



# UNITEC

**ELECTRIC • PNEUMATIC • HYDRAULIC**



**Hole Cutting  
Twist Drilling  
Tapping  
Reaming  
Countersinking**



**Magnetic Drills  
Annular Cutters  
Hand-held Drills  
Drive Units  
Nut Runners  
Hammer Drills  
Beveling Machines**

## Fast, accurate hole cutting on the job site or in the shop!

CS Unitec's portable magnetic drills are ideal for drilling structural steel and virtually any metal. We offer the most compact and powerful series of portable magnetic drills for holes up to 5" diameter. All CS Unitec drills are heavy-duty for use in construction and industry. Our complete product line includes electric, pneumatic and hydraulic. They are available for prompt delivery.

CS Unitec is the industry leader in:

- Power-to-weight ratios
- Strongest clamping force high-density (HD) dual-coil magnets
- Magnetic drills for tapping
- Annular Cutters: TiAIN, HSS, cobalt steel, & carbide-tipped

We offer:

- Variable-speed, multiple-gear models
- Electric, pneumatic and hydraulic power
- Reversible motors for tapping and machining
- Swivel base stand for hard-to-reach areas

### Special Features

The magnetic force of your magnet depends on a number of factors:

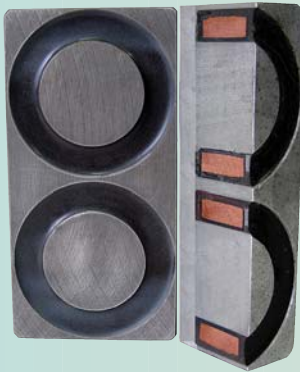
- Thickness of material being drilled
- Coatings or paint layers on material
- Chips, dirt or grease between the magnet and the material



**EXTRA SAFETY**



The **SENSORTEC™ System** measures whether the magnet has sufficient adhesive force on the material. An LED indicator on the switch panel warns you of insufficient magnetic force (**Red Light**) or if the correct force is present (**Green Light**).



High-density (HD) dual-coil magnets are wound in two circles to increase the surface area and density of the magnetic field. The higher density increases the magnetic force by over 100% as compared to a single rectangular coil commonly used in electromagnetic drills.



**LONGER SERVICE LIFE**

**TEMPTEC™ Magnet**

**TEMPTEC™ Electromagnets** ensure that the magnet does not overheat. When the magnet is switched on for long periods of time, the coils could overheat or even burn out. The **TEMPTEC** feature ensures that the power of the magnets is reduced when the drill motor is not active. Therefore, it won't build up heat.



Keyless arbor allows easy, no-tools changeover of Annular Cutters. No more searching for allen keys or set screws – just twist and lock. Included on ECO-50, ECO-80 and ECO-100 series drills.

**ARMOR-PLATED™ TiAIN Cutters** are ideal for all drilling applications. A high surface hardness and greater lubricity allow drilling at high operating temperatures with more power and speed.



## Special Features



Many drills are offered with forward and reverse capabilities, allowing drilling and tapping with one unit.

High-torque motors are double insulated to increase operator safety.



Variable-speed dial on some models lets the operator adjust speed to match cutter diameter to correct RPM. This provides increased tool life and reduces cutter breakage.

Optional Power Assist provides delayed torque transfer, decreasing the load on both the cutter and machine. This allows the machine to maintain maximum RPM under full load. See page 23 for more information.



**ATEX Approved**

Some Pneumatic tools are ATEX Approved for use in hazardous and potentially explosive atmospheres.

## Tool and Accessory Index:

### Portable Magnetic Drills p. 4-17

- Electric** p. 4-13
- Drill up to 1 1/8" dia. holes p. 4
- Drill up to 1 1/4" dia. holes p. 6-7
- Drill up to 1 1/2" dia. holes p. 5, 13
- Drill up to 2" dia. holes p. 8-9
- Drill up to 3 3/16" dia. holes p. 10
- Drill up to 4" dia. holes p. 11
- Drill up to 5" dia. holes p. 12
- Pneumatic** p. 14
- Hydraulic** p. 15
- Beveling Machines** p. 16-17

### Unibroach® Annular Cutters p. 18-22

- Annular Cutters** p. 18
- ARMOR-PLATED™ Cutters, HSS Cutters** p. 19-21
- Special Cutters and Cutter Kits** p. 22

### Accessories p. 23-26

- Lubricants and Cutting Oil** p. 23
- Power Assist** p. 23
- Pilot Pins and Drill Chucks** p. 24
- Tapping Tools** p. 24, 25
- Countersinks and Twist Drills** p. 25
- Arbors and Extensions** p. 25-26
- Pipe Saddles** p. 26

### Hand-held Drills, Drive Units & More p. 27-35

- Electric, Slow-speed Electric** p. 27-28
- Pneumatic** p. 29
- Pneumatic/Hydraulic Corner Drills** p. 30
- Pneumatic/Hydraulic Rotary Hammers** p. 31
- Pneumatic Woodboring Drills** p. 32
- Pneumatic/Hydraulic Nut Runners** p. 33
- Pneumatic/Hydraulic Drive Units** p. 34
- Pneumatic Chisel/Needle Scalers** p. 35

### Warranty

Products of CS Unitec, Inc. are warranted to be free from defects in material and workmanship for one year from date of purchase. This warranty does not apply to normal wear or products which have been abused, misused, modified or repaired by someone other than CS Unitec, Inc. or its Authorized Service Representatives.

If a product proves defective in material or workmanship within one year after purchase, return it to CS Unitec, Inc. or an Authorized Service Center, transportation prepaid. CS Unitec, Inc. will, at its option, repair or replace defective products free of charge.

CS Unitec, Inc.'s sole liability and your exclusive remedy under this warranty is limited to repair or replacement of the defective product. There are no other warranties expressed or implied and CS Unitec, Inc. shall not be liable for incidental, consequential or special damages, or expenses excepting only the cost or expense of repair or replacement as described above.



# ECO™-30/3P



## Ultra-compact and lightweight with power assist



Model ECO-30/3P

- Compact height of 12<sup>1</sup>/<sub>4</sub>"
- Lightweight at 22 lbs.
- Patented power-assist mechanism reduces feed pressure to help prevent motor burn-out and cutter breakage
- Strong 7.5 Amp double-insulated motor
- Powerful high-density dual-coil magnet has superior holding strength of 3300 lbs.
- Drills up to 1<sup>1</sup>/<sub>8</sub>" diameter holes with Annular Cutters
- One-year warranty

Patented power-assist mechanism reduces load on motor and cutter. Standard with ECO-30/3P. See page 23.



**TEMPTEC™ Magnet**  
See page 2



Standard equipment includes auto lubrication, carrying case, chip guard, safety chain, carabin hook, gloves, safety glasses, ear protection and allen keys.

Model ECO-30/3P has an integrated auto-lubrication system.



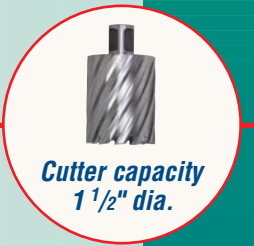
Cutter capacity up to 1<sup>1</sup>/<sub>8</sub>" dia., stroke: 2<sup>3</sup>/<sub>4</sub>"

See pages 18-26 for Annular Cutters and Accessories.

### Model ECO-30/3P

Motor Power	7.5 Amp / 110 Volt*
Weight	22 lbs.
Hole Capacity	1 1/8"
Speed	450 RPM
Magnet Base Size	6 3/8" L x 3 1/4" W
Dimensions	12 1/4" H x 9 3/8" L x 6 3/8" W
Magnetic Force (1" Plate)	3300 lbs.
Arbor Bore	3/4"
Automatic Lubrication	Included

\* 220 Volt / 50 Hz also available



## Heavy-duty compact hole drilling machine



Model MDM-40

- Powerful hole cutting machine for steel fabricators, bridge contractors and plant maintenance
- Compact height of 13" allows drilling in tight spaces
- Lightweight and portable at only 24 lbs. for use on the job site or in the shop
- Strong 9.25 Amp double-insulated motor
- One-piece motor mount and arbor support for added strength and stability
- High-density dual-coil magnet has holding strength of 2640 lbs.
- Drills up to 1 1/2" diameter holes with Annular Cutters
- One-year warranty



All CS Unitec high-density dual-coil magnets are ground, not cast, and are wound into two circles to increase the surface area and density of the magnetic field.



Standard equipment includes auto lubrication, carrying case, safety strap, carabin hook, gloves, safety glasses, ear protection and allen keys.



Cutter capacity up to 1 1/2" dia. stroke: 3 1/8"

See pages 18-26 for Annular Cutters and Accessories.

### Model MDM-40

Motor Power	9.25 Amp / 110 Volt
Weight	24 lbs.
Hole Capacity	1 1/2" dia.
No Load Speed	440 RPM
Magnet Base Size	6 1/2" L x 3 1/4" W
Dimensions	13" H x 9 1/2" L x 7" W
Magnetic Force (1" plate)	2640 lbs.
Arbor Bore	3/4"
Automatic Lubrication	Included

\* 220 Volt / 50 Hz also available



Cutter capacity  
1 1/4" dia.

# ECO™-32 and ECO™-32AK



**Best power-to-weight performance in the industry**



Model ECO-32

- Lightweight and portable at only 24 lbs.
- Compact height of 14 1/4" for drilling in tight spaces
- Strong 8.2 Amp double-insulated motor
- High-density dual-coil magnet has holding strength of 3080 lbs.
- Drills up to 1 1/4" diameter holes with Annular Cutters; up to 1/2" with twist drills
- Optional Power Assist to maintain maximum RPM under full load (Part No. 020.0330)

See page 23 for more information.

**TEMPTEC™ Magnet**

**SENSORTEC™ System**

See page 2



7 1/2" stroke



Model ECO-32AK has an automatic cooling/lubrication system built into the arbor.



Standard equipment includes carrying case, safety chain, carabin hook and allen keys.

Includes one-year warranty

With a 1/2" chuck (Part No. IBK-17), these models easily convert to standard drill presses with a 7 1/2" stroke for conventional twist drills.

## Model ECO-32 and ECO-32AK

Motor Power	8.2 Amp / 110 Volt*
Weight	24 lbs.
Hole Capacity	1 1/4" dia.
Twist Drill Capacity	1/2" dia.
Speed	450 RPM
Magnet Base Size	6 5/16" L x 3 1/4" W
Dimensions	14 1/4" H x 9 1/2" L x 4 3/8" W
Magnetic Force (1" plate)	3080 lbs.
Arbor Bore	3/4"
Manual Lubrication	Order Model ECO-32
Automatic Lubrication	Order Model ECO-32AK

\* 220 Volt / 50 Hz also available \*\* Power Assist Part No. 020.0330

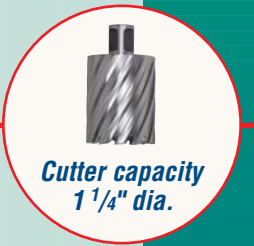


Cutter capacity up to 1 1/4" dia., stroke: 5 3/4"

Twist drill capacity up to 1/2" dia., stroke: 7 1/2"

See pages 18-26 for Annular Cutters and Accessories.

