

OTMT

DRILL BIT SHARPENER



ITEM NO. 87-145-101
MODEL NO. DBG26D

Version date: 08/12/2011

Please Read These Instructions Before Operating Your Machine
Contents Subject To Change Without Notice

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INTRODUCTION

Features of the Drill Bit Sharpener

- Quickly and accurately sharpens a full range of common bits
- Uses a replaceable diamond grinding wheel
- Powerful DC motor
- Bearing shaft and locking unit
- Easy to operate, no experience necessary
- CBN Diamond Wheel is suitable for grinding HSS material.
- Optional SDC Diamond Wheel is suitable for grinding carbide steel material.

Safety Instructions

1. Always follow basic safety precautions when using electric tools, machines or equipment to reduce the risk of fire, electric shock and personal injury.
2. Make sure your work space is clean, uncluttered and has adequate lighting.
3. Do not use drill bit sharpener in damp or wet locations and never expose it to rain.
4. Do not operate near flammable gases or liquids.
5. Do not attempt to sharpen inappropriate objects.
6. Always keep small children away from the work area.
7. Avoid bodily contact with grounded surfaces such as pipes, radiators, ranges and refrigerator enclosures to protect yourself from electric shock.
8. Stay alert at all times. Never operate the drill bit sharpener if you are tired, drowsy, or under the influence of alcohol or drugs. Read warning labels on prescription medication to determine if your judgment or reaction time might be impaired.
9. Do not wear loose clothing or jewelry as they can be caught in moving parts.
10. Wear restrictive hair covering if necessary and always use eye and ear protection.
11. Maintain proper footing and balance at all times.

Before Operating the Drill Bit Sharpener

1. Make sure the switch is in the OFF position when the machine is not in use and before you plug it into an electrical outlet. Do not use if any switch does not properly turn on/off.
2. Check for any damaged or defective parts. Any part that appears damaged or defective should be carefully inspected to determine if it is operating properly and can perform its intended function. Any part that is damaged or defective should be repaired or replaced by a qualified technician.
3. Check the alignment and binding of all moving parts, the stability of the mounting surface and chuck, and any other condition that may affect proper operation or compromise safety.

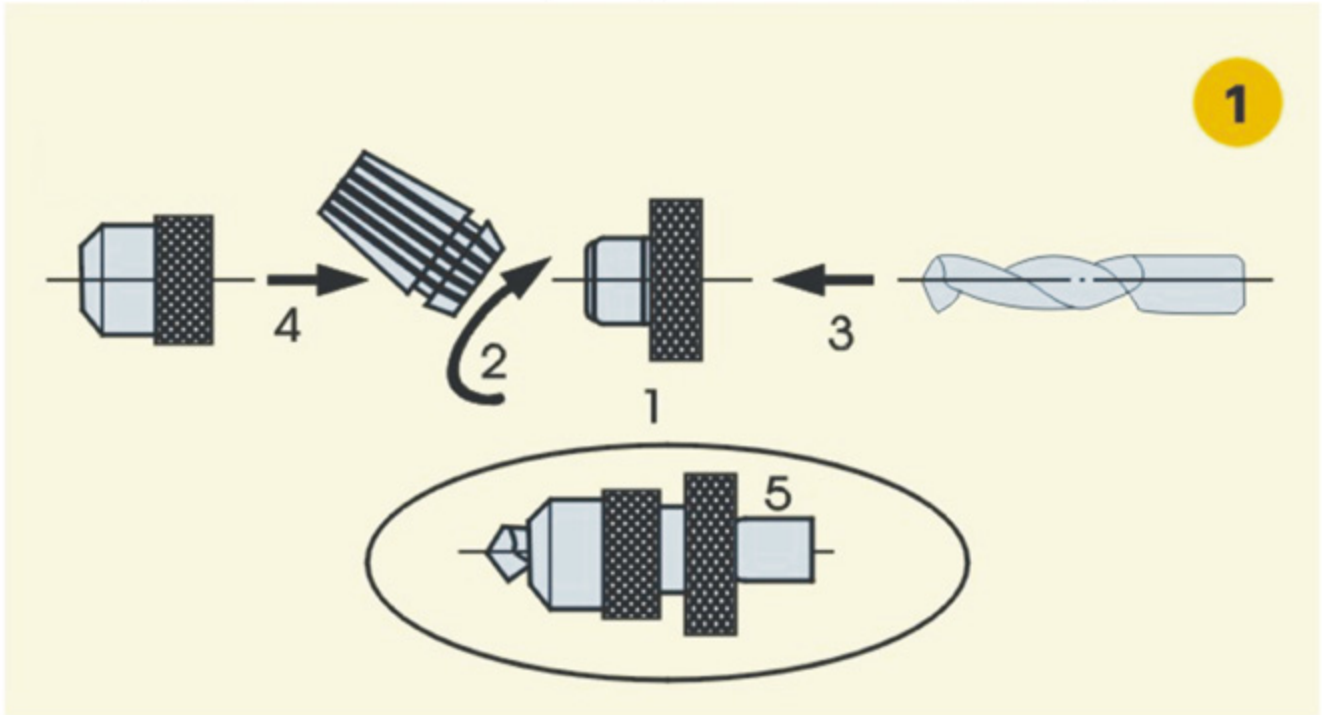
Specifications

Grinding Drill Diameter	0.315"–1.18" (8–30mm)
Point Angle	90° ~ 135°
Speed	4000 RPM
Power	AC110V
Motor	0.60 HP (450W)
Included Diamond Wheel	CBN
Included ER40 collets (14)	12/13, 13/14, 14/15, 15/16, 16/17, 17/18, 18/19, 19/20, 20/21, 21/22, 22/23, 23/24, 24/25, 25/26
Wrench	5mm Hex. Wrench
Weight	59.4 lbs. (27kg)

HOW TO OPERATE

Assemble the chuck (Figure 1)

Put drill bit, spring collet and the chuck parts together as shown in steps 1 through 4.



