/2" capacity, | 3/16" size for #10 drill | (Brass) |
| ATIMHD-7/32 | | 0 - 1/2" capacity, | 7/32" size for #2 drill | (Zinc) |
| ATIMHD-1/4 | PLIER OPERATED, Heavy Duty, Standard | 0 - 1/2" capacity, | 1/4" size for 1/4" drill | (Copper) |

Manually Operated Fasteners



| Part Number | Description | Capacity | Drill Size | Material |
|-------------|-----------------------------------|--------------------|--------------------------|----------|
| ATI551WNX | HAND OPERATED, Wing Nut, Standard | 0 - 1/2" capacity, | 3/32" size for #40 drill | (Zinc) |
| ATI552WNX | | 0 - 1/2" capacity, | 1/8" size for #30 drill | (Copper) |
| ATI553WNX | HAND OPERATED, Wing Nut, Standard | 0 - 1/2" capacity, | 5/32" size for #20 drill | (Black) |
| ATI554WNX | | 0 - 1/2" capacity, | 3/16" size for #10 drill | (Black) |
| ATI556WNX | HAND OPERATED, Wing Nut, Long | 0 - 1/2" capacity, | 1/4" size for 1/4" drill | (Copper) |
| ATI551WNL | | 0 - 1" capacity, | 3/32" size for #40 drill | (Zinc) |
| ATI552WNL | HAND OPERATED, Wing Nut, Long | 0 - 1" capacity, | 1/8" size for #30 drill | (Copper) |
| ATI553WNL | | 0 - 1" capacity, | 5/32" size for #20 drill | (Black) |
| ATI554WNL | HAND OPERATED, Wing Nut, Long | 0 - 1" capacity, | 3/16" size for #10 drill | (Brass) |
| ATI556WNL | | 0 - 1" capacity, | 1/4" size for 1/4" drill | (Copper) |

Power Operated Fasteners



| Part Number | Description | Capacity | Drill Size | Material |
|-------------|-----------------------------------|--------------------|--------------------------|----------|
| ATI551HNX | POWER OPERATED, Hex Nut, Standard | 0 - 1/2" capacity, | 3/32" size for #40 drill | (Zinc) |
| ATI552HNX | | 0 - 1/2" capacity, | 1/8" size for #30 drill | (Copper) |
| ATI553HNX | POWER OPERATED, Hex Nut, Standard | 0 - 1/2" capacity, | 5/32" size for #20 drill | (Black) |
| ATI554HNX | | 0 - 1/2" capacity, | 3/16" size for #10 drill | (Brass) |
| ATI556HNX | POWER OPERATED, Hex Nut, Long | 0 - 1/2" capacity, | 1/4" size for 1/4" drill | (Copper) |
| ATI551HNXL | | 0 - 1" capacity, | 3/32" size for #40 drill | (Zinc) |
| ATI552HNXL | POWER OPERATED, Hex Nut, Long | 0 - 1" capacity, | 1/8" size for #30 drill | (Copper) |
| ATI553HNXL | | 0 - 1" capacity, | 5/32" size for #20 drill | (Black) |
| ATI554HNXL | POWER OPERATED, Hex Nut, Long | 0 - 1" capacity, | 3/16" size for #10 drill | (Brass) |
| ATI556HNXL | | 0 - 1" capacity, | 1/4" size for 1/4" drill | (Copper) |

Carbide Burs

Carbide Burs.

These double cut burs were designed to substantially cut manufacturer's production costs. The design and cut removes more material per hour, engineered for heavy-duty applications, more durable due to the depth of the teeth, more resistant to chipping, wider teeth make longer chips so it breaks up easier and the profile of the teeth are less prone to filling up with chips.



CYLINDER PLAIN

| Head Dia. | Head Length | Overall Length | Shank | SCTI | Bear Cut | Description |
|-----------|-------------|----------------|-------|------|--------------|-------------|
| 1/4" | 5/8" | 2" | 1/4" | SA1 | ATI32.546SY | CYL/PLAIN |
| 3/8" | 3/4" | 2-1/2" | 1/4" | SA5 | ATI32.552SY | CYL/PLAIN |
| 7/16" | 1" | 2-1/2" | 1/4" | SA4 | ATI3255320SY | CYL/PLAIN |
| 1/2" | 1" | 2-1/2" | 1/4" | SA5 | ATI32.555SY | CYL/PLAIN |
| 5/8" | 1" | 2-1/2" | 1/4" | SA6 | ATI32.558SY | CYL/PLAIN |

BALL

| Head Dia. | Head Length | Overall Length | Shank | SCTI | Bear Cut | Description |
|-----------|-------------|----------------|-------|------|--------------|-------------|
| 3/8" | 5/16" | 2-1/16" | 1/4" | SD3 | ATI32.645SY | BALL |
| 7/16" | 3/8" | 2-1/8" | 1/4" | SD4 | ATI3264602SY | BALL |
| 1/2" | 7/16" | 2-3/16" | 1/4" | SD5 | ATI32.648SY | BALL |
| 5/8" | 9/16" | 2-5/16" | 1/4" | SD6 | ATI32.651SY | BALL |

CYLINDER RADIUS

| Head Dia. | Head Length | Overall Length | Shank | SCTI | Bear Cut | Description |
|-----------|-------------|----------------|-------|------|--------------|-------------|
| 3/8" | 3/4" | 2-1/2" | 1/4" | SC3 | ATI32.618SY | CYL/RADIUS |
| 7/16" | 1" | 2-3/4" | 1/4" | SC4 | ATI3261912SY | CYL/RADIUS |
| 1/2" | 1" | 2-3/4" | 1/4" | SC5 | ATI32.621SY | CYL/RADIUS |
| 5/8" | 1" | 2-3/4" | 1/4" | SC6 | ATI32.624SY | CYL/RADIUS |

OVAL

| Head Dia. | Head Length | Overall Length | Shank | SCTI | Bear Cut | Description |
|-----------|-------------|----------------|-------|------|-------------|-------------|
| 3/8" | 19/32" | 2-11/32" | 1/4" | SE3 | ATI32.663SY | OVAL |
| 1/2" | 7/8" | 2-5/8" | 1/4" | SE5 | ATI32.666SY | OVAL |
| 5/8" | 1" | 2-3/4" | 1/4" | SE6 | ATI32.669SY | OVAL |

CONE POINTED

| Head Dia. | Head Length | Overall Length | Shank | SCTI | Bear Cut | Description |
|-----------|-------------|----------------|-------|------|-------------|-------------|
| 3/8" | 3/4" | 2-1/2" | 1/4" | SM4 | ATI32.747SY | 28° ANGLE |
| 1/2" | 1" | 2-3/4" | 1/4" | SM5 | ATI32.750SY | 28° ANGLE |
| 5/8" | 1-1/8" | 2-7/8" | 1/4" | SM6 | ATI32.753SY | 28° ANGLE |

TREE POINTED

| Head Dia. | Head Length | Overall Length | Shank | SCTI | Bear Cut | Description |
|-----------|-------------|----------------|-------|------|-------------|--------------|
| 3/8" | 3/4" | 2-1/2" | 1/4" | SG3 | ATI32.687SY | TREE/POINTED |
| 1/2" | 3/4" | 2-1/2" | 1/4" | SG13 | ATI32.690SY | TREE/POINTED |
| 1/2" | 1" | 2-3/4" | 1/4" | SG5 | ATI32.693SY | TREE/POINTED |
| 5/8" | 1" | 2-3/4" | 1/4" | SG6 | ATI32.696SY | TREE/POINTED |

TREE RADIUS

| Head Dia. | Head Length | Overall Length | Shank | SCTI | Bear Cut | Description |
|-----------|-------------|----------------|-------|------|--------------|-------------|
| 3/8" | 3/4" | 2-1/2" | 1/4" | SF3 | ATI32.705SY | TREE/RADIUS |
| 7/16" | 1" | 2-3/4" | 1/4" | SF4 | ATI3270602SY | TREE/RADIUS |
| 1/2" | 3/4" | 2-1/2" | 1/4" | SF13 | ATI3270610SY | TREE/RADIUS |
| 1/2" | 1" | 2-3/4" | 1/4" | SF5 | ATI32.708SY | TREE/RADIUS |
| 5/8" | 1" | 2-3/4" | 1/4" | SF6 | ATI32.711SY | TREE/RADIUS |

CONE RADIUS

| Head Dia. | Head Length | Overall Length | Shank | SCTI | Bear Cut | Description |
|-----------|-------------|----------------|-------|------|--------------|-------------|
| 3/8" | 1-1/16" | 2-13/16" | 1/4" | SL3 | ATI32.726SY | CONE/RADIUS |
| 1/2" | 1-1/8" | 2-7/8" | 1/4" | SL4 | ATI32.729SY | CONE/RADIUS |
| 5/8" | 1-3/16" | 2-15/16" | 1/4" | SL5 | ATI3273002SY | CONE/RADIUS |
| 3/8" | 1-5/16" | 3-1/16" | 1/4" | SL6 | ATI32.732SY | CONE/RADIUS |



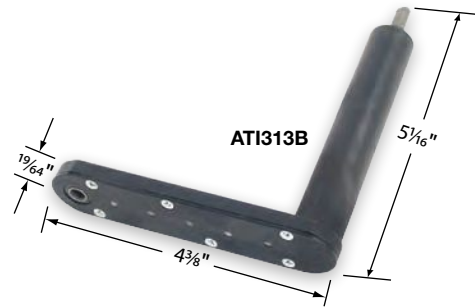
WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Angle Drills

Precision Gear-drive for Minimum Backlash and Reduced Friction.



ATI313B Drill Attachment - Flat Head - Gear Drive - Straight Offset.
Machined steel housing, recommended drill capacity 1/4", one to one drive ratio, 4 3/8" overall length, 15/16" width, 5 1/16" overall height, 19/64" thick gear drive body, 3 33/64" centerline distance from input shaft to output shaft, 27/64" from centerline of output shaft to end of housing, 1/4" diameter input shaft, #1/4"-28 female threaded output, high speed gear drive with anti-friction roller bearings.



ATI313LB Drill Attachment - Flat Head - Gear Drive - 60 Degree Right Hand Offset.
Machined steel housing, recommended drill capacity 1/4", one to one drive ratio, 3 15/16" overall length, 15/16" width, 5 1/16" overall height, 19/64" thick gear drive body, centerline distance from input shaft to output shaft is 3 3/32" by 7/8" of offset, 27/64" from centerline of output shaft to end of housing, 1/4" diameter input shaft, #1/4"-28 female threaded output, high quality gear drive with anti-friction roller bearings.



ATI313RB Drill Attachment - Flat Head - Gear Drive - 60 Degree Left Hand Offset.
Machined steel housing, recommended drill capacity 1/4", one to one drive ratio, 3 15/16" overall length, 15/16" width, 5 1/16" overall height, 19/64" thick gear drive body, centerline distance from input shaft to output shaft is 3 3/32" by 7/8" of offset, 27/64" from centerline of output shaft to end of housing, 1/4" diameter input shaft, #1/4"-28 female threaded output, high quality gear drive with anti-friction roller bearings.



ATI331B Drill Attachment - Flat Head - Gear Drive - Straight Offset.
Machined steel housing, recommended drill capacity 3/8", one to one drive ratio, 4 5/32" overall length, 15/16" width, 5 5/8" overall height, 29/64" thick gear drive body, 3 5/16" centerline distance from input shaft to output shaft, 11/32" from centerline of output shaft to end of housing, 1/4" diameter input shaft, #1/4"-28 female threaded output, high speed gear drive with anti-friction roller bearings with (grease) zerk fitting for easy maintenance.



ATI332A Drill Attachment - Flat Head - Gear Drive - Straight Offset.
Machined aluminum (hard anodized) housing, recommended drill capacity 1/4", one to one drive ratio, 3 3/16" overall length, 15/16" width, 2 5/16" overall height, 1/2" thick gear drive body, 2 7/16" centerline distance from input shaft to output shaft, 11/32" from centerline of output shaft to end of housing, 1/4" diameter input shaft, #10-32 female threaded output, high speed gear drive with anti-friction roller bearings with (grease) zerk fitting for easy maintenance.



ATI332B Drill Attachment - Flat Head - Gear Drive - Straight Offset.
Machined aluminum (hard anodized) housing, recommended drill capacity 1/4", one to one drive ratio, 3 3/16" overall length, 15/16" width, 2 5/16" overall height, 1/2" thick gear drive body, 2 7/16" centerline distance from input shaft to output shaft, 11/32" from centerline of output shaft to end of housing, 1/4" diameter input shaft, #1/4"-28 female threaded output, high speed gear drive with anti-friction roller bearings with (grease) zerk fitting for easy maintenance.



ATI332SC Drill Attachment - Flat Head - Gear Drive - Straight Offset.
Machined steel housing, recommended drill capacity 1/4", one to one drive ratio, 3 1/8" overall length, 15/16" width, 2 1/16" overall height, 11/32" thick gear drive body, 2 7/16" centerline distance from input shaft to output shaft, 5/16" from centerline of output shaft to end of housing, 1/4" diameter input shaft, #1/4"-28 female threaded output, high speed gear drive with anti-friction roller bearings.
NSN #5130-01-384-6398



ATI333B Drill Attachment - Flat Head - Gear Drive - Inverted 180 - Degree Straight Offset.
Machined aluminum (hard-anodized) housing, recommended drill capacity 1/4", one to one drive ratio, 3 13/16" overall length, 31/32" width, 2 5/16" overall height, 33/64" thick gear drive body, 3 7/64" centerline distance from input shaft to 180-degree rotated output shaft, 21/64" from centerline of output shaft to end of housing, 1/4" diameter input shaft, #1/4"-28 female threaded inverted output, high speed gear drive with anti-friction roller bearings.



ATI300B Drill Attachment - 7 1/16" Straight Drive - 90 - Degree Head Angle.
Sealed bearings, maintenance free straight drive drill attachment, recommended drill capacity 5/16", one to one drive ratio, 7 1/16" overall length includes the 90-degree angle head. 1/4" diameter input shaft, 1/4"-28 female threaded output head, 1 5/8" head height, 13/16" head width, 13/32" centerline of output shaft to outside circumference of head. NSN #5130-01-388-9904.



ATI326B Drill Attachment - 7" Straight Drive - 90 - Degree Head Angle.
Sealed bearings, maintenance free straight drive drill attachment, recommended drill capacity 3/16", one to one drive ratio, 7" overall length includes the 90-degree angle head. 1/4" diameter input shaft, 1/4"-28 female threaded output head, 27/32" head height, 17/32" head width, 17/64" centerline of output shaft to outside circumference of head. NSN #5130-01-388-9892



ATI336A Drill Attachment - 7 1/8" Straight Drive - 90 Degree Head Angle.
Sealed bearings, maintenance free straight drive drill attachment, recommended drill capacity 3/8", 1.5 to one drive ratio, 7 1/8" overall length includes the 90-degree angle head. 1/4" diameter input shaft, three jaw adjustable 1/4" capacity drill chuck, 1 9/16" head height, 15/16" head width, 15/32" centerline of drill chuck to outside circumference of head. NSN #5130-00-289-8163



ATI337B Drill Attachment - 7 3/16" Straight Drive - 360 Adjustable 90 - Degree Head Angle.
Sealed bearings, maintenance free straight drive drill attachment, recommended drill capacity 3/8", 1.5 to one drive ratio, 7 3/16" overall length includes a 3 5/32" offset rotating 90-degree angle head. 1/4" diameter input shaft, 1/4"-28 female threaded output head, 1 13/64" head height, 15/16" head width, 15/32" centerline of drill chuck to outside circumference of head. NSN #5130-01-388-9908



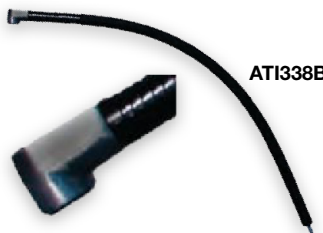
ATI302B Drill Attachment - 30" Flexible Drive - 90-Degree Head Angle.
Sealed bearings, maintenance free flexible drive drill attachment, recommended drill capacity 5/16", one to one drive ratio, 36 1/2" overall length includes 30" flexible drive plus 6 1/2" hand grip and the 90-degree angle head. 1/4" diameter input shaft, 1/4"-28 female threaded output head, 1 5/8" head height, 13/16" head width, 13/32" centerline of output shaft to outside circumference of head.



ATI303B Drill Attachment - 30" Flexible Drive - 45 - Degree Head Angle.
Sealed bearings, maintenance free flexible drive drill attachment, recommended drill capacity 5/16", one to one drive ratio, 37" overall length includes 30" flexible drive plus 7" hand grip and the 45-degree angle head. 1/4" diameter input shaft, 1/4"-28 female threaded output head, 1 5/8" head height, 13/16" head width, 13/32" centerline of output shaft to outside circumference of head.



ATI327B-24 Drill Attachment - 24" Flexible Drive - 90 - Degree Head Angle.
Sealed bearings, maintenance free flexible drive drill attachment, recommended drill capacity 5/16", one to one drive ratio, 30 3/4" overall length includes 24" flexible drive plus 6 3/4" hand grip and the 90-degree angle head. 1/4" diameter input shaft, 1/4"-28 female threaded output head, 27/32" head height, 17/32" head width, 17/64" centerline of output shaft to outside circumference of head.



ATI338B Drill Attachment - 24" Flexible Drive - 90 - Degree Head Angle.
Sealed bearings, maintenance free flexible drive drill attachment, recommended drill capacity 3/8", 1.5 to one drive ratio, 30 3/4" overall length includes 24" flexible drive plus 6 3/4" hand grip and the 90-degree angle head. 1/4" diameter input shaft, 1/4"-28 female threaded output head, 1 3/16" head height, 15/16" head width, 15/32" centerline of output shaft to outside circumference of head.



ATI339A Drill Attachment - 24" Flexible Drive - 360 - Degree Adjustable 90 - Degree Head.
Sealed bearings, maintenance free straight drive drill attachment, recommended drill capacity 3/8", 1.5 to one drive ratio, 31 1/16" overall length includes a 3 5/32" offset rotating 90-degree angle head. 1/4" diameter input shaft, three jaw adjustable 1/4" capacity drill chuck, 1 37/64" head height, 15/16" head width, 15/32" centerline of drill chuck to outside circumference of head. NSN #5130-01-388-9897

Note: See Threaded Drills on Page 17.



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Drilling Accessories – Drill Bushings

ATI589A-098 Drill Guide Housing with #40 Bushing.

Consist of ATI589AA drill guide housing and ATI589AB-.098 threaded bushing. A hand-held guide to keep drills and taps at a 90-degree angle to a flat or curved skin surface. NSN #5120-01-316-2297

ATI589A-1285 Drill Guide Housing with #30 Bushing.

Consist of ATI589AA drill guide housing and ATI589AB-.1285 threaded bushing. A hand-held guide to keep drills and taps at a 90-degree angle to a flat or curved skin surface. NSN #5120-01-316-2298

ATI589A-159 Drill Guide Housing with #21 Bushing.

Consist of ATI589AA drill guide housing and ATI589AB-.159 threaded bushing. A hand-held guide to keep drills and taps at a 90-degree angle to a flat or curved skin surface. NSN #5120-01-046-2931

ATI589A161 Drill Guide Housing with #20 Bushing.

Consist of ATI589AA drill guide housing and ATI589AB-.161 threaded bushing. A hand-held guide to keep drills and taps at a 90-degree angle to a flat or curved skin surface.

ATI589A-1875 Drill Guide Housing with 3/16" Bushing.

Consist of ATI589AA drill guide housing and ATI589AB-.1875 threaded bushing. A hand-held guide to keep drills and taps at a 90-degree angle to a flat or curved skin surface.

ATI589AB098 Threaded Drill Bushing - #40.

Interchangeable threaded drill bushing used with ATI589AA drill guide housing. Carburized steel treatment for extended durability.

ATI589AB1285 Threaded Drill Bushing - #30.

Interchangeable threaded drill bushing used with ATI589AA drill guide housing. Carburized steel treatment for extended durability.

ATI589AB1562 Threaded Drill Bushing - 5/32".

Interchangeable threaded drill bushing used with ATI589AA drill guide housing. Carburized steel treatment for extended durability.

ATI589AB159 Threaded Drill Bushing - #21.

Interchangeable threaded drill bushing used with ATI589AA drill guide housing. Carburized steel treatment for extended durability.

ATI589AB-161 Threaded Drill Bushing - #20.

Interchangeable threaded drill bushing used with ATI589AA drill guide housing. Carburized steel treatment for extended durability.

ATI589A2187



ATI589A-1935 Drill Guide Housing with #10 Bushing.

Consist of ATI589AA drill guide housing and ATI589AB-.1935 threaded bushing. A hand-held guide to keep drills and taps at a 90-degree angle to a flat or curved skin surface. NSN #5120-01-046-2928

ATI589A2187 Drill Guide Housing with 7/32" Bushing.

Consist of ATI589AA drill guide housing and ATI589AB-.2187 threaded bushing. A hand-held guide to keep drills and taps at a 90-degree angle to a flat or curved skin surface.

ATI589AB1875 Threaded Drill Bushing - 3/16".

Interchangeable threaded drill bushing used with ATI589AA drill guide housing. Carburized steel treatment for extended durability.

ATI589AB-190 Threaded Drill Bushing - .190".

Interchangeable threaded drill bushing used with ATI589AA drill guide housing. Carburized steel treatment for extended durability.

ATI589AB1935 Threaded Drill Bushing - #10.

Interchangeable threaded drill bushing used with ATI589AA drill guide housing. Carburized steel treatment for extended durability.

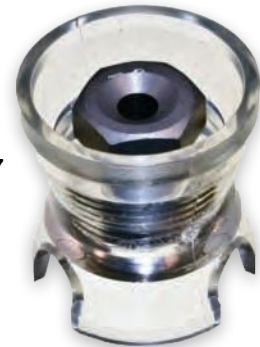
ATI589AB2187 Threaded Drill Bushing - 7/32".

Interchangeable threaded drill bushing used with ATI589AA drill guide housing. Carburized steel treatment for extended durability.

ATI589AB-247 Threaded Drill Bushing - "D".

Interchangeable threaded drill bushing used with ATI589AA drill guide housing. Carburized steel treatment for extended durability.

ATI589A257



Polycarbonate Housing.

ATI589A250 Drill Guide Housing with 1/4" Bushing.

Consist of ATI589AA drill guide housing and ATI589AB-.250 threaded bushing. A hand-held guide to keep drills and taps at a 90-degree angle to a flat or curved skin surface.

ATI589A257 Drill Guide Housing with "F" Drill Bushing.

Consist of ATI589AA drill guide housing and ATI589A-.B257 threaded bushing. A hand-held guide to keep drills and taps at a 90-degree angle to a flat or curved skin surface.



ATI589AB1935

Case Hardened Bushings.

ATI589AB250 Threaded Drill Bushing - 1/4".

Interchangeable threaded drill bushing used with ATI589AA drill guide housing. Carburized steel treatment for extended durability.

ATI589AB-257 Threaded Drill Bushing - "F".

Interchangeable threaded drill bushing used with ATI589AA drill guide housing. Carburized steel treatment for extended durability.

ATI589AB-281 Threaded Drill Bushing - "K".

Interchangeable threaded drill bushing used with ATI589AA drill guide housing. Carburized steel treatment for extended durability.

ATI589AB-310 Threaded Drill Bushing - .310.

Interchangeable threaded drill bushing used with ATI589AA drill guide housing. Carburized steel treatment for extended durability.



ATI589CA

ATI589CA Drill Guide Housing Only.
Hand-held guide to keep drills and taps at a 90-degree angle to a flat or curved skin surface. The polycarbonate housing accepts the ATI589CB family of threaded drill bushings sold separately.

ATI589CB3125 Threaded Drill Bushings.
Interchangeable threaded drill bushing used with ATI589CA drill guide housing. Carburized steel treatment for extended durability.

ATI589CB375 Threaded Drill Bushings.
Interchangeable threaded drill bushing used with ATI589CA drill guide housing. Carburized steel treatment for extended durability.

ATI589AA Drill Guide Housing Only.
Hand-held guide to keep drills and taps at a 90-degree angle to a flat or curved skin surface. The polycarbonate housing accepts the ATI589AB family of threaded drill bushings sold separately.



ATI589DA

ATI589DA Flange Lock Drill Bushing.
A hand-held guide to keep #80 (.0135) through #10 (.1935) drills and taps at a 90-degree angle to a flat or curved skin surface. Accepts 5/16" outside diameter bushing. The guide assembly consists of a polycarbonate housing with steel liner bushing, with lock-in lug for standard slip renewable drill bushings.



ATI589EA

ATI589EA Flange Lock Drill Bushing.
A hand-held guide to keep #28 (.1405) through 11/32" (.3438) drills and taps at a 90-degree angle to a flat or curved skin surface. Accepts 1/2" outside diameter bushing. The guide assembly consists of a polycarbonate housing with steel liner bushing, with lock-in lug for standard slip renewable drill bushings.



ATI590DBK

ATI590DBK Drill Bushing Kit.
Kit includes three polycarbonate egg-cups and nine bushings for drill sizes #40, #30, 5/32", #21, 3/16", #10, 7/32", 1/4", maintains tool perpendicular to skin surface.



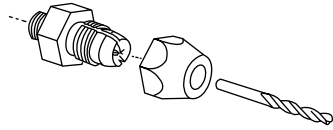
WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Drill Adaptors

Straight Shank Drill Solutions for Threaded Spindles.



ATI503-30 Drill Adaptor #30.
1/4-28 threaded shank with 60 degree seating angle, drill is held securely by set screw. Used with angle and pancake drills.

ATI503-30



ATI503-40

ATI503-40 Drill Adaptor #40.
1/4-28 threaded shank with 60 degree seating angle, drill is held securely by set screw. Used with angle and pancake drills.



ATI503-72

ATI503-72 Drill Adaptor 1/4".
1/4-28 threaded shank with 60 degree seating angle, drill is held securely by set screw. Used with angle and pancake drills.



ATI503C-1/4

ATI503C-3/32 Drill Collet Adaptor - 3/32".
1/4-28 threaded shank, drill is held securely by tightening collet cap to base. Used with angle and pancake drills.

ATI503C-30 Drill Collet Adaptor - #30.
1/4-28 threaded shank, drill is held securely by tightening collet cap to base. Used with angle and pancake drills.

ATI503C-11 Drill Collet Adaptor - #11.
1/4-28 threaded shank, drill is held securely by tightening collet cap to base. Used with angle and pancake drills.

ATI503C-40 Drill Collet Adaptor - #40.
1/4-28 threaded shank, drill is held securely by tightening collet cap to base. Used with angle and pancake drills.

ATI503C-5/32 Drill Collet Adaptor - 5/32".
1/4-28 threaded shank, drill is held securely by tightening collet cap to base. Used with angle and pancake drills.

ATI503C-10 Drill Collet Adaptor - #10.
1/4-28 threaded shank, drill is held securely by tightening collet cap to base. Used with angle and pancake drills.

ATI503C-1/8 Drill Collet Adaptor - 1/8".
1/4-28 threaded shank, drill is held securely by tightening collet cap to base. Used with angle and pancake drills.

ATI503C-21 Drill Collet Adaptor - #21.
1/4-28 threaded shank, drill is held securely by tightening collet cap to base. Used with angle and pancake drills.

ATI503C-7/32 Drill Collet Adaptor - 7/32".
1/4-28 threaded shank, drill is held securely by tightening collet cap to base. Used with angle and pancake drills.

ATI503C-3/16 Drill Collet Adaptor - 3/16".
1/4-28 threaded shank, drill is held securely by tightening collet cap to base. Used with angle and pancake drills.

ATI503C-1/4 Drill Collet Adaptor - 1/4".
1/4-28 threaded shank, drill is held securely by tightening collet cap to base. Used with angle and pancake drills.

Drill Chuck

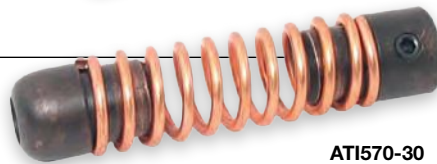
ATI339EC Chuck-Three Jaw.
1/16" to 1/4" chuck is used with angle drills with 1/4"-28 threaded spindles, allowing the use of straight shank tools. NSN #5130-01-368-5849



ATI339EC

Drill Stops

ATI570-40 Drill Stop - #40.
Controls hole depth, cushion the break-through, unique rounded face prevents chuck jaws from coming in contact with the skin surface. Unit locks to drill with a set screws. NSN #5120-01-094-0027



ATI570-30

Primarily designed to control hole depth, this tool will also cushion the break-through of a drill and prevent chuck jaws from coming in contact with the skin surface. Unit locks on drill with a set screw.

ATI570-30 Drill Stop - #30.
Controls hole depth, cushion the break-through, unique rounded face prevents chuck jaws from coming in contact with the skin surface. Unit locks to drill with a set screws. NSN #5120-01-107-2181

ATI570-12 Drill Stop - #12.
Controls hole depth, cushion the break-through, unique rounded face prevents chuck jaws from coming in contact with the skin surface. Unit locks to drill with a set screws. NSN #5120-01-053-7937

ATI570-1/4 Drill Stop - 1/4".
Controls hole depth, cushion the break-through, unique rounded face prevents chuck jaws from coming in contact with the skin surface. Unit locks to drill with a set screws. NSN #5120-01-066-2854

ATI570-21 Drill Stop - #21.
Controls hole depth, cushion the break-through, unique rounded face prevents chuck jaws from coming in contact with the skin surface. Unit locks to drill with a set screws. NSN #5120-01-104-5376

ATI570-11 Drill Stop - #11.
Controls hole depth, cushion the break-through, unique rounded face prevents chuck jaws from coming in contact with the skin surface. Unit locks to drill with a set screws. NSN #5120-01-513-0147

ATI570-5/16 Drill Stop - 5/16".
Controls hole depth, cushion the break-through, unique rounded face prevents chuck jaws from coming in contact with the skin surface. Unit locks to drill with a set screws. NSN #5120-01-046-4995

ATI570-20 Drill Stop - #20.
Controls hole depth, cushion the break-through, unique rounded face prevents chuck jaws from coming in contact with the skin surface. Unit locks to drill with a set screws. NSN #5120-01-046-5003

ATI570-10 Drill Stop - #10.
Controls hole depth, cushion the break-through, unique rounded face prevents chuck jaws from coming in contact with the skin surface. Unit locks to drill with a set screws. NSN #5120-01-105-6772

Threaded Drills



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ATIHSSSH5/32

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ATIHSSSH3/16

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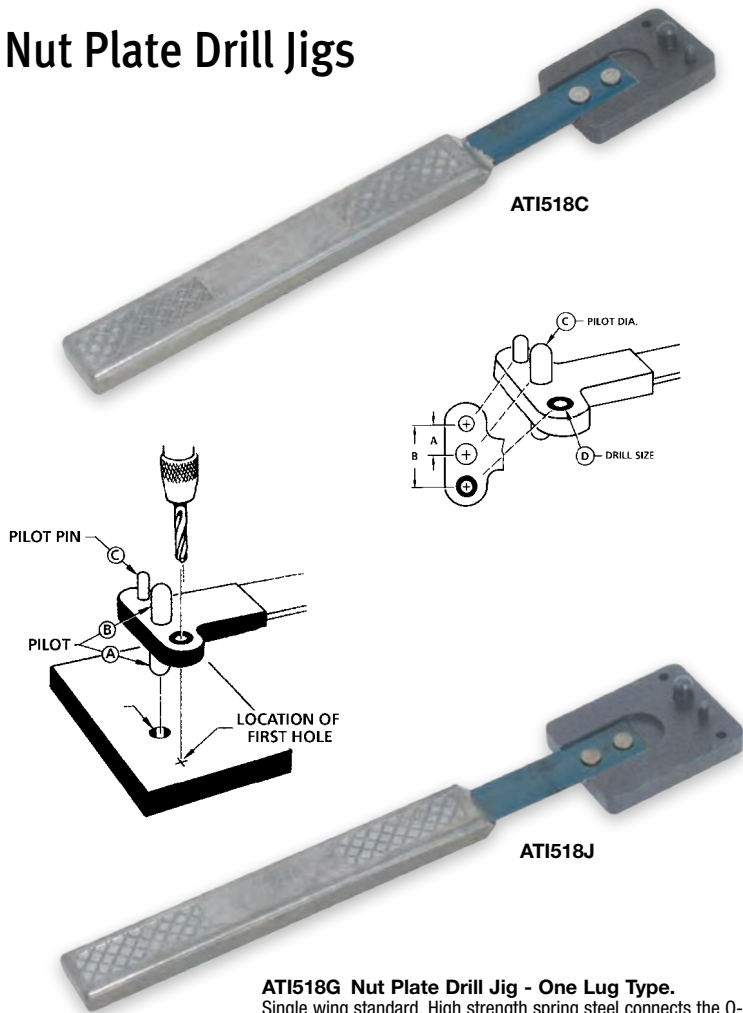


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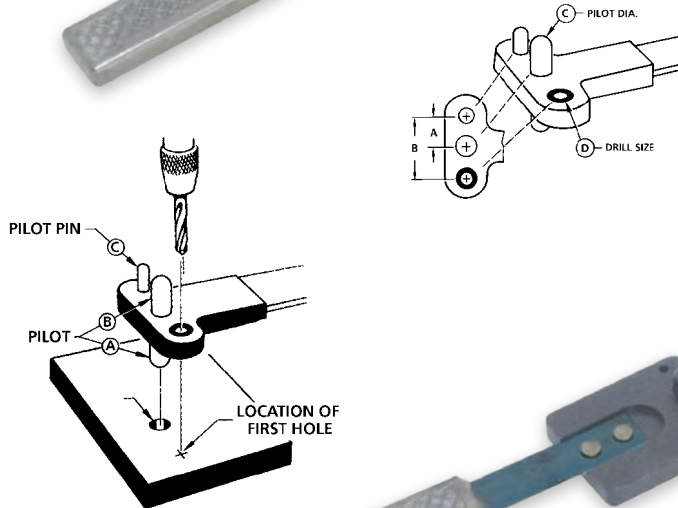
- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Nut Plate Drill Jigs



ATI518C



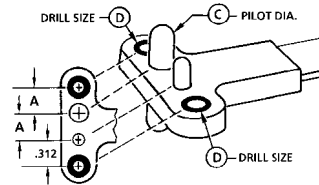
ATI518A Nut Plate Drill Jig - Two Lug Type.
Double wing standard. High strength spring steel connects the O-1 hardened head to the aluminum knurled handle. A=.344", B=.688", C=.139", D=#40, bolt size reference #6. NSN #5130-01-368-5862