# ECO™-32T and ECO™-32TAK



## Reversible motor for drilling and tapping applications



Model ECO-32T

- Strong 9.5 Amp double-insulated reversible motor
- Stepless variable-speed control, 100-450 RPM
- Compact height of 14 1/4" allows drilling in tight spaces
- Lightweight and portable at only 24 lbs.
- Best power-to-weight ratio in the industry
- HD dual-coil magnet has holding strength of 3080 lbs.
- Drills up to 1 1/4" diameter holes with Annular Cutters and taps up to 3/4"
- Optional Power Assist to maintain maximum RPM under full load (*Part No. 020.0330*)

See page 23 for more information.



With a 1/2" chuck (*Part No. IBK-17*), these models easily convert to standard drill presses with a 7 1/2" stroke for conventional twist drills.



Standard equipment includes carrying case, tap collet set, safety chain, carabin hook and allen keys.



Tap collet set included

Includes one-year warranty



Model ECO-32TAK has an automatic cooling/lubrication system built into the arbor.



### Model ECO-32T and ECO-32TAK

Motor Power	9.5 Amp / 110 Volt*
Weight	24 lbs.
Hole Capacity	1 1/4" dia.
Twist Drill Capacity	1/2" dia.
Tapping Capacity	3/16"-3/4" dia.
Speeds	100-450 RPM
Magnet Base Size	6 5/16" L x 3 1/4" W
Dimensions	14 1/4" H x 9 1/2" L x 4 3/8" W
Magnetic Force (1" plate)	3080 lbs.
Arbor Bore	3/4"
Manual Lubrication	Order Model ECO-32T
Automatic Lubrication	Order Model ECO-32TAK

\* 220 Volt / 50 Hz also available \*\* Power Assist Part No. 020.0330



Cutter capacity up to 1 1/4" dia., stroke: 5 3/4"

Twist drill capacity up to 1/2" dia., stroke: 7 1/2"

Tapping capacity up to 3/4" dia.

See pages 18-26 for Annular Cutters and Accessories.



# ECO™-50 and ECO™-50AK



## Lightweight, two-speed high-performance drill



- Drills up to 2" diameter holes with Annular Cutters
- Lightweight and portable at 29 lbs.
- Strong 10.5 Amp motor and two-speed gearbox
- HD dual-coil magnet has holding strength of 3750 lbs.
- Easy "twist and lock" keyless arbor for cutters
- Compact height of 16½" allows drilling in small spaces
- With a ¾" chuck (Part No. IBK-22), these models easily convert to standard drill presses with a 5" stroke for up to 7/8" dia. twist drills
- Optional Power Assist to maintain maximum RPM under full load (*Part No. 020.0330*)

*See page 23 for more information.*

**TEMPTEC™ Magnet**

**SENORTEC™ System**

*See page 2*

*Model ECO-50AK has an automatic cooling/lubrication system built into the arbor.*



*Standard equipment includes Auto Chuck cutter holder, carrying case, safety chain, carabin hook and allen keys.*

**Includes one-year warranty**

*Model ECO-50 with keyless chuck cutter holder*



*With a ¾" chuck (Part No. IBK-22) or MT2, these models easily convert to standard drill presses with a 5" stroke for conventional twist drills.*



*Cutter capacity up to 2" dia., stroke: 6"*

*Twist drill capacity up to 7/8" dia., stroke: 5"*

**See pages 18-26 for Annular Cutters and Accessories.**

### Model ECO-50 and ECO-50AK

Motor Power	10.5 Amp / 110 Volt*
Weight	29 lbs.
Hole Capacity	2" dia.
Twist Drill Capacity	7/8" dia.
Speeds	Gear 1: 250, Gear 2: 450 RPM
Magnet Base Size	6½" L x 3½" W
Dimensions	16½" H x 9" L x 6¾" W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	¾"
Manual Lubrication	Order Model ECO-50
Automatic Lubrication	Order Model ECO-50AK

\* 220 Volt / 50 Hz also available \*\* Power Assist Part No. 020.0330



# ECO™-50T and ECO™-50TAK



Cutter capacity  
2" dia.

## Reversible motor for drilling and tapping applications



- Variable-speed control in two gears
- Ideal for drilling, tapping and countersinking
- Compact height of 16<sup>1</sup>/<sub>2</sub>"
- Lightweight and portable at 29 lbs.
- Strong 10.5 Amp reversible motor
- HD dual-coil magnet has holding strength of 3750 lbs.
- Easy "twist and lock" keyless arbor
- Drills up to 2" dia. holes with Annular Cutters
- Optional Power Assist to maintain maximum RPM under full load (*Part No. 020.0330*)

See page 23 for more information.



Model ECO-50TAK has an automatic cooling/lubrication system built into the arbor.

**TEMPTEC™ Magnet**

**SENORTEC™ System**

See page 2

With a 3/4" chuck (*Part No. IBK-22*) or MT2, these models easily convert to standard drill presses with a 5" stroke for conventional twist drills.



Model ECO-50T with keyless chuck cutter holder



Standard equipment includes carrying case, tap collet set, safety chain, carabin hook, Auto Chuck cutter holder and allen keys.

Includes one-year warranty



Tap collet set included



Optional quick-change tapping chuck with MT2 connection (*Model GSW.222*) has flexible collet to fit taps 5/16" to 5/8".



### Model ECO-50T and ECO-50TAK

Motor Power	10.5 Amp / 110 Volt*
Weight	29 lbs.
Hole Capacity	2" dia.
Twist Drill Capacity	7/8" dia.
Tapping Capacity	3/16"-15/16" dia.
Speeds	100-250 and 180-580 RPM
Magnet Base Size	7" L x 3 1/2" W
Dimensions	16 1/2" H x 9" L x 6 3/8" W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	3/4"
Manual Lubrication	Order Model ECO-50T
Automatic Lubrication	Order Model ECO-50TAK

\* 220 Volt / 50 Hz also available \*\* Power Assist Part No. 020.0330



Cutter capacity up to 2" dia.

Twist drill capacity up to 7/8" dia.

Tapping capacity up to 15/16" dia.

See pages 18-26 for Annular Cutters and Accessories.



Cutter capacity  
3 3/16" dia.

# ECO™-80AK



## Powerful high-torque motor with multiple speeds



Model ECO-80AK  
with keyless chuck  
cutter holder



Standard equipment includes Auto Chuck cutter holder, carrying case, safety chain and carabin hook.

Includes one-year warranty



Cutter capacity up to 3 3/16" dia., stroke: 10"

Twist drill capacity up to 1 1/4" dia., stroke: 6 1/2" w/chuck

See pages 18-26 for Annular Cutters and Accessories.

- Robust, high-torque 15 Amp motor with four-speed gearbox (100 / 175 / 245 / 385 RPM)
- Multiple speeds match cutter diameter to correct RPM to provide increased tool life and reduced cutter breakage
- High-density dual-coil magnet has holding strength of 7040 lbs.
- Drills up to 3 3/16" diameter holes with annular cutters and 1 1/4" with twist drills
- Keyless arbor for annular cutters
- Mechanical slip clutch disconnects the transmission in case of overload
- Automatic lubrication system
- MT3 output spindle has 11 1/4" max. stroke
- Optional Power Assist to maintain maximum RPM under full load (Part No. 020.0336)

See page 23 for more information.



TEMPTEC™ Magnet

SENORTEC™ System

See page 2



With a 3/4" chuck (Part No. 1BK-21) or MT3, this model easily converts to a standard drill press with a stroke of 6 1/2".

### Model ECO-80AK

Motor Power	15 Amp / 110 Volt*
Weight	57 lbs.
Hole Capacity	3 3/16" dia.
Twist Drill Capacity	1 1/4" dia.
Speeds	100 / 175 / 245 / 385 RPM (4 gears)
Magnet Base Size	9" L x 4 3/8" W
Dimensions	19 1/2" H x 13 3/8" L x 7 1/2" W
Magnetic Force (1" plate)	7040 lbs.
Arbor Bore	3/4" **
Automatic Lubrication	Included

\* 220 Volt / 50 Hz also available \*\* 1 1/4" also available

\*\*\* Power Assist Part No. 020.0336



## Powerful reversible motor for drilling and tapping



Model ECO-100/3AK with keyless chuck cutter holder

- Variable-speed, high-torque 16 Amp motor with 2 gears (40-140 and 120-480 RPM)
- Multiple speeds match cutter dia. to correct RPM to increase life
- Robust machine with 10" stroke is ideal for drilling structural steel
- High-density dual-coil magnet has holding strength of 6600 lbs.
- Drills up to 4" diameter holes with Annular Cutters
- Mechanical slip clutch disconnects the transmission in case of overload
- Variable torque control regulates power output
- Automatic lubrication system
- Optional arbor available for cutters with 1 1/4" Weldon shanks
- MT3 output spindle; 11 1/4" max. stroke
- Optional Power Assist to maintain maximum RPM under full load

(Part No. 020.0336)

See page 23 for more information.



Twist Drilling



Tapping



Reaming

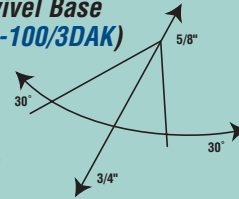


Standard equipment includes Auto Chuck cutter holder, carrying case, safety chain, carabin hook and allen keys.

Includes one-year warranty



Optional Swivel Base (Model ECO-100/3DAK) provides movement through 30° and 3/4".



TEMPTEC™ Magnet

SENSORTEC™ System

See page 2

### Model ECO-100/3AK and ECO-100/3DAK

Motor Power	16 Amp / 110 Volt*
Weight	57 lbs.
Hole Capacity	4" dia.
Twist Drill Capacity	1 1/4" dia.
Tapping Capacity	3/16"-1 1/8" dia.
Speeds	40-140 and 120-480 RPM
Magnet Base Size	9" L x 4" W
Dimensions	19 1/2" H x 13 3/8" L x 7 1/2" W
Magnetic Force (1" plate)	6600 lbs.
Arbor Bore	3/4" **
Automatic Lubrication	Included
Swivel Base	Order Model ECO-100/3DAK

\* 220 Volt / 50 Hz also available \*\* 1 1/4" also available

\*\*\* Power Assist Part No. 020.0336



Cutter capacity up to 4" dia. stroke: 10"

Twist drill capacity up to 1 1/4" dia. stroke: 6 1/2" w/chuck

Tapping capacity up to 1 1/8" dia.

See pages 18-26 for Annular Cutters and Accessories.



# ECO™-130AK



## Triple arbor bearing guidance for drilling up to 5" dia.



Model ECO-130AK

- Strongest magnetic drill press in its class
- Variable-speed and two gears (40-140 and 120-480 RPM)
- Multiple speeds match cutter diameter to correct RPM
- 3<sup>1</sup>/<sub>3</sub>" stroke with special triple arbor bearing guide
- Powerful, high-torque 16 Amp motor with reverse
- Variable torque control regulates power output
- HD dual-coil magnet has holding strength of 10,560 lbs.
- Drills up to 5" diameter holes with TCT Annular Cutters
- Mechanical slip clutch disconnects the transmission in case of overload
- Automatic lubrication system
- Optional Power Assist to maintain maximum RPM under full load  
*(Part No. 020.0336)*  
See page 23 for more information.



Automatic cooling/lubrication system



Triple arbor bearing guide ensures stability for large-diameter hole drilling.

