Hole Cutting • Twist Drilling
Tapping • Reaming

Magnetic Drills
Annular Cutters
Hand-held Drills
Drive Units
Nut Runners
Beveling Machines
Portable Magnetic Drilling Machines

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

Designed for continuous operation, CS Unitec's portable magnetic drills are ideal for drilling structural steel and virtually any metal. We offer the most compact, powerful and reliable series of portable magnetic drills for holes up to 5-1/8" diameter. All CS Unitec drills are heavy-duty for use in construction and industry. Our complete line includes electric, pneumatic and hydraulic tools. They are available for prompt delivery.

CS Unitec is the industry leader in:
- Power-to-weight ratios
- Strongest clamping force with high-density (HD) dual-coil magnets
- Magnetic drills for tapping
- Annular Cutters: TiAlN, HSS, cobalt steel and carbide-tipped

Our drills have unique features:
- Longest drill stroke in the industry
- Variable-speed, multiple-gear ed models
- Electric, pneumatic and hydraulic power
- Reversible motors for tapping
- Swivel base stand for hard-to-reach areas
- Battery-operated for on-site cordless drilling

Rugged construction and sophisticated functionality.

Intuitive magnets, ergonomic controls and simple operation for superior cuts.

Overheating Protection with CoolMag™ Electromagnets

CoolMag™ 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 CoolMag feature reduces the power of the magnets when the drill motor is not active. Therefore, it won’t build up heat.

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.

Custom machines for unique applications

Our engineers can create a drill, drill rig, or other application-specific arrangement to meet your needs. See page 61 for more information, or call 1-800-700-5919 for design assistance.

ARMOR-PLATED™ TiAlN Cutters

Are ideal for all drilling applications. A high surface hardness and greater lubricity allow for drilling at high operating temperatures with more power and speed.

Keyless, quick-change system for annular cutters saves time and money. Just twist and lock.
IQ Magnetic System for Active Safety

Magnetic force is the key to safety and success.

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

The SAFEMAG™ 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 tells you if the correct force is present (Green Light).

LED red... insufficient magnetic force. Drilling should not take place. Possible causes are too-thin material, coatings of paint, scale or zinc.

LED green... the magnetic adhesion meets the minimum requirements. Drilling can take place.

Our Electronic Safety Shutoff Sensor automatically shuts down the drill motor if the magnet loses contact with the material. This emergency-off feature helps to protect both operator and equipment.

Integrated cable routing: MAB Series

The new generation of our MAB portable magnetic drilling machines has been developed for increased safety. This includes complete cable routing within the casing.
- No threading and getting caught
- No tearing or snapping off

Simple, ergonomic arrangement of controls for one-handed operation. Emergency-off function for quick shutdown.

High power at low speeds. Electronic torque control prevents damage to motor.
**Portable Magnetic Drills**

**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.

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.

**Safety**

Operators of any power tool should use appropriate safety precautions for work being performed. This includes safety chains, eye protection, hearing protection, gloves and more. Follow instructions included in operating manual.

**AutoMAB 350 & AutoMAB 450**
Capacity: ø 1-1/2" to ø 1-3/4" cutter
Automatic feed – forward and reverse

**MABasic Series**
Capacity: ø 1-3/8" to 3-1/16" cutter
Professional grade, versatile

**MAB 155**
Capacity: ø 1-1/2" cutter
For drilling in tight spaces

**MAB 465**
Capacity: ø 1-5/8" cutter; ø 5/8" twist drill
Reversible, 2-gear motor

**MAB 455 & MAB 455 SB**
Capacity: ø 2-1/16" cutter; ø 7/8" twist drill
Swivel base (MAB 455 SB)

**MAB 525 & MAB 525 SB**
Capacity: ø 2-1/2" cutter; ø 1" twist drill;
ø 15/16" tapping
Reversible, 2-gear motor
Swivel base (MAB 525 SB)

**MAB 825, MAB 825 V & MAB 845**
Capacity: ø 4-1/16" cutter; ø 1-1/4" twist drill;
ø 1-1/8" tapping
Auto feed (MAB 825 V)
Reversible, 4-gear motor
Swivel base (MAB 845)

**MAB 1300 & MAB 1300 V**
Capacity: ø 5-1/8" cutter; ø 1-3/4" twist drill;
ø 5-8" tapping
Reversible, 4-gear motor
Auto feed and reverse (MAB 1300 V)
The ultimate in power

**AIRBOR™ AB-4300**
Pneumatic power
Capacity: ø 2-1/16" cutter; ø 1/2" twist drill
ATEX for hazardous environments

**Hydraulic power**
Capacity: ø 4" cutter; ø 1-1/4" twist drill
Reversible for tapping

**Model 2 1345 0010**
Hydraulic power
Capacity: ø 4" cutter; ø 1-1/4" twist drill
Reversible for tapping

**HB 4400**
Hydraulic power
Capacity: ø 2-1/16" cutter; ø 1/2" twist drill
For marine, construction and underwater applications

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7/16” to 5-1/8” diameter  
1”, 2” and 3” depth  
Special sizes available

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Tungsten carbide-tipped  
1/2” to 5-1/8” diameter  
1”, 2-3/8” and 3-3/8” depth  
Special sizes available

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For higher working temperatures  
7/16” to 5-1/8” diameter  
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<td>up to ø 5/8&quot;</td>
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<td>430</td>
<td>780</td>
<td>245</td>
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<td></td>
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<td>MABasic 400</td>
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<td>up to ø 3/4&quot;</td>
<td>up to ø 1-3/4&quot;</td>
<td>up to ø 2-1/16&quot;</td>
<td>6-1/3&quot;</td>
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<td>450</td>
<td>780</td>
<td>245</td>
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<td>6-5/8&quot; x 3-1/2&quot;</td>
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<td>MABasic 450</td>
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<td>up to ø 1-7/16&quot;</td>
<td>up to ø 1-5/8&quot;</td>
<td>up to ø 2-1/16&quot;</td>
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<td>450</td>
<td>780</td>
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<td>up to ø 15/16&quot;</td>
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<td>460</td>
<td>780</td>
<td>245</td>
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<td>8-11/16&quot; x 3-3/4&quot;</td>
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<tr>
<td>MAB 155</td>
<td>up to ø 1-7/16&quot;</td>
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<td>up to ø 4-1/16&quot;</td>
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<td>MAB 465</td>
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<td>6-1/3&quot;</td>
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<td>7-1/8&quot; x 3-1/2&quot;</td>
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<td>MAB 485</td>
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<td>up to ø 1-5/8&quot;</td>
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<td>6-5/8&quot; x 3-1/2&quot;</td>
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<td>MAB 485 SB</td>
<td>up to ø 2-1/4&quot;</td>
<td>up to ø 7/8&quot;</td>
<td>up to ø 3-1/4&quot;</td>
<td>up to ø 1-5/8&quot;</td>
<td>up to ø 2&quot;</td>
<td>6-1/3&quot;</td>
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<td>57 lbs.</td>
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<td>6-5/8&quot; x 3-1/2&quot;</td>
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<tr>
<td>MAB 525</td>
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<td>35 lbs.</td>
<td>450</td>
<td>500</td>
<td>100-450</td>
<td>35 lbs.</td>
<td>Set Screw</td>
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<td>MAB 525 SB</td>
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<td>up to ø 2-1/2&quot;</td>
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<td>6-5/8&quot; x 3-1/2&quot;</td>
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**Special Features**
- **Electronic Safety Shutoff Sensor**
- **CoolMag Magnet**
- **SafeMag System**
- **Overheating protection**
- **Magnet adhesion indicator**
- **Shuts down motor if magnetic contact lost**
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<td>MAB 825</td>
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<tr>
<td>MAB 825 V</td>
<td>Special Features</td>
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<td>MAB 840</td>
<td>Special Features</td>
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<td>Model 2</td>
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<td>5010</td>
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<tr>
<td>HB 4400</td>
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<tr>
<td>CSU 32RL</td>
<td>Special Features</td>
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<td>CSU 50AC/CSU 50RL</td>
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<tr>
<td>CSU 100/3RL</td>
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<td>250</td>
<td>110</td>
<td>460</td>
<td>50-250</td>
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<td>175</td>
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<td>Morse Taper (MT)</td>
<td>MT2</td>
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<td>Magnet Size</td>
<td>6-5/8&quot; x 3-1/3&quot;</td>
<td>6-5/8&quot; x 3-1/3&quot;</td>
<td>6-5/8&quot; x 3-1/3&quot;</td>
<td>8-5/8&quot; x 4-1/3&quot;</td>
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<td>CoolMag Magnet</td>
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<td>Prevents unintentional thread cutting</td>
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</tr>
</tbody>
</table>

**NOTES:**
- Pneumatic/Hydraulic
- Allows thread cutting
- CSU (CSU RL only)
MABasic 200

Heavy-duty, purpose-built, single-speed workhorse

Powerful • Reliable

• Strong 8.2 Amp motor
• Compact, lightweight and portable – 12-1/4” high, 27 lbs.

Drill up to 1-3/8” dia.

• Uses annular cutters up to 1-3/8” dia.; 6-1/3” stroke
• Twist drilling capacity up to 1/2” dia.;
• 3-1/3” stroke with included geared chuck
• Internal lubrication system

With included 1/4” chuck, this model easily converts to a standard drill press with a 3 1/3” stroke for conventional twist drills.

MABasic 200 Specifications

- Motor Power 8.2 Amp / 110 Volt
- Weight 27 lbs.
- Hole Capacity 1 1/4” dia.
- Twist Drill Capacity 1/2” dia.
- Speed 450 RPM
- Magnet Base Size 6 1/4” L x 3 1/4” W
- Dimensions 12 1/2” H x 9” L x 6 1/2” W
- Magnetic Force (1” plate) 3080 lbs.
- Arbor Bore 3/4” Weldon Shank
- Internal Lubrication Oil Bottle Included

Standard Equipment includes lubrication bottle, 3/4” weldon shank, 1/2” geared chuck, safety strap, carabin hook, allen keys, pilot pin and carrying case.

With included 1/2” geared chuck, the MABasic 400 easily converts to standard drill press with a 3 1/3” stroke for conventional twist drills.

Equipped with Electronic Safety Shutoff Sensor (see p. 3)

Made in Germany

Powered by
**MABasic 400**

Two gears – powerful and reliable

**Powerful • Reliable**
- 9.5 Amp double-insulated motor
- 3/4" direct arbor

**Drill up to 1-5/8" dia.**
- Uses annular cutters up to 1-5/8" dia.
- Twist drilling capacity up to 5/8" dia.
- 3-1/3" stroke with chuck
- Internal lubrication system
- Compact and lightweight

---

**MABasic 400 Specifications**

- **Motor Power**: 9.5 Amp / 110 Volt
- **Weight**: 27 lbs.
- **Hole Capacity**: 1 1/8" dia.
- **Twist Drill Capacity**: 5/8" dia.
- **Speeds**: 430 / 760 RPM (2 gears)
- **Magnet Base Size**: 6 1/4" L x 3 1/2" W
- **Dimensions**: 14" H x 9 1/2" L x 6 1/2" W
- **Magnetic Force (1" plate)**: 3080 lbs.
- **Arbor Bore**: 3/4" Weldon Shank
- **Internal Lubrication**: Oil Bottle Included

---

**Standard Equipment**
Includes lubrication bottle, geared chuck, safety strap, carabin hook, allen keys, pilot pin and carrying case

---

**Annular Cutters**: pages 36-46  **Accessories**: pages 47-53
MABasic 450

Professional-grade, two-speed versatility

**Powerful • Reliable**

- 10.5 Amp double-insulated motor
- MT2 – 3/4” direct arbor with automatic cooling

**Drill up to 1-3/4” dia.**

- Uses annular cutters up to 1-3/4” dia.
- Twist drilling capacity up to 3/4” dia.
- Internal lubrication system
- Compact and lightweight

**MABasic 450 Specifications**

- **Motor Power**: 10.5 Amp / 110 Volt
- **Weight**: 29 lbs.
- **Hole Capacity**: 1-1/16” dia.
- **Twist Drill Capacity**: 3/4” dia.
- **Speeds**: 250 / 450 RPM (2 gears)
- **Magnet Base Size**: 6-5/8” L x 3-1/2” W
- **Dimensions**: 17” H x 9-1/2” L x 6-1/2” W
- **Magnetic Force (1” plate)**: 3080 lbs.
- **Arbor Bore**: 3/4” Weldon Shank
- **Spindle**: MT2
- **Internal Lubrication**: Oil Bottle Included

**Standard Equipment**

- Includes lubrication bottle, 1/2” geared chuck*, safety strap, carabin hook, allen keys, pilot pin and carrying case.

- Optional 3/4” geared chuck available

---

*Optional 3/4” geared chuck available*
MABasic 850

4-gear, powerful motor for demanding jobs

**Powerful • Reliable**
- 16 Amp double-insulated motor
- MT3 – 3/4" direct arbor with automatic cooling
- 19-3/8" high, 53 lbs.
- High-speed, 4-speed gearbox

**Drill up to 3-1/16" dia.**
- Uses annular cutters up to 3-1/16"; 10" stroke
- Twist drilling capacity up to 1-1/4" dia.
- Internal lubrication system

With included 1/2" chuck this model easily converts to a standard drill press for conventional twist drills. Optional 3/4" geared chuck available (Part No. IBC 21).

**MABasic 850 Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Power</td>
<td>16 Amp / 110 Volt</td>
</tr>
<tr>
<td>Weight</td>
<td>53 lbs</td>
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<tr>
<td>Hole Capacity</td>
<td>3-1/8&quot; dia.</td>
</tr>
<tr>
<td>Twist Drill Capacity</td>
<td>1-1/4&quot; dia.</td>
</tr>
<tr>
<td>Speeds</td>
<td>1: 110 RPM; 2: 175 RPM; 3: 245 RPM; 4: 385 RPM</td>
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<tr>
<td>Magnet Base Size</td>
<td>8-3/4&quot; L x 4-1/4&quot; W</td>
</tr>
<tr>
<td>Dimensions</td>
<td>19-3/4&quot; H x 11-3/4&quot; L x 8-1/4&quot; W</td>
</tr>
<tr>
<td>Magnetic Force (1&quot; plate)</td>
<td>6000 lbs</td>
</tr>
<tr>
<td>Arbor Bore</td>
<td>3/4&quot; Weldon Shank</td>
</tr>
<tr>
<td>Spindle</td>
<td>MT3</td>
</tr>
<tr>
<td>Internal Lubrication</td>
<td>Included</td>
</tr>
</tbody>
</table>

**Standard Equipment** Includes
- 1/2" geared chuck, safety strap, carabin hook, allen keys, pilot pin and carrying case.
- Optional 3/4" geared chuck available

**PORTABLE MAGNETIC DRILLS**

Made in Germany

Powered by

Cutter capacity 3 1/4" dia.
MAB 155

Horizontal motor mount for drilling in tight spaces

Powerful • Reliable
- 9.25 Amp double-insulated motor
- Ultra compact, 7" high
- Ratchet-style advancing mechanism for work in spaces with limited clearance
- Lightweight, 24 lbs.
- Intelligent electronic torque control
- Designed for continuous use

Drill up to 1-1/2" dia.*
- Uses annular cutters up to 1-1/2" dia.

Integrated Safety
- Emergency-off function
- Internal cable routing
- Simple, ergonomic arrangement of controls for one-handed operation

MAB 155 uses standard 3/4" shank annular cutters

* Model MAB 155 accepts cutters with a 3/4" weldon shank and a maximum depth of cut of 1-1/2".

MAB 155 uses standard 3/4" shank annular cutters

Cutter Capacity

- ø 1 1/2"

Stroke (length)

- 11/16" - 11/16"

Speed Range (RPM)

- 460

Switches for power and magnet adhesion are arranged for simple, uncomplicated operation.

- Annular Cutters: pages 36-46
- Accessories: pages 47-53

Internal cable routing protects the motor power cord from external damage.
**Model MAB 155 Specifications**

- **Motor Power**: 9.25 Amp / 110 Volt
- **Weight**: 24 lbs.
- **Hole Capacity**: 1 1/2" dia.
- **Speed**: 460 RPM
- **Magnet Base Size**: 6 11/16" L x 3 1/8" W
- **Dimensions**: 7 1/8" H x 13 11/16" L x 4 3/4" W
- **Magnetic Force (1" plate)**: 2640 lbs.
- **Arbor Bore**: 3/4" Weldon Shank

**Standard Equipment**

- 1 Magnetic drilling machine
- 1 Pilot pin
- 1 Plastic carrying case
- 1 Safety chain
- 1 Hexagon socket screw key SW 4
- 1 Operating manual
- 1 Warranty certificate

---

**Cutter capacity 1 1/2" dia.**

**Switches for power and magnet adhesion are arranged for simple, uncomplicated operation.**

**Powerful • Reliable**

- 9.25 Amp double-insulated motor
- Ultra compact, 7" high
- Ratchet-style advancing mechanism for work in spaces with limited clearance
- Lightweight, 24 lbs.
- Intelligent electronic torque control
- Designed for continuous use
- Drill up to 1 1/2" dia.
- Uses annular cutters up to 1 1/2" dia.

**Internal cable routing** protects the motor power cord from external damage.

**Advancing lever can be mounted on either the left or right side of the MAB 155.**

---

**Standard Equipment also includes safety strap, carabin hook and allen keys.**

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**Annular Cutters: pages 36-46**

---

**Accessories: pages 47-53**
MAB 465

Reversible motor ideal for tapping and twist drilling

**Powerful • Reliable**
- 10.5 Amp double-insulated motor
- 14-1/8" high, 29 lbs.
- High-speed, variable-speed oilbath gearbox, ideal for annular cutters and twist drills
- Designed for continuous use

**Drill up to 1-5/8" dia. Tap up to 5/8" dia.**
- Uses annular cutters up to 1-5/8" dia.
- Twist drilling capacity up to 5/8" dia.
- Tapping capacity up to 5/8" dia.
- Integrated cutting oil reservoir
- Automatic internal lubrication

**Integrated Safety**
- Green/Red LED magnetic force indicator for safe operation
- Internal cable routing
- Simple, ergonomic arrangement of controls for one-handed operation
- Emergency-off function

---

**Optional Geared Chucks**
With an optional 1/2" geared chuck (Part No. IBC 18), this model easily converts to a standard drill press with a 5" stroke for conventional twist drills. A 3/4" geared chuck is also available (Part No. IBC 22).

