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Bosch BM2020

BOSCH BM2020 3/4" x 13" Fast Spiral Rotary Masonry Drill Bit Instruction Manual

Model: BM2020 | Brand: Bosch

1. INTRODUCTION

This manual provides instructions for the proper use and maintenance of the BOSCH BM2020 3/4" x 13" Fast Spiral Rotary Masonry Drill Bit. This drill bit is engineered for efficient drilling in masonry, brick, and block materials when used with corded or cordless rotary drills. It features a single-flute design for optimized material removal and a carbide tip for enhanced durability.



Figure 1: The BOSCH BM2020 3/4" x 13" Fast Spiral Rotary Masonry Drill Bit.

2. SAFETY INFORMATION

Always prioritize safety when operating power tools and accessories. Failure to follow these safety guidelines may result in injury or damage to the tool or workpiece.

- **Wear Personal Protective Equipment (PPE):** Always wear safety glasses, hearing protection, and gloves when operating a drill.
- **Secure Workpiece:** Ensure the material being drilled is securely clamped or held to prevent movement during operation.
- **Inspect Drill Bit:** Before each use, inspect the drill bit for any signs of damage, cracks, or excessive wear. Do not use damaged bits.
- **Correct Tool Usage:** This bit is designed exclusively for **rotary drills**. Do not use it with hammer drills, as this can damage the bit and the drill, and may cause injury.
- **Maintain Control:** Always maintain a firm grip on the drill and be prepared for torque reactions.

- **Clear Work Area:** Keep the work area clean and well-lit. Remove any obstructions or debris.
- **Avoid Overheating:** Allow the drill bit to cool periodically during extended use to prevent overheating, which can reduce bit life.

3. SETUP

Proper installation of the drill bit is crucial for safe and effective operation.

1. **Select the Correct Bit:** Ensure the BM2020 bit is the appropriate size (3/4" diameter) and type for your application.
2. **Unplug or Disconnect Power:** Always ensure the drill is unplugged or its battery is removed before changing bits.
3. **Open Drill Chuck:** Rotate the drill chuck counter-clockwise to open the jaws sufficiently to insert the bit.
4. **Insert Bit:** Insert the shank of the BM2020 drill bit into the chuck. Ensure it is inserted as far as possible without the flutes touching the chuck jaws.
5. **Tighten Chuck:** Rotate the drill chuck clockwise to securely tighten the jaws around the bit shank. For keyless chucks, hand-tighten firmly. For keyed chucks, use the chuck key to ensure maximum grip.
6. **Verify Security:** Gently pull on the drill bit to confirm it is securely fastened and will not slip during operation.

4. OPERATING INSTRUCTIONS

The BOSCH BM2020 drill bit is specifically designed for rotary drilling in masonry, brick, and block. Adhere to the following guidelines for optimal performance and safety.

- **Rotary Mode Only:** This bit is intended for use with rotary drills only. Do not engage hammer drill functions, as this can damage the bit and reduce its effectiveness.
- **Starting the Hole:** Position the bit precisely where the hole is desired. The bit's tip is designed for reduced walking, allowing for a clean start.
- **Apply Consistent Pressure:** Apply steady, moderate pressure to the drill. Avoid excessive force, which can cause the bit to bind or overheat.
- **Maintain Speed:** Operate the drill at a consistent speed. This bit performs well in high-speed mode, especially with cordless drills.
- **Clear Debris:** The fast spiral flute design aids in efficient material removal. Periodically withdraw the bit slightly from the hole to help clear dust and debris, especially in deeper holes.
- **Cooling:** For prolonged drilling, especially in dense materials, allow the bit to cool down periodically. You may also use a small amount of water as a coolant, if appropriate for your drill and environment, to extend bit life.