ATI518B Nut Plate Drill Jig - Two Lug Type.
Double wing standard. High strength spring steel connects the O-1 hardened head to the aluminum knurled handle. A=.344", B=.688", C=.164", D=#40, bolt size reference #8. NSN #5130-01-368-5863

ATI518C Nut Plate Drill Jig - Two Lug Type.
Double wing standard. High strength spring steel connects the O-1 hardened head to the aluminum knurled handle. A=.344", B=.688", C=.191", D=#40, bolt size reference #10. NSN #3465-01-078-0674

ATI518D Nut Plate Drill Jig - Two Lug Type.
Double wing standard. High strength spring steel connects the O-1 hardened head to the aluminum knurled handle. A=.500", B=1.000", C=.248", D=#40, bolt size reference 1/4". NSN #3465-01-014-9133

ATI518E Nut Plate Drill Jig - Two Lug Type.
Double wing standard. High strength spring steel connects the O-1 hardened head to the aluminum knurled handle. A=.500", B=1.000", C=.312", D=#30, bolt size reference #5/16. NSN #5130-01-411-8176



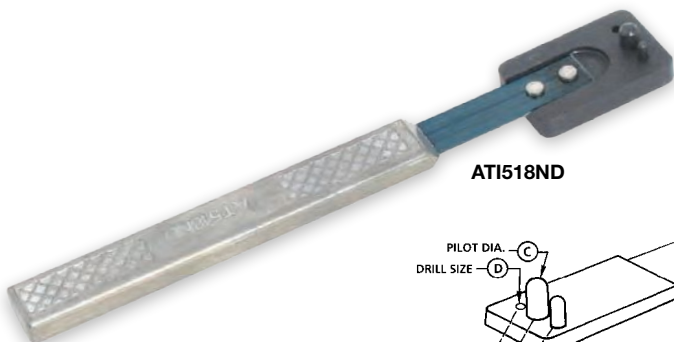
ATI518J

ATI518G Nut Plate Drill Jig - One Lug Type.
Single wing standard. High strength spring steel connects the O-1 hardened head to the aluminum knurled handle. A=.344", C=.139", D=#40, bolt size reference #6. NSN #5130-01-368-5866

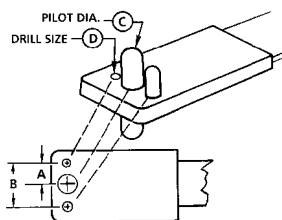
ATI518J Nut Plate Drill Jig - One Lug Type.
Single wing standard. High strength spring steel connects the O-1 hardened head to the aluminum knurled handle. A=.344", C=.191", D=#40, bolt size reference #10. NSN #3465-01-025-1562

ATI518H Nut Plate Drill Jig - One Lug Type.
Single wing standard. High strength spring steel connects the O-1 hardened head to the aluminum knurled handle. A=.344", C=.164", D=#40, bolt size reference #8. NSN #3465-01-025-9759

ATI518K Nut Plate Drill Jig - One Lug Type.
Single wing standard. High strength spring steel connects the O-1 hardened head to the aluminum knurled handle. A=.344", C=.248", D=#40, bolt size reference 1/4". NSN #3465-01-014-9129



ATI518ND



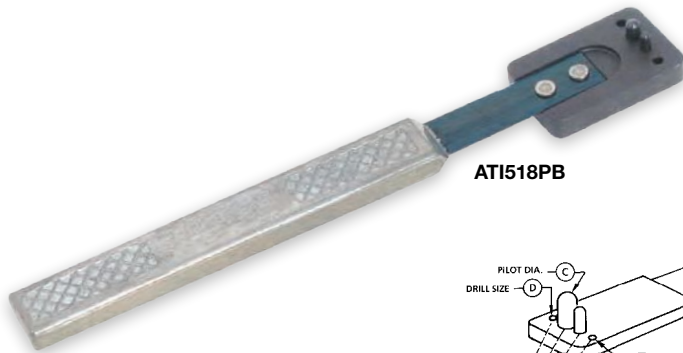
ATI518NA Nut Plate Drill Jig - Two Lug Type.
Double wing miniature. High strength spring steel connects the O-1 hardened head to the aluminum knurled handle. A=.203", B=.406", C=.112", D=#40, bolt size reference #4. NSN #5130-01-411-8177

ATI518NB Nut Plate Drill Jig - Two Lug Type.
Double wing miniature. High strength spring steel connects the O-1 hardened head to the aluminum knurled handle. A=.218", B=.436", C=.139", D=#40, bolt size reference #6. NSN #5130-01-411-8180

ATI518NC Nut Plate Drill Jig - Two Lug Type.
Double wing miniature. High strength spring steel connects the O-1 hardened head to the aluminum knurled handle. A=.234", B=.468", C=.164", D=#40, bolt size reference #8. NSN #5130-01-411-8179

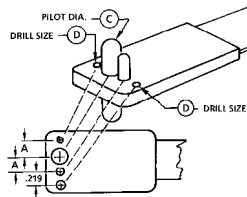
ATI518ND Nut Plate Drill Jig - Two Lug Type.
Double wing miniature. High strength spring steel connects the O-1 hardened head to the aluminum knurled handle. A=.250", B=.500", C=.191", D=#40, bolt size reference #10. NSN #5130-01-411-8182

ATI518NE Nut Plate Drill Jig - Two Lug Type.
Double wing miniature. High strength spring steel connects the O-1 hardened head to the aluminum knurled handle. A=.281", B=.562", C=.248", D=#40, bolt size reference 1/4". NSN #5130-01-411-8181



ATI518PB

Ergonomic Cast Aluminum Handle with Heat - Treated Spring Steel Attached to Oil Hardened Tool Steel Head.



ATI518PB Nut Plate Drill Jig - One Lug Type.

Single wing miniature. High strength spring steel connects the 0-1 hardened head to the aluminum knurled handle. A=.218", C=.139", D=#40, bolt size reference #6. NSN #5130-01-411-8185

ATI518PC Nut Plate Drill Jig - One Lug Type.

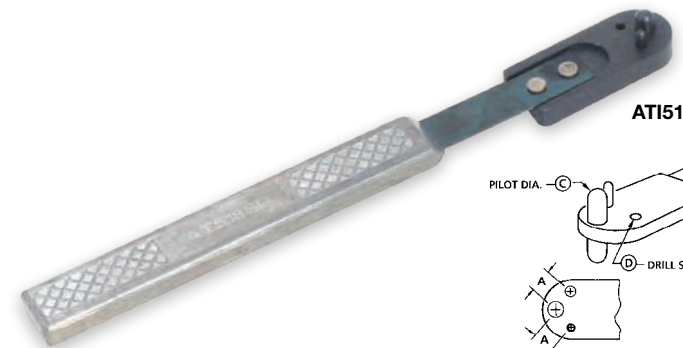
Single wing miniature. High strength spring steel connects the 0-1 hardened head to the aluminum knurled handle. A=.234", C=.164", D=#40, bolt size reference #8. NSN #5130-01-411-8183

ATI518PD Nut Plate Drill Jig - One Lug Type.

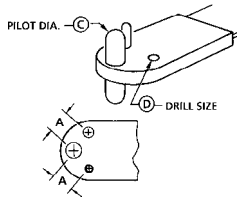
Single wing miniature. High strength spring steel connects the 0-1 hardened head to the aluminum knurled handle. A=.250", C=.191", D=#40, bolt size reference #10. NSN #5130-01-411-8184

ATI518PE Nut Plate Drill Jig - One Lug Type.

Single wing miniature. High strength spring steel connects the 0-1 hardened head to the aluminum knurled handle. A=.281", C=.248", D=#40, bolt size reference 1/4". NSN #5130-01-411-8172



ATI518SD

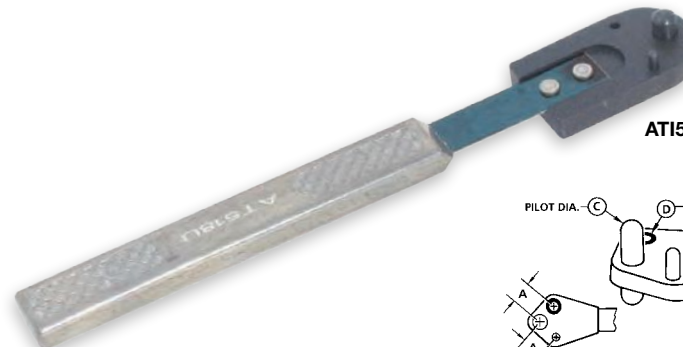


ATI518SC Nut Plate Drill Jig - Corner Type.

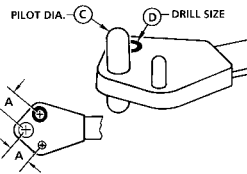
Corner wing miniature. High strength spring steel connects the 0-1 hardened head to the aluminum knurled handle. A=.281", C=.248", D=#40, bolt size reference #8. NSN #5130-01-374-1358

ATI518SD Nut Plate Drill Jig - Corner Type.

Corner wing miniature. High strength spring steel connects the 0-1 hardened head to the aluminum knurled handle. A=.250", C=.191", D=#40, bolt size reference #10. NSN #5130-01-411-8173



ATI518U

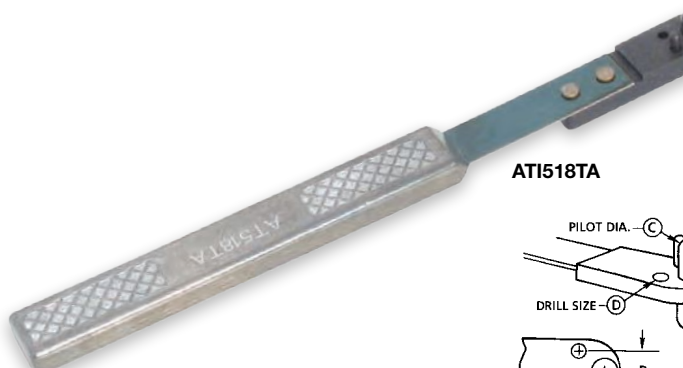


ATI518T Nut Plate Drill Jig - Corner Type.

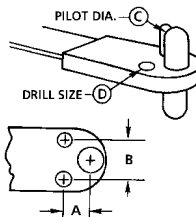
Corner wing standard. High strength spring steel connects the 0-1 hardened head to the aluminum knurled handle. A=.344", C=.191", D=#40, bolt size reference #10. NSN #5130-01-368-5871

ATI518U Nut Plate Drill Jig - Corner Type.

Corner wing standard. High strength spring steel connects the 0-1 hardened head to the aluminum knurled handle. A=.500", C=.248", D=#40, bolt size reference 1/4". NSN #3465-01-014-9128



ATI518TA



ATI518TA Nut Plate Drill Jig - Miniature Anchornut Type.

Single lug miniature. High strength spring steel connects the 0-1 hardened head to the aluminum knurled handle. A=.250", B=.219", C=.191", D=#40, bolt size reference #10. NSN #5130-01-513-0149



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Hole Saws

Precision High Speed Steel.

ATI413-2



ATI413-2 Hole Saw - Fine Tooth.
7/16" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI413-11 Hole Saw - Fine Tooth.
1" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI474-3 Hole Saw - Coarse Tooth.
1/2" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-0 or ATI415-1 arbor.

ATI474-19 Hole Saw - Coarse Tooth.
1 1/2" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-31 Hole Saw - Coarse Tooth.
2 1/4" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-4 Hole Saw - Coarse Tooth.
9/16" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-0 or ATI415-1 arbor.

ATI474-20 Hole Saw - Coarse Tooth.
1 9/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-32 Hole Saw - Coarse Tooth.
2 5/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-5 Hole Saw - Coarse Tooth.
5/8" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-0 or ATI415-1 arbor.

ATI474-21 Hole Saw - Coarse Tooth.
1 5/8" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-33 Hole Saw - Coarse Tooth.
2 3/8" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-6 Hole Saw - Coarse Tooth.
1 1/16" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-0 or ATI415-1 arbor.

ATI474-22 Hole Saw - Coarse Tooth.
1 11/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-35 Hole Saw - Coarse Tooth.
2 1/2" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-7 Hole Saw - Coarse Tooth.
3/4" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-0 or ATI415-1 arbor.

ATI474-23 Hole Saw - Coarse Tooth.
1 3/4" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-38 Hole Saw - Coarse Tooth.
2 11/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-8 Hole Saw - Coarse Tooth.
1 3/16" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-0 or ATI415-1 arbor.

ATI474-25 Hole Saw - Coarse Tooth.
1 7/8" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-39 Hole Saw - Coarse Tooth.
2 3/4" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-9 Hole Saw - Coarse Tooth.
7/8" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-0 or ATI415-1 arbor.

ATI474-26 Hole Saw - Coarse Tooth.
1 15/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-40 Hole Saw - Coarse Tooth.
2 13/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-11 Hole Saw - Coarse Tooth.
1" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-0 or ATI415-1 arbor.

ATI474-27 Hole Saw - Coarse Tooth.
2" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-41 Hole Saw - Coarse Tooth.
2 7/8" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-13 Hole Saw - Coarse Tooth.
1 1/8" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-0 or ATI415-1 arbor.

ATI474-28 Hole Saw - Coarse Tooth.
2 1/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.



ATI474-15

ATI474-15 Hole Saw - Coarse Tooth.
1 1/4" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-0 or ATI415-1 arbor.

ATI474-29 Hole Saw - Coarse Tooth.
2 1/8" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.



ATI474-26

ATI474-17 Hole Saw - Coarse Tooth.
1 3/8" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

ATI474-24 Hole Saw - Coarse Tooth.
1 7/8" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.



ATI474-22

Maintains Cutting Edge and Stays Sharp Longer.

ATI474-18 Hole Saw - Coarse Tooth.
1 7/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of aluminum and steel. Use ATI415-2 or ATI415-3 arbor.

Hole Saw Arbors

ATI415-0 Hole Saw Arbor.
1/4" shank and 3/16" pilot diameters are ground between centers, 5/16"-24 threaded arbor. For use with ATI413 and ATI474-(1 through 15) Hole Saws.

ATI415-1 Hole Saw Arbor.
1/4" shank and 1/4" pilot diameters are ground between centers, 5/16"-24 threaded arbor. For use with ATI413 and ATI474-(1 through 15) Hole Saws.

ATI415-2 Hole Saw Arbor.
1/2" shank and 1/4" pilot diameters are ground between centers, 1/2"-20 threaded arbor. For use with ATI413 and ATI474-(16 through 59) Hole Saws.



ATI415-1

ATI415-3 Hole Saw Arbor.
1/2" Ground Shank, 3/8" Pilot Shank with 1/2"-20 Threads to assure absolute concentricity. For use with ATI413 and ATI474 Hole Saws.

ATI415-10 Hole Saw Arbor.
1/4" shank and 1/4" pilot diameters are ground between centers, 1/2"-20 threaded arbor. For use with ATI413 and ATI474-(16 through 59) Hole Saws.

Duplicating Punches

Tight Tolerance Hole Duplication.

ATI507-1 Duplicating Punch - 3/32".
3 1/2" overall length. Manufactured from heat treated oil hardened drill rod (OHDR). NSN #5120-01-429-3929

ATI507-2 Duplicating Punch - #40.
3 1/2" overall length. Manufactured from heat treated oil hardened drill rod (OHDR). NSN #5120-01-429-3896

ATI507-3 Duplicating Punch - 1/8".
3 1/2" overall length. Manufactured from heat treated oil hardened drill rod (OHDR). NSN #5120-01-429-3911

ATI507-4 Duplicating Punch - #30.
3 1/2" overall length. Manufactured from heat treated oil hardened drill rod (OHDR). NSN #5120-01-429-3923

ATI507-10 Duplicating Punch - 1/4".
3 1/2" overall length. Manufactured from heat treated oil hardened drill rod (OHDR). NSN #5120-01-429-3894

ATI507-11 Duplicating Punch - 5/16".
3 1/2" overall length. Manufactured from heat treated oil hardened drill rod (OHDR). NSN #5120-01-429-3900



ATI507-10

ATI507-1

ATI507-11



ATI507KT

ATI507KT Duplicating Punch Kit.
Kit includes fourteen punch sizes, 3/32", #40, 1/8", #30, 5/32", #19, 3/16", #10, 7/32", 1/4", 5/16", 3/8", 7/16", 1/2", accurately center punches hole location from one sheet to another.



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Strap Duplicators

**ATI500-52 Strap Duplicator - Punch Type
- #30 Pilot.**

6 1/4" working length, made from high grade spring steel. Center punches sheet from hidden pilot hole. NSN #5130-01-368-5851

**ATI500-53 Strap Duplicator - Punch Type
- #21 Pilot.**

6 1/4" working length, made from high grade spring steel. Center punches sheet from hidden pilot hole. NSN #5130-01-368-5852

**ATI50055 Strap Duplicator - Punch Type
- #10 Pilot.**

6 1/4" working length, made from high grade spring steel. Center punches sheet from hidden pilot hole. NSN #5130-01-368-5853

**ATI532-61 Strap Duplicator - Bushing
Type - #40 Pilot/#40 Bushing.**

6 1/4" working length, made from high grade spring steel. Bushing type for drilling duplicate holes in overlapping sheets. NSN #5130-01-368-5854

**ATI532-62 Strap Duplicator - Bushing
Type - #30 Pilot/#30 Bushing.**

6 1/4" working length, made from high grade spring steel. Bushing type for drilling duplicate holes in overlapping sheets. NSN #5130-01-368-5855

**ATI532-63 Strap Duplicator - Bushing
Type - #21 Pilot/#21 Bushing.**

6 1/4" working length, made from high grade spring steel. Bushing type for drilling duplicate holes in overlapping sheets. NSN #5130-01-368-5831

**ATI532-65 Strap Duplicator - Bushing
Type - #10 Pilot/#10 Bushing.**

6 1/4" working length, made from high grade spring steel. Bushing type for drilling duplicate holes in overlapping sheets. NSN #5130-01-368-5832

**ATI532-68 Strap Duplicator - Bushing
Type - 1/4in Pilot/1/4in Bushing.**

6 1/4" working length, made from high grade spring steel. Bushing type for drilling duplicate holes in overlapping sheets. NSN #3465-01-050-7676

**ATI532C-61 Strap Duplicator - Bushing
Type - #40 Pilot/#40 Bushing.**

13 1/4" working length, made from high grade spring steel. Bushing type for drilling duplicate holes in overlapping sheets. NSN #5130-01-368-5834

**ATI532C-62 Strap Duplicator - Bushing
Type - #30 Pilot/#30 Bushing.**

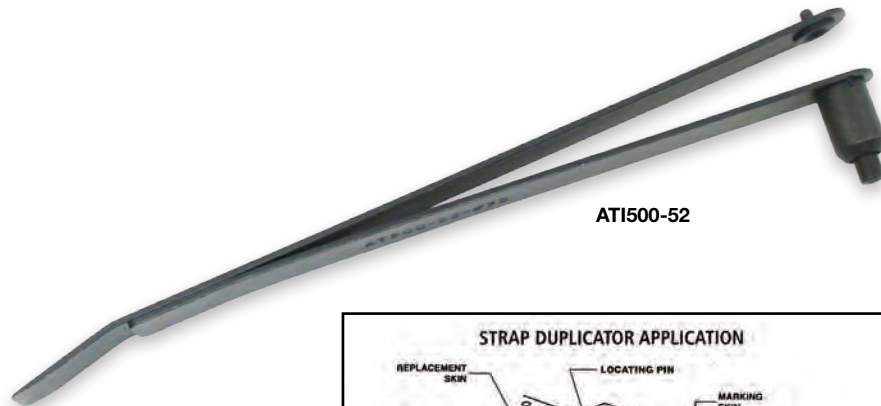
13 1/4" working length, made from high grade spring steel. Bushing type for drilling duplicate holes in overlapping sheets. NSN #5130-01-368-5835

**ATI532C-63 Strap Duplicator - Bushing
Type - #21 Pilot/#21 Bushing.**

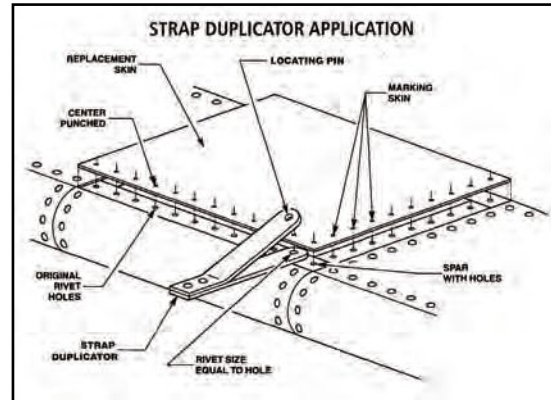
13 1/4" working length, made from high grade spring steel. Bushing type for drilling duplicate holes in overlapping sheets. NSN #5130-01-368-5836

**ATI532C-65 Strap Duplicator - Bushing
Type - #10 Pilot/#10 Bushing.**

13 1/4" working length, made from high grade spring steel. Bushing type for drilling duplicate holes in overlapping sheets. NSN #5130-01-368-5837



ATI500-52



ATI532-61



ATI532C-68

**ATI532C-68 Strap Duplicator - Bushing
Type - 1/4in Pilot/1/4in Bushing.**

13 1/4" working length, made from high grade spring steel. Bushing type for drilling duplicate holes in overlapping sheets. NSN #5130-01-368-5838

ATI532A-61 Strap Duplicator - Inverted Pilot Bushing Type - #40 Pilot/#40 Bushing.

6 1/4" working length, made from high grade spring steel. Similar as bushing type but has an inverted pilot. NSN #5130-01-368-5839

ATI532A-62 Strap Duplicator - Inverted Pilot Bushing Type - #30 Pilot/#30 Bushing.

6 1/4" working length, made from high grade spring steel. Similar as bushing type but has an inverted pilot. NSN #5130-01-368-5840

ATI532A-63 Strap Duplicator - Inverted Pilot Bushing Type - #21 Pilot/#21 Bushing.

6 1/4" working length, made from high grade spring steel. Similar as bushing type but has an inverted pilot. NSN #5130-01-368-5841

ATI532A-65 Strap Duplicator - Inverted Pilot Bushing Type - #10 Pilot/#10 Bushing.

6 1/4" working length, made from high grade spring steel. Similar as bushing type but has an inverted pilot. NSN #5130-01-368-5842



ATI532A-61



ATI532D-61

ATI532D-61 Strap Duplicator - Inverted Pilot Bushing Type - #40 Pilot/#40 Bushing.

13 1/4" working length, made from high grade spring steel. Similar as bushing type but has an inverted pilot. NSN #5130-01-369-2146

ATI532D-62 Strap Duplicator - Inverted Pilot Bushing Type - #30 Pilot/#30 Bushing.

13 1/4" working length, made from high grade spring steel. Similar as bushing type but has an inverted pilot. NSN #5130-01-368-5844

Chip Chasers

ATI512 Chip Chaser - 5 7/8in.

Designed to remove chips between sheets after holes have been drilled for riveting. Spring steel with molded handle.



ATI512

ATISP200 Chip Chaser - Aluminum Handle.

Aluminum handle only, uses optional ATISP20002, ATISP20003, ATISP20004, ATISP20005 chip chaser blades sold separately.



ATISP200

ATISP200-1 Chip Chaser Tool-Pointed Hook - 5 7/8in.

Consist of ATISP200 aluminum handle and ATISP20002 pointed hook blade.

ATISP200-2 Chip Chaser Tool-Blunt Hook - 5 7/8in.

Consist of ATISP200 aluminum handle and ATISP20003 blunt hook blade.

ATISP200-3 Chip Chaser Tool-Pointed Hook - 2 3/4in.

Consist of ATISP200 aluminum handle and ATISP20004 pointed hook blade.



The ATISP Series is Boeing Approved.

ATISP200-1

ATISP200-2

ATISP200-3

ATISP20002 Pointed Hook Chip Chaser Blade - 5 7/8in.

Replacement blade, used with ATISP200 aluminum handle.

ATISP20004 Pointed Hook Chip Chaser Blade - 2 3/4in.

Replacement blade, used with ATISP200 aluminum handle.



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Kits

ATI590CSK

ATI590CSK Microstop/Countersink Cutter Kit.
Kit includes nine 1/2" diameter 100-degree countersink cutters, with integral pilots of #40, #30, #21, #10, 3/32", 1/8", 5/32", 3/16" and 1/4", six foot pieces, and a .001" adjustable microstop with 5/16" travel.
NSN #5133-01-428-5693

Countersinking Versatility in a Convenient and Portable Kit.



ATI590SMKSP1 Sheet Metal Mechanics Kit.

Starter kit includes:

- 3X Rivet Gun, Sioux Brand
- 1/4" 2600 RPM Drill, Sioux Brand
- 3-1/2" Cupped Rivet Sets - 3/32", 1/8", 5/32", 3/16"
- 3-1/2" Flush Rivet Set - 1-1/4"
- Integral Pilot Countersink Cutters - #10, #20, #30, #40
- Micro-Stop
- Hand Rivet Cutter
- Sheet Holder Pliers
- Spring Tension Clamps
- Sheet Holders 12ea. 3/32", 1/8", 5/32", 3/16"
- Drill Stops - 1ea. #10, #20, #30, #40
- Bucking Bar
- Drill Bits - 1ea. #10, #21, #30, #40, 1/8", 3/16", 3/32", 5/32"
- Retainer Spring-Quick Change

ATI590SMKSP1



ATI441HSS Microstop - .001" Adjustment - Straight Skirt.

Accepts up to 5/8" countersink cutter diameter using 1/4"-28 male threaded shank, utilizes needle bearings, 5/16" shaft travel, left handed hex locknut, 1/4" shaft, straight skirt, and a thrust ball bearing for longevity. NSN #5130-01-371-0080



ATI441HSS

ATI441HSA Microstop - .001" Adjustment - Phenolic Tipped Skirt.

Accepts up to 9/16" countersink cutter diameter using 1/4"-28 male threaded shank, utilizes needle bearings, 5/16" shaft travel, left handed hex locknut, 1/4" shaft, and a thrust ball bearing for longevity.

ATI441HSBS Microstop - .001" Adjustment - Straight Skirt.

Accepts up to 5/8" countersink cutter diameter using 1/4"-28 male threaded shank, utilizes ball bearings, 5/16" shaft travel, left handed hex locknut, 1/4" shaft with chucking flats, straight skirt, and a thrust ball bearing for longevity.

Microstops

High Speed Thrust Ball Bearing for Longevity.

ATI441HSSPCC Microstop - .001" Adjustment - Extended Nose.

Accepts up to 3/8" countersink cutter diameter using 1/4"-28 male threaded shank, utilizes needle bearings, 5/16" shaft travel, left handed hex locknut, 1/4" shaft, 1/2" diameter nose, 2 3/4" extended straight skirt, and a thrust ball bearing for longevity.

ATI441HSF Microstop - .001" Adjustment - Flanged Skirt.

Accepts up to 5/8" countersink cutter diameter using 1/4"-28 male threaded shank, utilizes needle bearings, 5/16" shaft travel, left handed hex locknut, 1/4" shaft, flanged skirt for increased stability, and a thrust ball bearing for longevity.

ATI441HSBF Microstop - .001" Adjustment - Flanged Skirt.

Accepts up to 5/8" countersink cutter diameter using 1/4"-28 male threaded shank, utilizes ball bearings, 5/16" shaft travel, left handed hex locknut, 1/4" shaft with chucking flats, flanged skirt for increased stability, and a thrust ball bearing for longevity. NSN #5120-01-344-2736

ATI442HSS Microstop - .001" Adjustment - Straight Skirt.

Accepts up to 5/8" countersink cutter diameter using 1/4"-28 female threaded end, utilizes needle bearings, 5/16" shaft travel, left handed hex locknut, 1/4" shaft, straight skirt, and a thrust ball bearing for longevity. Recommend ATI418 family of female threaded countersink cutters and ATI416 family of countersink pilots.



ATI441HSSPCC

ATI432B Microstop - 3/8"-24 Threaded Jumbo - .001" Adjustment.

Accepts up to 1 1/4" countersink cutter diameter using 3/8"-24 male threaded shank, solid one piece shaft utilizes oilite bearings, and a thrust ball bearing for longevity.



ATI432B

ATI462 Microstop - 3/8"-24 Threaded Jumbo - .003in Adjustment.

Accepts up to 7/8" countersink cutter diameter using 3/8"-24 male threaded shank, solid one piece shaft utilizes oilite bearings, and a thrust ball bearing for longevity. NSN #3460-00-847-5135

ATI462H3-1.3 Microstop - 3/8"-24 Threaded Jumbo - .0005in Adjustment.

Accepts up to 1 1/4" countersink cutter diameter using 3/8"-24 male threaded shank, solid one piece shaft utilizes ball radial bearings and thrust bearings for operating to 5000 RPM. Unique shaft features chucking flats and 3/4" travel.

ATI462H7-1.3 Microstop - 7/16"-20 Threaded Jumbo - .0005in Adjustment.

Accepts up to 1 1/4" countersink cutter diameter using 7/16"-20 male threaded shank, solid one piece shaft utilizes ball radial bearings and thrust bearings for operating to 5000 RPM. Unique shaft features chucking flats and 3/4" travel.



ATI462H3-1.3

Nylon Inserts

ATI440A-13 Nylon Insert - Microstop.

Replacement insert for Microstop with interchangeable insert foot piece. 7/8" OD. Used with ATI440A-1X Skirt.



ATI440A-13

ATI440A-14 Nylon Insert - Microstop.

Replacement insert for Microstop with interchangeable insert foot piece. 1 1/4" OD. Used with ATI440A-1X Skirt.



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Countersinks

Ground On-Center to Ensure Concentricity and Eliminates Run-Out.

Manufactured from M2 High Speed Steel.



ATI420D410

ATI420D43/32 Countersink - Integral Pilot - Three Flute.

7/16" body diameter, 3/32" integrated pilot, 3 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3084

ATI420D430 Countersink - Integral Pilot - Three Flute.

7/16" body diameter, #30 integrated pilot, 3 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3081

ATI420D43/16 Countersink - Integral Pilot - Three Flute.

7/16" body diameter, 3/16" integrated pilot, 3 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3090

ATI420D440 Countersink - Integral Pilot - Three Flute.

7/16" body diameter, #40 integrated pilot, 3 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3086

ATI420D45/32 Countersink - Integral Pilot - Three Flute.

7/16" body diameter, 5/32" integrated pilot, 3 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3089

ATI420D410 Countersink - Integral Pilot - Three Flute.

7/16" body diameter, #10 integrated pilot, 3 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3020

ATI420D41/8 Countersink - Integral Pilot - Three Flute.

7/16" body diameter, 1/8" integrated pilot, 3 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3085

ATI420D421 Countersink - Integral Pilot - Three Flute.

7/16" body diameter, #21 integrated pilot, 3 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3080

ATI420D41/4 Countersink - Integral Pilot - Three Flute.

7/16" body diameter, 1/4" integrated pilot, 3 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3087

ATI420D-4PC Countersink - Integral Pilot - Three Flute - Set.

Four piece set includes- 7/16" body diameter, 3-flute, 100-degree with integral pilots 3/32", 1/8", 5/32" and 3/16" in an Anodized Aluminum Threaded Holder. NSN #5133-01-428-5685



ATI420D-4PC

Integral Pilot

ATI445E43/32 Countersink - Integral Pilot - Two Flute.

1/2" body diameter, 3/32" integrated pilot, 2 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-2930

ATI445E430 Countersink - Integral Pilot - Two Flute.

1/2" body diameter, #30 integrated pilot, 2 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3081

ATI445E43/16 Countersink - Integral Pilot - Two Flute.

1/2" body diameter, 3/16" integrated pilot, 2 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3227

ATI445E440 Countersink - Integral Pilot - Two Flute.

1/2" body diameter, #40 integrated pilot, 2 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3094

ATI445E45/32 Countersink - Integral Pilot - Two Flute.

1/2" body diameter, 5/32" integrated pilot, 2 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3226

ATI445E410 Countersink - Integral Pilot - Two Flute.

1/2" body diameter, #10 integrated pilot, 2 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3091

ATI445E41/8 Countersink - Integral Pilot - Two Flute.

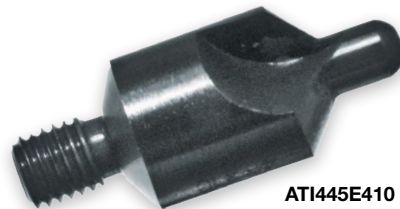
1/2" body diameter, 1/8" integrated pilot, 2 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3219

ATI445E421 Countersink - Integral Pilot - Two Flute.

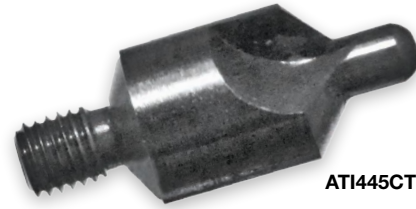
1/2" body diameter, #21 integrated pilot, 2 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3092

ATI445E4-1/4 Countersink - Integral Pilot - Two Flute.

1/2" body diameter, 1/4" integrated pilot, 2 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstop or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3228



ATI445E410



ATI445CTE410

Integral Pilot - Carbide Tip

ATI445CE440N Countersink - Integral Pilot - Two Flute - Carbide Tipped.

1/2" body diameter, #40 integrated pilot, 2 flute, carbide tipped, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstops or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3232

ATI445CTE418 Countersink - Integral Pilot - Two Flute - Carbide Tipped.

1/2" body diameter, 1/8" integrated pilot, 2 flute, carbide tipped, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstops or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3229

ATI445CTE430 Countersink - Integral Pilot - Two Flute - Carbide Tipped.

1/2" body diameter, #30 integrated pilot, 2 flute, carbide tipped, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstops or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3225

ATI445CTE421 Countersink - Integral Pilot - Two Flute - Carbide Tipped.

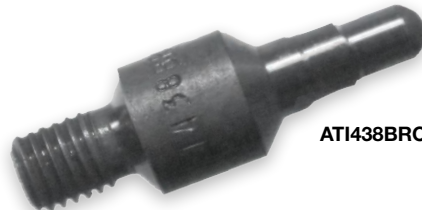
1/2" body diameter, #21 integrated pilot, 2 flute, carbide tipped, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstops or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3224

ATI445CTE410 Countersink - Integral Pilot - Two Flute - Carbide Tipped.