---

**Model MAB 465 Specifications**
- Motor Power: 9.5 Amp / 110 Volt
- Weight: 29 lbs.
- Hole Capacity: 1 5/8" dia.
- Twist Drill Capacity: 5/8" dia.
- Speeds: 50-250 and 100-450 RPM
- Magnet Base Size: 6 5/8" L x 3 1/3" W
- Dimensions: 14 1/8" H x 9 5/8" L x 6 1/2" W
- Magnetic Force (1" plate): 3750 lbs.
- Arbor Bore: 3/4" Weldon Shank
- Automatic Lubrication Included

---

**Standard Equipment**
- 1 Magnetic drilling machine
- 1 Manual arbor with set screws, Weldon 3/4"
- 2 Pilot pins - 1" and 2" depth
- 1 Safety chain

---

**Optional Accessories**
- Molded plastic carrying case
- Operating manual
- Auto lubrication
- Safety strap and allen keys
- Overheat Protection
- CoolMag™
- SafeMag™

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**Cutter Capacity**
- Ø 1 1/2" / Ø 5/8" / Ø 1 1/2"
- Ø 5/8" / Ø 1 1/2"
- Ø 1 1/2" / Ø 3/4" / Ø 5/8" / Ø 1 1/2"
- 1 5/8" / Ø 1 1/2"
- 6 1/2" / 5 1/2"
- 10" / 10"
- 5-250 RPM
- 100-450 RPM
- 50-250 RPM
- 100-450 RPM

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**Annular Cutters: pages 36-46**
**Accessories: pages 47-53**
Model MAB 465 Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Power</td>
<td>10.5 Amp / 110 Volt</td>
</tr>
<tr>
<td>Weight</td>
<td>29 lbs.</td>
</tr>
<tr>
<td>Hole Capacity</td>
<td>1 5/8&quot; dia.</td>
</tr>
<tr>
<td>Twist Drill Capacity</td>
<td>5/8&quot; dia.</td>
</tr>
<tr>
<td>Speeds</td>
<td>50-250 and 100-450 RPM</td>
</tr>
<tr>
<td>Magnet Base Size</td>
<td>6 1/8&quot; L x 3 1/8&quot; W</td>
</tr>
<tr>
<td>Dimensions</td>
<td>14 1/8&quot; H x 9 5/8&quot; L x 6 1/8&quot; W</td>
</tr>
<tr>
<td>Magnetic Force (1&quot; plate)</td>
<td>3750 lbs.</td>
</tr>
<tr>
<td>Arbor Bore</td>
<td>5/8&quot; Weldon Shank</td>
</tr>
<tr>
<td>Automatic Lubrication</td>
<td>Included</td>
</tr>
</tbody>
</table>

Standard Equipment

1 Magnetic drilling machine
1 Manual arbor with set screws, Weldon 3/4"
2 Pilot pins - 1" and 2" depth
1 Safety chain

See pages 36-43 for our HSS, TiAlN and Carbide-tipped cutters.
MAB 455 & MAB 455 SB

High power with keyless quick-change chuck system

**Powerful • Reliable**
- 10.5 Amp double-insulated motor
- 17-1/4" high, 29 lbs.
- High-speed, 2-speed oilbath gearbox, ideal for annular cutters and twist drills
- Designed for continuous use
- Intelligent electronic torque control

**Drill up to 2-1/16" dia.**
- Uses annular cutters up to 2-1/16" dia.
- Twist drilling capacity up to 7/8"
- Integrated cutting oil reservoir
- Automatic internal lubrication

**Keyless Cutter Mount**
- Quick-change keyless cutter system for 3/4" Weldon shank, standard
- Also includes manual arbor for 3/4" Weldon shank (MT2) with set screws

**Integrated Safety**
- Green/Red LED magnetic force indicator for safe operation
- Internal cable routing
- Simple, ergonomic arrangement of controls for one-handed operation
- Emergency-off function

**Model MAB 455 & MAB 455 SB Specifications**

- **Motor Power**
  - 10.5 Amp / 110 Volt
- **Weight**
  - 29 lbs.
- **Hole Capacity**
  - MAB 455: 2 1/16" dia.
  - MAB 455 SB: 2 1/16" dia.
- **Twist Drill Capacity**
  - 7/8" dia.
- **Speeds**
  - 250 / 450 RPM (2 gears)
- **Magnet Base Size**
  - 6 5/8" L × 3 1/3" W
- **Dimensions**
  - 17 1/4" H × 11 5/8" L × 7" W
- **Magnetic Force (1" plate)**
  - 3750 lbs.
- **Arbor Bore**
  - 3/4" Weldon Shank
- **Spindle**
  - MT2
- **Automatic Lubrication**
  - Included
- **Swivel Base**
  - Order MAB 455 SB

**Standard Equipment**

- 1 Magnetic drilling machine
- 1 Quick-change arbor system
- KEYLESS Weldon 3/4"
- 1 Manual arbor with set screws, Weldon 3/4", MT2
- 2 Pilot pins - 1" and 2" depth
- 1 Safety chain
- 1 Drift key MT2
- 1 Warranty certificate

**Accessories**

- Annular Cutters: pages 36-46
- Accessories: pages 47-53

With an optional 1/2" geared chuck (Part No. IBC 18), this model easily converts to a standard drill press with a 5" stroke for conventional twist drills. A 3/4" geared chuck is also available (Part No. IBC 22).

Model MAB 455 SB features a swivel base providing 20° movement left and right and 5/8" forward and backward.

**Cutters**

- MAB 455 ø 2 1/16"
- MAB 455 SB ø 2 1/16"
- ø 7/8" for twist drill
- ø 5/8" for cutting oil reservoir

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**Annular Cutters:**

- Pages 36-46

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**Accessories:**

- Pages 47-53
Model MAB 455 & 455 SB Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>Weight</td>
<td>29 lbs.</td>
</tr>
<tr>
<td>Hole Capacity MAB 455</td>
<td>2½&quot; dia.</td>
</tr>
<tr>
<td>Hole Capacity MAB 455 SB</td>
<td>2½&quot; dia.</td>
</tr>
<tr>
<td>Twist Drill Capacity</td>
<td>7/8&quot; dia.</td>
</tr>
<tr>
<td>Speeds</td>
<td>250 / 450 RPM (2 gears)</td>
</tr>
<tr>
<td>Magnet Base Size</td>
<td>6¾&quot; L x 3½&quot; W</td>
</tr>
<tr>
<td>Dimensions</td>
<td>17¾&quot; H x 11½&quot; L x 7&quot; W</td>
</tr>
<tr>
<td>Magnetic Force (1&quot; plate)</td>
<td>3750 lbs.</td>
</tr>
<tr>
<td>Arbor Bore</td>
<td>7/8&quot; Weldon Shank</td>
</tr>
<tr>
<td>Spindle</td>
<td>MT2</td>
</tr>
<tr>
<td>Automatic Lubrication</td>
<td>Included</td>
</tr>
<tr>
<td>Swivel Base</td>
<td>Order MAB 455 SB</td>
</tr>
</tbody>
</table>

Standard Equipment

1 Magnetic drilling machine
1 Quick-change arbor system
1 Manual arbor with set screws, Weldon 3/4", MT2
2 Pilot pins - 1" and 2" depth
1 Safety chain
1 Drift key MT2
1 Warranty certificate

Standard Equipment also includes molded plastic carrying case, operating manual, auto lubrication, safety strap, carabin hook and allen keys.
**MAB 485 & MAB 485 SB**

Versatile for workshop and assembly applications

**Powerful • Reliable**
- 10.5 Amp double-insulated motor
- 17-1/4" high, 29 lbs.
- High-speed, variable-speed oilbath gearbox, ideal for annular cutters and twist drills
- Designed for continuous use
- Intelligent electronic torque control

**Drill up to 2-1/16" dia. Tap up to 15/16" dia.**
- Uses annular cutters up to 2-1/16" dia.
- Twist drilling capacity up to 7/8" dia.
- Tapping capacity 3/16" to 15/16" dia.
- Integrated cutting oil reservoir
- Automatic internal lubrication
- Swivel base (model MAB 485 SB)

**Keyless Cutter Mount**
- Quick-change keyless cutter system for 3/4" Weldon shank, standard
- Also includes manual arbor for 3/4" Weldon shank (MT2) with set screws

**Integrated Safety**
- Green/Red LED magnetic force indicator for safe operation
- Internal cable routing
- Simple, ergonomic arrangement of controls for one-handed operation
- Emergency-off function

**Specifications**
- Model MAB 485
  - Motor Power: 10.5 Amp / 110 Volt
  - Weight: 29 lbs.
  - Hole Capacity: 21/16" dia.
  - Twist Drill Capacity: 7/8" dia.
  - Tapping Capacity: 15/16" dia.
  - Speeds: 50-250 and 100-450 RPM
  - Magnet Base Size: 65/8" L x 31/3" W
  - Dimensions: 17 1/4" H x 11 5/8" L x 7" W
  - Magnetic Force (1" plate): 3750 lbs.
  - Arbor Bore: 3/4" Weldon Shank
  - Spindle: MT2
  - Automatic Lubrication Included
  - Swivel Base: Order MAB 485 SB

**Standard Equipment**
1 Magnetic drilling machine
1 Quick-change arbor system, KEYLESS Weldon 3/4"
1 Manual arbor with set screws, Weldon 3/4", MT2
2 Pilot pins - 1" and 2" depth
1 Safety chain
1 Drift key, MT2
Tap collet adapters - 3/8", 1/2" and 3/4"
1 Warranty certificate

**Optional Geared Chuck**
With an optional 1/2" geared chuck (Part No. 816-78), this model easily converts to a standard drill press with a 5" stroke for conventional twist drills. A 3/4" geared chuck is also available (Part No. 816-22).

**Model MAB 485 SB** features a swivel base providing 20° movement left and right and 5/8" forward and backward.
PORTABLE MAGNETIC DRILLS

MAB 485 & MAB 485 SB Specifications

Model MAB 485 Specifications

- **Motor Power**: 10.5 Amp / 110 Volt
- **Weight**: 29 lbs.
- **Hole Capacity**: 2 1/16" dia.
- **Twist Drill Capacity**: 7/8" dia.
- **Tapping Capacity**: 15/16" dia.
- **Speeds**: 50-250 and 100-450 RPM
- **Magnet Base Size**: 6 5/8" L x 3 3/4" W
- **Dimensions**: 17 1/4" H x 11 5/8" L x 7" W
- **Magnetic Force (1" plate)**: 3750 lbs.
- **Arbor Bore**: 5/8" Weldon Shank
- **Spindle**: MT2
- **Automatic Lubrication**: Included
- **Swivel Base**: Order MAB 485 SB

**Standard Equipment**

- 1 Magnetic drilling machine
- 1 Quick-change arbor system KEYLESS Weldon 3/4"
- 1 Manual arbor with set screws, Weldon 3/4", MT2
- 2 Pilot pins - 1" and 2" depth
- 1 Safety chain
- 1 Drift key MT2
- Tap collet adapters - 3/8", 1/2" and 3/4"
- 1 Warranty certificate

**Standard Equipment also includes**

- Molded plastic carrying case, operating manual, auto lubrication, safety strap, carabin hook and allen keys.

**Optional Geared Chuck**

- With an optional 1/2" geared chuck (Part No. IBC 18), this model easily converts to a standard drill press with a 5" stroke for conventional twist drills. A 3/4" geared chuck is also available (Part No. IBC 22).

**Swivel Base**

- Model MAB 485 SB features a swivel base providing 20° movement left and right and 5/8" forward and backward.

**Optional Pipe Saddle Clamp System**

- For safe, secure drilling of pipes and tubular material. See page 53 for details.

**Shown with optional Pipe Saddle Clamp**

Made in Germany

Powered by

1-800-700-5919
Visit our Web site at www.csunitec.com
# MAB 525 & MAB 525 SB

## High power, ideal for production use

### Powerful • Reliable
- 14.5 Amp double-insulated motor
- 19" high, 35 lbs.
- High-speed, 2-speed oilbath gearbox, ideal for annular cutters and twist drills
- Designed for continuous use
- Intelligent electronic torque control

### Drill up to 2-1/2" dia. Tap up to 15/16" dia.
- Uses annular cutters up to 2-1/2" dia.
- Twist drilling capacity up to 1" dia.
- Tapping capacity up to 15/16" dia.
- Integrated cutting oil reservoir
- Automatic internal lubrication
- Swivel base (model MAB 525 SB)

### Keyless Cutter Mount
- Quick-change keyless cutter system for 3/4" Weldon shank
- Also includes manual arbor for 3/4" Weldon shank (MT3) with set screws

### Integrated Safety
- Green/Red LED magnetic force indicator for safe operation
- Internal cable routing
- Simple, ergonomic arrangement of controls for one-handed operation
- Emergency-off function

### Model MAB 525 SB features a swivel base providing 20° movement left and right and \( \frac{1}{16} \)" forward and backward.

### Specifications
- **Motor Power**: 14.5 Amp / 110 Volt
- **Weight**: 35 lbs.
- **Hole Capacity**: 2-1/2" dia.
- **Twist Drill Capacity**: 1" dia.
- **Tapping Capacity**: 15/16" dia.
- **Speeds**: 70-280 and 180-580 RPM
- **Magnet Base Size**: 7-1/8" L x 3-1/2" W
- **Dimensions**: 19" H x 11-3/4" L x 6-3/4" W
- **Magnetic Force (1" plate)**: 4500 lbs.
- **Arbor Bore**: 3/4" Weldon Shank
- **Spindle MT3**
- **Automatic Lubrication Included**

### Model MAB 525 SB accessories
- Swivel Base (Part No. IBC 21)
- 3/4" Chuck (Part No. IBC 21)

---

**Annular Cutters**: pages 36-46  
**Accessories**: pages 47-53
MAB 525 & MAB 525 SB Specifications

**Model MAB 525 Specifications**
- Motor Power: 14.5 Amp / 110 Volt
- Weight: 35 lbs.
- Hole Capacity: 2 1/2" dia.
- Twist Drill Capacity: 1" dia.
- Tapping Capacity: 15/16" dia.
- Speeds: 70-280 and 180-580 RPM
- Magnet Base Size: 7 1/4" L x 3 1/2" W
- Dimensions: 19" H x 11 3/4" L x 6 3/4" W
- Magnetic Force (1" plate): 4500 lbs.
- Arbor Bore: 3/4" Weldon Shank
- Spindle: MT3
- Automatic Lubrication: Included
- Swivel Base: Order MAB 525 SB

**Standard Equipment**
- 1 Magnetic drilling machine
- 1 Quick-change arbor system
- KEYLESS Weldon 3/4"
- 1 Manual arbor with set screws, Weldon 3/4", MT3
- 2 Pilot pins - 1" and 2" depth
- 1 Safety chain
- 1 Drift key MT3
- Tap collet adapters - 1/4", 3/8", 1/2" and 3/4"
- 1 Warranty certificate

**Model MAB 525 SB Specifications**
- Motor Power: 14.5 Amp / 110 Volt
- Weight: 35 lbs.
- Hole Capacity: 2 1/2" dia.
- Twist Drill Capacity: 1" dia.
- Tapping Capacity: 15/16" dia.
- Speeds: 70-280 and 180-580 RPM
- Magnet Base Size: 7 1/4" L x 3 1/2" W
- Dimensions: 19" H x 11 3/4" L x 6 3/4" W
- Magnetic Force (1" plate): 4500 lbs.
- Arbor Bore: 3/4" Weldon Shank
- Spindle: MT3
- Automatic Lubrication: Included
- Swivel Base: Order MAB 525 SB

**Standard Equipment**
- 1 Magnetic drilling machine
- 1 Quick-change arbor system
- KEYLESS Weldon 3/4"
- 1 Manual arbor with set screws, Weldon 3/4", MT3
- 2 Pilot pins - 1" and 2" depth
- 1 Safety chain
- 1 Drift key MT3
- Tap collet adapters - 1/4", 3/8", 1/2" and 3/4"
- 1 Warranty certificate

See pages 36-43 for our HSS, TiAlN and Carbide-tipped cutters.

Greater Cutting Capacity 2 1/2" dia.
AutoMAB 350 & AutoMAB 450

Compact drill with automatic feed – forward and reverse

AutoMAB 350
Drill up to 1-1/2" dia.

• 10.5 Amp double-insulated motor
• 3/4" direct arbor
• Uses annular cutters up to 1-1/2" dia.
• Twist drilling capacity up to 1/2" dia.
• 3-1/3" stroke with chuck

AutoMAB 450
Drill up to 1-3/4" dia.*

• 10.5 Amp double-insulated motor
• MT2 – 3/4" direct arbor with automatic cooling
• Uses annular cutters up to 1-3/4" dia.*
• Twist drilling capacity up to 3/4" dia.
• 3-1/2" stroke with chuck

With an optional 1/2" chuck (Part No. IBC 18), the AutoMAB 450 easily converts to a standard drill press for conventional twist drills. An optional 3/4" geared chuck is also available (Part No. IBC 22).

Specifications

<table>
<thead>
<tr>
<th></th>
<th>AutoMAB 350</th>
<th>AutoMAB 450</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Power</td>
<td>10.5 Amp / 110 Volt</td>
<td>10.5 Amp / 110 Volt</td>
</tr>
<tr>
<td>Weight</td>
<td>33 lbs.</td>
<td>36 lbs.</td>
</tr>
<tr>
<td>Hole Capacity</td>
<td>1 1/16&quot; dia.</td>
<td>1 1/8&quot; dia.*</td>
</tr>
<tr>
<td>Drilling Depth</td>
<td>2-3/8&quot; with pilot pin</td>
<td>2-3/8&quot; with pilot pin</td>
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<tr>
<td></td>
<td>4-3/8&quot; without pilot pin</td>
<td>4-3/8&quot; without pilot pin</td>
</tr>
<tr>
<td>Speeds</td>
<td>460 RPM</td>
<td>250 / 450 RPM (2 gears)</td>
</tr>
<tr>
<td>Magnet Base Size</td>
<td>6 5/8&quot; L x 3 1/2&quot; W</td>
<td>6 7/8&quot; L x 3 1/2&quot; W</td>
</tr>
<tr>
<td>Stroke</td>
<td>6&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>Dimensions</td>
<td>12 1/4&quot; H x 8 3/4&quot; L x 7 1/4&quot; W</td>
<td>16 3/4&quot; H x 9 1/4&quot; L x 7 1/4&quot; W</td>
</tr>
<tr>
<td>Magnetic Force (1&quot; plate)</td>
<td>3750 lbs.</td>
<td>3750 lbs.</td>
</tr>
<tr>
<td>Arbor Bore</td>
<td>3/4&quot; Weldon Shank</td>
<td>3/4&quot; Weldon Shank</td>
</tr>
<tr>
<td>Spindle</td>
<td>– MT2</td>
<td>– MT2</td>
</tr>
</tbody>
</table>

* Drilling capacity up to 2" dia. with TCT Carbide cutters.

PORTABLE MAGNETIC DRILLS

Made in Germany

Powered by

Compact drill with automatic feed – forward and reverse

AutoMAB 350 & AutoMAB 450

Compact drill with automatic feed – forward and reverse

AutoMAB 350
Drill up to 1-1/2" dia.

• 10.5 Amp double-insulated motor
• 3/4" direct arbor
• Uses annular cutters up to 1-1/2" dia.
• Twist drilling capacity up to 1/2" dia.
• 3-1/3" stroke with chuck

AutoMAB 450
Drill up to 1-3/4" dia.*

• 10.5 Amp double-insulated motor
• MT2 – 3/4" direct arbor with automatic cooling
• Uses annular cutters up to 1-3/4" dia.*
• Twist drilling capacity up to 3/4" dia.
• 3-1/2" stroke with chuck

With an optional 1/2" chuck (Part No. IBC 18), the AutoMAB 450 easily converts to a standard drill press for conventional twist drills. An optional 3/4" geared chuck is also available (Part No. IBC 22).