**TEMPTEC™ Magnet**    **SENORTEC™ System**

See page 2

Ideal for use with large-diameter Tungsten Carbide-tipped (TCT) cutters (see page 22).



Standard equipment includes carrying case, safety chain, carabin hook and allen keys.

Includes one-year warranty



Optional <sup>3</sup>/<sub>4</sub>" arbor adapter, P/N IBK-32/19  
Cutter capacity up to 5" dia.

See pages 18-26 for Annular Cutters and Accessories.

### Model ECO-130AK

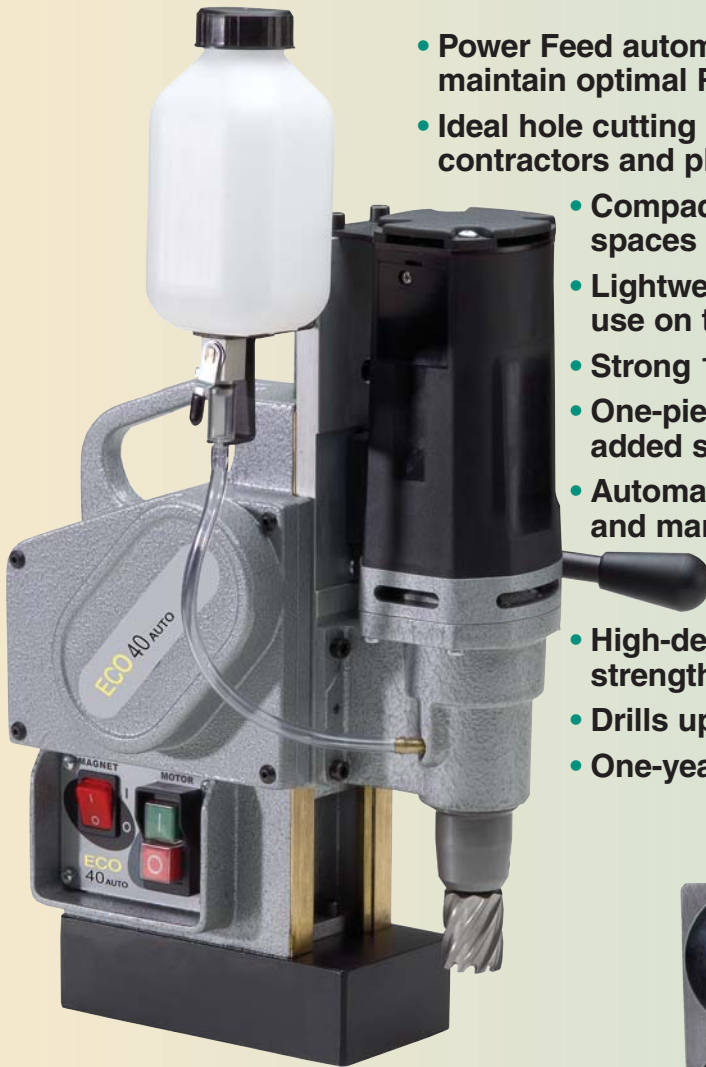
Motor Power	16 Amp / 110 Volt*
Weight	79 lbs.
Hole Capacity	5" dia.
Speeds	40-140 and 120-480 RPM
Magnet Base Size	9 <sup>1</sup> / <sub>2</sub> " L x 4 <sup>3</sup> / <sub>4</sub> " W
Dimensions	26 <sup>1</sup> / <sub>4</sub> " H x 13 <sup>3</sup> / <sub>8</sub> " L x 7 <sup>1</sup> / <sub>2</sub> " W
Magnetic Force (1" plate)	10,560 lbs.
Arbor Bore	1 <sup>1</sup> / <sub>4</sub> "**
Automatic Lubrication	Included

\* 220 Volt / 50 Hz also available    \*\* <sup>3</sup>/<sub>4</sub>" also available, Part No. IBK-32/19  
\*\*\* Power Assist Part No. 020.0336

# ECO™-40 Auto with Power Feed



## Heavy-duty compact drill with automatic feed



Model ECO-40 Auto

- Power Feed automatically controls drill pressure to maintain optimal RPM and feed rate
- Ideal hole cutting machine for steel fabricators, contractors and plant maintenance professionals
- Compact height of 16<sup>1</sup>/<sub>8</sub>" allows drilling in tight spaces
- Lightweight and portable at only 37<sup>1</sup>/<sub>2</sub> lbs. for use on the job site or in the shop
- Strong 10.5 Amp double-insulated motor
- One-piece motor mount and arbor support for added strength and stability
- Automatic feed mechanism with automatic stop and manual retraction
- High-density dual-coil magnet has holding strength of 2640 lbs.
- Drills up to 1<sup>1</sup>/<sub>2</sub>" dia. holes with Annular Cutters
- One-year warranty



All CS Unitec high-density dual-coil magnets are ground, not cast, and are wound into two circles to increase the surface area and density of the magnetic field.

Standard equipment includes auto lubrication, carrying case, safety strap, carabin hook, gloves, safety glasses, ear protection and allen keys.

Includes one-year warranty



Cutter capacity up to 1<sup>1</sup>/<sub>2</sub>" dia. stroke: 3"

See pages 18-26 for Annular Cutters and Accessories.

### Model ECO-40 Auto

Motor Power	10.5 Amp / 110 Volt
Weight	37 <sup>1</sup> / <sub>2</sub> lbs.
Hole Capacity	1 <sup>1</sup> / <sub>2</sub> " dia.
Speed	360 RPM
Magnet Base Size	7 <sup>1</sup> / <sub>16</sub> " L x 3 <sup>1</sup> / <sub>2</sub> " W
Dimensions	16 <sup>1</sup> / <sub>8</sub> " H x 12" L x 7 <sup>3</sup> / <sub>4</sub> " W
Magnetic Force (1" plate)	2640 lbs.
Arbor Bore	<sup>3</sup> / <sub>4</sub> "
Automatic Lubrication	Included



Cutter capacity  
2 1/16" dia.

# AIRBOR™ AB-4300-2 and AB-4300-2R

## Pneumatic power for hazardous environments

**ATEX Approved**

Motor and magnet are powered completely by compressed air



Model AB-4300-2

AIRBOR™ is inherently safer than electromagnetic drills in hazardous atmospheres and wet environments where electricity requires "hot work permits." **ATEX approved.**

- Industry's first completely air-operated magnetic drill – **NO ELECTRICITY!**
  - Fail-safe permanent magnet is activated "on" and "off" by air pressure; in the event of a loss of air flow, the magnet *will not* disengage
- Magnet has a holding strength of 1600 lbs.
- Powerful 1.6 HP drill motor
- Lightweight and portable
- Long drill stroke – up to 10 1/4"
- Drills up to 2 1/16" dia. holes with Annular Cutters
- Pressurized coolant system lubricates cutter and reduces risk of sparking



With a geared chuck adapter (Part No. IBK-18) and extra rack (Model No. AB-4300-2R), AIRBOR™ easily converts to a standard drill press with a 7 1/2" stroke.

AB-4300-2R shown with extra rack up (left) and extra rack down (right).



Cutter capacity up to 2 1/16" dia.

Twist drill capacity up to 1/2" dia.

See pages 18-26 for Annular Cutters and Accessories.

### Model AB-4300-2 and AB-4300-2R

Model Comparison			
AB-4300-2R		AB-4300-2	
<b>Drill Stroke</b>			
w/cutters	w/chuck	w/cutters	w/chuck
10 1/4"	7 1/2"	4 7/8"	1 3/4"
<b>Height</b>			
closed	open	closed	open
13 1/2"	22"	13 1/2"	17 1/2"
<b>Weight</b>			
lbs.	kg	lbs.	kg
43	20	38	18

Motor Power (Pneumatic)	1.6 HP
Hole Capacity	2 1/16" dia.
Twist Drill Capacity	1/2" dia.
No Load Speed	400 RPM
Air Consumption @ 90 PSI	64 CFM
Magnet Base Size	8 3/4" L x 3 1/2" W
Dimensions	13 1/2" H x 12 1/2" L x 4 3/4" W
Magnetic Force (1" plate)	1600 lbs.
Arbor Bore	3/4"
Automatic Lubrication	Included
Stroke Length: 4 7/8"	Order Model AB-4300-2
Stroke Length: 10 1/4"	Order Model AB-4300-2R

# HB-4400

Hydraulic for marine and construction – works underwater



Cutter capacity  
2 1/16" dia.



Hoses not included

Ratchet manually operates magnet

- Ideal for industrial, construction, marine and mining applications
- Hydraulic motor safe for underwater use
- Drill structural steel and other metals
- Stainless steel construction resists corrosion
- Manually operated permanent magnet with ratchet control has holding strength of 1300 lbs.
- Lightweight, rugged machine for cutting up to 2 1/16" diameter holes with Annular Cutters
- Easily converts to a standard drill press with a chuck for conventional twist drills up to 1/2" dia.
- Includes automatic lubrication



Standard equipment includes safety straps, allen keys and operating instructions.

With a 3/4" chuck (Part No. 602045A), this model easily converts to a standard drill press with a 3" stroke.



Cutter capacity up to 2 1/16" dia. stroke: 3 3/4"

Twist drill capacity up to 1/2" dia. stroke: 3"

See pages 18-26 for Annular Cutters and Accessories.

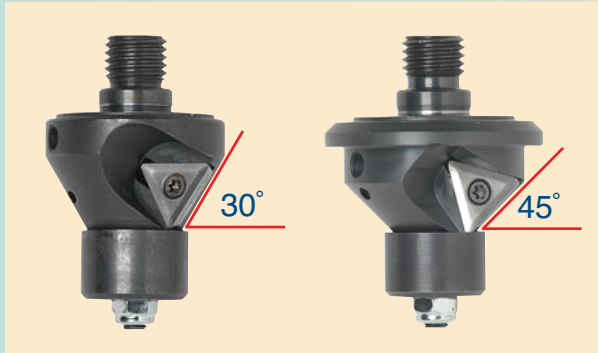
Model HB-4400	
Motor Power (Hydraulic)	1.5 HP
Weight	48 1/2 lbs.
Hole Capacity	2 1/16" dia.
Twist Drill Capacity	1/2" dia.
No Load Speed, Variable	0-630 RPM
Hydraulic Supply	Flow 6.5 GPM @ 2000 PSI
Magnetic Force (1" plate)	1300 lbs.
Automatic Lubrication	Included

# Multi-purpose Beveling Machine

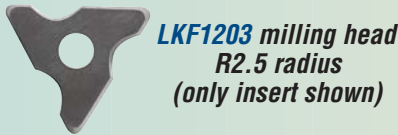
**Bevel, deburr & chamfer edges of steel plate faster and cleaner than angle grinders**



*One Machine, Three Milling Options*



LKF1201 milling head 30° LKF1202 milling head 45°



LKF1203 milling head  
R2.5 radius  
(only insert shown)

**Accessories:**

LKS20 - Sintered carbide cutting plate for LKF 1201 and LKF1202

LKS20-R - Sintered carbide cutting plate for LKF1203 (shown above)

- Bevel 30° or 45° weld seams on steel, stainless steel, nonferrous metals, brass and plastics
- Deburr and chamfer, straighten edges, internal and external radii and countersink holes from 7/8" dia.
- Fine adjustment feature for slight chamfers when deburring for the preparation of weld seams
- Three milling heads – 30°, 45° and radius R2.5 – are available
- Ideal for the following applications:
  - Moldmaking:** straighten edges, internal and external radii and countersink holes from 7/8" dia.
  - Boiler and process plant construction:** prepare weld seams on heat exchangers
  - Mechanical engineering:** deburr machine parts, chamfer edges to protect against paint peeling and create visible edges
  - Sheet metal:** deburr cut edges
- One-year warranty



Standard equipment includes milling head and 2 inserts, SW22 key, carrying case and user's manual.

