

# **VEVOR<sup>®</sup>**

## **TOUGH TOOLS, HALF PRICE**

Technical Support and E-Warranty Certificate [www.vevor.com/support](http://www.vevor.com/support)

### **MAGNETIC BASE DRILL**

**MODEL:40H**

We continue to be committed to provide you tools with competitive price.

"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

# VEVOR<sup>®</sup>

## MAGNETIC BASE DRILL

**MODEL: 40H**



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### NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

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**[www.vevor.com/support](http://www.vevor.com/support)**

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.



## DESCRIPTION OF THE SYMBOLS

The symbols used in this manual are intended to alert you of the possible risks. Please fully read the safety signs and instructions below. The warnings themselves do not prevent the risks and can not be a substitute for proper methods of avoiding accidents.



This symbol, placed before a safety comment, indicates a kind of precaution, warning, or danger. Ignoring this warning may lead to an accident. To reduce the risk of injury, fire, or electrocution, please always follow the recommendations shown below.



**WARNING** - To reduce the risk of injury, users must read the instruction manual carefully.

Please refer to the appropriate section in this user manual before any operation.



**WARNING:** Be sure to wear eye protectors, dust masks, and gloves when using this product.



This product is subject to the provision of European Directive 2012/19/EC. The symbol showing a crossed-out wheeled bin indicates that the product requires separate refuse collection in the European Union. This symbol applies to the

product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste but must be taken to a collection point for recycling electrical and electronic devices.



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## SAFETY WARNINGS



**WARNING:** Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.



### General Power Tool Safety Warnings - Work area safety

- a) Keep the work area clean and well lit. Cluttered or dark areas invite accidents.
- b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- d) Before working to tie the cuffs, women need to wear a good woman hat, long hair hidden in the hat. It is strictly prohibited to wear gloves. When the construction is completed, the switch must be turned off before leaving.



### General Power Tool Safety Warnings - Electrical safety

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do

not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce the risk of electric shock.

b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

f) If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. Use of an GFCI reduces the risk of electric shock.



#### General Power Tool Safety Warnings - Personal safety

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.

c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

- f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
- h) Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.
- I) This product is not a toy. Keep it out of reach of children.
- J) Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.
- K) Do not lay the tool down until it has come to a complete stop. Moving parts can grab the surface and pull the tool out of your control.
- L) When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
- M) Do not leave the tool unattended when the Battery Pack is connected. Turn off the tool, and remove the Battery Pack before leaving.
- N) People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.
- O) The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator

#### Power tool use and care

- a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

- c) Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e) Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
- h) Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.
- i) Please confirm the number of voltage volts before use. The working voltage is not more than  $\pm 5\%$ . If it is more than that, it will cause motor burning and leakage accidents.
- j) During construction, please pay attention to avoiding water entering the motor or blocking the ventilation hole, so as not to reduce the heat dissipation performance of the motor and cause the motor to burn down.
- k) In the steel plate construction, please pay attention to the safety of the lower layer of personnel and goods, iron beam and column drilling, and pay attention to the safety of the structure of the building.
- L) In suspension operation, the safety belt must be tightly tied and the magnetic drill fixed to prevent sudden power failure or power failure caused by accidents.
- M) Do not cut the power cord or change the plug yourself. This will cause the machine to burn out.

## Service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained. In any case, it should be started in no-load state. It is forbidden to start with load, so as to avoid damage to the machine. Please pay attention to the stability of the magnetic drill when working at high altitude, so as to prevent the machine from falling down.

Ensure that the ground cable is grounded reliably.

When moving, the magnetic drill should be lifted to prevent damage to the magnetic base.

In the maintenance must use the original parts, in order to make the machine to achieve the best use state.

Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact VEVOR for a replacement.



### Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

- a. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
- b. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
- c. Wear suitable gloves to reduce the vibration effects on the use.
- d. Use tools with the lowest vibration when there is a choice.
- e. Include vibration-free periods each day of work.
- f. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.



g. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.