Specifications

<table>
<thead>
<tr>
<th></th>
<th>AutoMAB 350</th>
<th>AutoMAB 450</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Power</td>
<td>10.5 Amp / 110 Volt</td>
<td>10.5 Amp / 110 Volt</td>
</tr>
<tr>
<td>Weight</td>
<td>33 lbs.</td>
<td>36 lbs.</td>
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<tr>
<td>Hole Capacity</td>
<td>1 1/16&quot; dia.</td>
<td>1 1/8&quot; dia.*</td>
</tr>
<tr>
<td>Drilling Depth</td>
<td>2-3/8&quot; with pilot pin</td>
<td>2-3/8&quot; with pilot pin</td>
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<tr>
<td></td>
<td>4-3/8&quot; without pilot pin</td>
<td>4-3/8&quot; without pilot pin</td>
</tr>
<tr>
<td>Speeds</td>
<td>460 RPM</td>
<td>250 / 450 RPM (2 gears)</td>
</tr>
<tr>
<td>Magnet Base Size</td>
<td>6 5/8&quot; L x 3 1/2&quot; W</td>
<td>6 7/8&quot; L x 3 1/2&quot; W</td>
</tr>
<tr>
<td>Stroke</td>
<td>6&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>Dimensions</td>
<td>12 1/4&quot; H x 8 3/4&quot; L x 7 1/4&quot; W</td>
<td>16 3/4&quot; H x 9 1/4&quot; L x 7 1/4&quot; W</td>
</tr>
<tr>
<td>Magnetic Force (1&quot; plate)</td>
<td>3750 lbs.</td>
<td>3750 lbs.</td>
</tr>
<tr>
<td>Arbor Bore</td>
<td>3/4&quot; Weldon Shank</td>
<td>3/4&quot; Weldon Shank</td>
</tr>
<tr>
<td>Spindle</td>
<td>– MT2</td>
<td>– MT2</td>
</tr>
</tbody>
</table>

* Drilling capacity up to 2" dia. with TCT Carbide cutters.
MAB 825 KTS

Versatile machine with adjustable X and Y positioning

Powerful • Reliable
• 16 Amp double-insulated motor
• 4-speed oilbath gearbox for applications requiring high power
• Designed for continuous use
• Infinitely variable torque control and full-wave control electronics
• Ideal for a wide variety of drilling, boring and slotting applications
• Includes servo-assisted drilling feature to help maintain feed pressure during operation

Integrated Safety
• Simple, ergonomic arrangement of controls for one-handed operation
• Emergency-off function

Model MAB 825 KTS Specifications

Motor Power 16 Amp / 110 Volt
Weight 99 lbs.
Hole Capacity 3\(\frac{1}{8}\)" dia.
Twist Drill Capacity 1\(\frac{1}{4}\)" dia.
Tapping Capacity 1\(\frac{3}{16}\)" dia.
Speeds 40-110, 65-175 140-360, 220-600 RPM
Magnet Base Size 8\(\frac{1}{2}\)" L x 8\(\frac{1}{2}\)" W
Dimensions 19\(\frac{1}{4}\)" H x 13" L x 14\(\frac{1}{2}\)" W
Magnetic Force (1" plate) 6600 lbs.
Arbor Bore 3/4" Weldon Shank
Spindle MT3
Automatic Lubrication Included

Standard Equipment
1 Magnetic drilling machine, 1 Steel carrying case
1 Safety chain, 1 Operating manual, 1 Warranty certificate

Model MAB 825 KTS features multi-axis positioning, allowing the drill to be adjusted up to 4-3/4" forward/backward and up to 4-3/8" left/right after magnet is adhered to surface. Ideal for job site drilling, boring and slotting applications where dismantling is not feasible.

AutoMAB 350 & AutoMAB 450

AutoMAB 350

Drill up to 1-1/2" dia.
Tap up to 1-3/8" dia.

AutoMAB 450

Drill up to 1-3/4" dia.*

With an optional 1/2" chuck (Part No. IBC 18), the AutoMAB 450 easily converts to a standard drill press for conventional twist drills. An optional 3/4" geared chuck is also available (Part No. IBC 22).

* Drilling capacity up to 2" dia. with TCT Carbide cutters.
Ideal for steel engineering, plant construction and more

**MAB 825 & MAB 845**

**Powerful • Reliable**
- 16 Amp double-insulated motor
- 4-speed oilbath gearbox for applications requiring high power
- Designed for continuous use
- Infinitely variable torque control and full-wave control electronics

**Drill up to 4-1/16" dia. Tap up to 1-1/8" dia.**
- Uses annular cutters up to 4-1/16" dia.
- Twist drilling and reaming capacities up to 1-1/4" dia.
- Tapping capacity up to 1-1/8" dia.
- Integrated cutting oil reservoir
- Automatic internal lubrication
- Automatic feed (model MAB 825 V), ideal for production applications
- Swivel base (model MAB 845)

**Keyless Cutter Mount**
- Quick-change keyless cutter system for 3/4" Weldon shank
- Arbor for 1-1/4" Weldon shank
- Also includes manual arbor for 3/4" Weldon shank (MT3) with set screws

**Integrated Safety**
- Green/Red LED magnetic force indicator for safe operation
- Internal cable routing
- Simple, ergonomic arrangement of controls for one-handed operation
- Emergency-off function

---

**Cutter capacity** 4 1/16" dia.

**See pages 29 and 50 for Tap Holders and Accessories**

---

**Specifications**

**MAB 825**: Standard model with 16 Amp motor

**MAB 825 V**: Includes automatic feed – ideal for production applications

**MAB 845**: Includes 360° movement left and right and 3/4" forward and backward

---

**Motor Power**: 16 Amp / 110 Volt

**Weight**: 55 lbs.

**Hole Capacity**: 4 1/16" dia.

**Twist Drill Capacity**: 1 1/4" dia.

**Tapping Capacity**: 1 1/8" dia.

**Speeds**: 40-110, 65-175, 140-360, 220-600 RPM

**Magnet Base Size**: 8 5/8" L x 4 1/3" W

**Dimensions**: 18 5/8" H x 14 7/16" L x 9 7/16" W

**Magnetic Force (1" plate)**: 6600 lbs.

**Arbor Bore**: 3/4" and 1 1/4", standard

**Spindle**: MT3

**Automatic Lubrication**: Included

**Automatic Feed**: Order MAB 825 V

**Swivel Base**: Order MAB 845

---

**Internal cable routing** protects the motor power cord from external damage

**Equipped with** Electronic Safety Shutoff Sensor (see p. 3)

---

**Model MAB 825**, **825 V** & **845**

- 4 Gears with Variable Speed
- Countersinking
- Reaming
- Twist Drilling

---

**Reversible**

---

**Optional robust transport case** with wheels, carrying handle and sturdy closures. Protect your MAB 825/845 from water and dust with this rugged case.

**Order No.** ZHK 825

---

**Optional accessory for MAB 825 V**

---

**With an optional 3/4" geared chuck (Part No. IBC 21), this model easily converts to a standard drill press for conventional twist drills.**

---

*** Optional accessory for MAB 825 V**

---

**** Not available for MAB 825 V**
### Model MAB 825 & 845 Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MAB 825 &amp; 845 Specifications</th>
<th>Model MAB 825, 825 V &amp; 845</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Power</td>
<td>16 Amp / 110 Volt</td>
<td>With an optional 3/4&quot; geared chuck (Part No. IBC 21), this model easily converts to a standard drill press for conventional twist drills.</td>
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<tr>
<td>Weight</td>
<td>55 lbs.</td>
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<tr>
<td>Hole Capacity</td>
<td>4 1/16&quot; dia.</td>
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<tr>
<td>Twist Drill Capacity</td>
<td>1 1/4&quot; dia.</td>
<td></td>
</tr>
<tr>
<td>Tapping Capacity</td>
<td>1 1/8&quot; dia.</td>
<td></td>
</tr>
<tr>
<td>Speeds</td>
<td>40-110, 65-175, 140-360, 220-600 RPM</td>
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</tr>
<tr>
<td>Magnet Base Size</td>
<td>8 1/4&quot; L x 4 1/2&quot; W</td>
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</tr>
<tr>
<td>Magnetic Force (1&quot; plate)</td>
<td>6600 lbs.</td>
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</tr>
<tr>
<td>Arbor Bore</td>
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</tr>
<tr>
<td>Spindle</td>
<td>MT3</td>
<td></td>
</tr>
<tr>
<td>Automatic Lubrication</td>
<td>Included</td>
<td></td>
</tr>
<tr>
<td>Automatic Feed</td>
<td>Order MAB 825 V</td>
<td></td>
</tr>
<tr>
<td>Swivel Base</td>
<td>Order MAB 845</td>
<td></td>
</tr>
</tbody>
</table>

### Standard Equipment

- 1 Magnetic drilling machine
- 1 Quick-change arbor system KEYLESS Weldon 3/4"
- 1 Manual arbor with set screws, Weldon 3/4", MT3
- 1 Arbor 1 1/4" Weldon, MT3*
- 4 Pilot pins - 1", 2", 3" and 4" depth
- 1 Safety chain
- 1 Hexagon socket screw key SW 6
- 1 Drift key MT3
- 1 Warranty certificate
- 1 Carrying case**

*Optional accessory for MAB 825 V
**Not available for MAB 825 V

---

**Note:**

- **MAB 845** features a swivel base providing 30° movement left and right and 3/4” forward and backward.
- **MAB 825 V** includes automatic feed – ideal for production applications.
- **MAB 825** is the standard model with 16 Amp motor.
- **Model MAB 825 & 845** includes internal cable routing which protects the motor power cord from external damage.
- Equipped with Electronic Safety Shutoff Sensor (see p. 3).

---

**Model MAB 845 Features**

- Rolling Transport Case
  - Optional robust transport case with wheels, carrying handle and sturdy closures. Protect your MAB 825/845 from water and dust with this rugged case.
  - Order No. ZHK 825
PORTABLE MAGNETIC DRILLS

MAB 1300

Large holes – up to 5 1/8" diameter
Tapping up to 1 5/8" diameter

Powerful • Reliable

• 20 Amp double-insulated motor
• 22" high, 112 lbs.
• 4-speed oilbath gearbox for applications requiring high power
• Designed for continuous use
• Infinitely variable torque control and full-wave control electronics

Drill up to 5-1/8" dia.
Tap up to 1-5/8" dia.

• Uses annular cutters
  7/16" to 5-1/8" dia., 1" and 2" depth
  7/16" to 5-1/8" dia., 3" to 8" depth*
• Twist drilling up to 1-3/4" - uses MT4, countersinking up to 3" dia.
• Tapping up to 1-5/8"
• Reaming up to 2"
• Automatic internal lubrication

Integrated Safety

• Green/Red LED magnetic force indicator for safe operation
• Equipped with Electronic Safety Shutoff Sensor (see p. 3)
• Emergency-off function

Ideal for use with TCT Carbide cutters up to 5 1/8" dia. – see pages 42-43.

* 3" depth cutters or longer require purchase of ZIA 432 KN adapter and 1-1/4" Weldon adapter.

Specifications

Motor Power 20 Amp / 110 Volt
Weight 112 lbs.
Hole Capacity 5 1/8" dia.**
Twist Drill Capacity 1 3/4" dia.
Tapping Capacity 1 5/8" dia.
Speeds 30-80, 50-120
130-350, 210-550 RPM
Magnet Base Size 14" L x 4 3/4" W
Dimensions 22" H x 19 1/2" L x 10" W
Magnetic Force (1" plate) 23,600 lbs.
Arbor Bore 1 1/4" (3/4" adapter included)
Spindle MT4
Automatic Lubrication Included

** Maximum hole diameter is with TCT Carbide cutters - see p. 42-43.

Standard Equipment

1 Magnetic drilling machine
1 Carrying case on wheels
1 Arbor adapter to 3/4" Weldon
1 Safety chain
1 Hexagon socket screw key SW6
1 Drift key MT4
1 Operating manual
1 Warranty certificate

SafeMag™
Magnet Force Indicator
ø 5 1/8"
Cutter Capacity
3.35" (12" without retainer)
Stroke (Length)
Variable-speed Control
Electronics
Reversible (CW/CCW)

CoolMag™
Overheat Protection

Stop

Mounting

Twist Drilling
Tapping
Reaming
Countersinking
Optional Special-Purpose Cutting Tool

ZHK 1300 wheeled carrying case included with MAB 1300

See pages 28-29 for tapping accessories and wheeled carrying case.
PORTABLE MAGNETIC DRILLS

**Model MAB 1300 Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Power</td>
<td>20 Amp / 110 Volt</td>
</tr>
<tr>
<td>Weight</td>
<td>112 lbs.</td>
</tr>
<tr>
<td>Hole Capacity</td>
<td>5 1/8&quot; dia.**</td>
</tr>
<tr>
<td>Twist Drill Capacity</td>
<td>1 3/4&quot; dia.</td>
</tr>
<tr>
<td>Tapping Capacity</td>
<td>1 5/8&quot; dia.</td>
</tr>
<tr>
<td>Speeds</td>
<td>30-80, 50-120, 130-350, 210-550 RPM</td>
</tr>
<tr>
<td>Magnet Base Size</td>
<td>14&quot; L x 4 1/2&quot; W</td>
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<tr>
<td>Dimensions</td>
<td>22&quot; H x 19 1/2&quot; L x 10&quot; W</td>
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<tr>
<td>Magnetic Force (1&quot; plate)</td>
<td>23,600 lbs.</td>
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<tr>
<td>Arbor Bore</td>
<td>1 1/4&quot; (3/4&quot; adapter included)</td>
</tr>
<tr>
<td>Spindle</td>
<td>MT4</td>
</tr>
<tr>
<td>Automatic Lubrication</td>
<td>Included</td>
</tr>
<tr>
<td><strong>Maximum hole diameter is with TCT Carbide cutters - see p. 42-43.</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Standard Equipment**

- 1 Magnetic drilling machine
- 1 Carrying case on wheels
- 1 Arbor adapter to 3/4" Weldon
- 1 Safety chain
- 1 Hexagon socket screw key SW6
- 1 Drift key MT4
- 1 Operating manual
- 1 Warranty certificate

**Cutter capacity 5 1/8" dia.**

See pages 28-29 for tapping accessories and wheeled carrying case.
PORTABLE MAGNETIC DRILLS

MAB 1300 V

Strongest magnetic drill with adjustable automatic feed and reverse

- Ideal for production applications
- Power feed controls drill pressure to maintain optimal RPM and feed rate

Drill up to 5-1/8" dia.
Tap up to 1-5/8" dia.
Ream up to 2" dia.

Automatic feed motor

Rolling Transport Case for MAB 1300

Order No. ZHK 1300

Robust transport case with wheels, carrying handle and sturdy closures. Protect your investment from water and dust with this rugged case. Four large ABS locks and an interior configuration customized for machine to secure drill and accessories during transit. Lightweight, heavy-duty plastic construction and robust ABS wheels.

Drill not included with ZHK 1300. Purchase of MAB 1300 drill includes ZHK 1300 case.
See page 25 for MAB 825/845 case.

Cutters with 3/4" or 1-1/4" Weldon shank

---

Tapping Accessories for MAB 1300, MAB 825, MAB 845 and CSU 100/3RL

Part No. GSW 444

Quick-change tapping chuck with MT4 connection (for MAB 1300). Collets not included.

GSW 444 and GSS-4xx collet set shown below.

GSS-420 collet for 20mm shanks
GSS-422 collet for 22mm shanks
GSS-427 collet for 27mm shanks
GSS-433 collet for 33mm shanks
GSS-442 collet for 42mm shanks

---

Bushing – Reduces 1-1/4" Weldon shank to 3/4" Weldon shank

Order No. ZAP 200

Cut holes up to 5-1/8" dia., 12" deep!

Unibroach® Large-Hole Cutting

Large HSS, TCT or M42 Cutters

Available in TCT Carbide, HSS, Cobalt and ARMOR-PLATED Unibroach™

Drill perfect holes up to 51/8" diameter without runout

- Standard with 3/4" or 1-1/4" 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

* Pilot pins not supplied with 6" or larger depth cutters. Pilot pins can be purchased separately.
PORTABLE MAGNETIC DRILLS

Cutter capacity 5 1/8" dia.

Made in Germany

Powered by MAB 1300 V

Order Morse Tap Shank Tap Shank
Number Taper Size Diameter Square

70308 3 5/8" .480 .366
70301 3 3/4" .590 .442
70302 3 7/8" .697 .523
70303 3 1" .800 .600
70304 3 1-1/8" .896 .672
70403 4 1 1/4" .896 .672
70405 4 1-1/4" 1.021 .766
70406 4 1-3/8" 1.108 .831
70407 4 1-1/2" 1.233 .925
70408 4 1-5/8" 1.305 .979

• Positive, accurate driving of larger-sized taps
• No slippage or tap damage
• Tap shank square engages with square drive socket
• 3 set screws secure tap in holder

Tap Collets and Reducing Adapters

Tap Collets with 3/4" or 1-1/4" Weldon shank

Order No. Thread
9/16 TCM 1/4
5/16 TCM 5/16
3/8 TCM 5/8
7/16 TCM 7/16
1/2 TCM 1/2

Bushing – Reduces 1-1/4" Weldon shank to 3/4" Weldon shank

Order No. ZAP 200

Reducing Sleeve DIN 2185

Order No. ZRH 430 for MT 4:3
(adapts MT4 to MT3)

Unibroach® Large-Hole Cutting

Cut holes up to 5-1/8" dia., 12" deep!

Available in TCT Carbide, HSS, Cobalt and ARMOR-PLATED Unibroach™

Drill perfect holes up to 5 1/8" diameter without runout
• Standard with 3/4" or 1-1/4" 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

Large HSS, TCT or M42 Cutters

* Pilot pins not supplied with 6" or larger depth cutters. Pilot pins can be purchased separately.
CSU 32RL

Best power-to-weight performance in the industry

Powerful • Reliable

• Strong 8.2 Amp motor
• Compact, lightweight and portable – 14-1/4” high, 24 lbs.
• Designed for continuous use
• Variable speed

Drill up to 1-1/4" dia.

• Uses annular cutters up to 1-1/4" dia.; 5-3/4" stroke
• Twist drilling capacity up to 1/2" dia.
• Tapping capacity up to 3/4" dia.*
• Automatic lubrication system

Integrated Safety

• SafeMag™ Green/Red LED magnetic force indicator for safe operation
• Equipped with CoolMag™ overheat protection
• Emergency-off function

With included 1/2" chuck (Part no. IBC 17), this model easily converts to standard drill presses with a 6 1/2" stroke for conventional twist drills.

CSU 32RL Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Power</td>
<td>8.2 Amp / 110 Volt</td>
</tr>
<tr>
<td>Weight</td>
<td>24 lbs.</td>
</tr>
<tr>
<td>Hole Capacity</td>
<td>1 1/4&quot; dia.</td>
</tr>
<tr>
<td>Twist Drill Capacity</td>
<td>1/2&quot; dia.</td>
</tr>
<tr>
<td>Tapping Capacity</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>Speed</td>
<td>100-450 RPM</td>
</tr>
<tr>
<td>Magnet Base Size</td>
<td>6 4/5&quot; L x 3 1/4&quot; W</td>
</tr>
<tr>
<td>Dimensions</td>
<td>14 1/4&quot; H x 9 1/2&quot; L x 4 7/8&quot; W</td>
</tr>
<tr>
<td>Magnetic Force (1&quot; plate)</td>
<td>3080 lbs.</td>
</tr>
<tr>
<td>Arbor Bore</td>
<td>7/8&quot; Weldon Shank</td>
</tr>
<tr>
<td>Spindle</td>
<td>1/2&quot;-20 UNF Thread</td>
</tr>
<tr>
<td>Automatic Lubrication</td>
<td>Included</td>
</tr>
</tbody>
</table>

Model CSU 32RL has a variable-speed (100-450 RPM), reversible motor for tapping up to 3/4”

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 and machine

ZPA 401 – Power Assist for CSU 32 and CSU 50 series

Standard Equipment includes:

• auto lubrication, auto chuck cutter holder, 1/2" geared chuck, safety chain, carabin hook, allen keys, pilot pin and carrying case.

Tap collet set included with Model CSU 32RL

Tap collet set included with Model CSU 32RL
CSU 50AC & CSU 50RL

Lightweight, two-speed, high-performance drills

Powerful • Reliable
• Strong 10.5 Amp motor
• Compact, lightweight and portable – 16-1/2” high, 29 lbs.
• 2-gear variable speed gearbox
• Designed for continuous use

Drill up to 2” dia.
• Uses annular cutters up to 2” dia.; 5-1/4” stroke
• Twist drilling capacity up to 7/8” dia.
• Tapping capacity up to 15/16” dia.*
• Automatic lubrication system

Keyless Cutter Mount
• Easy “twist and lock” keyless arbor
• Also includes manual arbor for 3/4” Weldon shank (MT2) with set screws

Integrated Safety
• SafeMag™ Green/Red LED magnetic force indicator for safe operation
• Equipped with CoolMag™ overheat protection
• Emergency-off function

CSU 50AC Specifications
Motor Power 10.5 Amp / 110 Volt
Weight 29 lbs.
Hole Capacity 2” dia.
Twist Drill Capacity 7/8” dia.
Tapping Capacity 15/16” (CSU 50RL only)
Speeds 1: 250 RPM, 2: 450 RPM
Magnet Base Size 61/2” L x 31/2” W
Dimensions 161/2” H x 9” L x 63/8” W
Magnetic Force (1” plate) 3750 lbs.
Arbor Bore 3/4” Weldon Shank
Spindle MT2
Automatic Lubrication Included
Reversible Motor Order CSU 50RL
Power Assist Order Accessory ZPA 401

* Model CSU 50RL for tapping up to 15/16” dia.