Model No.	Beveling Angle	Bevel Width (Max.)*	Motor Power (Amps)	Voltage*	Cutting Speed (SFPM)	Dimensions (L x W x H)	Weight (lbs.)
LKF450-2A	30°	1/4"	10	110V	3000	12 1/4" x 5 1/2" x 11 5/8"	10 1/2
LKF450-2	45°	1/4"	10	110V	3000	12 1/4" x 5 1/2" x 11 5/8"	10 1/2

\*\* All units available in 220 Volt / 50Hz † Max. bevel width may require several passes, depending on material hardness



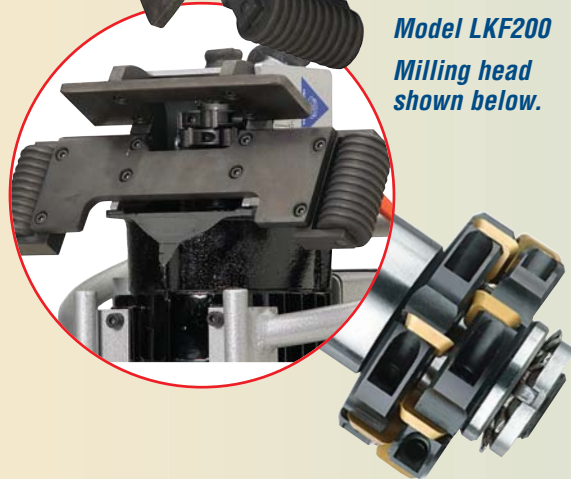
# Portable Beveling Machine

Bevel angles from 15° to 60° on plate and pipes



- Fast and easy preparation of weld seams
- Bevel 15° to 60° angles on plate or pipe
- High-quality performance allows better weld connections
- Continuously adjustable angle (15° to 60°) and land width up to 5/8"
- Ideal for steel, stainless steel, aluminum and nonferrous metals
- Robust design, single operator control and easy handling
- Includes two milling heads and 12 total indexable inserts for fast metal removal and extended tool life
- Welding angles and weld preparation on pipes/tubes with a minimum OD of 6 1/4" (160mm) with included pipe roller guide
- Ideal for beveling pipe 6 1/4" OD and larger
- Designed for continuous operation
- Smooth roller guides
- One-year warranty

*Model LKF200  
Milling head  
shown below.*



*Standard equipment includes two milling heads, each with 6 sintered carbide reversible cutting inserts, tools for assembly, LKF 225 pipe roller guide (shown at left), steel carrying case and user's manual.*

**Accessories:**

**LKS10 - Sintered carbide cutting plates (10 per pack)**



*Ideal for beveling pipe 6 1/4" OD and larger.*

Model No.	Adjustable Beveling Angle	Bevel Width (Max.)	Motor Power (Amps)	Voltage*	Rotation Speed (SFPM)	Dimensions (L xH)	Weight (lbs.)
<b>LKF200</b>	15° - 60°	5/8"†	14	110V	1800	16 1/2" x 13"	42

\*\* Available in 220 Volt / 50Hz † Max. bevel width may require several passes, depending on material hardness

# Unibroach® Annular Cutters

## Faster and more accurate than twist drilling

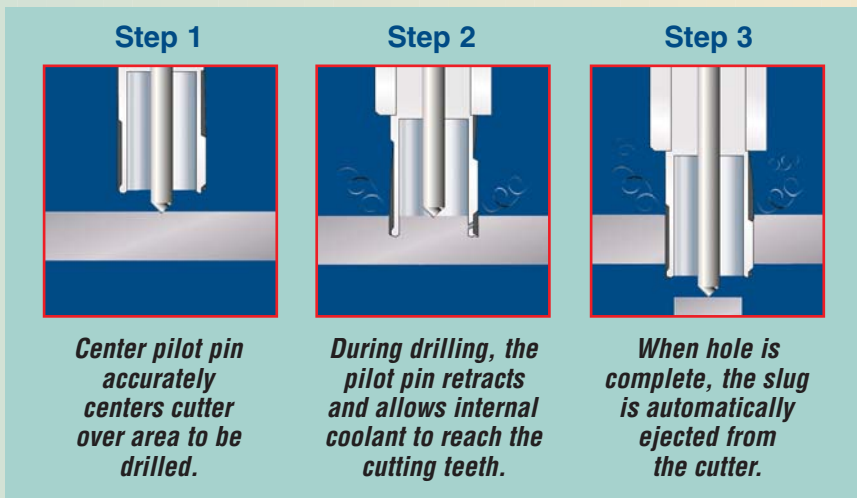
ANNULAR CUTTERS



*Unibroach® cutters are made of hardened, high-speed tool steel and precision ground with up to 16 teeth for fast drilling*

CS Unitec's Unibroach® Annular Cutters drill a burr-free finished hole by cutting only the material around the periphery of the hole. This forms a solid slug which automatically pops out.

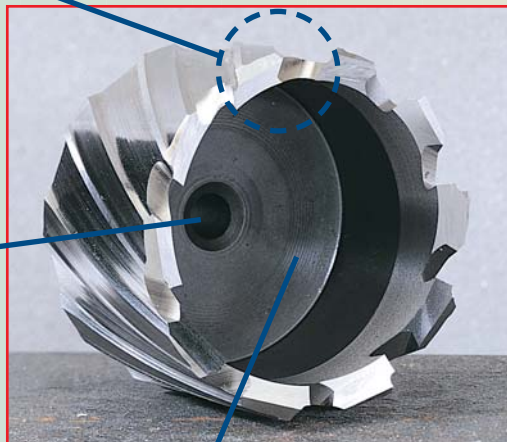
- Less time and energy are consumed per hole
- Faster feed rates are achieved with more cutting teeth and less tool wear
- Lighter, less powerful drilling equipment can be used
- Able to drill holes which are difficult or impossible to do accurately with conventional twist drill tooling – with no predrilling or stepdrilling required



*Double-action tooth geometry cuts, splits and ejects chips more efficiently,*

- increasing cutting speed
- reducing tooth load
- minimizing tool wear
- lengthening cutter life

*Center hole for pilot pin accurately aligns the cutter, allows for internal lubrication and removes the slug.*



*Engineered with a tapered inner wall for smooth, easy slug ejection.*

*Perfect drilling to close tolerances without runoff. The result: a burr-free finished hole.*



# Unibroach® Annular Cutters



**Less Friction = Less Heat = More Holes!**  
Increase tool life and achieve faster feed rates

## ARMOR-PLATED Unibroach™ Cutters – TiAlN

ARMOR-PLATED Unibroach™ Cutters, at 90Rc hardness, are the state-of-the-art in hole cutting technology. They multiply service life, reduce cost and increase productivity.



- 3 to 4 times longer tool life with TiAlN coating
- Drill with less friction and more power
- Withstands higher working temperatures – up to 1480°F (800°C)
- Dry drilling or lubricating with water simplifies working conditions and cleanup\*
- Prevents cold weld – metal chips do not adhere to the cutter
- Ideal for structural steel and hard metal
- 3/4" dia. shank (1 1/4" dia. shank available)

\* After the TiAlN coating is worn, lubricate with cutting oil



ARMOR-PLATED Unibroach™ cutters are available in the following sizes:

- 1" drill depth –  $\varnothing 7/16"$  to  $\varnothing 5"$
- 2" drill depth –  $\varnothing 7/16"$  to  $\varnothing 5"$
- 3" drill depth –  $\varnothing 3/4"$  to  $\varnothing 5"$

- 3/4" shank is standard for cutters up to 3" dia.
- See page 20 for part numbers
- Metric cutters available on request

## Unibroach® High-Speed Steel (HSS) Cutters



Annular Cutters are the standard hole-making drills in the industry. Ideal for heavy-duty use on-site or in the shop, our HSS Unibroach™ cutters are available in the following sizes:

- 1" drill depth –  $\varnothing 7/16"$  to  $\varnothing 5"$
- 2" drill depth –  $\varnothing 7/16"$  to  $\varnothing 5"$
- 3" drill depth –  $\varnothing 3/4"$  to  $\varnothing 5"$

- See page 21 for part numbers
- Metric cutters available on request



3/4" dia. shank. Also available with 1 1/4" dia. shank.

\* HSS Cutters must be used with lubricant.  
See page 23 for CS Unitec lubricants and cutting oil.

CNC-ground flutes run the length of the cutter for efficient chip clearance. This increases drilling productivity and decreases cutter breakage.

- CNC precision ground for fast penetration, accuracy and long life
- Drill holes 3 times faster than twist drills
- Produce reamed-quality burr-free holes and solid slugs
- Reduce machine size and weight
- Cutting edges are resharpenable
- Eliminate time-consuming, costly pilot holes and step drilling

Unibroach® Stack Cutters are available in diameters from  $7/16"$  to  $1 1/8"$  in 1", 2" and 3" depths. Drill multiple layers of steel without stopping to remove the center slug. Please contact us or consult our price list for more information.

# Unibroach® Annular Cutters

## ARMOR-PLATED Unibroach™ Cutters – TiAlN (8-Series)

ANNULAR CUTTERS AND SPECIAL CUTTERS



### Armor-plated Cutter Kits

Each armor-plated cutter kit comes with the following: 9/16", 11/16", 13/16", 15/16", 1-1/16", pilot pin & carrying case.

Order No.	Description
8-1-001 T	1" depth Cutter Kit
8-1-002 T	2" depth Cutter Kit

### Pilot Pins for 8-Series

Order No.	Description
<b>For 3/4" Shanks</b>	
7-3-102	1" depth
7-3-202	2" depth
8-3-302	3" depth

\*\*We also offer 4" depth ARMOR-PLATED cutters as well as Metric ARMOR-PLATED cutters. Please call us for pricing and delivery.

Shank size: 3/4" up to 3" dia.

