



*Andrews*

TOOL ★ CO

DESIGN & ENGINEERING



Andrews Tool Company's goal is to provide airframe manufacturers with ergonomic, reliable, high precision portable power feed machines that limit injury and decrease manufacturing costs. ATC proudly partners with aerospace industry leaders to provide engineered solutions.

ATC's lightweight power feed motors reduce injuries by decreasing physical stress on the operator. Carpal tunnel syndrome, rotator cuff damage, and other common repetitive motion injuries can be avoided.

ATC air power feed motors quickly and efficiently drill close tolerance holes within specification the first time, effectively lowering the cost per hole. In contrast, positive feed or screw fed tools advance a drill incrementally per rotation, regardless of the cutter's condition or the hole it is producing. Dull or chipped cutters can go undetected during these fixed feed cycles, resulting in non-conforming holes.

Our air power feed design with hydraulic feed control allows the drill to cut at its optimum rate. As the cutter dulls, cycle time will increase, warning the operator that it's time to change the bit. Subsequently, non-conforming holes and extremely costly rework can be avoided.



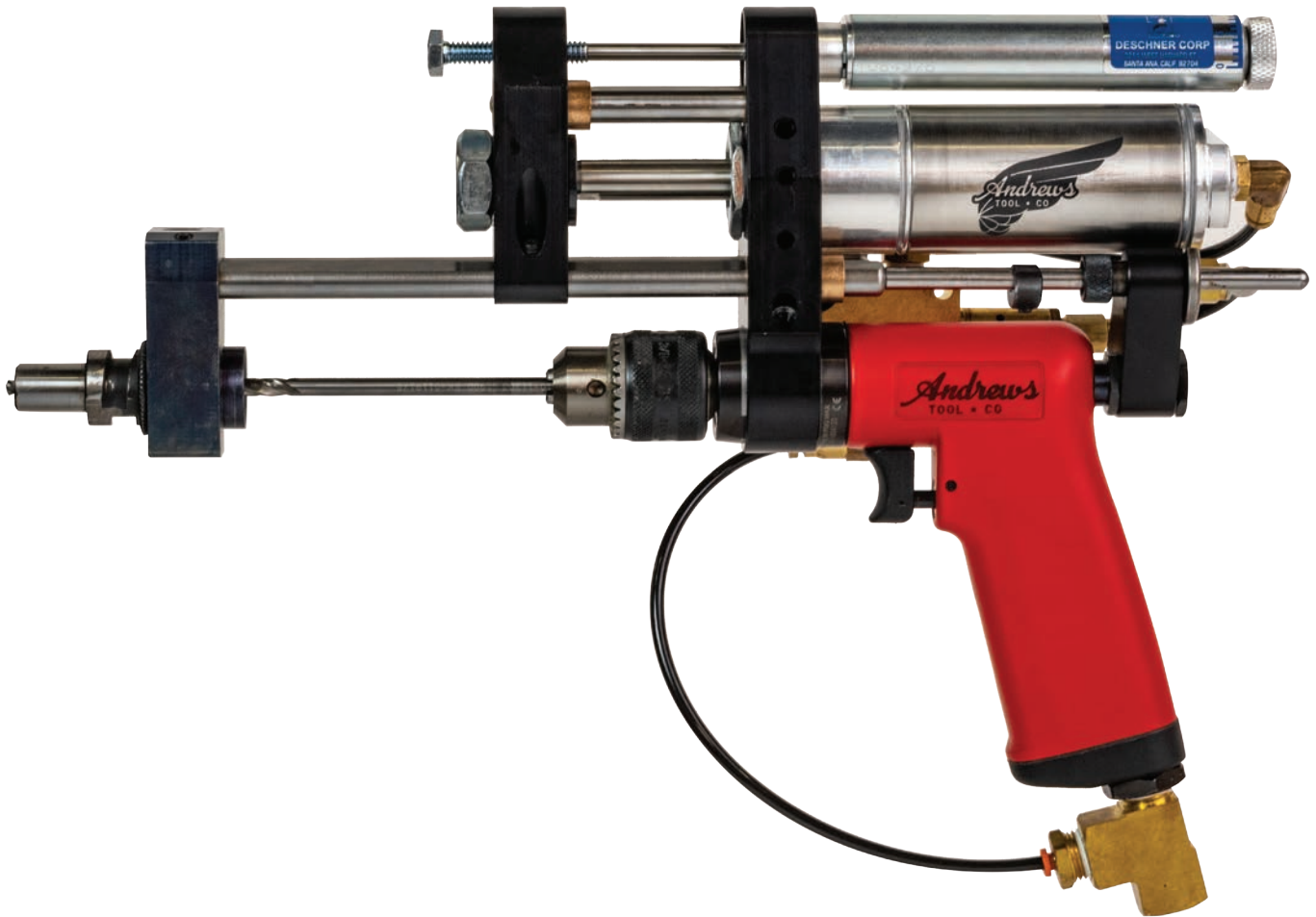




*Products*

# POWER FEED DRILL MOTOR

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Utilizing a self-colleting Ball Lock nose assembly or a traditional air feed bushing interfacing with a tooling plate, the ATC Pistol Grip Power Feed Drill Motor **limits physical stress on the operator** with its ergonomic design and produces the precise and consistent close tolerance holes demanded by airframe manufacturers.

## FEATURES:

- Ergonomic design
- Air power feed
- Adjustable hydraulic feed control
- Easy set-up
- Simple operation
- Low maintenance
- Adjustable to drill length
- Indexable handle
- 250-6,000 rpm
- Standard 3 jaw chuck
- 1 to 4 inch stroke
- Accepts 21,000 to 25,000 series air feed bushings

| MODEL | HORSEPOWER      | STROKE | CYLINDER |
|-------|-----------------|--------|----------|
| P1    | .45             | 1-1.5  | 120 lb   |
| P3S   | .45             | 1-1.5  | 170 lb   |
| P3B   | .45             | 2-4    | 170 lb   |
| P4S   | .7              | 1-1.5  | 170 lb   |
| P4    | .9              | 1-1.5  | 170 lb   |
| P4B   | .7, .9          | 2-4    | 170 lb   |
| P5    | .7, .9, 1 & 1.5 | 1-4    | 300 lb   |

