

DRILLING • RIVETING • COUNTERSINKING • BUCKING



ATI® TOOLS

A Snap-on Specialty Tools Brand

**Snap-on**

Specialty Tools

AIRFRAME TOOLING FOR PRODUCTION & MAINTENANCE

## 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" 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.

**ATI441HSA A9 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.

**ATI445PDG4 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).**

**AT11001K Trauma-Reduced Bucking Bar Kit.**

**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: AT1118D-3-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.

**ATI502D Yoke.**  
1-1/2" Reach, Used with ATI502AH Handle Assembly.

**ATI502E Yoke.**  
3" Reach, Used with ATI502AH Handle Assembly.

**ATI502T-1-1/2" Yoke.**  
1-1/2" Reach, Used with ATIC502TH Handle Assembly.

**ATI502TH Handle Assembly.**

**ATI540M Body-Screw Extractor.**



### WARNING

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



**ATI560MF-36 Aluminum Mina-Vac Assembly.**  
ATI560M aluminum vacuum with 36" clear flex tube.

**ATI560MFE36 Clear Flex Tube.**  
36" clear plastic tube.

**ATI560MR18 Aluminum Mina-Vac Assembly.**  
ATI560M aluminum vacuum with 18" clear rigid tube.

**ATI560MR36 Aluminum Mina-Vac Assembly.**  
ATI560M aluminum vacuum with 36" clear rigid tube.

**ATI560MRE18 Clear Rigid Tube.**  
18" clear rigid tube.

**ATI560MRE24 Clear Rigid Tube.**  
24" clear rigid tube.

**ATI560MRE36 Clear Rigid Tube.**  
36" clear rigid tube.

**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)

**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 Adaptor - 3/32".

AN666, AN669 Terminals.  
Terminal Adaptor used with ATI520CT PULL TESTER KIT.

### ATI520CTT30L Adaptor - 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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**Snap-on Specialty Tools**  
19220 San Jose Avenue  
City of Industry, CA 91748  
Toll Free: (800) 284.4460  
Phone: (626) 965.0668  
FAX: (626) 965.2410

[www.snaponspecialtytools.com](http://www.snaponspecialtytools.com)