1/2" body diameter, #10 integrated pilot, 2 flute, carbide tipped, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstops or any 1/4"-28 threaded Microstop. NSN #5133-01-397-3223

ATI445CTE414 Countersink - Integral Pilot - Two Flute - Carbide Tipped.

1/2" body diameter, 1/4" integrated pilot, 2 flute, carbide tipped, 100-degree cutting angle with 1/4"-28 threaded male shank. Used with ATI441HS-product family of Microstops or any 1/4"-28 threaded Microstop. NSN #5133-01-428-5682



ATI438BRC-5



ATI438BRC-8

Briles® Type

ATI438BRC3 Countersink - Briles® Type - 3/32" Rivet.

3/8" body diameter, .096 pilot diameter, .180 pilot length, 3/32" rivet size, 120-degree cutting angle, .1235 intermediate body diameter, .949 body and shank length, 1/4"-28 threaded male shank.

ATI438BRC-4 Countersink - Briles® Type - 1/8" Rivet.

3/8" body diameter, .126 pilot diameter, .200 pilot length, 1/8" rivet size, 120-degree cutting angle, .1625 intermediate body diameter, .952 body and shank length, 1/4"-28 threaded male shank.

ATI438BRC-5 Countersink - Briles® Type - 5/32" Rivet.

3/8" body diameter, .159 pilot diameter, .220 pilot length, 5/32" rivet size, 120-degree cutting angle, .2105 intermediate body diameter, .955 body and shank length, 1/4"-28 threaded male shank.

ATI438BRC-6 Countersink - Briles® Type - 3/16" Rivet.

3/8" body diameter, .191 pilot diameter, .250 pilot length, 3/16" rivet size, 120-degree cutting angle, .2585 intermediate body diameter, .958 body and shank length, 1/4"-28 threaded male shank.

ATI438BRC-7 Countersink - Briles® Type - 7/32" Rivet.

3/8" body diameter, .226 pilot diameter, .280 pilot length, 7/32" rivet size, 120-degree cutting angle, .3125 intermediate body diameter, .962 body and shank length, 1/4"-28 threaded male shank.

ATI438BRC-8 Countersink - Briles® Type - 1/4" Rivet.

1/2" body diameter, .255 pilot diameter, .280 pilot length, 1/4" rivet size, 120-degree cutting angle, .3585 intermediate body diameter, .966 body and shank length, 1/4"-28 threaded male shank.

Replaceable Pilot

ATI455C-4 Countersink - Replaceable Pilot - Two Flute.

3/8" body diameter, .086" pilot hole, 2 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Uses ATI484 family of pilots and ATI441HS-product family of Microstops or any 1/4"-28 threaded Microstop.

ATI455D-4 Countersink - Replaceable Pilot - Two Flute.

7/16" body diameter, .086" pilot hole, 2 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Uses ATI484 family of pilots and ATI441HS-product family of Microstops or any 1/4"-28 threaded Microstop.

ATI455E-4 Countersink - Replaceable Pilot - Two Flute.

1/2" body diameter, .086" pilot hole, 2 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Uses ATI484 family of pilots and ATI441HS-product family of Microstops or any 1/4"-28 threaded Microstop.

ATI455G-4 Countersink - Replaceable Pilot - Two Flute.

5/8" body diameter, .086" pilot hole, 2 flute, 100-degree cutting angle with 1/4"-28 threaded male shank. Uses ATI484 family of pilots and ATI441HS-product family of Microstops or any 1/4"-28 threaded Microstop.

ATI455H-4 Countersink - Replaceable Pilot - Three Flute.

3/4" body diameter, .170" pilot hole, 3 flute, 100-degree cutting angle with 3/8"-24 threaded male shank. Uses ATI435 family of pilots and ATI462HS-product family of Microstops or any 3/8"-24 threaded Microstop.

ATI455J-4 Countersink - Replaceable Pilot - Three Flute.

7/8" body diameter, .170" pilot hole, 3 flute, 100-degree cutting angle with 3/8"-24 threaded male shank. Uses ATI435 family of pilots and ATI462HS-product family of Microstops or any 3/8"-24 threaded Microstop.



ATI455G-4

ATI455CTE-4 Countersink - Replaceable Pilot - Two Flute - Carbide Tipped.

1/2" body diameter, .125" pilot hole, 2 flute, carbide tipped, 100-degree cutting angle with 1/4"-28 threaded male shank. Uses ATI485 family of pilots and ATI441HS-product family of Microstops or any 1/4"-28 threaded Microstop.

ATI455SKE-4 Countersink - Kevlar/Composite - Replaceable Pilot - Two Flute.

1/2" body diameter, .086" pilot hole, 2 positive rake cutting flutes, 1/4"-28 threaded male shank for use on Kevlar® Composites, Fiberglass and Glass Epoxies. Uses ATI484-family of pilots.



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Pilots

ATI416-57 Pilot.

.086" shank diameter, 1/8" pilot diameter. Ground head diameter held to .0005" tolerance. Designed to fit ATI418 cutter and ATI421 spotfacer. NSN #3460-01-355-6198

ATI416-59 Pilot.

.086" shank diameter, 5/32" pilot diameter. Ground head diameter held to .0005" tolerance. Designed to fit ATI418 cutter and ATI421 spotfacer. NSN #3460-01-355-6195

ATI416-61 Pilot.

.086" shank diameter, 3/16" pilot diameter. Ground head diameter held to .0005" tolerance. Designed to fit ATI418 cutter and ATI421 spotfacer. NSN #3460-01-355-6205

ATI416-65 Pilot.

.086" shank diameter, 1/4" pilot diameter. Ground head diameter held to .0005" tolerance. Designed to fit ATI418 cutter and ATI421 spotfacer. NSN #3460-01-355-6197

ATI435-3/8 Pilot - Countersink - 3/8".

.170 shank diameter with flat for set screw, 3/8" pilot diameter, undercut to maintain concentricity and prevent breakage. Use with ATI435H and ATI455H and family of countersink cutters 3/4" and larger body diameter.

ATI435-5/16 Pilot - Countersink - 5/16".

.170 shank diameter with flat for set screw, 5/16" pilot diameter, undercut to maintain concentricity and prevent breakage. Use with ATI435H and ATI455H and family of countersink cutters 3/4" and larger body diameter. NSN #3460-00-350-1445



ATI416-65



ATI435-3/8

ATI484-2



ATI484-57



ATI484-2 Pilot - Countersink - .086" Shank.

#40 diameter. Use with ATI455 family of replaceable piloted countersink cutters.

ATI484-56 Pilot - Countersink - .086" Shank.

3/32" diameter. Use with ATI455 family of replaceable piloted countersink cutters. NSN #3460-01-292-4754

ATI484-61 Pilot - Countersink - .086" Shank.

3/16" diameter. Use with ATI455 family of replaceable piloted countersink cutters. NSN #3460-01-292-4757

ATI484-12 Pilot - Countersink - .086" Shank.

#30 diameter. Use with ATI455 family of replaceable piloted countersink cutters.

ATI484-57 Pilot - Countersink - .086" Shank.

1/8" diameter. Use with ATI455 family of replaceable piloted countersink cutters. NSN #3460-01-292-4755

ATI484-63 Pilot - Countersink - .086" Shank.

7/32" diameter. Use with ATI455 family of replaceable piloted countersink cutters.

ATI484-21 Pilot - Countersink - .086" Shank.

#21 diameter. Use with ATI455 family of replaceable piloted countersink cutters.

ATI484-59 Pilot - Countersink - .086" Shank.

5/32" diameter. Use with ATI455 family of replaceable piloted countersink cutters. NSN #3460-01-292-4756

ATI484-65 Pilot - Countersink - .086" Shank.

1/4" diameter. Use with ATI455 family of replaceable piloted countersink cutters. NSN #3460-01-292-4758

Extensions

ATI470A-1 Extension-Counterbore.

1/4" shank diameter, 2 set screws to secure counterbore shaft, 4" overall length.

ATI470B1 Extension - Countersink.

1/4" shank diameter, 1/4"-28 female thread with 120-degree seating angle, 4" Overall Length.



ATI470A-1

ATI470B1



ATI488C-21

ATI488C-1 Counterbore - Aircraft Type - 1/4" Cutting Diameter.

4-flute, 2 3/8" length, 1/4" shank diameter, 3/32" pilot hole, uses ATI489A family of pilots.

ATI488C-3 Counterbore - Aircraft Type - 5/16" Cutting Diameter.

4-flute, 2 3/8" length, 1/4" shank diameter, 3/32" pilot hole, uses ATI489A family of pilots.

ATI488C-5 Counterbore - Aircraft Type - 3/8" Cutting Diameter.

4-flute, 2 3/8" length, 1/4" shank diameter, 3/32" pilot hole, uses ATI489A family of pilots.

ATI488C-6 Counterbore - Aircraft Type - 13/32" Cutting Diameter.

4-flute, 2 13/16" length, 1/4" shank diameter, 1/8" pilot hole, uses ATI489B family of pilots.

ATI488C-7 Counterbore - Aircraft Type - 7/16" Cutting Diameter.

4-flute, 2 13/16" length, 1/4" shank diameter, 1/8" pilot hole, uses ATI489B family of pilots.

ATI488C-8 Counterbore - Aircraft Type - 15/32" Cutting Diameter.

4-flute, 2 13/16" length, 1/4" shank diameter, 1/8" pilot hole, uses ATI489B family of pilots.

ATI488C-9 Counterbore - Aircraft Type - 1/2" Cutting Diameter.

4-flute, 2 13/16" length, 1/4" shank diameter, 1/8" pilot hole, uses ATI489B family of pilots.



ATI488C-25

ATI488C-10 Counterbore - Aircraft Type - 17/32" Cutting Diameter.

4-flute, 2 13/16" length, 1/4" shank diameter, 1/8" pilot hole, uses ATI489B family of pilots.

ATI488C-11 Counterbore - Aircraft Type - 9/16" Cutting Diameter.

4-flute, 2 13/16" length, 1/4" shank diameter, 1/8" pilot hole, uses ATI489B family of pilots.

ATI488C-12 Counterbore - Aircraft Type - 19/32" Cutting Diameter.

4-flute, 2 13/16" length, 1/4" shank diameter, 1/8" pilot hole, uses ATI489B family of pilots.

ATI488C-13 Counterbore - Aircraft Type - 5/8" Cutting Diameter.

4-flute, 2 13/16" length, 1/4" shank diameter, 1/8" pilot hole, uses ATI489B family of pilots.

ATI488C-15 Counterbore - Aircraft Type - 11/16" Cutting Diameter.

4-flute, 2 13/16" length, 1/4" shank diameter, 3/16" pilot hole, uses ATI489C family of pilots.

ATI488C-17 Counterbore - Aircraft Type - 3/4" Cutting Diameter.

4-flute, 2 13/16" length, 1/4" shank diameter, 3/16" pilot hole, uses ATI489C family of pilots.

ATI488C-19 Counterbore - Aircraft Type - 13/16" Cutting Diameter.

4-flute, 2 13/16" length, 1/4" shank diameter, 3/16" pilot hole, uses ATI489C family of pilots.

ATI488C-21 Counterbore - Aircraft Type - 7/8" Cutting Diameter.

4-flute, 2 13/16" length, 1/4" shank diameter, 3/16" pilot hole, uses ATI489C family of pilots.

ATI488C-25 Counterbore - Aircraft Type - 1" Cutting Diameter.

4-flute, 2 13/16" length, 1/4" shank diameter, 3/16" pilot hole, uses ATI489C family of pilots.

ATI488C-29 Counterbore - Aircraft Type - 1 1/4" Cutting Diameter.

4-flute, 2 13/16" length, 3/8" shank diameter, 3/16" pilot hole, uses ATI489C family of pilots.

ATI488C-31 Counterbore - Aircraft Type - 1 3/8" Cutting Diameter.

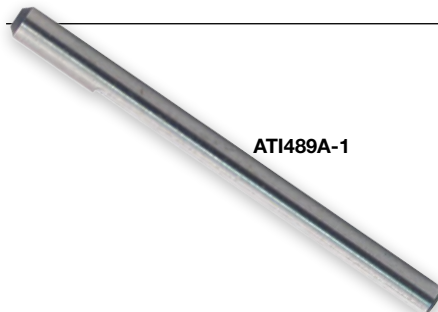
4-flute, 2 13/16" length, 3/8" shank diameter, 3/16" pilot hole, uses ATI489C family of pilots.

ATI488C-32 Counterbore - Aircraft Type - 1 1/2" Cutting Diameter.

4-flute, 2 13/16" length, 3/8" shank diameter, 3/16" pilot hole, uses ATI489C family of pilots.

Counterbores

Heat-Treated M2 High Speed Steel



ATI489A-1

ATI489A-1 Pilot - Counterbore, 3/32" Shank Diameter, 3/32" Pilot Diameter.

Flat surface for set screw security, use with ATI488C-1 through ATI488C-5 counterbores.
NSN #3460-01-513-0144

ATI489A-3 Pilot - Counterbore, 3/32" Shank Diameter, 5/32" Pilot Diameter.

Flat surface for set screw security, use with ATI488C-1 through ATI488C-5 counterbores.

ATI489A-5 Pilot - Counterbore, 3/32" Shank Diameter, 3/16" Pilot Diameter.

Flat surface for set screw security, use with ATI488C-1 through ATI488C-5 counterbores.
NSN #3460-00-932-3313

ATI489A-8 Pilot - Counterbore, 3/32" Shank Diameter, 1/4" Pilot Diameter.

Flat surface for set screw security, use with ATI488C-1 through ATI488C-5 counterbores.
NSN #3460-00-932-3316



ATI489B-8

ATI489B-2 Pilot - Counterbore, 1/8" Shank Diameter, 1/8" Pilot Diameter.

Flat surface for set screw security, use with ATI488C-6 through ATI488C-13 counterbores.

ATI489B-3 Pilot - Counterbore, 1/8" Shank Diameter, 5/32" Pilot Diameter.

Flat surface for set screw security, use with ATI488C-6 through ATI488C-13 counterbores.

ATI489B-5 Pilot - Counterbore, 1/8" Shank Diameter, 3/16" Pilot Diameter.

Flat surface for set screw security, use with ATI488C-6 through ATI488C-13 counterbores.

ATI489B-6 Pilot - Counterbore, 1/8" Shank Diameter, #10 Pilot Diameter.

Flat surface for set screw security, use with ATI488C-6 through ATI488C-13 counterbores.

ATI489B-8 Pilot - Counterbore, 1/8" Shank Diameter, 1/4" Pilot Diameter.

Flat surface for set screw security, use with ATI488C-6 through ATI488C-13 counterbores.

ATI489B-10 Pilot - Counterbore, 1/8" Shank Diameter, 9/32" Pilot Diameter.

Flat surface for set screw security, use with ATI488C-6 through ATI488C-13 counterbores.

ATI489B-11 Pilot - Counterbore, 1/8" Shank Diameter, 5/16" Pilot Diameter.

Flat surface for set screw security, use with ATI488C-6 through ATI488C-13 counterbores.

ATI489B-13 Pilot - Counterbore, 1/8" Shank Diameter, 3/8" Pilot Diameter.

Flat surface for set screw security, use with ATI488C-6 through ATI488C-13 counterbores.

ATI489B-14 Pilot - Counterbore, 1/8" Shank Diameter, 13/32" Pilot Diameter.

Flat surface for set screw security, use with ATI488C-6 through ATI488C-13 counterbores.

Counterbore Pilots

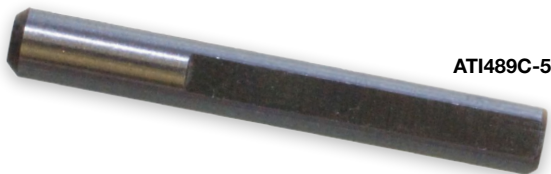


WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Counterbore Pilots



ATI489C-5

ATI489C-5 Pilot - Counterbore, 3/16" Shank Diameter, 3/16" Pilot Diameter.
Flat surface for set screw security, use with ATI488C-14 through ATI488C-32 counterbores.

ATI489C-8 Pilot - Counterbore, 3/16" Shank Diameter, 1/4" Pilot Diameter.
Flat surface for set screw security, use with ATI488C-14 through ATI488C-32 counterbores.

ATI489C-11 Pilot - Counterbore, 3/16" Shank Diameter, 5/16" Pilot Diameter.
Flat surface for set screw security, use with ATI488C-14 through ATI488C-32 counterbores.

ATI489C-13 Pilot - Counterbore, 3/16" Shank Diameter, 3/8" Pilot Diameter.
Flat surface for set screw security, use with ATI488C-14 through ATI488C-32 counterbores.

ATI489C-15 Pilot - Counterbore, 3/16" Shank Diameter, 7/16" Pilot Diameter.
Flat surface for set screw security, use with ATI488C-14 through ATI488C-32 counterbores.

ATI489C-17 Pilot - Counterbore, 3/16" Shank Diameter, 1/2" Pilot Diameter.
Flat surface for set screw security, use with ATI488C-14 through ATI488C-32 counterbores.

Kits

ATI590S Back Spot Facer Cutter Kit - 16 Pieces.
Kit includes 8 back spot facers and 8 pilots respectively;
• 1/4" diameter with 3/32" pilot
• 5/16" diameter with 1/8" pilot
• 3/8" diameter with 5/32" pilot
• 1/2" diameter with 3/16" pilot
• 5/8" diameter with 1/4" pilot
• 3/4" diameter with 5/16" pilot
• 1" diameter with 3/8" pilot
• 1 1/4" diameter with 1/2" pilot
NSN #5133-01-014-5669

ATI590TA Back Countersink Cutter Kit - 16 Pieces.
Kit includes 8, 100-degree countersinks and 8 pilots respectively;
• 1/4" diameter with 3/32" pilot
• 5/16" diameter with 1/8" pilot
• 3/8" diameter with 5/32" pilot
• 1/2" diameter with 3/16" pilot
• 3/4" diameter with 1/4" pilot
• 7/8" diameter with 5/16" pilot,
• 1" diameter with 3/8" pilot
• 1 1/4" diameter with 1/2" pilot.
NSN #5133-01-428-5695



ATI590S

Back Spotfacers

ATI403A Back Spotfacer - 1/4" OD.
1/4" Body Diameter, 3/32" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-1 Pilot. NSN #5133-01-392-8987

ATI403C Back Spotfacer - 5/16" OD.
5/16" Body Diameter, 1/8" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-2 Pilot. NSN #5133-01-392-8984

ATI403D Back Spotfacer - 5/16" OD.
5/16" Body Diameter, 5/32" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-3 Pilot.

ATI403F Back Spotfacer - 3/8" OD.
3/8" Body Diameter, 5/32" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-3 Pilot. NSN #5133-01-392-8985

ATI403G Back Spotfacer - 7/16" OD.
7/16" Body Diameter, 3/16" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-4 Pilot. NSN #5133-01-392-8989

ATI403I Back Spotfacer - 1/2" OD.
1/2" Body Diameter, 3/16" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-4 Pilot.

ATI403K Back Spotfacer - 9/16" OD.
9/16" Body Diameter, 3/16" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-4 Pilot.

ATI403M Back Spotfacer - 5/8" OD.
5/8" Body Diameter, 1/4" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-5 Pilot.

ATI403Q Back Spotfacer - 3/4" OD.
3/4" Body Diameter, 1/4" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-5 Pilot.

ATI403R Back Spotfacer - 3/4" OD.
3/4" Body Diameter, 5/16" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-6 Pilot.

ATI403X Back Spotfacer - 1 1/4" OD.
1-1/4" Body Diameter, 1/2" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-8 Pilot.



ATI403F



ATI403R



ATI403X

Back Countersinks



AT1402I-4

AT1402B-4 Back Countersink - 1/4" OD.
1/4" Body Diameter, 3/32" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use AT1404-1 Pilot. NSN #5133-01-428-5631

AT1402C-4 Back Countersink - 5/16" OD.
5/16" Body Diameter, 1/8" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use AT1404-2 Pilot. NSN #5133-01-057-0979

AT1402F-4 Back Countersink - 3/8" OD.
3/8" Body Diameter, 5/32" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use AT1404-3 Pilot. NSN #5133-01-428-5638



AT1402M-4

AT1402I-4 Back Countersink - 1/2" OD.
1/2" Body Diameter, 3/16" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use AT1404-4 Pilot. NSN #5133-01-428-5610

AT1402M-4 Back Countersink - 5/8" OD.
5/8" Body Diameter, 1/4" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use AT1404-5 Pilot. NSN #5133-01-428-5656

Pilots

AT1404-1 3/32" Back Spotfacer Pilot.
3/32" diameter, 6" overall length, positive lock.
AKA: Bayonet Lock. NSN #5133-01-429-5868

AT1404-2 1/8" Back Spotfacer Pilot.
1/8" diameter, 6" overall length, positive lock.
AKA: Bayonet Lock. NSN #3460-00-902-1363

AT1404-3 5/32" Back Spotfacer Pilot.
5/32" diameter, 6" overall length, positive lock.
AKA: Bayonet Lock. NSN #3460-00-902-1370

AT14044 3/16" Back Spotfacer Pilot.
3/16" diameter, 6" overall length, positive lock.
AKA: Bayonet Lock. NSN #3460-00-902-1374

AT14045 1/4" Back Spotfacer Pilot.
1/4" diameter, 6" overall length, positive lock.
AKA: Bayonet Lock. NSN #3460-00-902-1391

AT1404-6 5/16" Back Spotfacer Pilot.
5/16" diameter, 6" overall length, positive lock.
AKA: Bayonet Lock. NSN #5133-01-429-5866

AT1404-8 1/2" Back Spotfacer Pilot.
1/2" diameter, 6" overall length, positive lock.
AKA: Bayonet Lock. NSN #5133-01-429-5867



AT14044

AT14045

AT1404-6

AT1404-8



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Dimple Die Kit



ATI206A-24PC

Tool Control Kit.

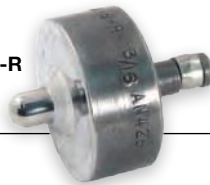
Kit Contains Three Body Lengths for Each Rivet Size.

ATI206A-24PC Dimple Die Kit-Cold

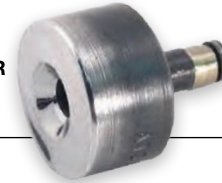
Kit includes 12 each male and female 3/16" shank, dimple-die combinations, for rivet sizes 3/32", 1/8", 5/32" and 3/16". Three different body lengths (1/4", 3/8" and 1/2") are provided for each rivet size.
NSN #5110-01-428-5694

Dimple Dies

ATI206A-6-R



ATI207A-5-R



ATI206A-3-P Male Dimple Die - Cold.

3/16" Shank Diameter, .56 Body Diameter, 1/4" Body Length for installing 3/32" AN426 Rivets.
NSN #5110-01-429-3685

ATI206A-4-P Male Dimple Die - Cold.

3/16" Shank Diameter, .62 Body Diameter, 1/4" Body Length for installing 1/8" AN426 Rivets.
NSN #5110-01-429-3686

ATI206A-5-P Male Dimple Die - Cold.

3/16" Shank Diameter, .68 Body Diameter, 1/4" Body Length for installing 5/32" AN426 Rivets.
NSN #5110-01-429-3692

ATI206A-6-P Male Dimple Die - Cold.

3/16" Shank Diameter, .87 Body Diameter, 1/4" Body Length for installing 3/16" AN426 Rivets.
NSN #5110-01-429-3694

ATI207A-3-P Female Dimple Die - Cold.

3/16" Shank Diameter, .56 Body Diameter, 1/4" Body Length for installing 3/32" AN426 Rivets.
NSN #5110-01-429-3577

ATI207A-4-P Female Dimple Die - Cold.

3/16" Shank Diameter, .62 Body Diameter, 1/4" Body Length for installing 1/8" AN426 Rivets.
NSN #5110-01-429-3582

ATI207A-5-P Female Dimple Die - Cold.

3/16" Shank Diameter, .68 Body Diameter, 1/4" Body Length for installing 5/32" AN426 Rivets.
NSN #5110-01-429-3596

ATI207A-6-P Female Dimple Die - Cold.

3/16" Shank Diameter, .75 Body Diameter, 1/4" Body Length for installing 3/16" AN426 Rivets.
NSN #5110-01-429-3616

ATI206A-3-R Male Dimple Die - Cold.

3/16" Shank Diameter, .56 Body Diameter, 3/8" Body Length for installing 3/32" AN426 Rivets.
NSN #5110-01-429-3684

ATI206A-4-R Male Dimple Die - Cold.

3/16" Shank Diameter, .62 Body Diameter, 3/8" Body Length for installing 1/8" AN426 Rivets.
NSN #5110-01-429-3687

ATI206A-5-R Male Dimple Die - Cold.

3/16" Shank Diameter, .68 Body Diameter, 3/8" Body Length for installing 5/32" AN426 Rivets.
NSN #5110-01-429-3690

ATI206A-6-R Male Dimple Die - Cold.

3/16" Shank Diameter, .87 Body Diameter, 3/8" Body Length for installing 3/16" AN426 Rivets.
NSN #5110-01-429-3691

ATI207A-3-R Female Dimple Die - Cold.

3/16" Shank Diameter, .56 Body Diameter, 3/8" Body Length for installing 3/32" AN426 Rivets.
NSN #5110-01-429-3579

ATI207A-4-R Female Dimple Die - Cold.

3/16" Shank Diameter, .62 Body Diameter, 3/8" Body Length for installing 1/8" AN426 Rivets.
NSN #5110-01-429-3592

ATI207A-5-R Female Dimple Die - Cold.

3/16" Shank Diameter, .68 Body Diameter, 3/8" Body Length for installing 5/32" AN426 Rivets.
NSN #5110-01-429-3593

ATI207A-6-R Female Dimple Die - Cold.

3/16" Shank Diameter, .75 Body Diameter, 3/8" Body Length for installing 3/16" AN426 Rivets.
NSN #5110-01-429-3608

ATI206A-3-S Male Dimple Die - Cold.

3/16" Shank Diameter, .56" Body Diameter, 1/2" Body Length for installing 3/32" AN426 Rivets.
NSN #5110-01-429-3688

ATI206A-4-S Male Dimple Die - Cold.

3/16" Shank Diameter, .62 Body Diameter, 1/2" Body Length for installing 1/8" AN426 Rivets.
NSN #5110-01-429-3690

ATI206A-5-S Male Dimple Die - Cold.

3/16" Shank Diameter, .68 Body Diameter, 1/2" Body Length for installing 5/32" AN426 Rivets.
NSN #5110-01-429-3693

ATI206A-6-S Male Dimple Die - Cold.

3/16" Shank Diameter, .87 Body Diameter, 1/2" Body Length for installing 3/16" AN426 Rivets.
NSN #5110-01-429-3573

ATI207A-3-S Female Dimple Die - Cold.

3/16" Shank Diameter, .56 Body Diameter, 1/2" Body Length for installing 3/32" AN426 Rivets.
NSN #5110-01-429-3594

ATI207A-4-S Female Dimple Die - Cold.

3/16" Shank Diameter, .62 Body Diameter, 1/2" Body Length for installing 1/8" AN426 Rivets.
NSN #5110-01-429-3606

ATI207A-5-S Female Dimple Die - Cold.

3/16" Shank Diameter, .68 Body Diameter, 1/2" Body Length for installing 5/32" AN426 Rivets.
NSN #5110-01-429-3598

ATI207A-6-S Female Dimple Die - Cold.

3/16" Shank Diameter, .75 Body Diameter, 1/2" Body Length for installing 3/16" AN426 Rivets.
NSN #5110-01-429-3610

Hi-Lok® Kits



ATISK3539A8

ATISK3539A8 Hi-Lok® Roller Clutch Wrench Kit.

Used for fastener installation in confined spaces. Kit includes 1/4" drive (zero backlash) roller clutch wrenches designed for maximum socket rotation with minimum handle movement. Hex sizes included are 7/32", 1/4", 5/16", 11/32", 3/8", 7/16".



ATISK3594K

ATISK3594K Comprehensive Hi-Lok® Kit - 1/4in Ratchet with Sockets and T-Hex Key.

Kit includes 1/4" square drive reversible ratchet, 1/4" square drive sockets included are 3/16", 7/32", 1/4", 9/32", 5/16", 11/32" and 3/8". The 1/16" hex key secures socket to ratchet drive. The 3/32" T-hex key engages the pin side of the Hi-Lok® fastener during installation.



ATI3594/95K

ATI3594/95K Comprehensive Hi-Lok® Kit - 1/4in and 3/8in Ratchet with Sockets and T-hex Keys.

Kit includes T-hex key and 1/4" and 3/8" square drive reversible ratchets respectively. Socket sizes for 1/4" square drive are 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8". Socket sizes for 3/8" square drive are 3/8", 7/16", 1/2". Also included is a 1/16" Hex Key for securing sockets to ratchet drive. T-Hex keys included are 5/64", 3/32", 1/8", 5/32" for securing pin side of Hi-Lok® fastener during installation.
NSN #5120-01-531-7011



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Hi-Lok® Wrenches

Easy Access to Tight Areas.

ATISK3539 1/4" Square Drive Hi-Lok® Roller Clutch Wrench - Black Handle.

Used for fastener installation in confined spaces. 1/4" drive, 3" handle length (zero backlash) roller clutch wrench is designed for maximum socket rotation with minimum handle movement. Can be used with any standard 1/4" drive socket.

ATISK3539L 1/4" Square Drive Hi-Lok® Roller Clutch Wrench - Black Handle.

Used for fastener installation in confined spaces. 1/4" drive, 6" handle length (zero backlash) roller clutch wrench is designed for maximum socket rotation with minimum handle movement. Can be used with any standard 1/4" drive socket.

ATISK3539BL 1/4" Square Drive Hi-Lok® Roller Clutch Wrench - Zinc Handle.

Used for fastener installation in confined spaces. 1/4" drive, 6" handle length (zero backlash) roller clutch wrench is designed for maximum socket rotation with minimum handle movement. Can be used with any standard 1/4" drive socket.

ATI3539IT732 Dedicated 7/32" Hex Hi-Lok® Roller Clutch Wrench - Black Handle.

Dedicated 7/32" hex, 3" handle length (zero backlash) roller clutch wrench is designed for maximum socket rotation with minimum handle movement. Used for fastener installation in confined spaces.



ATI3539IT38

ATISK3539L

ATI3539IT14 Dedicated 1/4" Hex Hi-Lok® Roller Clutch Wrench - Black Handle.

Dedicated 1/4" hex, 3" handle length (zero backlash) roller clutch wrench is designed for maximum socket rotation with minimum handle movement. Used for fastener installation in confined spaces.

ATI3539IT516 Dedicated 5/16" Hex Hi-Lok® Roller Clutch Wrench - Black Handle.

Dedicated 5/16" hex, 3" handle length (zero backlash) roller clutch wrench is designed for maximum socket rotation with minimum handle movement. Used for fastener installation in confined spaces.

ATI3539I1132 Dedicated 11/32" Hex Hi-Lok® Roller Clutch Wrench - Black Handle.

Dedicated 11/32" hex, 3" handle length (zero backlash) roller clutch wrench is designed for maximum socket rotation with minimum handle movement. Used for fastener installation in confined spaces.

ATI3539IT38 Dedicated 3/8" Hex Hi-Lok® Roller Clutch Wrench - Black Handle.

Dedicated 3/8" hex, 3" handle length (zero backlash) roller clutch wrench is designed for maximum socket rotation with minimum handle movement. Used for fastener installation in confined spaces.

ATI3539IT716 Dedicated 7/16" Hex Hi-Lok® Roller Clutch Wrench - Black Handle.

Dedicated 7/16" hex, 3" handle length (zero backlash) roller clutch wrench is designed for maximum socket rotation with minimum handle movement. Used for fastener installation in confined spaces.

Hi-Lok® Flank Drive® Sockets

ATI3596-.19 Hi-Lok® Socket - 1/4" Square Drive - 3/16" Hex.

Chrome plated with set screw for securing socket to ratchet square drive.

ATI3596-.22 Hi-Lok® Socket - 1/4" Square Drive - 7/32" Hex.

Chrome plated with set screw for securing socket to ratchet square drive.

ATI3596-.31 Hi-Lok® Socket - 1/4" Square Drive - 5/16" Hex.

Chrome plated with set screw for securing socket to ratchet square drive.

ATI3596-.38 Hi-Lok® Socket - 1/4" Square Drive - 3/8" Hex.

Chrome plated with set screw for securing socket to ratchet square drive.

ATI3597-.38 Hi-Lok® Socket - 3/8" Square Drive - 3/8" Hex.

Chrome plated with set screw for securing socket to ratchet square drive.

ATI3597-.50 Hi-Lok® Socket - 3/8" Square Drive - 1/2" Hex.

Chrome plated with set screw for securing socket to ratchet square drive.

ATI3596-.38

ATI3596-.31



Hi-Lok® Removal Tools

ATI2979U Hi-Lok® Fastener Removal Pliers.

Serrated-jaw pattern for removal of all aluminum Hi-Lok® fasteners. Comfort grip handles.

ZHP-100 Hi-Lok® Fastener Removal Pliers with Diamond-Cut Jaws.

Serrated-jaw pattern for removal of all aluminum Hi-Lok® fasteners. Comfort grip handles.



ATI2979U

Ratchets

ATIFY936 Hi-Lok® 1/4" Square Drive Ratchet.
Very popular Hi-Lok® ratchet. Used in confined areas.

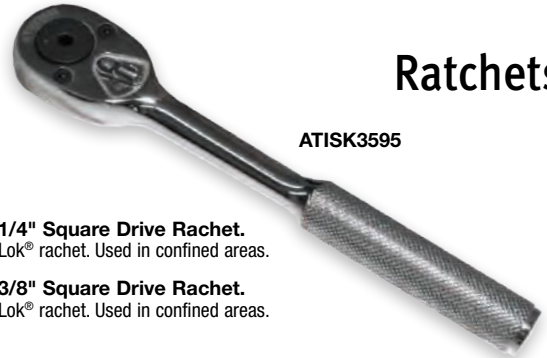
ATIFY936



ATISK3594 Hi-Lok® 1/4" Square Drive Ratchet.
Standard, but popular Hi-Lok® ratchet. Used in confined areas.

ATISK3595 Hi-Lok® 3/8" Square Drive Ratchet.
Standard, but popular Hi-Lok® ratchet. Used in confined areas.