CSU 50RL Specifications
Motor Power 10.5 Amp / 110 Volt
Weight 24 lbs.
Hole Capacity 2” dia.
Twist Drill Capacity 7/8” dia.
Tapping Capacity 15/16” (CSU 50RL only)
Speeds 1: 250 RPM, 2: 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” Weldon Shank
Spindle 1/2”-20 UNF Thread
Automatic Lubrication Included
Reversible Motor Order CSU 50RL
Power Assist Order Accessory ZPA 401

Tap collet set included with Model CSU 50RL

CSU 32RL Specifications
Motor Power 8.2 Amp / 110 Volt
Weight 29 lbs.
Hole Capacity 1 1/4” dia.
Twist Drill Capacity 1/2” dia.
Tapping Capacity 3/4”
Speeds 100-450 RPM
Magnet Base Size 6 1/2” L x 3 1/4” W
Dimensions 16 1/2” H x 9” L x 6 3/8” W
Magnetic Force (1” plate) 3750 lbs.
Arbor Bore 3/4” Weldon Shank
Spindle MT2
Automatic Lubrication Included
Reversible Motor Optional quick-change tapping chuck with MT2 connection (Model GSW-222) has flexible collet to fit taps 5/16” to 5/8”

Keyless Cutter Mount
• Easy “twist and lock” keyless arbor
• Also includes manual arbor for 3/4” Weldon shank (MT2) with set screws

Standard Equipment includes auto lubrication, auto chuck cutter holder, manual chuck with set screws, geared chuck, safety chain, carabin hook, allen keys, pilot pins and carrying case. (CSU 50RL shown)
**Powerful • Reliable**

- 16 Amp double-insulated motor
- 19-1/2" high, 57 lbs.
- 2-gear variable speed gearbox
- Designed for continuous use

**Drill up to 4" dia.**

- Uses annular cutters up to 4" dia.; 10" stroke
- Twist drilling capacity up to 1-1/4" dia.
- Tapping capacity up to 1-1/8" dia.
- Automatic lubrication system

**Keyless Cutter Mount**

- Quick-change keyless cutter system for 3/4" Weldon Shank
- Optional 1-1/4" arbor

**Integrated Safety**

- SafeMag™ Green/Red LED magnetic force indicator for safe operation
- Equipped with CoolMag™ overheat protection
- Emergency-off function

**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 and machine

**CSU 100/3RL Specifications**

- Motor Power: 16 Amp / 110 Volt*
- Weight: 57 lbs.
- Hole Capacity: 4" dia.
- Twist Drill Capacity: 1 1/4" dia.
- Tapping Capacity: 1 1/8" dia.
- Speeds (variable): 40-140 RPM, 120-480 RPM
- Magnet Base Size: 9" L x 4" W
- Dimensions: 19-1/2" H x 13-1/2" L x 7-1/2" W
- Magnetic Force (1" plate): 6600 lbs.
- Arbor Bore: 3/4" (1-1/4" also available)
- Spindle: MT3
- Automatic Lubrication: Included
- Power Assist: Order Accessory ZPA 402

See pages 29 and 50 for Tap Holders and Accessories

**See pages 36-46**

**Accessories: pages 47-53**

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Annotation:
- **CSU 100/3RL**
- Powerful reversible motor for drilling and tapping
- 2 Gears with Variable Speed
- **Cutter capacity 4" dia.**
- **Annular Cutters: pages 36-46**
- **Accessories: pages 47-53**
- 1-800-700-5919 • Visit our Web site at www.csunitec.com
Pneumatic power for hazardous environments

ATEX Classified

Safe • Reliable

• Inherently safer than electromagnetic drills in hazardous atmospheres and wet environments where electricity requires "hot work permits"
• ATEX classified
• 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
• 1600 lbs. magnet holding strength

Drill up to 2-1/16" dia.

• Uses annular cutters up to 2-1/16" dia.
• Twist drilling capacity up to 5/8" dia.
• Powerful 1.6 HP drill motor
• Long drill stroke – up to 10 1/4"
• Pressurized coolant system lubricates cutter and reduces risk of sparking

Model Comparison

<table>
<thead>
<tr>
<th>Model</th>
<th>Drill Stroke (length)</th>
<th>Speed Range (RPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB-4300</td>
<td>4 7/8&quot;</td>
<td>400</td>
</tr>
<tr>
<td>AB-4300-2R</td>
<td>10 1/4&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Model AB-4300 / AB-4300-2R Specifications

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

More information on Cutters: pages 36-46 and Accessories: pages 47-53
Model 2 1345 0010 – Hydraulic

Ideal for use in Ex Zones and subsea applications

**Safe • Reliable**
- Hydraulic motor safe for underwater use
- Ideal for industrial, construction, marine and mining applications
- ATEX Classified EX II 2Gc IIB T5
- Drill structural steel and other metals
- Manually operated permanent magnet with lever control has holding strength of 1874 lbs.

**Drill up to 4” dia.**
- Uses annular cutters up to 4” dia.
- Twist drilling capacity up to 1-1/4” dia.
- Tapping capacity up to 1” dia.

### Model 2 1345 0010 Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Power (Hydraulic)</td>
<td>3.4 HP</td>
</tr>
<tr>
<td>Weight</td>
<td>50 lbs.</td>
</tr>
<tr>
<td>Hole Capacity</td>
<td>4” dia.</td>
</tr>
<tr>
<td>Twist Drill Capacity</td>
<td>1 1/4” dia.</td>
</tr>
<tr>
<td>No Load Speed, Variable</td>
<td>40-250 RPM</td>
</tr>
<tr>
<td>Hydraulic Supply</td>
<td>Flow 5.3 GPM @ 2000 PSI</td>
</tr>
<tr>
<td>Magnet Base Size</td>
<td>11 1/2” x 4’” L x 7 1/4” W</td>
</tr>
<tr>
<td>Dimensions</td>
<td>21 1/2” H x 15 1/4” L x 7 1/4” W</td>
</tr>
<tr>
<td>Magnetic Force (3/8” plate)</td>
<td>1874 lbs.</td>
</tr>
<tr>
<td>Spindle</td>
<td>MT3</td>
</tr>
</tbody>
</table>

### Pipe Clamp – Model 2 1330 8500

Optional clamp allows right angle drilling of steel, cast iron, cement and plastic pipes up to 19-1/2” dia.

Extension chains available for pipes up to 43-1/4” dia.
- P/N 5 1201 9030* – For pipes up to 31-1/2” (800mm)
- P/N 5 1201 9020* – For pipes up to 43-1/4” (1100mm)
* 2 pieces needed for one clamp

**Standard Equipment** includes:
- Hydraulic hose set, coolant bottle, arbor adapter to 3/4” Weldon, arbor adapter to 1-1/4” Weldon, safety chain, drift key, allen keys and carrying case.
HB 4400 for Subsea Drilling

Hydraulic for marine and construction – works underwater

Safe • Reliable

- Ideal for industrial, construction, marine and mining applications
- Drill structural steel and other metals
- Hydraulic motor safe for underwater use
- Manually operated permanent magnet with ratchet control has holding strength of 1300 lbs.

Drill up to 2-1/16" dia.

- Uses annular cutters up to 2-1/16" dia.
- Twist drilling capacity up to 1/2" dia.
- Automatic lubrication

Model HB 4400 Specifications

<table>
<thead>
<tr>
<th>Motor Power (Hydraulic)</th>
<th>1.5 HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>48½ lbs.</td>
</tr>
<tr>
<td>Hole Capacity</td>
<td>2½&quot; dia.</td>
</tr>
<tr>
<td>Twist Drill Capacity</td>
<td>1½&quot; dia.</td>
</tr>
<tr>
<td>No Load Speed, Variable</td>
<td>0-630 RPM</td>
</tr>
<tr>
<td>Hydraulic Supply</td>
<td>Flow 6.5 GPM @ 2000 PSI</td>
</tr>
<tr>
<td>Magnet Base Size</td>
<td>7½&quot; L x 3&quot; W</td>
</tr>
<tr>
<td>Dimensions</td>
<td>18½&quot; H x 12½&quot; L x 7½&quot; W</td>
</tr>
<tr>
<td>Magnetic Force (1&quot; plate)</td>
<td>1300 lbs.</td>
</tr>
<tr>
<td>Automatic Lubrication</td>
<td>Included</td>
</tr>
</tbody>
</table>

Hoses not included

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

Model 2 1345 0010 Specifications

<table>
<thead>
<tr>
<th>Motor Power (Hydraulic)</th>
<th>3.4 HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>50 lbs.</td>
</tr>
<tr>
<td>Hole Capacity</td>
<td>4&quot; dia.</td>
</tr>
<tr>
<td>Twist Drill Capacity</td>
<td>1½&quot; dia.</td>
</tr>
<tr>
<td>No Load Speed, Variable</td>
<td>40-250 RPM</td>
</tr>
<tr>
<td>Hydraulic Supply</td>
<td>Flow 5.3 GPM @ 2000 PSI</td>
</tr>
<tr>
<td>Magnet Base Size</td>
<td>11½&quot; L x 4&quot; W</td>
</tr>
<tr>
<td>Dimensions</td>
<td>21½&quot; H x 157/16&quot; L x 7¾&quot; W</td>
</tr>
<tr>
<td>Magnetic Force (3/8&quot; plate)</td>
<td>1874 lbs.</td>
</tr>
</tbody>
</table>

ATEX Classified EX II 2Gc IIB T5

Drill up to 4" dia.

- Uses annular cutters up to 4" dia.
- Twist drilling capacity up to 1½" dia.
- Tapping capacity up to 1" dia.

Optional clamp allows right angle drilling of steel, cast iron, cement and plastic pipes up to 19½" dia.

Extension chains available for pipes up to 43½" dia.

P/N 5 1201 9030* – For pipes up to 31½" (800mm)
P/N 5 1201 9020* – For pipes up to 43½" (1100mm)

* 2 pieces needed for one clamp

Ideal for use in Ex Zones and subsea applications

Standard Equipment includes hydraulic hose set, coolant bottle, arbor adapter to 3/4" Weldon, arbor adapter to 1-1/4" Weldon, safety chain, drift key, allen keys and carrying case.

Sunitec

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PORTABLE MAGNETIC DRILLS

Annular Cutters: pages 36-46 • Accessories: pages 47-53
**Annular Cutters**

Achieve burr-free finished holes, without predrilling or stepdrilling

- **6-Series HSS Unibroach™ Annular Cutters**
  - Fully ground HSS annular cutters
  - Cutting depth: 1"  2" 3" 4" 6" 8"

- **8-Series ARMOR-PLATED Unibroach™ Annular Cutters**
  - Fully ground HSS annular cutters with TiAlN hard coating
  - Cutting depth: 1"  2" 3"
  - Drilling ø:  7/16" - 5-1/8" 7/16" - 5-1/8" 3/4" - 5-1/8"

- **9-Series Unibroach™ TCT Hornet Annular Cutters**
  - Sintered carbide annular cutters with Tungsten Carbide tips
  - Cutting depth: 1"*  2-3/8" 3-3/8" 4" 6" 8"
  - *1-3/8" depth for diameters larger than 1-1/2"

---

**Benefits of CS Unitec’s Cutter Design:**
- Double-action tooth geometry cuts, splits and ejects chips more efficiently, increasing cutting speed
- Reducing tooth load
- Minimizing tool wear
- Lengthening cutter life

- Engineered with a tapered inner wall for smooth, easy slug ejection.
- Center hole for pilot pin accurately aligns the cutter, allows for internal lubrication and removes the slug.

---

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

---

**Hardened, high-speed tool steel**
**Weldon Shank**

---

**Precision-ground flutes** provide efficient chip clearance, increasing drilling productivity and decreasing cutter breakage.

---

For Cobalt Cutters, Rail Cutters and special sizes, see pages 45 and 29. For One-Touch TCT Cutters, see page 44.

---

**Pilot Pins: How they work…**
1. Centering
2. Oiling
3. Ejecting

- During drilling, the pilot pin retracts and allows internal coolant to reach the cutting teeth.
- When hole is complete, the slug is automatically ejected from the cutter.

---

**Hardened, high-speed tool steel Weldon Shank**
**Precision-ground flutes** provide efficient chip clearance, increasing drilling productivity and decreasing cutter breakage.

---

Achieve burr-free finished holes, without predrilling or stepdrilling.

---

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

---

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

---

**Perfect drilling to close tolerances without runout.**
The result: a burr-free finished hole.
Pilot Pins: How they work...

1: Centering
The pilot pin accurately centers cutter over area to be drilled.

2: Oiling
During drilling, the pilot pin retracts and allows internal coolant to reach the cutting teeth.

3: Ejecting
When hole is complete, the slug is automatically ejected from the cutter.

6-Series HSS Unibroach™ Annular Cutters – Pages 38-39
Fully ground HSS annular cutters
Cutting depth: 1" 2" 3" 4" 6" 8"

8-Series ARMOR-PLATED Unibroach™ Annular Cutters – Pages 40-41
Fully ground HSS annular cutters with TiAlN hard coating
Cutting depth: 1" 2" 3"
Drilling ø: 7/16" - 5-1/8" 7/16" - 5-1/8" 3/4" - 5-1/8"

9-Series Unibroach™ TCT Hornet Annular Cutters – Pages 42-43
Sintered carbide annular cutters with Tungsten Carbide tips
Cutting depth: 1"* 2-3/8" 3-3/8" 4" 6" 8"
* 1-3/8" depth for diameters larger than 1-1/2"

For Cobalt Cutters, Rail Cutters and special sizes, see pages 45 and 29. For One-Touch TCT Cutters, see page 44.

Benefits of CS Unitec’s Cutter Design:
- Double-action tooth geometry cuts, splits and ejects chips more efficiently, increasing cutting speed
- Reducing tooth load
- Minimizing tool wear
- Lengthening cutter life

Engineered with a tapered inner wall for smooth, easy slug ejection.
Center hole for pilot pin accurately aligns the cutter, allows for internal lubrication and removes the slug.

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

Hardened, high-speed tool steel Weldon Shank

Precision-ground flutes provide efficient chip clearance, increasing drilling productivity and decreasing cutter breakage.

Achieve burr-free finished holes, without predrilling or stepdrilling.
**Unibroach® Annular Cutters**

High-speed steel for drilling 3x faster than twist drills

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:

<table>
<thead>
<tr>
<th>Diameter</th>
<th>1&quot;</th>
<th>2&quot;</th>
<th>3&quot;</th>
<th>4&quot;</th>
<th>6&quot;</th>
<th>8&quot;</th>
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<td>0 1/2&quot;</td>
<td>0 3/4&quot;</td>
<td>0 1/2&quot;</td>
</tr>
</tbody>
</table>

Special sizes available; metric cutters available on request.

**Every annular cutter includes a corresponding pilot pin.**

- CNC precision ground for fast penetration, accuracy and long life
- Flutes run the length of the cutter for efficient chip clearance, increased drilling productivity and decreased cutter breakage
- 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

HSS Cutters must be used with lubricant. See page 48 for CS Unitec lubricants and cutting oil.

---

**6-Series HSS**

<table>
<thead>
<tr>
<th>1&quot; Depth</th>
<th>2&quot; Depth</th>
<th>3&quot; Depth</th>
</tr>
</thead>
<tbody>
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<td>Order No.</td>
<td>Diameter</td>
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<td>6-1-114</td>
<td>0 1/16&quot;</td>
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<td>0 1/8&quot;</td>
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<td>0 1/4&quot;</td>
<td>6-1-118</td>
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</tr>
<tr>
<td>0 3/8&quot;</td>
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<td>4 1/8&quot;</td>
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**Option for Cutters 3" and 4" Depth**

- Option for Cutters 3" and 4" Depth
- Option for Cutters 3" and 4" Depth

---

**Annular Cutters**

- 1-800-700-5919
- Visit our Web site at www.csunitec.com

---

**Shank Sizes**

- 3/4" for cutters up to 3" dia.
- 1-1/4" for cutters 3-1/16" to 5-1/8" dia.

**Pilot Pin included with every annular cutter up to 4" dia.**

---

**Pilot Pins for 6-Series**

- For 6" Shanks
- For 1-1/4" Shanks

---

**Opt for Cutters 3" and 4" Depth**

- We also stock 8" depth HSS cutters and Metric HSS cutters. Larger diameters and special sizes available upon request. Please call us for pricing and delivery.

---

See pages 47-53 for Drill Accessories.
Unibroach® Annular Cutters

High-speed steel for drilling 3x faster than twist drills

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:

<table>
<thead>
<tr>
<th>Diameter</th>
<th>1&quot;</th>
<th>2&quot;</th>
<th>3&quot;</th>
<th>4&quot;</th>
<th>5&quot;</th>
<th>6&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/16&quot;</td>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
<td>1&quot;</td>
<td>1 1/8&quot;</td>
<td>1 1/4&quot;</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>5/32&quot;</td>
<td>3/16&quot;</td>
<td>7/32&quot;</td>
<td>1/8&quot;</td>
<td>5/32&quot;</td>
<td>7/32&quot;</td>
</tr>
</tbody>
</table>

Special sizes available; metric cutters available on request. Every annular cutter includes a corresponding pilot pin.*

- CNC precision ground for fast penetration, accuracy and long life
- Flutes run the length of the cutter for efficient chip clearance, increased drilling productivity and decreased cutter breakage
- 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

HSS Cutters must be used with lubricant. See page 48 for CS Unitec lubricants and cutting oil.

See page 47 for HSS Annular Cutter Starter Kit.

ANNULAR CUTTERS

6-Series HSS

<table>
<thead>
<tr>
<th>1&quot; Depth</th>
<th>Order No.</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-1-116</td>
<td>7/16&quot;</td>
<td>5/32&quot;</td>
</tr>
<tr>
<td>6-1-115</td>
<td>2/5&quot;</td>
<td>3/16&quot;</td>
</tr>
<tr>
<td>6-1-114</td>
<td>2 1/16&quot;</td>
<td>7/32&quot;</td>
</tr>
<tr>
<td>6-1-112</td>
<td>3&quot;</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>6-1-108</td>
<td>3&quot;</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>6-1-102</td>
<td>3 1/2&quot;</td>
<td>7/32&quot;</td>
</tr>
<tr>
<td>6-1-100</td>
<td>3 1/16&quot;</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>6-1-99</td>
<td>3 1/16&quot;</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>6-1-96</td>
<td>3 1/16&quot;</td>
<td>3/32&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2&quot; Depth</th>
<th>Order No.</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-2-114</td>
<td>2 1/16&quot;</td>
<td>7/32&quot;</td>
</tr>
<tr>
<td>6-2-116</td>
<td>2 1/16&quot;</td>
<td>7/32&quot;</td>
</tr>
<tr>
<td>6-2-118</td>
<td>3 1/16&quot;</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>6-2-119</td>
<td>3 1/16&quot;</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>6-2-122</td>
<td>3 1/16&quot;</td>
<td>3/32&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3&quot; Depth</th>
<th>Order No.</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Shank sizes:
- 3/4" for cutters up to 3" dia.
- 1-1/4" for cutters 3-1/16" to 5-1/8" dia.

Pilot pin included with every annular cutter up to 4" dia.

Pilot Pins for 6-Series

- For 3/4" Shank
- For 1-1/4" Shank

Option for Cutters 3" and 4" Depth

- 2-piece pin for 3" and 4" depth cutters with pin pilot hole.
- 3-piece pin for 3" and 4" depth cutters with pin pilot hole.

