Universal Tool now offers a wider selection of air tools for industrial and MRO applications. Our headquarters and 42,000 square foot assembly and distribution facility is located in Jupiter, Florida. The Universal Tool U.S. product offering is manufactured at our sister division factory, in Pennsylvania. Other products carrying the UT nameplate are manufactured at partner factories in Asia, where our concepts of quality and reliability are shared.

The Universal Tool nameplate is a symbol for quality and workmanship with innovative products featuring the latest advances in air tool design.

At Universal Tool, performance proven products and people are something you can trust today and tomorrow.
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**Impact Wrench Mechanisms**

**Twin Hammer Design**
Two hammers strike balanced blows for more torque than other designs. The simple design offers easy low cost maintenance, and good performance on soft and hard joints. The twin hammer design is less sensitive to air pressure, and ideal for use where air supply fluctuations are prevalent.

**Two Jaw Clutch**
The highest energy per blow for maximum performance and highest torque to weight ratio. Best choice for steel erection and heavy MRO and excellent for both soft and hard joints.

**Ball and Cam Clutch**
Converts air motor torque into powerful rotary blows, a time tested design for maximum reliability, and best for very high torque soft joints.

**DynaPact® Clutch**
This fast high energy clutch offers low vibration and fast run down speed, and is ideal for lighter MRO use.

**Single Hammer**
This simple design offers easy low cost maintenance and reliability; best suited for lower torque applications.

**Features:**
- The UT line of super duty, heavy duty and standard duty impact wrenches is the widest range of true industrial impact wrenches available. With a selection of hammer mechanisms, drive sizes from 3/8" to 2-1/2", and torque ranges from 25 ft./lb. to 50,000 ft./lb., our line of impact wrenches are up to any job. Our focus on quality and dependability ensures your UT impact wrench will provide constant performance and a long service life.
- Handle design, configuration and weight choices ensure great balance and provide the best operator comfort possible.
- We use only the highest grade materials, forgings, and heat treatment processes, to meet customer expectations for quality and dependability, in the toughest applications.
- With a wide range of choices and torque capability the UT line of impact wrenches covers the needs for heavy assembly processes, off road vehicle maintenance, steel erection, heavy plant maintenance, petrochemical as well as intermittent MRO uses.
3/8" IMPACT WRENCHES

**UT2025R 3/8" Butterfly Impact Wrench**
- Reliable single hammer-70 ft.lb. max. torque
- Paddle throttle for instant direction changes
- Swivel air inlet and regulator for flexibility
- Built-in multi position regulator

**Best for:** MRO and general repair

**UT8025R-1 3/8" Butterfly Impact Wrench**
- Reliable single hammer-75 ft.lb. max. torque
- Paddle throttle for instant direction changes
- Swivel air inlet and regulator for flexibility
- Built-in multi position regulator & protective cover
- Precision engineered for added reliability

**Best for:** Rugged MRO and vehicle service

**UT8027R 3/8" Butterfly Impact Wrench**
- Reliable, hard-hitting jumbo hammer-95 ft-lb max. torque
- Low weight composite paddle style throttle for instant direction changes
- Built-in power regulator for control
- Compact one handed design with built-in swivel air inlet

**Best for:** Rugged MRO and vehicle service

**UT8030R 3/8" Pistol Impact Wrench**
- Reliable single hammer-75 ft.lb. max. torque
- Push forward/reverse for single hand operation
- Rubber scuff guard protects work piece and tool nose
- Built-in multi position regulator

**Best for:** MRO and general repair

**UT8070R-1 / UT8070P-1 3/8" Pistol Impact Wrench**
- Hard hitting twin hammer-300 ft.lb. max. torque
- Combined reverse and power regulator
- Ergonomic “Softouch” coating and contoured grip
- Steel hammer case for added durability

**Best for:** Assembly and heavy MRO

---

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<th>Model</th>
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<th>Working Trq (nm)</th>
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<th>Max Trq (nm)</th>
<th>Speed (rpm)</th>
<th>Anvil</th>
<th>Socket Retainer</th>
<th>Exhaust</th>
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<th>Weight (kg)</th>
<th>Length (in.)</th>
<th>Length (mm)</th>
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Recommended Air Pressure of 90 psi - 6.2 bar
UT8065R / UT8065P  
3/8” High Performance Industrial Impact Wrench
- Refined design twin hammer and biased motor provides high torque
- Low weight composite housing
- Ergonomic trigger design with feather control
- Push button forward/reverse for instant change in direction
- Four position power management switch conveniently located in back cap
- Titanium finish hammer case
- Built-in side impact buffers
- Over-mold ergonomic grip
*Best for: Assembly and heavy MRO*

UT2110R-1  
1/2” Impact Wrench
- Reliable single hammer-250 ft.lbs. max. torque
- Push button forward/reverse for single hand operation
- Rubber scuff guard protects work piece and tool nose
- Built-in multi position power regulator
*Best for: MRO and vehicle service*

UT2147R-1  
1/2” Impact Wrench
- Smooth-fast Dynapact® clutch-500 ft.lbs. max. torque
- Combined reverse and power regulator
- Ergonomic contoured grip
- Steel hammer case for added durability
*Best for: Rugged MRO and vehicle service*

UT8120R  
1/2” Compact Impact Wrench
- Hard hitting twin hammer-500 ft.lbs. max. torque
- Push button forward/reverse for single hand operation
- Ergonomic composite housing and grip for lower weight
- Magnesium hammer case for ultimate weight reduction
- Weighs only 3.2 lbs. for reduced operator fatigue
*Best for: Assembly and tight access MRO*

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<th>Working Torq (mm)</th>
<th>Max Torq (ft-lb.)</th>
<th>Max Torq (mm)</th>
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<th>Avail.</th>
<th>Socket Retainer</th>
<th>Exhaust</th>
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Recommended Air Pressure of 90 psi - 6.2 bar
3/8", 1/2" AND 3/4" IMPACT WRENCHES

**UT8150R-2 / UT8150P-2**
1/2" Impact Wrench
- Hard hitting twin hammer-550 ft.lb. max. torque
- Combined reverse and power regulator
- Ergonomic "Softouch" coating and contoured grip
- Steel hammer case for added durability
*Best for: Assembly and heavy MRO*

**UT8165R / UT8165P**
1/2" High Performance Industrial Impact Wrench
- Refined design twin hammer and biased motor provides high torque
- Low weight composite housing
- Ergonomic trigger design with feather control
- Push button forward/reverse for instant change in direction
- Four position power management switch conveniently located in back cap
- Titanium finish hammer case
- Built-in side impact buffers
- Over-mold ergonomic grip
*Best for: Assembly and heavy MRO*

**UT8340C-2**
3/4" Impact Wrench
- Hard hitting twin hammer-1300 ft.lb. max. torque
- Combined reverse and power regulator switch
- Ergonomic "Softouch" coating
- Steel hammer case for added durability
*Best for: MRO and vehicle service*

**UT8350C**
3/4" Impact Wrench
- Hard hitting twin hammer-1400 ft.lb. max. torque
- Three piece housing design eases maintenance
- Reliable bolt-on assist handle
- Push button reverse for single hand operation
*Best for: Heavy plant and vehicle service*

---

**Model** | **Working Trq (ft-lb.)** | **Max. Trq (nm)** | **Max. Trq (nm)** | **Speed (rpm)** | **Socket Retainer** | **Exhaust (lb.)** | **Weight (kg)** | **Length (mm)** | **Air Inlet (in.)** | **Length (cm)** | **Air Cons (cfm)** | **Average (cfm)**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
UT8150R-2 | 105-360 | 142-488 | 550 | 7,000 | 1/2" Square | Friction Ring | Handle | 5.80 | 2.60 | 7.25 | 184 | 1/4" | 3/8 | 7.30
UT8150P-2 | 105-360 | 142-488 | 550 | 7,000 | 1/2" Square | Spring Pin | Handle | 5.80 | 2.60 | 7.25 | 184 | 1/4" | 3/8 | 7.30
UT8165R | 250-800 | 339-1085 | 800 | 9,000 | 1/2" Square | Friction Ring | Handle | 4.40 | 2.00 | 7.48 | 190 | 1/4" | 3/8 | 8.00
UT8165P | 250-800 | 339-1085 | 800 | 9,000 | 1/2" Square | Spring Pin | Handle | 4.40 | 2.00 | 7.48 | 190 | 1/4" | 3/8 | 8.00
UT8340C-2 | 207-715 | 281-970 | 1,300 | 6,000 | 3/4" Square | Ring and Through | Handle | 11.00 | 5.00 | 8.50 | 216 | 3/8" | 1/2 | 10.00

Recommended Air Pressure of 90 psi - 6.2 bar
**Universal Tool**

**UT8365C**

3/4” High Performance Industrial Impact Wrench

- Refined design twin hammer and biased motor provides high torque
- Low weight composite housing
- Ergonomic trigger design with feather control
- Push button forward/reverse for instant change in direction
- Four position power management switch conveniently located in back cap
- Titanium finish hammer case
- Built-in side impact buffers
- Over-mold ergonomic grip

*Best for: Assembly and heavy MRO*

---

**UT7520C-75 / UT7520C-1**

3/4” and 1” Impact Wrench

- Hard hitting twin hammer-1100 ft.lb. max. torque
- Pressure feed hammer lubrication for added reliability
- Three piece housing design eases maintenance
- Extra heavy duty steel hammer case for ultimate durability
- Built-in exhaust silencer system for noise control

*Best for: Heavy plant and vehicle service*

---

**UT7560C-75 / UT7560C-1**

3/4” and 1” Impact Wrench

- High energy two jaw clutch-1025 ft.lb. max torque
- Pressure feed hammer lubrication for added reliability
- Three piece housing design eases maintenance
- Extra heavy duty steel hammer case for ultimate durability
- Built-in exhaust silencer system for noise control

*Best for: Heavy plant and vehicle service*

---

**UT8470C**

1” Impact Wrench

- Hard hitting twin hammer-1900 ft.lb. max. torque
- Three piece housing design eases maintenance
- Combined reverse and power regulator switch
- Steel hammer case increases reliability

*Best for: Heavy plant and vehicle service*

---

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<th>UT7520C-75</th>
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**Recommended Air Pressure of 90 psi - 6.2 bar**
3/4" & 1" IMPACT WRENCHES

UT8475C 1" Impact Wrench
- Hard hitting twin hammer design
- 2,100 ft/lbs maximum torque
- Recessed combined power management
- Low-weight impact resistant housing
- Combined friction ring/through hole retaining system

Best For: Heavy plant & vehicle maintenance

UT8641C / UT8641S
1" Square Impact Wrench
1" Spline Drive Impact Wrench
- Two jaw hammer mechanism - 2800 ft.lb. max torque
- Three piece housing design eases maintenance
- Extra heavy duty steel hammer case for ultimate durability
- Combined reverse and power regulator switch

Best for: Heavy plant, heavy MRO and off road vehicle

UT1040C / UT1040S
1" Square Impact Wrench
1" Spline Drive Impact Wrench
- Hard hitting twin hammer-2000 ft.lb. max. torque
- Pressure feed hammer lubrication for added reliability
- Three piece housing design eases maintenance
- Extra heavy duty steel hammer case for ultimate durability
- Built-in exhaust silencer system for noise control

Best for: Heavy plant, heavy MRO and off road vehicle service

<table>
<thead>
<tr>
<th>Model</th>
<th>Working Trq (ft-lb.)</th>
<th>Working Trq (nm)</th>
<th>Max Trq (ft-lb.)</th>
<th>Max Trq (nm)</th>
<th>Speed (rpm)</th>
<th>Anvil</th>
<th>Socket Retainer</th>
<th>Exhaust</th>
<th>Weight (lbs)</th>
<th>Weight (kg)</th>
<th>Length (in.)</th>
<th>Length (mm)</th>
<th>Air Inlet</th>
<th>Hose (I.D. in.)</th>
<th>Air Cons (cfm)</th>
<th>Average (cfm)</th>
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<tr>
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<td>678-2237</td>
<td>2,100</td>
<td>2,848</td>
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<td>Bottom</td>
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<tr>
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<td>678-2237</td>
<td>2,800</td>
<td>3,796</td>
<td>4,300</td>
<td>1&quot; Square</td>
<td>Through Hole</td>
<td>Top</td>
<td>23.30</td>
<td>10.60</td>
<td>14.30</td>
<td>363</td>
<td>3/4</td>
<td>25.2</td>
<td>6.30</td>
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<tr>
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<td>2,800</td>
<td>3,796</td>
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<td>#5 Spline</td>
<td>Button</td>
<td>Top</td>
<td>23.30</td>
<td>10.60</td>
<td>14.30</td>
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<td>Front</td>
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<td>10.00</td>
<td>12.40</td>
<td>315</td>
<td>1/2</td>
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<td>14.50</td>
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Recommended Air Pressure of 90 psi - 6.2 bar
UT1011C / UT1011S
1” Square Impact Wrench
1” Spline Drive Impact Wrench
• High energy two jaw clutch-2800 ft.lb. max. torque
• Pressure feed hammer lubrication for added reliability
• Three piece housing design eases maintenance
• Extra heavy duty steel hammer case for ultimate durability
• Built-in exhaust silencer system for noise control
• UT1011S-OT: Features outside trigger

Best for: Heavy steel erection, and plant maintenance

UT1550C / UT1550S
1-1/2” Square Impact Wrench
1-1/2” Spline Drive Impact Wrench
• Hard hitting twin hammer-3000 ft.lb. max. torque
• Pressure feed hammer lubrication for added reliability
• Three piece housing design eases maintenance
• Extra heavy duty steel hammer case for ultimate durability
• Built-in exhaust silencer system for noise control

Best for: Heavy plant, heavy MRO and off road vehicle service with high torque and hard joints

UT1520C / UT1520S
1-1/2” Impact Wrench and
1-1/2” Spline Drive Impact Wrench
• High energy two jaw clutch-3500 ft.lb. max torque
• Pressure feed hammer lubrication for added reliability
• Three piece housing design eases maintenance
• Extra heavy duty steel hammer case for ultimate durability
• Built-in exhaust silencer system for noise control

Best for: Heavy plant, heavy MRO and off road vehicle service

<table>
<thead>
<tr>
<th>Model</th>
<th>Working Trq (ft-lb.)</th>
<th>Working Trq (mm)</th>
<th>Max Trq (ft-lb.)</th>
<th>Max Trq (mm)</th>
<th>Speed (rpm)</th>
<th>Avail</th>
<th>Socket Retainer</th>
<th>Exhaust</th>
<th>Weight (lb.)</th>
<th>Weight (kg)</th>
<th>Length (in.)</th>
<th>Length (mm)</th>
<th>Air Inlet (npt)</th>
<th>Hose (I.D. in.)</th>
<th>Air Cons (cfm)</th>
<th>Average (cfm)</th>
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<td>708-2443</td>
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<td>UT1011S</td>
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<td>2,800</td>
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<td>3,500</td>
<td># 5 Spline</td>
<td>Button</td>
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<td>10.20</td>
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<td>3/4</td>
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<tr>
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<td>984-3393</td>
<td>3,000</td>
<td>4,061</td>
<td>3,750</td>
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<td>Button</td>
<td>Front</td>
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<td>15.00</td>
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<td>368</td>
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<td>3/4</td>
<td>70</td>
<td>17.50</td>
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<tr>
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<td>984-3393</td>
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<td>4,061</td>
<td>3,750</td>
<td>1-1/2” Square</td>
<td>Through Hole</td>
<td>Front</td>
<td>33.00</td>
<td>15.00</td>
<td>14.50</td>
<td>368</td>
<td>1/2”</td>
<td>3/4</td>
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<tr>
<td>UT1520C</td>
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<td>984-3393</td>
<td>3,500</td>
<td>4,738</td>
<td>4,500</td>
<td>1-1/2” Square</td>
<td>Through Hole</td>
<td>Front</td>
<td>33.70</td>
<td>15.30</td>
<td>14.70</td>
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<td>3/4</td>
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<tr>
<td>UT1520S</td>
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<td>984-3393</td>
<td>3,500</td>
<td>4,738</td>
<td>4,500</td>
<td># 5 Spline</td>
<td>Button</td>
<td>Front</td>
<td>33.70</td>
<td>15.30</td>
<td>14.70</td>
<td>373</td>
<td>1/2”</td>
<td>3/4</td>
<td>60</td>
<td>15.00</td>
</tr>
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</table>

Recommended Air Pressure of 90 psi = 6.2 bar
**1", 1-1/2" & 2-1/2" IMPACT WRENCHES**

**UT1578C**
1-1/2" Impact Wrench
- Ultra reliable precision ball and cam mechanism
- 10,000 ft.lb. max. torque
- Time tested design for ultimate durability
- Designed for vertical suspension
- Through hole anvil for positive socket retention
*Best for: Heavy duty very high torque applications*

**UT2588**
2-1/2" Impact Wrench
- Ultra reliable precision ball and cam mechanism
- 50,000 ft.lb. max. torque
- Time tested design for ultimate durability
- Designed for vertical suspension
- Second operator assist handle
- Through hole anvil for positive socket retention
*Best for: Ultimate duty very high torque applications*