1" Depth		2" Depth		3" Depth	
Order No.	Diameter	Order No.	Diameter	Order No.	Diameter
8-1-114 T	7/16"	8-1-214 T	7/16"	N/A	
8-1-116 T	1/2"	8-1-216 T	1/2"	N/A	
8-1-118 T	9/16"	8-1-218 T	9/16"	N/A	
8-1-120 T	5/8"	8-1-220 T	5/8"	N/A	
8-1-122 T	11/16"	8-1-222 T	11/16"	N/A	
8-1-124 T	3/4"	8-1-224 T	3/4"	8-1-324 T	3/4"
8-1-126 T	13/16"	8-1-226 T	13/16"	8-1-326 T	13/16"
8-1-128 T	7/8"	8-1-228 T	7/8"	8-1-328 T	7/8"
8-1-130 T	15/16"	8-1-230 T	15/16"	8-1-330 T	15/16"
8-1-132 T	1"	8-1-232 T	1"	8-1-332 T	1"
8-1-134 T	1-1/16"	8-1-234 T	1-1/16"	8-1-334 T	1-1/16"
8-1-136 T	1-1/8"	8-1-236 T	1-1/8"	8-1-336 T	1-1/8"
8-1-138 T	1-3/16"	8-1-238 T	1-3/16"	8-1-338 T	1-3/16"
8-1-140 T	1-1/4"	8-1-240 T	1-1/4"	8-1-340 T	1-1/4"
8-1-142 T	1-5/16"	8-1-242 T	1-5/16"	8-1-342 T	1-5/16"
8-1-144 T	1-3/8"	8-1-244 T	1-3/8"	8-1-344 T	1-3/8"
8-1-146 T	1-7/16"	8-1-246 T	1-7/16"	8-1-346 T	1-7/16"
8-1-148 T	1-1/2"	8-1-248 T	1-1/2"	8-1-348 T	1-1/2"
8-1-150 T	1-9/16"	8-1-250 T	1-9/16"	8-1-350 T	1-9/16"
8-1-152 T	1-5/8"	8-1-252 T	1-5/8"	8-1-352 T	1-5/8"
8-1-154 T	1-11/16"	8-1-254 T	1-11/16"	8-1-354 T	1-11/16"
8-1-156 T	1-3/4"	8-1-256 T	1-3/4"	8-1-356 T	1-3/4"
8-1-158 T	1-13/16"	8-1-258 T	1-13/16"	8-1-358 T	1-13/16"
8-1-160 T	1-7/8"	8-1-260 T	1-7/8"	8-1-360 T	1-7/8"
8-1-162 T	1-15/16"	8-1-262 T	1-15/16"	8-1-362 T	1-15/16"
8-1-164 T	2"	8-1-264 T	2"	8-1-364 T	2"
8-1-166 T	2-1/16"	8-1-266 T	2-1/16"	8-1-366 T	2-1/16"



**ARMOR-PLATED = Less Friction = Less Heat = More Holes!**  
**Increase tool life and achieve faster feed rates**

**ARMOR-PLATED Unibroach™ Cutters, at 90Rc hardness, are the state-of-the-art in hole cutting technology. They multiply service life, reduce cost and increase productivity.**

- Drill with less friction and more power
  - Withstands higher working temperatures – up to 1480°F (800°C)
  - Dry drilling or lubricating with water simplifies working conditions and cleanup\*
  - Prevents cold weld – metal chips do not adhere to the cutter
  - Ideal for structural steel and hard metal
- \* After the TiAlN coating is worn, lubricate with cutting oil

# Unibroach® Annular Cutters

## Unibroach™ High-Speed Steel (HSS) Cutters (6-Series)

### 1" Depth

Order No.	Diameter
6-1-114	7/16"
6-1-116	1/2"
6-1-118	9/16"
6-1-120	5/8"
6-1-122	11/16"
6-1-124	3/4"
6-1-126	13/16"
6-1-128	7/8"
6-1-130	15/16"
6-1-132	1"
6-1-134	1-1/16"
6-1-136	1-1/8"
6-1-138	1-3/16"
6-1-140	1-1/4"
6-1-142	1-5/16"
6-1-144	1-3/8"
6-1-146	1-7/16"
6-1-148	1-1/2"
6-1-150	1-9/16"
6-1-152	1-5/8"
6-1-154	1-11/16"
6-1-156	1-3/4"
6-1-158	1-13/16"
6-1-160	1-7/8"
6-1-162	1-15/16"
6-1-164	2"
6-1-166	2-1/16"
6-1-168	2-1/8"
6-1-170	2-3/16"
6-1-172	2-1/4"
6-1-174	2-5/16"
6-1-176	2-3/8"
6-1-178	2-7/16"
6-1-180	2-1/2"
6-1-182	2-9/16"
6-1-184	2-5/8"
6-1-186	2-11/16"
6-1-188	2-3/4"
6-1-190	2-13/16"
6-1-192	2-7/8"
6-1-194	2-15/16"
6-1-196	3"
6-1-198	3-1/16"
6-1-1100	3-1/8"
6-1-1102	3-3/16"
6-1-1104	3-1/4"
6-1-1106	3-5/16"
6-1-1108	3-3/8"
6-1-1110	3-7/16"
6-1-1112	3-1/2"
6-1-1114	3-9/16"
6-1-1116	3-5/8"
6-1-1118	3-11/16"
6-1-1120	3-3/4"
6-1-1122	3-13/16"
6-1-1124	3-7/8"
6-1-1126	3-15/16"
6-1-1128	4"

### 2" Depth

Order No.	Diameter
6-1-214	7/16"
6-1-216	1/2"
6-1-218	9/16"
6-1-220	5/8"
6-1-222	11/16"
6-1-224	3/4"
6-1-226	13/16"
6-1-228	7/8"
6-1-230	15/16"
6-1-232	1"
6-1-234	1-1/16"
6-1-236	1-1/8"
6-1-238	1-3/16"
6-1-240	1-1/4"
6-1-242	1-5/16"
6-1-244	1-3/8"
6-1-246	1-7/16"
6-1-248	1-1/2"
6-1-250	1-9/16"
6-1-252	1-5/8"
6-1-254	1-11/16"
6-1-256	1-3/4"
6-1-258	1-13/16"
6-1-260	1-7/8"
6-1-262	1-15/16"
6-1-264	2"
6-1-266	2-1/16"
6-1-268	2-1/8"
6-1-270	2-3/16"
6-1-272	2-1/4"
6-1-274	2-5/16"
6-1-276	2-3/8"
6-1-278	2-7/16"
6-1-280	2-1/2"
6-1-282	2-9/16"
6-1-284	2-5/8"
6-1-286	2-11/16"
6-1-288	2-3/4"
6-1-290	2-13/16"
6-1-292	2-7/8"
6-1-294	2-15/16"
6-1-296	3"
6-1-298	3-1/16"
6-1-2100	3-1/8"
6-1-2102	3-3/16"
6-1-2104	3-1/4"
6-1-2106	3-5/16"
6-1-2108	3-3/8"
6-1-2110	3-7/16"
6-1-2112	3-1/2"
6-1-2114	3-9/16"
6-1-2116	3-5/8"
6-1-2118	3-11/16"
6-1-2120	3-3/4"
6-1-2122	3-13/16"
6-1-2124	3-7/8"
6-1-2126	3-15/16"
6-1-2128	4"

### 3" Depth

Order No.	Diameter
N/A	
N/A	
N/A	
N/A	
N/A	
6-1-324	3/4"
6-1-326	13/16"
6-1-328	7/8"
6-1-330	15/16"
6-1-332	1"
6-1-334	1-1/16"
6-1-336	1-1/8"
6-1-338	1-3/16"
6-1-340	1-1/4"
6-1-342	1-5/16"
6-1-344	1-3/8"
6-1-346	1-7/16"
6-1-348	1-1/2"
6-1-350	1-9/16"
6-1-352	1-5/8"
6-1-354	1-11/16"
6-1-356	1-3/4"
6-1-358	1-13/16"
6-1-360	1-7/8"
6-1-362	1-15/16"
6-1-364	2"
6-1-366	2-1/16"
6-1-368	2-1/8"
6-1-370	2-3/16"
6-1-372	2-1/4"
6-1-374	2-5/16"
6-1-376	2-3/8"
6-1-378	2-7/16"
6-1-380	2-1/2"
6-1-382	2-9/16"
6-1-384	2-5/8"
6-1-386	2-11/16"
6-1-388	2-3/4"
6-1-390	2-13/16"
6-1-392	2-7/8"
6-1-394	2-15/16"
6-1-396	3"
6-1-398	3-1/16"
6-1-3100	3-1/8"
6-1-3102	3-3/16"
6-1-3104	3-1/4"
6-1-3106	3-5/16"
6-1-3108	3-3/8"
6-1-3110	3-7/16"
6-1-3112	3-1/2"
6-1-3114	3-9/16"
6-1-3116	3-5/8"
6-1-3118	3-11/16"
6-1-3120	3-3/4"
6-1-3122	3-13/16"
6-1-3124	3-7/8"
6-1-3126	3-15/16"
6-1-3128	4"



#### Shank size:

3/4" for cutters up to 3" dia.  
1-1/4" for cutters 3-1/16 to 4" dia.

#### Cutter Kits

Each HSS steel cutter kit comes with the following: 9/16", 11/16", 13/16", 15/16", 1-1/16", pilot pin & carrying case.

Order No.	Description
6-1-001	1" depth Cutter Kit
6-1-002	2" depth Cutter Kit

#### Pilot Pins for 6-Series

Order No.	Description
<b>For 3/4" Shanks</b>	
6-3-101	7/16" dia., 1" depth
7-3-102	1/2" - 3" dia., 1" depth
6-3-201	7/16" dia., 2" depth
7-3-202	1/2" - 3" dia., 2" depth
7-3-302	3/4" - 3" dia., 3" depth
<b>For 1-1/4" Shanks</b>	
8-3-3002	3-1/16" - 5" dia., 1" depth
8-3-2002	3-1/16" - 5" dia., 2" depth
8-3-3022	3-1/16" - 5" dia., 3" depth

\*\*We also offer 4" depth HSS cutters and Metric HSS cutters. Please call us for pricing and delivery.



## Unibroach® Annular Cutters

High-speed drilling – on the job site or in the shop

### Unibroach® Tungsten Carbide-tipped (TCT) Cutters



- Metric cutters available on request
- See our price list for part numbers

- Use high-speed RPM for best results and faster holemaking
- Ideal for drilling steel with rust or paint
- Will outlast High-speed Steel cutters
- Leaves a burr-free finished hole
- Available in all sizes (fractional and metric)
- $\frac{3}{4}$ " or  $1\frac{1}{4}$ " shank

Available in the following sizes:

- 1" drill depth –  $\varnothing \frac{5}{8}$ " to  $\varnothing 2$ "
- 2" drill depth –  $\varnothing \frac{11}{16}$ " to  $\varnothing 5$ "
- 3" drill depth –  $\varnothing \frac{13}{16}$ " to  $\varnothing 2$ "

### Unibroach® Cobalt Cutters



- $\frac{3}{4}$ " shank is standard for cutters up to 3" dia.
- Metric cutters available on request
- See our price list for part numbers

- Unibroach® Cobalt Cutters are made with 5% cobalt to increase resistance to wear
- Excellent results when drilling high-tensile steel and difficult-to-machine materials
- Available with TiAlN coating upon request
- Available for hole sizes up to 5" dia.



### Unibroach® Large-diameter Hole Cutting

Drill perfect holes up to 5" diameter without runout

- Standard with  $\frac{3}{4}$ " or  $1\frac{1}{4}$ " shank diameters
- More cutting teeth to distribute the load evenly
- Increase tool life and achieve faster feed rates
- Use on milling machines, drill presses, CNC and other equipment
- A solid slug has a higher value for scrap metal
- Available in HSS, Cobalt, TCT and ARMOR-PLATED Unibroach™



### Unibroach® Cutter Kits

Kits include one each:  $\frac{9}{16}$ ",  $\frac{11}{16}$ ",  $\frac{13}{16}$ ",  $\frac{15}{16}$ ",  $1\frac{1}{16}$ " (for cutter depth of 1" or 2"), pilot pin and plastic case

# Lubricants

**Coolant extends the life of cutting tools!**

**ProLube™** Ideal for cutting steel, stainless steel and hard metals

Your cutting tools will work cooler, longer and more efficiently with ProLube™ Lubricants from CS Unitec.

