

OTMT

DRILL BIT SHARPENER



ITEM NO. 87-145-100
MODEL NO. DBG13D

Version date: 10/09/2012

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

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INTRODUCTION

SOME SAFETY ISSUES

Common sense and caution are factors which can't be built into any product. These factors must be supplied by the operator.

PLEASE REMEMBER:

1. When using electric tools, machines or equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury.
2. Keep work area clean. Cluttered areas invite injuries.
3. Consider work area conditions. Don't use machines or power tools in damp, wet, or poorly lit locations. Don't expose equipment to rain, keep work area well lit. Don't use tools in the presence of flammable gases or liquids.
4. Keep children away, all children should be kept away from the work area.
5. Guard against electric shock. Prevent bodily contact with grounded surfaces such as pipes, radiators, ranges, and refrigerator enclosures.
6. Stay alert. Never operate if you are tired.
7. Don't operate the product if under the influence of alcohol or drugs. Read warning labels on prescriptions to determine if your judgment or reaction might be impaired.
8. Don't wear loose clothing or jewelry as they can be caught in moving parts.
9. Wear restrictive hair covering to contain long hair.
10. Use eye and ear protection.
11. Keep proper footing and balance at all times.
12. Don't reach over or across running machines.

BEFORE OPERATING

1. Be sure the switch is OFF when not in use and before plugging in.
2. Don't attempt to use inappropriate attachments in an attempt to exceed the tools capacity. Approved accessories are available from the dealer or machine maker.
3. Check for damaged parts, before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function.
4. Check for alignment and binding of all moving parts, broken parts or mounting fixtures and any other condition that may affect proper operation. Any part that is damaged should be entirely repaired or replaced by a qualified technician.
5. Do not use the tool if any switch does not turn off and on properly.

FEATURES

- Sharpening accurately at lower cost.
- Easy to operate, no experience necessary.
- Uses a diamond wheel and DC motor.
- Bearing shaft and locking unit.

APPLICATION

- For point angles from 90° ~135°
- For lip relief angle

SPECIFICATION

Grinding Drill Dia.	5/64" – 1/2" (2–13mm)
Point Angle	90° ~ 135°
Speed	5300 RPM
Power	AC 110V
Motor	180W
Diamond wheel	CBN200#
Spring Collet (ER20)	0.12" – 0.51" (3–13mm)
Wrench	5mm Hex. Wrench
Weight	10kgs (22 lbs)

OPERATION

- Assemble the fixture (Fig 1)

Put drill, spring collet and the fixture parts together as the drawing steps 1 to 4, the grouped fixture is as step 5.

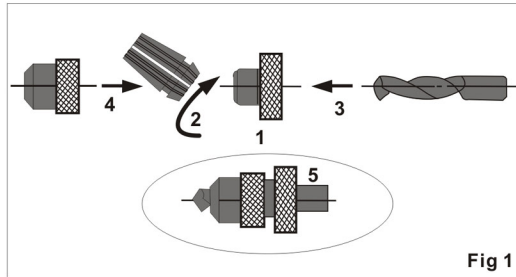


Fig 1

- Set the position of the drill bit (Fig 2)

Adjust the dial to the diameter of the drill bit, and then insert the fixture into the hole turn the fixture to the right and lock it. Take it out and check if the drill bit and the spring collet are parallel. If not, do it again.

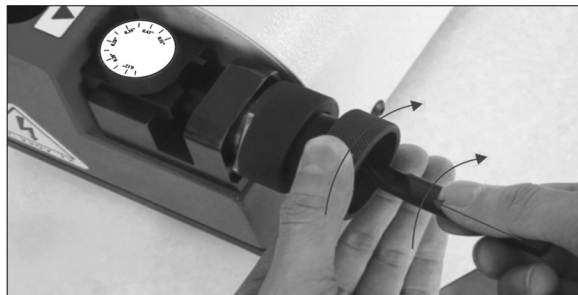


Fig 2

- Grind the point angle (Fig 3)

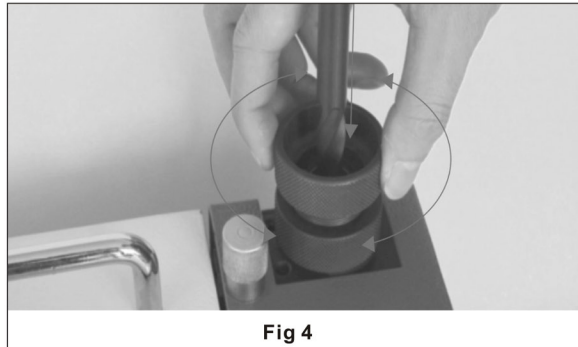
Start the machine and then insert the fixture into the sharpening hole (at side) until the bit point slightly touches the wheel. Then turn the fixture back and forth several times until the grinding sound disappears. Take it out and turn 180 degrees, do the same.



Fig 3

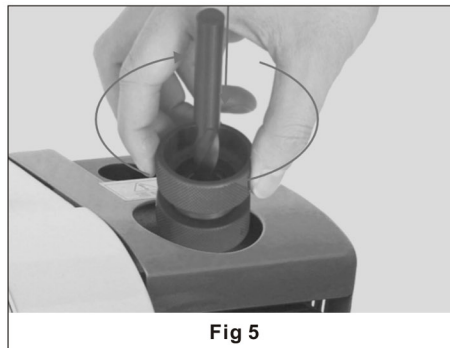
- Grind the lip relief angle (Fig 4)

Start the machine and then insert the fixture into the sharpening hole (at top) until the bit point slightly touches the wheel. Then turn the fixture back and forth several times until the grinding sound disappears. Take it out and turn 180 degrees, do the same.



- Grind the point thinning (Fig 5)

Start the machine and then insert the fixture into the sharpening hole (at top) until the bit point slightly touches the wheel. Then turn the fixture right clock wise until the grinding sound disappears. Take it out and turn 180 degrees, do the same.



CHANGE THE WHEEL

Loosen the knob screw, open the wheel cover, and then loosen the wheel center screw and the fan in the spindle and take them out. After that, you can take out the old wheel. Clean the spindle and the surfaces inside the wheel case before putting the new wheel in, then put back the new wheel, center screw, the fan and then tighten them. Close the cover, tighten the knob screw.

CLEAN AND MAINTENANCE

Please clean the whole unit with an air blow gun, especially the holes before and after use.



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