---

### Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Working Torq (ft-lb.)</th>
<th>Working Torq (nm)</th>
<th>Max Torq (ft-lb.)</th>
<th>Max Torq (nm)</th>
<th>Speed (rpm)</th>
<th>Torq Retainer</th>
<th>Exhaust</th>
<th>Weight (lbs.)</th>
<th>Weight (kg)</th>
<th>Length (in.)</th>
<th>Length (mm)</th>
<th>Air Inlet (npt)</th>
<th>Hose I.D. (in.)</th>
<th>Air Cons. (cfm)</th>
<th>Average (cfm)</th>
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<td>2,164-7,464</td>
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<td>13,538</td>
<td>850</td>
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<td>Side</td>
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<td>UT2588</td>
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<td>9,838-33,925</td>
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<td>150</td>
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</table>

Recommended Air Pressure of 90 psi - 6.2 bar
Universal Tool offers a complete line of air hammers, scalers and chipping hammers. We have also developed new products to meet the requirements of today’s changing market. One such product is our patented line of recoilless needle scalers that provide users with ergonomic benefits unsurpassed in the air tool industry.
NEEDLE SCALERS

UT8633
Compact Needle Scaler
• Low weight
• Durable steel housing
• Low air consumption for use with limited air supply or multiple tool applications
Best for: Removal of rust, paint and scale on flat or irregular surfaces

UT8635
Straight Needle Scaler
• J-slot adjustment for additional needle exposure
• All steel construction for durability
• Converts to B1 style chisel scaler
• Low air consumption for use with limited air supply or multiple tool applications
Best for: Removal of rust, paint and scale on flat or irregular surfaces

UT9911
Heavy Duty Low Vibration Straight Needle Scaler
• Only 3m/s² vibration level to reduce operator fatigue
• All steel construction for durability
• Low air consumption for use with limited air supply or multiple tool applications
Best for: Removal of rust, paint and scale on flat or irregular surfaces

UT9912
Straight Recoiless Needle Scaler
• Only 3m/s² vibration level to reduce operator fatigue
• All steel construction for durability
• Low air consumption for use with limited air supply or multiple tool applications
Best for: Removal of rust, paint and scale on flat or irregular surfaces

UT9914 / UT9914-2
Pistol Grip Recoiless Needle Scaler
• Only 3.5m/s² vibration level to reduce operator fatigue
• Supplied with 1/8” or 2mm needles
• High blow frequency for increased production
• Non-metallic vacuum shroud available
• Low air consumption for use with limited air supply or multiple tool applications
Best for: Surface preparation and lead paint abatement

Recommended Air Pressure of 90 psi - 6.2 bar

<table>
<thead>
<tr>
<th>Model</th>
<th>Needle Capacity</th>
<th>Blow Per Minute</th>
<th>Bore (in)</th>
<th>Stroke (in)</th>
<th>Weight (lb)</th>
<th>Weight (kg)</th>
<th>Length (in)</th>
<th>Length (mm)</th>
<th>Air Inlet (npt)</th>
<th>Air Cons. (cfm)</th>
<th>Avg. Air Cons. (cfm)</th>
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<tr>
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<td>4,800</td>
<td>1/2</td>
<td>1-1/4</td>
<td>2.50</td>
<td>1.10</td>
<td>11.50</td>
<td>292</td>
<td>1/4”</td>
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<td>4 1.50</td>
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<td>UT8635</td>
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<td>4,600</td>
<td>1</td>
<td>1-1/8</td>
<td>6.00</td>
<td>2.70</td>
<td>15.00</td>
<td>381</td>
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<td>12 3.00</td>
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<tr>
<td>UT9911</td>
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<td>7.70</td>
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<td>1/4”</td>
<td>3/8</td>
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<td>4.30</td>
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<td>1/4”</td>
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<td>5.80</td>
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<td>11.88</td>
<td>302</td>
<td>1/4”</td>
<td>3/8</td>
<td>12 3.00</td>
</tr>
</tbody>
</table>

See replacement needles and accessories on page 70
**UT8651H / UT8651R**
1” Stroke Chipping Hammer
- Crisp plate valve for extra hard hitting and control
- Ergonomically advanced design for operator comfort
- Heat treated precision cylinder and piston for long life
- Rugged four bolt construction for heavy duty use
- 7/8”-24 Inlet bushing available upon request
*Best for: Foundry, plant maintenance and general contractor work*

**UT8652H / UT8652R**
2” Stroke Chipping Hammer
- Crisp plate valve for extra hard hitting and control
- Ergonomically advanced design for operator comfort
- Heat treated precision cylinder and piston for long life
- Rugged four bolt construction for heavy duty use
- 7/8”-24 Inlet bushing available upon request
*Best for: Foundry, plant maintenance and general contractor work*

**UT8653H / UT8653R**
3” Stroke Chipping Hammer
- Crisp plate valve for extra hard hitting and control
- Ergonomically advanced design for operator comfort
- Heat treated precision cylinder and piston for long life
- Rugged four bolt construction for heavy duty use
- 7/8”-24 Inlet bushing available upon request
*Best for: Foundry, plant maintenance and general contractor work*

**UT8654H / UT8654R**
4” Stroke Chipping Hammer
- Crisp plate valve for extra hard hitting and control
- Ergonomically advanced design for operator comfort
- Heat treated precision cylinder and piston for long life
- Rugged four bolt construction for heavy duty use
- 7/8”-24 Inlet bushing available upon request
*Best for: Foundry, plant maintenance and general contractor work*

---

**Model | Retainer | Housing Material | Bushing | Blows Per Minute | Diameter | Stroke | Weight (lbs) | Length (in) | Length (mm) | Air Inlet (npt) | Hose ID (in) | Avg. Air Cons. (cfm)**
---|---|---|---|---|---|---|---|---|---|---|---|---|
UT8651H | Oval Collar | Steel | .580 hex | 2,450 | 1-1/8 | 2.50 | 16.00 | 7.30 | 12.00 | 305 | 3/8” | 24 | 6.00 |
UT8651R | Oval Collar | Steel | .680 round | 2,450 | 1-1/8 | 2.50 | 16.00 | 7.30 | 12.00 | 305 | 3/8” | 24 | 6.00 |
UT8652H | Oval Collar | Steel | .580 hex | 2,300 | 1-1/8 | 3.00 | 17.00 | 7.70 | 14.00 | 356 | 3/8” | 26 | 6.50 |
UT8652R | Oval Collar | Steel | .680 round | 2,300 | 1-1/8 | 3.00 | 17.00 | 7.70 | 14.00 | 356 | 3/8” | 26 | 6.50 |
UT8653H | Oval Collar | Steel | .580 hex | 2,100 | 1-1/8 | 3.75 | 18.50 | 8.40 | 15.25 | 387 | 3/8” | 30 | 7.50 |
UT8653R | Oval Collar | Steel | .680 round | 2,100 | 1-1/8 | 3.75 | 18.50 | 8.40 | 15.25 | 387 | 3/8” | 30 | 7.50 |
UT8654H | Oval Collar | Steel | .580 hex | 1,700 | 1-1/8 | 4.25 | 19.50 | 8.90 | 16.50 | 419 | 3/8” | 33 | 8.30 |
UT8654R | Oval Collar | Steel | .680 round | 1,700 | 1-1/8 | 4.25 | 19.50 | 8.90 | 16.50 | 419 | 3/8” | 33 | 8.30 |

Recommended Air Pressure of 90 psi - 6.2 bar

See accessories on pages 67, 70 and 71
AIR HAMMERS & BENCH RAMMERS

UT8663 / UT8664
Aero Riveting Hammer
- Precision engineered spool valve for precision control on the job
- Triple heat treated alloy steel cylinder and piston
- Powder coated acrylic coating for insulation
- All metal trigger and throttle valve for durability

Best for: Closing rivets in air frame assembly

UT8666
Bench Rammer
- High power to weight ratio
- Heat treated cylinder and piston for durability
- Threaded retainer for quick and easy butt changes
- Easily operated and guided
- 2.5" butt

Best for: Compacting sand, soil and other fibers materials

UT9925
Pistol Recoilless Air Hammer
- Ergonomically advanced low vibration and high frequency design reduces fatigue
- Precision engineered to reduce air consumption and increase reliability
- Compact design for increased access and comfort
- 0.401" shank

Best for: Medium duty chipping and sheet metal cutting

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<th>Model</th>
<th>Retainer</th>
<th>Hosing Material</th>
<th>Bore (in)</th>
<th>Blows Per Minute</th>
<th>Stroke (in)</th>
<th>Weight (lb)</th>
<th>Weight (kg)</th>
<th>Length (in)</th>
<th>Length (mm)</th>
<th>Air-Inlet (npt)</th>
<th>Hose ID (in)</th>
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<th>Avg. Air Cons. (cfm)</th>
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<td>16</td>
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</table>

Recommended Air Pressure of 90 psi - 6.2 bar

See accessories on pages 69 and 71
UT8662-TC
Aero Riveting Hammer (2X)
- Tungsten carbide piston provides more powerful blows... smaller tool for the same application
- Contoured ergonomic handle design
- Precision engineered spool valve for precision control on the job
- Triple heat treated alloy steel cylinder
- All metal trigger and throttle valve for durability

Best for: Closing rivets in air frame assembly

UT8663-TC
Aero Riveting Hammer (3X)
- Tungsten carbide piston provides more powerful blows... smaller tool for the same application
- Contoured ergonomic handle design
- Precision engineered spool valve for precision control on the job
- Triple heat treated alloy steel cylinder
- All metal trigger and throttle valve for durability

Best for: Closing rivets in air frame assembly

UT8664-TC
Aero Riveting Hammer (4X)
- Tungsten carbide piston provides more powerful blows... smaller tool for the same application
- Contoured ergonomic handle design
- Precision engineered spool valve for precision control on the job
- Triple heat treated alloy steel cylinder
- All metal trigger and throttle valve for durability

Best for: Closing rivets in air frame assembly

UT8665-TC
Aero Riveting Hammer (5X)
- Tungsten carbide piston provides more powerful blows... smaller tool for the same application
- Contoured ergonomic handle design
- Precision engineered spool valve for precision control on the job
- Triple heat treated alloy steel cylinder
- All metal trigger and throttle valve for durability

Best for: Closing rivets in air frame assembly

<table>
<thead>
<tr>
<th>Model #</th>
<th>Retainer</th>
<th>Housing Material</th>
<th>Bushing (in)</th>
<th>Blows Per Minute</th>
<th>Bore (in)</th>
<th>Stroke (in)</th>
<th>Capacity Aluminum Steel (in)</th>
<th>Weight (lb)</th>
<th>Weight (kg)</th>
<th>Length (in)</th>
<th>Length (mm)</th>
<th>Air Inlet (npt)</th>
<th>Rec. Hose (id. in)</th>
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Recommended Air Pressure of 90 psi - 6.2 bar

See accessories on page 69, 71
**RIVETING HAMMERS, AIR HAMMERS & CHISEL SCALERS**

**UT8645-1 / UT8646-1 Pistol Air Hammer**
- Impact resistant composite handle for reduced weight
- Reliable flip valve design
- Button style trigger for increased control
- 0.401" shank

*Best for: Light chipping and sheet metal cutting*

**UT8674-1 Pistol Air Hammer**
- 3/4" piston, 2-11/16" stroke and 0.498" shank for extra heavy duty work
- Positive action trigger and valve increases control
- Precision engineered, heat treated alloy steel cylinder and piston for added reliability and low air consumption

*Best for: Heavy chipping, bolt cutting and pin driving*

**UT8603 Triple Head Scaling Hammer**
- Heat treated precision cylinder and piston for long life
- Valveless design increases reliability
- Hard wearing replaceable tungsten carbide inserts in each piston
- Handle can be re-positioned to suit application

*Best for: Removal of scale, other residues and concrete scabbling*

**UT8630 Straight Chisel Scaler**
- Heat treated precision cylinder, piston and retainer for long life
- Rugged all steel construction for added reliability
- Compact design for increased access and comfort
- B1- 1/2" square shank
- Can be converted to needle scaler with Part # UTA88398

*Best for: Removal of scale, weld spatter and other residues in shipyards, foundry and fabrication shops*

**UT9922 Straight Recoiless Chisel Scaler**
- Only 2 m/s2 vibration level to reduce operator fatigue
- Rugged all steel construction for added reliability
- Compact design for increased access and comfort
- 3 sizes of carbide chisels available

*Best for: Removal of scale, weld spatter and other residues in shipyards, foundry and fabrication shops*

---

**Model** | **Retainer** | **Material** | **Bore (in)** | **Strokes Per Minute** | **Cylinder** | **Piston** | **Bore (in)** | **Valveless** | **Shank** | **Air Inlet (npt)** | **Hose ID (in)** | **Air Cons. (cfm)** | **Avg. Air Cons. (cfm)**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
UT8645-1 | Spring | Composite | 0.401 | 2,600 | 3/4 | 2-5/8 | 3.00 | 1.40 | 6.50 | 1.10 | 6.00 | 16 | 4.00
UT8646-1 | Spring | Composite | 0.401 | 3,700 | 3/4 | 2-1/2 | 2.50 | 1.10 | 6.00 | 1.10 | 6.00 | 16 | 4.00
UT8674-1 | Spring | Aluminum | 0.498 | 1,700 | 3/4 | 2-11/16 | 4.60 | 1.90 | 7.80 | 1.90 | 7.80 | 16 | 4.00
UT8603 | NA | Aluminum | 3 Short Steel | 3,800 | NA | 7/8 | 9.20 | 4.20 | 15.38 | 3.80 | 22.00 | 5.50
UT8630 | B1 | Steel | 1/2 Sq. | 4,600 | 1 | 1-1/8 | 4.50 | 2.00 | 9.50 | 2.00 | 9.50 | 16 | 4.00
UT9922 | Collet | Steel | 3/8 Sq. | 9,000 | 3/4 | 1/4 | 3.25 | 1.50 | 8.25 | 210 | 1/4 | 3/8 | 12.00 | 3.00

Recommended Air Pressure of 90 psi - 6.2 bar

See accessories on page 69, 70, 71.
UT9935 Recoilless Air Scribe
• Only 1 m/s² vibration for operator comfort and control
• Patented recoilless design provides low vibration and high frequency to reduce operator fatigue
• Complete with carbide stylus and air hose
• Lubrication free
Best for: Metal component identification

UT8630LI Long Reach Chisel Scaler
• Heat treated precision cylinder, piston and retainer for long life
• Rugged all steel construction for added reliability
• 64" Length is ideal for floor and high level work
• B1 - 1/2" square shank
• Can be converted to needle scaler with Part # UTA88398
Best for: Ideal for floors and high reach areas, for scale, residue and tile removal

UT8617 Scribe/Engraving Chisel
• Provides sufficient power for engraving and mini chipping applications
• High precision throttle ensures critical control
• Complete with carbide stylus and air hose
Best for: Precision engraving of metals, stone and marble

UT8617K Scribe/Engraving Chisel Kit
• Provides sufficient power for engraving and mini chipping applications
• High precision throttle ensures critical control
• Complete with stylus, flat, round and chisel blanks, air hose and filter connection
Best for: Precision engraving of metals, stone and marble
**CHISEL SCALERS, AIR SAWS & AIR FILES**

**UT9930**  
Recoilless Reciprocating Saw  
- Patented ergonomically advanced low vibration and low frequency design reduces fatigue  
- Handle rotates 360° for ultimate access and comfort  
- Safety lock-off throttle  
*Best for: Cutting sheet metals, composites and wood*

**UT8862**  
Air File  
- 1/4" Stroke for fast material removal  
- Rear exhaust keeps air away from cuttings  
- Compact design for increased access and comfort  
*Best for: Filing of metal*

**UT9940**  
Recoilless File  
- Ergonomically advanced low vibration and low frequency design reduces fatigue  
- Handle rotates 360° for ultimate access and comfort  
- 1/4" Stroke a 9000 RPM provides smooth and fast material removal  
*Best for: Repetitive filing as well as metal preparation*

---

**Model** | **Retainer** | **Housing Material** | **Bushing (in)** | **SPM/RPM** | **Blows Per Minute** | **Bore (in)** | **Stroke (in)** | **Weight (lb)** | **Weight (kg)** | **Length (in)** | **Length (mm)** | **Air Inlet (npt)** | **Hose ID (in)** | **Air Cons. (cfm)** | **Avg. Air Cons. (cfm)**  
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---  
UT9930 | Set Screw | Steel | Std Blade | NA | 9,900 | 3/16 | 5/16 | 2.30 | 1.00 | 8.25 | 210 | 1/4" | 3/8 | 16 | 4.00  
UT8862 | Set Screw | Aluminum | 1/4 | 9,000 | NA | NA | 1/4 | 2.30 | 1.00 | 7.00 | 178 | 1/4" | 3/8 | 12 | 3.00  
UT9940 | Set Screw | Steel | 1/4 | 9,000 | NA | NA | 1/4 | 2.30 | 1.00 | 7.25 | 184 | 1/4" | 3/8 | 14 | 3.50

Recommended Air Pressure of 90 psi - 6.2 bar  
See accessories on page 70 and 71
The UT line of Industrial Grinders and Sanders has been developed to offer the widest selection of product choices to meet increased market demands for quality, accuracy and dependability; as well as meeting increasing demands for low vibration, temperature insulation and general operator comfort.

UT Grinders and Sanders feature the highest HP to weight ratios, and modern designs offer built-in comfort features such as composite insulated grips, as well as reduced noise and vibration. All UT Grinders fully meet ANSI requirements for guards, spindles, mounting fixtures and spindle run out.