Set the position of the drill bit (Figure 2)

Adjust dial to the diameter of the drill bit, then insert the chuck into the hole, turn right and lock in place. Take it out and check to see if the drill bit and spring collet are parallel. If not, repeat the process.



Grind the point angle (Figure 3)

Turn the machine ON, then insert the chuck into the sharpening hole (at side) until the bit point slightly touches the wheel. Next, turn the chuck back and forth several times until you no longer hear the grinding sound. Take the chuck out, turn 180 degrees and repeat the same process.



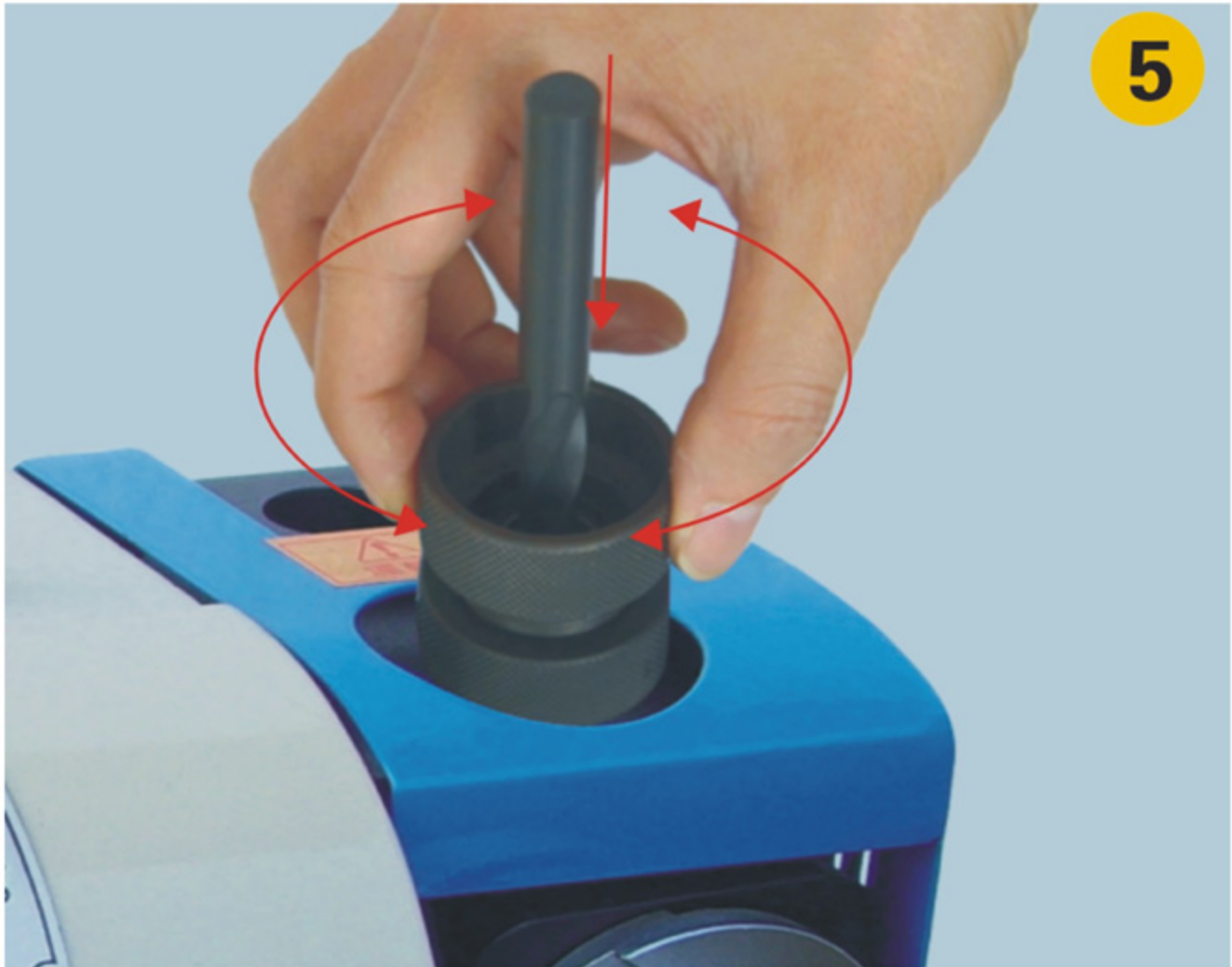
Grind the lip relief angle (Figure 4)

Turn machine ON and insert the chuck into the sharpening hole (at top) until the bit point slightly touches the wheel. Then, turn the chuck back and forth several times until you no longer hear the grinding sound. Take the chuck out, rotate 180 degrees and repeat the same process.



Grind the front cutting lip (Figure 5)

Turn the machine to ON, insert the chuck into the sharpening hole (at top) until the bit point slightly touches the wheel. Turn the chuck clockwise until you no longer hear the grinding sound. Take the chuck out, rotate it 180 degrees and repeat the process.



HOW TO CHANGE THE WHEEL

Loosen the knob screw, open the wheel cover, and then loosen the wheel center screw and the fan in the spindle. You can now remove the old wheel. Before setting the new wheel in place, clean the spindle and surfaces inside the wheel case. Replace the center screw and fan, and then tighten. Close the cover and tighten the knob screw.

CLEANING AND MAINTENANCE

Before and after each use, use a high quality air blowgun to clean the whole unit, especially the grinding holes.



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