ATISK3595



Torq-Set™ Insert Bits

TORQ-SET is a registered trademark of Phillips Screw Co.



| Insert Bits | Screw Size | Overall Length | Part No. |
|-------------|------------|----------------|----------|
| | 0" | 1" | ATIT0A1 |
| | 1" | 1" | ATIT1A1 |
| | 2" | 1" | ATIT2A1 |
| | 3" | 1" | ATIT3A1 |
| | 4" | 1" | ATIT4A1 |
| | 5" | 1" | ATIT5A1 |
| | 6" | 1" | ATIT6A1 |
| | 8" | 1" | ATIT8A1 |
| | 10" | 1" | ATIT10A1 |
| | 1/4" | 1" | ATIT16A1 |

Hi-Torque® Bits

ATIHTS-3



ATIHTS-3 #3 Hi-Torque® Bit - 1/4" Square Drive.
Blade thickness .059", width .377", 1/2" body diameter, 1" length.

ATIHTS-2 #2 Hi-Torque® Bit - 1/4" Square Drive.
Blade thickness .059", width .295", 1/2" body diameter, 1" length.

ATIHTS-4 #4 Hi-Torque® Bit - 1/4" Square Drive.
Blade thickness .073", width .502", 1/2" body diameter, 1" length.

Riveting Tool Kits



Clear zipper case included.

ATI590RGK3X

ATI590RGK3X Rivet Gun Kit.

Kit includes essentials for straight and offset riveting. Four commonly used bucking bars, eight cupped sets for 3/32", 1/8", 5/32" and 3/16", AN470 universal head rivets; three flush sets for AN426 rivets; two retainer springs, air regulator with durable case. NSN #5180-01-462-7729

ATI590RGK-4X Rivet Gun Kit.

Kit includes essentials for straight and offset riveting. Four commonly used bucking bars, eight cupped sets for 3/32", 1/8", 5/32" and 3/16", AN470 universal head rivets; three flush sets for AN426 rivets; two retainer springs, air regulator with durable case. NSN #5130-01-428-5692

Rivet Guns

ATIATC3X



ATIATC3X Rivet Gun Pistol Grip.

Power, control and industrial durability make these a popular choice for driving solid rivets. Both models have an excellent teasing trigger for precise control and upset uniformity. Beehive style retaining spring and air flow control valve are included. Most parts are interchangeable with Chicago Pneumatic "X" series rivet guns. Capacity 3/16" rivet, shank diameter .401, BPM 2160, length 6-1/2" and weight 3 lbs.

ATIATC4X



ATIATC4X Rivet Gun Pistol Grip.

Power, control and industrial durability make these a popular choice for driving solid rivets. Both models have an excellent teasing trigger for precise control and upset uniformity. Beehive style retaining spring and air flow control valve are included. Most parts are interchangeable with Chicago Pneumatic "X" series rivet guns. Capacity 1/4" rivet, shank diameter .401, BPM 1740, length 7-1/4" and weight 3 1/4" lbs.



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Retaining Springs

ATI114C-3



ATI114C-3 Spring Retainer-Quick Change. Quick change any rivet set that has safety spring shoulder, utilizes fast thumb release. Works with 3X and 4X rivet guns. Accommodates 1/2" and 5/8" body diameter rivet sets. NSN #5130-01-053-7939

ATI115A



ATI115A Retainer Spring-Beehive Type. Ideal for production usage. Safely retains rivet sets in 3X and 4X rivet gun. Accepts straight and 10 degree sets with 1/2" body diameters. NSN #5130-01-048-3113

Angle Attachments



ATI595CK



ATI595B 90 - Degree Adaptor For Use On Sioux And Ingersoll - Rand 3X and 4X Rivet Gun.

For installing up to 5/32" diameter rivets. Uses ATI11757AP family of rivet sets. NSN #5130-01-522-9806

ATI595C 90 - Degree Adaptor For Use On Chicago Pneumatic 3X and 4X Rivet Gun.

For installing up to 5/32" diameter rivets. Uses ATI11757AP family of rivet sets.

ATI595CK 90 - Degree Rivet Gun Adaptor Package.

Package includes one each ATI595C rivet gun adaptor, four rivet sets for installing 1/8" AN470, 3/32" AN470, 5/32" AN470 and one flush head respectively. 326b NSN #5130-01-406-9627

Rivet Sets, Straight Drive



ATI100A71/8



ATI100A2316

ATI100A2-332 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 2 1/2" length for installing 3/32" AN470 rivet. NSN #5120-01-073-3997

ATI100A218 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 2 1/2" length for installing 1/8" AN470 rivet. NSN #5120-01-073-3998

ATI100A2532 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 2 1/2" length for installing 5/32" AN470 rivet. NSN #5120-01-073-3996

ATI100A2316 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 2 1/2" length for installing 3/16" AN470 rivet.

ATI100A214 Cupped Rivet Set 5/8" Body.

Straight-drive, 401 shank, 2 1/2" length for installing 1/4" AN470 rivet. NSN #5120-01-073-3999

ATI100A33/32 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 3 1/2" length for installing 3/32" AN470 rivet. NSN #5130-01-368-4478

ATI100A3-1/8 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 3 1/2" length for installing 1/8" AN470 rivet. NSN #5130-01-368-4479

ATI100A35/32 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 3 1/2" length for installing 5/32" AN470 rivet. NSN #5130-01-368-4480

ATI100A33/16 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 3 1/2" length for installing 3/16" AN470 rivet. NSN #5130-01-368-4481

ATI100A37/32 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 3 1/2" length for installing 7/32" AN470 rivet.

ATI100A3-1/4 Cupped Rivet Set 5/8" Body.

Straight-drive, 401 shank, 3 1/2" length for installing 1/4" AN470 rivet. NSN #5130-01-388-9848

ATI100A53/32 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 5 1/2" length for installing 3/32" AN470 rivet. NSN #5130-01-388-9862

ATI100A51/8 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 5 1/2" length for installing 1/8" AN470 rivet. NSN #5130-01-388-9854

ATI100A55/32 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 5 1/2" length for installing 5/32" AN470 rivet. NSN #5130-01-388-9854

ATI100A53/16 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 5 1/2" length for installing 3/16" AN470 rivet. NSN #5130-01-388-9859

ATI100A514 Cupped Rivet Set 5/8" Body.

Straight-drive, 401 shank, 5 1/2" length for installing 1/4" AN470 rivet. NSN #5130-01-388-9906

ATI100A73/32 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 7 1/2" length for installing 3/32" AN470 rivet. NSN #5130-01-388-9858

ATI100A71/8 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 7 1/2" length for installing 1/8" AN470 rivet. NSN #5130-01-388-9846

ATI100A75/32 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 7 1/2" length for installing 5/32" AN470 rivet. NSN #5130-01-388-9886

ATI100A73/16 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 7 1/2" length for installing 3/16" AN470 rivet. NSN #5130-01-388-9850

ATI100A8332 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 10 1/2" length for installing 3/32" AN470 rivet. NSN #5130-01-368-4486

ATI100A818 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 10 1/2" length for installing 1/8" AN470 rivet. NSN #5130-01-368-4487

ATI100A8532 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 10 1/2" length for installing 5/32" AN470 rivet. NSN #5130-01-368-4488

ATI100A8316 Cupped Rivet Set 1/2" Body.

Straight-drive, 401 shank, 10 1/2" length for installing 3/16" AN470 rivet. NSN #5130-01-368-4489



ATI100AF-3A

ATI100AF-3A Flush Rivet Set.

Straight-drive, 401 shank, 3 1/2" length for installing flush rivets. NSN #5130-01-368-4496

ATI100AF-5A Flush Rivet Set.

Straight-drive, 401 shank, 5 1/2" length for installing flush rivets. NSN #5130-01-388-9863

ATI100AF-3B Flush Rivet Set 5/8" Body.

Straight-drive, 401 shank, 3 1/2" length for installing flush rivets.

Rivet Sets, Offset Drive

ATI101A53/16



ATI101A33/32 Cupped Rivet Set - Offset 1/2" Body.
Offset-drive, 401 shank, 3 1/2" length for installing 3/32" AN470 rivet. NSN #5130-01-368-4474

ATI101A3-1/8 Cupped Rivet Set - Offset 1/2" Body.
Offset-drive, 401 shank, 3 1/2" length for installing 1/8" AN470 rivet. NSN #5130-01-368-4475

ATI101A35/32 Cupped Rivet Set - Offset 1/2" Body.
Offset-drive, 401 shank, 3 1/2" length for installing 5/32" AN470 rivet. NSN #5130-01-368-4476

ATI101A3316 Cupped Rivet Set - Offset 1/2" Body.
Offset-drive, 401 shank, 3 1/2" length for installing 3/16" AN470 rivet. NSN #5130-01-368-4477

ATI101A3-1/4 Cupped Rivet Set - Offset 5/8" Body.
Offset-drive, 401 shank, 3 1/2" length for installing 1/4" AN470 rivet. NSN #5130-00-138-5288

ATI10173/16



ATI101A53/32 Cupped Rivet Set - Offset 1/2" Body.
Offset-drive, 401 shank, 5 1/2" length for installing 3/32" AN470 rivet. NSN #5130-01-388-9873

ATI101A518 Cupped Rivet Set - Offset 1/2" Body.
Offset-drive, 401 shank, 5 1/2" length for installing 1/8" AN470 rivet. NSN #5130-01-388-9887

ATI101A5-532 Cupped Rivet Set - Offset 1/2" Body.
Offset-drive, 401 shank, 5 1/2" length for installing 5/32" AN470 rivet. NSN #5130-01-388-9880

ATI101A53/16 Cupped Rivet Set - Offset 1/2" Body.
Offset-drive, 401 shank, 5 1/2" length for installing 3/16" AN470 rivet. NSN #5130-01-388-9868

ATI101A514 Cupped Rivet Set - Offset 5/8" Body.
Offset-drive, 401 shank, 5 1/2" length for installing 1/4" AN470 rivet. NSN #5130-01-388-9877

ATI101A71/8 Cupped Rivet Set - Offset 1/2" Body.
Offset-drive, 401 shank, 7 1/2" length for installing 1/8" AN470 rivet. NSN #5130-01-388-9888

ATI101A75/32 Cupped Rivet Set - Offset 1/2" Body.
Offset-drive, 401 shank, 7 1/2" length for installing 5/32" AN470 rivet. NSN #5130-01-388-9885

ATI101A73/16 Cupped Rivet Set - Offset 1/2" Body.
Offset-drive, 401 shank, 7 1/2" length for installing 3/16" AN470 rivet. NSN #5130-01-388-9867



ATI104A-5/32

ATI104A-5/32 Cupped Rivet Set - Gooseneck.
Gooseneck-drive, 401 shank, 6 5/8" length for installing 5/32" AN470 rivets. Made from forged steel blank. NSN #5130-01-388-9851

ATI101AF-3A



ATI101AF-3A Flush Rivet Set - Offset.
Offset-drive, 401 shank, 3 1/2" length for installing flush rivets.

ATI101AF-5A Flush Rivet Set - 1/2" Body - Offset.
Offset-drive, 401 shank, 5 1/2" length for installing flush rivets.



ATI106A

ATI106A Flush Set Swivel.
Flush set ball swivel type, 401 shank, 3 1/2" length, 1 1/4" face with rubber guard and retainer spring for installing flush rivets. NSN #5130-00-084-2029



ATI105A-3/16

ATI105A-3/32 Cupped Rivet Set Double Offset.
3/8" double offset, 401 shank, 5 3/4" length for installing 3/32" AN470 rivet. NSN #5130-01-388-9861

ATI105A-1/8 Cupped Rivet Set Double Offset.
3/8" double offset, 401 shank, 5 3/4" length for installing 1/8" AN470 rivet. NSN #5130-01-388-9849

ATI105A-5/32 Cupped Rivet Set Double Offset.
3/8" double offset, 401 shank, 5 3/4" length for installing 5/32" AN470 rivet. NSN #5130-01-388-9842

ATI105A-3/16 Cupped Rivet Set Double Offset.
3/8" double offset, 401 shank, 5 3/4" length for installing 3/16" AN470 rivet. NSN #5130-01-388-9855

ATI107A-1 Flush Set Straight.
Flush set straight, 401 shank, 2 3/4" length, 1" diameter face for installing flush rivets. NSN #5130-01-388-9847

ATI107A-2 Flush Set Straight.
Flush set straight, 401 shank, 2 3/4" length, 1 1/4" diameter face for installing flush rivets. NSN #5130-01-388-9853

ATI107A-1



ATI107A-3 Flush Set Straight.
Flush set straight, 401 shank, 3 1/2" length, 1 1/4" diameter face for installing flush rivets. NSN #5130-01-368-4497

ATI107A-4 Flush Set Straight.
Flush set straight, 401 shank, 5 1/2" length, 1" diameter face for installing flush rivets. NSN #5130-01-388-9857



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Rivet Sets



ATI107A-2D

ATI107A-2D Peening Tool.
Peening tool, .401 shank, 3 1/4" length, 1" diameter face, aluminum head for straightening aluminum after forming. NSN #5130-01-422-1483

ATI107A2DB Peening Tool.
Peening tool, .401 shank, 3 1/4" length, 1" diameter face, brass head for straightening aluminum after forming.



ATI110CB

ATI110CA Rivet Set - Flush, Anti - Slip Edge.
.401 shank, 2 1/2" length, 3/4" diameter face, rubber guard added to prevent slipping and damage to skin surface. NSN #5130-01-388-9860

ATI110CB Rivet Set - Flush, Anti - Slip Edge.
.401 shank, 2 1/2" length, 1" diameter face, rubber guard added to prevent slipping and damage to skin surface. NSN #5130-01-388-9864

ATI110CC Rivet Set - Flush, Anti - Slip Edge.
.401 shank, 2 1/2" length, 1 1/4" diameter face, rubber guard added to prevent slipping and damage to skin surface. NSN #5130-01-086-8885

ATI112A Rivet Set - Flush Mushroom Type.
.401 shank, 3" length, 1 7/8" diameter face, crowned for riveting thin sections without danger of denting or dishing skin surface. NSN #5130-01-388-9852



ATI112A

ATI113A-1 Flush Rivet Set - Extra Short.
.401 shank, 1 11/16" length, 3/4" diameter face, length of set allows riveting in limited areas.



ATI113A-1

ATI113A-2 Flush Rivet Set - Extra Short.
.401 shank, 1 13/16" length, 1" diameter face, length of set allows riveting in limited areas. NSN #5130-00-084-2032



ATI119A-1B

ATI119A-1B Rivet Set, Flush.
.401 Shank Diameter, 3/4" Face Diameter, 2-1/8" Overall Length. Stubby type for riveting in limited areas. Crowned face prevents damage to skin surface. NSN #5130-01-368-4498

ATI119A-3B Rivet Set, Flush.
.401 Shank Diameter, 1 1/8" Face Diameter, 2-1/8" Overall Length. Stubby type for riveting in limited areas. Crowned face prevents damage to skin surface. NSN #5130-01-388-9889

ATI119A-2B Rivet Set, Flush.
.401 Shank Diameter, 1" Face Diameter, 2-1/8" Overall Length. Stubby type for riveting in limited areas. Crowned face prevents damage to skin surface. NSN #5130-01-388-9856

ATI119A4B Rivet Set, Flush.
.401 Shank Diameter, 1 1/4" Face Diameter, 2-1/8" Overall Length. Stubby type for riveting in limited areas. Crowned face prevents damage to skin surface. NSN #5130-01-388-9875

ATI121A-3 Rivet Set, Flush, Offset.
.401 Shank Diameter, 10 Degree Offset, 1-1/4" Face Diameter, Crowned to prevent damage to skin surface. 3-1/2" Overall Length. NSN #5130-01-388-9883



ATI121A-3

ATI121A-4 Rivet Set, Flush, Offset.
.401 Shank Diameter, 10 Degree Offset, 1" Face Diameter, Crowned to prevent damage to skin surface. 5-1/2" Overall Length. NSN #5130-01-388-9871

ATI121A-6 Rivet Set, Flush, Offset.
.401 Shank Diameter, 10 Degree Offset, 1" Face Diameter, Crowned to prevent damage to skin surface. 7-1/2" Overall Length. NSN #5130-01-388-9882

Boeing® Rivet Sets

ATIST1111BK1 Boeing® Design - Rivet Set - Flush Anti - Slip Edge.
Manufactured to Boeing® specification, .401 shank, 2 1/2" length, 3/4" diameter face, polyurethane rim to prevent slipping and damage to skin surface.

ATIST1111BK2 Boeing® Design - Rivet Set - Flush Anti - Slip Edge.
Manufactured to Boeing® specification, .401 shank, 2 1/2" length, 1" diameter face, polyurethane rim to prevent slipping and damage to skin surface.



ATIST1111BK2

ATIST1111BK3 Boeing® Design - Rivet Set - Flush Anti - Slip Edge.
Manufactured to Boeing® specification, .401 shank, 2 5/16" length, 1 1/4" diameter face, polyurethane rim to prevent slipping and damage to skin surface.

ATI124B3



ATI124B3 Rivet Gun Shank Adaptor .401 To .498 Diameter.
Extends tool 3". Use 5X, 9X and 7X guns with standard .401 tools.

Rivet Set Extension and Adaptor



ATI124A-6 8in Extension For Rivet Sets.
Rivet set extension, .401 shank diameter and recess.

ATI124A-6

Rivet Cutters



ATI501R

ATI501R Rivet Cutter - 3/32in - 1/4in - Standard Handles.
Adjustable guide maintains rivet cutting length.



ATI501S

ATI501S Rivet Cutter - 3/32in - 1/4in - Long Handles.
Adjustable guide maintains rivet cutting length, 13" tubular handles for additional leverage, developed for the U.S. Government. NSN #5110-00-180-2892

Rivet Grip Gauges



ATI2612

ATI2612 Grip Scale.
Simple, self-explanatory scale determines material thickness and proper rivet grip length.



ATI269C3

ATI269C3 Cherry Max Grip Gauge.
For Cherrymax and Cherrylock rivets.



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Pneumatic Rivet Squeezers



ATI114TC

Pneumatic C-Type Rivet Squeezers Features:

- Quiet
- Simple and easy operation
- Ram speed can be controlled by throttle position
- Develops full squeezing force near the end of stroke
- Swivel air inlet aids maneuverability

| ATI Part No. | C-Squeeze | Yoke Reach | Aluminum Rivet Capacity | Steel Rivet Capacity | Overall Length | Weight with Jaws |
|--------------|-----------------|-------------------|-------------------------|----------------------|--------------------|------------------|
| ATI114C | Single Cylinder | 1-1/2" (38.10 mm) | 1/8" (3.18 mm) | 3/32" (2.38 mm) | 10-1/4" - 10-5/16" | 3.00 - 4.50 lbs |
| ATI114TC | Tandem Cylinder | 1-1/2" (38.10 mm) | 3/16" (4.76 mm) | 5/32" (3.97 mm) | 14" | 5.50 lbs |



ATI114A

Pneumatic Alligator Type Rivet Squeezers Features:

- Quiet
- Simple and easy operation
- Speed of squeeze riveter can be controlled by throttle
- Swivel air inlet aids maneuverability

| ATI Part No. | Alligator Squeeze | Yoke Reach | Aluminum Rivet Capacity | Steel Rivet Capacity | Overall Length | Weight with Jaws |
|--------------|-------------------|-------------------|-------------------------|----------------------|-------------------|------------------|
| ATI114A | Single Cylinder | 1-1/2" (38.10 mm) | 1/8" (3.18 mm) | 3/32" (2.38 mm) | 9-3/16" - 9-1/4" | 3.75 - 4.00 lbs |
| ATI114A214 | Single Cylinder | 2-1/4" (57.15 mm) | 3/32" (2.38 mm) | 3/32" (2.38 mm) | 10" - 10-1/8" | 4.25 - 4.50 lbs |
| ATI114A-3 | Single Cylinder | 3" (76.20 mm) | 3/32" (2.38 mm) | 1/16" (1.59 mm) | 10-3/4" - 10-7/8" | 4.50 - 5.00 lbs |
| ATI114TA | Tandem Cylinder | 1-1/2" (38.10 mm) | 3/16" (4.76 mm) | 5/32" (3.97 mm) | 11-3/16" - 12" | 4.75 - 5.50 lbs |
| ATI114TA214 | Tandem Cylinder | 2-1/4" (57.15 mm) | 3/16" (4.76 mm) | 1/8" (3.18 mm) | 12-3/4" - 13" | 5.25 - 6.00 lbs |
| ATI114TA3 | Tandem Cylinder | 3" (76.20 mm) | 5/32" (2.38 mm) | 3/32" (2.38 mm) | 14" | 5.50 - 6.25 lbs |



Power Riveter Tool Kit

ATIG747CMR - Power Riveter Tool Kit.

This kit provides the necessary tooling for the installation of CherryMAX® rivets. The G747 is a single-action, pneumatic-hydraulic tool that provides high power in a compact design. This kit will allow you to install NAS9301 through NAS9312 blind rivets, in all materials and grip lengths 1/8" through 3/16"; MS90353/4 and MS2140/1 TAF "S" Type blind bolts in 1/8" and 5/32" diameters; and MS20604/4 pull-through rivets, 3/32" diameter.



Lightweight Power Tool Kit

ATIG83AKT - Lightweight Power Tool Kit.

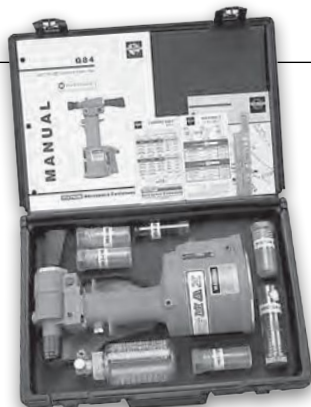
This kit provides the necessary tooling for the installation of MS blind bolts, CherryMAX® blind rivets and NAS style lock bolts, in all materials, grip lengths, head styles and diameters 5/32" and 3/16".



Hand Riveter Tool Kit

ATIG800CMR - Hand Riveter Tool Kit.

This kit provides the necessary tooling for the proper installation of CherryMAX® NAS1686 and NAS1687 rivets, all materials and grip lengths, 1/8" through 3/16". The pulling heads provided with the kit are able to install MS90353/4 and MS21140/1. TAF "S" type blind bolts in the 1/8" and 5/32" diameters.



Lightweight Lockbolt Power Tool Kit

ATIG84LBK - Lightweight Lockbolt Power Tool Kit.

This kit provides the necessary tooling for the installation of MS blind bolts and NAS-style Lock Bolts in all materials, grip lengths, head styles and diameters, 5/32", 3/16" and 1/4".

KIT COMPONENTS AVAILABLE SEPARATELY



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Rivet Squeezing - Hand



ATI501A

ATI501A Hand Rivet Squeezer - 2 1/2in Reach.

1 1/8" gap jaws are heat-treated tool steel, 18" handles provides leverage for ease of operation. Uses standard 3/16" shank tools. NSN #5120-01-334-6450



ATI502AHE

ATI502AHE 360° Hand Rivet Squeezer - 3in Reach.

360-degree yoke locks in any position, 3/8" stroke and 5/8" ram length adjustment, eliminates the necessity of shims. Uses standard 3/16" shank tools. Can be used for cold dimpling. NSN #5120-01-221-9097



ATI502TH11/2

ATI502TH11/2 Tex Hand Squeezer with 1 1/2in Yoke.

High quality stainless steel adjustable ram, rivet squeezer.

ATI502AHD 360° Hand Rivet Squeezer - 1 1/2in Reach.

360-degree yoke locks in any position, 3/8" stroke and 5/8" ram length adjustment, eliminates the necessity of shims. Uses standard 3/16" shank tools. Can be used for cold dimpling. NSN #5120-00-928-6628

Rivet Squeezers



ATI108A33PC

ATI108A33PC Rivet Squeezer Kit.

Kit includes 23 each of ATI108A cupped & 10 each of the ATI109 flush rivet squeezer set, 3/16" shank. For installing AN470 (MS20470) and AN426 rivets. NSN #5180-01-537-2420



ATI108AN3/32



ATI108AP5/32

ATI108AN3/32 Rivet Squeezer - Cupped.

3/16" Shank Diameter, 3/8" Body Diameter, 1/8" Body Length for installing 3/32" AN470 Cupped Rivets. NSN #5130-01-397-2919

ATI108AN1/8 Rivet Squeezer - Cupped.

3/16" Shank Diameter, 3/8" Body Diameter, 1/8" Body Length for installing 1/8" AN470 Cupped Rivets. NSN #5130-00-138-5298

ATI108AN5/32 Rivet Squeezer - Cupped.

3/16" Shank Diameter, 1/2" Body Diameter, 1/8" Body Length for installing 5/32" AN470 Cupped Rivets. NSN #5130-00-138-5302

ATI108AN3/16 Rivet Squeezer - Cupped.

3/16" Shank Diameter, 1/2" Body Diameter, 1/8" Body Length for installing 3/16" AN470 Cupped Rivets.

ATI108AP3/32 Rivet Squeezer - Cupped.

3/16" Shank Diameter, 3/8" Body Diameter, 1/4" Body Length for installing 3/32" AN470 Cupped Rivets. NSN #5130-01-397-2925

ATI108AP1/8 Rivet Squeezer - Cupped.

3/16" Shank Diameter, 3/8" Body Diameter, 1/4" Body Length for installing 1/8" AN470 Cupped Rivets. NSN #5130-01-397-2921

ATI108AP3/16 Rivet Squeezer - Cupped.

3/16" Shank Diameter, 1/2" Body Diameter, 1/4" Body Length for installing 3/16" AN470 Cupped Rivets. NSN #5130-01-397-2923

ATI108AP1/4 Rivet Squeezer - Cupped.

3/16" Shank Diameter, 5/8" Body Diameter, 1/4" Body Length for installing 1/4" AN470 Cupped Rivets. NSN #5130-01-397-2920

CNC Machined, No Sharp Edges

ATI108AS1/8



ATI108AS3/32



ATI108AT3/16



32 RMS Finish

ATI108AR3/32 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 3/8" Body Diameter, 3/8" Body Length for Installing 3/32" AN470 Cupped Rivets.
NSN #5130-01-397-2928

ATI108AS3/32 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 3/8" Body Diameter, 1/2" Body Length for Installing 3/32" AN470 Cupped Rivets.
NSN #5130-01-397-3097

ATI108AT1/8 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 3/8" Body Diameter, 5/8" Body Length for Installing 1/8" AN470 Cupped Rivets.
NSN #5130-01-397-3101

ATI108AR1/8 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 3/8" Body Diameter, 3/8" Body Length for Installing 1/8" AN470 Cupped Rivets.
NSN #5130-01-397-2926

ATI108AS1/8 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 3/8" Body Diameter, 1/2" Body Length for Installing 1/8" AN470 Cupped Rivets.
NSN #5130-01-397-3095

ATI108AT5/32 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 1/2" Body Diameter, 5/8" Body Length for Installing 5/32" AN470 Cupped Rivets.
NSN #5130-01-397-3103

ATI108AR5/32 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 1/2" Body Diameter, 3/8" Body Length for Installing 5/32" AN470 Cupped Rivets.
NSN #5130-01-397-2929

ATI108AS5/32 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 1/2" Body Diameter, 1/2" Body Length for Installing 5/32" AN470 Cupped Rivets.
NSN #5130-01-397-3098

ATI108AT3/16 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 1/2" Body Diameter, 5/8" Body Length for Installing 3/16" AN470 Cupped Rivets.
NSN #5130-01-397-3102

ATI108AR3/16 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 1/2" Body Diameter, 3/8" Body Length for Installing 3/16" AN470 Cupped Rivets.
NSN #5130-01-397-2927

ATI108AS3/16 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 1/2" Body Diameter, 1/2" Body Length for Installing 3/16" AN470 Cupped Rivets.
NSN #5130-01-397-3099

ATI108AW3/32 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 3/8" Body Diameter, 3/4" Body Length for Installing 3/32" AN470 Cupped Rivets.
NSN #5130-01-397-3106

ATI108AR14 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 5/8" Body Diameter, 3/8" Body Length for Installing 1/4" AN470 Cupped Rivets.

ATI108AS1/4 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 5/8" Body Diameter, 1/2" Body Length for Installing 1/4" AN470 Cupped Rivets.
NSN #5130-00-138-5305

ATI108AW1/8 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 3/8" Body Diameter, 3/4" Body Length for Installing 1/8" AN470 Cupped Rivets.
NSN #5130-01-397-3105

ATI108AT3/32 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 3/8" Body Diameter, 5/8" Body Length for Installing 3/32" AN470 Cupped Rivets.
NSN #5130-01-397-3100

ATI108AW5/32 Rivet Squeezer - Cupped.
3/16" Shank Diameter, 1/2" Body Diameter, 3/4" Body Length for Installing 5/32" AN470 Cupped Rivets.
NSN #5130-01-397-3107



ATI109EN



ATI109ER

16 RMS Finish



ATI109EW

ATI109AN Rivet Squeezer - Flush.
3/16" Shank Diameter, 1/2" Body Diameter, 1/8" Body Length for installing AN426 Flush Rivets.

ATI109AT Rivet Squeezer - Flush.
3/16" Shank Diameter, 1/2" Body Diameter, 5/8" Body Length for installing AN426 Flush Rivets.

ATI109ER Rivet Squeezer - Flush.
3/16" Shank Diameter, 3/8" Body Diameter, 3/8" Body Length for installing AN426 Flush Rivets.

ATI109AP Rivet Squeezer - Flush.
3/16" Shank Diameter, 1/2" Body Diameter, 1/4" Body Length for installing AN426 Flush Rivets.

ATI109AW Rivet Squeezer - Flush.
3/16" Shank Diameter, 1/2" Body Diameter, 3/4" Body Length for installing AN426 Flush Rivets.

ATI109ES Rivet Squeezer - Flush.
3/16" Shank Diameter, 3/8" Body Diameter, 1/2" Body Length for installing AN426 Flush Rivets.

ATI109AR Rivet Squeezer - Flush.
3/16" Shank Diameter, 1/2" Body Diameter, 3/8" Body Length for installing AN426 Flush Rivets.

ATI109EN Rivet Squeezer - Flush.
3/16" Shank Diameter, 3/8" Body Diameter, 1/8" Body Length for installing AN426 Flush Rivets.

ATI109ET Rivet Squeezer - Flush.
3/16" Shank Diameter, 3/8" Body Diameter, 5/8" Body Length for installing AN426 Flush Rivets.

ATI109AS Rivet Squeezer - Flush.
3/16" Shank Diameter, 1/2" Body Diameter, 1/2" Body Length for installing AN426 Flush Rivets.

ATI109EP Rivet Squeezer - Flush.
3/16" Shank Diameter, 3/8" Body Diameter, 1/4" Body Length for installing AN426 Flush Rivets.

ATI109EW Rivet Squeezer - Flush.
3/16" Shank Diameter, 3/8" Body Diameter, 3/4" Body Length for installing AN426 Flush Rivets.



ATI493D-1

ATI493D-1 Collar Cutter (Huck®) Lockbolt L6 3/16in - Hollow Core - Threaded Shank.
5/16" cutter diameter, 3/16" inside diameter, 1/4-28 threaded shank.



ATI493D-3

ATI493D-3 Collar Cutter (Huck®) Lockbolt L8 1/4in - Hollow Core - Threaded Shank.
7/16" cutter diameter, 1/4" inside diameter, 1/4-28 threaded shank.

Huck® Removal



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Hi-Shear® Removal

ATI493C-00 Collar Cutter (Hi-Shear®)
5/32" - Hollow Core - Threaded Shank.
3/8" cutter diameter, 5/32" inside diameter,
1/4-28 threaded shank.

ATI493C-1 Collar Cutter (Hi-Shear®)
3/16" - Hollow Core - Threaded Shank.
7/16" cutter diameter, 3/16" inside diameter,
1/4-28 threaded shank.

ATI493C-2 Collar Cutter (Hi-Shear®)
1/4" - Hollow Core - Threaded Shank.
1/2" cutter diameter, 1/4" inside diameter,
1/4-28 threaded shank.

ATI493C-3 Collar Cutter (Hi-Shear®)
5/16" - Hollow Core - Threaded Shank.
9/16" cutter diameter, 5/16" inside diameter,
1/4-28 threaded shank.



ATI493C-2

Huck® Removal

ATI2165-2 Chisel - Huck Lockbolt®.
.401 Shank Diameter, .62 Head Diameter, 5/32" Rivet
Size, 5-1/2" Over All Length. NSN #5130-01-368-4501

ATI2165-5 Chisel - Huck Lockbolt®.
.401 Shank Diameter, .81 Head Diameter, 5/16" Rivet
Size, 5-1/2" Over All Length.

ATI2165-3 Chisel - Huck Lockbolt®.
.401 Shank Diameter, .75 Head Diameter, 3/16" Rivet
Size, 5-1/2" Over All Length. NSN #5130-01-368-4502

ATI2165-6 Chisel - Huck Lockbolt®.
.401 Shank Diameter, .81 Head Diameter, 3/8" Rivet
Size, 5-1/2" Over All Length. NSN #5130-01-528-8164

ATI2165-4 Chisel - Huck Lockbolt®.
.401 Shank Diameter, .81 Head Diameter, 1/4" Rivet
Size, 5-1/2" Over All Length. NSN #5130-01-368-4503

ATI1206-6 Flat Chisel.
.401 Shank Diameter, 3/4" blade width, 6-3/4" overall
length. NSN #5130-01-368-4500



ATI2165-2

Hi-Shear® Installation Tools

ATI1134GA Gooseneck Adaptor - Jiffy® Extension.
Works with interchangeable inserts for Hi-Shear® collars, also
accommodates Jiffy® sets, ATI1757 (cupped) and ATI1758
(flush) rivet sets, and standard .401 shank diameter rivet sets.
NSN #5130-01-368-4499



ATI1134GA

Knock-Out Punches



ATI140A-3



ATI140A-6



ATI141A33/32

ATI140A-3 Knock Out Punch, Hi-Shear®.
.401 Shank Diameter, 3/32" Rivet Size, 3-1/2" Overall Length.

ATI140A-4 Knock Out Punch, Hi-Shear®.
.401 Shank Diameter, 1/8" Rivet Size, 3-1/2" Overall Length.

ATI140A-5 Knock Out Punch, Hi-Shear®.
.401 Shank Diameter, 5/32" Rivet Size, 3-1/2" Overall Length.

ATI140A-6 Knock Out Punch, Hi-Shear®.
.401 Shank Diameter, 3/16" Rivet Size, 3-1/2" Overall Length.

ATI140A-8 Knock Out Punch, Hi-Shear®.
.401 Shank, Diameter 1/4" Rivet Size, 3-1/2" Overall Length.

ATI140A-10 Knock Out Punch, Hi-Shear®.
.401 Shank Diameter, 5/16" Rivet Size, 3-1/2" Overall Length.