Our extensive line up covers a range from 0.25 HP precision grinders up to 4.0 HP vertical and horizontal grinders, with choices of steel bodies and angle configurations.

Our UT Palm Sander series offers the lowest noise and vibration levels with choices of orbit pattern and pad size.

Various models in the UT Die Grinder and Angle Grinder line feature our “Softouch” coating which provides insulation to the operator, along with reduced vibration, and comfort grip handles.

We use only the highest grade materials, bearings and precision gears, to meet customer expectations for quality and dependability.

With a wide range of speed choices, and HP capability the UT line of grinders and Sanders are ideal for heavy material removal, precision engineering, automobile, RV industry, furniture, heavy metal fabrication, paint, refinish and MRO uses.
PENCIL GRINDERS & AIR NIBBLERS

**UT8706-2**
1/8” Pencil Grinder
- Double front spindle bearing for increased durability and reduced vibration
- Roll throttle and small diameter grip for constant speed and operator control
- Supplied complete with coaxial hose assembly
- Rear exhaust keeps work area clean from cuttings

*Best for: Precision grinding in mold and die maintenance*

**UT8714**
1/8” Pencil Grinder
- Double front spindle bearing for increased durability and reduced vibration
- Roll throttle and small diameter grip for constant speed and operator control
- Supplied complete with coaxial hose assembly
- Rear exhaust keeps work area clean from cuttings

*Best for: Precision grinding in mold and die maintenance*

**UT8708**
Right Angle Pencil Grinder
- Roll throttle and small diameter grip for constant speed and operator control
- Supplied complete with coaxial hose assembly
- Rear exhaust keeps work area clean from cuttings
- Gearless design reduces maintenance costs
- 70,000 RPM for high speed, precision work

*Best for: Precision grinding in mold and die maintenance*

**UT8711-T**
Precision Turbine Grinder
- Lubrication free
- Durable aluminum housing
- Precision collet
- Low vibration

*Best for: Precision grinding in mold and die maintenance*

---

**Model # | Motor (hp) | Motor (kw) | Max. Capacity (in) | Speed (rpm) | Exhaust | Collet Size | Weight (lb) | Weight (kg) | Length (in) | Length (mm) | Air Inlet | Air Hose | Air Cons. (cfm) | Avg. Air Cons. (cfm)**
---
| UT8706-2 | 0.25 | 0.18 | 1/8 | 54,000 | Rear | 1/8” | 0.50 | 0.20 | 5.25 | 133 | 1/4” | 1/4 | 16 | 4.00 |
| UT8714 | 0.25 | 0.18 | 1/8 | 70,000 | Rear | 1/8” | 0.50 | 0.20 | 4.75 | 121 | 1/4” | 1/4 | 12 | 5.70 |
| UT8708 | 0.25 | 0.18 | 1/8 | 70,000 | Rear | 1/8” | 0.50 | 0.20 | 5.90 | 130 | 1/4” | 1/4 | 12 | 5.70 |
| UT8711-T | 0.06 | 0.04 | 3/16 | 100,000 | Front | 1/8” | 0.66 | 0.30 | 7.48 | 190 | 1/4” | 3/16 | 7 | 1.00 |

Recommended Air Pressure of 90 psi - 6.2 bar
**Universal Tool™**

**UT8737 115˚ Angle Die Grinder**
- 0.65 HP Motor for extra stall resistance
- Safety lock-off throttle
- Rear exhaust keeps work area clean from cuttings
- In-line speed regulator
*Best for: Difficult access continuous grinding*

---

**UT8710-25 STRAIGHT DIE GRINDER**
- Composite grip housing for operator comfort
- .5HP motor with reduced vibration and added stall resistance
- Heavy duty ball bearing construction
- Internal silencing reduces noise output
- Safety lock-off throttle
- Rear exhaust keeps air away from work area
*Best for: General light duty intermittent grinding and deburring*

**UT8720-20 STRAIGHT DIE GRINDER**
- Composite grip housing for operator comfort
- .7HP motor with reduced vibration and added stall resistance
- Heavy duty ball bearing construction
- Internal silencing reduces noise output
- Safety lock-off throttle
- Rear exhaust keeps air away from work area
*Best for: General intermittent grinding and deburring*

**UT8715-20 Angle Die Grinder**
- Composite grip housing for operator comfort
- .5HP motor with reduced vibration and added stall resistance
- Heavy duty ball bearing construction
- Internal silencing reduces noise output
- Safety lock-off throttle
- Rear exhaust keeps air away from work area
*Best for: General intermittent grinding in tight access areas*

---

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<th>Motor (hp)</th>
<th>Motor (Kw)</th>
<th>Max. Wheel Dia. (in)</th>
<th>Speed (rpm)</th>
<th>Exhaust</th>
<th>Collar Size</th>
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<th>Weight (kg)</th>
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<th>Length (mm)</th>
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Recommended Air Pressure of 90 psi - 6.2 bar

See accessories on page 73, 76
PRECISION DIE GRINDERS

**UT8724 / UT8724-12 / UT8724-20 / UT8724T-20**

1/4" Die Grinder Series
- .45 HP motor prevents stall under load
- Oil free motor features machined carbon fiber blades
- Throttle valve designed for variable speed control
- Precision 3 piece collet
- UT8724T-20: 1/4"-20 Male spindle to connect backing plate reducing overall height

*Best for: Continuous use applications found in aerospace and metal fabrication*

**UT4425-1 / UT4425E-1 / UT4425E-CW / UT4425E-CWS**

1/4" Steel Die Grinder Series
- 1.0 HP motor prevents stall under load
- All steel construction for super duty use and ultimate durability
- Equipped with 1/4" Erickson® style collet for extra precision and holding power, 3/8" Erickson® style collet also available
- Parts Interchange with # CP®-9113G Series
- UT4425E-1: Extended length spindle
- UT4425E-CW: Extended length cone wheel tool
- UT4425E-CWS: Extended length cone wheel tool 26" OAL

*Best for: Super heavy duty grinding applications in foundry, shipbuilding and heavy metal fabrication*

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### Model Specifications

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<th>Model #</th>
<th>Motor (hp)</th>
<th>Motor (Kw)</th>
<th>Max. Wheel Dia. (in)</th>
<th>Speed (rpm)</th>
<th>Exhaust</th>
<th>Spindle/Collet Size</th>
<th>Weight (lbs)</th>
<th>Weight (Kg)</th>
<th>Length (in)</th>
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Recommended Air Pressure of 90 psi - 6.2 bar

See accessories on page 73, 76
UT8749ADG
1/4" HD Angle Die Grinder
• 1.0 HP motor for added stall resistance
• Unique ultra heavy duty angle head and alloy steel spiral gear and pinion for extra reliability
• Head height 2.5" from the top of angle head to the face of collet lock nut
• Insulated composite grip; reduces weight and operator fatigue, lock-off throttle lever
• Rear exhaust
• 1/4" Collet size
Best for: Continuous grinding and sanding 2" and 3" Disc

UT8728 / UT8728E
1/4" Die Grinder Series
• 0.9 HP motor for ultimate stall resistance
• Safety lock-off throttle
• Rear exhaust keeps work area clean from cuttings
• Ergonomic "Softouch" coating offers ultimate comfort and reduced vibration
• UT8728E Features 12" OAL for added reach
Best for: Continuous heavy duty grinding in rugged applications

UT8729-12/UT8729-18
Angle Die Grinder
• 0.9 HP Motor for extra stall resistance
• Safety lock-off throttle
• Rear exhaust keeps work area clean from cuttings
• Precision engineered for added reliability
• Ergonomic "Softouch" coating offers ultimate comfort and reduced vibration
• Spiral machined bevel and pinion gears for smooth operation and durability
Best for: Continuous heavy duty grinding, and sanding applications using 2" and 3" sanding discs

<table>
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<th>Motor (Kw)</th>
<th>Max. Wheel Dia. (in)</th>
<th>Speed (rpm)</th>
<th>Exhaust</th>
<th>Spindle/Collet Size</th>
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Recommended Air Pressure of 90 psi - 6.2 bar

See accessories on page 73, 76
**PRECISION DIE GRINDERS & ROUTERS**

**UT8728S / UT8728SE / UT8728SE-CW**

Steel Housing Die Grinders

- 0.9 HP motor for ultimate stall resistance
- Safety lock-off throttle
- Rear exhaust keeps work area clean from cuttings
- Steel housing and precision engineered for added reliability
- UT8728SE: Extended length die grinder features 12” OAL for added reach
- UT8728SE-CW: Features threaded output spindle for use with cone wheel

*Best for: Continuous heavy duty grinding in rugged applications*

**UT8727-1 / UT8727-12 / UT8727-20 / UT8727T-20**

Raptor Series Die Grinders

- .40 HP motor for stall resistance
- Exceptionally large spiral gear and pinion doubles tool life
- Only 79 dBA sound pressure
- Erickson® style collet
- Contoured Composite housing for comfort
- Parts Interchange with Ingersoll Rand® CA120R, CA200R, CD200R series
- UT8727T-20: 1/4”–20 Male spindle to connect backing plate reducing overall height

*Best for: Continuous heavy duty grinding*

**UT8728RT / UT8728RT2**

Router

- 0.9 HP Motor for extra stall resistance
- Safety lock-off throttle
- Rear exhaust keeps work area clean from cuttings
- Precision engineered for added reliability
- Ergonomic "Softouch" coating offers ultimate comfort and reduced vibration
- Accepts templates offered by Sioux® and Dotco®
- UT8728RT2: Template Nose Router

*Best for: Removal of flashing from molded parts and trimming of plastic, wood, aluminum and fiberglass*

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<tr>
<th>Model #</th>
<th>Motor (hp)</th>
<th>Motor (Kw)</th>
<th>Max. Wheel Dia. (in)</th>
<th>Wheel Dia. (in)</th>
<th>RPM</th>
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Recommended Air Pressure of 90 psi - 6.2 bar

See accessories on page 73, 76
**Universal Tool**

**UT4425A-4**
4" Steel Body Angle Cut-off/Grinder
- 1.0 HP motor for stall resistance
- Latest design lock-off throttle
- All Steel construction for durability
- Parts Interchange with # CP®-9113G Series
- Band type guard for ease of adjustment
- Low head height 2.4"

_Best for: Super heavy duty grinding applications in foundry, shipbuilding and heavy metal fabrication_

**UT8748 / UT8748E 4" Angle Cut-off Tool**
- 1.0 HP motor for added stall resistance
- Safety lock-off throttle
- Rear exhaust keeps work area clear of blowing debris
- Ergonomic cushion grip for comfort and reduced vibration
- 260˚ swivel guard and swivel air inlet for ultimate maneuverability in confined work area
- Guard and mounting flanges designed for use with Type 1 wheels
- Total angle head height 2.5"

_Best for: Cutting pipes in boiler installation and repair, petro chemical plant maintenance; as well as cutting bolts and threaded fasteners_

**UT8726 Cut-off Tool**
- Impact resistant composite handle for reduced weight
- Clear polycarbonate guard for an unobstructed view
- Cuts up to 3/4" rolled steel
- Safety lock-off throttle
- Guard rotates for added maneuverability

_Best for: Cutting sheet metals and composites_

**UT8748E**

**UT4425A-4**
4" Steel Body Angle Cut-off/Grinder
- 1.0 HP motor for stall resistance
- Latest design lock-off throttle
- All Steel construction for durability
- Parts Interchange with # CP®-9113G Series
- Band type guard for ease of adjustment
- Low head height 2.4"

_Best for: Super heavy duty grinding applications in foundry, shipbuilding and heavy metal fabrication_

**UT8748 / UT8748E 4" Angle Cut-off Tool**
- 1.0 HP motor for added stall resistance
- Safety lock-off throttle
- Rear exhaust keeps work area clear of blowing debris
- Ergonomic cushion grip for comfort and reduced vibration
- 260˚ swivel guard and swivel air inlet for ultimate maneuverability in confined work area
- Guard and mounting flanges designed for use with Type 1 wheels
- Total angle head height 2.5"

_Best for: Cutting pipes in boiler installation and repair, petro chemical plant maintenance; as well as cutting bolts and threaded fasteners_

**UT8726 Cut-off Tool**
- Impact resistant composite handle for reduced weight
- Clear polycarbonate guard for an unobstructed view
- Cuts up to 3/4" rolled steel
- Safety lock-off throttle
- Guard rotates for added maneuverability

_Best for: Cutting sheet metals and composites_

**UT8726**

**UT8725-20 Cut-off Tool**
- Composite grip housing for operator comfort
- .7 HP motor with reduced vibration and added stall resistance
- Heavy duty ball bearing construction
- Internal silencing reduces noise output
- Safety lock-off throttle
- Rear exhaust keeps air away from work area

_Best for: Cutting sheet metals and composites_

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<th>Motor (Kw)</th>
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<th>Guard Type</th>
<th>Speed (rpm)</th>
<th>Exhaust</th>
<th>Spindle/Collet Size</th>
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<th>Weight (kg)</th>
<th>Length (in)</th>
<th>Length (mm)</th>
<th>Air Inlet (mp)</th>
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Recommended Air Pressure of 90 psi - 6.2 bar

See accessories page 73, 76
### CUTOFF TOOLS & ANGLE GRINDERS

**UT2740-1**  
4" Angle Grinder  
- 0.75 HP Motor for good stall resistance  
- Safety lock-off throttle  
- Governor controlled to maintain speed under load  
- Heavy duty spiral gears for reliability  
*Best for: General intermittent grinding*

**UT8775-1**  
4" Angle Grinder  
- 0.9 HP motor for extra stall resistance  
- Safety lock-off throttle  
- Governor controlled to maintain speed under load  
- Heavy duty spiral gears for reliability  
- Ergonomic composite grip for comfort and reduced vibration  
- "Rapid-adjust" guard allows rotational adjustment without tools  
*Best for: Heavy grinding and MRO applications*

**UT8748-4**  
4" Angle Grinder  
- 1 HP motor for added stall resistance  
- Heavy duty alloy steel spiral gears  
- Extended length for limited access applications  
- Patented 260° rotation guard  
- Composite grip reduces operator fatigue  
*Best for: Limited access applications found in steel fabrication and MRO*

<table>
<thead>
<tr>
<th>Model #</th>
<th>Motor (hp)</th>
<th>Motor (Kw)</th>
<th>Max. Wheel Dia. (in)</th>
<th>Guard Type</th>
<th>Speed (rpm)</th>
<th>Exhaust Spindle Size</th>
<th>Weight (lb)</th>
<th>Weight (kg)</th>
<th>Length (in)</th>
<th>Length (mm)</th>
<th>Air Inlet (npt)</th>
<th>Rec. Hose (id. In)</th>
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Recommended Air Pressure of 90 psi - 6.2 bar  
See accessories page 68, 73
**UT8780-1**

4-1/2" Angle Grinder
- 0.9 HP motor for extra stall resistance
- Safety lock-off throttle
- Governor controlled to maintain speed under load
- Heavy duty spiral gears for reliability
- Ergonomic composite grip for comfort and reduced vibration
- "Rapid-adjust" guard allows rotational adjustment without tools

*Best for: Heavy grinding and MRO applications*

---

**UT8749-1 4" Extended Angle Grinder**

**UT8749-5 5" Extended Angle Grinder**
- 1.0 HP motor for added stall resistance
- Heavy duty alloy steel spiral gears
- Insulated composite grip reduces weight and operator fatigue
- Single piece motor-angle head housing adds durability
- Safety lock-off throttle
- Patented adjustable 260° rotational guard

*Best for: Heavy duty continuous grinding*

---

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Recommended Air Pressure of 90 psi - 6.2 bar

See accessories on page 68
### UT8784-4 4" Angle Grinder
- 2.4 HP governed motor for stall-free operation
- Alloy steel spiral gears with heavy duty bearings for added reliability
- "Rapid-adjust" guard allows rotational adjustment without tools
- Rotational rear-exhaust deflector reduces noise output and allows operator to adjust flow direction
- Compact design - reduced weight
- Spindle lock for rapid wheel change can be moved to right or left side of body
- Vibration damped side handle included
- Insulated composite handle over-mold increases operator comfort

**Best for:** Continuous use heavy duty surface preparation and material removal

### UT8785-5-1 5" Angle Grinder
- 1.3 HP Motor for added stall resistance
- Safety lock-off throttle
- One piece housing reduces maintenance costs
- Heavy duty air cooled spiral gears and double bearings for added durability
- Ergonomic composite grip for comfort and reduced vibration
- Exhaust silencing for added noise control
- Left or right hand assist handle positions

**Best for:** Continuous use heavy duty surface preparation and material removal

### UT8785-4-1 4" Angle Grinder
- 1.3 HP Motor for added stall resistance
- Safety lock-off throttle
- One piece housing reduces maintenance costs
- Heavy duty air cooled spiral gears and double bearings for added durability
- Ergonomic composite grip for comfort and reduced vibration
- Exhaust silencing for added noise control
- Left or right hand assist handle positions

**Best for:** Continuous use heavy duty surface preparation and material removal

### UT8766 7" Angle Grinder
- High HP Motor for added stall resistance
- Safety lock-off throttle
- One piece housing reduces maintenance costs
- Heavy duty air cooled spiral gears and double bearings for added durability
- Ergonomic composite grip for comfort and reduced vibration
- Dual exhaust silencing for added noise control
- Left or right hand assist handle positions

