



UNITEC

ELECTRIC • PNEUMATIC • HYDRAULIC



**Hole Cutting
Twist Drilling
Tapping
Reaming
Countersinking**



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

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

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

CS Unitec is the industry leader in:

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

We offer:

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

Special Features

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

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



EXTRA SAFETY



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



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



LONGER SERVICE LIFE

TEMPTEC Magnet

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



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

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



Special Features



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

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



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

Optional Power Assist provides delayed torque transfer, decreasing the load on both the cutter and machine. This allows the machine to maintain maximum RPM under full load. See page 21 for more information.



ATEX Approved

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

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Warranty

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

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

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



Cutter capacity
2 1/16" dia.

AIRBOR™ AB-4300-2 and AB-4300-2R

Pneumatic power for hazardous environments

ATEX Approved

Motor and magnet are powered completely by compressed air



Model AB-4300-2

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

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



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

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



Cutter capacity up to 2 1/16" dia.

Twist drill capacity up to 1/2" dia.

See pages 18-24 for Annular Cutters and Accessories.

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

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

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

AirBor AB-4000 Magnetic Drill

**Air Drill Motor
and Fail-safe
Magnet**



Pneumatic power for hazardous environments – No Electricity!

The AirBor AB-4000 is inherently safer than electromagnetic drills in hazardous atmospheres and wet environments where electricity requires “hot permits” or special precautions. It is designed for use in petrochemical plants, offshore oil and gas facilities, mining, shipyard, marine and processing plants. The motor is air operated and the magnet is mechanical.

- **Fail-safe, mechanically operated permanent magnet** will not disengage with the loss of air supply, and the drill motor will not turn on without magnet engaged.
- **Magnet** has holding strength of 1430 lbs.
- **Lightweight and portable**, only 29 lbs.
- **2” cutter capacity**
- **Integrated coolant system** through the arbor lubricates cutter, reducing risk of sparks.
- Includes carrying case, allen keys, safety guard, oil bottle and cutting oil
- Optional 1/2” chuck, part no. IBK-18

Model AB-4000

Motor Power (Pneumatic)	.85 HP
Hole Capacity	2” diameter
Twist Drill Capacity	1/2” diameter
No Load Speed	400 RPM
Air Consumption @ 90 PSI	33 CFM
Magnet Base Size	19-3/4”H x 6-1/4”L x 12”W
Magnetic Force (1” Plate)	1430 lbs.
Arbor Bore	3/4”
Automatic Lubrication	Included
Stroke Length	4-3/4” (with cutter)
Optional 1/2” Chuck	Part No. IBK-18 (Stroke: 2-1/4”)
Weight	29 lbs.



**1 Air Magnetic Drill
AB-4000**



*Note: Specifications subject to change.
Refer to Owner's Manual for
operating instructions.*

The AB-4000's fail-safe magnet will not disengage in situations where the air supply is lost. Additionally, the drill motor will not turn on without magnet engaged.

1. Magnet and drill motor off.
2. Magnet engaged.
3. Magnet engaged and drill motor on.

Note that while the motor is running, the magnet cannot be disengaged. When the cut is complete, stop the motor by moving the lever to the right.

CS UNITEC, Inc.

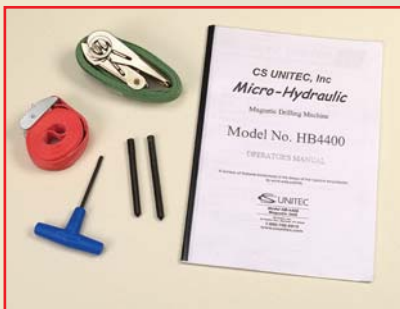
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HB-4400

Hydraulic for marine and construction – works underwater



- Ideal for industrial, construction, marine and mining applications
- Hydraulic motor safe for underwater use
- Drill structural steel and other metals
- Stainless steel construction resists corrosion
- Manually operated permanent magnet with ratchet control has holding strength of 1300 lbs.
- Lightweight, rugged machine for cutting up to 2¹/₁₆" diameter holes with Annular Cutters
- Easily converts to a standard drill press with a chuck for conventional twist drills up to 1/2" dia.
- Includes automatic lubrication



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

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



Cutter capacity up to 2¹/₁₆" dia. stroke: 3³/₄"

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

See pages 18-24 for Annular Cutters and Accessories.

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

PORTABLE HYDRAULIC MAGNETIC DRILLS