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- › Yato /
- › Yato YT-6045 Diamond Drill Bit 68 mm Instruction Manual

Yato YT-6045

Yato YT-6045 Diamond Drill Bit 68 mm Instruction Manual

[Instructions](#) [Introduction](#) [Safety Instructions](#) [Setup](#) [Operating](#)
[Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Yato YT-6045 Diamond Drill Bit 68 mm. Please read these instructions carefully before operating the tool and retain them for future reference. This diamond drill bit is designed for precise drilling in various hard materials.



Image 1.1: Yato YT-6045 Diamond Drill Bit. This image displays the diamond drill bit, highlighting its robust construction and diamond-coated cutting edge, suitable for drilling hard materials.

2. SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of injury when using power tools and accessories.

- **Wear Personal Protective Equipment (PPE):** Always wear safety glasses, hearing protection, and appropriate gloves. A dust mask is recommended when drilling materials that produce fine dust.
- **Secure Workpiece:** Ensure the material being drilled is securely clamped or held to prevent movement during operation.
- **Use Correct Speed:** Operate the drill at the recommended speed for diamond drill bits (maximum 850 RPM for this model) to prevent overheating and premature wear.
- **Cooling:** Diamond drill bits generate significant heat. Use water or a suitable coolant to keep the bit and workpiece cool during drilling.
- **Inspect Before Use:** Before each use, inspect the drill bit for any damage, cracks, or excessive wear. Do not use a damaged drill bit.
- **Maintain Control:** Always maintain a firm grip on the drill and be aware of your surroundings.
- **Disconnect Power:** Always disconnect the power tool from the power source before changing

accessories or performing maintenance.

3. SETUP

Proper setup ensures safe and efficient drilling.

1. **Select Appropriate Drill:** Use a drill with a chuck compatible with the Morse taper shank of the YT-6045 drill bit. Ensure the drill can operate at the required speed and has sufficient power.
2. **Insert Drill Bit:** Open the drill chuck and insert the Morse taper shank of the diamond drill bit fully. Tighten the chuck securely to prevent the bit from slipping during operation.
3. **Prepare Work Area:** Ensure the work area is clean, well-lit, and free from obstructions. Set up a system for water cooling if required for the material.
4. **Test Run:** Before drilling into the actual workpiece, perform a brief test run at a low speed to ensure the drill bit is properly seated and runs true.

4. OPERATING INSTRUCTIONS

Follow these steps for optimal performance and safety when using the Yato YT-6045 Diamond Drill Bit.

1. **Mark Drilling Location:** Clearly mark the center of the hole to be drilled on the workpiece.
2. **Start Drilling:** Begin drilling at a low speed with light pressure. This helps to create a starting groove and prevents the bit from wandering.
3. **Apply Coolant:** For most hard materials (e.g., tile, glass, stone), continuous water cooling is crucial. Apply water directly to the drilling area to dissipate heat and flush away debris.
4. **Increase Speed and Pressure:** Once a groove is established, gradually increase the drill speed up to the recommended maximum (850 RPM) and apply steady, moderate pressure. Avoid excessive force, as this can damage the bit or the workpiece.
5. **Maintain Consistent Pressure:** Keep the drill bit perpendicular to the workpiece throughout the drilling process.
6. **Clear Debris:** The coolant will help clear debris. If drilling dry (only for specific materials and with caution), periodically lift the bit to clear dust.
7. **Finish Drilling:** As the drill bit approaches the end of the material, reduce pressure to prevent chipping or breakout.
8. **After Use:** Turn off the drill and allow the bit to cool before handling.

5. MAINTENANCE

Proper maintenance extends the life of your diamond drill bit.

- **Cleaning:** After each use, clean the drill bit thoroughly to remove any debris or residue. Use a brush and water, then dry completely to prevent rust.
- **Storage:** Store the drill bit in a dry place, preferably in its original packaging or a protective case, to prevent damage to the diamond coating.
- **Inspection:** Regularly inspect the diamond coating for wear. While diamond bits are durable, they will eventually wear down. Replace the bit when its cutting efficiency significantly decreases.

6. TROUBLESHOOTING

Here are some common issues and their solutions:

Problem	Possible Cause	Solution
Slow drilling or no progress	Insufficient pressure, incorrect speed, lack of coolant, worn bit	Increase pressure, adjust speed, apply coolant, replace bit if worn
Bit overheating	Lack of coolant, excessive speed, too much pressure	Ensure continuous cooling, reduce speed, reduce pressure
Bit wandering at start	Starting at high speed, no pilot hole/guide	Start at low speed with light pressure, use a drilling guide if available
Chipping around hole	Excessive pressure at exit, drilling too fast	Reduce pressure and speed as bit exits material

7. SPECIFICATIONS

Technical details for the Yato YT-6045 Diamond Drill Bit 68 mm:

- **Model:** YT-6045
- **Diameter:** 68 mm
- **Material:** Diamond
- **Maximum Rotation Speed:** 850 RPM
- **Weight:** 690 g
- **Item Dimensions (L x W x H):** 6.8 x 7.4 cm
- **Shank Type:** Morse Taper
- **Tool Flute Type:** Spiral
- **Point Style:** Diamond Point
- **Number of Flutes:** 1

8. WARRANTY & SUPPORT

For information regarding warranty coverage, product support, or spare parts availability for your Yato YT-6045 Diamond Drill Bit, please refer to the official Yato website or contact your local Yato distributor. Keep your purchase receipt as proof of purchase.