**Best for:** Continuous use extra heavy duty surface preparation and material removal

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Recommended Air Pressure of 90 psi - 6.2 bar

See accessories on page 68
**UT8767-23 7" Vertical Grinder 2.3 HP**
- 2.3 HP Motor prevents stall under load
- Safety lock-off throttle
- Governor controlled to maintain speed for optimum material removal
- Double bearing spindle design for durability
- Built-in exhaust silencer system
- Power Packed 2.3 HP six vane motor
*Best for: Continuous heavy duty grinding*

**UT8769-23 9" Vertical Grinder 2.3 HP**
- 2.3 HP Motor prevents stall under load
- Safety lock-off throttle
- Governor controlled to maintain speed for optimum material removal
- Double bearing spindle design for durability
- Built-in exhaust silencer system
- Power Packed 2.3 HP six vane Motor
*Best for: Continuous heavy duty grinding*

**UT8768-3V-60-6 / UT8768-4V-60-6**
**UT8768-3V-60-7 / UT8768-4V-60-7**
**UT8768-3V-60-9 / UT8768-4V-60-9**
3.0 and 4.0 HP Vertical Grinder Series
- Governed Motor for constant speed
- Housing made from high grade aluminum alloy for maximum strength
- Safety lock-off throttle and side assist handle for operating comfort
- Internal silencing reduces noise level
- Wheel guards and flanges follow ANSI standards
*Best for: Heavy duty continuous grinding*

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Recommended Air Pressure of 90 psi - 6.2 bar

4" cup wheel guard available upon request.
**VT100S-18**

1 HP Horizontal Grinder

- Double-spindle bearing adds reliability
- Composite over-mold grip for comfort
- Governed motor eliminates over-speeding while maintaining power under load

*Best for: Heavy duty continuous grinding*

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**VT200H-60-6 / VT200H-90-CW**

**VT200H-90-CWE**

Horizontal Grinder Series

- 2.0 HP Motor prevents stall under load
- Governor controlled to maintain speed for optimum material removal
- Safety lock-off throttle
- Double pre-loaded bearing spindle design adds reliability
- Steel motor housing and spindle housing increase durability
- Time proven reliable design
- VT200H-90-CW: Cone wheel tool
- VT200H-90-CWE: 26” OAL for added reach

*Best for: Heavy duty continuous grinding*

---

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Recommended Air Pressure of 90 psi - 6.2 bar
Universal Tool

HORIZONTAL GRINDERS

UT300H-60-6 / UT300H-60-6G
UT300H-60-8 / UT300H-60-8G

Horizontal Grinder Series
- 3.0 HP Motor for extra stall resistance
- Safety lock-off throttle
- Stainless steel governor for reliability and maintaining speed under load
- “Technaloy” housing provides ultimate strength with low weight
- Built-in lubricator increases reliability
- UT300H-60-6G and UT300H-60-8G: Feature “D” handle for increased operator control

Best for: Extra heavy duty continuous material removal

UT400H-60-6 / UT400H-60-6G
UT400H-60-8 / UT400H-60-8G

Horizontal Grinder Series
- 4.0 HP Motor for ultimate stall resistance
- Safety lock-off throttle
- Stainless steel governor for reliability and maintaining speed under load
- Built-in lubricator increases reliability
- “Technaloy” housing provides ultimate strength with low weight
- UT400H-60-6G and UT400H-60-8G: Feature “D” handle for increased operator control

Best for: Heavy duty continuous grinding

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Recommended Air Pressure of 90 psi - 6.2 bar
• The UT line of Industrial Sanders has been developed to offer the widest selection of product choices to meet increased market demands for quality, accuracy and dependability; as well as meeting increasing demands for low vibration, temperature insulation and general operator comfort.

• UT Sanders feature the highest HP to weight ratios, and modern designs offer built-in comfort features such as composite insulated grips, as well as reduced noise and vibration.

• Our UT Palm Sander series offers the lowest noise and vibration levels with choices of orbit pattern and pad size.

• We use only the highest grade materials, bearings and precision gears, to meet customer expectations for quality and dependability.

• With a wide range of speed choices, and HP capability the UT line of Sanders are ideal for heavy material removal, precision engineering, automobile, RV industry, furniture, heavy metal fabrication, paint, refinish and MRO uses.
Universal Tool UT8789 SERIES Low Vibration "Lube Free" Orbital Sanders

Universal Tool has developed a series of “lubrication free” sanders that incorporate the latest engineering concepts, advanced materials and patented designs. The Universal Tool technology reduces weight, noise & vibration, while extending the tool life. The Universal Tool’s smooth design throttle lever and the ergonomic grip featured in orbital Sanders provide unmatched operating comfort.

- A choice of 3/32" and 3/16" orbit options
- Non vacuum, central vacuum and self vacuum options
- 5" and 6", “PSA” Pad options
- Only 1.6 CFM average air consumption and 6.2 CFM continuous running under load
- Advanced silencing technology reduces noise levels to 75-78 d(B)A
- Patented double sealed, lubrication free motor prevents dust contamination of the air motor and eliminates the need for oiling
- Orbital Sanders feature the Universal Tool “smooth design throttle lever and ergonomics grip” providing unmatched comfort
- Patented “anti vibration” motor reduces vibration level to 1.8 m/sec²
- Low weight: Orbital Sanders 2.0 lbs. and geared Sanders 3.4 lbs.

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<th>No. Vacuum Pad Holes</th>
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<th>Air Inlet NPT/BSP (in.)</th>
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<td>127</td>
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</table>
UT8897S 0.9 HP 5” High Speed Sander
- 0.9 HP for stall resistance
- Ported throttle valve for ultimate control and reliability
- Through handle exhaust with silencing system
- Double front bearing for smooth operation and durability
*Best For: Heavy duty continuous sanding/surface preparation*

UT8749S Heavy Duty 5” Angle Sander

UT8749-5S Heavy Duty 5” Angle Sander
- 1.0 HP motor for added stall resistance
- Single piece motor-angle head housing adds durability
- Safety lock-off throttle
- Heavy duty alloy steel spiral gears
- Insulated composite grip reduces weight and operator fatigue
*Best For: Heavy duty continuous sanding/surface preparation*

UT2226 High Speed Sander
- 1/2 HP for stall resistance
- Built in regulator for positive speed control
- Designed for touch-up, feather edging and production sanding on a variety of materials
*Best For: Light duty sanding*

<table>
<thead>
<tr>
<th>Model #</th>
<th>Motor (hp)</th>
<th>Motor (Kw)</th>
<th>Pad Dia. (in)</th>
<th>Speed (rpm)</th>
<th>Exhaust</th>
<th>Spindle Size</th>
<th>Weight (lbs)</th>
<th>Weight (kg)</th>
<th>Height (in)</th>
<th>Length (in)</th>
<th>Length (cm)</th>
<th>Air Inlet (sq)</th>
<th>Air Cons. (cfm)</th>
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<td>5</td>
<td>12,000</td>
<td>Rear</td>
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<td>4.00</td>
<td>1.80</td>
<td>2.50</td>
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<td>1/4”</td>
<td>3/8</td>
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<td>1/4”</td>
<td>3/8</td>
<td>18.00</td>
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Recommended Air Pressure of 90 psi - 6.2 bar
UT8756-1 7” Angle Sander
- 1.0 HP Motor for good stall resistance
- Safety lock-off throttle
- Built-in regulator for positive speed control
- Heavy duty spiral gears for reliability

Best for: General surface preparation and material removal

UT8766S 7” Angle Sander
- 1.7 HP Motor for ultimate stall resistance
- Safety lock-off throttle
- One piece housing reduces maintenance costs
- Heavy duty air cooled spiral gears and double bearings for added reliability
- Ergonomic composite grip for comfort and reduced vibration and dual exhaust silencing for noise control
- Left or right hand assist handle positions

Best for: Continuous use heavy duty surface preparation and material removal

UT8767S-23 7” Vertical Sander
- 2.3 HP governor controlled motor for demanding sanding applications
- Safety lock-off throttle
- Built-in exhaust silencing
- Double front bearing for smooth operation and durability

Best for: Continuous use heavy duty surface preparation and material removal

<table>
<thead>
<tr>
<th>Model #</th>
<th>Motor (hp)</th>
<th>Motor (Kw)</th>
<th>Pad Dia. (in)</th>
<th>Speed (rpm)</th>
<th>Exhaust</th>
<th>Spindle Size</th>
<th>Weight (lbs)</th>
<th>Weight (kg)</th>
<th>Height (in)</th>
<th>Length (in)</th>
<th>Length (mm)</th>
<th>Air Inlet (qqq)</th>
<th>Rec. Hose (id. in)</th>
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Recommended Air Pressure of 90 psi - 6.2 bar
### UT8788
**6” Dual Action Sander**
- Lubrication free motor with double sealing to prevent dust contamination
- Internal silencing system reduces noise level to 82 dBA
- Built-in thumb operated speed regulator for instant control
- Low profile 3-3/4” high

*Best for: Finishing wood, composite and pre painted surfaces*

### UT8791 / UT8794
**3/16” Orbital Jitterbug Sander**
- 0.40 HP motor provides power to match the job
- Built-in regulator for positive control
- Rear exhaust with built-in silencing system for noise control
- Heavy duty sealed bearing for durability

*Best for: Finishing wood, composite and pre painted surfaces*

---

<table>
<thead>
<tr>
<th>Model #</th>
<th>Motor (hp)</th>
<th>Motor Kw</th>
<th>Orbit Diam.</th>
<th>Pad Dia.</th>
<th>Speed (rpm)</th>
<th>Exhaust</th>
<th>Spindle Size</th>
<th>Weight (lb)</th>
<th>Weight (kg)</th>
<th>Height (in)</th>
<th>Length (in)</th>
<th>Air Inlet (npt)</th>
<th>Rec. Hose (id. in)</th>
<th>Air Cons. (cfm)</th>
<th>Avg. Air Cons. (cfm)</th>
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<td>6”</td>
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<td>4” x 6”</td>
<td>10,000</td>
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<td>1.00</td>
<td>3.80</td>
<td>6.50</td>
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<td>3” x 4”</td>
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<td>4.50</td>
<td>114</td>
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<td>3/8</td>
<td>18</td>
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*Recommended Air Pressure of 90 psi - 6.2 bar*
**ORBITAL & BELT SANDERS**

**UT8702-1** Belt Sander 3/8" x 13” Belt
**UT8703-1** Belt Sander 3/4" x 20-1/2" Belt
- Head rotates 180˚ for operating convenience and comfort
- Variable speed throttle for positive control
- Integral belt tracking keeps sanding belt in place
*Best for: Light grinding, sanding and deburring*

**UT8718** Belt Sander 1/2”x12” Belt
**UT8718K** Belt Sander Kit 1/2”x12” Belt
**UT8719** Belt Sander 3/4”x18” Belt
**UT8719K** Belt Sander Kit 3/4”x18” Belt
- Head rotates 360˚ for operator convenience and comfort
- Interchangeable contact arms maximize operational capability
- Safety lock-off throttle
- Ergonomically designed side handle and grip for comfort and control
- Swivel air inlet and built-in silencing for noise control
- UT8718 Kit includes 4 interchangeable contact arms, 6 abrasive belts and 2 surface conditioning belts
- UT8719 Kit includes 6 interchangeable contact arms, 9 abrasive belts and 2 surface conditioning belts
*Best for: Light grinding, sanding, deburring and engine port work*

**UT8701 Offset Belt Sander 1/4”, 1/2”x24” Belt**
- Superior belt tracking permits use of 1/4”, 1/2”x24” long belts
- Advanced ergonomic design composite grip
- Low weight composite belt guard allows quick and easy belt changes
- Safety lock-off throttle
- Built-in regulator adds control
- Interchangeable contact arms
- 0.5 HP motor provides power for sanding, grinding, deburring, blending and polishing
*Best for: Continuous sanding and surface preparation*

---

**Model #** | **Motor (hp)** | **Motor (Kw)** | **Belt Size** | **Speed (rpm)** | **Exhaust** | **Weight (lb)** | **Weight (kg)** | **Length (in)** | **Length (mm)** | **Air Inlet ( separat)** | **Res. Hose (id. in)** | **Air Cons. (cfm)** | **Avg. Air Cons. (cfm)**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
UT8702-1 | 0.25 | 0.18 | 3/8” x 13” | 16,000 | Side | 1.80 | 0.80 | 3.50 | 11.00 | 279 | 1/4” | 3/8 | 18 | 4.50
UT8703-1 | 0.25 | 0.18 | 3/4” x 20-1/2” | 16,000 | Side | 3.00 | 1.40 | 4.60 | 13.75 | 349 | 1/4” | 3/8 | 20 | 5.00
UT8718 | 0.25 | 0.18 | 1/2” x 12” | 20,000 | Handle | 2.20 | 1.00 | 5.30 | 12.00 | 305 | 1/4” | 3/8 | 16 | 4.00
UT8718K | 0.25 | 0.18 | 1/2” x 12” | 20,000 | Handle | 5.00 | 2.30 | 5.30 | 12.00 | 305 | 1/4” | 3/8 | 16 | 4.00
UT8719 | 0.30 | 0.22 | 3/4”x18” | 18,000 | Handle | 2.90 | 1.30 | 4.50 | 15.35 | 390 | 1/4” | 3/8 | 16 | 4.00
UT8719K | 0.30 | 0.22 | 3/4”x18” | 18,000 | Handle | 6.80 | 3.00 | 6.50 | 15.35 | 390 | 1/4” | 3/8 | 16 | 4.00
UT8701 | 0.50 | 0.37 | 1/4”-1/2”x24” | 20,000 | Handle | 3.10 | 1.40 | 4.60 | 15.75 | 400 | 1/4” | 3/8 | 20 | 5.00

Recommended Air Pressure of 90 psi - 6.2 bar
See replacement arms and attachments on page 68.
The UT line of Industrial Drills has been developed to offer a wide selection of product choices to meet the increased market demands for quality, accuracy, and dependability; as well as meeting increased demands for low vibration, temperature insulation, and general operator comfort.

The Universal Tool line of drills offers a selection of fully enclosed gear and planetary gear drives. Various models within the UT Drill Series feature our “Softouch” coating; or comfort grips which provide insulation to the operator, along with reduced vibration.

Handle design and balance are key features; these features coupled with our precision ported throttle design offer optimum operator comfort and control in continuous processes.

We use only the highest grade materials, bearings, needle bearings, and precision gears, to meet customer expectations for quality and dependability.

With a wide range of speed choices, and HP capability the UT line of drills covers the needs of high volume continuous assembly processes, airframe, and aerospace applications as well as intermittent MRO uses.
DRILLS & PRODUCTION DRILLS

UT8825 1/4" Drill
UT8825R 1/4" Reversible Drill
• Precision control two step trigger
• Spindle run out 0.002" for accuracy
• Internal handle silencing reduces noise level to 84 dBA
• Composite motor housing and handle for comfort
• Trigger mounted reverse for model U8825R provides instant change of direction
Best for: General purpose drilling in tight areas

UT2815R 3/8" Reversible Drill
• 0.75 HP Motor for extra stall resistance
• Reliable planetary gear system
• Trigger mounted reverse switch for convenient change of direction
• Contoured composite grip for comfort
Best for: Intermittent general drilling and MRO

UT2855R / UT2885R-7
1/2" Reversible Drill
• 0.75 HP Motor for extra stall resistance
• Reliable planetary gear system
• Trigger mounted reverse switch for convenient change of direction
• Contoured composite grip for comfort
Best for: Intermittent general drilling and MRO

UT8833R-1 3/8" Reversible Drill
UT8840R-1 1/2" Reversible Drill
• 0.75 HP Motor for extra stall resistance
• Double injection ergonomically advanced housing and grip
• Variable speed trigger with reverse on both sides
• Patented silencer reduces noise to 83 dBA
• Precision machined planetary gears with needle bearings
• Steel gear case for added durability
Best for: Heavy duty continuous drilling

Model | Motor (hp) | Motor (kw) | Speed (rpm) | Exhaust | Chuck (in.) | Weight (lbs) | Weight (kg) | Length (in) | Length (mm) | Air Inlet (sq in) | Req. Hose (id in) | Air Cons. (cfm) | Avg. Air Cons. (cfm) |
---|---|---|---|---|---|---|---|---|---|---|---|---|---|
UT8825 | 0.30 | 0.22 | 2,600 | Handle | 1/4 | 1.80 | 0.81 | 5.70 | 145.00 | 1/4" | 3/8 | 10 | 2.50 |
UT8825R | 0.30 | 0.22 | 2,600 | Handle | 1/4 | 1.80 | 0.81 | 5.70 | 145.00 | 1/4" | 3/8 | 10 | 2.50 |
UT2815R | 0.75 | 0.51 | 1,800 | Handle | 3/8 | 2.50 | 1.10 | 7.00 | 165.00 | 1/4" | 3/8 | 14 | 3.50 |
UT2855R | 0.75 | 0.51 | 450 | Handle | 1/2 | 3.00 | 1.40 | 9.00 | 220.50 | 1/4" | 3/8 | 14 | 3.50 |
UT2855R-7 | 0.75 | 0.51 | 700 | Handle | 1/2 | 3.00 | 1.40 | 9.00 | 220.50 | 1/4" | 3/8 | 14 | 3.50 |
UT8833R-1 | 0.75 | 0.51 | 1,800 | Handle | 3/8 | 2.40 | 1.10 | 7.00 | 178.00 | 1/4" | 3/8 | 14 | 3.50 |
UT8840R-1 | 0.75 | 0.51 | 800 | Handle | 1/2 | 2.90 | 1.30 | 8.50 | 216.00 | 1/4" | 3/8 | 14 | 3.50 |