* We also stock 8" depth HSS cutters and Metric HSS cutters. Larger diameters and special sizes available upon request. Please call us for pricing and delivery.

Unibroach® Stack Cutters are available in diameters from 1/4" 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.

See pages 47-53 for Drill Accessories.
Unibroach® Annular Cutters

**TiAIN Carbide coating for up to 4x tool life, less friction and more power**

**Less Friction = Less Heat = More Holes!**

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.

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

<table>
<thead>
<tr>
<th>Drill Depth</th>
<th>1&quot;</th>
<th>2&quot;</th>
<th>3&quot;</th>
</tr>
</thead>
</table>
| Diameter    | ø 7/16" to ø 5/8" | ø 7/16" to ø 5/8" | ø 7/16" to ø 5/8"

Special sizes available; metric cutters available on request.

- 3 to 4 times longer tool life with TiAIN Carbide 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 TiAIN Carbide coating is worn, lubricate with cutting oil

Every annular cutter includes a corresponding pilot pin.

<table>
<thead>
<tr>
<th>Order No. Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum  200 fl/min.</td>
</tr>
<tr>
<td>Mild Steel (Carbon)  80 fl/min.</td>
</tr>
<tr>
<td>High Tensile Steel (Stainless)  30 fl/min.</td>
</tr>
</tbody>
</table>

See page 47 for ARMOR-PLATED Unibroach™ TiAIN Carbide-Coated Annular Cutter Starter Kit.

**ARMOR-PLATED cutters are available at**

**TiAIN Carbide coating for up to 4x tool life, less friction and more power**

**Less Friction = Less Heat = More Holes!**
8-Series ARMOR-PLATED TiAlN

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

TiAlN Carbide coating for up to 4x tool life, less friction and more power
Less Friction = Less Heat = More Holes!

Unibroach® Recommended RPMs

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<th>Diameter</th>
<th>RPM</th>
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<td>1000</td>
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<td>3/16&quot;</td>
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<tr>
<td>1/8&quot;</td>
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<td>5/32&quot;</td>
<td>200</td>
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<td>3/32&quot;</td>
<td>300</td>
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<td>1/32&quot;</td>
<td>350</td>
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<td>5/512&quot;</td>
<td>900</td>
</tr>
<tr>
<td>3/512&quot;</td>
<td>950</td>
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</tbody>
</table>

Recommended Annular Cutter

- 1-800-700-5919
- Visit our Web site at www.csunitec.com

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

- ø 5 1/8" (Stainless Steel - High Tensile)
- ø 5 1/8" (Carbon - Mild Steel - 80 ft./min.)
- ø 5 1/8" (Aluminum - 200 ft./min.)

ARMOR-PLATED Unibroach™ Carbide-Coated Cutters:

- Increase tool life and achieve faster feed rates
- Take full advantage of the TiAlN Carbide Coating, at 90Rc hardness, are the state-of-the-art in hole cutting technology. They multiply service life, reduce cost and increase productivity.
- Recommended RPMs
- Pilot pin included with every annular cutter

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.

ANNULAR CUTTERS

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

8-1-166 T
8-1-164 T
8-1-162 T
8-1-158 T
8-1-156 T
8-1-154 T
8-1-152 T
8-1-150 T
8-1-146 T
8-1-144 T
8-1-142 T
8-1-140 T
8-1-138 T
8-1-136 T
8-1-134 T
8-1-132 T
8-1-130 T
8-1-128 T
8-1-126 T
8-1-124 T
8-1-122 T
8-1-120 T
8-1-118 T
8-1-116 T
8-1-114 T
8-1-112 T
8-1-110 T
8-1-108 T
8-1-106 T
8-1-104 T
8-1-102 T
8-1-100 T
8-1-098 T
8-1-096 T
8-1-094 T
8-1-092 T
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8-1-000 T

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<tr>
<td>1/32&quot;</td>
<td>1/32&quot;</td>
</tr>
</tbody>
</table>

ARMOR-PLATED Unibroach™ Carbide-Coated Cutters:

- Drill with less friction and more power
- Withstand higher working temperatures – up to 1480°F (800°C)
- Dry drill or lubricate with water to simplify working conditions and cleanup**
- Prevent cold weld – metal chips do not adhere to the cutter
- Are ideal for structural steel and hard metal

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

See pages 47-53 for Drill Accessories.
Unibroach® Annular Cutters

TCT Carbide Hornet – tungsten carbide-tipped for high-speed cutting

- Use high-speed RPM for best results and faster holecaking
- Ideal for drilling steel with rust or paint and boring applications
- Will outlast High-speed Steel cutters
- Leaves a burr-free finished hole
- Available in all sizes (fractional and metric)
- 2 flats
- 3/4" or 1 1/4" shank

ARMOR PLATING AVAILABLE UON REQUEST.

TCT Hornet cutters are available in the following sizes:

<table>
<thead>
<tr>
<th>Drill Depth</th>
<th>1&quot;</th>
<th>1-3/8&quot;</th>
<th>2-3/8&quot;</th>
<th>3-3/8&quot;</th>
<th>4&quot;</th>
<th>6&quot;</th>
<th>8&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>ø 1&quot; to ø 1 1/2&quot;</td>
<td>ø 1 5/8&quot; to ø 2&quot;</td>
<td>ø 2 3/8&quot; to ø 2 7/8&quot;</td>
<td>ø 2 7/16&quot; to ø 3 1/8&quot;</td>
<td>ø 3 1/16&quot; to ø 3 3/8&quot;</td>
<td>ø 3 7/8&quot; to ø 4 1/4&quot;</td>
<td>ø 4 1/2&quot; to ø 5 1/4&quot;</td>
</tr>
</tbody>
</table>

Special sizes available; metric cutters available on request.
Every annular cutter includes a corresponding pilot pin.*

9-Series Annular Cutter
Recommended RPM Rates

<table>
<thead>
<tr>
<th>Cutter Size</th>
<th>Stainless &amp; Alloy Steel RPM</th>
<th>Mild Steel RPM</th>
<th>Iron Plate RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>RPM</td>
<td>RPM</td>
<td>RPM</td>
</tr>
<tr>
<td>1/4&quot; - 7/16&quot;</td>
<td>500 - 800</td>
<td>600 - 1000</td>
<td>800 - 1200</td>
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<tr>
<td>1/32&quot; - 3/16&quot;</td>
<td>400 - 640</td>
<td>480 - 800</td>
<td>640 - 960</td>
</tr>
<tr>
<td>1/16&quot; - 5/32&quot;</td>
<td>330 - 530</td>
<td>400 - 660</td>
<td>530 - 800</td>
</tr>
<tr>
<td>1/8&quot; - 7/64&quot;</td>
<td>270 - 420</td>
<td>320 - 530</td>
<td>420 - 640</td>
</tr>
<tr>
<td>1/16&quot; - 1/32&quot;</td>
<td>230 - 370</td>
<td>270 - 460</td>
<td>360 - 550</td>
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<td>1/8&quot; - 1/16&quot;</td>
<td>200 - 320</td>
<td>240 - 400</td>
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<td>180 - 280</td>
<td>210 - 350</td>
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<td>160 - 260</td>
<td>190 - 320</td>
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<td>135 - 210</td>
<td>160 - 270</td>
<td>200 - 320</td>
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<td>1/8&quot; - 5/64&quot;</td>
<td>120 - 200</td>
<td>150 - 250</td>
<td>200 - 300</td>
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<tr>
<td>1/4&quot; - 1/16&quot;</td>
<td>115 - 180</td>
<td>140 - 230</td>
<td>180 - 270</td>
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<td>110 - 170</td>
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<td>100 - 160</td>
<td>120 - 200</td>
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<td>1/8&quot; - 1/32&quot;</td>
<td>70 - 120</td>
<td>90 - 145</td>
<td>120 - 170</td>
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<tr>
<td>1/4&quot; - 3/64&quot;</td>
<td>70 - 110</td>
<td>80 - 135</td>
<td>110 - 160</td>
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<tr>
<td>3/32&quot; - 1/16&quot;</td>
<td>65 - 100</td>
<td>75 - 125</td>
<td>100 - 150</td>
</tr>
</tbody>
</table>

ANNULAR CUTTERS

* Pilot pins not supplied with 6" and 8" drill depth cutters. Pilot pins can be purchased separately.

ORDER NO. DESCRIPTION

For 3/4" Shanks

ANNULAR CUTTERS

1-800-700-5919
Visit our Web site at www.csunitec.com
9-Series **TCT Carbide Hornet**

- **TCT Carbide Hornet** – tungsten carbide-tipped for high-speed cutting
- Available in all sizes (fractional and metric)
- Will outlast High-speed Steel cutters
- Ideal for drilling steel with rust or paint
- Use high-speed RPM for best results

Every annular cutter includes a corresponding pilot pin.*

Special sizes available; metric cutters available on request.

**TCT Hornet cutters** are available in the following sizes:

<table>
<thead>
<tr>
<th>Cutter Size</th>
<th>Recommended RPM Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 1 1/2&quot; - 2 1/8&quot;</td>
<td>95 - 160, 110 - 180, 115 - 190, 120 - 200</td>
</tr>
<tr>
<td>Ø 2 2/3&quot; - 2 15/16&quot;</td>
<td>120 - 200, 135 - 210, 140 - 210, 150 - 250</td>
</tr>
<tr>
<td>Ø 2 1/8&quot; - 2 3/8&quot;</td>
<td>120 - 200, 135 - 210, 140 - 210, 150 - 250</td>
</tr>
<tr>
<td>Ø 2 1/4&quot; - 2 3/8&quot;</td>
<td>120 - 200, 135 - 210, 140 - 210, 150 - 250</td>
</tr>
<tr>
<td>Ø 2 3/16&quot; - 2 15/16&quot;</td>
<td>120 - 200, 135 - 210, 140 - 210, 150 - 250</td>
</tr>
</tbody>
</table>

**Pilot Pins for 9-Series**

**Cutter Kits**

Each hornet carbide cutter kit comes with the following: 9/16" 11/16", 13/16", 15/16", 1-7/16", pilot pins & carrying case.

<table>
<thead>
<tr>
<th>Order No. Description</th>
<th>Order No. Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-1-001 C 1&quot; depth Cutter Kit</td>
<td>9-1-002 C 2-3/8&quot; depth Cutter Kit</td>
</tr>
<tr>
<td>9-1-002 C 2-3/8&quot; Pilot Pins</td>
<td>9-1-001 C 1&quot; depth Cutter Kit</td>
</tr>
</tbody>
</table>

**See pages 47-53 for Drill Accessories.**
**10-Series One-Touch TCT**

Tungsten carbide-tipped with one-touch shank

- No-tool cutter replacement
- When holding with a set screw, tighten to weld on flat rather than dimple area
- Leaves a burr-free finished hole
- 3/4" shank
- Compatible with Nitto Kohki and other auto-feed machines
- Armor plating also available upon request

One-Touch TCT cutters are available in the following sizes:

1-3/8" drill depth – ø 1/2" to ø 2 1/4"

3-3/8" drill depth – ø 1 11/16" to ø 1 23/32"

Every annular cutter includes a corresponding pilot pin.

- Metric cutters available on request

**Order No. Diameter**

| 10-1-164 C | ø 1 1/2" |
| 10-1-162 C | ø 1 3/8" |
| 10-1-160 C | ø 1 11/16" |
| 10-1-158 C | ø 1 13/16" |
| 10-1-156 C | ø 1 7/8" |
| 10-1-154 C | ø 1 5/8" |
| 10-1-152 C | ø 1 3/4" |
| 10-1-150 C | ø 1 1/4" |
| 10-1-148 C | ø 1/2" |
| 10-1-146 C | ø 5/8" |
| 10-1-144 C | ø 9/16" |
| 10-1-142 C | ø 7/8" |
| 10-1-140 C | ø 3/4" |

- 2-3/8" Depth

| 10-1-264 C | ø 1 3/4" |
| 10-1-262 C | ø 1 1/2" |
| 10-1-260 C | ø 1 7/16" |
| 10-1-258 C | ø 1/2" |
| 10-1-256 C | ø 5/8" |
| 10-1-254 C | ø 9/16" |
| 10-1-252 C | ø 7/8" |
| 10-1-250 C | ø 3/4" |
| 10-1-248 C | ø 1 1/16" |
| 10-1-246 C | ø 1 3/16" |
| 10-1-244 C | ø 1 5/32" |
| 10-1-242 C | ø 1 3/8" |
| 10-1-240 C | ø 1 1/4" |
| 10-1-238 C | ø 1 1/8" |
| 10-1-236 C | ø 1 3/16" |
| 10-1-234 C | ø 1 1/16" |
| 10-1-232 C | ø 1 1/16" |
| 10-1-230 C | ø 1 3/32" |
| 10-1-228 C | ø 1 5/64" |
| 10-1-226 C | ø 1 7/64" |
| 10-1-224 C | ø 1 9/64" |
| 10-1-222 C | ø 1 11/64" |
| 10-1-220 C | ø 1 13/64" |

**Rail Cutters**

Cut holes up to 1 11/16" dia. in track rail

- Round, clean, burn-free hole – better than spade drills
- 3/4" Shank
- More cutting teeth to distribute the load evenly – increase tool life and achieve faster feed rates
- Pilot pin included with each cutter
- Armor plating available upon request

**4-Series Carbide-Tipped Rail Cutters**

- Carbide-tipped rail bits for long life and quick, efficient cutting through rust and corrosion

**47-Series Lightning Rail Cutters**

- Cobalt rail bits for increased wear resistance
- Thick cutter wall for extra durability and extended tool life
- Turn-style mounting allows quick and easy installation without tools

**Order No. Diameter**

| 47-1-138 C | ø 1/2" |
| 47-1-136 C | ø 5/8" |
| 47-1-135 C | ø 3/4" |
| 47-1-134 C | ø 9/16" |
| 47-1-132 C | ø 7/8" |
| 47-1-131 C | ø 1" |

**1-3/8" Depth**

| 4-1-30 C | ø 1 1/16" |
| 4-1-28 C | ø 1 3/16" |
| 4-1-26 C | ø 1 5/32" |
| 4-1-24 C | ø 1 7/64" |

**1-1/4" Depth**

| 47-1-140 C | ø 3/4" |
| 47-1-138 C | ø 1 1/8" |

**Unibroach® Cobalt Cutters**

- 5% cobalt for increased wear resistance
- Excellent results when drilling high-tensile steel and difficult-to-machine materials
- Available with TiAIN coating upon request
- Available for hole sizes up to 5" dia.

**Order No. Diameter**

- 1/4" shank is standard for cutters up to 3" dia.
- Metric cutters available on request
- Metric cutters available on request
- See our price list for part numbers

- See pages 47-53 for Drill Accessories.

**FOR MORE INFORMATION**

- 1-800-700-5919
- Visit our Web site at www.csunitec.com

**Parts Numbering System**

- 10-1-164 C
- 10-1-162 C
- 10-1-160 C
- 10-1-158 C
- 10-1-156 C
- 10-1-154 C
- 10-1-152 C
- 10-1-150 C
- 10-1-148 C
- 10-1-146 C
- 10-1-144 C
- 10-1-142 C
- 10-1-140 C
- 10-1-138 C
- 10-1-136 C
- 10-1-134 C
- 10-1-132 C
- 10-1-130 C
- 10-1-128 C
- 10-1-126 C
- 10-1-124 C
- 10-1-122 C
- 10-1-120 C
- 10-1-118 C
- 10-1-116 C
- 10-1-114 C
- 10-1-112 C
- 10-1-110 C
- 10-1-108 C
- 10-1-106 C
- 10-1-104 C
- 10-1-102 C
- 10-1-100 C
- 10-1-98 C
- 10-1-96 C
- 10-1-94 C
- 10-1-92 C
- 10-1-90 C
- 10-1-88 C
- 10-1-86 C
- 10-1-84 C
- 10-1-82 C
- 10-1-80 C
- 10-1-78 C
- 10-1-76 C
- 10-1-74 C
- 10-1-72 C
- 10-1-70 C
- 10-1-68 C
- 10-1-66 C
- 10-1-64 C
- 10-1-62 C
- 10-1-60 C
- 10-1-58 C
- 10-1-56 C
- 10-1-54 C
- 10-1-52 C
- 10-1-50 C
- 10-1-48 C
- 10-1-46 C
- 10-1-44 C
- 10-1-42 C
- 10-1-40 C
- 10-1-38 C
- 10-1-36 C
- 10-1-34 C
- 10-1-32 C
- 10-1-30 C
- 10-1-28 C
- 10-1-26 C
- 10-1-24 C
- 10-1-22 C
- 10-1-20 C
- 10-1-18 C
- 10-1-16 C
- 10-1-14 C
- 10-1-12 C
- 10-1-10 C
- 10-1-8 C
- 10-1-6 C
- 10-1-4 C
- 10-1-2 C
- 10-1-1 C
- 10-1-0 C
- 10-1-3 C
- 10-1-2 C
- 10-1-1 C
- 10-1-0 C

**Pilot Pin for 4-Series**

| 4-3-102 | ø 3/4", 1 1/16" dia., 1 3/8" depth |

**Shank size: 3/4"**

**Pilot pin included with every annular cutter**

- For 3/4" Shanks
10-Series One-Touch TCT

Tungsten carbide-tipped with one-touch shank

- No-tool cutter replacement
- When holding with a set screw, tighten to weldon flat rather than dimple area
- Leaves a burr-free finished hole
- 3/4" shank
- Compatible with Nito Kohki and other auto-feed machines
- Armor plating also available upon request

One-Touch TCT cutters are available in the following sizes:

1-3/8" drill depth – ø 1/2" to ø 2-3/4"

2-3/8" drill depth – ø 1/2" to ø 2-3/4"

3-3/8" drill depth – ø 1/16" to ø 1-1/16"

Every annular cutter includes a corresponding pilot pin.

- Metric cutters available on request

<table>
<thead>
<tr>
<th>1-3/8&quot; Depth</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-1-116 C</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>10-1-118 C</td>
<td>9/16&quot;</td>
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<tr>
<td>10-1-120 C</td>
<td>5/8&quot;</td>
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<td>10-1-122 C</td>
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<td>10-1-124 C</td>
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<td>10-1-128 C</td>
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<td>15/16&quot;</td>
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<td>1-5/16&quot;</td>
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<td>1-7/16&quot;</td>
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<tr>
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<td>1-1/2&quot;</td>
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<td>1-7/8&quot;</td>
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<td>1-11/16&quot;</td>
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<td>1-15/16&quot;</td>
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<td>5/8&quot;</td>
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<tr>
<td>10-1-222 C</td>
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<tr>
<td>10-1-224 C</td>
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<td>10-1-228 C</td>
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<td>10-1-246 C</td>
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<td>10-1-248 C</td>
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<td>1-15/16&quot;</td>
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<td>10-1-264 C</td>
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<table>
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<tr>
<th>3-3/8&quot; Depth</th>
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<td>10-1-272 C</td>
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<td>10-1-278 C</td>
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<td>10-1-280 C</td>
<td>2-1/2&quot;</td>
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<td>2-5/8&quot;</td>
</tr>
<tr>
<td>10-1-284 C</td>
<td>2-3/4&quot;</td>
</tr>
</tbody>
</table>

Pilot pin included with every annular cutter

| Shank size: 3/4" |

Cut holes up to 1-11/16" dia. in track rail

- Round, clean, burr-free hole – better than spade drills
- 3/4" shank
- More cutting teeth to distribute the load evenly – increase tool life and achieve faster feed rates
- Pilot pin included with each cutter
- Armor plating available upon request

4-Series Carbide-Tipped Rail Cutters

- Carbide-tipped rail bits for long life and quick, efficient cutting through rust and corrosion

47-Series Lightning Rail Cutters

- Cobalt rail bits for increased wear resistance
- Thick cutter wall for extra durability and extended tool life
- Turn-style mounting allows quick and easy installation without tools

<table>
<thead>
<tr>
<th>1-1/4&quot; Depth</th>
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</thead>
<tbody>
<tr>
<td>47-1-124 C</td>
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<tr>
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<td>47-1-130 C</td>
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<tr>
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<td>47-1-134 C</td>
</tr>
<tr>
<td>47-1-136 C</td>
</tr>
<tr>
<td>47-1-138 C</td>
</tr>
</tbody>
</table>

Pilot Pin for 4-Series

For 3/4" Shank

4-3-102 3/4" - 1-11/16" dia, 1-3/8" depth

Unibroach® Cobalt Cutters

- 5% cobalt for increased wear resistance
- Excellent results when drilling high-tensile steel and difficult-to-machine materials
- Available with TiAIN coating upon request
- Available for hole sizes up to 5" dia.