- Prolong tool life by reducing friction and wear
- Unique composition provides excellent adhesion to cutting tools for maximum lubrication
- Corrosion inhibitor
- Non-toxic



**ProLube Liquid**  
Water soluble 16:1  
CS 7010-504  
1 gal. bottle



**ProLube Paste**  
CS 7030-712  
12 oz. tub

## Cutting Oil



[Part No. IBO.20Q (quart); IBO.20G (gallon)]

- High-alloy cutting oil for heavy removal of metal, including stainless steel
- Chlorine-free (MSDS on bottle)
- Not necessary to dilute with water

**Upgrade your drill's cooling system: see page 25 for arbors with automatic cooling.**



## Power Assist

The Power Assist is a standard capstan, designed with delayed torque transfer. This decreases the load on both cutter and drilling machine, allowing the machine to maintain max. RPM under full load

- Reduces drilling time
- Prevents cutter breakage
- Extends lifespan of cutter/ drill bit
- Extends life of machine



Power Assist Capstan

- 030E.0048 – Included with ECO-30
- 020.0330 – Power Assist for ECO-32 and ECO-50 machines
- 020.0336 – Power Assist for ECO-80, ECO-100 and ECO-130 machines
- 020.0063 – Power Assist with wrench mechanism for ECO-32 and ECO-50 machines
- 020.0064 – Power Assist with wrench mechanism for ECO-80, ECO-100 and ECO-130 machines



Power Assist Wrench Mechanism

# Accessories



## Pilot Pins for Cutters

- Milled channel efficiently supplies internal lubrication to cutting teeth
- Available for cutter diameters ranging from  $7/16"$  to  $5"$  and  $1"$ ,  $2"$ ,  $3"$  and  $4"$  depth of cut
- See price list for part numbers

## Drill Chucks for Straight Shank Twist Drills

- Two capacities:  $1/2"$  and  $3/4"$
- Four chucks and adapters to fit all magnetic drills:
  - A) **IBK-17** –  $1/2"$  chuck for ECO-32 and ECO-32T
  - B) **IBK-18** –  $1/2"$  chuck with  $3/4"$  shank for AIRBOR™ and HB-4400 (fits all drills with  $3/4"$  arbor bore)
  - C) **IBK-21** –  $3/4"$  chuck with MT3 shank for ECO-80AK and ECO-100/3AK
  - D) **IBK-22** –  $3/4"$  chuck with MT2 shank for ECO-50 and ECO-50T



## Tapping Tools, Tap Collets and Tapping Chucks



- Manufactured from high-quality HSS to ASA Standard (or DIN 376 for metric)
- Ideal for CS Unitec's portable drilling and tapping machines and other drills

*Tap collets fit magnetic drills with  $3/4"$  arbor bore. They are available for taps  $1/4"$  through  $3/4"$ . They hold standard USA taps conforming to ASA.*



*Model No. **GSW.222** quick-change tapping chuck with MT2 connection, complete with flexible collet to tap  $5/16"$  to  $5/8"$ . For use with ECO-50T magnetic drill.*

*Model No. **GSW.830** tapping chuck utilizes two variable clamp collets to tap  $3/8"$  to  $1 1/8"$ . It is the least expensive system if you will tap more than 4 sizes. **GSW.830** has an MT3 connection. For use with ECO-100 magnetic drill.*



*Variable clamp collets for use in tap chuck No. **GSW.830***

*Model No. **VSP.160** variable clamp collet fits shanks  $3/8"$  –  $5/8"$ .*

*Model No. **VSP.230** variable clamp collet fits shanks  $5/8"$  –  $7/8"$ .*





# Accessories

## Arbors for Annular Cutters



Manual Cooling



Automatic Cooling



Extended Length



Keyless Arbor with Automatic Cooling

Keyless cutter arbors allow fast, no-tools changeover for 3/4" dia. shank annular cutters.

IMC.2Q – Morse Taper No. 2

IMC.3Q – Morse Taper No. 3

- Can be used on any magnetic drill stand, drill press or shop equipment with a Morse Taper intake of No. 2, No. 3 or No. 4
- Available for Annular Cutter shank sizes of 3/4" or 1 1/4" Weldon
- Available for automatic internal cooling or manual cooling

**MC.2** – Morse Taper No. 2  
3/4" arbor bore  
manual cooling

**IMC.20** – Morse Taper No. 2  
3/4" arbor bore  
automatic cooling

**MC.3** – Morse Taper No. 3  
3/4" arbor bore  
manual cooling

**IMC.30** – Morse Taper No. 3  
3/4" arbor bore  
automatic cooling

**MC.4** – Morse Taper No. 4  
3/4" arbor bore  
manual cooling

**IMC.30/32** – Morse Taper No. 3  
1 1/4" arbor bore  
automatic cooling

### 2-in-1 Drill/Taps

- Drill and tap with one tool



#### Sizes available:

CS500 – 1/2" UNC

CS625 – 5/8" UNC

CS750 – 3/4" UNC

CS875 – 7/8" UNC

CS1000 – 1" UNC

CSDT-UNCKIT – 1/2", 5/8", 3/4" and 1" UNC

### 82° and 90° Countersinks

- Manufactured of HSS with 5% cobalt
- 3/4" Weldon shank

#### Countersink hole sizes:

SCE 20 from 3/8" to 1 1/2" / 82°

SCE 30 from 5/8" to 2" / 82°

SCE 40 from 3/8" to 1 1/2" / 90°

SCE 50 from 5/8" to 2 1/8" / 90°



## Cooling System

The cooling system on all our drills has been upgraded for easier use. The coolant reservoir is quickly and easily attached to the magnetic drill via a new magnet system. The coolant flow is measurable and easily monitored through a clear cylinder.

The hose connecting the reservoir to the spindle has also been upgraded. It is now equipped with a wear-resistant mechanical locking system that securely fastens the hose to the arbor.



# Accessories

## Extensions for Annular Cutters Extra-long holders extend stroke of drills



3/4" Weldon Shank  
(2 Flats)

6" length (p/n 7-9-906)  
12" length (p/n 7-9-912)



- Drill difficult-to-reach areas
- Extend cutter reach over the side or through an existing hole\*

3 Flats

\* Hole diameter must be larger than 1 5/16" to accommodate width of extension

- Extend cutter reach up to 12"
- Available for magnetic drills with 3/4" arbor bore or MT3
- Also available with 3 flats for straight shank drill chucks and R8 shanks for drill presses



R8



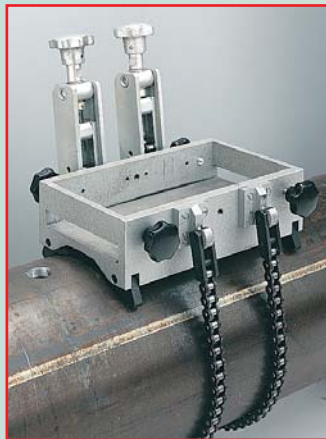
3 Flats for Geared Chucks x 3/4" arbor



MT2 or MT3 x 3/4" arbor

## Pipe Clamp Saddle System

Ensures safe, secure drilling of pipes and tubular material



Ideal for a wide variety of pneumatic, hydraulic or electric drills

- Quick clamping feature for fast setup on pipes up to 20" dia. and larger
- For use on steel, stainless steel and other materials
- Chain tensioner secures saddle to pipe in any position, while four independent steel feet automatically adjust to pipe contour
- Larger sizes available with optional extension chain\*

	Model PAK-100	Model PAK-200
	For models ECO-30/3P, ECO-32, ECO-32T and MDM-40	For models AB-4300-2, ECO-50, ECO-80, ECO-100/3, ECO-40 AUTO and HB-4400
Pipe OD	3 1/4" to 10" dia.	6" to 20" dia.
Maximum Magnet Dimensions	6 5/8" L x 3 5/16" W	9" L x 4 3/8" W
Weight	14 lbs.	23 lbs.

\* For larger pipe sizes, order 39" extension chain, Part No. PAK-CHAIN

# Electric Drills and Drive Units

## High-torque, multi-gearred and variable-speed motors



### Heavy-duty Drills for Industrial and Construction Applications:

- High-torque output
- Variable-speed, two- and four-gearred drills for optimum speed selection
- Reversible motors and electronic torque control on selected models
- Ideal for special applications including valve turning, tube rolling and other jobs
- Safety slip clutch on 1<sup>1</sup>/<sub>4</sub>" capacities to protect operator and tool
- Drilling capacities up to 1<sup>1</sup>/<sub>4</sub>" in steel
- Special OEM motors available on request
- One-year warranty



Model No.	Motor Power (Amps)	Voltage*	Load Speed (RPM)	Drilling Capacity in Steel	Torque Output (ft./lbs.)	Reversible	Chuck/Arbor	Weight (lbs.)
<b>EHB 16/1.4 S</b>	7.3	110V	0-500	5/8"	12	NO	5/8" Keyless	6.8
<b>EHB 16/2.4 S</b>	10	110V	0-430/0-760	5/8"	19	NO	5/8" Geared	7
<b>EHB 16/2.4 R/L</b>	10	110V	430/760	5/8"	19	YES	5/8" Geared	7
<b>EHB 16/2.4 S/RL</b>	10	110V	0-430/0-760	5/8"	19	YES	5/8" Geared	7
<b>EAW 16/2 R/L</b>	9	110V	510/950	N/A	8	YES	5/8" X 16 UN	7
<b>EHB 20/2.4</b>	10.5	110V	250/450	3/4"	32	NO	MT2	9.2
<b>EHB 32/4.2</b>	15.5	110V	110/175/245/385	1 <sup>1</sup> / <sub>4</sub> "	112	NO	MT3	15.2

\* All units available in 220 Volt / 50Hz Special Motors available upon request.