Recommended Air Pressure of 90 psi - 6.2 bar
See replacement chucks, keyless chucks, on page 72
UT8860R-1
3/8” Reversible Angle Drill
- 0.5 HP Motor for extra stall resistance
- Heavy duty spiral gears for reliability
- Rear exhaust keeps work area clean from cuttings
- Convenient button reverse switch

Best for: Heavy duty drilling in tight access areas

UT8895 / UT8895R 3/8” Drill / Reversible Drill
- 0.9 HP Motor for ultimate stall resistance
- Fully caged gears with needle bearings for ultimate reliability
- Ported throttle valve for ultimate control and reliability
- Through handle exhaust with built-in silencing system
- Advanced ergonomically designed handle with "Softouch" coating offers ultimate comfort and reduced vibration
- Jacobs® industrial chuck for accuracy and durability
- Reversible models are ideal for reaming and rivet removal

Best for: Continuous drilling in high volume applications

UT8896/ UT8896R 1/2” Drill / Reversible Drill
- 0.9 HP Motor for ultimate stall resistance
- Fully caged gears with needle bearings for ultimate reliability
- Ported throttle valve for ultimate control and reliability
- Through handle exhaust with built-in silencing system
- Advanced ergonomically designed handle with "Softouch" coating offers ultimate comfort and reduced vibration
- Jacobs® industrial chuck for accuracy and durability
- Assist handle for added control

Best for: Continuous drilling in high volume applications

<table>
<thead>
<tr>
<th>Model #</th>
<th>Motor (hp)</th>
<th>Motor (Kw)</th>
<th>Speed (rpm)</th>
<th>Exhaust</th>
<th>Chuck (in.)</th>
<th>Weight (lb)</th>
<th>Length (in.)</th>
<th>Air Inlet (in)</th>
<th>Rec. Hose (id. in)</th>
<th>Air Cons. (cfm)</th>
<th>Avg. Air Cons. (cfm)</th>
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<td>18.40</td>
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Recommended Air Pressure of 90 psi - 6.2 bar

See replacement chucks, keyless chucks, on page 72
## Universal Tool™

### 43 ANGLE, PRODUCTION & HIGH TORQUE “D” HANDLE DRILLS

**UT8897 1/4” Drill**
- 0.9 HP Motor for ultimate stall resistance
- Double front bearing spindle for smooth operation and durability
- High speed for the fastest work in lighter weight materials
- Through handle exhaust with built-in silencing system
- Advanced ergonomically designed handle with “Softouch” coating offers ultimate comfort and reduced vibration RÖHM® industrial chuck for accuracy and durability

*Best for: Fast drilling in alloys and other light materials*

---

**UT8894 1/4” Drill**
- 0.9 HP Motor for ultimate stall resistance
- Fully caged gears with needle bearings for ultimate reliability
- Ported throttle valve for ultimate control and reliability
- Through handle exhaust with built-in silencing system
- Advanced ergonomic handle design with insulated coating for maximum operator comfort
- RÖHM® industrial chuck for accuracy and durability

*Best for: Continuous high speed precision drilling in alloys*

---

**UT8843-8 1/2” "D" Handle Drill**
- 1.1 HP Double reduction Gear train for High Torque to drill up to 5/8” Diameter holes
- "D" Handle with inside trigger provides control
- Large Side handle is mountable on either side of tool and permits additional operator control

*Best for: Heavy duty Drilling in high grade metals*

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<th>Motor (kW)</th>
<th>Throttle Style</th>
<th>Speed (rpm)</th>
<th>Exhaust</th>
<th>Chuck (in.)</th>
<th>Weight (lb)</th>
<th>Weight (kg)</th>
<th>Length (in)</th>
<th>Length (mm)</th>
<th>Air Inlet (npt)</th>
<th>Rec. Hose (id. in)</th>
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<td>0.90</td>
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**Recommended Air Pressure of 90 psi - 6.2 bar**

See replacement chucks, keyless chucks, on page 72
AIRCRAFT TOOLS

- Machined Carbon Fiber Blades for Lubrication Free Operation
- Highest Precision Engineering Ensures 600,000 Cycles of Use
- Interchangeable Drilling Attachments
PRECISION AIRCRAFT DRILLS & INTERNAL SPLINE DRIVE TOOLS

**UT8892 Precision Pistol Drill Series**
- Machined carbon fiber blades for lubrication free operation
- Highest precision engineering ensures 600,000 cycles of use
- Internal silencer baffle reduces noise pressure level to 75 dBA
- Precision needle bearings and gears and gear case interchangeable with leading brand
- Advanced ergonomic handle design with insulated coating for maximum operator comfort
- Ported throttle valve for precise variable speed control

*Best for: Continuous precision air frame work*

---

**UT8892SP Internal Spline Drive Tool Series**
- Machined carbon fiber blades for lubrication free operation
- Highest precision engineering ensures 600,000 cycles of use
- Internal silencer baffle reduces noise pressure level to 75 dBA
- Precision needle bearings and gears and gear case interchangeable with leading brand
- Advanced ergonomic handle design with insulated coating for maximum operator comfort
- Ported throttle valve for precise variable speed control
- Internal spline drive for use with Universal Tool or Jiffy® “L”-Foot and Pancake Drilling Attachments

*Best for: Continuous precision air frame work*

---

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<tr>
<th>Model #</th>
<th>Motor (hp)</th>
<th>Motor (Kw)</th>
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<th>Throttle Style</th>
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<th>Exhaust</th>
<th>Check (in.)</th>
<th>Weight (lb)</th>
<th>Weight (Kg)</th>
<th>Length (in)</th>
<th>Length (mm)</th>
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<th>Rec. Hose (id. in)</th>
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<td>1.20</td>
<td>0.54</td>
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<td>Rear</td>
<td>1/4</td>
<td>1.20</td>
<td>0.54</td>
<td>7.40</td>
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<td>1/4</td>
<td>1.20</td>
<td>0.54</td>
<td>7.40</td>
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<td>1.20</td>
<td>0.54</td>
<td>7.40</td>
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<td>3/8</td>
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<td>Rear</td>
<td>Internal Spline</td>
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<td>4.00</td>
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<td>1,000</td>
<td>Rear</td>
<td>Internal Spline</td>
<td>1.10</td>
<td>0.50</td>
<td>6.25</td>
<td>159</td>
<td>1/4”</td>
<td>3/8</td>
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<td>Internal Spline</td>
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<td>159</td>
<td>1/4”</td>
<td>3/8</td>
<td>16.00</td>
<td>4.00</td>
</tr>
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</table>

Recommended Air Pressure of 90 psi - 6.2 bar
### UT8898

**Aircraft Drill Series**

- 0.7 HP Motor for ultimate stall resistance
- Machined carbon fiber blades for lubrication free operation
- Highest precision engineering ensures 600,000 cycles of use
- Advanced ergonomically designed handle with "Softouch" coating offers ultimate comfort and reduced vibration
- Ported throttle valve for ultimate control and reliability
- Through handle exhaust with built-in silencing baffle reduces noise level to 83 dBA
- Precision engineered to guarantee runout of less than .0015°

*Best for: Continuous precision air frame work*

### UT8891S

**Aircraft Straight Drill Series**

- 0.45 HP Motor ensures no slow down and clean break through
- Machined carbon fiber blades for lubrication free operation
- Highest precision engineering ensures 600,000 cycles of use
- Internal silencer baffle reduces noise pressure to 81 dBA
- Precision engineered

*Best for: Continuous precision air frame work*

---

### Specifications Table

<table>
<thead>
<tr>
<th>Model #</th>
<th>Motor (hp)</th>
<th>Motor (Kw)</th>
<th>Gear Ratio</th>
<th>Speed (rpm)</th>
<th>Exhaust Style</th>
<th>Chuck (in)</th>
<th>Weight (lb)</th>
<th>Weight (kg)</th>
<th>Length (in)</th>
<th>Length (mm)</th>
<th>Air Inlet (npt)</th>
<th>Rec. Hose (id. in)</th>
<th>Air Cons. (cfm)</th>
<th>Avg. Air Cons. (cfm)</th>
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<th>Motor (Kw)</th>
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<th>Speed (rpm)</th>
<th>Exhaust Style</th>
<th>Chuck (in)</th>
<th>Weight (lb)</th>
<th>Weight (kg)</th>
<th>Length (in)</th>
<th>Length (mm)</th>
<th>Air Inlet (npt)</th>
<th>Rec. Hose (id. in)</th>
<th>Air Cons. (cfm)</th>
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<td>Rear</td>
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<td>1.66</td>
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<td>3/8</td>
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*Recommended Air Pressure of 90 psi - 6.2 bar*
UT8891

Aircraft Angle Drill Series
• 0.45 HP motor ensures no slow down & clean break through
• Machined carbon fiber blades for lubrication free operation
• Highest precision engineering ensures 600,000 cycles of use
• Internal silencer baffle reduces noise pressure to 81 dBA
• Precision engineered angle head and gears supported by ball bearings; and 1/4” x 28 TPI internal thread
• Angle head interchangeable with UT8893 series

Best for: Continuous precision air frame work

<table>
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<tr>
<th>Model #</th>
<th>Motor (hp)</th>
<th>Motor (Kw)</th>
<th>Gear Ratio</th>
<th>Speed (rpm)</th>
<th>Exhaust</th>
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Recommended Air Pressure of 90 psi - 6.2 bar
UT8895RSP / UT8896RSP
Reversible Internal Spline Drive Tool
- 0.8 HP Motor for ultimate stall resistance
- Fully caged gears with needle bearings for ultimate reliability
- Ported throttle valve for ultimate control and reliability
- Through handle exhaust with built-in silencing system
- Advanced ergonomically designed handle with "Softouch" coating offers ultimate comfort and reduced vibration
- Internal spline drive for use with Universal Tool or Jiffy® "L"- foot and pancake drilling attachments
- Reversible for back drilling requirements

Best for: Continuous precision air frame work

UT8893
Aircraft Angle Drill Series
- 0.9 HP motor ensures no slow down & clean break through even for larger diameter holes in high grade special alloy materials
- Highest precision engineering ensures 600,000 cycles of use
- Internal silencer baffle reduces noise pressure to 78 dBA
- Advanced ergonomic handle design with insulated coating for maximum operator comfort
- Ported throttle valve for precise variable speed control

Best for: Continuous precision air frame work and general industrial applications

UT8893M-Motor Only

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<th>Motor (Kw)</th>
<th>Gear Ratio</th>
<th>Speed (rpm)</th>
<th>Exhaust</th>
<th>Chuck</th>
<th>Weight (lb)</th>
<th>Weight (kg)</th>
<th>Length (in)</th>
<th>Length (mm)</th>
<th>Air Inlet (npt)</th>
<th>Rec. Hose (id. in)</th>
<th>Air Cons. (cfm)</th>
<th>Avg. Air Cons. (cfm)</th>
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Recommended Air Pressure of 90 psi - 6.2 bar
INTERNAL SPLINE DRIVE TOOLS,
PRECISION AIRCRAFT ANGLE & STRAIGHT DRILLS

UT8891M
Aircraft Motor Series
• 0.45 HP motor ensures no slow down & clean break through
• Machined carbon fiber blades & carbon steel motor parts allow "Oil Free" use
• Highest precision engineering ensures 600,000 cycles of use
• Internal silencer baffle reduces noise pressure to 81 dBA
• Precision engineered angle head and gears supported by ball bearings; and 1/4" x 28 TPI internal thread

Best for: Continuous precision air frame work

UT8897RS
Aircraft Rivet Shaver Series
• Precision cutter adjustment of .0005"
• Ported valve for variable speed control
• Softouch coating for operator comfort
• Muffled through handle exhaust
• Reverse threaded skirt to keep vibration from affecting the shaving depth repeatability

Best for: Aircraft rivets

---

### Model # Motor Motor Gear Speed Exhaust Weight Weight Length Length Air Inlet Rec. Hose Air Cons. Avg. Air
Model (hp) (kw) Ratio (rpm) (in) (lb) (lb) (in) (mm) (m3/min) (ft) (liters)
UT8891M-5 0.45 0.33 40:1 500 Rear 1.4 0.64 7.00 178 1/4" 3/8 16 4.0
UT8891M-10 0.45 0.33 20:1 1,000 Rear 1.4 0.64 7.00 178 1/4" 3/8 16 4.0
UT8891M-24 0.45 0.33 9:1 2,400 Rear 1.2 0.54 6.25 159 1/4" 3/8 16 4.0
UT8891M-33 0.45 0.33 6:1 3,300 Rear 1.2 0.54 6.25 159 1/4" 3/8 16 4.0
UT8891M-45 0.45 0.33 5:1 4,500 Rear 1.2 0.54 6.25 159 1/4" 3/8 16 4.0
UT8891M-60 0.45 0.33 3:3:1 6,000 Rear 1.2 0.54 6.25 159 1/4" 3/8 16 4.0

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Recommended Air Pressure of 90 psi - 6.2 bar

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### Model # Motor Motor Gear Speed Exhaust Weight Weight Length Length Air Inlet Rec. Hose Air Cons. Avg. Air
Model (hp) (kw) Ratio (rpm) (in) (lb) (lb) (in) (mm) (m3/min) (ft) (liters)
UT8897RS-1/4 0.90 0.66 1:1 Ported 20,000 Handle 1/4 2.60 1.10 7.75 197 1/4" 3/8 22.00 4.60
UT8897RS-5/16 0.90 0.66 1:1 Ported 20,000 Handle 5/16 2.60 1.10 7.75 197 1/4" 3/8 22.00 4.60
UT8897RS-3/8 0.90 0.66 1:1 Ported 20,000 Handle 3/8 2.60 1.10 7.75 197 1/4" 3/8 22.00 4.60
UT8897RS-7/16 0.90 0.66 1:1 Ported 20,000 Handle 7/16 2.60 1.10 7.75 197 1/4" 3/8 22.00 4.60
UT8897RS-1/2 0.90 0.66 1:1 Ported 20,000 Handle 1/2 2.60 1.10 7.75 197 1/4" 3/8 22.00 4.60
UT8897RS-9/16 0.90 0.66 1:1 Ported 20,000 Handle 9/16 2.60 1.10 7.75 197 1/4" 3/8 22.00 4.60
UT8897RS-5/8 0.90 0.66 1:1 Ported 20,000 Handle 5/8 2.60 1.10 7.75 197 1/4" 3/8 22.00 4.60

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Recommended Air Pressure of 90 psi - 6.2 bar
90° and 45° Angle Head Accessories

#106160 1/4”-28M - 3/8”-24M
Used to adapt Drill Chuck, Collet

#106162 1/4”-28M - 1/4”-20M
Used to Connect Backing Pad for Roloc® Discs

#106163 1/4”-28M - 5/16”-24M
Used to connect 3M Style Backing Discs

Precision aircraft attachments for use with
UT8891 / UT8893 Angle Drills and SP Series Internal Spline Tools

“L” Type Off-Set

93893-3380PL
93893-3380PL7
93893-3380PL9
93893-3380PLE
93893-3380PLE7
93893-3380PLE9
Precision aircraft attachments for use with UT8891 / UT8893 Angle Drills and SP Series Internal Spline Tools

93893-3348A
90° Angle Drill Attachment

93893-3348AS
90° Short Angle Drill Attachment

93893-3349
90° Heavy Duty Drill Attachment
Precision aircraft attachments for use with UT8891 / UT8893 Angle Drills and SP Series Internal Spline Tools

93893-3360
360° Drill Attachment

93893-4580
45° Angle Drill Attachment

93893-3380PS
Indexable Drill Attachment
FD Series “L” Type Off-set Attachments
For Use With Standard 3 Jaw Drill Chucks (1/4-in.-1/2-in.)

Can be used with reversible drills for back drilling applications.
Universal Tool

9300 Series
Hi-Lok® Modular Installation Tools

Features

- New modular and indexable installation tool for -5 thru -8 diameter Hi-Lok/Hi-Lite® pin and collar combinations.
- Modular attachment design lends itself to point-of-use kits and travel repair kits for airframe maintenance.
- Offset attachment indexes and locks at 30° increments—allows operator maximum comfort for handle position.
- \( A = 2.375^\circ \) \( B = .500'' \)
- Available socket lengths of 1/2” and 1”. Soon to have 1/4” lengths available.
- Attachment and socket assemblies interchange with other major manufacturers.
- Also available in 9301 extended version.
- HD2.5-9300 250 rpm version also available!

- .45 HP Motor Only for Modular & Indexable Hi-Lok® Installation Attachments
- Lubrication free
- Ported throttle for precise control
- 75 dBA

** Tool will accept Jiffy® modular Hi-Lok/Hi-Lite® installation attachments
* Installation attachment is rated at lower torque value than motor

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<th>Model Number</th>
<th>RPM</th>
<th>Max Torque @ 90 psi</th>
<th>Weight</th>
<th>Length</th>
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9300 Series Selection Charts on the Following Pages

© Hi-Lok and Hi-Lite are registered trademarks of the Hi-Shear Corporation
© Jiffy is a registered trademark of United Air Tool
# HI-LOK® MODULAR INSTALLATION TOOLS

## 9300 Series Selection Chart

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To order complete tool with 250 RPM use HD2.5 in the prefix. Tool Selection Chart Continues on Next Page.
### 9300 Series Tool Selection Chart

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Assemblies and Components Tool Selection Chart Continues on Next Page
9300 Socket Assembly, Socket & Hex Tip Selection Chart

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**Screwdriver Clutch Mechanisms**

**Adjustable Auto Shut-off Clutch**
Designed for precision joints, the shut-off clutch provides smooth disengagement at preset torque, while minimizing vibration.