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

See pages 47-53 for Drill Accessories.
**Carbide-Tipped Hole Saws**

Cut holes in steel plate up to 3/8" thick

- Tungsten carbide-tipped cutting edges last longer and can be run at higher feeds and speeds to create holes of exceptional quality and accuracy.
- One-piece construction; diameters from 9/16" to 4 1/2".

Designed for use with hand-held drills – recommended drills include our EHB 16 series or other hand-held drills with slip clutch – see page 58

---

### 1-Series Carbide-Tipped Hole Cutters

- 1" effective length
- Center twist pilot drill
- Safety Collar Stop

3/8" shank on cutters up to 3-1/4" dia.
1/2" shank on cutters 3-5/16" dia. and larger

### 2-Series Carbide-Tipped Hole Cutters

Extra Heavy Duty

5/8" effective length

Spring-loaded Pilot Pin designed to fit 1/2" chucks.

---

### HSS Steel Cutter Starter Kit

ZST 100S Kit Includes:

- Set of 5 annular cutters (one each of the following):
  - 9/16" dia. x 1" depth (6-1-118)
  - 11/16" dia. x 1" depth (6-1-122)
  - 13/16" dia. x 1" depth (6-1-126)
  - 15/16" dia. x 1" depth (6-1-130)

2 pilot pins • 1 cutter storage box • 1 Power Worker magnetic stick (P100)

1 quart high-performance cutting oil (ZHS 006)

See pages 38-39 for more information on HSS annular cutters.

---

### Armor-Plated TiAlN Carbide-Coated Cutter Starter Kit

ZST 100P Kit Includes:

- Set of 5 annular cutters (one each of the following):
  - 9/16" dia. x 1" depth (8-1-118)
  - 11/16" dia. x 1" depth (8-1-122)
  - 13/16" dia. x 1" depth (8-1-126)
  - 15/16" dia. x 1" depth (8-1-130)

1-1/16" dia. x 1" depth (8-1-134)

2 pilot pins • 1 cutter storage box • 1 Power Worker magnetic stick (P100)

1 quart high-performance cutting oil (ZHS 006)

See pages 40-41 for more information on Armor-Plated TiAlN Carbide-Coated annular cutters.

---

### HSS Steel Cutter Starter Kit with Power Cleaner

ZST 200S Kit Includes:

- Set of 5 annular cutters (one each of the following):
  - 9/16" dia. x 1" depth (6-1-118)
  - 11/16" dia. x 1" depth (6-1-122)
  - 13/16" dia. x 1" depth (6-1-126)
  - 15/16" dia. x 1" depth (6-1-130)

2 pilot pins • 1 cutter storage box • 1 Power Cleaner (P200)

1 quart high-performance cutting oil (ZHS 006)

See pages 38-39 for more information on HSS annular cutters.

---

### Accessories

#### Starter Kits

CS Unitec starter kits offer the essentials you need to begin drilling. We have three options that provide a cost-effective tool set for your application.

#### HSS Steel Cutter Starter Kit

- ZST 100S
- ZST 100P
- ZST 200S

#### Armor-Plated TiAlN Carbide-Coated Cutter Starter Kit

- ZST 100P

See pages 38-39 for more information on HSS annular cutters.

---

Model EHB 16/2,4
3 R/L C: 2-speed, variable-speed drill with slip clutch
Carbide-Tipped Hole Saws

**Cut holes in steel plate up to 3/8” thick**

- Tungsten carbide-tipped cutting edges last longer and can be run at higher feeds and speeds to create holes of exceptional quality and accuracy
- One-piece construction; diameters from 9/16” to 4 1/2”

**Model EHB 16/2.4**

3 R/L C: 2-speed, variable-speed drill with safety clutch

---

### 1-Series Carbide-Tipped Hole Cutters

**1” effective length**

Center twist pilot drill

Safely Collar Stop

3/8” shank on cutters up to 3-1/4” dia.

2-1/16” shank on cutters 3-5/16” dia. and larger

---

### 2-Series Carbide-Tipped Hole Cutters Extra Heavy Duty

**5/8” effective length**

Spring-loaded Pilot Pin

Cutters feature milled, 2-flat shank designed to fit 1/2” chucks.

---

### Accessories

**Starter Kits**

CS Unitec starter kits offer the essentials you need to begin drilling. We have three options that provide a cost-effective tool set for your application.

**HSS Steel Cutter Starter Kit**

- ZST 100S Kit Includes:
  - Set of 5 annular cutters (one each of the following):
    - 9/16” dia. x 1” depth (6-1-118)
    - 11/16” dia. x 1” depth (6-1-122)
    - 13/16” dia. x 1” depth (6-1-126)
    - 15/16” dia. x 1” depth (6-1-130)
    - 1-1/16” dia. x 1” depth (6-1-134)
  - 2 pilot pins
  - 1 cutter storage box
  - 1 Power Worker magnetic stick (P0W 100)
  - 1 quart high-performance cutting oil (ZHS 006)

**Armor-Plated TiAlN Carbide-Coated Cutter Starter Kit**

- ZST 100P Kit Includes:
  - Set of 5 annular cutters (one each of the following):
    - 9/16” dia. x 1” depth (8-1-118)
    - 11/16” dia. x 1” depth (8-1-122)
    - 13/16” dia. x 1” depth (8-1-126)
    - 15/16” dia. x 1” depth (8-1-130)
    - 1-1/16” dia. x 1” depth (8-1-134)
  - 2 pilot pins
  - 1 cutter storage box
  - 1 Power Worker magnetic stick (P0W 100)
  - 1 quart high-performance cutting oil (ZHS 006)

See pages 38-39 for more information on HSS annular cutters.

See pages 40-41 for more information on Armor-Plated TiAlN Carbide-Coated annular cutters.

---

**HSS Steel Cutter Starter Kit with Power Cleaner**

- ZST 200S Kit Includes:
  - Set of 5 annular cutters (one each of the following):
    - 9/16” dia. x 1” depth (6-1-118)
    - 11/16” dia. x 1” depth (6-1-122)
    - 13/16” dia. x 1” depth (6-1-126)
    - 15/16” dia. x 1” depth (6-1-130)
    - 1-1/16” dia. x 1” depth (6-1-134)
  - 2 pilot pins
  - 1 cutter storage box
  - 1 Power Cleaner (P0W 200)
  - 1 quart high-performance cutting oil (ZHS 006)

See pages 38-39 for more information on HSS annular cutters.

---

**Other annular cutter kits are available – contact CS Unitec for details.**

---

**Hole Cutters**

- 9/16” dia. x 1” depth (6-1-118)
- 11/16” dia. x 1” depth (6-1-122)
- 13/16” dia. x 1” depth (6-1-126)
- 15/16” dia. x 1” depth (6-1-130)
- 1-1/16” dia. x 1” depth (6-1-134)

---

**Starters Kits**

- 1 quart high-performance cutting oil (ZHS 006)

---

**Kit Includes:**

- ZST 200S
  - 1-1/16” dia. x 1” depth (6-1-134)
- ZST 100P
  - 1-1/16” dia. x 1” depth (8-1-134)

---

**See page 52 for more information on the Power Cleaner (P0W 200) and Power Worker magnetic stick (P0W 100).**

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**See pages 40-41 for more information on Armor-Plated TiAlN Carbide-Coated annular cutters.**

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**For details, contact CS Unitec**

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**CS Unitec**

- 1-800-700-5919
- Visit our Web site at www.csunitec.com
Coolants and Cutting Pastes
Coolant extends the life of cutting tools – ideal for cutting steel, stainless steel and hard metals

ProLube™
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™ Paste (12 oz. tub) – Part No. CS 7030-712
ProLube™ Liquid (1 gallon) – Part No. CS 7010-504

- High-performance
- Liquid coolant is concentrated for dilution with water
- Eco-friendly

Cutting Oil
- High-performance, biodegradable, non-hazardous oils and pastes
- Oils for heavy removal of metal, including stainless steel
- Chlorine-free (MSDS on bottle/tub)
- Not necessary to dilute with water

Cutting Oil:
Part No. ZHS 006 (quart)
Part No. ZHS 005 (gallon)

Pressurized Coolant Bottle
Use with any automatic internal lubrication system.
Part No. 9 4002 0020

Pilot Pins for Cutters
- Milled channel efficiently supplies internal lubrication to cutting teeth
- Available for cutter diameters ranging from 1/8" to 5/8" and up to 8" depth of cut
- See price list for part numbers

Shown at right: 2-piece pin for 3" and 4" depth cutters with 8mm pilot hole (Part No. 7-3-402).
Coolant extends the life of cutting tools – 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™

Shown at right: 2-piece pin for 3” and 4” depth cutters with 8mm pilot hole (Part No. 7-3-402).

Cutting Oil

- High-performance, biodegradable, non-hazardous oils and pastes
- Oils for heavy removal of metal, including stainless steel
- Chlorine-free (MSDS on bottle/tub)
- Not necessary to dilute with water

Pressurized Coolant Bottle

Use with any automatic internal lubrication system.
Part No. 9 4002 0020

Upgrade your drill’s cooling system: see page 49 for arbors with automatic cooling.

- Milled channel efficiently supplies internal lubrication to cutting teeth
- Available for cutter diameters ranging from 7/16” to 51/8” and up to 8” depth of cut
- See price list for part numbers

Pilot Pins for Cutters

Cutting Oil:

Part No. ZHS 006 (quart)
Part No. ZHS 005 (gallon)

- Keyless for fast, no-tools changeover for 3/4” dia. shank annular cutters
- Automatic internal cooling
- Turn, click… go!

ZSS 200 – Morse Taper No. 2
3/4” arbor bore
ZSS 300 – Morse Taper No. 3
3/4” arbor bore
ZSS 200 – Morse Taper No. 2
3/4” arbor bore
ZSS 300 – Morse Taper No. 3
3/4” arbor bore

ZIA 219M – Morse Taper No. 2
3/4” arbor bore
ZIA 319M – Morse Taper No. 3
3/4” arbor bore
ZIA 30/75 – Morse Taper No. 3
3/4” arbor bore, 3” depth
ZIA 419M – Morse Taper No. 4
3/4” arbor bore

Automatic Cooling

ZIA 219KN – Morse Taper No. 2
3/4” arbor bore
ZIA 319KN – Morse Taper No. 3
3/4” arbor bore
ZIA 30/32 – Morse Taper No. 3
1 1/4” arbor bore
ZIA 432 KN – Morse Taper No. 4
1 1/4” arbor bore

Quick-Lock Arbor with Automatic Internal Cooling

- Keyless, quick-change system for annular cutters saves time and money.
- Just twist and lock!

Drill Chucks for Straight-Shank Twist Drills

- Two capacities: 1/2” and 3/4”; four chucks and adapters to fit all magnetic drills

A) IBC 17 – 1/2” chuck for CSU 32 series
B) IBC 18 – 1/2” chuck with 1/2” shank for MABasic 200, MABasic 400 and AIRBORG™
(fits all drills with 1/4” arbor bore)
C) IBC 21 – 3/4” chuck with MT3 shank for MABasic 525, MABasic 845 and CSU 100/3RL
D) IBC 22 – 3/4” chuck with MT2 shank for MABasic 450, MAB 455, MAB 485 and CSU 50 series

Manual Cooling

ZIA 219M – Morse Taper No. 2
3/4” arbor bore
ZIA 319M – Morse Taper No. 3
3/4” arbor bore
ZIA 30/75 – Morse Taper No. 3
3/4” arbor bore, 3” depth
ZIA 419M – Morse Taper No. 4
3/4” arbor bore

Visit our Web site at www.csunitec.com
We also offer extensions with the following connections:

- GST-230 Part No. clamp collets to tap 3/8” to 1 1/8”.
- GST-160 Part No. Variable clamp collets for use in tap chuck No. GSW.830C:
- 7-9-902 – 2” extension
- 7-9-903 – 3” extension
- 7-9-906 – 6” extension
- 7-9-912 – 12” extension
- 7-9-918 – 18” extension

We also offer extensions with the following connections:

- 3 Flats for Geared Chucks x 3/8” arbor
- 7-9-100 – 2-1/8” length, 1/2” shank
- 7-9-200 – 2” length, 3/4” shank

2-in-1 Drill/Taps Drill and tap with one tool

National Coarse Threads (UNC) – sizes available:
- CS500 – 1/2” x 13 UNC
- CS625 – 5/8” x 11 UNC
- CS750 – 3/4” x 10 UNC

Order No.: Jaw 300

Accessories

- 82˚ and 90˚ Countersinks
  - Countersink hole sizes:
  - CTS 30 from 5/16” to 2” / 82˚
  - CTS 50 from 5/16” to 2 1/8” / 90˚

- Quick-Change Tapping Chucks
  - Part No. GSW.830C tapping chuck includes two variable clamp collets to tap 5/8” to 1 1/8”. It is the least expensive system if you will tap more than 4 sizes. GSW.830C has an MT3 connection.
  - For use with all MT3 drills.
  - Part No. GSW-444 quick-change tapping chuck with MT4 connection (for MAB 1300). Collets not included.
  - GSS-420 collet for 20mm shanks
  - GSS-422 collet for 22mm shanks
  - GSS-427 collet for 27mm shanks
  - GSS-433 collet for 33mm shanks
  - GSS-442 collet for 42mm shanks

- Detachable Chip Guard
  - Protects against flying chips when drilling
  - ZSS 050 – for MAB 1300 and MAB 525

- Drill not included.
MOBIL CLAMP

A true advance in magnetic drilling technology: The new clamping system MOBIL CLAMP can be used to convert a magnetic drilling machine into a bench drill.

Extends the functionality of your portable magnetic drill. Ideal for parts that previously could only be drilled in the workshop – they can now be machined on site. MOBIL CLAMP makes it possible to drill, countersink, ream or tap small parts, since these can be mounted into the quick clamping device.

With the mounting of a magnetic drilling machine onto the surface of the vice and the subsequent activation of the magnet, you will have a versatile, stationary drilling machine in next to no time. The magnetic drilling machine becomes a multi-purpose machine: whether large or small applications, flat or high, with the twist drill or the reamer, everything is possible. A stable support, designed for the MOBIL CLAMP clamping device, ensures the correct working height and a comfortable and reliable operation.

### MOBIL CLAMP

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Jaw width</th>
<th>Quick-action clamping jaw</th>
<th>V-block clamping jaw</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZMC 180</td>
<td>4&quot; (100mm)</td>
<td>3.15&quot; (80mm)</td>
<td></td>
</tr>
</tbody>
</table>

**Drilling stand and vise for hand drills**

- Industrial drilling pillars for commercial hand drills with 43mm chuck journal diameter.
- Optimum stability by cast base plate combined with a pillar top of the MAB series.
- Versatile usability by a drill vise with 4" (100mm) jaw width (special accessories).
- Screws for slots are available for additional security under higher loads (special accessories).
- Working stroke of 9" - 17" (230 - 425mm).

**Drilling Pillar**

Order No. MBS 300
For hand drills with a 1-11/16" collar diameter and 7" stroke.

**Vise**

Order No. ZST 300
Jaw width: 4" (100mm)
Clamping range: 4" (100mm)

**Accessories**

- Screws for T-Slots – Order No. ZTN 100
- Hexagon Nut with Collar – Order No. ZSM 100
Vacuum Plates

For applications where drill alone will not adhere to surface

**Vacuum Plate for Channeled Plates**

Order No. ZAV 301 (vacuum plate only)
Order No. ZAV 310 (vacuum plate and vacuum pump, 110V)

Ideal for channeled plates. High-performance vacuum pump with circular oil lubrication. Clamping plate diameter: 11.8”

**Vacuum Plate for Smooth Surfaces**

Order No. ZAV 401 (vacuum plate only)
Order No. ZAV 410 (vacuum plate and vacuum pump, 110V)

Ideal for smooth surfaces. High-performance vacuum pump with circular oil lubrication. Clamping plates with two suction surfaces and cut-through drilling area.

Metal Chip Cleanup Tools

- Easily clean up sharp-edged drill chips, screws and other metal parts
- Ideal for hard-to-reach spaces

**Power Cleaner – POW 200**

Two-in-one tool for removing chips

- Hook pulls away metal swarf from drill
- Brush cleans fine chips

**Power Worker – POW 100**

Simple cleanup of metal chips

- Items are safely ejected off of Power Worker without hand contact
- Rare earth magnet cleans metal parts and shavings

Pipe Saddle Clamp System

Ensures safe, secure drilling of pipes and tubular material

**Pipe Saddle Clamp System**

Ideal for applications requiring the flexibility of clamping on pipes from 3-1/4” to 20” diameter. These pipe clamp systems are flexible and easy to use. Swivelling V-blocks fit the contour of the pipe while the heavy-duty tension chains secure affix the clamps to the piece being drilled. The drilling position can be easily and safely adjusted.

**ZRO 250 Pipe Saddle Clamp System**

Pipe diameters 3 1/4” - 10”
Chain length: 35 1/2”
For models: MABasic 200, MABasic 400, MABasic 450, MAB 455, MAB 485 and CSU 32RL

**ZRO 500 Pipe Saddle Clamp System**

Pipe diameters 6” - 20” (extension chain available)
Chain length: 65”
For models: MAB 525, MAB 825, MAB 845, CSU 50 Series, CSU 100/3RL, AB-4300-2 and HB 4400

Order No. ZRO 001 – extension chain for ZRO 500 pipe saddle clamp.

Dimensions shown in mm.
Vacuum Plates

For applications where drill alone will not adhere to surface

Vacuum Plate for Channeled Plates
Order No. ZAV 301 (vacuum plate only)
Order No. ZAV 310 (vacuum plate and vacuum pump, 110V)
Ideal for channeled plates. High-performance vacuum pump with circular oil lubrication. Clamping plate diameter: 11.8”

Vacuum Plate for Smooth Surfaces
Order No. ZAV 401 (vacuum plate only)
Order No. ZAV 410 (vacuum plate and vacuum pump, 110V)
Ideal for smooth surfaces. High-performance vacuum pump with circular oil lubrication. Clamping plates with two suction surfaces and cut-through drilling area.

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Pipe Saddle Clamp System
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ZRO 250 Pipe Saddle Clamp System
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ZRO 500 Pipe Saddle Clamp System
Pipe diameters 6” - 20” (extension chain available)
Chain length: 65”
For models: MAB 525, MAB 825, MAB 845, CSU 50 Series, CSU 100/3RL, AB-4300-2 and HB 4400

Order No. ZRO 001 – extension chain for ZRO 500 pipe saddle clamp.

Dimensions shown in mm.
Multi-Purpose Beveling Machine

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

The EKF multi-purpose beveling machine is designed to bevel 30° or 45° weld seams on steel, stainless steel, nonferrous metals, brass and plastics. It can also be used to deburr and chamfer; straighten edges, internal and external radii; and countersink holes from 7/8” diameter.

- Fine adjustment feature for slight chamfers when deburring for the preparation of weld seams
- Four milling head options – 30˚, 45˚, 0.063” (1.6mm) and 0.098” (2.5mm) radius inserts 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)

Standard equipment includes milling head and three inserts, SW22 key, carrying case and user’s manual. Please see our Price List for available accessories.