## OPTIONS:

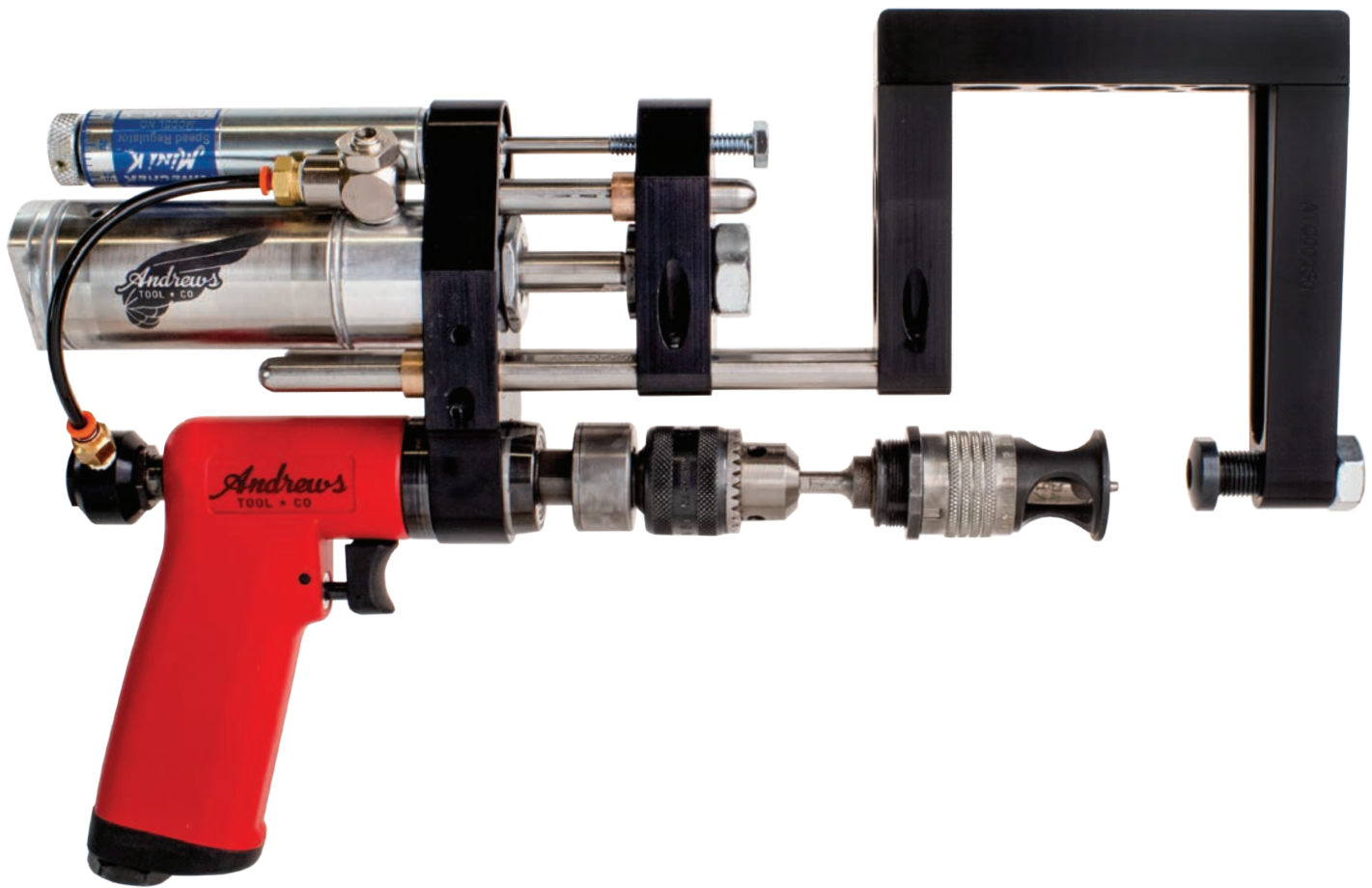
- Adjustable depth control with automatic retract
- Double acting feed cylinder
- Adjustable rapid advance
- ATC Floating Spindle Adapter
- Self-colleting ATC Ball Lock nose
- Indexable ATC Knob Lock nose
- ER collet holder
- Air blast
- Onboard lubricator
- Coolant through swivel adapter
- Micro-peck
- Vacuum attachment

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# POWER FEED COUNTERSINK MOTOR

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## FEATURES:

- Ergonomic design
- Air power feed
- Adjustable hydraulic feed control
- Easy set-up
- Simple operation
- Low maintenance
- Adjustable to material thickness and cage/cutter length
- Indexable handle
- ATC Floating Spindle Adapter
- Adjustable rapid advance control
- 250-6,000 rpm
- Standard 3 jaw chuck
- 1 or 1<sup>1/2</sup> inch stroke
- 1<sup>1/8</sup> to 15 inch reach C frame

## OPTIONS:

- U frame
- Delrin no-mar threaded anvil
- Remove ATC Floating Spindle Adapter and motor can be utilized as a Power Feed Drill

**For more accurate and repeatable countersinks**, the Pistol Grip Power Feed Countersink Motor applies consistent pressure from the back side of the material on the spindle centerline to eliminate material deflection and promote normalization of the cage skirt. Operator fatigue and injury are greatly reduced by the ergonomic, lightweight design.

