

DWT TBM05-16

DWT Bench Drill TBM05-16 User Manual

Model: TBM05-16 | 16mm | 550W | 220V

IMPORTANT SAFETY INFORMATION

Before operating the DWT Bench Drill TBM05-16, please read and understand all safety warnings and instructions. Failure to follow these instructions may result in electric shock, fire, and/or serious injury. Keep this manual for future reference.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves.
- Ensure the work area is clean, well-lit, and free from obstructions.
- Secure the workpiece firmly before drilling to prevent movement.
- Never operate the drill with damaged cords or plugs.
- Disconnect the power supply before making any adjustments, changing accessories, or performing maintenance.
- Keep hands and fingers away from the rotating drill bit.

PRODUCT OVERVIEW

The DWT Bench Drill TBM05-16 is a robust and reliable benchtop drill press designed for precision drilling tasks. It features a powerful 550W motor, variable speed control, and a 16mm drilling capacity, making it suitable for various materials and applications.



Figure 1: DWT Bench Drill TBM05-16. This image shows the complete bench drill unit, highlighting its compact design and key components such as the motor housing, drill head, work table, and base.

SETUP AND ASSEMBLY

Carefully unpack all components and ensure all parts are present before beginning assembly. Refer to the included parts list for verification.

1. **Mounting the Base:** Secure the drill press base to a sturdy workbench using appropriate bolts and washers (not included). Ensure the base is stable and level.
2. **Attaching the Column:** Insert the column into the base and tighten the securing bolts.
3. **Installing the Head Assembly:** Carefully slide the head assembly onto the top of the column. Align the keyway and secure it with the provided set screws.
4. **Mounting the Work Table:** Slide the work table assembly onto the column below the head assembly. Adjust its height and position as needed, then lock it in place with the table locking handle.

- 5. **Installing the Chuck:** Clean the tapered spindle and the inside of the chuck. Place the chuck onto the spindle and firmly tap it into place with a rubber mallet.
- 6. **Power Connection:** Connect the drill press to a grounded 220V AC power outlet.

OPERATING INSTRUCTIONS

1. Preparing for Operation

- **Select Drill Bit:** Choose the correct drill bit for your material and desired hole size. Insert the drill bit into the chuck and tighten it securely using the chuck key.
- **Adjust Table Height:** Loosen the table locking handle and adjust the work table to the desired height. Ensure there is sufficient clearance for the workpiece and drill bit. Tighten the locking handle.
- **Secure Workpiece:** Place the workpiece on the work table. Use clamps or a drill press vise to firmly secure the workpiece to prevent it from rotating or shifting during drilling.
- **Set Depth Stop:** Adjust the depth stop to control the drilling depth. This prevents drilling deeper than intended.
- **Adjust Speed:** The DWT TBM05-16 features variable speed. Adjust the speed according to the material being drilled and the drill bit size. Generally, harder materials and larger bits require slower speeds.

2. Drilling Procedure

- 1. Ensure all safety precautions are observed.
- 2. Turn on the drill press using the power switch.
- 3. Slowly lower the drill bit into the workpiece using the feed handle. Apply steady, even pressure.
- 4. Allow the drill bit to cut through the material. Do not force the drill.
- 5. Once the desired depth is reached (or the hole is complete), retract the drill bit from the workpiece.
- 6. Turn off the drill press and wait for the drill bit to come to a complete stop before removing the workpiece or making any adjustments.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your DWT Bench Drill TBM05-16. Always disconnect the power supply before performing any maintenance.

- **Cleaning:** After each use, clean the drill press to remove dust, chips, and debris. Use a brush or vacuum cleaner. Do not use solvents that may damage plastic parts.
- **Lubrication:** Periodically apply a light coat of machine oil to moving parts such as the column, quill, and table adjustment mechanisms to ensure smooth operation and prevent rust.
- **Chuck Maintenance:** Keep the chuck jaws clean and free of debris. If the chuck becomes stiff, clean it thoroughly and apply a small amount of lubricant.
- **Belt Tension:** Check the drive belt tension periodically. Adjust if necessary according to the instructions in the full service manual (if applicable).
- **Power Cord Inspection:** Regularly inspect the power cord for any signs of damage, cuts, or fraying. Replace immediately if damaged.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Drill does not start	No power supply; Faulty power switch; Motor overload.	Check power connection and circuit breaker; Test power switch; Allow motor to cool down.
Excessive vibration	Loose drill bit; Unsecured workpiece; Loose mounting bolts; Worn bearings.	Tighten drill bit in chuck; Secure workpiece firmly; Check and tighten all mounting bolts; Contact service for bearing replacement.
Drill bit binds or stalls	Incorrect feed pressure; Dull drill bit; Incorrect speed setting; Workpiece not secured.	Reduce feed pressure; Sharpen or replace drill bit; Adjust speed for material; Secure workpiece.
Inaccurate drilling	Loose chuck; Loose column or head assembly; Worn drill bit.	Ensure chuck is tight; Check and tighten column/head assembly bolts; Replace worn drill bit.

SPECIFICATIONS

Model:	TBM05-16
Brand:	DWT
Power Input:	550 W
Voltage:	220 V
Drilling Capacity:	16 mm
Maximum Chuck Size:	0.5 Inches (approx. 12.7 mm)
Item Weight:	35 Kilograms
Product Dimensions (L x W x H):	10 x 37 x 20 cm
Material:	Metal
Special Features:	Electric Brake, Variable Speed, Adjustable Torque, Quick Release Chuck

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official DWT website. Keep your purchase receipt as proof of purchase.

DWT Official Store: [Visit DWT Store on Amazon](#)

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