**Positive Jaw Clutch**
Designed for soft high torque joints where torque applied needs to exceed the clamping force; such as in wood or when using self tapping fasteners. Torque is controlled by the operator, or by air pressure adjustments.

**Direct Drive Clutch**
Designed for non critical torque soft joint applications, in wood and metal, where torque is controlled by the operator.

**Twin Hammer Clutch**
Designed to overcome high prevailing torque; Ideal for self tapping fasteners.

- The UT line of screwdrivers, impact drivers, hold and drive tools and ratchets has been developed to offer a wide selection of product choices to meet the increased market demands for quality, accuracy and dependability; as well as meeting increasing demands for low vibration, temperature insulation and general operator comfort.

- The Universal Tool line of screwdrivers features a selection of automatic shut-off models, In pistol, straight and “Air on Top” configurations; as well as pistol grip positive drive and direct drive models. The UT precision ported throttle design adds further control.

- Various models in the UT line feature our “Softouch” coating which provides insulation to the operator, along with reduced vibration. We use only the highest grade materials, bearings, needle bearings and precision gears, to meet customer expectations for quality and dependability.

- With a range of speed choices, torque choices and drive mechanisms, the UT line of screwdrivers, impact drivers, hold and drive tools and ratchets; covers the needs of high volume continuous assembly processes, air frame and aerospace applications; as well as Intermittent MRO uses.
SCREWDRIVERS - POSITIVE, ADJUSTABLE & DIRECT DRIVE

**UT8966 Positive Clutch Screwdriver**
- 0.9 HP Motor with direct drive with positive clutch
- Above trigger mounted reverse for rapid change in direction
- Precision engineered, for ultimate reliability
- Through handle exhaust with built-in silencing system
- Advanced ergonomically designed handle with “Softouch” coating offers ultimate comfort and reduced vibration

*Best for: High volume, high prevailing torque self-tapping*

**UT8935-2 Positive Clutch Screwdriver**

**UT8964-1 Pistol Adjustable Clutch Screwdriver**
- 0.65 HP for optimum torque
- Double injection mold ergonomically advanced housing and grip
- Pistol grip models have reverse on both sides of trigger
- Precision machined planetary gears with needle bearings
- Patented adjustable clutch allows variable torque in forward & reverse

*Best for: High volume assembly where torque adjustment is required*

**UT8955-1 Straight Adjustable Clutch Screwdriver**

**UT8968 Direct Drive Screwdriver**
- 0.5 HP Motor with direct drive for extra stall resistance
- Unique paddle forward-reverse trigger for instant change in direction
- Compact design for increased access and comfort
- Through handle exhaust
- “Softouch” handle coating offers ultimate comfort and reduced vibration

*Best for: High volume self-tapping assembly*

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<th>Check</th>
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<th>Weight (Kg)</th>
<th>Length (in)</th>
<th>Length (mm)</th>
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Recommended Air Pressure of 90 psi - 6.2 bar
### UT8825RQ
**Direct Drive Screwdriver**
- Precision control two step trigger
- Internal handle silencing reduces noise level to 84 dBa
- Composite motor housing for weight reduction and operator comfort
- Trigger mounted reverse lever

*Best for: General duty light assembly*

### UT8895RQ
**Direct Drive Screwdriver**
- 0.9 HP Motor for ultimate stall resistance
- Fully caged gears with needle bearings for ultimate reliability
- Ported throttle valve for ultimate control and reliability
- Through handle exhaust with built-in silencing system
- Advanced ergonomically designed handle with “Softouch” coating offers ultimate comfort and reduced vibration

*Best for: High volume assembly*

### UT8930-1
**Direct Drive Screwdriver**
- 0.65 HP for optimum torque
- Double injection mold ergonomically advanced housing and grip
- Pistol grip models have reverse on both sides of trigger

*Best for: Non-critical fasteners in high volume assembly*

### UT2960
**Adjustable Clutch Screwdriver**
- Excellent for self-tapping
- Thumb operated forward/reverse
- Through handle exhaust

*Best for: Light production using self-tapping fasteners*

### UT2964
**Adjustable Clutch Screwdriver**
- Excellent for self-tapping
- Thumb operated forward/reverse
- Through handle exhaust

*Best for: Light production using self-tapping fasteners*

---

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<tr>
<th>Model #</th>
<th>Motor (hp)</th>
<th>Motor (Kw)</th>
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<th>Speed (rpm)</th>
<th>Exhaust</th>
<th>Chuck</th>
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<th>Weight (Kg)</th>
<th>Length (in)</th>
<th>Length (mm)</th>
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Recommended Air Pressure of 90 psi - 6.2 bar
### UT8960-2 / UT8961-2 / UT8961-2NR

**Adjustable Clutch Angle Auto Shut-off Screwdriver and Nut runner**

- Rugged steel angle head-overall height 1-5/8”
- Rear exhaust
- Thumb operated reverse switch
- Built in suspension bail
- Comfort grip for ultimate comfort and reduced vibration

*Best for: Precision high volume assembly*

---

### UT8962-11 / UT8962-17

**Push to Start Auto Shut-off Screwdriver**

- Adjustable auto shut-off clutch for precision, smooth disengagement and minimum vibration
- A choice of speeds to fit your job, with convenient thumb operated reverse
- Precision engineered, for ultimate reliability
- Rear exhaust with built-in silencing system and built-in suspension bail
- "Softouch" handle grip offers ultimate comfort & reduced vibration

*Best for: Precision high volume assembly*

---

### UT8963ATT-5 / UT8963ATT-11 / UT8963AT-17

**Adjustable Clutch Screwdriver**

- Air on top feature allows for clean vertical suspension without trailing hoses
- Adjustable auto shut-off clutch for precision, smooth disengagement and minimum vibration
- A choice of speeds to fit your job, with convenient thumb operated reverse
- Precision engineered, for ultimate reliability
- Through handle exhaust with built-in silencing system and built-in suspension bail
- "Softouch" handle grip offers ultimate comfort and reduced vibration
- "TT" Models are trigger start

*Best for: Precision high volume assembly*

---

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<tr>
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<th>Motor (hp)</th>
<th>Motor (kW)</th>
<th>Torque Range (in. lbs)</th>
<th>Speed (rpm)</th>
<th>Exhaust</th>
<th>Chuck</th>
<th>Weight (lbs)</th>
<th>Weight (Kg)</th>
<th>Length (in)</th>
<th>Length (mm)</th>
<th>Air Inlet (npt)</th>
<th>Rec. Hose (id. in)</th>
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<td>3/8&quot;</td>
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Recommended Air Pressure of 90 psi - 6.2 bar
UT8080Q / UT8080P
Impact Driver
- Hard hitting twin hammer-75 ft-lb torque for high prevailing torque fasteners
- Powerful 7 vane 10,000 RPM motor for fast efficient run down
- Combined trigger mounted reverse and power regulator
- “Softouch” coated handle and ergonomic grip offers ultimate comfort and reduced vibration
- 30% bias motor provides maximum power in forward direction
*Best for: High volume, high prevailing torque, fast run-down self tapping fasteners*

UT8090Q
Impact Driver
- Powerful 6 vane motor
- Rear mounted reverse switch
- Through handle exhaust
- Hard hitting twin hammer clutch 65 ft. lb max torque
*Best for: High prevailing torque, fast run-down self tapping fasteners*

UT8095Q
Impact Driver
- Hard hitting twin hammer clutch
- Double Injected grip for comfort
- Through handle exhaust
- Compact design
*Best for: High prevailing torque, fast run-down self tapping fasteners*

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<th>Model #</th>
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<th>Weight (Kg)</th>
<th>Length (in)</th>
<th>Length (cm)</th>
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<th>Rec. Hose (in.)</th>
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Recommended Air Pressure of 90 psi - 6.2 bar
## IMPACT DRIVERS & RATCHET WRENCHES

### UT2000-1 1/4" Mini Ratchet
- Triple idler gear for smooth operation
- Steel ratchet head for reliability
- 1/4" Square drive size
- Compact design for tight access work
- Sealed ratchet head for added reliability
- Ergonomic compact grip

*Best for: Intermittent MRO and vehicle service*

### UT2003-1 3/8" Mini Ratchet
- Triple idler gear for smooth operation
- Steel ratchet head for reliability
- 3/8" Square drive size

*Best for: Intermittent MRO and vehicle service*

### UT2005-1 3/8" Ratchet Wrench
- Triple idler gear for smooth operation
- Steel ratchet head for reliability
- 3/8" Square drive size

*Best for: Intermittent MRO and vehicle service*

### UT2010 1/2" Ratchet
- Extended length and powerful motor provide 75 ft lb. torque in hard to reach areas
- Heavy duty steel ratchet head for reliability
- 1/2" Square drive size

*Best for: Intermittent MRO and vehicle service on higher torque fasteners and hard to reach areas*

### UT8006 3/8" Ratchet Wrench
- Powerful motor provides high torque
- Triple idler gear and twin pawl drive for smooth operation
- Triple heat treated alloy steel ratchet and head for ultimate reliability
- Precision engineered for added reliability
- Ergonomic “Softouch” Coating for operator comfort

*Best for: Heavy duty MRO and vehicle service*

### UT8010-5 1/2" High Torque Ratchet
- 130 ft-lbs of maximum torque
- 180 RPM
- Enlarged motor and ratchet head for added torque
- Contoured composite handle grip for comfort
- 360˚ rotational exhaust directs air away from user and work area
- Needle bearing construction for reliability

*Best for: Heavy duty MRO and vehicle service on higher torque fasteners and hard to reach areas*

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<th>Motor (Kw)</th>
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<th>Weight (kg)</th>
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Recommended Air Pressure of 90 psi - 6.2 bar
UT841 / UT842 / UT844

Hold and Drive Fastening Tools
- A choice of speeds and hold and drive heads to handle Riv-nut® setting from 3mm to 10mm / 1/4" to 3/8"
- Unique paddle forward-reverse trigger for instant change in direction
- 0.4 HP Motor for extra stall resistance
- Through handle exhaust
- Ergonomic grip offers ultimate comfort and reduced vibration
- A model and head size must be stated when ordering

Best for: High volume hold and drive applications in aircraft and light assembly industries

UT8600-1

Air Nibbler
- 16 Gauge cutting capacity
- Heavy duty steel anvil and 5mm punch adds stability when cutting thicker materials
- Composite comfort grip
- Minimum cut radius 3/16" for detail work

Best for: Detailed cutting of sheet metal
### HOLD & DRIVE TOOLS, AIR NIBBLER & AIR-HYDRAULIC RIVETERS

#### UT8910
**3/16” Air-Hydraulic Riveter**
- Traction power 2,000 lb. pull force, handles 3/32” to 3/16” aluminum rivets
- Alloy steel jaws and forged aluminum hydraulic cylinder for reliability
- Supplied with four (4) nose pieces (3/32”, 1/8”, 5/32”, 3/16”); an extra set of jaws; and a set of jaws for 3/32” rivets
- Swivel air inlet provides comfort and convenience
*Best for: Blind riveting in container, trailer and recreational vehicle assembly*

---

#### UT8920
**1/4” Air-Hydraulic Riveter**
- Traction power 3,200 lb. pull force, handles 1/8” to 1/4” aluminum rivets
- Alloy steel jaws and forged aluminum hydraulic cylinder for reliability
- Swivel air inlet provides comfort and convenience
- Built-in comfort grip
- Supplied with 2 nose pieces 3/16”, 1/4” and an extra set of jaws
*Best for: Blind riveting in container, trailer and recreational vehicle assembly*

---

#### UT8922
**1/4” Air-Hydraulic Riveter**
- 3,500 Lb pull force allows use for rivets up to 1/4” including stainless
- Vac feature holds rivets for perpendicular applications
- Comfortable trigger with high-low setting
- Rubberized grip for user comfort
- Detachable mandrel collector
- Swivel air inlet for maneuverability
- Built-in silencer reduces noise level
- Designed for continuous operation
- Supplied with four (4) nose pieces (3/32”-1/4”) and an extra set of jaws
*Best for: Trailer construction and repair*

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<td>336</td>
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<td>3/8</td>
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Recommended Air Pressure of 90 psi - 6.2 bar
Universal Tool™

Air Flow and Consumption based on 80 PSI air pressure. Maximum air pressure 150 PSI.

UT9210-1/20-1/30-1/40-1 Air Mover
Universal Tool air movers, disperse fumes, introduce air into confined spaces, cool working areas or machinery. Used in refineries, chemical plants, utilities, fabrication shops, shipyards and other industrial applications.

- Rugged construction for durability and long life
- Cap screw with locking nut used for fastening - no blind rivets
- Simple design easily replaced parts for field maintenance
- Air displacement for 1,400 to 6,260 CFM
- Supplied with grounding lug, wire, clip and crows foot connector

<table>
<thead>
<tr>
<th>Model #</th>
<th>Top Cone Dia (in.)</th>
<th>Lower Cone Dia (in.)</th>
<th>Base Dia (in.)</th>
<th>Weight (lbs)</th>
<th>Length (in)</th>
<th>Bolt Circle Dia (in)</th>
<th>Base Slot Dia (in)</th>
<th>Air Flow (cfm)</th>
<th>Air Cons. (scfm)</th>
<th>Induction Ratio</th>
<th>Air Inlet (N.P.T.)</th>
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<td>3</td>
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<td>5-1/2</td>
<td>16-1/2</td>
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<td>11-1/4</td>
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Air Flow and Consumption based on 80 PSI air pressure. Maximum air pressure 150 PSI.
Model 6800
- High impact PP material
- 3/8” x 50’ PVC hose
- 300 PSIG max pressure
- Automatic, ratchet free running
- Steel mounting bracket
- Best for work bench applications

Model 6801 & 6802
- Heavy duty reinforced steel construction
- Reel supported on both sides by pedestals and arm guides
- Four non-snag roller hose guides reduce hose wear
- Spring retractable design allows automatic rewind of hose
- Spring protector prevents hose damage and stretching
- Reinforced steel mounting plate for floor, wall or overhead mounting
- Model 6801 has 3/8” x 50’ rubber air hose rated to 300 PSIG max with brass male 1/4” NPT fitting
- Model 6802 has 1/2” x 50’ rubber air hose rated to 300 PSIG max with brass male 1/2” NPT fitting

Heavy Duty Air Hose
- Braided rubber air hose rated to 300 PSIG max pressure
- Brass fittings
- Oil and abrasion resistant
- Service temperature -60˚F to 150˚F

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<th>Part #</th>
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<td>6700</td>
<td>3/8” x 25’ air hose</td>
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<td>6701</td>
<td>3/8” x 50’ air hose</td>
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Whip Hose With Oiler Assembly

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<tr>
<td>117465</td>
<td>1/2” x 6’ whip hose</td>
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<tr>
<td>U993106</td>
<td>1/2” Whip hose with oiler assembly</td>
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<tr>
<td>For Use With</td>
<td>Width</td>
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<tr>
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<td>UT8701 Belt Sander</td>
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<td>1/4&quot;</td>
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<tr>
<td>UT8718 Belt Sander</td>
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<table>
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<td>8732376</td>
<td>4&quot; Type 27 Wheel</td>
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<td>8731784</td>
<td>5&quot; Sanding Pad</td>
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<tr>
<td>5428</td>
<td>Plain 5&quot; PSA</td>
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<tr>
<td>5429</td>
<td>6&quot; Foam-backed dual-action pad</td>
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<tr>
<td>8731247</td>
<td>7&quot; Back-up pad</td>
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<tr>
<td>8731184</td>
<td>7&quot; Rubber-back-up pad</td>
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<tr>
<td>95A5C</td>
<td>5&quot; 5 Hole Hook &amp; Loop Pad</td>
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<tr>
<td>95A6C</td>
<td>5&quot; 6 Hole Hook &amp; Loop Pad</td>
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<tr>
<td>8731783</td>
<td>5&quot; Backup Pad</td>
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<tr>
<td>8731075</td>
<td>Pad Nut</td>
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.401 Shank Chisels

5010 Muffler removal chisel
5020 Ripping chisel
5030 Tapered punch
5040 7" Cold chisel
5050 Rivet cutter
5060 Spot weld buster chisel
5080 Single blade panel cutter
5090 Edging and cutting chisel
5100 Double blade panel cutter
5140 1" Face smoothing hammer
5190 Angle scraper
5200 Muffler splitter
5220 Wide cold chisel
5270 Tie rod separator
5280 Ball joint separator
UTA88908 Panel cutter with two cutting edges
UTA88910 Flat chisel 7"
UTA88910-11 Flat chisel 11"
UTA88912 Rivet cutter
UTA88913 Blank chisel
Chipping Hammer Chisels

.680 Shank Diameter Forged Chisels for use in UT8651 through UT8654 series hammers and most competitive tools. Available with hex shanks specify "H" after part number.