# Slow-speed Electric Drills and Drive Units

## Two-gearred, variable-speed reversible motors



Model ETE 32/2.3 R/RL  
(shown with optional  
Square Drive adapter)

- High-torque, two-gearred and variable-speed reversible motors
- Ideal for drilling, reaming and tapping steel
- Driving applications include mills, spindles, bar boring, pipe beveling and valve turning
- Perfect for tube rolling and expanding for fire tube and water tube boilers
- Mechanical safety clutch prevents operator injury or damage to the tool
- Morse Taper #3 arbor
- One-year warranty



Up to 1 1/4"  
twist drill  
capacity



Model EHB 32/2.2 R/RL  
Model ETE 32/2.3 R/RL



1/2" and 3/4" Square Drive  
accessories allow motor  
compatibility for various  
drive applications.\*

Model No.	Motor Power (Amps)	Voltage**	Load Speed (RPM)	Drilling Cap. in Steel	Tube Rolling (max.)	Revers-ible	Torque Output (ft./lbs.)	Torque Control	Arbor	Weight (lbs.)
EHB 32/2.2 R/RL	16.3	110V	60-140 / 200-470	1 1/4"	2"	YES	92 max.	YES	MT3	14
ETE 32/2.3 R/RL	16.3	110V	30-75 / 90-230	N/A	3" ***	YES	174 max.	NO	MT3	15

\*\* All units available in 220 Volt / 50Hz

\*\*\* With Expander (Up to 2 1/2" with Bead Roller)

\* 1/2" Square Drive with MT3 – Part No. 830-1230-050

3/4" Square Drive with MT3 – Part No. 830-1230-075

## High-torque reversible drilling and tapping machines

- High-torque reversible drilling, tapping and threading machines
- Ideal for drilling, reaming, tube rolling, tube expanding and tapping
- Use for special applications including mills, spindles, slides, controllers, pipe tapping, valve turning and more
- Drill chucks and Morse Taper arbors
- Hammer drills for drilling concrete with up to 2200 blows per minute
- Special OEM air motors available on request
- One-year warranty

### Morse Taper Drills w/ Feed Spindle



*Model 2 2089 0030 with reverse and safety twist throttle*

### D-handle Drills



*Model 2 1310 0010*

### Pneumatic Hammer Drills    Pneumatic Pistol Drills



*Model 2 1266 0010*



*Model 2 1261 0010*



*See page 29 for Rotary Hammer Drills*

Model No.	Motor Power (HP)	Load Speed (RPM)	Reversible	Chuck/ Arbor	Drilling Cap. in Steel	Tube Rolling Cap.	Torque Output (ft./lbs)	CFM at 90 PSI	Length	Feed Length	Weight (lbs.)
<b>Pistol Drills</b>											
2 1261 0010	0.7	90-850	NO	1/2" Chuck	1/2"	N/A	7 max.	21	9 <sup>3</sup> / <sub>4</sub> "	N/A	4.6
<b>Hammer Drills (for concrete and underwater applications)</b>											
2 1266 0010	0.75	950	NO	1/2" Chuck	1/2"	N/A	7 max.	21	12"	N/A	6.7
<b>D-handle Drills</b>											
2 1310 0010	0.8	650	NO	1/2" Chuck	1/2"	N/A	8 max.	24	12 <sup>1</sup> / <sub>2</sub> "	N/A	12
2 1311 0010	0.8	650	NO	MT1	5/8"	N/A	8 max.	24	11"	N/A	12
<b>Morse Taper Drills w/ Feed Spindle</b>											
2 2089*	1.7	250	YES	MT3	1 <sup>1</sup> / <sub>4</sub> "	1"	36 max.	24	26 <sup>1</sup> / <sub>2</sub> "	1 <sup>5</sup> / <sub>8</sub> "	28
2 2506*	2.5	220	YES	MT3	1 <sup>1</sup> / <sub>4</sub> "	2"	63 max.	70	26 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>2</sub> "	32
2 2502*	2.5	80	YES	MT4	2"	2 <sup>1</sup> / <sub>2</sub> "	173 max.	70	26 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>2</sub> "	37

\* The last four digits of the Model No. identify the type of throttle. Please specify the four digits when ordering: 0010 for Lever Throttle or 0030 for Safety Twist Throttle.

# Pneumatic and Hydraulic Corner Drills and Drives

## High-torque drilling, reaming and driving units

CORNER DRILLS AND DRIVE UNITS



Model 2 1801 0030

ATEX

### Corner Drills and Bridge Reamers

- Small side-to-side distance for working in tight spaces
- Self-closing roll throttle
- Built-in oiler for motor
- Ideal for bridge reaming and drilling applications
- One-year warranty
- Visit [www.csunitec.com](http://www.csunitec.com) for dimensions

### Slow-speed, High-torque Straight Drive Units



Model 2 2087 0010 with reverse and lever throttle

- Ideal for heavy-duty reaming, tube expanding and tapping
- Perfect for special driving applications, including pipe tapping and valve turning

### Square Drive Accessories

- 2 2089 7020 – 7/8" Male Square Drive to 3/4" Male Square Drive
- 2 2089 7070 – 7/8" Male Square Drive to 1" Male Square Drive
- 6 1016 7940 – 7/8" Male Square Drive to 1" Male Square Drive with retaining pin

Pneumatic Corner Drill Model No.	Morse Taper	Drilling (in steel)	Reaming (in steel)	Tube Rolling Cap.	Torque Output (ft./lbs.)	Load Speed (RPM)	Motor Power (HP)	CFM at 90 PSI	Length	Weight (lbs.)
<b>Nonreversible</b>										
2 1602 0030	#1	5/8"	1/2"	N/A	7	500	0.7	21	12.5"	7
2 1701 0030	#2	7/8"	5/8"	N/A	35	270	1.8	49	20.9"	19
2 1801 0030	#3	1 1/4"	1"	N/A	53	260	2.6	63	22.5"	25
<b>Reversible</b>										
2 2104 0030	#4	2 1/8"	2"	2"	86	180	3.0	71	23.8"	37

Model No. 2 1602 0030 has a 3/8" NPT air inlet. 1/2" (13mm) hose is recommended. All other models have 3/4" NPT air inlet. A 1/2" (13mm) hose is recommended for model 2 1701 0030. A 5/8" (15mm) hose is recommended for models 2 1801 0030 and 2 2104 0030.

Hydraulic Corner Drill Model No.	Morse Taper	Drilling (in steel)	Reaming (in steel)	Tube Rolling Cap.	Torque Output (ft./lbs.)	Load Speed (RPM)	Motor Power (HP)	Oil Flow/PSI	Length	Weight (lbs.)
2 1806 0010	#3	1 1/4"	1"	N/A	60	220	3.8	4 GPM @2000	21"	25

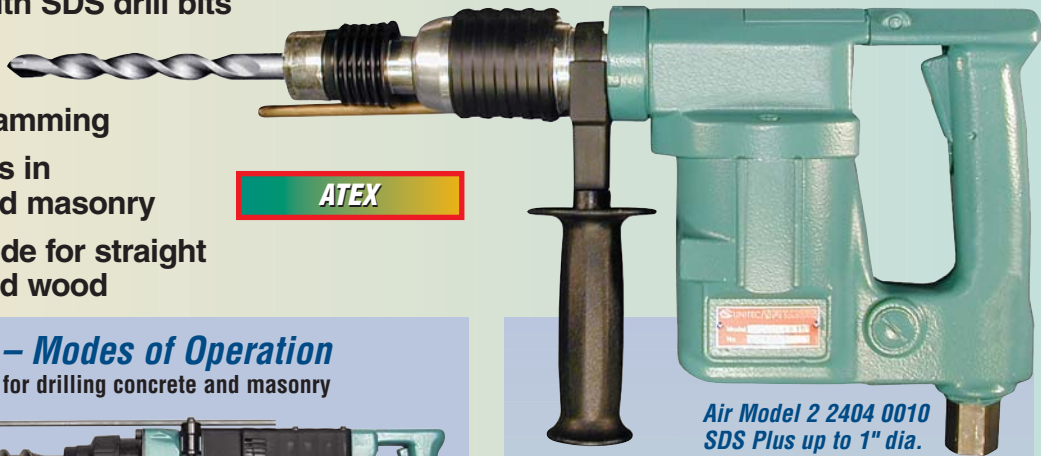
Pneumatic Drive Unit Model No.	Square Drive ID	Torque Output (ft./lbs.)	Load Speed (RPM)	Reversible	Tube Rolling Cap.	Tapping Cap.	Motor Power (HP)	CFM at 90 PSI	Height x Length	Weight (lbs.)
2 2081*	13/16"	413	20	YES	3"	1 1/2"	1.35	53	10.9" x 26.5"	29
2 2087*†	7/8"	413	20	YES	3"	1 1/2"	1.35	53	10.9" x 26.5"	29
2 2088*†	7/8"	138	60	YES	2"	3/4"	1.35	53	10.9" x 26.5"	29

\* The last four digits of the Model No. identify the type of throttle. † Square drive accessories available (see above). Please specify the four digits when ordering: 0010 for Lever Throttle or 0030 for Safety Twist Throttle.

# Pneumatic and Hydraulic Rotary Hammer Drills

## Powerful percussion drilling for concrete and masonry

- Holes cost less with SDS drill bits
- Safety clutch protects against overloading and jamming
- Hammer drill holes in concrete, brick and masonry
- Rotary drilling mode for straight drilling of steel and wood



Air Model 2 2404 0010  
SDS Plus up to 1" dia.

### SDS Max – Modes of Operation

2" bit capacity for drilling concrete and masonry



**Hammer with Rotation**  
Ideal for concrete drilling

**Rotation Only**  
Ideal for drilling wood and steel

Air Model 2 2414 0010  
SDS Max

### SDS Plus – Hammer and Drill

1" bit capacity for drilling concrete and masonry

*Drill concrete anchor holes, thru holes, piping and mechanical openings and other construction and repair work. Switches to rotary drilling mode for steel and wood.*



Hydraulic Model 2 2418 0010  
SDS Max

Second handle position

SAE #8 port for hydraulic hose connection



Hydraulic Model 2 2406 0010  
SDS Plus

SAE #8 oil port

### SDS Drill Bits and Chisels



Small Masonry Bits  
SDS Plus up to 1" dia.



Large Masonry Bits  
SDS Max up to 2" dia.



Auger Drill Bit  
for wood



Chisel  
for demolition

Pneumatic Hammer Drill Model No.	Blows/Minute (BPM)	Drill Speed (RPM)	Solid Bit Capacity (Concrete)	Core Bit Capacity (Concrete)	Twist Drill (wood)	Power at 90 PSI	Air Consumption at 90 PSI	Tool System	Dimensions (inches)	Weight (lbs.)
2 2404 0010	0-3000	0-625	1" dia.	3" dia.	3/4" dia.	0.7 HP	21 CFM	SDS Plus	16 x 8 1/2 x 4	11
2 2404 0030*	0-3000	0-625	1" dia.	3" dia.	3/4" dia.	0.7 HP	21 CFM	SDS Plus	16 x 8 1/2 x 4	11
2 2417 0010	0-2500	0-250	2" dia.	6" dia.	1 1/4" dia.	1.6 HP	53 CFM	SDS Max	19 1/2 x 9.8 x 4 1/2	26

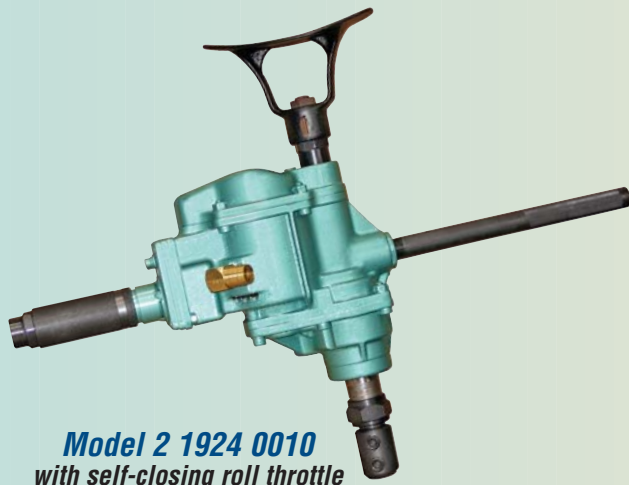
\* Underwater model – Optional underwater air tool line conditioner to displace moisture, Part No. MS 9105. See page 32.