ATI141A33/32 Knock Out Punch.
.401 Shank Diameter, 3/32" Rivet Size, 3-1/2" Overall Length.

ATI141A31/8 Knock Out Punch.
.401 Shank Diameter, 1/8" Rivet Size, 3-1/2" Overall Length.

ATI141A35/32 Knock Out Punch.
.401 Shank Diameter, 5/32" Rivet Size, 3-1/2" Overall Length.

ATI141A33/16 Knock Out Punch.
.401 Shank Diameter, 3/16" Rivet Size, 3-1/2" Overall Length.

ATI141A31/4 Knock Out Punch.
.401 Shank Diameter, 1/4" Rivet Size, 3-1/2" Overall Length

ATI141A35/16 Knock Out Punch.
.401 Shank Diameter, 5/16" Rivet Size, 3-1/2" Overall Length.

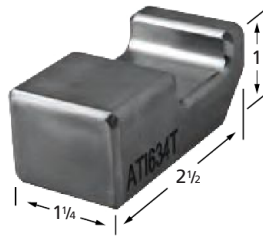
ATI141A33/8 Knock Out Punch.
.401 Shank Diameter, 3/8" Rivet Size, 3-1/2" Overall Length.

Tungsten Bucking Bars

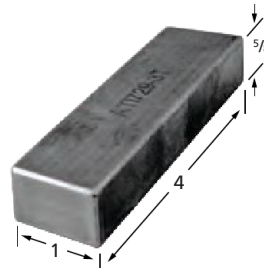
NEW....HIGH-DENSITY TUNGSTEN BUCKING BARS.

- Significantly reduces vibration and minimizes bucking bar movement when riveting
- Greatly improves operator comfort and safety
- Sharp edges are radiused up to 1/16" to prevent skin damage
- Smaller configured design provides enhanced bucking in tight areas
- Dipped in plastic to prevent damage during shipment and storage

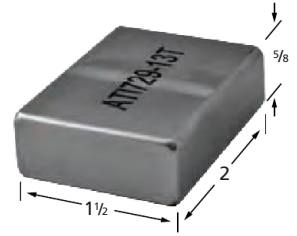
Note: Additional sizes and configurations can be manufactured upon special request.



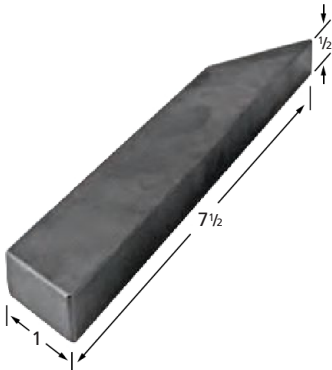
ATI634T Bucking Bar.
1.59 lbs (.72 kg)



ATI729-3T Bucking Bar.
1.55 lbs (.70 kg)



ATI729-13T Bucking Bar.
1.20 lbs (.54 kg)



ATI732T Bucking Bar.
2.11 lbs (.95 kg)



ATI764T Bucking Bar.
1.28 lbs (.58 kg)



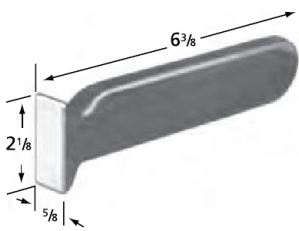
ATI765T Bucking Bar.
1.74 lbs (.78 kg)



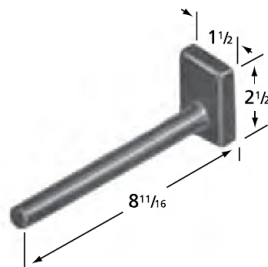
ATI766T Bucking Bar.
1.70 lbs (.77 kg)

Bucking Bars

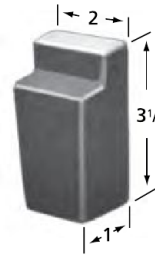
CNC Machined 32 RMS Finish.



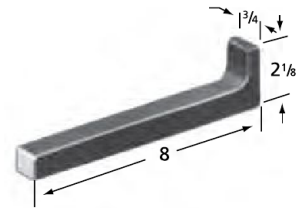
ATI602 Bucking Bar.
1.5 lbs (.68 kg)
NSN #5120-01-368-4236



ATI604 Bucking Bar.
1.5 lbs (.68 kg)
NSN #5120-01-368-4238



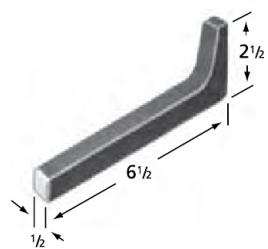
ATI605 Bucking Bar.
1.5 lbs (.68 kg)
NSN #5120-01-368-4351



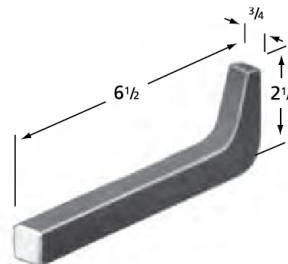
ATI608 Bucking Bar.
1.25 lbs (.57 kg)
NSN #5120-01-368-4241



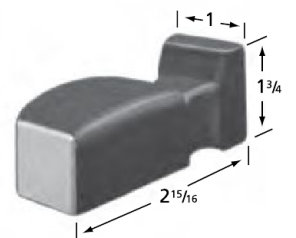
ATI610 Bucking Bar.
.75 lb (.34 kg)
NSN #5120-01-368-4353



ATI611 Bucking Bar.
1 lb (.45 kg)
NSN #5120-01-368-4243



ATI612 Bucking Bar.
1.25 lbs (.57 kg)
NSN #5120-01-368-4244



ATI616 Bucking Bar.
1 lb (.45 kg)
NSN #5120-01-368-4246

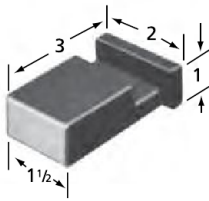


WARNING

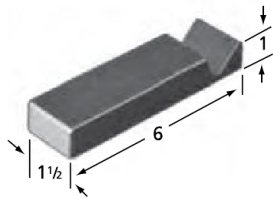
- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



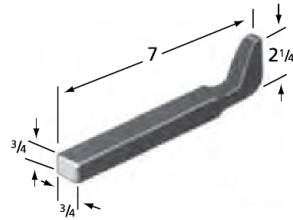
All Sharp Corners & Edges Are Radiused 1/32" - 1/16".



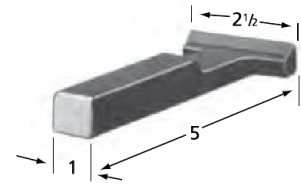
ATI619 Bucking Bar.
1.25 lbs (.57 kg)
NSN #5120-01-368-4355



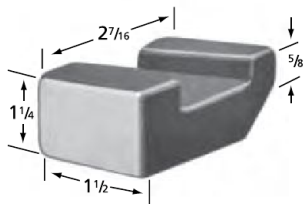
ATI622 Bucking Bar.
2.5 lbs (1.13 kgs)
NSN #5120-01-368-4224



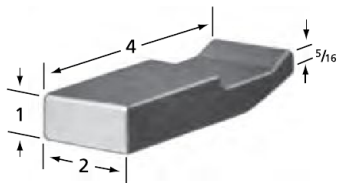
ATI629 Bucking Bar.
1 lb (.45 kg)
NSN #5120-01-368-4230



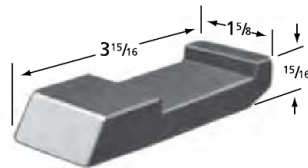
ATI633 Bucking Bar.
1.5 lbs (.68 kg)
NSN #5120-01-368-4233



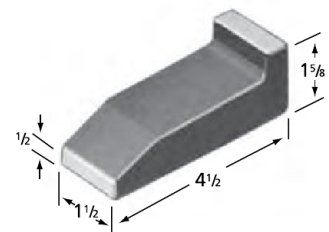
ATI634 Bucking Bar.
1 lbs (.45 kg)
NSN #5120-01-368-4356



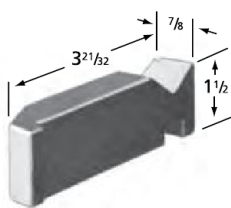
ATI637 Bucking Bar.
1.75 lbs (.79 kg)
NSN #5120-01-368-4235



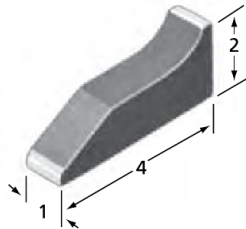
ATI638 Bucking Bar.
1.25 lbs (.57 kg)
NSN #5120-01-368-4292



ATI639 Bucking Bar.
2 lbs (.91 kg)
NSN #5120-01-368-4293



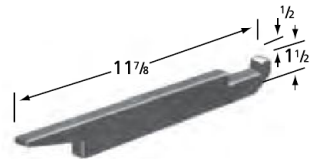
ATI643 Bucking Bar.
1.25 lbs (.57 kg)
NSN #5120-01-368-4297



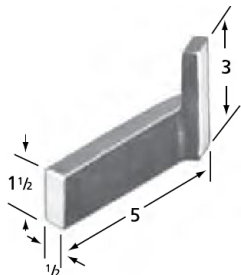
ATI647 Bucking Bar.
1.5 lbs (.68 kg)
NSN #5120-01-368-4358



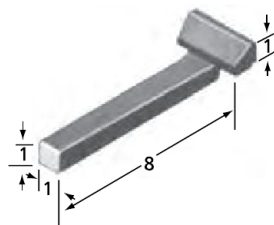
ATI648 Bucking Bar.
1.5 lbs (.68 kg)
NSN #5120-01-368-4299



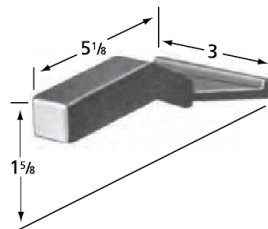
ATI649 Bucking Bar.
2 lbs (.91 kg)
NSN #5120-01-368-4359



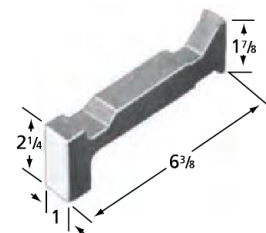
ATI656 Bucking Bar.
1.25 lbs (.57 kg)
NSN #5120-01-368-4303



ATI668 Bucking Bar.
3 lbs (1.36 kgs)
NSN #5120-01-368-4280

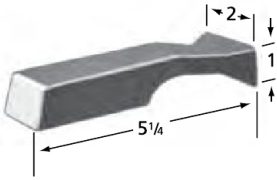


ATI669 Bucking Bar.
1.5 lbs (.68 kg)
NSN #5120-01-368-4363

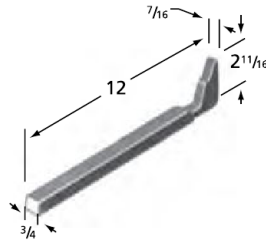


ATI670 Bucking Bar.
2 lbs (.91 kg)
NSN #5120-01-368-4364

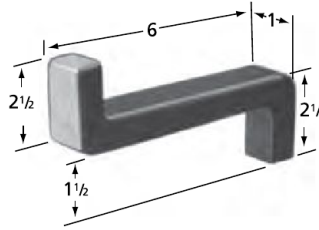
Smooth Edges Prevent Skin Damage.



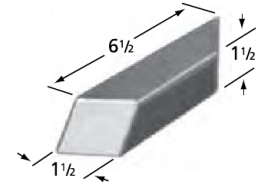
ATI681 Bucking Bar.
1.5 lbs (.68 kg)
NSN #5120-01-368-4287



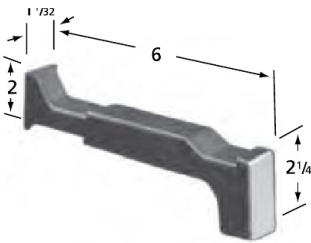
ATI685 Bucking Bar.
2 lbs (.91 kg)
NSN #5120-01-368-4290



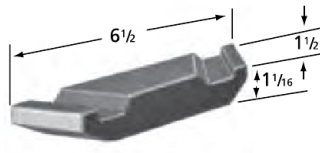
ATI690 Bucking Bar.
2.5 lbs (1.13 kgs)
NSN #5120-01-368-4367



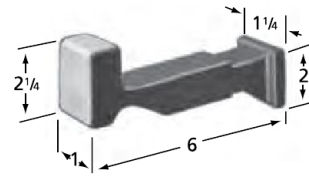
ATI692 Bucking Bar.
3.25 lbs (1.47 kgs)
NSN #5120-01-368-4352



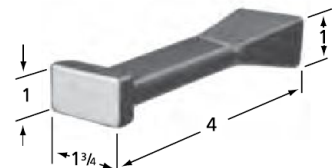
ATI694 Bucking Bar.
2 lbs (.91 kg)
NSN #5120-01-368-4308



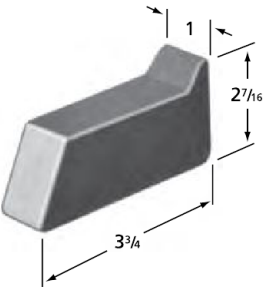
ATI702 Bucking Bar.
2 lbs (.91 kg)
NSN #5120-01-368-4314



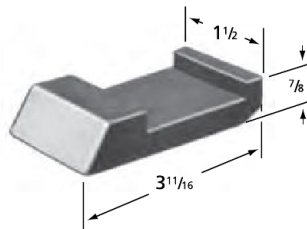
ATI719 Bucking Bar.
2 lbs (.91 kg)
NSN #5120-01-368-4320



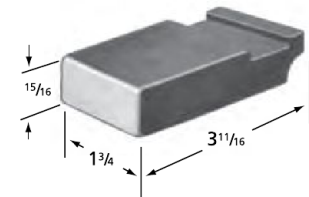
ATI720 Bucking Bar.
.75 lb (.34 kg)
NSN #5120-01-368-4321



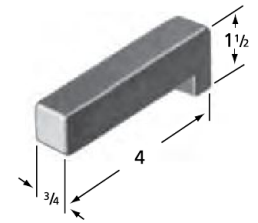
ATI721 Bucking Bar.
1.75 lbs (.79 kg)
NSN #5120-01-368-4247



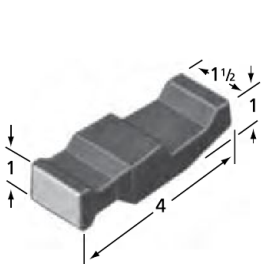
ATI722 Bucking Bar.
1 lb (.45 kg)
NSN #5120-01-368-4248



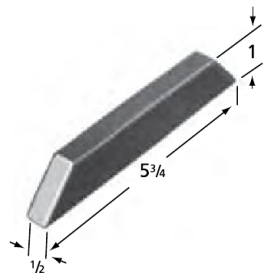
ATI723 Bucking Bar.
1.25 lbs (.57 kg)
NSN #5120-01-368-4249



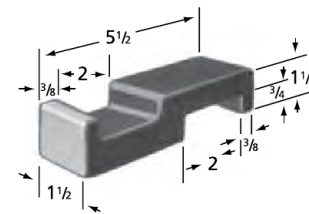
ATI727 Bucking Bar.
1 lb (.45 kg)
NSN #5120-01-368-4252



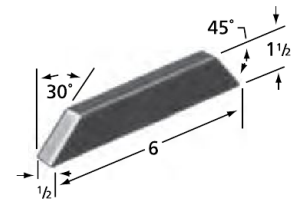
ATI730 Bucking Bar.
1.25 lbs (.57 kg)
NSN #5120-01-368-4255



ATI732 Bucking Bar.
.75 lb (.34 kg)
NSN #5120-01-368-4257



ATI736 Bucking Bar.
2.25 lbs (1.02 kgs)
NSN #5120-01-368-4259



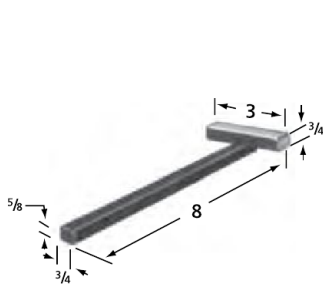
ATI737 Bucking Bar.
1 lb (.45 kg)
NSN #5120-01-368-4260



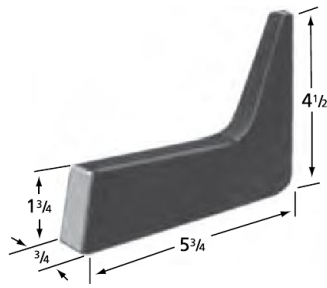
WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).

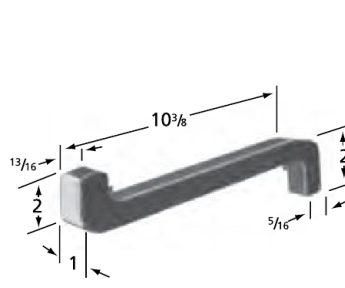




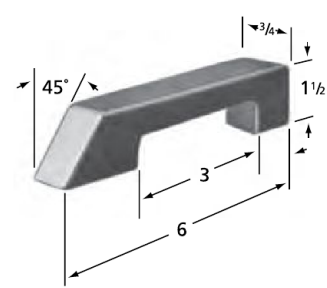
ATI750D-23 Bucking Bar.
1.75 lbs (.79 kg)
NSN #5120-01-368-4261



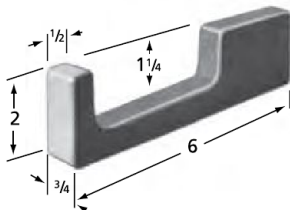
ATI750N-1 Bucking Bar.
2.5 lbs (1.13 kgs)
NSN #5120-01-368-4328



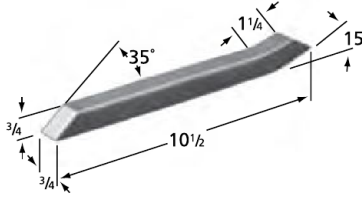
ATI750S-1 Bucking Bar.
2.75 lbs (1.25 kgs)
NSN #5120-01-368-4330



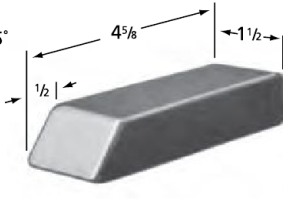
ATI760B-2 Bucking Bar.
1.25 lbs (.57 kg)
NSN #5120-01-368-4340



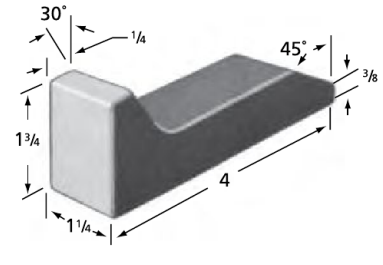
ATI760B-3 Bucking Bar.
1.75 lbs (.79 kg)
NSN #5120-01-368-4341



ATI760B-7 Bucking Bar.
1.5 lbs (.68 kg)
NSN #5120-01-368-4342



ATI760B-10 Bucking Bar.
2 lbs (.91 kg)
NSN #5120-01-368-4344



ATI763 Bucking Bar.
1.25 lbs (.57 kg)
NSN #5120-01-368-4349

Screw Removal

ATI540 Screw Removal Tool - 9" Length - 3/8" Square Drive.

.401" shank diameter, 9" overall length, use with optional ATI540SE-5 1/4" hex-bit adaptor.
NSN #5130-01-368-4504

ATI540S Screw Removal Tool - 4 1/2" Length - 3/8" Square Drive.

.401" shank diameter, 4 1/2" overall length, use with optional ATI540SE-5 1/4" hex-bit adaptor.
NSN #5120-01-418-9395

ATI540BL-7 Screw Removal Tool - 7 1/2" Length.

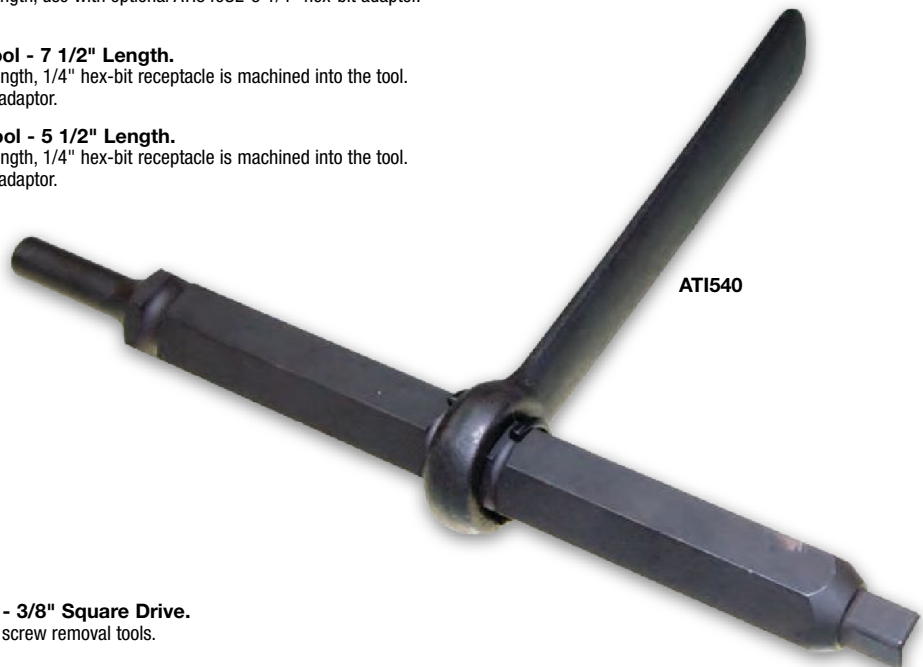
.401" shank diameter, 7 1/2" overall length, 1/4" hex-bit receptacle is machined into the tool.
Eliminates requirement for the hex-bit adaptor.

ATI540BS-5 Screw Removal Tool - 5 1/2" Length.

.401" shank diameter, 5 1/2" overall length, 1/4" hex-bit receptacle is machined into the tool.
Eliminates requirement for the hex-bit adaptor.



ATI540SE-5



ATI540

ATI540SE-5 1/4" Hex - Bit Adaptor - 3/8" Square Drive.
Use in conjunction with ATI540 and ATI540S screw removal tools.



ATI590L

ATI590L Rivet Shaver Kit.

Known as the micro miller kit. Includes a .75 hp, 20,000 rpm rivet shaver, cutters and skirts for 5/16", 3/8", 7/16", 1/2", 9/16", 5/8" and 3/4".



ATI429SXC

ATI429SXC Micro Miller - Rivet Shaver Gun.

3/4" cutter capacity, .0005" incremental depth adjustment, 1/4"-28 internal threaded spindle, utilizes Sioux® motor, .75 HP at 20,000 rpm, comfort grip, 2-1/2 lbs. NSN #5130-01-370-6734

Rivet Shaver and Kit

Skirts

ATI429A-1 Skirt Detail - Micro Miller.

5/16" cutter capacity used with ATI429B-1 cutter. Skirt and cutter are used with ATI429SXC Micro Miller rivet shaver. Exclusive only to ATI products.

ATI429A-7



ATI429A-2 Skirt Detail - Micro Miller.

3/8" cutter capacity used with ATI429B2 cutter. Skirt and cutter are used with ATI429SXC Micro Miller rivet shaver. Exclusive only to ATI products.

ATI429A-3 Skirt Detail - Micro Miller.

7/16" cutter capacity used with ATI429B-3 cutter. Skirt and cutter are used with ATI429SXC Micro Miller rivet shaver. Exclusive only to ATI products.

ATI429A-4 Skirt Detail - Micro Miller.

1/2" cutter capacity used with ATI429B-4 cutter. Skirt and cutter are used with ATI429SXC Micro Miller rivet shaver. Exclusive only to ATI products.

ATI429A-5 Skirt Detail - Micro Miller.

9/16" cutter capacity used with ATI429B-5 cutter. Skirt and cutter are used with ATI429SXC Micro Miller rivet shaver. Exclusive only to ATI products.

ATI429A-6 Skirt Detail - Micro Miller.

5/8" cutter capacity used with ATI429B-5 cutter. Skirt and cutter are used with ATI429SXC Micro Miller rivet shaver. Exclusive only to ATI products.

ATI429A-7 Skirt Detail - Micro Miller.

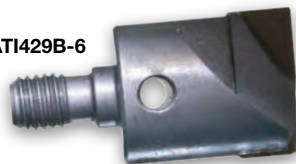
3/4" cutter capacity used with ATI429B-6 cutter. Skirt and cutter are used with ATI429SXC Micro Miller rivet shaver. Exclusive only to ATI products.

Cutters – Micro Miller

ATI429B-1 Cutter Detail - Micro Miller.

5/16" diameter carbide cutter used with ATI429A-1 skirt. Cutter and skirt are used with ATI429SXC Micro Miller rivet shaver or any 1/4-28" threaded Micro Miller.

ATI429B-6



ATI429B2 Cutter Detail - Micro Miller.

3/8" diameter carbide cutter used with ATI429A-2 skirt. Cutter and skirt are used with ATI429SXC Micro Miller rivet shaver or any 1/4-28" threaded Micro Miller.

ATI429B-3 Cutter Detail - Micro Miller.

7/16" diameter carbide cutter used with ATI429A-3 skirt. Cutter and skirt are used with ATI429SXC Micro Miller rivet shaver or any 1/4-28" threaded Micro Miller.

ATI429B-4 Cutter Detail - Micro Miller.

1/2" diameter carbide cutter used with ATI429A-4 skirt. Cutter and skirt are used with ATI429SXC Micro Miller rivet shaver or any 1/4-28" threaded Micro Miller.

ATI429B-5 Cutter Detail - Micro Miller.

9/16" diameter carbide cutter used with ATI429A-5 skirt. Cutter and skirt are used with ATI429SXC Micro Miller rivet shaver or any 1/4-28" threaded Micro Miller.

ATI429B-6 Cutter Detail - Micro Miller.

5/8" diameter carbide cutter used with ATI429A-6 skirt. Cutter and skirt are used with ATI429SXC Micro Miller rivet shaver or any 1/4-28" threaded Micro Miller.

ATI429B-7 Cutter Detail - Micro Miller.

3/4" diameter carbide cutter used with ATI429A-7 skirt. Cutter and skirt are used with ATI429SXC Micro Miller rivet shaver or any 1/4-28" threaded Micro Miller.



WARNING

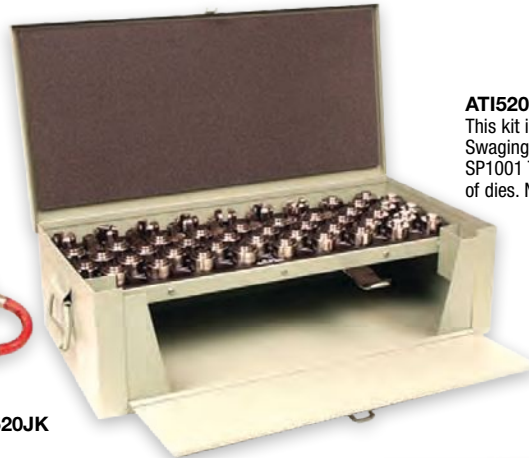
- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Equipment



ATI520JK



ATI520JK Cable Swager - Portable Kit.
This kit includes ATI520J Swager, ATI520SG Swaging Gauge, Felco C7 hand cable cutters, SP1001 Turnbuckle Wrench, and 27 ATI520 family of dies. NSN #5130-00-712-4855



ATI520J

ATI520J Cable Swager - Portable Unit.

This light weight unit is designed to precision-swage cable terminals. It can be used as a bench unit when mounted on the shock absorbing base, or taken directly to the scene of operation. The unit includes base plate, air hose and foot control. Dies must be ordered separately, see ATI520 family of dies. NSN #5130-01-212-9426



ATI520H

ATI520H Hydraulic Swager With Enerpac®.

Unit accommodates cable sizes to 3/8" and operates on an air supply of 100-120 psi. Swaging is performed by applying a designated number of pressure increments while rotating the cable-terminal assembly. An adaptor is provided which allows the ATI520H to accept standard ATI520 family of swaging dies, used with both the ATI520J and ATI520D pneumatic swagers.

Swaging Dies

ATI520CD-2



ATI520CD-2 Cutter Die - 1/16" Cable.

Female side of the cutter die, packaged individually. Perfectly cuts and/or trims cable strands flush with ball end. Eliminates ragged ends. Used with ATI520CP-2 male punch die.

ATI520CD-4 Cutter Die - 1/8" Cable.

Female side of the cutter die, packaged individually. Perfectly cuts and/or trims cable strands flush with ball end. Eliminates ragged ends. Used with ATI520CP-4 male punch die. NSN #5130-01-024-4011

ATI520CD-5 Cutter Die - 5/32" Cable.

Female side of the cutter die, packaged individually. Perfectly cuts and/or trims cable strands flush with ball end. Eliminates ragged ends. Used with ATI520CP-5 male punch die.



ATI520CP-2

ATI520CP-2 Punch Die - 1/16" Cable.

Male side of the cutter die, packaged individually. Perfectly cuts and/or trims cable strands flush with ball end. Eliminates ragged ends. Used with ATI520CD-2 female cutter die. Requires the use of spacer ATI520SP behind punch die.

ATI520CP-5 Punch Die - 5/32" Cable.

Male side of the cutter die, packaged individually. Perfectly cuts and/or trims cable strands flush with ball end. Eliminates ragged ends. Used with ATI520CD-5 female cutter die. Requires the use of spacer ATI520SP behind punch die.

ATI520CP-6 Punch Die - 3/16" Cable.

Male side of the cutter die, packaged individually. Perfectly cuts and/or trims cable strands flush with ball end. Eliminates ragged ends. Used with ATI520CD-6 female cutter die. Requires the use of spacer ATI520SP behind punch die.

ATI520CB-4



ATI520CB-2 Swaging Dies - 1/16" Cable Diameter.
Swages 1/16" diameter plain ball end terminal to cable.
Packaged as a matched pair.

ATI520CB-3 Swaging Dies - 3/32" Cable Diameter.
Swages 3/32" diameter plain ball end terminal to cable.
Packaged as a matched pair. NSN #5130-01-005-8884

ATI520CB-4 Swaging Dies - 1/8" Cable Diameter.
Swages 1/8" diameter plain ball end terminal to cable.
Packaged as a matched pair.

ATI520CDB-3



ATI520CDB-2 Swaging Dies - 1/16" Cable Diameter.
Swages MS20663-2 terminal to cable. Packaged as a matched pair.

ATI520CDB-3 Swaging Dies - 3/32" Cable Diameter.
Swages MS20663-3 terminal to cable. Packaged as a matched pair.

ATI520CDB-4 Swaging Dies - 1/8" Cable Diameter.
Swages MS20663-4 terminal to cable. Packaged as a matched pair.



ATI520CS-5

ATI520CS-2 Swaging Dies - 1/16" Cable Diameter.
Swages MS21259-2, MS20667-2, MS20668-2, MS21260-2 terminal to cable. Packaged as a matched pair.

ATI520CS-3 Swaging Dies - 3/32" Cable Diameter.
Swages MS21259-3, MS20667-3, MS20668-3, MS21260-3 and Boeing stop terminal BACT14A-2 to cable. Packaged as a matched pair.
NSN #5130-00-506-9964

ATI520CS-4 Swaging Dies - 1/8" Cable Diameter.
Swages MS21259-4, MS20667-4, MS20668-4, MS21260-4 and Boeing stop terminal BACT14A-3 to cable. Packaged as a matched pair.
NSN #5130-01-024-3054

ATI520CS-5 Swaging Dies - 5/32" Cable Diameter.
Swages MS21259-5, MS20667-5, MS20668-5, MS21260-5 and Boeing stop terminal BACT14A-4 to cable. Packaged as a matched pair.

ATI520CS-6 Swaging Dies - 3/16" Cable Diameter.
Swages MS21259-6, MS20667-6, MS20668-6, MS21260-6 and Boeing stop terminal BACT14A-5 to cable. Packaged as a matched pair.

ATI520CS-7 Swaging Dies - 7/32" Cable Diameter.
Swages MS21259-7, MS20667-7, MS20668-7, MS21260-7 and Boeing stop terminal BACT14A-6 to cable. Packaged as a matched pair.

ATI520CSB-3



ATI520CSB-2 Swaging Dies - 1/16" Cable Diameter.
Swages MS20664-2 terminal to cable. Packaged as a matched pair. NSN #5120-01-292-4516

ATI520CSB-3 Swaging Dies - 3/32" Cable Diameter.
Swages MS20664-3 terminal to cable. Packaged as a matched pair. NSN #5120-01-362-3318

ATI520CSB-4 Swaging Dies - 1/8" Cable Diameter.
Swages MS20664-4 terminal to cable. Packaged as a matched pair. NSN #5130-01-393-1283

ATI520CSB-6 Swaging Dies - 3/16" Cable Diameter.
Swages MS20664-6 terminal to cable. Packaged as a matched pair.

ATI520SG



ATI520SG Swaging Go - Limit Gauges.
Multiple gauges designed to check all swaged terminals within the designed range of the ATI520D and ATI520J swagers.

Gauge, Swaged Terminal



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



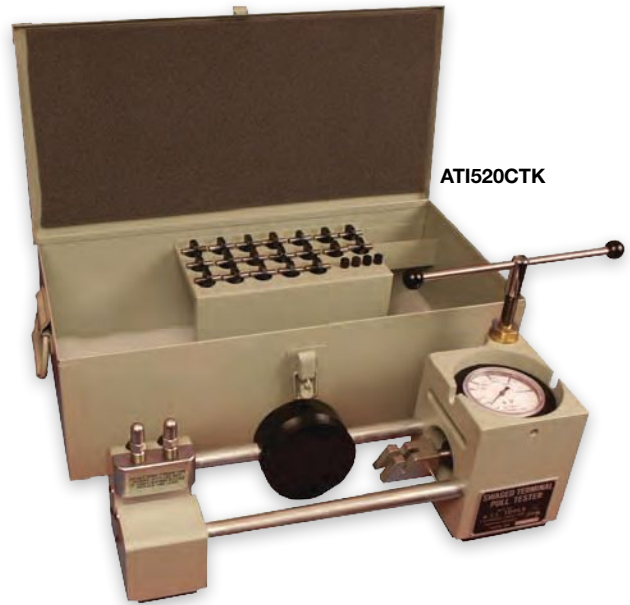
Pull Testers



ATI520CT

ATI520CT Pull Tester - Portable - Instrumentation Only.
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

During testing, the cable is held between two soft copper blocks which have been designed to avoid damage to the cable. The basic unit weighs 24 3/4 lbs., is 5 3/4" wide, 10 1/4" high and 23 1/8" length. Allows proof-loading of swaged terminals after the cable has been installed. Note: Must be used with optional ATI adaptors and jaws sold separately.