| MODEL | HORSEPOWER      | STROKE | CYLINDER |
|-------|-----------------|--------|----------|
| P3S   | .45             | 1-1.5  | 170 lb   |
| P3B   | .45             | 2-4    | 170 lb   |
| P4S   | .7              | 1-1.5  | 170 lb   |
| P4    | .9              | 1-1.5  | 170 lb   |
| P4B   | .7, .9          | 2-4    | 170 lb   |
| P5    | .7, .9, 1 & 1.5 | 1-4    | 300 lb   |

# POWER FEED VACUUM DRILL MOTOR



**Ideal for composite drilling**, the ATC Power Feed Vacuum Drill Motor incorporates an integrated venturi vacuum to effectively collect and control composite dust throughout the drill cycle. **ATC-2003 disposable vacuum bags** attach to the rear of the motor and can be easily removed and discarded without reintroducing dust or other contaminants into the atmosphere.



**FEATURES:**

- Ergonomic design
- Air power feed
- Adjustable hydraulic feed control
- Easy set-up
- Simple operation
- Low maintenance
- Venturi vacuum
- Utilizes ATC-2003 disposable vacuum bags or works with existing in-house vacuum systems
- Adjustable to drill length
- Indexable handle
- 2,400, 3,200, 3,800 or 5,200 rpm
- Standard 3 jaw chuck
- 1 to 4 inch stroke
- Accepts 21,000 to 25,000 series air feed bushings

**OPTIONS:**

- .9 hp available for composite/aluminum stacks
- Adjustable depth control with automatic retract
- Double acting feed cylinders
- Adjustable rapid advance
- ATC Floating Spindle Adapter
- Self-Colleting ATC Ball Lock nose
- ER collet holder
- Onboard lubricator
- Coolant through swivel adapter
- Micro-peck

| MODEL | HORSEPOWER | STROKE | CYLINDER    |
|-------|------------|--------|-------------|
| C     | .40        | 1-1.5  | Twin 60 lb  |
| S     | .9         | 1-4    | Twin 170 lb |



# MANUAL DRILL ATTACHMENT

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## FEATURES:

- Ergonomic design
- Easy set-up
- Simple operation
- Low maintenance
- Adjustable to drill length
- Indexable handle
- .45 and .7 hp
- 300-6,000 rpm
- Standard 3 jaw chuck
- Utilizes standard slip fixed renewable drill bushings

## OPTIONS:

- Adjustable hydraulic feed control
- Vacuum attachment

**Producing precision holes utilizing simple drill templates is a snap** with The ATC Manual Drill Attachment. Easily locate holes with the shank of a standard slip fixed renewable bushing. The rigid guide rod design promotes perpendicularity and reduces drill breakage. Spring tension is adjustable for controlling break-out. The stop collars prevent drilling too deep and damaging substructure or other components.

# SURFACE PREPARATION TOOL

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**Surface preparation for Bonded Nut Plates has never been easier or faster.** Save time and effort with the ATC Surface Preparation Tool. Locating buttons align with the pilot hole on the front side of the material. With the pull of the trigger, a sanding disc is powered to the backside, quickly and accurately abrading coatings only where needed.

## FEATURES:

- Ergonomic design
- Air power feed
- Easy set-up
- Simple operation
- Adjustable to material thickness
- Indexable handle
- 500, 1,000, 2,400, 3,300 or 4,500 rpm
- .45 hp
- 1 inch stroke
- 20 lbs applied force on structure through abrasive disc
- 1/4-28 spindle gear
- Adjustable flow control for feed rate adjustment

## OPTIONS:

- Threaded spindle adapters
- Quick change back-up pads
- No-mar Delrin locating buttons
- Combination spindle lock and alignment tool
- Fully adjustable cycle timer
- Custom kits with accessories



# RIGHT ANGLE POWER FEED DRILL MOTOR

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## FEATURES:

- Ergonomic design
- Air power feed
- Easy set-up
- Simple operation
- Low maintenance
- .45, .85 or 1.5 hp
  - 250-6,000 rpm
  - .850 or 1.5 inch stroke
  - 100, 120 or 140 lb force
  - 10-32, 1/4-28 or 9/32-40 threaded spindles
  - Push button or slide feed switch

Designed to drill holes in very tight spaces, the ATC Right Angle Power Feed Drill Motor **provides the force to drill quality holes in hard to reach places.** The gap and reach can be customized to fit your application.