Cutting Inserts – Sold as pack of 10
Order No. SHM 200: 30˚ and 45˚
Order No. SHM 200-E: 30˚ and 45˚ for stainless steel
Order No. SHM 202: 2.5mm radius (0.098”)

Cutting Inserts - Sold individually
Order No. SHM 201: 1.6mm radius (0.063”)

One Machine, Three Milling Options

<table>
<thead>
<tr>
<th>Beveling angle</th>
<th>EKF300.3</th>
<th>EKF450.3</th>
<th>EKF452.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>30˚</td>
<td>1/4”</td>
<td>1/4”</td>
<td>1/4”</td>
</tr>
<tr>
<td>45˚</td>
<td>1/4”</td>
<td>1/4”</td>
<td>1/4”</td>
</tr>
<tr>
<td>2.5mm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Portable Beveler Specifications

<table>
<thead>
<tr>
<th>Part Number:</th>
<th>EKF 300.3</th>
<th>EKF 450.3</th>
<th>EKF452.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beveling angle*</td>
<td>30˚</td>
<td>45˚</td>
<td>2.5mm</td>
</tr>
<tr>
<td>Bevel width (max.)**</td>
<td>1/4”</td>
<td>1/4”</td>
<td>1/4”</td>
</tr>
<tr>
<td>Motor power/Voltage</td>
<td>13.5 Amp / 110V (220 V / 50 Hz also available)</td>
<td>3000 SFPM</td>
<td>3</td>
</tr>
<tr>
<td>Cutting inserts</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>12-1/2” x 5-1/2” x 11-5/8”</td>
<td>10.5 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

* EKF milling heads are interchangeable.
** Max. bevel width may require several passes, depending on material hardness.

Portable Multi-Purpose Beveling Machine

EKF300.3: Milling cutter 30°, Chamfer 0 - 1/4”
EKF450.3: Milling cutter 45°, Chamfer 0 - 1/4”
0.063” (1.6mm) radius
0.098” (2.5mm) radius

CS Unitec’s SKF 025 Beveling Machine provides fast and easy preparation of weld seams and bevel angles 15˚ to 60˚ on plate or pipe. It is ideal for use on steel, stainless steel, aluminum and nonferrous metals and offers high-quality performance that allows for superior weld connections.

- Continuously adjustable angle (15˚ to 60˚) and land width up to 3/4”
- Robust design, single operator control and easy handling; designed for continuous operation with smooth roller guides
- Anti-vibration system protects electronics and allows for more comfortable operation
- Includes one milling head and 10 indexable inserts for fast metal removal and extended tool life
- Work on welding angles and weld preparation on pipes/tubes with a minimum OD of 6-1/4” (160mm) with built-in pipe roller guide; ideal for beveling pipe 6-1/4” OD and larger

Standard equipment includes milling head and 10 sintered carbide reversible cutting inserts, tools for assembly, built-in pipe roller guide, steel carrying case and user’s manual. Please see our Price List for available accessories.

Cutting Plates - Sold as pack of 20
Order No. SHM 800: for beveling carbon and stainless steel

CS Unitec 1-800-700-5919 • Visit our Web site at www.csunitec.com
PORTABLE BEVELING MACHINE

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

CS Unitec’s SKF 025 Beveling Machine provides fast and easy preparation of weld seams and bevels 15° to 60° angles on plate or pipe. It is ideal for use on steel, stainless steel, aluminum and nonferrous metals and offers high-quality performance that allows for superior weld connections.

- Continuously adjustable angle (15° to 60°) and land width up to 3/4”
- Robust design, single operator control and easy handling; designed for continuous operation with smooth roller guides
- Anti-vibration system protects electronics and allows for more comfortable operation
- Includes one milling head and 10 indexable inserts for fast metal removal and extended tool life
- Work on welding angles and weld preparation on pipes’ tubes with a minimum OD of 6-1/4” (160mm) with built-in pipe roller guide; ideal for beveling pipe 6-1/4” OD and larger

Portable Beveling Machine

<table>
<thead>
<tr>
<th>Part Number: SKF 025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beveling angle</td>
</tr>
<tr>
<td>Bevel width (max.)**</td>
</tr>
<tr>
<td>Motor power</td>
</tr>
<tr>
<td>Voltage</td>
</tr>
<tr>
<td>(220V / 50 Hz also available)</td>
</tr>
<tr>
<td>Cutting speed</td>
</tr>
<tr>
<td>Cutting inserts</td>
</tr>
<tr>
<td>Dimensions L x H</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

** Max. bevel width may require several passes, depending on material hardness. Steel case intended mainly for shipping purposes, damage may occur in transit.

Cutting Plates - Sold as pack of 20
Order No. SHM 800: for beveling carbon and stainless steel

Standard equipment includes one milling head, 10 sintered carbide reversible cutting inserts, tools for assembly, built-in pipe roller guide, steel carrying case and user’s manual. Please see our Price List for available accessories.
**Self-Guiding Beveling Machine**

**Powerful, automatic edge processing machine for 15° to 60° edges on plate up to 1-1/2” thick**

CS Unitec’s AutoCUT 500 Self-Propelled Beveling Machine provides fast and easy preparation of weld seams and bevels 15° to 60° angles on plate up to 1-1/2” thick. The unit propels itself on the plate – both forward and backward – without the need for a cart or stand. It is ideal for use on steel, aluminum and nonferrous metals and offers high-quality performance that allows for superior weld connections.

- Continuously adjustable angle (15° to 60°) and land width up to 1-3/16”
- Robust design, single operator control and easy handling
- Automatic feed on plate without the need for a cart or stand
- Includes one milling head and 6 indexable inserts for fast metal removal and extended tool life

**Automatic Edge Processing Machine Specifications**

<table>
<thead>
<tr>
<th>Part Number: AutoCUT 500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beveling angle</td>
</tr>
<tr>
<td>Bevel width (max.)*</td>
</tr>
<tr>
<td>Motor power</td>
</tr>
<tr>
<td>Voltage</td>
</tr>
<tr>
<td>Cutting speed</td>
</tr>
<tr>
<td>Cutting inserts</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

*Max. Bevel width may require several passes, depending on material hardness.

**Cutting Plates - Sold as pack of 20**

Order No. SHM 400: for beveling carbon and stainless steel!

**Standard equipment** includes one milling head, 6 sintered carbide reversible cutting inserts, 1 jaw spanner (M 19), 1 t-handle screwdriver (WS 5), 1 offset screwdriver (WS 8 & 10), 1 screwdriver (TX 15), 1 inlet rail, 1 outlet rail, carrying case and user’s manual. Please see our Price List for available accessories.
Sheet Metal Deburring Machine

Double-sided deburring of sheet metal up to 0.2” thick in one pass – with no additional treatment

Double-sided deburring of sheet metal up to 0.2” thick can be achieved in a single operation with no additional treatment. The machine’s flap wheels can be easily adjusted as they wear. One set of wheels lasts for approximately 6500 feet of stainless steel sheet. Supplied standard with two 80 grit flap wheels, the ROLEI® BE 5 can be used with other optional grits to suit the facet width and materials of your particular application.

Features two-speed operation:
- Speed 1: fine deburring, 600 RPM
- Speed 2: standard deburring, 1200 RPM

Optional accessories:
- Spare flap wheels (40, 60, 80, and 120 grit)
- Machine stand, made from strong steel
- Port for industrial dust extractor

Can also be used on its side with roller tables for large thin sheets.

ROLEI BE 5 Specifications

<table>
<thead>
<tr>
<th>Part Number: 30310A (220 Volt)</th>
<th>30310 (380 Volt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-phase motor</td>
<td>220 V 3-phase / 2 speeds</td>
</tr>
<tr>
<td>2 kW / 9 Amp</td>
<td>380 V 3-phase / 2 speeds</td>
</tr>
<tr>
<td>2 kW / 4.5 Amp</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>19.7” x 12.8” x 7.9”</td>
</tr>
<tr>
<td>Weight</td>
<td>64 lbs.</td>
</tr>
<tr>
<td>Options</td>
<td>Machine stand, dust extractor connection port, teflon tape</td>
</tr>
</tbody>
</table>

ROLEI BE 5 Flap Wheels

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Grit</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>37040</td>
<td>40</td>
<td>2 discs per pack</td>
</tr>
<tr>
<td>37060</td>
<td>60</td>
<td>2 discs per pack</td>
</tr>
<tr>
<td>37080</td>
<td>80</td>
<td>2 discs per pack</td>
</tr>
<tr>
<td>37120</td>
<td>120</td>
<td>2 discs per pack</td>
</tr>
</tbody>
</table>

Dust extraction port (end and bottom views shown above) (Order No. 30330)

Teflon protective tape – self-adhesive (2 required) (Order No. 30341 (27.5” length x 3/4” width)) For extension rail to protect from scratching the workplace.

Cutting Plates - Sold as pack of 20
Order No. SHM 400:
- for beveling carbon and stainless steel

CS Unitec’s AutoCUT 500 Self-Propelled Beveling Machine provides fast and easy preparation of weld seams and bevels 15˚ to 60˚ angles on plate up to 1-1/2” thick. The unit propels itself on the plate – both forward and backward – without the need for a cart or stand. It is ideal for use on steel, aluminum and nonferrous metals and offers high-quality performance that allows for superior weld connections.

- Continuously adjustable angle (15˚ to 60˚) and land width up to 1-3/16”
- Robust design, single operator control and easy handling
- Automatic feed on plate without the need for a cart or stand
- Includes one milling head and 6 indexable inserts for fast metal removal and extended tool life

Continuously Adjustable Beveling Angle
Bevel 15˚ to 60˚ angles and land width up to 1-3/16” on plate up to 1-1/2” thick.

Reversible Carbide Cutting Inserts
Round inserts provide more useable edges per inserts.

Double-sided deburring of sheet metal up to 0.2” thick can be achieved in a single operation with no additional treatment. The machine’s flap wheels can be easily adjusted as they wear. One set of wheels lasts for approximately 6500 feet of stainless steel sheet. Supplied standard with two 80 grit flap wheels, the ROLEI® BE 5 can be used with other optional grits to suit the facet width and materials of your particular application.

Features two-speed operation:
- Speed 1: fine deburring, 600 RPM
- Speed 2: standard deburring, 1200 RPM

Optional accessories:
- Spare flap wheels (40, 60, 80, and 120 grit)
- Machine stand, made from strong steel
- Port for industrial dust extractor

Can also be used on its side with roller tables for large thin sheets.

ROLEI BE 5 Specifications

<table>
<thead>
<tr>
<th>Part Number: 30310A (220 Volt)</th>
<th>30310 (380 Volt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-phase motor</td>
<td>220 V 3-phase / 2 speeds</td>
</tr>
<tr>
<td>2 kW / 9 Amp</td>
<td>380 V 3-phase / 2 speeds</td>
</tr>
<tr>
<td>2 kW / 4.5 Amp</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>19.7” x 12.8” x 7.9”</td>
</tr>
<tr>
<td>Weight</td>
<td>64 lbs.</td>
</tr>
<tr>
<td>Options</td>
<td>Machine stand, dust extractor connection port, teflon tape</td>
</tr>
</tbody>
</table>

ROLEI BE 5 Flap Wheels

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Grit</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>37040</td>
<td>40</td>
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Order No. SHM 400:
- for beveling carbon and stainless steel
Electric Drills and Drive Units

**Slow Speed: two-geared, variable-speed reversible motors**

- High-torque, two-geared 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

**Heavy-Duty Drills for Industry and Construction:**

- High-torque output
- Variable-speed, two- and four-geared 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 1/4” capacities to protect operator and tool
- Drilling capacities up to 1 1/4” in steel
- Special OEM motors available on request
- One-year warranty

### Motor Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Motor Power (Amps)</th>
<th>Voltage</th>
<th>Load Speed (RPM)</th>
<th>Drilling Capacity in Steel</th>
<th>Reversible</th>
<th>Chuck/Arbor</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHB 16/1.4 S</td>
<td>7.3</td>
<td>110V</td>
<td>0-500</td>
<td>1/8”</td>
<td>NO</td>
<td>5/8” Keyless</td>
<td>6.8</td>
</tr>
<tr>
<td>EHB 16/1.4 S R/L</td>
<td>9.6</td>
<td>110V</td>
<td>0-450</td>
<td>5/32”</td>
<td>19</td>
<td>YES</td>
<td>5/8” Keyless</td>
</tr>
<tr>
<td>EHB 16/2.4 S</td>
<td>10</td>
<td>110V</td>
<td>0-430/0-760</td>
<td>3/16”</td>
<td>19</td>
<td>YES</td>
<td>5/8” Geared</td>
</tr>
<tr>
<td>EAW 16/2 R/L</td>
<td>9</td>
<td>110V</td>
<td>510/950</td>
<td>N/A</td>
<td>8</td>
<td>YES</td>
<td>5/8” X 16 UN</td>
</tr>
<tr>
<td>EHB 20/2.4</td>
<td>10.5</td>
<td>110V</td>
<td>250/450</td>
<td>3/8”</td>
<td>32</td>
<td>NO</td>
<td>MT2</td>
</tr>
<tr>
<td>EHB 32/4.2</td>
<td>15.5</td>
<td>110V</td>
<td>110/175/245/385</td>
<td>1/4”</td>
<td>112</td>
<td>NO</td>
<td>MT3</td>
</tr>
<tr>
<td>EAU 34/4”</td>
<td>20</td>
<td>110V</td>
<td>80/130/360/570</td>
<td>–</td>
<td>203</td>
<td>YES</td>
<td>MT3</td>
</tr>
<tr>
<td>EAU 36/4” R/L1</td>
<td>22</td>
<td>110V</td>
<td>50-120</td>
<td>1/16”</td>
<td>–</td>
<td>187</td>
<td>YES</td>
</tr>
</tbody>
</table>

1. All units available in 220 Volt / 50Hz
2. EAU 34/4” available with control box (on/off, reverse) – order Model. No. EAU 34/4 CB
3. EAU 36/4” R/L available with control box – order Model. No. EAU 36/4 R/L CB
4. Special motors available upon request.

### Drive Units Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Motor Power (Amps)</th>
<th>Voltage</th>
<th>Load Speed (RPM)</th>
<th>Drilling Cap. in Steel</th>
<th>Tube Rolling (max.)</th>
<th>Reversible</th>
<th>Torque Output (ft./lbs.)</th>
<th>Torque Control</th>
<th>Arbor</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHB 32/2.2 R/L</td>
<td>16.3</td>
<td>110V</td>
<td>60-140 / 200-470</td>
<td>1/4”</td>
<td>2”</td>
<td>YES</td>
<td>92 max.</td>
<td>YES</td>
<td>MT3</td>
<td>14</td>
</tr>
<tr>
<td>ETE 32/2.3 R/L</td>
<td>16.3</td>
<td>110V</td>
<td>30-75 / 90-230</td>
<td>N/A</td>
<td>3”***</td>
<td>YES</td>
<td>174 max.</td>
<td>NO</td>
<td>MT3</td>
<td>15</td>
</tr>
</tbody>
</table>

1. 1/4” Square Drive with MT3 – Part No. 830-1230-050
2. 3/8” Square Drive with MT3 – Part No. 830-1230-075

**SLOW-SPEED ELECTRIC DRIVE UNITS**

**ELECTRIC DRILLS AND DRIVE UNITS**

### Model No.

- EHB 16/1.4 S
- EHB 16/1.4 S R/L
- EHB 16/2.4 S R/L C
- EAW 16/2 R/L
- EHB 20/2.4
- EHB 32/4.2
- EAU 34/4 CB
- EAU 36/4 R/L R/L

**Model EHB 20/2.4**

- High-torque, multi-geared and variable-speed 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

**Model EHB 32/2.2 R/L**

- High-torque, two-geared 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
**Electric Drills and Drive Units**

**High-torque, multi-geared and variable-speed motors**

- High-torque output
- Variable-speed, two- and four-geared 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 1/4" capacities to protect operator and tool
- Drilling capacities up to 1 1/4" in steel
- Special OEM motors available on request
- One-year warranty

---

**Heavy-Duty Drills for Industry and Construction:**

- High-torque
- Variable-speed, two- and four-geared drills
- 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

---

**Slow Speed: two-geared, variable-speed reversible motors**

- High-torque, two-geared 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

---

**Motor**

- **Motor Power (Amps)**
- **Load Speed (RPM)**
- **Drilling Capacity in Steel**
- **Max. Torque Output (ft./lbs.)**
- **Reversible**
- **Chuck/Arbor**
- **Weight (lbs.)**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Motor Power (Amps)</th>
<th>Voltage</th>
<th>Load Speed (RPM)</th>
<th>Drilling Capacity in Steel</th>
<th>Max. Torque Output (ft./lbs.)</th>
<th>Reversible</th>
<th>Chuck/Arbor</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHB 16/1.4 S</td>
<td>7.3</td>
<td>110V</td>
<td>0-500</td>
<td>3/4&quot;</td>
<td>12</td>
<td>NO 3/8&quot; Keyless</td>
<td>6.8</td>
<td></td>
</tr>
<tr>
<td>EHB 16/1.4 S R/L</td>
<td>9.6</td>
<td>110V</td>
<td>0-450</td>
<td>3/4&quot;</td>
<td>19</td>
<td>YES 3/8&quot; Keyless</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>EHB 16/2.4 S R/L C</td>
<td>10</td>
<td>110V</td>
<td>0-430/0-760</td>
<td>3/4&quot;</td>
<td>19</td>
<td>YES 3/8&quot; Geared</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>EAW 16/2 R/L</td>
<td>9</td>
<td>110V</td>
<td>510/950</td>
<td>N/A</td>
<td>8</td>
<td>YES 3/8&quot; X 16 UN</td>
<td>7</td>
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<tr>
<td>EHB 20/2.4</td>
<td>10.5</td>
<td>110V</td>
<td>250/450</td>
<td>3/4&quot;</td>
<td>32</td>
<td>NO MT2</td>
<td>9.2</td>
<td></td>
</tr>
<tr>
<td>EHB 32/4.2</td>
<td>15.5</td>
<td>110V</td>
<td>110/175/245/385</td>
<td>1 1/4&quot;</td>
<td>112</td>
<td>NO MT3</td>
<td>15.2</td>
<td></td>
</tr>
<tr>
<td>EAW 34/4**</td>
<td>20</td>
<td>110V</td>
<td>8/10/130/360/570</td>
<td>–</td>
<td>203</td>
<td>YES MT3</td>
<td>19.5</td>
<td></td>
</tr>
<tr>
<td>EAU 36/4 R R/L with 4-speed gearbox and variable speed</td>
<td>22</td>
<td>110V</td>
<td>50-120</td>
<td>–</td>
<td>187</td>
<td>YES MT3</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

---

**Model No.**

- **Motor Power (Amps)**
- **Load Speed (RPM)**
- **Drilling Cap. in Steel**
- **Tube Rolling (max.)**
- **Reversible**
- **Torque Output (ft./lbs.)**
- **Torque Control**
- **Arbor**
- **Weight (lbs.)**

<table>
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<tr>
<th>Model No.</th>
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<td>2&quot;</td>
<td>YES</td>
<td>92 max.</td>
<td>YES</td>
<td>MT3</td>
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<td>3&quot;</td>
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<td>MT3</td>
<td>15</td>
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* All units available in 220 Volt / 50Hz
** EAU 34/4 CB available with motor control box
*** With Expander (Up to 2 1/2" with Bead Roller)
* 1/4”, Square Drive with MT3 – Part No. 830-1220-050
* 5/8”, Square Drive with MT3 – Part No. 830-1220-075

---

**Contact: 1-800-700-5919  Visit our Web site at www.csuntec.com**
Special Electric Motor Options

High-torque, reversible electric drill motors for custom applications

Custom Design Options Include:
✓ Forward/Reverse
✓ Variable Speeds
✓ Multiple Gears
✓ Spindle: MT or Special
✓ Multifunctional Control Boxes or Handles
✓ 1/2 to 4 HP
✓ Modular Design

Contact us today to configure the motor that meets your specific driving applications.
Custom-Engineered Machines

Design a custom machine for your specific needs

Unusual applications require unique solutions. We can help you build custom drills for a wide variety of applications. With our considerable experience building custom drills, our engineers can assist you to create machines that can drill on uneven surfaces, in various directions, and more.