ATI520CTK

ATI520CTK Pull Tester Kit.
Kit includes ATI520CT self-contained hydraulic unit and all necessary pull tester hardware, adaptors and jaws required. Note: See ATI520CT for unit specifications. NSN #6635-00-864-3511



ATI520HTK

ATI520HTK Hydraulic Pull Tester Kit.
The ATI520HTK Hydraulic Pull Tester Kit, provides pull-test capabilities for all swaged terminal assemblies listed in this section.

Calibration Kit

ATI520CGC Pull Tester Calibration Kit.
This exclusive kit includes adaptors required to certify ATI Pull Tester Equipment part number ATI520CT. Quality assurance tool recognized by the Boeing Company. This instrument will eliminate the necessity of costly outside calibration service. NSN #4920-00-949-9409



ATI520CGC

Pull Tester Replacement Jaws



ATI520CTD2 Pull Tester Cable Jaws - 1/16".
Jaws are made of dead soft copper and will not damage the braided steel cable. Use in conjunction with ATI520CT Pull Tester.

ATI520CTD3 Pull Tester Cable Jaws - 3/32".
Jaws are made of dead soft copper and will not damage the braided steel cable. Use in conjunction with ATI520CT Pull Tester. NSN #5120-01-465-3706

ATI520CTD4 Pull Tester Cable Jaws - 1/8".
Jaws are made of dead soft copper and will not damage the braided steel cable. Use in conjunction with ATI520CT Pull Tester.

ATI520CTD3

ATI520CTD-5 Pull Tester Cable Jaws - 5/32".
Jaws are made of dead soft copper and will not damage the braided steel cable. Use in conjunction with ATI520CT Pull Tester.

ATI520CTD6 Pull Tester Cable Jaws - 3/16".
Jaws are made of dead soft copper and will not damage the braided steel cable. Use in conjunction with ATI520CT Pull Tester.

ATI520CTD-7 Pull Tester Cable Jaws - 7/32".
Jaws are made of dead soft copper and will not damage the braided steel cable. Use in conjunction with ATI520CT Pull Tester.

ATI520CTD-8 Pull Tester Cable Jaws - 1/4".
Jaws are made of dead soft copper and will not damage the braided steel cable. Use in conjunction with ATI520CT Pull Tester.



AT1437C



OUTSIDE BLADE
AT1437C-3

INSIDE BLADE
AT1437C-2

SQUARE BLADE
AT1437C-1

Carbide Deburring Blades

AT1437C Squaring and Deburring Blades. Used in conjunction with squaring and deburring heads, these blades perform on hydraulic tubing ends. Available in sets of three or individually. A set includes one outside, one inside and one squaring blade.



PRO360

Digital Protractor

PRO360 Digital Protractor.

The SPI-TRONIC PRO 360 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-degree range.

The PRO 360 features zero (alternate reference), a hold button to freeze displayed angle, simple calibration requiring no fixture and a one-year warranty.



ATISP1001

Turnbuckle Wrench

ATISP1001 Turnbuckle Tool - 12".

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



AT1560C

Mina-Vac Plastic Body

AT1560C Mina-Vac - Plastic Housing.

Plastic sub-assembly capable of pulling up to six inches of mercury. Flex and/or rigid extension tubes not included. Choose appropriate part number from the AT1560C family of extension tubes.



AT1560A

Mina-Vac Aluminum

AT1560A Mina-Vac - Aluminum Housing.

Aluminum sub-assembly capable of pulling over four inches of mercury. Flex and/or rigid extension tubes not included. Choose appropriate part number from the AT1560C family of extension tubes.

Note: Select Tubes on page 54.



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Mina-Vac Cast Aluminum

ATI560M Mina-Vac Power Unit Sub - Assembly - Aluminum Housing.
Powerful one-piece aluminum sub-assembly with larger venturi that pulls up to six inches of mercury. Removes objects such as sheet fasteners up to 3/4" diameter from confined spaces. NSN #7910-01-551-1384

ATI560MF12 Mina-Vac Air Vacuum With 12" Clear Flex Hose.
Powerful one-piece aluminum vacuum that pulls up to six inches of mercury with a 12" clear flex hose. Removes objects such as sheet fasteners up to 3/4" diameter from confined spaces.

ATI560MF18 Mina-Vac Air Vacuum With 18" Clear Flex Hose.
Powerful one-piece aluminum vacuum that pulls up to six inches of mercury with a 18" clear flex hose. Removes objects such as sheet fasteners up to 3/4" diameter from confined spaces. NSN #5130-01-368-5861

ATI560MF24 Mina-Vac Air Vacuum With 24" Clear Flex Hose.
Powerful one-piece aluminum vacuum that pulls up to six inches of mercury with a 24" clear flex hose. Removes objects such as sheet fasteners up to 3/4" diameter from confined spaces.

ATI560MR-12 Mina-Vac Air Vacuum With 12" Rigid PVC Tube.
Powerful one-piece aluminum vacuum that pulls up to six inches of mercury with a 12" rigid PVC tube. Removes objects such as sheet fasteners up to 3/4" diameter from confined spaces.



ATI560MF12

Mina-Vac Replacement Parts



ATI560HD3

Does not include
ATI560A-4 clip

ATI560HD3 Mina-Vac - Heavy Duty Replacement Bag.
Heavy-duty nylon reinforced replacement bag for all ATI Mina-Vac systems.



ATI560A-3

ATI560A-3 Mina-Vac - Replacement Bag.
Replacement bag only, made from canton flannel. Does not include the ATI560A-4 clip.



ATI560A-4

ATI560A-4 Mina-Vac-Replacement Clip For Bag.
Universal replacement clip only, does not include the Mina-Vac bag.

ATI560CF18



ATI560CF12 Mina-Vac - 12" Long Extension Flex Tube.
Clear PVC hose assembly for ATI560C and/or ATI560A Mina-Vac power unit sub-assembly.

ATI560CF18 Mina-Vac - 18" Long Extension Flex Tube.
Clear PVC hose assembly for ATI560C and/or ATI560A Mina-Vac power unit sub-assembly.

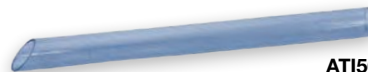
ATI560CF24 Mina-Vac - 24" Long Extension Flex Tube.
Clear PVC hose assembly for ATI560C and/or ATI560A Mina-Vac power unit sub-assembly.

ATI560CF36 Mina-Vac - 36" Long Extension Flex Tube.
Clear PVC hose assembly for ATI560C and/or ATI560A Mina-Vac power unit sub-assembly.



ATI560R10

ATI560R10 Mina-Vac - 12" Long Extension Gray Rigid Tube.
Rigid gray PVC hose assembly for ATI560C and/or ATI560A Mina-Vac power unit sub-assembly only. NSN #7910-01-227-4249



ATI560MRE12

ATI560MRE12 Mina-Vac - 12" Long Extension Clear Rigid Tube.
Rigid clear PVC hose assembly for ATI560M Mina-Vac power unit sub-assembly only.



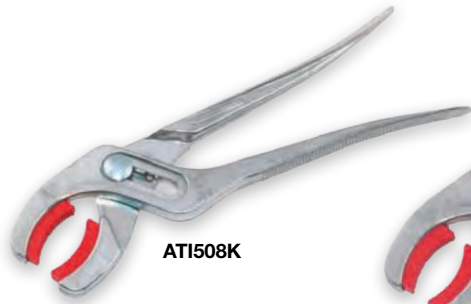
ATI560MFE18

ATI560MFE12 Mina-Vac - 12" Long Extension Clear Flexible Tube.
Flexible clear PVC hose assembly for ATI560M Mina-Vac power unit sub-assembly only.

ATI560MFE18 Mina-Vac - 18" Long Extension Clear Flexible Tube.
Flexible clear PVC hose assembly for ATI560M Mina-Vac power unit sub-assembly only.

ATI560MFE24 Mina-Vac - 24" Long Extension Clear Flexible Tube.
Flexible clear PVC hose assembly for ATI560M Mina-Vac power unit sub-assembly only.

Cannon Plug Pliers



ATI508K

ATI508K Cannon Plug Plier.

Slip-joint handles and serrated replaceable plastic jaws, make installation and removal of electric connectors easier and safer. NSN #5120-01-370-6693



ATI508KG

ATI508KG Cannon Plug Plier With Grips.

Slip-joint handles with grips and serrated replaceable plastic jaws, make installation and removal of electric connectors easier and safer.

Cannon Plug Pliers Replacement Parts



ATI508K-4

ATI508K-4 Cannon Plug Plier Pad Set.

Replaceable pads for ATI508K and ATI508KG. NSN #5120-00-157-3660

Speed Drivers – Deburring Tool & Cutters



ATI521A

ATI521A Deburring - Speed Driver.

The swivel handle allows for rapid deburring of drilled holes, uses the optional ATI521C deburring cutter.

ATI521B Threaded Spindle Deburring - Speed Driver.

The swivel handle allows for rapid deburring of drilled holes, has 1/4"-28 threaded spindle. Uses the ATI407 deburring cutter and ATI420, ATI445 and ATI455 family of cutters.

ATI407-4 Countersink - Hand Deburring.

100° cutting angle for hand deburring and countersinking. Use with ATI421B Speed Driver or any 1/4"-28" threaded drill attachment. NSN #5133-01-428-5671



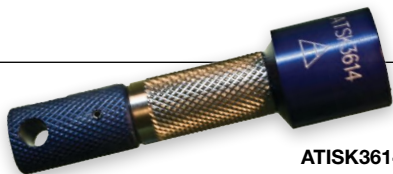
ATI407-4



ATI521C

ATI521C Deburring Cutter.

Used in ATI521A speed driver. 100-degree cutting angle, 3/8" body diameter, tip length 3/4", shank length 7/8", shank diameter 7/32".



ATISK3614

Valve Core Removal Tool

ATISK3614 Tire Valve Core Deflating Tool.

For rapid and safe tire deflation, this machined aluminum tool threads onto the valve stem, releases and traps the valve core within the tool and exhausts the tire air through ports, away from the technician, onto the wheel.



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Ratcheting Torque Wrench

These ratcheting torque wrenches are designed for use on fuel-, hydraulic- and oxygen-line tube 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 Tools.

INCH:

Order by **BASIC PART NUMBER - HEX SIZE IN 1/64 INCR - TORQUE REQUIREMENT IN-LBS**

Example: RTW44 - 50 = TORQUE WRENCH, 11/16 HEX, PRESET TO 50 IN-LBS

METRIC:

Order by **BASIC PART NUMBER - HEX SIZE IN MM - TORQUE REQUIREMENT IN-LBS**

Example: RTWM17 - 265 = TORQUE WRENCH, 17MM HEX, PRESET TO 265 IN-LBS
RTWM17 - 30N = TORQUE WRENCH, 17MM HEX, PRESET TO 30NM



FEATUIRES:

- 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



Optional Interchangeable Ratchet Heads
Available in both inch & metric hex sizes.

INCH:

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

Example: RTWH80J = INTERCHANGEABLE HEAD, 1 1/4" HEX, J SHANK ADAPTOR

METRIC:

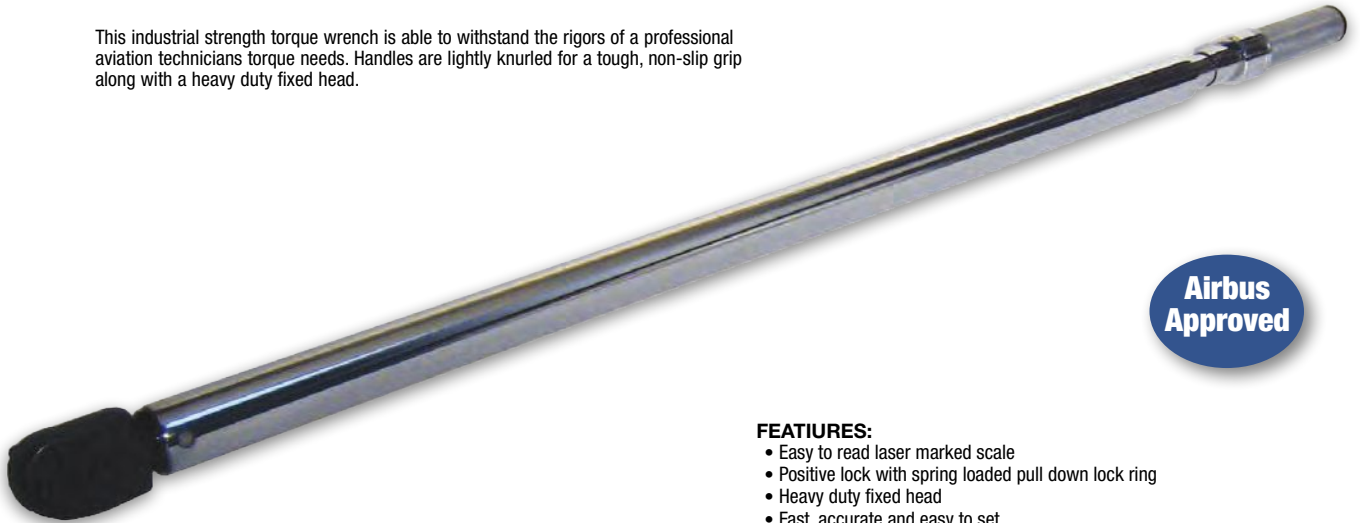
Order by **BASIC PART NUMBER - HEX SIZE IN MM - SHANK SIZE (J OR Y)**

Example: RTWHM16J = INTERCHANGEABLE HEAD, 16MM HEX, J SHANK ADAPTOR

DESIGNED AND MANUFACTURED IN COMPLIANCE WITH BOEING ST2599A SPECIFICATIONS

800 Newton Meter Fixed Head Torque Wrench

This industrial strength torque wrench is able to withstand the rigors of a professional aviation technicians torque needs. Handles are lightly knurled for a tough, non-slip grip along with a heavy duty fixed head.



**Airbus
Approved**

FEATIURES:

- Easy to read laser marked scale
- Positive lock with spring loaded pull down lock ring
- Heavy duty fixed head
- Fast, accurate and easy to set
- Accuracy +/- 3% clockwise direction, from 20-100% full scale
- Meets or exceeds ASME B107.14M-1994, ISO 6789 standards
- Individually serialized with matching certificate of calibration traceable to N.I.S.T.



Heavy Duty Fixed Head.

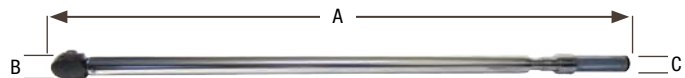
Specifications

8004NMMHSS-ST

| | |
|------------|------------|
| Range | 150-800 Nm |
| Sq. Drive | 3/4" |
| Increments | 0.5 |
| Weight | 11.00 lbs. |
| A | 37.00" |
| B | 2.50" |
| C | 1.40" |



Easy to read laser marked scale.



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Aluminum Hole Fabrication / Drill Attachments / Drilling Equipment

SIOUX PISTOL GRIP DRILLS

Powerful Tools for every application

Through next generation ergonomics and the continued focus on productivity and operator safety comes the development of the Sioux Tools Signature Series Drill line. Signature Series Drills are used in applications ranging from manufactured housing and wood working to light assembly. The powerful five vane motor makes these drills great for drilling applications that contain ferrous and non-ferrous metals, wood and composite materials. The Signature Series Drills offer great value with a 3 planet gear system for increased life and load capacity. The Signature Series Drill line touts an impressive runout of less than .005 inches 2-1/2" from the end of the chuck. The Sioux tools Signature Series Drill line reduces operator fatigue by offering a low sound level and low vibration solution! Operator comfort is achieved through the implementation of a light weight aluminum housing and a comfort grip. Drills are available in both reversing and non-reversing pistol grip and lever handle configurations.

Features:

- Available keyed or keyless chuck
- 3 planet gear system for increased life and load capacity
- Planetary gear reduction assembly can be serviced without removing the chuck
- Ring gear—machined into the motor retainer for ease of assembly and disassembly
- Rotor pinion is case hardened to resist wear
- Rotor, cylinder and endplates are interchangeable between different models. This reduces the number of spare parts tool cribs need to stock.
- Tipper valve and valve seat are easily accessible for service.
- Ball bearing construction throughout
- Precision machined steel motor
- Teasing throttle
- Cast aluminum handle with comfort Grip

ATIS6P26N3 Pistol Grip Non-Reversing Drill (0.6 HP) 2600 RPM 3/8" Capacity Drill Chuck.

ATIS10P26N3 Pistol Grip Non-Reversing Drill (1.0 HP) 2600 RPM 3/8" Capacity Drill Chuck.

ATIS10P7R4 Pistol Grip Reversing Drill (1.0 HP) 700 RPM 1/2" Capacity Drill Chuck.



ATIS6P26N3



ATIS10P26N3



ATIS10P7R4

SIOUX ANGLE DRILL

Features:

- Non-reversible
- Lever Start
- Rear Exhaust

ATIS1310AH 90 Degree Angle Drill (.75 HP) 3350 RPM 1/4"-28 Internal Threaded Spindle.

ATIS141045 45 Degree Angle Drill (.75 HP) 5800 RPM 1/4"-28 Internal Threaded Spindle.



ATIS1310AH



ATIS141045

SIOUX 'D'-HANDLE GRIP NON-REVERSING DRILL

Features:

- Non-reversible
- Trigger Start
- Side Exhaust
- Swivel Air Inlet

ATISDR1467 'D'-Handle Grip Non-Reversing Drill (1.0 HP) 375 RPM 1/2" Capacity Drill Chuck.



ATISDR1467

SIOUX MINIATURE THREADED MOTORS

Accepts industry standard 1/4"-28 threaded drill bits.

ATIS1AM1551 90 Degree Angle Drill (.33 HP) 2800 RPM 1/4"-28 Internal Threaded Spindle. "Sioux Miniature Threaded Motors".
ATIS1AM1541 45 Degree Angle Drill (.33 HP) 2800 RPM 1/4"-28 Internal Threaded Spindle. "Sioux Miniature Threaded Motors".

SIOUX PISTOL GRIP NON-REVERSING DRILLS
Features:

- Non-reversible
- Trigger start
- Rapid Reverse
- Comfort Grip

ATIS1410 Pistol Grip Non-Reversing Drill (.33 HP) 2600 RPM 1/4" Capacity Drill Chuck.
ATISDR1412 Pistol Grip Non-Reversing Drill (.33 HP) 3600 RPM 1/4" Capacity Drill Chuck.
ATISDR1414 Pistol Grip Non-Reversing Drill (.33 HP) 4300 RPM 1/4" Capacity Drill Chuck.
ATISDR1416 Pistol Grip Non-Reversing Drill (.33 HP) 6000 RPM 1/4" Capacity Drill Chuck.

WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Aluminum Preparation and Maintenance Tools / Sealant Removal

ATIS1141/51K SEALANT REMOVAL TOOL KIT

Sealant Removal at its Best... There is now a faster, safer, more effective way to remove aircraft sealants with minimal effect on paint, primer or aircraft metal. The new Sioux Aircraft Sealant Removal Tool runs at 800 RPM and is designed for use with the 3M™ SR Cutters. The 3M™ SR cutters included in the kit are a plastic rotary cutting tool with a 1/4 - 28 threaded steel mandrel. The cutters thread directly into the output spindle on the drills and are ideal for close quarters applications. The Sioux Aircraft Sealant Removal Kits will eliminate the need to use chemical solvents, which raise health, safety and environmental concerns and are messy to clean up.

ATIS1141/51K Sealant Removal Kit with Pneumatic Tool.



ATIS1141/51K

Riveting Tools and Accessories / Guns

SIoux PNEUMATIC RIVET GUNS

Features:

- Pistol Grip
- Teasing Throttle Trigger Start
- Accepts .401 Parker Taper Rivet Sets and Chisels

ATIS270A Pneumatic Rivet Guns .401" Shank.



ATIS270A

Aluminum Preparation and Maintenance Tools / Installation Tools

SIOUX SKIN CLAMP RUNNER

Ergonomically designed housing for operator comfort. Reversible at the touch of a button to permit quick removal or installation of hex nut style clecos. 9-1/8" long, weighs 2 lbs – 9 oz.

ATISSR9A25 Pistol Grip Reversible Hex Nut Fastener Installation and Removal Tool 2500 RPM "Skin Clamp Runner"



ATISSR9A25

Shop Tools and Accessories

SIOUX 0.33 HP – LEVER THROTTLE

Features:

- Lockoff Lever
- Built in Speed Control



ATIS1DS111

ATIS1DS111 Straight Grip Die Grinder (.33 HP) 25,000 RPM 1/4" Collet Size.

ATISDA221HP 90 degree Die Grinder (.33 HP) 25,000 RPM 1/4" Collet Size.



ATISDA221HP

SIOUX CUTOFF TOOL (1.0 HP)

Features:

- Aluminum housing with glass filled nylon cover
- Lockoff lever
- Ergonomic handle with soft textured grip
- 3 idler gear system for increased life and load capacity
- Ball bearing construction
- Built-in air regulator
- Fine wire mesh inlet screen
- Steel inlet bushing
- Heavy duty three piece double tapered collet
- Front exhaust

ATIS10S253F Straight Grip Abrasive Cutoff Tool (1.0 HP) 25,000 RPM.



ATIS10S253F

SIOUX SHEAR

ATIS1446ES Pistol Grip Nibbler Type Shear (.90 HP).



ATIS1446ES



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Aluminum Hole Fabrication/Drill Attachments

ATI301B 45° Angle Drill Attachment.

ATI314BS Flat Angle Drill, Chain Drive.

ATI315BL Flat Angle Drill Chain Drive.

ATI315BS Offset Angle Drill, Chain Drive.

ATI316BS Flat Angle, Chain Drive, Short.

ATI326A Angle Drill Attachment.

90 degree fixed head, #10-32 female threaded spindle.

ATI336B Angle Drill.

ATI339B Angle Drill 360° Flex Drive.

360 degree swivel head, 1/4-28 female threaded spindle, 30" flex shaft.

ATI413-1 Hole Saw-Fine Tooth - 3/8".

3/8" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI41310 Hole Saw-Fine Tooth - 15/16".

15/16" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI41310X Hole Saw-Fine Tooth - 31/32".

31/32" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI413-12 Hole Saw-Fine Tooth - 1-1/16".

1-1/16" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI413-13 Hole Saw-Fine Tooth - 1-1/8".

1-1/8" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI413-14 Hole Saw-Fine Tooth - 1-3/16".

1-3/16" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI413-15 Hole Saw-Fine Tooth - 1-1/4".

1-1/4" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI413-17 Hole Saw-Fine Tooth - 1-3/8".

1-3/8" Cutting diameter, 1/2"-20 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-2 or ATI415-3 Arbor.

ATI41319 Hole Saw-Fine Tooth - 1-1/2".

1-1/2" Cutting diameter, 1/2"-20 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-2 or ATI415-3 Arbor.

ATI41323 Hole Saw-Fine Tooth - 3/4".

3/4" Cutting diameter, 1/2"-20 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-2 or ATI415-3 Arbor.

ATI41324 Hole Saw-Fine Tooth - 1-13/16".

1-13/16" Cutting diameter, 1/2"-20 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-2 or ATI415-3 Arbor.

ATI4132X Hole Saw-Fine Tooth - 15/32".

15/32" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI413-3 Hole Saw-Fine Tooth - 1/2".

1/2" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI41330 Hole Saw-Fine Tooth - 2-3/16".

2-3/16" Cutting diameter, 1/2"-20 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-2 or ATI415-3 Arbor.

ATI413-31 Hole Saw-Fine Tooth - 2-1/4".

2-1/4" Cutting diameter, 1/2"-20 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-2 or ATI415-3 Arbor.

ATI413-4 Hole Saw-Fine Tooth - 9/16".

9/16" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI413-5 Hole Saw-Fine Tooth - 5/8".

5/8" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI41356 Hole Saw-Fine Tooth - 3-13/16".

3-13/16" Cutting diameter, 1/2"-20 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-2 or ATI415-3 Arbor.

ATI4135X Hole Saw-Fine Tooth - 21/32".

21/32" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI4136 Hole Saw-Fine Tooth - 11/16".

11/16" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI413-7 Hole Saw-Fine Tooth - 3/4".

3/4" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI4137X Hole Saw-Fine Tooth - 25/32".

25/32" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI413-8 Hole Saw-Fine Tooth - 13/16".

13/16" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI413-9 Hole Saw-Fine Tooth - 7/8".

7/8" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI4139X Hole Saw-Fine Tooth - 29/32".

29/32" Cutting diameter, 5/16"-24 threaded arbor hole for cutting thin aluminum skins and corrugation sheets. Use ATI415-0 or ATI415-1 Arbor.

ATI474-1 Hole Saw - Coarse Tooth - 3/8".

3/8" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-0 or ATI415-1 Arbor.

ATI474-10 Hole Saw - Coarse Tooth - 15/16".

15/16" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-0 or ATI415-1 Arbor.

ATI47411X Hole Saw-Coarse Tooth - 1-1/32".

1-1/32" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-0 or ATI415-1 Arbor.

ATI474-12 Hole Saw-Coarse Tooth - 1-1/16".

1-1/16" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-0 or ATI415-1 Arbor.

ATI47412X Hole Saw-Coarse Tooth - 1-3/32".

1-3/32" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-0 or ATI415-1 Arbor.

ATI474-14 Hole Saw-Coarse Tooth - 1-3/16".

1-3/16" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-0 or ATI415-1 Arbor.

ATI47414X Hole Saw-Coarse Tooth - 1-7/32".

1-7/32" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-0 or ATI415-1 Arbor.

ATI47415X Hole Saw-Coarse Tooth - 1-9/32".

1-9/32" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-0 or ATI415-1 Arbor.

ATI474-16 Hole Saw-Coarse Tooth - 1-5/16".

1-5/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI47416X Hole Saw-Coarse Tooth - 1-11/32".

1-11/32" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI47420X Hole Saw-Coarse Tooth - 1-19/32".

1-19/32" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI47421X Hole Saw - Deep Tooth - 1-21/32".

1-21/32" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI47422X Hole Saw-Coarse Tooth - 1-23/32".

1-23/32" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI47423X Hole Saw-Coarse Tooth - 1-25/32".

1-25/32" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI474-24 Hole Saw-Coarse Tooth - 1-13/16".

1-13/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI474-25X Hole Saw-Coarse Tooth - 1-29/32".

1-29/32" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI474-2X Hole Saw-Coarse Tooth - 15/32".

15/32" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-0 or ATI415-1 Arbor.

ATI474-30 Hole Saw-Coarse Tooth - 2-3/16".

2-3/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI474-31X Hole Saw-Coarse Tooth - 2-9/32".

2-9/32" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI47434 Hole Saw-Coarse Tooth - 2-7/16".

2-7/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI47436 Deep Hole Saw-Coarse Tooth - 2-9/16".

2-9/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI474-36X Hole Saw-Coarse Tooth - 2-19/32".

2-19/32" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI47437 Hole Saw-Coarse Tooth - 2-5/8".

2-5/8" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI4743X Hole Saw-Coarse Tooth - 1/2".

1/2" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-0 or ATI415-1 Arbor.

ATI474-43 Hole Saw-Coarse Tooth - 3".

3" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI47444 Hole Saw-Coarse Tooth - 3-1/16".

3-1/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI47445 Hole Saw-Coarse Tooth - 3-1/8".

3-1/8" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI47445X Hole Saw-Coarse Tooth - 3-5/32".

3-5/32" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI47446 Hole Saw-Coarse Tooth - 3-3/16".

3-3/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI474-47 Hole Saw-Coarse Tooth - 3-1/4".

3-1/4" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI47449 Hole Saw-Coarse Tooth - 3-3/8".

3-3/8" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI474-4X Hole Saw-Coarse Tooth - 19/32".

19/32" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-0 or ATI415-1 Arbor.

ATI47454 Hole Saw-Coarse Tooth - 3-11/16".

3-11/16" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI474-59 Hole Saw-Coarse Tooth - 4".

4" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI474-5X Hole Saw-Coarse Tooth - 21/32".

21/32" Cutting diameter, 1/2"-20 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-2 or ATI415-3 Arbor.

ATI4746X Hole Saw-Coarse Tooth - 23/32".

23/32" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-0 or ATI415-1 Arbor.

ATI474-8X Hole Saw-Coarse Tooth - 27/32".

27/32" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-0 or ATI415-1 Arbor.

ATI4749X Hole Saw-Coarse Tooth - 29/32".

29/32" Cutting diameter, 5/16"-24 threaded arbor hole. Used for fast and effective cutting of Aluminum and Steel. Use ATI415-0 or ATI415-1 Arbor.

ATI518AD Drill Jig.
ATI518F Drill Jig.
ATI518HO Drill Jig.
ATI518KN Drill Jig.
ATI518L Drill Jig.
ATI518M Drill Jig.
ATI518N Drill Jig.
ATI518NASDA8 Drill Jig.
ATI518NASDA5 Drill Jig.
ATI518NJ Drill Jig.
ATI518PA Drill Jig.
ATI518RF Drill Jig.
ATI518RP Drill Jig.
ATI518S Drill Jig.
ATI518SA Drill Jig.
ATI518SB Drill Jig.
ATI518TB Drill Jig.
ATI589CB2812 Threaded Drill Bushing - 9/32".

Interchangeable threaded drill bushing used with ATI589CA drill guide housing.

ATI589CB3437 Threaded Drill Bushing - 11/32".

Interchangeable threaded drill bushing used with ATI589CA drill guide housing.

ATI589CB4375 Threaded Drill Bushing - 7/16".

Interchangeable threaded drill bushing used with ATI589CA drill guide housing.

ATI589CB500 Threaded Drill Bushing - 1/2".

Interchangeable threaded drill bushing used with ATI589CA drill guide housing.


WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



Hole Duplication

ATI507-5 Duplicating Punch - 5/32".

3 1/2" overall length. Manufactured from heat treated oil hardened drill rod (OHDR).

ATI507-6 Duplicating Punch - #19.

3 1/2" overall length. Manufactured from heat treated oil hardened drill rod (OHDR).

ATI507-7 Duplicating Punch - 3/16".

3 1/2" overall length. Manufactured from heat treated oil hardened drill rod (OHDR).

ATI507-8 Duplicating Punch - #10.

3 1/2" overall length. Manufactured from heat treated oil hardened drill rod (OHDR).

ATI507-9 Duplicating Punch - 7/32".

3 1/2" overall length. Manufactured from heat treated oil hardened drill rod (OHDR).

ATI507-12 Duplicating Punch - 3/8".

3 1/2" overall length. Manufactured from heat treated oil hardened drill rod (OHDR).

ATI507-13 Duplicating Punch - 7/16".

3 1/2" overall length. Manufactured from heat treated oil hardened drill rod (OHDR).

ATI507-14 Duplicating Punch - 1/2".

3 1/2" overall length. Manufactured from heat treated oil hardened drill rod (OHDR).

ATI500-51 Strap Duplicator - Punch Type - #40 Pilot.

6 1/4" working length, made from high grade spring steel. Center punches sheet from hidden pilot hole.

ATI532-64 Strap Duplicator - Bushing Type - #19 Pilot / #19 Bushing.

6 1/4" working length made from high grade spring steel. Bushing type for drilling duplicate holes in overlapping sheets.

ATI532A-68 Strap Duplicator - Inverted Pilot Bushing Type - 1/4" Pilot / 1/4" Bushing.

6 1/4" working length made from high grade spring steel. Similar as bushing type but has an inverted pilot.

ATI532D-63 Strap Duplicator - Inverted Pilot Bushing Type - #21 Pilot / #21 Bushing.

13 1/4" working length made from high grade spring steel. Similar as bushing type but has an inverted pilot.

ATI532D-65 Strap Duplicator - Inverted Pilot Bushing Type - #10 Pilot / #10 Bushing.

13 1/4" working length made from high grade spring steel. Similar as bushing type but has an inverted pilot.

ATI532D-68 Strap Duplicator - Inverted Pilot Bushing Type - 1/4" Pilot / 1/4" Bushing.

13 1/4" working length made from high grade spring steel. Similar as bushing type but has an inverted pilot.

Microstops/Countersinks/ Counterbores/Back Countersinks & Spotfacers

ATI2200CSK Elliptical Countersink Kit.

Kit provides countersinking capabilities for the installation of the NAS1734 or 1735 elliptical head blind nuts, for fasteners -3 (#10) thru -8 (1/2"). Hole preparation in accordance with NAS1736. The cutters and rockers are driven by common hand-held drill motors.

Kit includes the following Microstops, stabilizing rockers and cobalt cutters:

ATISK2260 - Microstop with Wobble Skirt and Arm Assembly. Accommodates fastener sizes #10, 1/4" and 5/16".

ATISK2266 - Jumbo Microstop with Wobble Skirt and Arm Assembly. Accommodates fastener sizes 3/8", 7/16" and 1/2". (Note: 7/16" and 1/2" countersink assemblies are not included).

C15374-3 - Elliptical Countersink Assembly, #10.

C15374-4 - Elliptical Countersink Assembly, 1/4".

C15374-5 - Elliptical Countersink Assembly, 5/16".

C15374-6 - Elliptical Countersink Assembly, 3/8".

ATI402A-4 Back Countersink - 1/4" OD.

1/4" Body Diameter, 1/8" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-2 Pilot.

ATI402D-4 Back Countersink - 5/16" OD.

5/16" Body Diameter, 5/32" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-3 Pilot.

ATI402E-4 Back Countersink - 3/8" OD.

3/8" Body Diameter, 3/16" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-4 Pilot.

ATI402G-4 Back Countersink - 7/16" OD.

7/16" Body Diameter, 3/16" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-4 Pilot.

ATI402H-4 Back Countersink - 7/16" OD.

7/16" Body Diameter, 5/32" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-3 Pilot.

ATI402J-4 Back Countersink - 1/2" OD.

1/2" Body Diameter, 1/4" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-5 Pilot.

ATI402K-4 Back Countersink - 9/16" OD.

9/16" Body Diameter, 3/16" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-4 Pilot.

ATI402L-4 Back Countersink - 9/16" OD.

9/16" Body Diameter, 1/4" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-5 Pilot.

ATI402N-4 Back Countersink - 5/8" OD.

5/8" Body Diameter, 5/16" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-6 Pilot.

ATI402O-4 Back Countersink - 11/16" OD.

11/16" Body Diameter, 1/4" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-5 Pilot.

ATI402P-4 Back Countersink - 11/16" OD.