## OPTIONS:

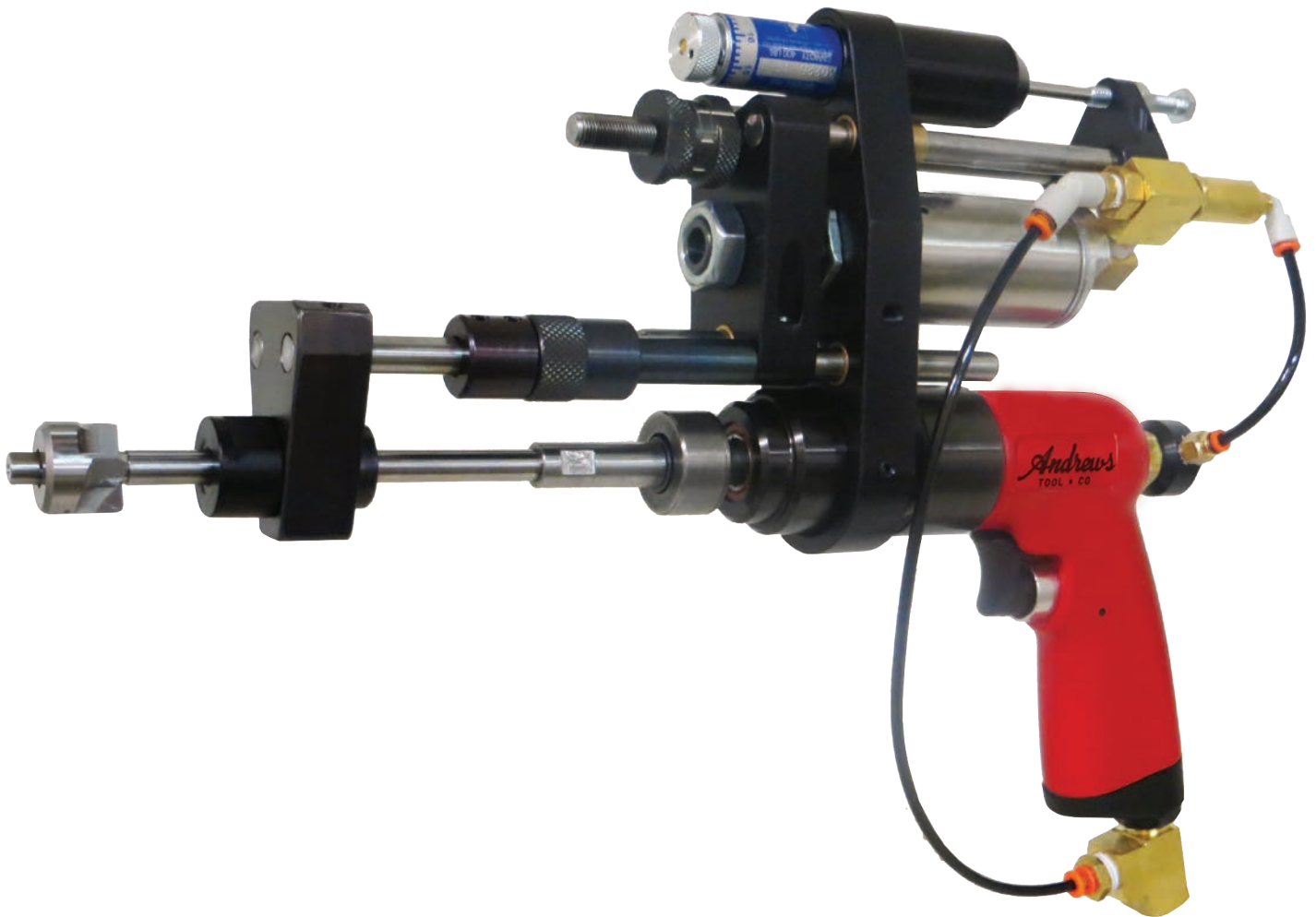
- Adjustable hydraulic feed control
- Heavy duty 90 degree head
- Indexable pancake head
- Extended swing foot
- Snap-in or threaded anvils