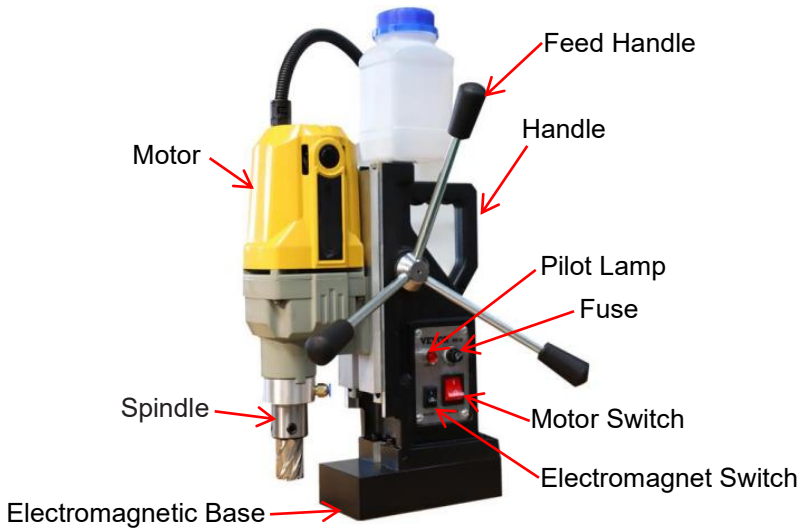
### Grounding Safety

TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING: check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the charger. Do not use the charger if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

## MODEL AND PARAMETERS

Model	40H
Input	AC 220-240V~ 50/60Hz(EUR/AUS) AC 120V~ 60Hz(US)
Max. Power	1200W
Speed	880r/min
Magnetic Attraction	11000N
Max. Hollow Drilling	Φ40mm(Depth:50mm)
Twist Drilling	Φ1.5-Φ13mm(Depth:100mm)
Trip	180mm
Fuse	10A
Direction Of Rotation	Forward

## STRUCTURE DIAGRAM



### Accessories List

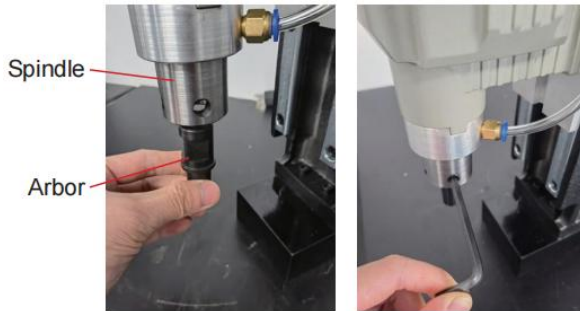
6 Pieces	11 Pieces
<p>Φ10mm</p>	<p>Φ10mm</p>

**Drill Bits(6 Pieces):** 12\*30,16\*30,18\*30,20\*30,24\*30,26\*30mm

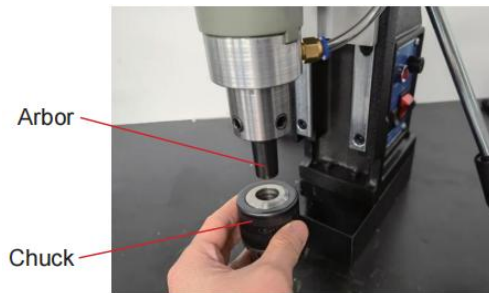
**Drill Bits(11 Pieces):** 12\*30,13\*30,15\*30,16\*30,18\*30,20\*30,21\*30,23\*30,24\*30, 26\*30,27\*30mm

## TWIST DRILL BIT INSTALLATION

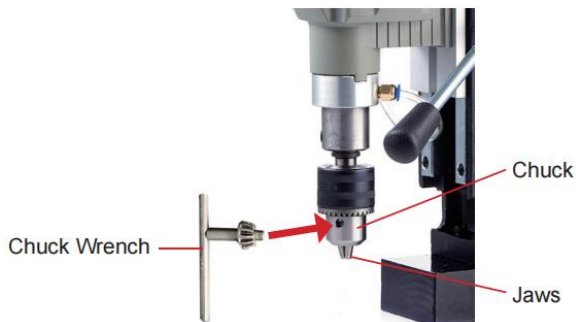
1. Insert the arbor into the spindle and secure it by attaching the set screws and tightening them with the M5 hex wrench.