11/16" Body Diameter, 5/16" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-6 Pilot.

ATI402Q-4 Back Countersink - 3/4" OD.

3/4" Body Diameter, 1/4" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-5 Pilot.

ATI402R-4 Back Countersink - 3/4" OD.

3/4" Body Diameter, 5/16" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-6 Pilot.

ATI402S-4 Back Countersink - 7/8" OD.

7/8" Body Diameter, 5/16" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-6 Pilot.

ATI402T-4 Back Countersink - 7/8" OD.

7/8" Body Diameter, 3/8" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-7 Pilot.

ATI402U-4 Back Countersink - 1" OD.

1" Body Diameter, 5/16" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-6 Pilot.

ATI402V-4 Back Countersink - 1" OD.

1" Body Diameter, 3/8" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-7 Pilot.

ATI402W-4 Back Countersink - 1-1/4" OD.

1-1/4" Body Diameter, 3/8" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-7 Pilot.

ATI402X-4 Back Countersink - 1-1/4" OD.

1-1/4" Body Diameter, 1/2" Pilot Hole, 4 Flute, 100° Cutting Angle for use in restricted areas when direct countersinking is not possible. Use ATI404-8 Pilot.

ATI403B Back Spotfacer - 1/4" OD.

1/4" Body Diameter, 1/8" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-2 Pilot.

ATI403E Back Spotfacer - 3/8" OD.

3/8" Body Diameter, 3/16" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-4 Pilot.

ATI403H Back Spotfacer - 7/16" OD.

7/16" Body Diameter, 5/32" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-3 Pilot.

ATI403J Back Spotfacer - 1/2" OD.

1/2" Body Diameter, 1/4" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-5 Pilot.

ATI403L Back Spotfacer - 9/16" OD.

9/16" Body Diameter, 1/4" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-5 Pilot.

ATI403N Back Spotfacer - 5/8" OD.

5/8" Body Diameter, 5/16" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-6 Pilot.

ATI4030 Back Spotfacer - 11/16" OD.
 11/16" Body Diameter, 1/4" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-5 Pilot.

ATI403P Back Spotfacer - 11/16" OD.
 11/16" Body Diameter, 5/16" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-6 Pilot.

ATI403S Back Spotfacer - 7/8" OD.
 7/8" Body Diameter, 5/16" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-6 Pilot.

ATI403T Back Spotfacer - 7/8" OD.
 7/8" Body Diameter, 3/8" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-7 Pilot.

ATI403U Back Spotfacer - 1" OD.
 1" Body Diameter, 5/16" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-6 Pilot.

ATI403V Back Spotfacer - 1" OD.
 1" Body Diameter, 3/8" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-7 Pilot.

ATI403W Back Spotfacer - 1-1/4" OD.
 1-1/4" Body Diameter, 3/8" Pilot Hole, 4 Flute, 100° Cutting Angle, .03 Corner Radius for reverse spotfacing and counterboring in confined areas. Use ATI404-7 Pilot.

ATI404-7 3/8" Back Spotfacer Pilot.
 3/8" diameter, 6" overall length, Bayonet Lock.

ATI408E-2 Countersink-Straight Shank - 1/2".
 1/4" Shank Diameter, 1/2" Body Diameter, 82° Cutting Angle, 3 Straight Flutes accurately sharpened to permit high speed cutting without chatter.

ATI408F-4 Countersink Cutter - 5/8".
 3/8" Shank Diameter, 5/8" Body Diameter, 100° Cutting Angle, 3 Straight Flutes accurately sharpened to permit high speed cutting without chatter.

ATI408GC6F4 Countersink, 6 Flt 100° - 5/8".
 3/8" Shank Diameter, 5/8" Body Diameter, 100° Cutting Angle, 6 Straight Flutes accurately sharpened to permit high speed cutting without chatter.

ATI408KE6F0 Countersink, 6 Flt 60° - 1", 1/2"
 Shank Diameter, 1" Body Diameter, 60° Cutting Angle, 6 Straight Flutes accurately sharpened permit high speed cutting without chatter.

ATI409-1/8 Countersink Assembly (3 piece)- 1/2" Body, 100 degree - 1/8" pilot - 1/4" shank.
 Assembly consists of ATI418E-4 cutter, ATI416-57 pilot and ATI409-1 shank.

ATI409-3/32 Countersink Assembly (3 piece)- 1/2" Body, 100 degree - 3/32" pilot - 1/4" shank.
 Assembly consists of ATI418E-4 cutter, ATI416-56 pilot and ATI409-1 shank.

ATI409-5/32 Countersink Assembly (3 piece)- 1/2" Body, 100 degree - 5/32" pilot - 1/4" shank.
 Assembly consists of ATI418E-4 cutter, ATI416-59 pilot and ATI409-1 shank.

ATI4101 Detail, 3/8" diameter- straight shank.
 Shank detail used in the ATI410 and ATI412 family of countersink assemblies.

ATI411B18 Spotfacer Assembly (3 piece)- 7/16" body - 1/8" pilot - 1/4" shank.
 Assembly consists of ATI421-2 spotfacer, ATI416-57 pilot and ATI409-1 shank.

ATI411B316 Spotfacer Assembly (3 piece)- 7/16" body - 3/16" pilot - 1/4" shank.
 Assembly consist of ATI421-2 spotfacer, ATI416-61 pilot and ATI409-1 shank.

ATI411B532 Spotfacer Assembly (3 piece)- 7/16" body - 5/32" pilot - 1/4" shank.
 Assembly consist of ATI421-2 spotfacer, ATI416-59 pilot and ATI409-1 shank.

ATI411C10 Spotfacer Assembly (3 piece)- 1/2" body - #10 pilot - 1/4" shank.
 Assembly consist of ATI421-3 spotfacer, ATI416-32 pilot and ATI409-1 shank.

ATI411C14 Spotfacer Assembly (3 piece)- 1/2" body - 1/4" pilot - 1/4" shank.
 Assembly consist of ATI421-3 spotfacer, ATI416-65 pilot and ATI409-1 shank.

ATI411C316 Spotfacer Assembly (3 piece)- 1/2" body - 3/16" pilot - 1/4" shank.
 Assembly consist of ATI421-3 spotfacer, ATI416-61 pilot and ATI409-1 shank.

ATI411C-5/32 Spotfacer Assembly (3 piece)- 1/2" body - 5/32" pilot - 1/4" shank.
 Assembly consist of ATI421-3 spotfacer, ATI416-59 pilot and ATI409-1 shank.

ATI411D18 Spotfacer Assembly (3 piece)- 9/16" body - 1/8" pilot - 1/4" shank.
 Assembly consist of ATI421-4 spotfacer, ATI416-57 pilot and ATI409-1 shank.

ATI411D316 Spotfacer Assembly (3 piece)- 9/16" body - 3/16" pilot - 1/4" shank.
 Assembly consist of ATI421-4 spotfacer, ATI416-61 pilot and ATI409-1 shank.

ATI411E-3/16 Spotfacer Assembly (3 piece)- 5/8" body - 3/16" pilot - 1/4" shank.
 Assembly consist of ATI421-5 spotfacer, ATI416-61 pilot and ATI409-1 shank.

ATI412B38 Spotfacer Assembly (3 piece)- 7/8" body - 3/8" pilot - 3/8" shank.
 Assembly consist of ATI422-2 spotfacer, ATI417-3/8 pilot and ATI410-1 shank.

ATI416-12 Pilot, Countersink - #30 Pilot Diameter.
 .086 Shank Diameter. Designed to fit ATI418 Cutter and ATI421 Spotfacer with ground head diameter held to .0005" tolerance.

ATI416-2 Pilot, Countersink - #40 Pilot Diameter.
 .086 Shank Diameter. Designed to fit ATI418 Cutter and ATI421 Spotfacer with ground head diameter held to .0005" tolerance.

ATI416-21 Pilot, Countersink - #21 Pilot Diameter.
 .086 Shank Diameter. Designed to fit ATI418 Cutter and ATI421 Spotfacer with ground head diameter held to .0005" tolerance.

ATI416-31 Pilot, Countersink - #11 Pilot Diameter.
 .086 Shank Diameter. Designed to fit ATI418 Cutter and ATI421 Spotfacer with ground head diameter held to .0005" tolerance.

ATI416-32 Pilot, Countersink - #10 Pilot Diameter.
 .086 Shank Diameter. Designed to fit ATI418 Cutter and ATI421 Spotfacer with ground head diameter held to .0005" tolerance.

ATI416-56 Pilot, Countersink - 3/32" Pilot Diameter.
 .086 Shank Diameter. Designed to fit ATI418 Cutter and ATI421 Spotfacer with ground head diameter held to .0005" tolerance.

ATI416-63 Pilot, Countersink - 7/32" Pilot Diameter.
 .086 Shank Diameter. Designed to fit ATI418 Cutter and ATI421 Spotfacer with ground head diameter held to .0005" tolerance.

ATI416-69 Pilot, Countersink - 5/16" Pilot Diameter.
 .086 Shank Diameter. Designed to fit ATI418 Cutter and ATI421 Spotfacer with ground head diameter held to .0005" tolerance.

ATI417-1/4 Pilot, Countersink - 1/4" Pilot Diameter.
 .170 Shank Diameter. Designed to fit ATI419 Cutter and ATI422 Spotfacer with ground head diameter held to .0005" tolerance.

ATI417-3/16 Pilot, Countersink - 3/16" Pilot Diameter.
 .170 Shank Diameter. Designed to fit ATI419 Cutter and ATI422 Spotfacer with ground head diameter held to .0005" tolerance.

ATI417-3/8 Pilot, Countersink - 3/8" Pilot Diameter.
 .170 Shank Diameter. Designed to fit ATI419 Cutter and ATI422 Spotfacer with ground head diameter held to .0005" tolerance.

ATI417-5/16 Pilot, Countersink - 5/16" Pilot Diameter.
 .170 Shank Diameter. Designed to fit ATI419 Cutter and ATI422 Spotfacer with ground head diameter held to .0005" tolerance.

ATI418A-4 Replaceable Pilot Cutter.
 1/4" Body Diameter, Three 100° Cutting Flutes, Female Thread and a .086 Pilot Hole. These cutters are designed to be used with an ATI416-Series Pilot.

ATI418C-4 Replaceable Pilot Cutter.
 3/8" Body Diameter, Three Straight Flutes, 100°, Female Thread and a .086 Pilot Hole. These cutters are designed to be used with an ATI416-Series Pilot.

ATI418D-4 Replaceable Pilot Cutter.
 7/16" Body Diameter, Three Straight Flutes, 100°, Female Thread and a .086 Pilot Hole. These cutters are designed to be used with an ATI416-Series Pilot.

ATI418E4 Replaceable Pilot Cutter.
 1/2" Body Diameter, Three Straight Flutes, 100°, Female Thread and a .086 Pilot Hole. These cutters are designed to be used with an ATI416-Series Pilot.

ATI418F4 Replaceable Pilot Cutter.
 9/16" Body Diameter, Three Straight Flutes, 100°, Female Thread and a .086 Pilot Hole. These cutters are designed to be used with an ATI416-Series Pilot.


WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



ATI418G4 Replaceable Pilot Cutter.

5/8" Body Diameter, Three Straight Flutes, 100°, Female Thread and a .086 Pilot Hole. These cutters are designed to be used with an ATI416-Series Pilot.

ATI419J4 Cutter - 7/8" body diameter.

.170 pilot hole, 3/8"-24 internal threads. Use ATI417-series pilots.

ATI420D-5PC Countersink Set-HSS 7/16" OD.

Includes threaded anodized aluminum holder, Five Countersink cutters, Three Flutes, 100°, Includes sizes: ATI420D-4 3/32, 1/8, 5/32, 3/16, and 1/4.

ATI420D-9PC Countersink Set-HSS 7/16" OD.

Includes threaded anodized aluminum holder, Nine Countersink cutters, Three Flutes, 100°, Includes sizes: ATI420D-4 1/4, 3/16, 5/32, 1/8, 3/32, #21, #10, #30, and #40.

ATI4211 Spotfacer Cutter - 3/8" Body Diameter.

.086 Pilot Hole, 1/4"-28 Internal Threads. Use ATI416-Series Pilot.

ATI421-2 Spotfacer Cutter - 7/16" Body Diameter.

.086 Pilot Hole, Four Flutes, .03 Corner Radius, 1/4"-28 Internal Threads. Use ATI416-Series Pilot.

ATI4213 Spotfacer Cutter - 1/2" Body Diameter.

.086 Pilot Hole, Four Flutes, .03 Corner Radius, 1/4"-28 Internal Threads. Use ATI416-Series Pilot.

ATI421-4 Spotfacer Cutter - 9/16" Body Diameter.

.086 Pilot Hole, Four Flutes, .03 Corner Radius, 1/4"-28 Internal Threads. Use ATI416-Series Pilot.

ATI4215 Spotfacer Cutter - 5/8" Body Diameter.

.086 Pilot Hole, Four Flutes, .03 Corner Radius, 1/4"-28 Internal Threads. Use ATI416-Series Pilot.

ATI421-6 Spotfacer Cutter - 11/16" Body Diameter.

.086 Pilot Hole, Four Flutes, .03 Corner Radius, 1/4"-28 Internal Threads. Use ATI416-Series Pilot.

ATI4221 Spotfacer Cutter - 3/4" Body Diameter.

.170 Pilot Hole, Four Flutes, .03 Corner Radius, 3/8"-24 Internal Threads. Use ATI417-Series Pilots.

ATI4222 Spotfacer Cutter - 7/8" Body Diameter.

.170 Pilot Hole, 4 Flutes, .03 Corner Radius, 3/8"-24 Internal Threads. Use ATI417-Series Pilots.

ATI432A Jumbo Micro Stop 7/16" - 20 female threaded shaft.

7" overall length, With a 1-1/4" cutter capacity. Designed for production countersinking large size rivet and screw holes. It has a solid one piece shaft that is supported by two oilite bearings, and depth control is maintained by a thrust ball bearing. Hand adjustable in increments of .001 with a lock collar.

ATI435-1/2 Pilot.

.170 Shank Diameter with Flat for Set Screw. Designed to be used with ATI455-Series Cutters.

ATI435-1/4 Pilot.

.170 Shank Diameter with Flat for Set Screw. Designed to be used with ATI455-Series Cutters.

ATI435-3/16 Pilot.

.170 Shank Diameter with Flat for Set Screw. Designed to be used with ATI455-Series Cutters.

ATI440A-1X Microstop Skirt.

These skirts were designed to interchange Phenolic, Steel, or Nylon inserts to accommodate various surfaces and material finishes. 9/16" max. Cutter Diameter.

ATI441HSA9 Microstop.

Needle bearings, with ATI440A-1X skirt and hard chrome nose piece.

ATI441HSBA13 Microstop.

Ball bearings, with ATI440A-1X skirt and nylon nose piece.

ATI441HSBB Microstop.

Ball bearings, with ATI440LB-1X Two-legged skirt.

ATI441HSD Microstop Countersink.

Needle bearings, with ATI440LD-1X skirt.

ATI441HSE Microstop Countersink.

Needle bearings, with ATI440LE-1X skirt.

ATI445CE5PC Integral Countersink Set Carbide Tipped - 1/2" OD.

Includes threaded anodized aluminum holder, 5 Carbide Tipped Countersink cutters, 100°, Two flutes. Includes sizes: ATI445CTE-4 3/32", 1/8", 5/32", 3/16", and 1/4".

ATI445CTG414 Integral Carbide Tipped Countersink Cutter.

5/8" body diameter, 1/4" Integral pilot, 100°, Two Flutes, 1/4-28 Male Thread. Designed to be used with ATI441-series Microstops.

ATI445CG4516 Integral Carbide Tipped Countersink Cutter.

5/8" body diameter, 5/16" Integral pilot, 100°, Two Flutes, 1/4-28 Male Thread. Designed to be used with ATI441-series Microstops.

ATI445E-5PC Countersink Set-HSS - 1/2" OD.

Includes threaded anodized aluminum holder, Five Countersink cutters, 100°, Two Flutes. Includes sizes: ATI445E-4 3/32", 1/8", 5/32", 3/16", and 1/4".

ATI445E9BL Countersink Holder.

Anodized aluminum display bar holds threaded countersink bits with body diameters of 7/16" or 1/2".

ATI445E-9PC Countersink Set-HSS 1/2" OD.

Includes threaded anodized aluminum holder, Nine Countersink cutters, 100°, Two Flutes. Includes sizes: ATI445E-4 3/32", 1/8", 5/32", 3/16", and 1/4", #10, #21, #30, and #40.

ATI445CTG-4 Carbide Tipped Countersink.

5/8" body diameter, .125 Pilot Hole, 100°, Two Flutes. Use ATI485-Series Pilots.

ATI455PDG4 Polycrystalline Diamond Countersink Cutter - 5/8" Body Diameter.

.125 Pilot Hole. These are for use on Composites, Graphite Epoxy, and non-Ferrous materials. Use ATI485-Series Pilots.

ATI462H3-1.5 Jumbo Microstop.

3/8-24 Female Threaded Shaft, 1.5 ID skirt, 1-3/8" Cutter Capacity. Stop adjustment in .0005 increments.

ATI462H7-1.5 Jumbo Microstop.

7/16-20 Female Threaded Shaft, 1.5 ID skirt, 1-3/8" Cutter Capacity. Stop adjustment in .0005 increments.

ATI463145065 Chatterless Countersink Cutter.

.145 body diameter, .065 pilot diameter for 1/16" AN426 Rivet, M42 material.

ATI463210096 Chatterless Countersink Cutter.

.210 body diameter, .096 pilot diameter for 3/32" AN426 Rivet, M42 material.

ATI463256126 Chatterless Countersink Cutter.

.256 body diameter, .1265 pilot diameter for 1/8" AN426 Rivet, M42 material.

ATI463317157 Chatterless Countersink Cutter.

.317 body diameter, .157 pilot diameter for 5/32" AN426 Rivet, M42 material.

ATI463385191 Chatterless Countersink Cutter.

.385 body diameter, .1915 pilot diameter for 3/16" AN426 Rivet, M42 material.

ATI463507247 Chatterless Countersink Cutter.

.507 body diameter, .247 pilot diameter for 1/4" AN426 Rivet, M42 material.

ATI463595309 Chatterless Countersink Cutter.

.595 body diameter, .309 pilot diameter for 5/16" AN426 Rivet, M42 material.

ATI484-31 Pilot - #11.

.086 Shank Diameter with Flat for Set Screw. #11 Pilot Diameter. Use with ATI455-Series Countersink Cutters.

ATI484-32 Pilot - #10.

.086 Shank Diameter with Flat for Set Screw. #10 Pilot Diameter. Use with ATI455-Series Countersink Cutters.

ATI488C-0 Counterbore - 3/16".

3/16" Body Diameter, 3/32" Pilot Hole, 1/4" Shank Diameter. Use ATI489-Series Pilots.

ATI488C-14 Counterbore - 21/32".

21/32" Body Diameter, 3/16" Pilot Hole, 1/4" Shank Diameter. Use ATI489-Series Pilots.

ATI488C-16 Counterbore - 23/32".

23/32" Body Diameter, 3/16" Pilot Hole, 1/4" Shank Diameter. Use ATI489-Series Pilots.

ATI488C-18 Counterbore - 25/32".

25/32" Body Diameter, 3/16" Pilot Hole, 1/4" Shank Diameter. Use ATI489-Series Pilots.

ATI488C-2 Counterbore - 9/32".

9/32" Body Diameter, 3/32" Pilot Hole, 1/4" Shank Diameter. Use ATI489-Series Pilots.

ATI488C-20 Counterbore - 27/32".

27/32" Body Diameter, 3/16" Pilot Hole, 1/4" Shank Diameter. Use ATI489-Series Pilots.

ATI488C-22 Counterbore - 29/32".

29/32" Body Diameter, 3/16" Pilot Hole, 1/4" Shank Diameter. Use ATI489-Series Pilots.

ATI488C-23 Counterbore - 15/16".

15/16" Body Diameter, 3/16" Pilot Hole, 1/4" Shank Diameter. Use ATI489-Series Pilots.

ATI488C-24 Counterbore - 31/32".

31/32" Body Diameter, 3/16" Pilot Hole, 1/4" Shank Diameter for use in Drill Presses and Portable Drill Motors. Use ATI489-Series Pilots.

ATI488C-26 Counterbore - 1-1/16".

1-1/16" Body Diameter, 3/16" Pilot Hole, 3/8" Shank Diameter. Use ATI489-Series Pilots.

ATI488C-27 Counterbore - 1-1/8".

1-1/8" Body Diameter, 3/16" Pilot Hole, 3/8" Shank Diameter. Use ATI489-Series Pilots.

ATI488C-28 Counterbore - 1-3/16".

1-3/16" Body Diameter, 3/16" Pilot Hole, 3/8" Shank Diameter. Use ATI489-Series Pilots.

ATI488C-30 Counterbore - 1-5/16".

1-5/16" Body Diameter, 3/16" Pilot Hole, 3/8" Shank Diameter. Use ATI489-Series Pilots.

ATI488C-4 Counterbore - 11/32".

11/32" Body Diameter, 3/32" Pilot Hole, 1/4" Shank Diameter. Use ATI489-Series Pilots.

ATI489A-10 Pilot, Counterbore - 9/32".

9/32" Pilot Diameter, 3/32" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489A-11 Pilot, Counterbore - 5/16".

5/16" Pilot Diameter, 3/32" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489A-2 Pilot, Counterbore - 1/8".

1/8" Pilot Diameter, 3/32" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489A-4 Pilot, Counterbore #21.

#21 Pilot Diameter, 3/32" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489A-6 Pilot, Counterbore - #10.

#10 Pilot Diameter, 3/32" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489A-7 Pilot, Counterbore - 7/32".

7/32" Pilot Diameter, 3/32" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489A-9 Pilot, Counterbore - F.

F Pilot Diameter, 3/32" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489B-15 Counterbore Pilot - 7/16".

7/16" Pilot Diameter, 1/8" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489B-16 Pilot, Counterbore - 15/32".

1/8" Shank Diameter, 15/32" Pilot Diameter. Use with ATI488C-Series Counterbores.

ATI489B-17 Pilot, Counterbore - 1/2".

1/2" Pilot Diameter, 1/8" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489B-19 Pilot, Counterbore - 9/16".

9/16" Pilot Diameter, 1/8" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489B-4 Pilot, Counterbore - #21.

#21 Pilot Diameter, 1/8" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489B-7 Pilot, Counterbore - 7/32".

7/32" Pilot Diameter, 1/8" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489C10 Pilot, Counterbore - 9/32".

9/32" Pilot Diameter, 3/16" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489C-12 Pilot, Counterbore - 11/32".

11/32" Pilot Diameter, 3/16" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489C-19 Pilot, Counterbore - 9/16".

9/16" Pilot Diameter, 3/16" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489C-21 Pilot, Counterbore - 5/8".

5/8" Pilot Diameter, 3/16" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489C-25 Pilot, Counterbore - 3/4".

3/4" Pilot Diameter, 3/16" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489C-6 Pilot, Counterbore - #10.

#10 Pilot Diameter, 3/16" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI489C7 Pilot, Counterbore - 7/32".

7/32" Pilot Diameter, 3/16" Shank Diameter. Use with ATI488C-Series Counterbores.

ATI493C-0 Hollow Cutter.

.365 Cutter Diameter, .124 Inside Diameter, 1/4-28 Threaded Shank. (Fastener and Size - 1/8 Hi Shear).

Dimpling Aluminum

ATI206A-8-R Male Dimple Die - 1".

.187 Shank Diameter, 1" Body Diameter, 3/8" Body Length. Used for installing 1/4" AN426 Rivets.

ATI207A-8-R Female Dimple Die - .87.

.187 Shank Diameter, .87 Body Diameter, 3/8" Body Length. Used for installing 1/4" AN426 Rivets.

ATI227AH Air Line Hose - 20 feet long.

Used on ATI Portable and Stationary Dimpling Machines.

ATI245DA4 Male Dimple Die - 3/32".

For hot dimpling AN426 Rivet.

ATI246TM Temperature Test Meter.

Utilizes touch probe for verifying material temperature when hot dimpling.

ATI247BC Service Cord.

Used to supply the 110-Volt power from the service outlet to the Dimpling Control Unit. Male plug not furnished because of the many types of service outlets used in various plants.

ATI251DA-3 Female Dimple Die - 3/32".

3/8" Body Diameter, 1/8" Shank Length 3/32" Rivet, #40 Pilot Drill Size for AN426 Rivets. Use with ATI259 Portable Dimpling Squeezer.

ATI251DA-4 Female Dimple Die - 1/8".

3/8" Body Diameter, 1/8" Shank Length 1/8" Rivet, #30 Pilot Drill Size for AN426 Rivets. Use with ATI259 Portable Dimpling Squeezer.

ATI251DA-5 Female Dimple Die - 5/32".

3/8" Body Diameter, 1/8" Shank Length 5/32" Rivet, #21 Pilot Drill Size for AN426 Rivets. Use with ATI259 Portable Dimpling Squeezer.

ATI251DA6 Female Dimple Die - 3/16".

3/8" Body Diameter, 1/8" Shank Length 3/16" Rivet, #10 Pilot Drill Size for AN426 Rivets. Use with ATI259 Portable Dimpling Squeezer.

ATI251DB12 Female Dimple Die - 1/4".

3/8" Body Diameter, 1/8" Shank Length, 1/4" Screw, #19 Pilot Drill Size for AN509 Screws. Use with ATI259 Portable Dimpling Squeezer.

ATI252DA-3 Male Dimple Die - 3/32".

3/8" Shank Diameter, 9/16" Shank Length, 3/32" Rivet, #40 Pilot Drill Size for AN426 Rivets. Use with ATI259 Portable Dimpling Squeezer.

ATI252DA-4 Male Dimple Die - 1/8".

3/8" Shank Diameter, 9/16" Shank Length, 1/8" Rivet, #30 Pilot Drill Size for AN426 Rivets. Use with ATI259 Portable Dimpling Squeezer.

ATI252DA-5 Male Dimple Die - 5/32".

3/8" Shank Diameter, 9/16" Shank Length, 5/32" Rivet, #21 Pilot Drill Size for AN426 Rivets. Use with ATI259 Portable Dimpling Squeezer.

ATI252DA-6 Male Dimple Die - 3/16".

3/8" Shank Diameter, 9/16" Shank Length, 3/16" Rivet, #10 Pilot Drill Size for AN426 Rivets. Use with ATI259 Portable Dimpling Squeezer.

ATI252DA-8 Male Dimple Die - 1/4".

3/8" Shank Diameter, 9/16" Shank Length, 1/4" Rivet, 1/4" Pilot Drill Size for AN426 Rivets. Use with ATI259 Portable Dimpling Squeezer.

ATI252DB-10 Male Dimple Die - #10.

3/8" Shank Diameter, 9/16" Shank Length, #10 Screw, #30 Pilot Drill Size for AN509 Screws. Use with ATI259 Portable Dimpling Squeezer.

ATI252DB-12 Male Dimple Die - 1/4".

3/8" Shank Diameter, 9/16" Shank Length, 1/4" Screw, #19 Pilot Drill Size for AN509 Screws. Use with ATI259 Portable Dimpling Squeezer.

ATI252DB-8 Male Dimple Die - #8.

3/8" Shank Diameter, 9/16" Shank Length, #8 Screw, #36 Pilot Drill Size for AN509 Screws. Use with ATI259 Portable Dimpling Squeezer.

ATI252DC-3 Male Dimple Die - 3/16".

3/8" Shank Diameter, 9/16" Shank Length, 3/16" Rivet, #30 Pilot Drill Size for Hi-Shear Rivets. Use with ATI259 Portable Dimpling Squeezer.

**WARNING**

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



ATI252DC-4 Male Dimple Die - 1/4".

3/8" Shank Diameter, 9/16" Shank Length, 1/4" Rivet #19 Pilot Drill Size for Hi-Shear Rivets. Use with ATI259 Portable Dimpling Squeezer.

ATI252DC-5 Male Dimple Die - 5/16".

3/8" Shank Diameter, 9/16" Shank Length, 5/16" Rivet, #5 Pilot Drill Size for Hi-Shear Rivets. Use with ATI259 Portable Dimpling Squeezer.

ATI252DD-5 Male Dimple Die - #5.

3/8" Shank Diameter, 9/16" Shank Length, #5 Rivet, 5/16 Pilot Drill Size for Airlock. Use with ATI259 Portable Dimpling Squeezer.

ATI254DA-3 Female Dimple Die - 3/32".

3/8" Shank Diameter, 9/16" Shank Length, 3/32" Rivet, #40 Pilot Drill Size for AN426 Rivets. Use with ATI257 Thermo Dimple Gun.

ATI254DA-4 Female Dimple Die - 1/8".

3/8" Shank Diameter, 9/16" Shank Length, 1/8" Rivet, #30 Pilot Drill Size for AN426 Rivets. Use with ATI257 Thermo Dimple Gun.

ATI254DA-5 Female Dimple Die - 5/32".

3/8" Shank Diameter, 9/16" Shank Length, 5/32" Rivet, #21 Pilot Drill Size for AN426 Rivets. Use with ATI257 Thermo Dimple Gun.

ATI254DA-6 Female Dimple Die - 3/16".

3/8" Shank Diameter, 9/16" Shank Length, 3/16" Rivet #10 Pilot Drill Size for AN426 Rivets. Use with ATI257 Thermo Dimple Gun.

ATI254DA-8 Female Dimple Die - 1/4".

3/8" Shank Diameter, 9/16" Shank Length, 1/4" Rivet, 1/4" Pilot Drill Size for AN426 Rivets. Use with ATI257 Thermo Dimple Gun.

ATI254DB-10 Female Dimple Die - #10.

3/8" Shank Diameter, 9/16" Shank Length, #10 Screw, #30 Pilot Drill Size for AN509 Screws. Use with ATI257 Thermo Dimple Gun.

ATI254DB-12 Female Dimple Die - 1/4".

3/8" Shank Diameter, 9/16" Shank Length, 1/4" Screw, #19 Pilot Drill Size for AN509 Screws. Use with ATI257 Thermo Dimple Gun.

ATI254DB-8 Female Dimple Die - #8.

3/8" Shank Diameter, 9/16" Shank Length, #8 Screw, #36 Pilot Drill Size for AN509 Screws. Use with ATI257 Thermo Dimple Gun.

ATI254DC-3 Female Dimple Die - 3/16".

3/8" Shank Diameter, 9/16" Shank Length, 3/16" Rivet, #30 Pilot Drill Size for Hi-Shear Rivets. Use with ATI257 Thermo Dimple Gun.

ATI254DC-4 Female Dimple Die - 1/4".

3/8" Shank Diameter, 9/16" Shank Length, 1/4" Rivet, #19 Pilot Drill Size for Hi-Shear Rivets. Use with ATI257 Thermo Dimple Gun.

ATI254DC-5 Female Dimple Die - 5/16".

3/8" Shank Diameter, 9/16" Shank Length, 5/16" Rivet, #5 Pilot Drill Size for Hi-Shear Rivets. Use with ATI257 Thermo Dimple Gun.

ATI254DD-5 Female Dimple Die - #5.

3/8" Shank Diameter, 9/16" Shank Length, #5 Rivet, 5/16 Pilot Drill Size for Airlock. Use with ATI259 Portable Dimpling Squeezer.

ATI259G Portable Hot Dimpling Squeezer.

2" throat depth, used with ATI249PD Control Unit.

ATI259H Portable Hot Dimpling Squeezer.

4" throat depth, used with ATI249PD Control Unit.

ATI259J Portable Hot Dimpling.

6" throat depth, used with ATI249PD Control Unit.

ATI259GP Power Lead Assembly.

A 12-foot power lead with male and female receptacles to connect to the ATI249PD Control Panel and the ATI259 Portable Squeezer.

Fastener Installation Tools

ATISK3539A5 Hi-Lok® Roller Clutch Wrench Kit 5 Piece.

1/4" Square Drive Socket Wrench/Socket combinations 7/32", 1/4", 5/16", 11/32". With Diamond-Cut Removable Pliers, ATI2979U.

ATISK3539B Hi-Lok® Roller Ratchet.

Roller clutch design to maximize socket rotation with minimal handle rotation. 3/8" OD X 3" handle, zinc finish.

ATI359422116 Hi-Lok® Ratcheting Wrench Assy.

Ratchet, socket and wrench tip assemblies are used for manual installation of Hi-Lok's® in unrestricted areas.

ATI359422564 Hi-Lok® Ratcheting Wrench Assy.

Ratchet, socket and wrench tip assemblies are used for manual installation of Hi-Lok's® in unrestricted areas.

ATI359425564 Hi-Lok® Ratcheting Wrench Assy.

Ratchet, socket and wrench tip assemblies are used for manual installation of Hi-Lok's® in unrestricted areas.

ATI359428564 Hi-Lok® Ratcheting Wrench Assy.

Ratchet, socket and wrench tip assemblies are used for manual installation of Hi-Lok's® in unrestricted areas.

ATI359431116 Hi-Lok® Ratcheting Wrench Assy.

Ratchet, socket and wrench tip assemblies are used for manual installation of Hi-Lok's® in unrestricted areas.

ATI359431332 Hi-Lok® Ratcheting Wrench Assy.

Ratchet, socket and wrench tip assemblies are used for manual installation of Hi-Lok's® in unrestricted areas.

ATI359431564 Hi-Lok® Ratcheting Wrench Assy.

Ratchet, socket and wrench tip assemblies are used for manual installation of Hi-Lok's® in unrestricted areas.

ATI359434116 Hi-Lok® Ratcheting Wrench Assy.

Ratchet, socket and wrench tip assemblies are used for manual installation of Hi-Lok's® in unrestricted areas.

ATI359434332 Hi-Lok® Ratcheting Wrench Assy.

Ratchet, socket and wrench tip assemblies are used for manual installation of Hi-Lok's® in unrestricted areas.

ATI359434564 Hi-Lok® Ratcheting Wrench Assy.

Ratchet, socket and wrench tip assemblies are used for manual installation of Hi-Lok's® in unrestricted areas."

ATI35954418 Hi-Lok® Ratcheting Wrench Assy.

Ratchet, socket and wrench tip assemblies are used for manual installation of Hi-Lok's® in unrestricted areas.

ATI359544332 Hi-Lok® Ratcheting Wrench Assy.

Ratchet, socket and wrench tip assemblies are used for manual installation of Hi-Lok's® in unrestricted areas.

ATI359544532 Hi-Lok® Ratcheting Wrench Assy.