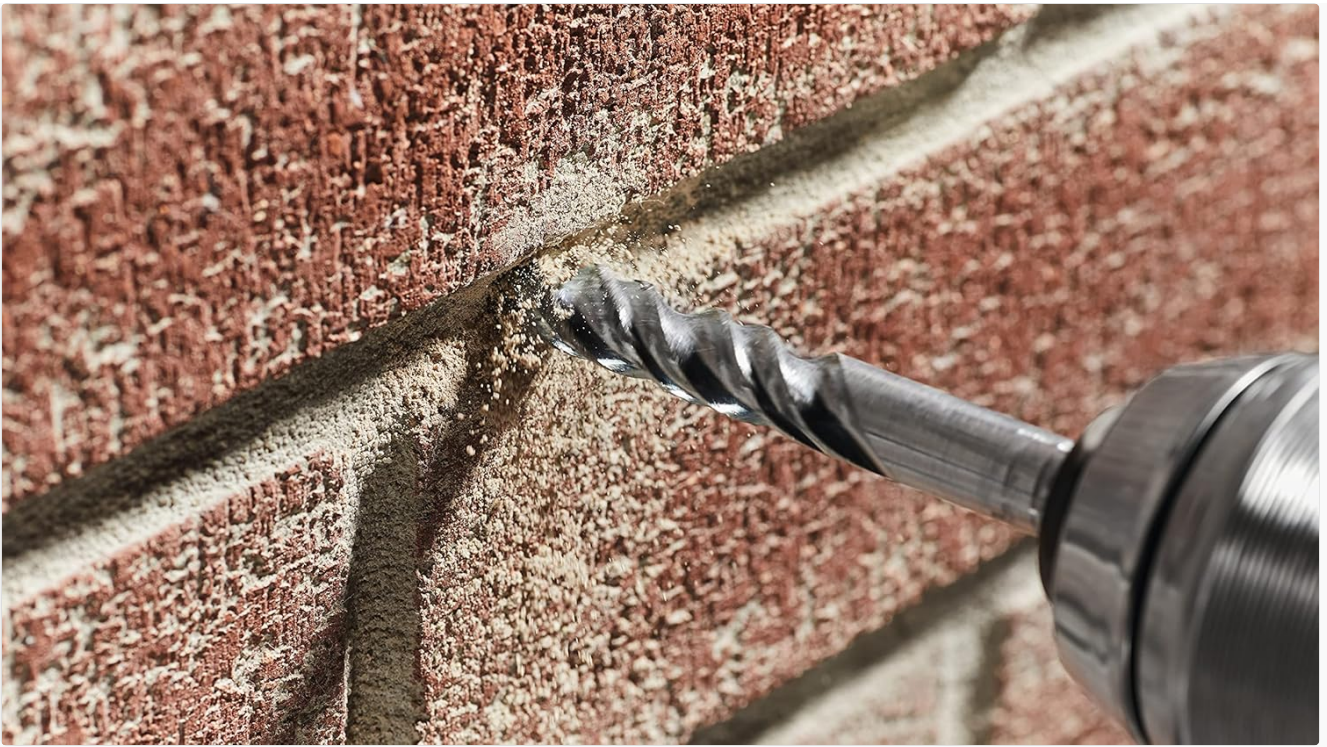


Figure 2: The BM2020 drill bit in use on a brick surface.



Figure 3: The BM2020 drill bit effectively drilling into a concrete surface.



Figure 4: Proper handling of a drill with a masonry bit, potentially with dust extraction.

5. MAINTENANCE

Proper care and maintenance will extend the life of your drill bit.

- **Cleaning:** After each use, clean the drill bit to remove dust and debris. A stiff brush can be used.
- **Lubrication/Protection:** Apply a light coat of machine oil to the bit to prevent rust, especially if storing for extended periods or in humid conditions.
- **Storage:** Store the drill bit in a dry place, preferably in its original packaging or a dedicated bit holder, to protect the carbide tip from damage.
- **Inspection:** Regularly inspect the bit for wear. While the carbide tip is durable, it will eventually wear down with extensive use. Replace the bit when performance significantly degrades.

6. TROUBLESHOOTING

Addressing common issues can help maintain drilling efficiency.

- **Bit Walking at Start:** Ensure the drill is held firmly and started at a low speed until the bit creates a small indentation. The BM2020's precision tip is designed to minimize walking.
- **Slow Drilling:** Check if the drill is in rotary mode (not hammer mode). Ensure sufficient, consistent pressure is applied. The material being drilled might be exceptionally hard; consider cooling the bit.
- **Excessive Dust:** While the spiral flute design optimizes material removal, drilling generates dust. Consider using a dust extraction system for cleaner operation and improved visibility.
- **Bit Overheating:** Reduce drilling speed, apply less pressure, and allow the bit to cool. Ensure debris is being cleared from the hole.

7. SPECIFICATIONS

Feature	Detail
Brand	Bosch
Model Number	BM2020
Material	Carbide
Cutting Diameter	0.75 Inches (3/4")
Length	13 Inches
Shank Type	Straight
Tool Flute Type	Spiral
Number of Flutes	2
Point Style	Taper Point
Cutting Angle	135 Degrees
Surface Recommendation	Brick, Masonry
Item Weight	0.01 ounces
UPC	000346659528

8. WARRANTY AND SUPPORT

For detailed warranty information, product support, or to contact customer service, please visit the official Bosch website or refer to the documentation included with your power tool. Bosch provides resources to assist with product inquiries and service needs.

Official Bosch Website: www.boschtools.com