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# POWER FEED BACK SPOT FACER

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## FEATURES:

- Ergonomic design
- Air power feed
- Adjustable hydraulic feed control
- Easy set-up
- Simple operation
- Low maintenance
- Adjustable to material thickness
- Indexable handle
- Floating Spindle Adapter
- 250-6,000 rpm
- Microstop depth adjustment

## Never struggle with pulling a reverse counterbore again.

The ATC Power Feed Back Spot Face Motor pushes off the front side of the material, pulling the cutter into the opposite side. A micro-stop controls the depth, creating an accurate countersink, counterbore, or spot face with just one pull of the trigger.

## OPTIONS:

- Quick set adjustment
- No-mar nose bushings built to application
- Threaded spindle adapter
- Threaded bayonet
- ATC Floating Spindle Adapter

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# POWER FEED BACK DRILL

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## FEATURES:

- Ergonomic design
- Air power feed
- Adjustable hydraulic feed control
- Easy set-up
- Simple operation
- Low maintenance
  - Adjustable to drill length and material thickness
  - Indexable handle
  - .45 hp
  - Available in 500-6,000 rpm
  - 1 or 1 1/2 inch stroke

**Drill in hard to reach areas** with the ATC Power Feed L-Foot Drill Motor. This tool is available in back drill, push away, and pull in configurations with offsets available up to 5 inches.

## OPTIONS:

- Adjustable depth control with automatic retract
- Double acting feed cylinder
- Adjustable rapid advance
- Self-colleting ATC Ball Lock nose
- Indexable ATC Knob Lock nose for air feed bushings
- Anvils built to application

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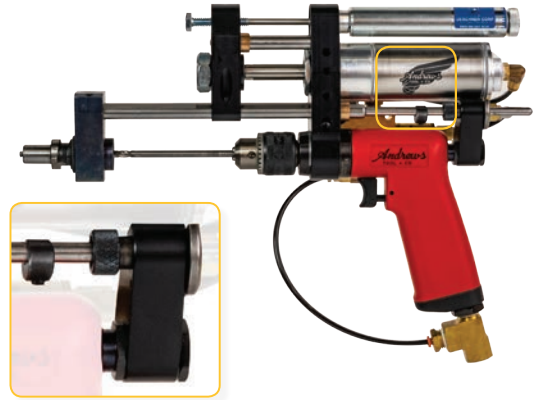


# *Accessories*

# ACCESSORIES

## ADJUSTABLE SHUT-OFF SWITCH

- Reduces drilling time
- Prevents over-drilling and damaging other parts of structure
- Counteracts short-cycling a hole
- Repeatable depth control
- Excellent for drill/reamer (reamers) to ensure the ream is completed every time
- Reliable shut off



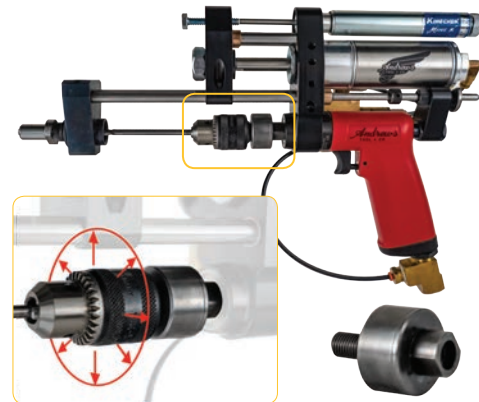
## ATC BALL LOCK

- Locks quickly and securely into liner bushing
- No lock screws, lock strip, or lock liners required on tooling plate
- Nose ODs available to accommodate 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 and 7/8 inch ID liner bushings