2. Slide the chuck onto the arbor until it is locked into place.



3. Loosen the chuck's jaws by inserting the chuck wrench into either hole on the chuck and turning it counterclockwise.

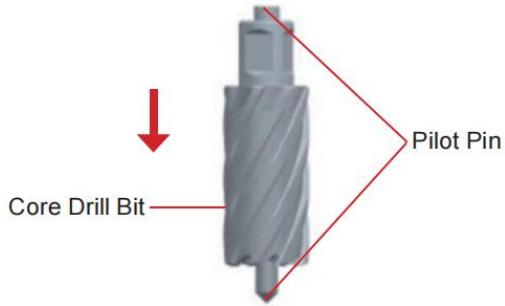


4. Mount your twist drill bit (not included) into the chuck and turn the chuck wrench clockwise until the bit is locked in place.

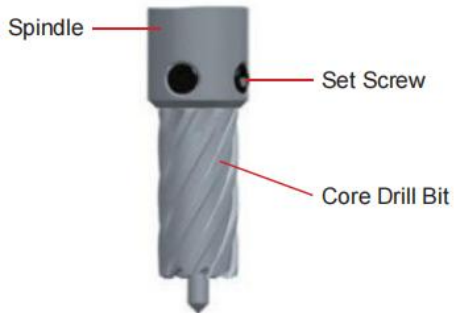
**WARNING: ALWAYS** remove adjustment wrenches before use.

## ANNULAR CUTTER/CORE DRILL BIT INSTALLATION

1. Insert the pilot pin into the top hole of your core drill bit (not included).



2. Fit the bit onto the spindle, locking it in place by attaching the set screws and tightening them with the M5 hex wrench.



**WARNING: ALWAYS** remove adjustment wrenches before use.

## DRILLING OPERATION TIPS

1. Locate with a pilot pin first within the center position marked or marker.
2. To start drilling, you must press the annular cutter slowly, allowing the cutter to touch the steel plate carefully. The feed rate should be reduced by 1/3 when the completion of a drilled hole is near.

**NOTE:** The annular cutter should always be in the cooling state during cutting. The best cooling method is with cooling device. Flow of the coolant should not be less than 47cc/min.

For those materials which create a large amount of fine powder, such as cast iron and cast copper, coolant can not be used. Compressed air can be used instead for chip removal.

3. Pay attention to whether chips are winding. Withdraw the cutter and remove the chip to avoid cutter damage due to squeezing.
4. In the case of the slug sticking in the inner bore, adjust the bit blade by tapping cutter body with a metalloid bar till the slug drops off. Never use hard objects to tap the edges of teeth to prevent damage to the sharpening edges.

**5. Slug sticking occurs due to the following :**

<b>Rouble Spots</b>	<b>Solution</b>
Edges of teeth dull or damage.	Replace with a new cutter.
Gap of slideway is too large.	Reduce gap of slideway.
Cooling is not sufficient.	Increase the flow of coolant.
Feeding too large or too hard when drilling through steel plates.	Slow down.
Spring of the arbor breaks.	Replace new spring.

6. In order to avoid the influence of magnetic suction, clear out the iron filings and clutter at the bottom of the magnetic base before drilling.

## TROUBLE SHOOTING INSTRUCTION

Problem	Reason	Solution
Magnetic holder has no suction.	Poor switch contact.	Repair switch.
	The power is off.	Repairing the power
	The fuse is blown out.	Replace the fuse
	Electromagnet short circuit or burn out.	Repair or replace the magnetic base.
	It is not adsorbed on steel parts.	Change or thicken the adsorption surface (thickness > 15mm).
The machine won't work after the power is on.	Poor switch contact.	Repair switch.
	Loose plug.	Connecting the power
	The brush does not contact the commutator.	Replace the brush.
Magnetic seat suction is weak.	The adsorbed workpiece is too thin.	Change or thicken the adsorption surface (thickness > 15mm).
	Small adsorbable surface.	Change the adsorption surface or temporarily weld the thick adsorption surface.
Elliptical holes appear in the drilling holes.	The vibration caused the fastener to loosen.	Tighten the fastener after correcting the verticality.
	The drill cuts only on one	Regrinding bit.
	There is debris on the adsorption surface.	Remove clutter.

## MAINTENANCE AND STORAGE

**NOTE: Please remove the plug before maintenance.**

1. After each use, clean the bottom of the magnetic seat drill and keep it properly.
2. Please butter the track in time when the slide is not smooth.
3. Please check the electrical protection device regularly.
4. Whether grounding is reliable.
5. Please check it in time during the rainy season.

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