Ratchet, socket and wrench tip assemblies are used for manual installation of Hi-Lok's® in unrestricted areas.

ATI359550532 Hi-Lok® Ratcheting Wrench Assy.

Ratchet, socket and wrench tip assemblies are used for manual installation of Hi-Lok's® in unrestricted areas.

ATISK3594-2X Hi-Lok® Ratchet Extension.

2" OAL X 1/4" square drive.

ATISK3594-4X Hi-Lok® Ratchet Extension.

4" OAL X 1/4" square drive.

ATISK35953X Hi-Lok® Ratchet Extension.

3" OAL X 3/8" square drive.

ATISK35956X Hi-Lok® Ratchet Extension.

6" OAL X 3/8" square drive.

ATISK3596-.25 Socket.

1/4" Hex x 1/4" square drive.

ATISK3596-.28 Socket.

9/32" Hex x 1/4" square drive.

ATISK3596-.34 Socket.

5/16" Hex x 1/4" square drive.

ATISK368610S Socket, 5/8" Octagonal Spline 1/2" Drive.

For use on Kaynar® KFN 8-spline tamper-proof fasteners.

ATISK3686-2T Socket, #8 Octagonal Spline 1/4" Drive.

For use on Kaynar® KFN 8-spline tamper-proof fasteners.

ATISK3686-3T Socket, #10 Octagonal Spline 1/4" Drive.

For use on Kaynar® KFN 8-spline tamper-proof fasteners.

ATISK3686-4T Socket, 1/4" Octagonal Spline 1/4" Drive.

For use on Kaynar® KFN 8-spline tamper-proof fasteners.

ATISK3686-5F Socket, 5/16" Octagonal Spline 3/8" Drive.

For use on Kaynar® KFN 8-spline tamper-proof fasteners.

ATISK3686-6F Socket, 3/8" Octagonal Spline 3/8" Drive.

For use on Kaynar® KFN 8-spline tamper-proof fasteners.

ATISK3686-7S Socket, 7/16" Octagonal Spline 1/2" Drive.

For use on Kaynar® KFN 8-spline tamper-proof fasteners.

ATISK3686-8S Socket, 1/2" Octagonal Spline 1/2" Drive.

For use on Kaynar® KFN 8-spline tamper-proof fasteners.

ATISK3686-9S Socket, 9/16" Octagonal Spline 1/2" Drive.

For use on Kaynar® KFN 8-spline tamper-proof fasteners.

ATISK3744 Ratchet, Flex Hi-Lok® 1/4" drive.

Riveting Tools and Accessories / Bucking Bars

AT1100110 Bucking Bar, replacement head only, used with Trauma-Reduced Bar Assembly.

AT11001-11 Bucking Bar, replacement head only, used with Trauma-Reduced Bar Assembly.

AT1100112 Bucking Bar, replacement head only, used with Trauma-Reduced Bar Assembly.

AT1100113 Bucking Bar, replacement head only, used with Trauma-Reduced Bar Assembly.

AT11001-8 Bucking Bar, replacement head only, used with Trauma-Reduced Bar Assembly.

AT110019 Bucking Bar, replacement head only, used with Trauma-Reduced Bar Assembly.

AT11001A8 Bucking Bar and Handle Assembly (Trauma-Reduced).

AT1100AF-5B Rivet Set.
Straight-drive, 401 shank, 5-1/2" OAL for installing flush rivets.

AT1100AF8A Rivet Set Flush.
Straight-drive, 401 shank, 10-1/2" OAL for installing flush rivets.

AT1101A31/4F Cupped Rivet Set.
Offset-drive, 401 shank, 3-1/2" OAL for installing 1/4" BACR15FT rivets.

AT1101A3316F Cupped Rivet Set.
Offset-drive, 401 shank, 3-1/2" OAL for installing 3/16" BACR15FT rivets.

AT1101A3532F Cupped Rivet Set.
Offset-drive, 401 shank, 3-1/2" OAL for installing 5/32" BACR15FT rivets.

AT1101A3732 Cupped Rivet Set.
Offset-drive, 401 shank, 3-1/2" OAL for installing 7/32" AN470 rivets.

AT1101A3732F Cupped Rivet Set.
Offset-drive, 401 shank, 3-1/2" OAL for installing 7/32" BACR15FT rivets.

AT1101A73/32 Cupped Rivet Set.
Offset-drive, 401 shank, 7-1/2" OAL for installing 3/32" AN470 rivets.

AT1101A818 Cupped Rivet Set.
Offset-drive, 401 shank, 10-1/2" OAL for installing 1/8" AN470 rivets.

AT1101A8316 Cupped Rivet.
Offset-drive, 401 shank, 10-1/2" OAL for installing 3/16" AN470 rivets.

AT1101A8332 Cupped Rivet Set. Offset-drive, 401 shank, 10-1/2" OAL for installing 3/32" AN470 rivets.

AT1101A8532 Cupped Rivet Set.
Offset-drive, 401 shank, 10-1/2" OAL for installing 5/32" AN470 rivets.

AT1101AF8A Rivet Set, Flush Offset.
Offset-drive, 401 shank, 10-1/2" length for installing flush rivets.

AT1104A-1/8 Rivet Set, Straight.
Gooseneck-drive, 401 shank, 6-5/8" OAL for installing 1/8" AN470 rivets.

AT1104A-3/16 Rivet Set, Straight.
Gooseneck-drive, 401 shank, 6-5/8" OAL for installing 3/16" AN470 rivets.

AT1104A-3/32 Rivet Set, Straight.
Gooseneck-drive, 401 shank, 6-5/8" OAL for installing 3/32" AN470 rivets.

AT1107A2DN Flush Rivet Set-Nylon Head - 1".
Peening tool, 401 shank, 3-1/4" OAL, 1" diameter face, nylon head for straightening aluminum after forming.

AT1108AW3/16 Squeezer Set.
3/16" Shank Diameter, 1/2" Body Diameter, 3/4" Body Length for Installing 3/16" AN470 Cupped Rivets.

AT1115B Retainer Spring-Beehive - 5/8".
Beehive Retainer Spring fixed on Rivet Gun to hold 5/8" Body Diameter Rivet Sets securely, affording maximum safety.

AT1118AL5 Huck Squeezer Set - 5/32".
3/16" Shank Diameter, 5/32" Huck Size, 1/2" Body Length, 1/2" Body Diameter for fast, accurate swaging of Huck Lockbolt Collars.

AT1118AL6 Huck Squeezer Set - 5/8".
3/16" Shank Diameter, 3/16" Huck Size, 5/8" Body Length, 9/16" Body Diameter for fast, accurate swaging of Huck Lockbolt Collars.

AT1118D3-L6 Huck Offset Drive Set - 3/16".
.401 Shank Diameter, 3/16" Huck Size, 3-1/2" OAL for driving Huck Lockbolt Collars. Straight Drive Part Number: AT1118M3-L6.

AT1118D3L8 Huck Offset Drive Set - 1/4".
.498 Shank Diameter, 1/4" Huck Size, 3-1/2" OAL for driving Huck Lockbolt Collars. Straight Drive Part Number: AT1118M3L8.

AT1118M3-L5 Huck Straight Drive Set - 5/32".
.401 Shank Diameter, 5/32" Huck Size, 3-1/2" OAL for driving Huck Lockbolt Collars. Offset Drive Part Number: AT1118D3-L5.

AT1118M3-L6 Huck Straight Drive Set - 3/16".
.401 Shank Diameter, 3/16" Huck Size, 3-1/2" OAL for driving Huck Lockbolt Collars. Offset Drive Part Number: AT1118D3-L6.

AT1118M3L8 Huck Straight Drive Set - 1/4".
.498 Shank Diameter, 1/4" Huck Size, 3-1/2" OAL for driving Huck Lockbolt Collars. Offset Drive Part Number: AT1118D3L8.

AT1130A3-1/4 Straight Gun Set For Alum. Riv - 1/4".
.401 Shank Diameter, 1/4" High-Shear Rivet Size, 3-1/2" OAL for driving Hi-Shear Rivet Collars. Offset Drive Part Number AT1131A314.

AT1130A318 Straight Gun Set For Alum. Riv - 1/8".
.401 Shank Diameter, 1/8" High-Shear Rivet Size, 3-1/2" OAL for driving Hi-Shear Rivet Collars. Offset Drive Part Number AT1131A318.

AT1130A3316 Straight Gun Set For Alum. Riv - 3/16".

.401 Shank Diameter, 3/16" High-Shear Rivet Size, 3-1/2" OAL for driving Hi-Shear Rivet Collars. Offset Drive Part Number AT1131A3316.

AT1130A3532 Straight Gun Set For Alum. Riv - 5/32".
.401 Shank Diameter, 5/32" High-Shear Rivet Size, 3-1/2" OAL for driving Hi-Shear Rivet Collars. Offset Drive Part Number AT1131A3532.

AT1131A314 Offset Drive Set For Alum. Riv - 1/4".
.401 Shank Diameter, 1/4" High-Shear Rivet Size, 3-1/2" OAL for driving Hi-Shear Rivet Collars. Straight Drive Part Number AT1130A3-1/4.

AT1131A318 Offset Drive Set For Alum. Riv - 1/8".
.401 Shank Diameter, 1/8" High-Shear Rivet Size, 3-1/2" OAL for driving Hi-Shear Rivet Collars. Straight Drive Part Number AT1130A318.

AT1131A3316 Offset Drive Set For Alum. Riv - 3/16".
.401 Shank Diameter, 3/16" High-Shear Rivet Size, 3-1/2" OAL for driving Hi-Shear Rivet Collars. Straight Drive Part Number AT1130A3316.

AT1131A3532 Offset Drive Set For Alum. Riv - 5/32".
.401 Shank Diameter, 5/32" High-Shear Rivet Size, 3-1/2" OAL for driving Hi-Shear Rivet Collars. Straight Drive Part Number AT1130A3532.

AT1140A-12 Knock-Out Punch - 3/8".
.401 Shank Diameter, 3/8" Rivet Size, 3-1/2" OAL.

AT11757AP332 Cupped Rivet Set.
.401 Shank, 1/4" Body Length, 5/8" Body Diameter.

AT11758AP Flush Rivet Set.
.401 Shank, 1/4" Body Length, 5/8" Body Diameter.

AT1502D Yoke.
1-1/2" Reach, Used with AT1502AH Handle Assembly.

AT1502E Yoke.
3" Reach, Used with AT1502AH Handle Assembly.

AT1502T-1-1/2" Yoke.
1-1/2" Reach, Used with AT1502TH Handle Assembly.

AT1502TH Handle Assembly.

AT1540M Body-Screw Extractor.

AT1560MF-36 Aluminum Mina-Vac Assembly.
AT1560M aluminum vacuum with 36" clear flex tube.

AT1560MFE36 Clear Flex Tube.
36" clear plastic tube.

AT1560MR18 Aluminum Mina-Vac Assembly.
AT1560M aluminum vacuum with 18" clear rigid tube.

AT1560MR36 Aluminum Mina-Vac Assembly.
AT1560M aluminum vacuum with 36" clear rigid tube.

AT1560MRE18 Clear Rigid Tube.
18" clear rigid tube.

AT1560MRE24 Clear Rigid Tube.
24" clear rigid tube.



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



ATI560MRE36 Clear Rigid Tube.
36" clear rigid tube.

ATI1001K Trauma-Reduced Bucking Bar Kit.

ATI1001UK Trauma Reducing Bucking Bar Kit.
Significantly reduces vibration. Adjustable tension.
Five bucking bars and one ergonomic handle assembly.

ATI590BBK Bucking Bar Set.
Set includes ATI638, ATI647, ATI670 and ATI681.
Please refer to bucking bar specifications.

ATI590-5BBK Bucking Bar Kit.
5-piece Bucking Bar Set consisting of: ATI604, ATI638, ATI649, ATI656, ATI730.

ATI590-10BBK Bucking Bar Kit.
10-piece Bucking Bar Set consisting of: ATI604, ATI638, ATI649, ATI656, ATI669, ATI670, ATI720, ATI730, ATI750P-3, ATI760B-2.

ATI590-15BBK Bucking Bar Kit.
15-piece Bucking Bar Set consisting of: ATI604, ATI633, ATI638, ATI646, ATI649, ATI656, ATI669, ATI670, ATI681, ATI702, ATI720, ATI730, ATI736, ATI750P-3, ATI760B-2.

ATI595BK 90 Degree Rivet Gun Attachment Kit.
Complete with ATI595B Angle Attachment, and one each ATI1757AP 3/32", 1/8" and 5/32" Cupped Sets, and one each ATI1758AP Flush Set.

ATI606 Bucking Bar.
.75 lb (.34 kg)

ATI607 Bucking Bar.
2.5 lbs (1.13 kgs)

ATI609 Bucking Bar.
.5 lb (.23 kg)

ATI613 Bucking Bar.
5.5 lbs (2.49 kgs)

ATI614 Bucking Bar.
2.75 lbs (1.25 kgs)

ATI618 Bucking Bar.
2.25 lbs (1.02 kgs)

ATI624 Bucking Bar.
1 lb (.45 kg)

ATI625 Bucking Bar.
5.25 lbs (2.38 kgs)

ATI626 Bucking Bar.
6 lbs (2.72 kgs)

ATI627 Bucking Bar.
7.75 lbs (3.52 kgs)

ATI630 Bucking Bar.
1.5 lbs (.68 kg)

ATI636 Bucking Bar.
1 lbs (.45 kg)

ATI640 Bucking Bar.
3 lbs (1.36 kgs)

ATI642 Bucking Bar.
2.5 lbs (1.13 kgs)

ATI644 Bucking Bar.
11.75 lbs (5.33 kgs)

ATI646 Bucking Bar.
2.25 lbs (1.02 kgs)

ATI653 Bucking Bar.
3 lbs (1.36 kgs)

ATI657 Bucking Bar.
3 lbs (1.36 kgs)

ATI658 Bucking Bar.
3.75 lbs (1.7 kgs)

ATI661 Bucking Bar.
5.25 lbs (2.38 kgs)

ATI662 Bucking Bar.
.75 lb (.34 kg)

ATI666 Bucking Bar.
9.25 lbs (4.2 kgs)

ATI672 Bucking Bar.
1.25 lbs (.57 kg)

ATI678 Bucking Bar.
1.75 lbs (.79 kg)

ATI687 Bucking Bar.
.5 lb (.23 kg)

ATI697 Bucking Bar.
3 lbs (1.36 kgs)

ATI704 Bucking Bar.
.75 lb (.34 kg)

ATI707 Bucking Bar.
1.5 lbs (.68 kg)

ATI711 Bucking Bar.
1.25 lbs (.57 kg)

ATI715 Bucking Bar.
2 lbs (.91 kg)

ATI718 Bucking Bar.
1.5 lbs (.68 kg)

ATI728 Bucking Bar.
.75 lb (.34 kg)

ATI729-5 Bucking Bar.
4.5 lbs (2.04 kgs)

ATI7297 Bucking Bar.
.25 lb (.11 kg)

ATI735 Bucking Bar.
1.75 lbs (.79 kg)

ATI750E-1 Bucking Bar.
3.25 lbs (1.47 kgs)

ATI750J-5 Bucking Bar.
1.75 lbs (.79 kg)

ATI750J-20 Bucking Bar.
0.75 lb (.34 kg)

ATI750K-1 Bucking Bar.
1 lb (.45 kg)

ATI750K-2 Bucking Bar.
1.25 lbs (.57 kg)

ATI750N-26 Bucking Bar.
4.75 lbs (2.15 kgs)

ATI750P-3 Bucking Bar.
2.75 lbs (1.25 kgs)

ATI750S-61 Bucking Bar.
2.75 lbs (1.25 kgs)

ATI750T-1 Bucking Bar.
.75 lb (.34 kg)

ATI750U-1 Bucking Bar.
2 lbs (.91 kg)

ATI751K-1 Bucking Bar.
3 lbs (1.36 kgs)

ATI751R-H Bucking Bar.
.5 lb (.23 kg)

ATI751U-1 Bucking Bar-R.H
1.25 lbs (.57 kg)

ATI751V-1 Bucking Bar.
1.25 lbs (.57 kg)

ATI752F-1 Bucking Bar.
1.25 lbs (.57 kg)

ATI752T-1 Bucking Bar.
1 lb (.45 kg)

ATI752Z-1 Bucking Bar.
1.5 lbs (.68 kg)

ATI753T-4 Bucking Bar.
1.25 lbs (.57 kg)

ATI760B-1 Bucking Bar.
1.75 lbs (.79 kg)

ATI760B-8 Bucking Bar.
1.75 lbs (.79 kg)

ATI760C-1 Bucking Bar.
2 lbs (.91 kg)

ATI761C5 Bucking Bar.
4.5 lbs (2.04 kgs)

ATI751Y-11 Bucking Bar.
.75 lb (.34 kg)

ATIC502T3 3" Yoke Assembly.
Fits ATIC502TH hand rivet squeezer handle.

ATIC502TH3 Hand Squeezer With 3" Yoke.
High quality stainless steel adjustable ram, rivet squeezer.

ST1111BVR1 Rim, Rivet Set.
Rim, replacement, polyurethane.

ST1112BC453 Boeing Modified Rivet Set-BACR15FT.
Straight drive, 1/8" rivet size, 1.75 body length, 3.31 OAL, .401 shank.

ST1112BC553 Boeing Modified Rivet Set-BACR15FT.
Straight drive, 5/32" rivet size, 1.75 body length, 3.31 OAL, .401 shank.

ST1112BC653 Boeing Modified Rivet Set-BACR15FT.
Straight drive, 3/16" rivet size, 1.75 body length, 3.31 OAL, .401 shank.

ST1112BC853 Boeing Modified Rivet Set-BACR15FT.
Straight drive, 1/4" rivet size, 1.75 body length, 3.31 OAL, .401 shank.

ST1112MBC7 Boeing Modified Rivet Set-BACR15FT.
Straight drive, 7/32" rivet size, 3.31 OAL, .401 shank.

ST1112MBR63 Boeing Modified Rivet Set-BACR15FT.
Off-set drive, 7/32" rivet size, 3.50 OAL, .401 shank.

Aircraft Cable Swaging / Pull Testors and Accessories

ATI520CD-3 Cutter Die - 3/32" Cable.

Female side of the cutter die, packaged individually. Perfectly cuts and/or trims cable strands flush with ball end. Eliminates ragged ends. Used with ATI520CP-3 male punch die.

ATI520CD-6 Cutter Die - 3/16" Cable.

Female side of the cutter die, packaged individually. Perfectly cuts and/or trims cable strands flush with ball end. Eliminates ragged ends. Used with ATI520CP-6 male punch die.

ATI520CD-7 Cutter Die - 7/32" Cable.

Female side of the cutter die, packaged individually. Perfectly cuts and/or trims cable strands flush with ball end. Eliminates ragged ends. Used with ATI520CP-7 male punch die.

ATI520CD-8 Cutter Die - 1/4" Cable.

Female side of the cutter die, packaged individually. Perfectly cuts and/or trims cable strands flush with ball end. Eliminates ragged ends. Used with ATI520CP-8 male punch die.

ATI520CDB-5 Swaging Die - 5/32" Cable.

Swages MS20663-5 terminal to cable. Packaged as a matched pair.

ATI520CDB-6 Swaging Die - 3/16" Cable.

Swages MS20663-6 terminal to cable. Packaged as a matched pair.

ATI520CP-3 Punch Die - 3/32" Cable.

Male side of the cutter die, packaged individually. Perfectly cuts and/or trims cable strands flush with ball end. Eliminates ragged ends. Used with ATI520CD-3 female cutter die. Requires the use of spacer ATI520SP behind punch die.

ATI520CP-4 Punch Die - 1/8" Cable.

Male side of the cutter die, packaged individually. Perfectly cuts and/or trims cable strands flush with ball end. Eliminates ragged ends. Used with ATI520CD-4 female cutter die. Requires the use of spacer ATI520SP behind punch die.

ATI520CP-7 Punch Die - 7/32" Cable.

Male side of the cutter die, packaged individually. Perfectly cuts and/or trims cable strands flush with ball end. Eliminates ragged ends. Used with ATI520CD-7 female cutter die. Requires the use of spacer ATI520SP behind punch die.

ATI520CP-8 Punch Die - 1/4" Cable.

Male side of the cutter die, packaged individually. Perfectly cuts and/or trims cable strands flush with ball end. Eliminates ragged ends. Used with ATI520CD-8 female cutter die. Requires the use of spacer ATI520SP behind punch die.

ATI520CS-8 Swaging Die - 1/4" Cable.

Swages MS21259-8, MS20667-8, MS20668-8, MS21260-8 terminal to cable. Packaged as a matched pair.

ATI520CSB-5 Swaging Die - 5/32" Cable.

Swages MS20664-5 terminal to cable. Packaged as a matched pair.

ATI520CTF-5 Adaptor - 5/32".

MS20667 Terminal.
Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTF6 Adaptor - 3/16".

MS20667 Terminal.
Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTF7 Adaptor - 7/32".

MS20667 Terminal.
Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTF-8 Adaptor - 1/4".

MS20667 Terminal.
Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTS-2 Adaptor - 1/16".

Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTS-3 Adaptor - 3/32".

Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTS-6 Adaptor - 3/16".

Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTT2RH Adaptor - 1/16".

AN666, AN669 Terminals.
Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTT20L Adaptor - 1/16".

AN666, AN669 Terminals.
Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTT3RH Adapter - 3/32".

AN666, AN669 Terminals.
Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTT30L Adapter - 3/32".

AN666, AN669 Terminals.
Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTT4RH Adaptor - 1/8", 5/32".

AN666, AN669 Terminals.
Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTT40L Adaptor - 1/8", 5/32".

AN666, AN669 Terminals.
Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTT6RH Adaptor - 3/16".

AN666, AN669 Terminals.
Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTT60L Adaptor - 3/16".

AN666, AN669 Terminals.
Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTT7RH Adaptor - 7/32".

AN666, AN669 Terminals.
Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520CTT70L Adaptor - 7/32".

AN666, AN669 Terminals.
Terminal Adaptor used with ATI520CT PULL TESTER KIT.

ATI520D Swager Equipment.

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 AN63 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 new 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.

ATI520DK Stationary Pneumatic Cable Swager Kit.

The ATI520DK Stationary Cable Swager Kit includes the ATI520D Swager, and the 28 pair of swaging and cut-and-trim dies shown with the ATI520JK Portable Cable Swager Kit. (Page 50).

ATI520HK Hydraulic Swager Kit.

The ATI520HK Hydraulic Swager Kit consists of the ATI520H Swager, thirteen pair of dies for swaging all of the "MS" Ball and Sleeve type terminals onto cable diameters 7/32" through 3/8".

Shop Tools and Accessories

ATI501C Disarming Tool.

ATI560PF12 Flex Tube Assembly.

ATI560PF-24 Flexible Tube Assembly.

ATISK3519K Needle File Kit Assembly.

6-1/4", Cut 2 Swiss Needle file set of 12. Complete with collect-type handle. Set consists of: Round, Half-Round, Flat, Crossing, Knife, Square, Three-Square, Equaling, Barrette, Joint, Slitting, Marking.

ATIB1036-1 8 Bit Caddy, 1/4".

8-hole capacity.

ATIB1036-2 Bit Caddy, 12 Ea. 1/4".

12-hole capacity.

ATIST9999V Air Vacuum - Portable - Hand (Boeing Design).

ATIST9999V-5 Replacement Bags for ST9999V.

ATIST9999VK Vacuum Repair Kit/Bag.



WARNING

- Airframe tooling can cause flying chips.
- Wear safety goggles (user and bystanders).



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| ATI611 | 5120-01-368-4243 | 45 | ATIB1036-2 | 5120-01-428-5614 | 71 | | | |
| ATI612 | 5120-01-368-4244 | 45 | ATIF936 | | 35 | | | |
| ATI613 | 5120-01-368-4245 | 41 | ATIG747CMR | | 41 | | | |
| ATI614 | 5120-00-177-7050 | 70 | ATIG800CMR | | 41 | | | |
| ATI616 | 5120-01-368-4246 | 45 | ATIG83AKT | | 41 | | | |
| ATI618 | 5120-01-368-4221 | 70 | ATIG84LBK | | 41 | | | |
| ATI619 | 5120-01-368-4355 | 46 | ATIHSSL1/4 | | 17 | | | |
| ATI622 | 5120-01-368-4224 | 46 | ATIHSSSH1/4 | 5133-01-546-6317 | 17 | | | |
| ATI624 | 5120-01-368-4225 | 70 | ATIHSSSH1/8 | 5133-01-546-6313 | 17 | | | |
| ATI625 | 5120-01-368-4226 | 70 | ATIHSSSH3/16 | 5133-01-546-6315 | 17 | | | |
| ATI626 | 5120-01-368-4227 | 70 | ATIHSSSH5/32 | | 17 | | | |
| ATI627 | 5120-01-368-4228 | 70 | ATIHSSST1/4 | | 17 | | | |
| ATI629 | 5120-01-368-4230 | 46 | ATIHSSST1/8 | | 17 | | | |
| ATI630 | 5120-01-368-4231 | 70 | ATIHSSST3/16 | | 17 | | | |

Decimal Equivalents Chart

| DRILL SIZE | MM | DECIMAL INCHES |
|------------|------|----------------|
| — | 0.1 | 0.0039 |
| — | 0.2 | 0.0079 |
| — | 0.25 | 0.0098 |
| — | 0.3 | 0.0118 |
| 80 | 0.34 | 0.0135 |
| 79 | 0.37 | 0.0145 |
| 1/64 | 0.4 | 0.0156 |
| 78 | 0.41 | 0.016 |
| 77 | 0.46 | 0.018 |
| — | 0.5 | 0.0197 |
| 76 | 0.51 | 0.02 |
| 75 | 0.53 | 0.021 |
| 74 | 0.57 | 0.0225 |
| — | 0.6 | 0.0236 |
| 73 | 0.61 | 0.024 |
| 72 | 0.64 | 0.025 |
| 71 | 0.66 | 0.026 |
| — | 0.7 | 0.0276 |
| 70 | 0.71 | 0.028 |
| 69 | 0.74 | 0.0292 |
| — | 0.75 | 0.0295 |
| 68 | 0.79 | 0.031 |
| 1/32 | 0.79 | 0.0313 |
| — | 0.8 | 0.0315 |
| 67 | 0.81 | 0.032 |
| 66 | 0.84 | 0.033 |
| 65 | 0.89 | 0.035 |
| — | 0.9 | 0.0354 |
| 64 | 0.91 | 0.036 |
| 63 | 0.94 | 0.037 |
| 62 | 0.97 | 0.038 |
| 61 | 0.99 | 0.039 |
| — | 1 | 0.0394 |
| 60 | 1.02 | 0.04 |
| 59 | 1.04 | 0.041 |
| 58 | 1.07 | 0.042 |
| 57 | 1.09 | 0.043 |
| 56 | 1.18 | 0.0465 |
| 3/64 | 1.19 | 0.0469 |
| 55 | 1.32 | 0.052 |
| 54 | 1.4 | 0.055 |
| 53 | 1.51 | 0.0595 |
| 1/16 | 1.59 | 0.0625 |
| 52 | 1.61 | 0.0635 |
| 51 | 1.7 | 0.067 |
| 50 | 1.78 | 0.07 |
| 49 | 1.85 | 0.073 |
| 48 | 1.93 | 0.076 |
| 5/64 | 1.98 | 0.0781 |
| 47 | 1.99 | 0.0785 |
| — | 2 | 0.0787 |
| 46 | 2.06 | 0.081 |

| DRILL SIZE | MM | DECIMAL INCHES |
|------------|------|----------------|
| 45 | 2.08 | 0.082 |
| 44 | 2.18 | 0.086 |
| 43 | 2.26 | 0.089 |
| 42 | 2.37 | 0.0935 |
| 3/32 | 2.38 | 0.0938 |
| 41 | 2.44 | 0.096 |
| 40 | 2.5 | 0.098 |
| 39 | 2.53 | 0.0995 |
| 38 | 2.58 | 0.1015 |
| 37 | 2.64 | 0.104 |
| 36 | 2.71 | 0.1065 |
| 7/64 | 2.78 | 0.1094 |
| 35 | 2.79 | 0.11 |
| 34 | 2.82 | 0.111 |
| 33 | 2.87 | 0.113 |
| 32 | 2.95 | 0.116 |
| — | 3 | 0.1181 |
| 31 | 3.05 | 0.12 |
| 1/8 | 3.18 | 0.125 |
| 30 | 3.26 | 0.1285 |
| 29 | 3.45 | 0.136 |
| 28 | 3.57 | 0.1405 |
| 9/64 | 3.57 | 0.1406 |
| 27 | 3.66 | 0.144 |
| 26 | 3.73 | 0.147 |
| 25 | 3.8 | 0.1495 |
| 24 | 3.86 | 0.152 |
| 23 | 3.91 | 0.154 |
| 5/32 | 3.97 | 0.1562 |
| 22 | 3.99 | 0.157 |
| — | 4 | 0.1575 |
| 21 | 4.04 | 0.159 |
| 20 | 4.09 | 0.161 |
| 19 | 4.22 | 0.166 |
| 18 | 4.31 | 0.1695 |
| 11/64 | 4.37 | 0.1719 |
| 17 | 4.39 | 0.173 |
| 16 | 4.5 | 0.177 |
| 15 | 4.57 | 0.18 |
| 14 | 4.62 | 0.182 |
| 13 | 4.7 | 0.185 |
| 3/16 | 4.76 | 0.1875 |
| 12 | 4.8 | 0.189 |
| 11 | 4.85 | 0.191 |
| 10 | 4.91 | 0.1935 |
| 9 | 4.98 | 0.196 |
| — | 5 | 0.1968 |
| 8 | 5.05 | 0.199 |
| 7 | 5.11 | 0.201 |
| 13/64 | 5.16 | 0.2031 |
| 6 | 5.18 | 0.204 |

| DRILL SIZE | MM | DECIMAL INCHES |
|------------|-------|----------------|
| 5 | 5.22 | 0.2055 |
| 4 | 5.31 | 0.209 |
| 3 | 5.41 | 0.213 |
| 7/32 | 5.56 | 0.2188 |
| 2 | 5.61 | 0.221 |
| 1 | 5.79 | 0.228 |
| A | 5.94 | 0.234 |
| 15/64 | 5.95 | 0.2344 |
| — | 6 | 0.2362 |
| B | 6.05 | 0.238 |
| C | 6.15 | 0.242 |
| D | 6.25 | 0.246 |
| 1/4 | 6.35 | 0.25 |
| E | 6.35 | 0.25 |
| F | 6.53 | 0.257 |
| G | 6.63 | 0.261 |
| 17/64 | 6.75 | 0.2656 |
| H | 6.76 | 0.266 |
| I | 6.91 | 0.272 |
| — | 7 | 0.2756 |
| J | 7.04 | 0.277 |
| K | 7.14 | 0.281 |
| 9/32 | 7.14 | 0.2812 |
| L | 7.37 | 0.29 |
| M | 7.49 | 0.295 |
| 19/64 | 7.54 | 0.2969 |
| N | 7.67 | 0.302 |
| 5/16 | 7.94 | 0.3125 |
| — | 8 | 0.315 |
| O | 8.03 | 0.316 |
| P | 8.2 | 0.323 |
| 21/64 | 8.33 | 0.3281 |
| Q | 8.43 | 0.332 |
| R | 8.61 | 0.339 |
| 11/32 | 8.73 | 0.3438 |
| S | 8.84 | 0.348 |
| — | 9 | 0.3543 |
| T | 9.09 | 0.358 |
| 23/64 | 9.13 | 0.3594 |
| U | 9.35 | 0.368 |
| 3/8 | 9.53 | 0.375 |
| V | 9.56 | 0.377 |
| W | 9.8 | 0.386 |
| 25/64 | 9.92 | 0.3906 |
| — | 10 | 0.3937 |
| X | 10.08 | 0.397 |
| Y | 10.26 | 0.404 |
| 13/32 | 10.32 | 0.4062 |
| Z | 10.49 | 0.413 |
| 27/64 | 10.72 | 0.4219 |
| — | 11 | 0.4331 |

| DRILL SIZE | MM | DECIMAL INCHES |
|------------|-------|----------------|
| 7/16 | 11.11 | 0.4375 |
| 29/64 | 11.51 | 0.4531 |
| 15/32 | 11.91 | 0.4688 |
| — | 12 | 0.4724 |
| 31/64 | 12.3 | 0.4844 |
| 1/2 | 12.7 | 0.5 |
| — | 13 | 0.5118 |
| 33/64 | 13.1 | 0.5156 |
| 17/32 | 13.49 | 0.5312 |
| 35/64 | 13.89 | 0.5469 |
| — | 14 | 0.5512 |
| 9/16 | 14.29 | 0.5625 |
| 37/64 | 14.68 | 0.5781 |
| — | 15 | 0.5906 |
| 19/32 | 15.08 | 0.5938 |
| 39/64 | 15.48 | 0.6094 |
| 5/8 | 15.88 | 0.625 |
| — | 16 | 0.6299 |
| 41/64 | 16.27 | 0.6406 |
| 21/32 | 16.67 | 0.6562 |
| — | 17 | 0.6693 |
| 43/64 | 17.07 | 0.6719 |
| 11/16 | 17.46 | 0.6875 |
| 45/64 | 17.86 | 0.7031 |
| — | 18 | 0.7087 |
| 23/32 | 18.26 | 0.7188 |
| 47/64 | 18.65 | 0.7344 |
| — | 19 | 0.748 |
| 3/4 | 19.05 | 0.75 |
| 49/64 | 19.45 | 0.7656 |
| 25/32 | 19.84 | 0.7812 |
| — | 20 | 0.7874 |
| 51/64 | 20.24 | 0.7969 |
| 13/16 | 20.64 | 0.8125 |
| — | 21 | 0.8268 |
| 53/64 | 21.03 | 0.8281 |
| 27/32 | 21.43 | 0.8438 |
| 55/64 | 21.84 | 0.8594 |
| — | 22 | 0.8661 |
| 7/8 | 22.23 | 0.875 |
| 57/64 | 22.62 | 0.8906 |
| — | 23 | 0.9055 |
| 29/32 | 23.02 | 0.9062 |
| 59/64 | 23.42 | 0.9219 |
| 15/16 | 23.81 | 0.9375 |
| — | 24 | 0.9449 |
| 61/64 | 24.21 | 0.9531 |
| 31/32 | 24.61 | 0.9688 |
| — | 25 | 0.9842 |
| 63/64 | 25 | 0.9844 |
| 1 | 25.4 | 1 |

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