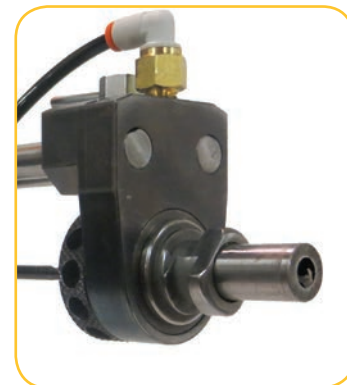
## ATC FLOATING SPINDLE ADAPTER

- Limits runout when drilling through a bushing
- Reduces friction and heat, allowing the drill bit to run smoothly through a drill bushing
- Extends motor bearing, drill bit and drill bushing life
- Coolant through available
- 3/8-24, 1/2-20 and other thread options



## ATC KNOB LOCK

- Great for tight access drilling applications
- Limits the need to rotate motor when locking tool into a drill fixture
- Reduces burden on the operator by orienting bushing collar to tooling plate lock feature quickly and easily
- Accepts standard air feed drill bushings
- 1/16 NPT port for use with coolant bushings



## MINI PIGGYBACK LUBRICATOR

- Portable cutter lubrication system
- Increases cutting tool life
- Improves hole quality
- No electricity required
- Translucent reservoir
- Adjustable output



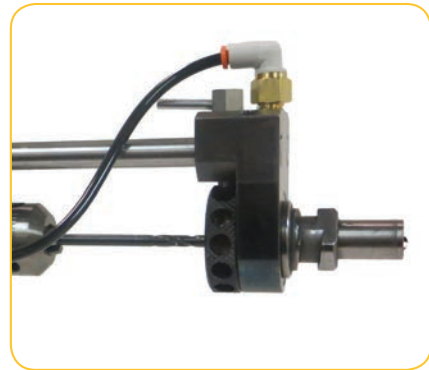
## VACUUM ADAPTER

- Adapts external vacuum to Power Feed or MDA motor
- Reduces chip buildup in tooling plate
- Rotates 270 degrees
- 3/4 inch OD tube



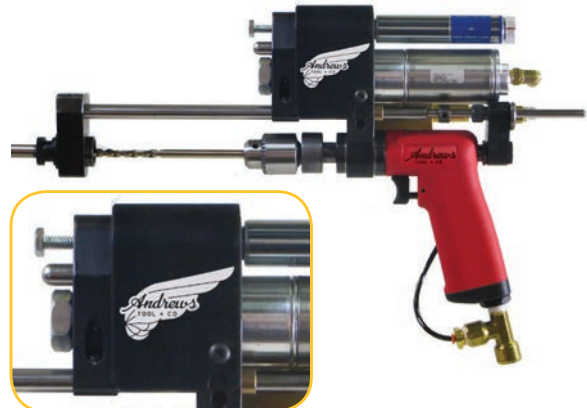
## AIR BLAST

- Helps prevent chips from packing during the drilling cycle
- Improves hole quality
- Clears chips and debris from the end of a coolant bushing



## COVER/GUARD

- Additional safety during automatic drilling cycle
- Protects moving parts





# ACCESSORIES

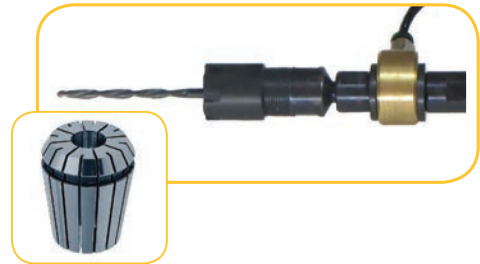
## ON/OFF SWITCH

- Air flow shut off switch
- Great for longer drilling cycles
- Attaches at air inlet on motor