- UTA88303 Flat Chisel
- UTA88305 Cape Chisel
- UTA88307 Round Nose
- UTA88309 Diamond Point
- UTA88313 Moil Point
- UTA88321 Tooth Chisel
- UTA88325 Flat Chisel, 1-1/2" wide
- UTA88337 Gouge Chisel

Scaler Chisels & Attachments

For use with UT8630 Series, CLECO, ROTO, ARO, and CP9536 Scalers

- UTA88390 2" Blade Chisel
- UTA883903 3" Blade Chisel
- UTA88391 Blank Chisel
- UTA88392 Cold Flat Chisel
- UTA88393 1-3/8" Blade Chisel
- UTA88394 Angle-Blade Chisel
- FJ5001 Cold Flat Chisel (For use with UT8650 Flux Chipper)
- FJ5002 1-3/8" Blade Chisel
- FJ5003 Angle-Blade Chisel
- UTA88398 Needle Scaler Attachment
  Converts UT8630 chisel scaler to needle scaler.
- UTA85130 5" Needles (Set of 18)
  For use with UT8648/8649 5" Scalers.
- 109020 Set of 19 Needles 1/8" x 7"
  For use with UT8633/8635/8639/86409 7" Scalers.
- 109020-28 Set of 28 Needles 1/8" x 7"
- 109170 Set of 38 Needles 2mm x 7"
- 109170-58 Set of 58 Needles 2mm x 7"
- UTA88395 4" Flex Blade Chisel
  For Use with UT8630LI
- UTA88396 8" Flex Blade Chisel
  For use with UT8630LI
- UTA85836 Vacuum Shroud
- UTA85836L Vacuum Shroud Long Bristle Brush

Air Files

For use with Universal Tool Air Files

- 5679 Flat Mill Cut, 3-pack
- 5680 Round Single Cut, 3-pack
- 5681 Triangle Single Cut, 3-pack
- 5682 Flat Bastard Cut, 3-pack
- 5683 Set of 4 assorted files
Carbide Insert Chisels for UT9922
- 5340 3/8” Blade
- 5350 3/4” Blade
- 5360 1 1/2” Blade
* 1 pc supplied with UT9922

Chipping Hammer Retainer
- 9729583-A Retainer
For use with Universal Tool Chipping Hammers
- 9729584 Spring for Retainer

Utility Hammer Accessories
- UTA83309 Positive Quick-Change Safety Lock
- 5130 One-Piece Safety Retainer
- 5120 Quick-Change Retainer Spring
- 5210 Beehive Retainer Spring

Air Inlet Swivels
- UTA85810 3/8” Air Inlet Swivel
- UTA85815 7/8” Air Inlet Swivel

Saw Blades
For use with reciprocating saws
- 5650 10 assorted H.S.S. Blades
- 5651 10-pack 18 TPI Scroll Blades
- 5652 10-pack 24 TPI Scroll Blades
- 5653 10-pack 32 TPI Scroll Blades
- 5654 10-pack 18 TPI All-Purpose Blades
- 5655 10-pack 32 TPI All-Purpose Blades
- 5656 3-pack TPI Bi-Metal Blades
# Universal Tool

## Industrial Chucks

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Mount Size</th>
<th>Key</th>
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</thead>
<tbody>
<tr>
<td>5952</td>
<td>3/8” Jacobs® Best Industrial 31B Ball Bearing Chuck &amp; Key</td>
<td>3/8” - 24</td>
<td>5915</td>
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<tr>
<td>5965</td>
<td>1/4” Jacobs® Best Industrial 30B Ball Bearing Chuck &amp; Key</td>
<td>3/8” - 24</td>
<td>5914</td>
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<tr>
<td>5927R</td>
<td>1/4” Rohm Chuck &amp; Key</td>
<td>3/8” - 24</td>
<td>5917R</td>
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<tr>
<td>6208</td>
<td>1/4” Jacobs® Industrial 1BA Ball Bearing Chuck &amp; Key</td>
<td>3/8” - 24</td>
<td>5917</td>
</tr>
<tr>
<td>5928</td>
<td>5/16” Rohm Aircraft Chuck &amp; Key</td>
<td>3/8” - 24</td>
<td>5918</td>
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<tr>
<td>5962</td>
<td>1/2” Keyless Industrial Chuck</td>
<td>3/8” - 24</td>
<td>NA</td>
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<tr>
<td>52030</td>
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<tr>
<td>5960</td>
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<tr>
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<td>1/2” Jacobs® Multi-craft Chuck &amp; Key</td>
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## Keyless Chucks

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<td>5/16” Rohm Aircraft Chuck &amp; Key</td>
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<td>1/2” Keyless Industrial Chuck</td>
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## Economy Chucks

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## Chuck Keys

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### DRILL CHUCKS & ACCESSORIES

#### GRINDING GUARDS AND COLLET SETS

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<th>Description</th>
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<tr>
<td>9619042</td>
<td>4&quot; Type 27 Guard</td>
<td>UT2740-1</td>
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<td>9804535</td>
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<td>9804536</td>
<td>4-1/2&quot; Type 27 Guard</td>
<td>UT8780</td>
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<td>985053</td>
<td>5&quot; Type 27 Guard</td>
<td>UT8785-5</td>
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<tr>
<td>95B-3011834</td>
<td>4&quot; Type 27 Guard</td>
<td>UT8748-4</td>
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<td>95B-321142</td>
<td>4&quot; Type 27 Guard</td>
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<td>987053</td>
<td>7&quot; Type 27 Guard</td>
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<tr>
<td>988040</td>
<td>7&quot; Type 27 Guard</td>
<td>UT8767, UT8767-23</td>
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<tr>
<td>95G-300V43</td>
<td>7&quot; Type 27 Guard</td>
<td>UT300V-60-7, UT300V-72-7, UT400V-60-7, UT 8768-3V Series</td>
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<tr>
<td>95H-400V43</td>
<td>9&quot; Type 27 Guard</td>
<td>UT300V-60-9, UT400V-60-9, UT 8768-4V Series</td>
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<tr>
<td>988040-1</td>
<td>9&quot; Type 27 Guard</td>
<td>UT8769, UT8769-23</td>
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<td>92001-5059</td>
<td>6&quot; Type 1 Cup Wheel Guard</td>
<td>UT200H-60-6</td>
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<td>4&quot; Type 1 Cut-off Guard</td>
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#### Die Grinder Collets and Wrenches

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<td>308024-1</td>
<td>6mm Precision Collet</td>
<td>UT8728, UT8728E, UT8728S, UT8728SE, UT8729-12, UT8729-18</td>
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<tr>
<td>9308024</td>
<td>1/4&quot; Precision Collet</td>
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<tr>
<td>9872629</td>
<td>1/4&quot; Precision Collet Nut</td>
<td>UT8728, UT8728E, UT8728S, UT8728SE, UT8729-12, UT8729-18</td>
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<td>9872827</td>
<td>1/4&quot; Precision Collet Body</td>
<td>UT8728, UT8728E, UT8728S, UT8728SE</td>
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<td>9872927</td>
<td>1/4&quot; Precision Collet Body</td>
<td>UT8729-12, UT8729-18</td>
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<tr>
<td>9308026</td>
<td>1/4&quot; Precision Collet Wrench</td>
<td>UT8728, UT8728E, UT8728S, UT8728SE, UT8729-12, UT8729-18</td>
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<tr>
<td>9308024</td>
<td>1/4&quot; Precision Collet</td>
<td>UT8724, UT8724-12, UT8724-20</td>
</tr>
<tr>
<td>9872412</td>
<td>1/4&quot; Precision Collet Nut</td>
<td>UT8724, UT8724-12, UT8724-20</td>
</tr>
<tr>
<td>9872411</td>
<td>1/4&quot; Precision Collet Body</td>
<td>UT8724</td>
</tr>
<tr>
<td>9872425</td>
<td>1/4&quot; Precision Collet Body</td>
<td>UT8724-12, UT8724-20</td>
</tr>
<tr>
<td>9872429</td>
<td>1/4&quot; Precision Collet Wrench</td>
<td>UT8724, UT8724-12, UT8724-20</td>
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<tr>
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<td>8624100</td>
<td>1/4&quot; Erickson® Collet Nut</td>
<td>UT4420</td>
</tr>
<tr>
<td>8686400</td>
<td>1/4&quot; Erickson® Collet Body</td>
<td>UT4420</td>
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<tr>
<td>C-119729</td>
<td>1/4&quot; Erickson® Collet</td>
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<td>9035031082</td>
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<td>UT4425, UT4425E-1</td>
</tr>
<tr>
<td>9067011082</td>
<td>1/4&quot; Erickson® Collet Body</td>
<td>UT4425, UT4425E-1</td>
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<tr>
<td>C-119730</td>
<td>3/8&quot; Erickson® Collet</td>
<td>UT4425, UT4425E-1</td>
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<td>5910</td>
<td>1/4&quot; General Purpose Collet Set</td>
<td>All 3/8 - 24&quot; Spindle Tools</td>
</tr>
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<td>5909-1/8</td>
<td>1/8&quot; General Purpose Collet</td>
<td>All 3/8 - 24&quot; Spindle Tools</td>
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<tr>
<td>5901</td>
<td>1/4&quot; General Purpose Collet Nut</td>
<td>All 3/8 - 24&quot; Spindle Tools</td>
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<tr>
<td>5905</td>
<td>1/4&quot; General Purpose Collet Wrench</td>
<td>5900 &amp; 3751</td>
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<td>5908</td>
<td>1/8&quot; Slip Collet Insert</td>
<td>All 1/4&quot; collet</td>
</tr>
<tr>
<td>Reference Number</td>
<td>Part Number</td>
<td>Description</td>
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<tr>
<td>------------------</td>
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<tr>
<td>1</td>
<td>6369</td>
<td>(1) Pc. 1/4&quot; NPT Male Threads Drain Cock</td>
</tr>
<tr>
<td>2</td>
<td>6360</td>
<td>(3) Pc. 1/4&quot; NPT Male Threads Brass Connector Kit</td>
</tr>
<tr>
<td>3</td>
<td>6361</td>
<td>(2) Pc. 1/4&quot; NPT Female Threads Brass Connector Kit</td>
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<tr>
<td>4</td>
<td>6362</td>
<td>(2) Pc. 3/8&quot; to 1/4&quot; NPT Threads Brass Adapter Kit</td>
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<tr>
<td>5</td>
<td>6363</td>
<td>(2) Pc. 3/8&quot; NPT Female and Male Connector Kit</td>
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<td>6</td>
<td>6372</td>
<td>(1) Pc. Industrial Body, 1/4&quot; NPT Female Threads-Quick Connect Coupler</td>
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<tr>
<td>7</td>
<td>6373</td>
<td>(1) Pc. Universal Body, 1/4&quot; NPT Female Threads-Quick Connect Coupler</td>
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<tr>
<td>8</td>
<td>6374</td>
<td>(3) Pc. Industrial Body, 1/4&quot; NPT Male Threads-Quick Connect Studs</td>
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<tr>
<td>9</td>
<td>6375</td>
<td>(2) Pc. Industrial Body, 1/4&quot; NPT Female Threads-Quick Connect Studs</td>
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<tr>
<td>10</td>
<td>6376</td>
<td>(2) Pc. Industrial Body, 3/8&quot; NPT Threads (Male and Female) Quick Connect Studs</td>
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<tr>
<td>11</td>
<td>6377</td>
<td>(3) Pc. Universal Coupler Kit-1/4&quot; female NPT Universal Body Quick-Connect coupler/1/4&quot; male NPT Quick-Connect Studs</td>
</tr>
<tr>
<td>12</td>
<td>6378</td>
<td>(3) Pc. Universal Coupler Kit-1/4&quot; female Universal Body Quick-Connect coupler/1/4&quot; male NPT Quick-Connect Studs/3/8&quot; NPT male Quick-Connect Stud</td>
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<tr>
<td>13</td>
<td>6365</td>
<td>1/4&quot; MPT to 1/4&quot; MPT 360 degree swivel</td>
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<tr>
<td>14</td>
<td>6387</td>
<td>(1) Pc. 1/4&quot; NPT Female Professional Blow Gun</td>
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<tr>
<td>16</td>
<td>000740</td>
<td>(1) Pc. 1/2&quot; NPT male Crows Foot connector</td>
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<tr>
<td>16</td>
<td>000744</td>
<td>(1) Pc. 1/2&quot; NPT male Crows Foot connector</td>
</tr>
<tr>
<td>16</td>
<td>000745</td>
<td>(1) Pc. 3/4&quot; NPT male Crows Foot connector</td>
</tr>
<tr>
<td>16</td>
<td>000746</td>
<td>(1) Pc. 3/8&quot; NPT female Crows Foot connector</td>
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<td>16</td>
<td>000747</td>
<td>(1) Pc. 1/2&quot; NPT female Crows Foot connector</td>
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<tr>
<td>17</td>
<td>106145</td>
<td>(1) Pc. 1/2&quot; NPT female to 1/4&quot; NPT male adapter</td>
</tr>
<tr>
<td>18</td>
<td>106150</td>
<td>(1) Pc. 1/2&quot; NPT female to 3/8&quot; NPT male adapter</td>
</tr>
<tr>
<td>19</td>
<td>5711</td>
<td>(1) Pc. 1/4&quot; Regulator</td>
</tr>
</tbody>
</table>
Universal Tool in-line oilers will keep your air tools lubricated continuously for longer life and better performance. These features mean less down time and more convenience. Every in-line oiler is pressure tested and built to last. The metering valve is guaranteed for life, never to fail.

<table>
<thead>
<tr>
<th>Model #</th>
<th>Number</th>
<th>Pipe Size (NPT)</th>
<th>Weight (lbs)</th>
<th>Length x Width x Height (in)</th>
<th>Oil Capacity (oz)</th>
<th>Air Capacity (scfm)</th>
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<tbody>
<tr>
<td>UTA85830</td>
<td>–</td>
<td>1/4</td>
<td>.10</td>
<td>2-1/2 x 1-1/8 x 1-1/8</td>
<td>20</td>
<td>40</td>
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<tr>
<td>UT9310-1</td>
<td>0</td>
<td>1/2</td>
<td>1</td>
<td>4-1/2 x 2-3/8 x 2-13/16</td>
<td>1.40</td>
<td>100</td>
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<tr>
<td>UT9320-1</td>
<td>1</td>
<td>3/4</td>
<td>1-1/2</td>
<td>6 x 2-7/8 x 3-3/8</td>
<td>4.00</td>
<td>175</td>
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<tr>
<td>UT9330-1</td>
<td>2</td>
<td>3/4</td>
<td>2</td>
<td>7 x 3-3/8 x 3-11/16</td>
<td>11.00</td>
<td>175</td>
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<tr>
<td>UT9340-1</td>
<td>3</td>
<td>1</td>
<td>4-1/4</td>
<td>10 x 3-7/8 x 4-3/16</td>
<td>16.00</td>
<td>350</td>
</tr>
</tbody>
</table>

Air capacity based on 100 PSI air pressure and single tool application.

Air Tool Lubricants
5809 Mini Grease Gun
5815 Air Tool Lubricant 4oz.
**TG-250 Dynamic Pressure Test Gauge**

The TG-250 Dynamic Pressure Gauge with universal quick coupler assists in measuring the air pressure at the tool level - ensuring sufficient pressure to allow the tool to perform to specifications.

The TG250 should be installed between the air supply line (C) and the air tool (A).

---

**Mounted Wheel**

- 5615 3/4" Cone (set of 10)
- 5616 1" Round (set of 10)
- 5617 1-1/4" Flat
- 5618 1" Cylinder (set of 10)
- 5619 3/4" Cylinder
- 5620 5 Pc. Set (Includes 1 ea. above)

---

**Cut-Off Wheels**

122060 Six Standard-Duty Cut Off Wheels

---

**Carbide Burr Set**

5378 3 piece double cut 1/4" shank for use with deburring applications
Use of Accessories with Air Tools

- When selecting the correct accessory to use with your Air Tool(s) the following points must be carefully checked.
- The accessory is rated to run at or above the maximum rated speed of the Air Tool that you plan to use it on. Air Tool Manufacturers specify these speeds in their catalogs and operator instructions.
- Accessories used on Abrasive Tools, Impact Wrenches, Nut Runners, Ratchets, Air Hammers and Scaling Hammers must be rated for use with the relevant Air Tool.
- Any accessory used should be of the correct size and design for the Air Tool(s) that you plan to use it with.
- Worn accessories should not be used and accessories should not be modified in any way.
- Mounting and fitting instruction for any accessory to be used on an Air Tool must be carefully followed at all times.
- Use of worn or incorrect accessories may reduce tool performance, create excessive tool wear and can be hazardous.
- Always disconnect the tool from the air supply when changing of fitting accessories, guards or other fittings.

Operator Training for Air Tool; Air Tool Accessory and Compressed Air Use

- All operators should be trained in the correct installation and use of the Air Tool/s that they are required to operate.
- All operators should be trained to understand the safety instructions provided by the Air Tool Manufacturer, for each Air Tool that they are required to operate.
- All operators should be trained in the safe use of Compressed Air and the use of associated Air Hoses, Connectors and Air Tool Accessories.
- All operators should be trained to operate Air Tools and Accessories safely and correctly on the application that you plan to use them for.
- Operators or service personnel should be trained to ensure that the Air Installation, Lubricators, Filters, Regulators, Hoses and Air Nipples and Connectors are checked regularly to ensure that they meet the requirements set on a continuous basis.