We enjoy a challenge! Contact us today for a professional solution for your unique application. Our capabilities include:

- In-house CAD design
- Prototype construction
- Manufacturing of special accessories

Custom Machine Options Include:

✓ Reverse Drilling
✓ Alternative Mounting Configurations
✓ Magnet Variations
✓ Motor Customization
✓ Adjustable Drilling Depth

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✓ Magnet Variations
✓ Motor Customization
✓ Adjustable Drilling Depth

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## Pneumatic Drills and Drive Units

**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
- 6-month warranty

**D-handle Drills**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Motor Power (HP)</th>
<th>Load Speed (RPM)</th>
<th>Reversible</th>
<th>Chuck/Arbor</th>
<th>Drilling Cap. in Steel</th>
<th>Tube Rolling Cap.</th>
<th>Torque Output (ft./lbs.)</th>
<th>CFM at 90 PSI</th>
<th>Length</th>
<th>Feed</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 1266 0010</td>
<td>0.8</td>
<td>650</td>
<td>NO</td>
<td>1/2&quot; Chuck</td>
<td>1/2&quot;</td>
<td>N/A</td>
<td>7 max.</td>
<td>21</td>
<td>12&quot;</td>
<td>N/A</td>
<td>6.7</td>
</tr>
</tbody>
</table>

**Morse Taper Drills w/ Feed Spindle**

- Model 2 2089 0030 with reverse and safety twist throttle

**Pneumatic Hammer Drills**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Motor Power (HP)</th>
<th>Load Speed (RPM)</th>
<th>Reversible</th>
<th>Chuck/Arbor</th>
<th>Drilling Cap. in Steel</th>
<th>Tube Rolling Cap.</th>
<th>Torque Output (ft./lbs.)</th>
<th>CFM at 90 PSI</th>
<th>Length</th>
<th>Feed</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 1310 0010</td>
<td>0.8</td>
<td>650</td>
<td>NO</td>
<td>1/2&quot; Chuck</td>
<td>1/2&quot;</td>
<td>N/A</td>
<td>8 max.</td>
<td>24</td>
<td>12 1/2&quot;</td>
<td>N/A</td>
<td>12</td>
</tr>
</tbody>
</table>

**Pneumatic Pistol Drills**

- Model 2 1261 0010

**Pneumatic Drive 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.)

### Corner Drills and Drives

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

**Pneumatic Corner Drill Model No.**

- Model 2 1806 0010
- Model 2 2104 0030

**Hydraulic Corner Drill Model No.**

- Model 2 1804 0010

**Electric Drill Model No.**

- Model 2 1808 0010
- Model 2 2087 0010

---

*The last four digits of the Model No. identify the type of throttle.*

**Visit our Web site at www.csunitec.com for dimensions**
Pneumatic Drills and Drive Units

**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
- 6-month warranty

**D-handle Drills**

- Morse Taper Drills w/ Feed Spindle
  - Model 212660010
  - See page 64 for Rotary Hammer Drills
  - Model 212610010

**Pneumatic Hammer Drills**

- Model No. 212610030 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 217010030. A 5/8" (15mm) hose is recommended for models 218010030 and 221040030.

**Pneumatic Pistol Drills**

- Model No. 220890030 has a 3/8" NPT air inlet. 1/2" (13mm) hose is recommended. A 7/8" (22mm) hose is recommended for model 220870010.

**Square Drive Accessories**

- #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.**

- 2 18060010 #1 1/4" 1/4" N/A 7 500 0.7 21 12.5 7
- 2 17010030 #2 1/4" 1/4" N/A 35 270 1.8 49 20.9 19
- 2 18010030 #3 1 1/4" 1" N/A 53 260 2.6 63 22.5 25

Model No. 2 1602 0030 has a 1/2" (13mm) hose recommended. All other models have a 3/8" (10mm) hose recommended. A 1/2" (13mm) hose is recommended for model 2 1701 0030. A 3/4" (19mm) hose is recommended for models 2 1801 0030 and 2 2104 0030.

**Nonreversible**

- Model 2 1602 0030
- Model 2 1701 0030
- Model 2 1801 0030

**Reversible**

- Model 2 2104 0030
- Model 2 2087 0010

**Control**

- Flow/Pressure
- Torque
- Output
- Reversibility

**Power**

- Motor Power (HP)
- Load Speed (RPM)
- Torque (ft./lbs.)

**Tube Cap. (in Steel)**

- Steel
- Rolling Cap.
- Tube Cap.
- Reaming (in Steel)
- Drilling Cap. (in Steel)

**Output**

- Power
- Load
- tube.

**Height x Length**

- Weight (lbs.)
- Weight (lbs.)
- Weight (lbs.)

**ATEX**

- ATEXATEX

**Corner Drills and Bridge Reamers**

- Small side-to-side distance for tight spaces
- Self-closing roll throttle
- Built-in oiler for motor
- Ideal for bridge reaming and drilling applications
- 6-month warranty

Please visit www.csunitec.com for dimensions.
**SDS Rotary Hammer Drills**

**Pneumatic and hydraulic: powerful percussion drilling for concrete and masonry**

- SDS Plus or SDS Max models
- 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
- Open center hydraulic standard, closed center optional

**SDS Max – Two Modes of Operation**

**2” bit capacity for drilling concrete and masonry**

**Hammer with Rotation**

Ideal for concrete drilling

**Rotation Only**

For drilling steel and wood (not reversible)

**Air Model 2 2417 0010**

**SDS Max**

**Second handle position**

**SAE #8 port for hydraulic hose connection**

**Hydraulic Pressure Reducing Valves**

PRV Part No. 2 2406 9700 reduces output pressure of standard hydraulic power units from 3000 PSI (200 bar) to 1160 PSI (80 bar). Included with SDS Plus Hydraulic Hammer Drill 2 2426 0010 and SDS Max Hydraulic Hammer Drill 2 2418 0020.

Pressure Reducing Valve Part No. 2 2406 9900 reduces the output pressure of larger-output hydraulic units (i.e. backhoes, large earthmovers, excavators, service trucks, road equipment, etc.) from max. 5075 PSI (350 bar) to 1160 PSI (80 bar) working pressure.

**SDS Plus – Hammer and Drill**

1” bit capacity for drilling concrete and masonry

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

**SDS Rotary Hammer Drills**

- **SDS Plus** up to 1” dia.
- **SDS Max** up to 2” dia.

**Hammer Drill**

- **Model No.**
  - **2 2404 0030**
  - **2 2404 0010**
  - **2 1266 0010**
  - **2 2418 0010**

**Hammer Drill**

- **Model No.**
  - **2 2426 0010**

**Power**

- **Concrete**
  - **1.8 HP**
  - **0.8 HP**
  - **0.7 HP**

**Flow at 90 PSI**

- **2.6-13.2**
- **0.8-13.2**
- **1.8-13.2**

**System**

- **Tool**
  - **Sds Plus**
  - **Sds Max**

**Drill**

- **Bore/ Minute (BPM)**
  - **0-2500**
  - **0-2000**
  - **0-3000**

**Twist (wood)**

- **1/2” dia.**
  - **1” dia.**
  - **3/4” dia.**

**Drill**

- **Air Consumption at 90 PSI**
  - **21 CFM**
  - **21 CFM**
  - **21 CFM**

**Spindle System**

- **1/2”**

**Power**

- **Concrete**
  - **2 HP**
  - **1.8 HP**
  - **1.0 HP**

**Dimensions (inches)**

- **19” x 11” x 7”**
  - **16” x 8” x 4”**
  - **12” x 8” x 4”**

**Weight (lbs.)**

- **7**
  - **11**
  - **15**

**Pneumatic Hammer Drill Model No.**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Bore/ Minute (BPM)</th>
<th>Drill Speed (RPM)</th>
<th>Solid Bit Capacity (Concrete)</th>
<th>Core Bit Capacity (Concrete)</th>
<th>Twist Drill (Wood)</th>
<th>Power at 90 PSI</th>
<th>Air Consumption at 90 PSI</th>
<th>Tool System</th>
<th>Dimensions (inches)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 2404 0010</td>
<td>0-2000</td>
<td>0-950</td>
<td>0-2500</td>
<td>0-2000</td>
<td>0-2500</td>
<td>0-2500</td>
<td>0-2500</td>
<td>0-2500</td>
<td>0-2500</td>
<td>0-2500</td>
</tr>
<tr>
<td>2 2404 0020</td>
<td>0-950</td>
<td>0-2500</td>
<td>0-2500</td>
<td>0-2500</td>
<td>0-2500</td>
<td>0-2500</td>
<td>0-2500</td>
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<td>0-2500</td>
<td>0-2500</td>
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<tr>
<td>2 2417 0010</td>
<td>0-2500</td>
<td>0-2000</td>
<td>0-2500</td>
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<td>0-2500</td>
<td>0-2500</td>
<td>0-2500</td>
<td>0-2500</td>
<td>0-2500</td>
</tr>
</tbody>
</table>

**AirPac Extends life of pneumatic power tools**

- **1-800-700-5919**
- **Visit our Web site at www.csunitec.com**
Woodboring Air Drills, Reversible

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

- 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”

AirPac Extends life of pneumatic power tools

- 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

---

**Woodboring Air Drills**

- **2 2418 0020** Same as 2 2418 0010 above. Includes 2 2406 9700 Pressure Reducing Valve for 2000 PSI.
- **2 2417 0010**
- **2 2404 0030**
- **2 1266 0010**

**Hammer Drill**

- **2 2418 0010**
- **2 2417 0010**
- **2 2404 0010**

---

**SDS ROTARY HAMMER DRILLS**

- Concrete and masonry
- Pneumatic and hydraulic: powerful percussion drilling
- Rotary drilling mode for straight drilling of steel and wood
- Hammer drill holes in concrete, brick and masonry
- SDS Plus or SDS Max models

Optional accessory

Part No. 38632

Control Valve

Pressure from 2000 PSI or 5000 PSI. See above. Available with optional closed center.

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**WOODBORING AIR DRILLS**

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**WOODBORING AIR DRILLS**
PNEUMATIC AND HYDRAULIC NUT RUNNERS

**Model Numbers**

- 6 1055 0075 (with male drive), 6 1055 0010 (female), 6 1014 0075 (with male drive)

- Also available with 3/4" Female Square Drive – use 0075 instead of 0010 in model number.

**Square Drive Accessories**

- Model numbers pictured above (listed from top to bottom): 6 1055 0075, 6 1056 0075 and 6 1055 0099

**Nut Runner**

- 3 6243 0010*

- Also available with 1/2" (3 6242 0099) and 3/4" (3 6242 0075) Male Square Drive

**Hydraulic**

- 3 6339 4910 – 1/4" Male Square Drive with retaining pin

**Nut Runners - High Torque**

Pneumatic and hydraulic: 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

**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"

**Tungsten Carbide-Tipped Dry Cutting Blades**

- Standard equipment includes an impact-resistant suction nozzle and internal chip collector for clean operation

**Dry Cutting Circular Saws – Pneumatic**

- D-handle design with inside trigger
- 7-1/2" max. blade capacity
- Pneumatic power eliminates burn out
- Heavy-duty air-powered circular saw, cuts up to 2-1/2" depth at 90˚ and 1-1/2" depth at 45˚ from stalls

**Hydraulic Metal Cutters**

- Cuts up to 2-1/2" depth at 90˚ and 1-1/2" at 45˚
- Shock-resistant, less vibration
- Thinner than conventional saw blades: LBS = .055" vs. Std. = .073" thickness
- Produces 35% fewer chips

<table>
<thead>
<tr>
<th>Pneumatic Nut Runner Model No.</th>
<th>Square Drive</th>
<th>Stall Torque at 90 PSI (ft-lbs.)</th>
<th>Free Speed (RPM)</th>
<th>Load Speed (RPM)</th>
<th>Power (HP)</th>
<th>CFM at 90 PSI</th>
<th>Side to Center Distance (inches)</th>
<th>Length (inches)</th>
<th>Weight (lbs.)</th>
<th>Air Connection</th>
<th>Hose ID (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 1014 0075*</td>
<td>1/4&quot; M</td>
<td>95</td>
<td>200</td>
<td>100</td>
<td>0.9</td>
<td>46</td>
<td>1</td>
<td>22</td>
<td>11</td>
<td>NPT 3/8</td>
<td>1/2</td>
</tr>
<tr>
<td>6 1014 0099</td>
<td>1/2&quot; M</td>
<td>95</td>
<td>200</td>
<td>100</td>
<td>0.9</td>
<td>46</td>
<td>1</td>
<td>22</td>
<td>11</td>
<td>NPT 3/8</td>
<td>1/2</td>
</tr>
<tr>
<td>6 1055 0075*</td>
<td>1/4&quot; M</td>
<td>405</td>
<td>40</td>
<td>22</td>
<td>0.9</td>
<td>46</td>
<td>1</td>
<td>21</td>
<td>10</td>
<td>NPT 3/8</td>
<td>1/2</td>
</tr>
<tr>
<td>6 1056 0099</td>
<td>1/2&quot; M</td>
<td>405</td>
<td>40</td>
<td>22</td>
<td>0.9</td>
<td>46</td>
<td>1</td>
<td>21</td>
<td>10</td>
<td>NPT 3/8</td>
<td>1/2</td>
</tr>
<tr>
<td>6 1055 0075</td>
<td>1/4&quot; M</td>
<td>133</td>
<td>120</td>
<td>67</td>
<td>0.9</td>
<td>46</td>
<td>1</td>
<td>21</td>
<td>11</td>
<td>NPT 3/8</td>
<td>1/2</td>
</tr>
<tr>
<td>6 1056 0099</td>
<td>1/2&quot; M</td>
<td>133</td>
<td>120</td>
<td>67</td>
<td>0.9</td>
<td>46</td>
<td>1</td>
<td>21</td>
<td>11</td>
<td>NPT 3/8</td>
<td>1/2</td>
</tr>
<tr>
<td>6 1057 0075*</td>
<td>1/4&quot; M</td>
<td>73.5</td>
<td>250</td>
<td>125</td>
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<td>46</td>
<td>1</td>
<td>21</td>
<td>11</td>
<td>NPT 3/8</td>
<td>1/2</td>
</tr>
<tr>
<td>6 1057 0099</td>
<td>1/2&quot; M</td>
<td>73.5</td>
<td>250</td>
<td>125</td>
<td>0.9</td>
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<td>1</td>
<td>21</td>
<td>11</td>
<td>NPT 3/8</td>
<td>1/2</td>
</tr>
<tr>
<td>6 1061 0010</td>
<td>1/2&quot; F</td>
<td>40</td>
<td>40</td>
<td>22</td>
<td>0.9</td>
<td>46</td>
<td>1</td>
<td>21</td>
<td>11</td>
<td>NPT 3/8</td>
<td>1/2</td>
</tr>
</tbody>
</table>

* Also available with 3/4" Female Square Drive – use 0010 instead of 0075 in model number.

<table>
<thead>
<tr>
<th>Hydraulic Nut Runner Model No.</th>
<th>Drive Torque</th>
<th>Free Speed (RPM)</th>
<th>Load Speed (RPM)</th>
<th>Power (HP)</th>
<th>Oil Flow (GPM)</th>
<th>Oil Pressure (PSI)</th>
<th>Side to Center Distance (inches)</th>
<th>Length (inches)</th>
<th>Weight (lbs.)</th>
<th>Connection Quick Couplers</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 6242 0010*</td>
<td>1/2&quot; F</td>
<td>369</td>
<td>40</td>
<td>22</td>
<td>1.6</td>
<td>4 - 13</td>
<td>90-2000</td>
<td>1</td>
<td>20</td>
<td>22</td>
</tr>
<tr>
<td>3 6243 0010*</td>
<td>1/2&quot; F</td>
<td>125</td>
<td>180</td>
<td>90</td>
<td>1.6</td>
<td>4 - 13</td>
<td>1300-2000</td>
<td>1</td>
<td>20</td>
<td>22</td>
</tr>
</tbody>
</table>

* Also available with 1/2" (3 6242 0099) and 3/4" (3 6242 0075) Male Square Drive
Air power ideal for foundries, petrochemical, marine, demolition and fabrication applications

**7-1/2" dia. Heavy-Duty Air Saw**
Cut up to 2-1/2" depth at 90° and 1-1/2" at 45°

- Heavy-duty air-powered circular saw, ideal for wet and dirty conditions
- Pneumatic power eliminates burn out from stalls
- Cuts up to 2-1/2" depth at 90° and 1-1/2" depth at 45°
- 7-1/2" max. blade capacity
- D-handle design with inside trigger and safety lock button to prevent accidental starting

Standard equipment includes rip fence and blade wrench. Blade not included.

<table>
<thead>
<tr>
<th>Order No. 5 1116 0020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Power</td>
</tr>
<tr>
<td>Blade Diameter</td>
</tr>
<tr>
<td>Max. Depth of Cut</td>
</tr>
<tr>
<td>Speed (Free)</td>
</tr>
<tr>
<td>Air Consumption</td>
</tr>
<tr>
<td>Air Connection</td>
</tr>
<tr>
<td>Vibration</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

* The Model 5 1116 0020 saw also accepts 7-1/4" dia. blades.

**9" dia. Air Saw for 90° and 45° Cuts**
Dry cut up to 3-1/4" depth and 3/8" thick steel plate

<table>
<thead>
<tr>
<th>Order No. 5 1115 0020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Power</td>
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<tr>
<td>Blade Diameter</td>
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<tr>
<td>Max. Depth of Cut</td>
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<tr>
<td>Speed (Free)</td>
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<tr>
<td>Air Consumption</td>
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<tr>
<td>Air Connection</td>
</tr>
<tr>
<td>Vibration</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

Standard equipment includes an impact-resistant carrying case and Ultra-thin LBS blade (P/N 722-23060).

**Dry Cutting TCT Saw Blades**
9" Laser Beam Saw (LBS) ultra-thin blade for all-purpose use features:
- Thinner than conventional saw blades; LBS = .055" vs. Std. = .073" thickness
- Shock-resistant, less vibration
- Produces 35% fewer chips

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Teeth</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>722-23060*</td>
<td>60</td>
<td>.055&quot;</td>
</tr>
<tr>
<td>9-1/2&quot; dia., .073&quot; thick – for Model 5 1115 0020</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Standard with Model 5 1115 0020 Pneumatic Blade Saw.

**12-5/8" dia. Air Circular Saw**
Dry cut up to 4-3/4" depth and 3/8" thick steel plate

<table>
<thead>
<tr>
<th>Order No. 5 1117 0020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Power</td>
</tr>
<tr>
<td>Blade Diameter</td>
</tr>
<tr>
<td>Max. Depth of Cut</td>
</tr>
<tr>
<td>Speed (Free)</td>
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<tr>
<td>Air Consumption</td>
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<tr>
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</tr>
<tr>
<td>Weight</td>
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</tbody>
</table>

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DRY CUTTING CIRCULAR SAWS – PNEUMATIC
CS Unitec, Inc. specializes in industrial power tools and safety tools for construction and industry.
Innovation and high quality are synonymous with CS Unitec’s power tools. In 1991, the company invented the first pneumatic portable band saw. CS Unitec has added to its list of industry firsts with the widest range of portable magnetic drills and hand-held concrete core drills. The line also includes surface preparation tools for metal, concrete and masonry, air, electric and hydraulic portable band saws, reciprocating saws, hack saws, nut runners, rotary hammer drills, rolling motors, non-sparking safety tools, portable mixers and dust extraction vacuum systems.

For tool specifications and ATEX and Ex Zone information, visit www.csunitec.com.

Call 1-800-700-5919 or 203-853-9522 to request any of the catalogs shown.