Hydraulic Hammer Drill Model No.	Blows/Minute (BPM)	Drill Speed (RPM)	Solid Bit Capacity (Concrete)	Core Bit Capacity (Concrete)	Twist Drill (wood)	Power at 2000 PSI	Flow Range at 1450 PSI (GPM)	Tool System	Dimensions (inches)	Weight (lbs.)
2 2406 0010	0-3400	0-625	1" dia.	3" dia.	3/4" dia.	0.8 HP	5.8-13.2	SDS Plus	18 x 10 1/4 x 4	15
2 2418 0010	0-2500	0-250	2" dia.	6" dia.	1 1/4" dia.	1.8 HP	2.6-13.2	SDS Max	19 1/2 x 11 1/8 x 7 1/2	37

Hydraulic Hammer Drills operate at hydraulic pressures of 1,450 - 2,000 PSI

# Woodboring Air Drills, Reversible

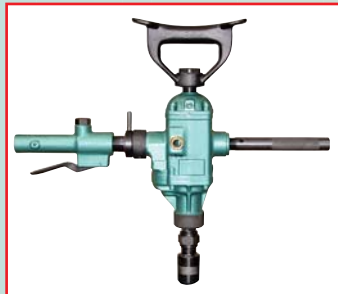
**Heavy-duty power for underwater drilling and other wood boring applications**



**Model 2 1924 0010**  
with self-closing roll throttle  
Up to 2" for boring wood

- Ideal for drilling wood in marine timbers, underwater use and railroad repair work
- Thrust bearing support for long life and efficient operation
- Lever throttle and durable spur gearing
- Breast plate and dead handle included
- Includes threaded exhaust port
- Use underwater with Air Tool Line Conditioner (shown below)

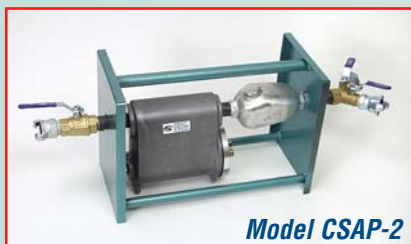
*Accessories and woodboring drill bits from 1/2" dia. to 1 1/8" dia. in lengths from 12" to 36"*



**Model 2 1903 0010**  
with lever throttle  
Up to 1" for boring wood

	Model 2 1903 0010	Model 2 1924 0010
Capacity in wood	1" Diameter	2" Diameter
Reversible	Yes	Yes
Power	2 HP	3 HP
Chuck Style	1/2" Woodboring	1/2" Woodboring
Spindle	Stub Taper	#2 Morse Taper
Free Speed	750 RPM	700 RPM
Recommended Hose Size	1/2"	1/2"
Overall Height	17 1/2"	18 1/2"
Weight	14 1/2 lbs.	24 3/4 lbs.
Air Inlet Thread	1/2" ID	1/2" ID
Air Exhaust Thread	1/2" NPT	1/2" NPT
Air Consumption at 90 PSI	39 CFM	50 CFM

## AirPac Extends life of pneumatic power tools



**Model CSAP-2**

- Removes moisture and dirt from air lines; a float valve automatically ejects water and dirt
- Includes automatic oiler; prevents tools from freezing in cold environments
- Eliminates air motor downtime caused by water and dirt
- Connections for two tools; max. air flow 185 CFM



### Air Tool Line Conditioner

*Underwater air tool conditioner for marine applications. Displaces moisture and inhibits rust/corrosion of air motors.*

**MS 9105 – 1 quart/liter**



*Ideal for turning valves, tightening, tapping, reaming, pipe beveling, expanding and more*



- Worm gear drive provides high torque – up to 554 ft.-lbs.
- Lightweight and reversible
- Compact angle head allows access to confined spaces
- Both Pneumatic and Hydraulic models available
- One-year warranty



Model 6 1015 0075

Model numbers pictured above (listed from top to bottom): 6 1015 0075 (with male drive), 6 1015 0010 (female), 6 1014 0075 (with male drive)

Available with Male or Female Square Drives, in a variety of sizes



Male Sq. Drive Head  
1/2" or 3/4"



Female Sq. Drive Head  
3/4" or 7/8"  
(7/8" pneumatic only)

### Square Drive Accessories



**6 1015 7030**  
3/4" Male Square Drive with retaining hole  
(included with model numbers 6 1014 0075,  
6 1015 0075 and 6 1016 0075)



**6 1015 7020**  
1/2" Male Square Drive with retaining hole  
(included with model numbers 6 1014  
0099, 6 1015 0099 and 6 1016 0099)

**6 1017 7940**  
3/4" Male Square Drive with retaining pin

**6 1018 7940**  
1/2" Male Square Drive with retaining pin

Pneumatic Nut Runner Model No.	Square Drive F=Female M=Male	Stall Torque at 90 PSI (ft.-lbs.)	Free Speed (RPM)	Load Speed (RPM)	Power (HP)	CFM at 90 PSI	Side to Center Distance (inches)	Length (inches)	Weight (lbs.)	Air Connection (inches)	Hose ID (inches)
6 1014 0010	3/4" F	100	180	100	0.9	42	1	16	10	NPT 3/8	1/2
6 1014 0075	3/4" M	100	180	100	0.9	42	1	16	11	NPT 3/8	1/2
6 1014 0099	1/2" M	100	180	100	0.9	42	1	16	11	NPT 3/8	1/2
6 1015 0010	3/4" F	423	44	22	0.9	45	1	21	10	NPT 3/8	1/2
6 1015 0075	3/4" M	423	44	22	0.9	45	1	21	10	NPT 3/8	1/2
6 1015 0099	1/2" M	423	44	22	0.9	45	1	21	10	NPT 3/8	1/2
6 1016 0010	3/4" F	141	120	67	0.9	42	1	21	10	NPT 3/8	1/2
6 1016 0075	3/4" M	141	120	67	0.9	42	1	21	11	NPT 3/8	1/2
6 1016 0099	1/2" M	141	120	67	0.9	42	1	21	11	NPT 3/8	1/2
6 1017 0010	3/4" F	60	260	125	0.9	46	1	21	11	NPT 3/8	1/2
6 1017 0075	3/4" M	60	260	125	0.9	46	1	21	11	NPT 3/8	1/2
6 1017 0099	1/2" M	60	260	125	0.9	46	1	21	11	NPT 3/8	1/2
6 1021 0010	7/8" F	423	44	22	0.9	45	1	21	11	NPT 3/8	1/2

Hydraulic Nut Runner Model No.	Square Drive F=Female M=Male	Stall Torque at 90 PSI (ft.-lbs.)	Free Speed (RPM)	Load Speed (RPM)	Power (HP)	Oil Flow (GPM)	Oil Pressure (GPM)	Side to Center Distance (inches)	Length (inches)	Weight (lbs.)	Connection Quick Couplers
3 6242 0010*	3/4" F	554	44	22	1.6	4 - 13	1000	1	20	22	1/2" FF
3 6243 0010*	3/4" F	223	44	90	1.6	4 - 13	1000	1	20	22	1/2" FF

\* Also available with 1/2" and 3/4" Male Square Drive

# Pneumatic and Hydraulic Drive Units

High torque and slow speed for special driving and tapping applications



- Both Pneumatic and Hydraulic models available
- One-year warranty



Hydraulic Drive Unit Model No.	Square Drive	Stall Torque at 90 PSI (ft-lbs.)	Free Speed (RPM)	Load Speed (RPM)	Power (HP)	Oil Flow (GPM)	Oil Pressure (PSI)	Side to Center Distance (inches)	Weight (lbs.)	Connection Quick Couplers
2 2090 0010	3/4" F	376	40	20	1.5	4 - 13	1000	2.2	28	1/2" FF
2 2810 0010	1-1/8" F	1550	24	12	3.5	4 - 13	1000	3.6	77	1/2" FF

Pneumatic Drive Unit Model No.	Square Drive	Stall Torque at 90 PSI (ft-lbs.)	Free Speed (RPM)	Load Speed (RPM)	Power (HP)	CFM at 90 PSI	Side to Center Distance (inches)	Weight (lbs.)	Air Connection (inches)	Hose ID (inches)
2 2804 0010	1-1/8" F	1327	40	20	5	141	3.6	82	NPT 1"	1"

## Drive Units and Special Motors Electric and Pneumatic for Custom Applications



- High-torque, variable-speed reversible motors
- Driving applications include mills, spindles, bar boring, tube rolling and valve turning
- Custom-designed motors for special driving applications



Male Sq. Drive or MT Spindle

# Pneumatic Chisel Scalers / Needle Scalars

**Ideal for chipping and removing metal, stone, concrete and brick, as well as carving wood**

- Use in oilfields, fabrication shops, petrochemical plants, construction sites and foundries
- Chisel scalars are general-purpose hammers for chipping stone, metal, concrete, brick and for carving wood
- Needle scalars are ideal for removing weld splatter, rust, paint and other debris from many surfaces and hard-to-reach places

### Non-sparking Needles – CuBe

Copper Beryllium non-sparking needles available for CSU-182LNS and CSU-1BLNS.

Ex308-319B - 7" long needle, 19 per pack  
Ex308-3100B - 7" long needle, 100 per pack



**Model CSU-182LCS**

**Scaling Hammer with Lever Throttle**

Gooseneck handle and push throttle hammers also available.

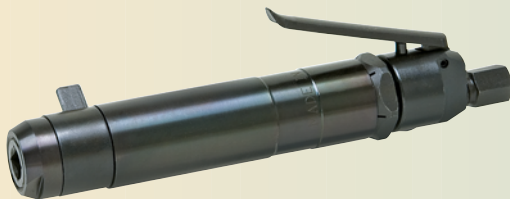


**Model CSU-182LNS**

**Needle Scaler with Lever Throttle**

Push throttle hammers also available.

Non-sparking CuBe needles (Ex308-319B) available.



**Model CSU-1BLCS**

**Chisel Scaler with Lever Throttle**



**Model CSU-1BLNS**

**Needle Scaler with Lever Throttle**

Non-sparking CuBe needles (Ex308-319B) available.

### Accessories available:



**CSU-43: 7" Steel Needles**  
**EX308-319B: 7" CuBe Needles**

**CSU-047: 3/4" Flat Chisel**  
**CSU-048: 1-3/8" Angle Chisel**

Ask About Non-sparking CuBe Chisels.



Model No.	Bore	Stroke	Blows per Minute	Rec'd Hose Size	Length	Weight (lbs.)	Air Inlet Thread	CFM at 90 PSI
<b>Scaling Hammer - Lever Throttle</b> (takes 1/2" ir notched shank chisels)								
<b>CSU-182LCS</b>	15/16"	1-1/16"	4000	1/4"	9"	4	1/4"	13
<b>Needle Scaler - Lever Throttle</b> (requires 19 needles; takes 1/2" ir notched shank chisels)								
<b>CSU-182LNS</b>	15/16"	1-1/16"	4000	1/4"	17"	5.75	1/4"	13
<b>Chisel Scaler - Lever Throttle</b> (takes 1/2" c notched shank chisels)								
<b>CSU-1BLCS</b>	1"	1-1/8"	4600	1/4"	10-1/4"	3.625	1/4"	6
<b>Needle Scaler - Lever Throttle</b> (requires 19 needles; takes 1/2" c notched shank chisels)								
<b>CSU-1BLNS</b>	1"	1-1/8"	4600	1/4"	17"	6.2	1/4"	12

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