Safety and Hazards Related to Air Tool Use

- Universal Tool provides clear Safety and Hazard Warning Information in their Catalogs, Operator Instructions, and on its Tools.
- ANSI also provide safety information. The following Hazard /Safety Instructions must be followed at all times:

- Compressed Air Hazard.
- Projectile Hazard.
- Breathing Hazard.
- Vibration Hazard.
- Hearing Hazard.
- Entanglement Hazard.
- Use of Safety Wear and Eye, Ear and Hand Protection.
- Use of Abrasive Tools.
- Use of Impact Tools.
- Use of Assembly Tools, Drills and Screwdrivers.
- Use of Air Hammers, Chipping and Scaling Hammers.
- Correct fitting and use of Accessories.
- Never to service, inspect the tool, or change an accessory while the Air Supply to the Air Tool is still connected.

AIR SUPPLY

Tools of this class operate on a wide range of air pressure. It is recommended that air pressure of these tools measures 90 PSI at the tool while running free. Higher pressure and unclean air will shorten the tool’s life because of faster wear and may create a hazardous condition and void the warranty. Water in the air line will cause damage to the tool. Drain the air tank daily. Clean the air inlet filter screen on at least a weekly schedule. The recommended hookup procedure can be viewed in the illustration below. The air inlet, used for connecting air supply, has standard NPT American Thread. Refer to tool specification for specific size requirement. Line pressure should be increased to compensate for unusually long air hoses (over 25 feet). Review tool specification for minimum hose diameter should be 3/8” I.D. and fittings should have the same inside dimensions.
## Air Tool Tips

<table>
<thead>
<tr>
<th>Set-Up</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Air Pressure</strong></td>
<td></td>
</tr>
<tr>
<td>Pressure Less Than 90 PSI</td>
<td>Low air pressure reduces motor speed and torque, and the tool will not perform to specification.</td>
</tr>
<tr>
<td>Pressure Higher than 90 PSI</td>
<td>High pressure increases motor speed and torque and leads to premature tool wear and is hazardous.</td>
</tr>
<tr>
<td><strong>Air Volume</strong></td>
<td>Insufficient Air Volume</td>
</tr>
<tr>
<td><strong>Hoses &amp; Nipples</strong></td>
<td>Rated ID Hoses</td>
</tr>
<tr>
<td>Rated Nipple Size</td>
<td>Rated inside diameter hoses should be used throughout installation.</td>
</tr>
<tr>
<td>Not Using Rated Sizes</td>
<td>Rated nipple size should be used throughout installation.</td>
</tr>
<tr>
<td><strong>Lubrication</strong></td>
<td>Air Motors Need Lubrication</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td>Rated Speed Abrasives</td>
</tr>
<tr>
<td><strong>Sockets</strong></td>
<td>Always Use Impact Sockets</td>
</tr>
<tr>
<td>Worn Sockets</td>
<td>Chrome sockets may fracture and will wear prematurely and are hazardous.</td>
</tr>
<tr>
<td><strong>Performance Symptom</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Low Power</strong></td>
<td>Check 1</td>
</tr>
<tr>
<td>Check 2</td>
<td>Check hoses &amp; nipples are rated size—if not change</td>
</tr>
<tr>
<td>Check 3</td>
<td>See if tool is lubricated—if not lubricate &amp; re-test tool</td>
</tr>
<tr>
<td>With impact wrenches check that hammer mechanism is lubricated</td>
<td></td>
</tr>
<tr>
<td>If none of the Above Work the tool should be sent to service center</td>
<td></td>
</tr>
<tr>
<td><strong>Low/no rotation</strong></td>
<td>Check 1</td>
</tr>
<tr>
<td>Check 2</td>
<td>If tool was not regularly lubricated the motor is probably rusted or gummed-up</td>
</tr>
<tr>
<td>Attempt to rotate the tool by hand, if tool moves a part turn then stops the hammers or gears or rotor blades are probably broken-send the tool to a service center</td>
<td></td>
</tr>
<tr>
<td><strong>Tool runs in off position</strong></td>
<td>Check 1</td>
</tr>
<tr>
<td>Disassemble throttle valve and relocate or replace the “O” Ring or valve seat</td>
<td></td>
</tr>
<tr>
<td><strong>Anvil Vibrates</strong></td>
<td>Check 1</td>
</tr>
<tr>
<td>Replace bushing in nose piece of hammer case</td>
<td></td>
</tr>
<tr>
<td><strong>Premature Wear</strong></td>
<td></td>
</tr>
<tr>
<td>Anvil Worn Round</td>
<td>Check 1</td>
</tr>
<tr>
<td>If chrome or worn sockets were used this is the cause</td>
<td></td>
</tr>
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</table>

### Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The tool runs slowly or will not operate.</td>
<td>There is grit or gum in the tool.</td>
<td>Flush the tool with air tool oil or gum solvent.</td>
</tr>
<tr>
<td></td>
<td>The tool is out of oil.</td>
<td>Lubricate the tool according to the lubrication instructions in this manual.</td>
</tr>
<tr>
<td></td>
<td>The air pressure is low.</td>
<td>□ Adjust the regulator on the tool to the maximum setting.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Adjust the compressor regulator to the tool’s maximum setting of 90 psi.</td>
</tr>
<tr>
<td></td>
<td>The air hose leaks.</td>
<td>Tighten and seal the hose fittings with pipe thread tape if leaks are found.</td>
</tr>
<tr>
<td></td>
<td>The air pressure drops.</td>
<td>□ Ensure the hose is the proper size. Long hoses or tools using large volumes of air may require a hose with an I.D. of 1/2 in. or larger depending on the total length of the hose.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Do not use a multiple number of hoses connected together with a quick connect fitting. This causes additional pressure drops and reduces the tool power. Directly connect the hoses together.</td>
</tr>
<tr>
<td></td>
<td>There is a worn rotor blade in the motor.</td>
<td>Replace the rotor blade.</td>
</tr>
<tr>
<td></td>
<td>There is a worn ball bearing in the motor.</td>
<td>Remove and inspect the bearing for rust, dirt, and grit. Replace or clean and grease the bearing with bearing grease.</td>
</tr>
<tr>
<td>There is moisture blowing out of the tool’s exhaust.</td>
<td>There is water in the tank.</td>
<td>Drain the tank. (See the air compressor manual for instructions.) Lubricate the tool and run it until water is not evident. Lubricate the tool again and run for 1–2 seconds.</td>
</tr>
</tbody>
</table>

### Impact Wrenches Only

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The tool impacts slowly or not at all.</td>
<td>The tool needs lubricating.</td>
<td>Lubricate the air motor and the impact mechanism according to the lubrication instructions in this manual.</td>
</tr>
<tr>
<td></td>
<td>The tool regulator setting is in the wrong position.</td>
<td>Adjust the regulator on the tool to the maximum setting.</td>
</tr>
<tr>
<td>The tool impacts rapidly, but will not remove bolts.</td>
<td>The tool has a worn impact mechanism.</td>
<td>Replace the worn impact mechanism components.</td>
</tr>
</tbody>
</table>
## AIR TOOL TIPS, TROUBLESHOOTING & SERVICE CENTERS

Your local Universal Tool Authorized Factory Service Centers can provide service, replacement parts and warranty service.

<table>
<thead>
<tr>
<th>STATE/PROVINCE</th>
<th>CITY</th>
<th>REPAIR CENTER</th>
<th>ADDRESS</th>
<th>ZIP</th>
<th>PHONE</th>
<th>TAX</th>
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<tbody>
<tr>
<td>Alabama</td>
<td>Birmingham</td>
<td>Tool-Smith</td>
<td>1300 4th Ave South</td>
<td>35233</td>
<td>205.323.2576</td>
<td>205.323.9060</td>
</tr>
<tr>
<td>Alabama</td>
<td>Mobile</td>
<td>Tool-Smith</td>
<td>927 Lakeside Drive</td>
<td>36693</td>
<td>251.661.0404</td>
<td>251.661.8970</td>
</tr>
<tr>
<td>Alberta</td>
<td>Stony Plain</td>
<td>Duke's Air Tool Repair</td>
<td>232, 340 48 Street</td>
<td>172 1W2</td>
<td>780.907.1392</td>
<td>780.391.4008</td>
</tr>
<tr>
<td>British Columbia</td>
<td>Burnaby</td>
<td>Westcoast Tool Sales &amp; Repair</td>
<td>4008 Myrtle Street</td>
<td>V5C 4G2</td>
<td>604.873.5394</td>
<td>604.873.5313</td>
</tr>
<tr>
<td>British Columbia</td>
<td>Richmond</td>
<td>B.B. Tool Repair</td>
<td>12900 Jack Bell Road, Unit 1</td>
<td>V6Y 2V8</td>
<td>604.303.0131</td>
<td>604.303.0134</td>
</tr>
<tr>
<td>California</td>
<td>Visalia</td>
<td>CTS&amp;S Aauto Repair</td>
<td>1805 E Main St Bldg. E</td>
<td>92292</td>
<td>559.623.2157</td>
<td>559.734.4148</td>
</tr>
<tr>
<td>Florida</td>
<td>Spring Hill (Tampa)</td>
<td>R&amp;R Tool Repair, Inc.</td>
<td>13637 Linden Drive</td>
<td>34609</td>
<td>352.263.3587</td>
<td>352.200.7587</td>
</tr>
<tr>
<td>Georgia</td>
<td>Marietta</td>
<td>Tool Service Company</td>
<td>178 Marble Mill Road</td>
<td>30060</td>
<td>404.524.4249</td>
<td>770.908.8082</td>
</tr>
<tr>
<td>Georgia</td>
<td>Norcross</td>
<td>Tool Smith</td>
<td>5600 Oakbrook Pkwy. #140</td>
<td>30093</td>
<td>770.448.4444</td>
<td>770.448.7959</td>
</tr>
<tr>
<td>Illinois</td>
<td>Elk Grove Village</td>
<td>Illinois Tool Service</td>
<td>1483 Landmeir Unit J</td>
<td>60007</td>
<td>847.228.1902</td>
<td>847.228.1913</td>
</tr>
<tr>
<td>Indiana</td>
<td>Indianapolis</td>
<td>YAMACO</td>
<td>6718 East 38th Street</td>
<td>46226</td>
<td>317.632.2208</td>
<td>317.244.3920</td>
</tr>
<tr>
<td>Kansas</td>
<td>Salina</td>
<td>Tool Time</td>
<td>420 N Santa Fe Ave.</td>
<td>67401</td>
<td>785.833.5236</td>
<td>NA</td>
</tr>
<tr>
<td>Kentucky</td>
<td>Louisville</td>
<td>Tool Repair Service, Inc.</td>
<td>1200 Goss Ave.</td>
<td>40217</td>
<td>502.635.6888</td>
<td>502.634.1931</td>
</tr>
<tr>
<td>Louisiana</td>
<td>Des Allemands</td>
<td>Bayou Tool Service</td>
<td>4046 US 90 East</td>
<td>70030</td>
<td>985.758.3700</td>
<td>985.758.3517</td>
</tr>
<tr>
<td>Louisiana</td>
<td>Shreveport</td>
<td>Shreveport Air Tool, Inc.</td>
<td>125 Freestate Blvd.</td>
<td>71107</td>
<td>318.227.9412</td>
<td>318.227.0013</td>
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<tr>
<td>Michigan</td>
<td>Detroit</td>
<td>Billow Company</td>
<td>15335 Dale Street</td>
<td>48223</td>
<td>313.235.4646</td>
<td>313.235.4664</td>
</tr>
<tr>
<td>Michigan</td>
<td>Garden City</td>
<td>Midwest Tool Solutions</td>
<td>29931 Henepin Street</td>
<td>48135</td>
<td>313.903.5203</td>
<td>734.427.0978</td>
</tr>
<tr>
<td>Minnesota</td>
<td>Bloomington</td>
<td>Delegard</td>
<td>9141 Lyndale Ave. S</td>
<td>55987</td>
<td>800.328.2897</td>
<td>952.884.5030</td>
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<td>Minnesota</td>
<td>Cyrus</td>
<td>Air Tool Clinic</td>
<td>106 West Main Street</td>
<td>56323</td>
<td>320.795.2221</td>
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<td>Minnesota</td>
<td>Maple Grove</td>
<td>Tool Warehouse, Inc.</td>
<td>19520 County Road B1</td>
<td>55374</td>
<td>763.428.4260</td>
<td>763.428.4270</td>
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<td>Minnesota</td>
<td>St. Cloud</td>
<td>Tool Warehouse Inc</td>
<td>9 Lincoln Ave. SE</td>
<td>56304</td>
<td>320.253.7150</td>
<td>320.253.5905</td>
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<td>Missouri</td>
<td>Blue Springs</td>
<td>Clark’s Tool &amp; Equipment</td>
<td>815 W 40 Hwy.</td>
<td>64015</td>
<td>816.228.9885</td>
<td>816.228.2062</td>
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<td>Nebraska</td>
<td>Omaha</td>
<td>Thacker Electric Co.</td>
<td>8517 1 Street</td>
<td>68127</td>
<td>402.592.9433</td>
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<td>New York</td>
<td>Brooklyn</td>
<td>Five Boro Pneu-Tronics</td>
<td>801 East 42nd Street</td>
<td>11210</td>
<td>718.338.8911</td>
<td>718.338.8914</td>
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<td>New York</td>
<td>Syracuse</td>
<td>Ace Hydraulic Service</td>
<td>6720 VIP Pkwy.</td>
<td>13211</td>
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<td>North Dakota</td>
<td>West Fargo</td>
<td>Tool Warehouse Inc</td>
<td>127 Main Ave. West</td>
<td>58078</td>
<td>701.282.6151</td>
<td>701.282.6083</td>
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<td>Ohio</td>
<td>Tolmache</td>
<td>Power Tool Repair, Inc.</td>
<td>371 West Ave.</td>
<td>44278</td>
<td>330.630.0022</td>
<td>330.630.3320</td>
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<td>Ohio</td>
<td>Cleveland</td>
<td>Tri County Power Tool</td>
<td>1300 Brookpark Rd.</td>
<td>44109</td>
<td>866-875-8278</td>
<td>516.398.6121</td>
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<td>Oklahoma</td>
<td>Oklahoma City</td>
<td>Hydraulic Equipment</td>
<td>2800 W. California Ave.</td>
<td>73107</td>
<td>405.235.3310</td>
<td>405.232.4722</td>
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<td>Ontario</td>
<td>Toronto</td>
<td>HT Pneumatic Rebuilders</td>
<td>22 Goodmark Place, Unit B</td>
<td>M9W 6R2</td>
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<td>416.213.9537</td>
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<td>Oregon</td>
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<td>Charles H Day Co</td>
<td>11405 SE 37th Ave.</td>
<td>97222</td>
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<td>Pennsylvania</td>
<td>Hanover</td>
<td>Contract Tool Repair</td>
<td>126 Rear Carlisle Street</td>
<td>17331</td>
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<td>Pennsylvania</td>
<td>Litz</td>
<td>PaulB LLC</td>
<td>50 Wood Corner</td>
<td>17543</td>
<td>717.738.7350</td>
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<td>Quebec</td>
<td>Gatineau</td>
<td>L’entrepot D’outillage</td>
<td>156 rue de Varennes</td>
<td>J8T 8G4</td>
<td>819.771.9393</td>
<td>819.771.2745</td>
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<tr>
<td>Tennessee</td>
<td>Chattanooga</td>
<td>Tools &amp; Hydraulics</td>
<td>910-C Creekside Rd</td>
<td>37422</td>
<td>423.622.8282</td>
<td>423.629.0125</td>
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<td>Tennessee</td>
<td>Nashville</td>
<td>Tool-Smith</td>
<td>665 Massman Drive</td>
<td>37210</td>
<td>615.883.4833</td>
<td>615.883.4236</td>
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<td>Texas</td>
<td>Deer Park</td>
<td>Power Tool Service and Supply</td>
<td>1213 Georgia Ave.</td>
<td>77536</td>
<td>713.228.0100</td>
<td>281.476.9810</td>
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<td>Texas</td>
<td>Laredo</td>
<td>Worldwide Automation</td>
<td>920 Santa Maria Ave.</td>
<td>78040</td>
<td>956.727.0441</td>
<td>856.723.6528</td>
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<td>Washington</td>
<td>Spokane Valley</td>
<td>Air Electric Equipment and Tools, Inc.</td>
<td>5603 E 3rd Ave.</td>
<td>99212</td>
<td>800.348.8337</td>
<td>509.334.3752</td>
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<tr>
<td>Wisconsin</td>
<td>New Berlin</td>
<td>Professional Tool Center</td>
<td>16333 W.Rogers Dr.</td>
<td>53151</td>
<td>262.432.9307</td>
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<td>Wisconsin</td>
<td>Greenbay</td>
<td>Power Tool Service Co.</td>
<td>1180 Ashwaubenon Street</td>
<td>54304</td>
<td>920.983.4480</td>
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</table>
Mission Statement

To lead our industry in quality and depth of products offered; while developing long term mutually beneficial business partnerships with valued customers and distributors alike.

To maintain and develop our established position as a US based manufacturer, and balance this with global manufacturing at carefully selected strategic partner factories, where our concepts of quality and dependability are shared.

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