## ER COLLET WITH COOLANT THROUGH SWIVEL

- Threaded collet body adapter
- ER 16 collet range: 1/32 to 13/32
- ER 20 collet range: 1/32 to 1/2
- Coolant nut
- Swivel spindle adapter accepts 1/16 NPT fittings



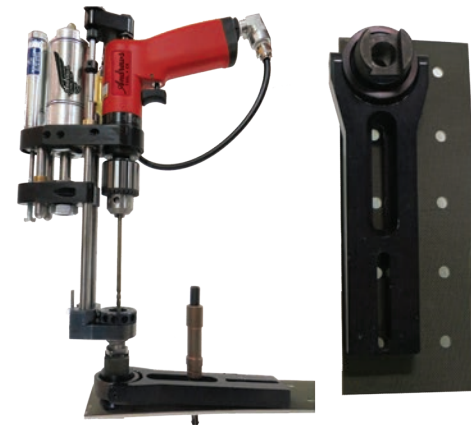
## DEAD HANDLE

- Available for pistol grip motors
- Aids in the handling of larger, heavier models



## ATC CONTOUR JIG

- Easily attaches to material with a cleco or a bolt in an adjacent existing hole
- Gimble foot enables drill bushing to gain normality and maintain drill perpendicularity to the surface of the material being drilled
- 21,000 series taper lock, 22,000 series taper lock, ATC Ball Lock or slip fixed renewable configurations



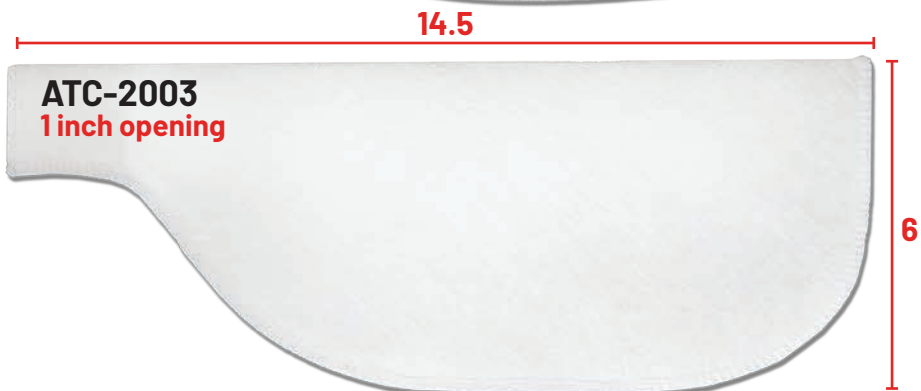
## ATC QUICK CHANGE CHUCK ADAPTER

- Multiple chuck adapters can be used with a single tool adapter to swap cutters quickly without fighting a chuck key or the expense of multiple motors
- Chuck adapter locks into the tool adapter easily with just a 1/8 turn
- Tool adapter mounts to 3/8-24 thread spindles
- Chuck adapter accepts 3/8-24 thread chucks



# DISPOSABLE VACUUM BAGS

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## DISPOSABLE VACUUM BAGS

- Advanced material collects and controls carbon fiber dust and chips
- **ATC-2002:** fits 1 inch diameter tubes for operating in tight quarters
- **ATC-2003:** fits 1 inch diameter tubes and smaller - standard bag
- **ATC-2003T:** fits 1 inch diameter tubes and smaller - standard heat resistant bag
  - **ATC-2004:** fits 1 5/16 inch diameter tubes and smaller
  - **ATC-2005:** fits 1 1/2 inch diameter tubes and smaller
- Special sizes available upon request

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**ANDREWS TOOL COMPANY  
2026 W PIONEER PKWY STE B-10  
ARLINGTON, TX 76013**

**ANDREWSTOOL.COM  
SALES@ANDREWSTOOL.COM  
817.274.7418  
FAX 817.860.9658**

**MARCH 2019**