

Bosch HC5030

Bosch HC5030 SDS-max Speed-X Rotary Hammer Bit User Manual

MODEL: HC5030

Brand: Bosch

Introduction

The Bosch HC5030 SDS-max Speed-X Rotary Hammer Bit is engineered for efficient drilling in concrete and masonry. This 3/4 inch diameter, 13 inch long bit features a carbide-tipped X-head designed for extended sharpness and durability. It is compatible with Bosch SDS-max hammers and other competitive SDS-max drive hammers, including Hilti hammers utilizing TE-Y and TE-FY shanks. The design adheres to ANSI specification B212.14, ensuring reliable performance. Key design elements include a solid carbide head with a robust S-cutter for enhanced speed and bit life, and an optimized shank to resist wear over time. Bosch's commitment to innovation in concrete and masonry drilling is reflected in the advanced carbide technology and diffusion bonding used in this bit, resulting in superior performance and durability.

Product Features

- **Highest Drilling Speed:** Inclined side cutters facilitate fast concrete drilling.
- **Compact Head:** Designed for rapid dust removal and extended bit life.
- **Active-Centering Tip:** Ensures quick and accurate starts for precise drilling.
- **Wear Mark Indicator:** Provides visual confirmation of accurate hole diameter, crucial for secure anchor fittings.
- **Tungsten-Carbide Tip:** Offers superior wear resistance for demanding applications.
- **Large Flute Volume:** Promotes fast drilling, efficient dust transport, and reduced clogging.
- **Patented Four-Cutter Tip Design:** Delivers optimal overall drilling performance.



Image: Detailed diagram highlighting the Active-Centering Tip, Tungsten-Carbide Tip, Patented Four-Cutter Tip Design, Wear Mark, and Large Flute Volume of the Speed-X drill bit.

Safety Information

Always prioritize safety when operating power tools and accessories. Failure to follow safety guidelines can result in serious injury.

- **Personal Protective Equipment (PPE):** Always wear safety glasses, hearing protection, and a dust mask when drilling. Gloves are recommended to protect hands.
- **Tool Compatibility:** Ensure the SDS-max rotary hammer bit is correctly matched to your SDS-max rotary hammer drill. Do not force the bit into an incompatible chuck.
- **Inspect Bit:** Before each use, inspect the drill bit for any signs of damage, cracks, or excessive wear. Do not use damaged bits.
- **Secure Workpiece:** Always secure the material you are drilling to prevent movement during operation.
- **Maintain Control:** Hold the rotary hammer firmly with both hands. Be prepared for torque reactions, especially when the bit binds or breaks through the material.
- **Avoid Overheating:** Allow the bit to cool periodically during prolonged use to prevent overheating and premature wear.
- **Dust Management:** Drilling concrete generates dust. Use appropriate dust extraction systems or work in a well-ventilated area.
- **Electrical Safety:** Be aware of hidden electrical wires or plumbing in walls before drilling. Use a detector if necessary.

Setup

1. **Select Correct Bit:** Choose the appropriate diameter and length of the SDS-max bit for your application. The HC5030 is 3/4 inch in diameter and 13 inches long.
2. **Clean Shank:** Ensure the SDS-max shank of the drill bit is clean and free of dust or debris. A light coating of grease on the shank can improve performance and reduce wear.

3. **Insert Bit:** Pull back the collar on your SDS-max rotary hammer. Insert the bit into the chuck, rotating it slightly until it clicks into place. Release the collar.
4. **Verify Engagement:** Gently pull on the bit to ensure it is securely locked in the chuck. The bit should have a small amount of axial play; this is normal for SDS-max systems.



Image: A Bosch SDS-max rotary hammer drill with the HC5030 bit properly installed in the chuck, ready for operation.

Operating Instructions

1. **Mark Drilling Location:** Clearly mark the precise location for drilling on your workpiece.
2. **Start Drilling:** Place the tip of the bit on the marked spot. Start the rotary hammer at a low speed to create a pilot indentation, then increase to full speed.
3. **Apply Steady Pressure:** Apply firm, steady pressure to the tool. Allow the rotary hammer action to do the work; excessive force can reduce drilling efficiency and damage the bit or tool.
4. **Maintain Straight Angle:** Keep the drill bit perpendicular to the drilling surface throughout the process to ensure a straight hole and prevent bit breakage.
5. **Clear Debris:** The large flute design helps clear debris. For deep holes, periodically withdraw the bit slightly to assist in dust removal.
6. **Monitor Wear Mark:** The wear mark indicator on the bit helps ensure the drilled hole remains within specification for anchor installation. If the wear mark is no longer visible, the bit may be worn beyond acceptable limits for precise anchor fitting.
7. **Finish Drilling:** Once the desired depth is reached, withdraw the bit from the hole while the tool is still running to clear any remaining debris.



Image: A worker demonstrating the use of a Bosch rotary hammer drill with an SDS-max bit for drilling into a concrete surface on a construction site.



Image: A close-up view of the Bosch SDS-max Speed-X bit actively drilling into a concrete surface, showing dust being expelled.

Maintenance

- **Cleaning:** After each use, clean the drill bit to remove concrete dust and debris. A wire brush can be used for the flutes, and a cloth for the shank.
- **Lubrication:** Apply a thin layer of SDS-max grease or a general-purpose lubricant to the shank of the bit periodically to ensure smooth insertion and removal from the chuck and to reduce wear.
- **Inspection:** Regularly inspect the carbide tip for chips, cracks, or excessive wear. Check the flutes for signs of damage or clogging. A severely worn or damaged bit should be replaced to maintain performance and safety.
- **Storage:** Store drill bits in a dry place to prevent rust. Keep them in their original packaging or a dedicated bit case to protect the tips from damage.

Troubleshooting

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Slow drilling progress	Worn bit tip; insufficient pressure; incorrect drill mode (not in hammer mode); drilling into rebar.	Replace bit if tip is dull; apply steady, firm pressure; ensure rotary hammer is in hammer drill mode; adjust drilling location if hitting rebar.
Bit binding or getting stuck	Excessive side pressure; drilling at an angle; insufficient dust removal; hitting an obstruction.	Maintain straight drilling angle; periodically withdraw bit to clear debris; use a detector to avoid obstructions.
Excessive bit wear or breakage	Overheating; incorrect application (e.g., drilling metal without proper cooling); excessive force; impact with hard aggregate.	Allow bit to cool; ensure correct application; use appropriate pressure; inspect bit regularly.
Hole diameter is too large or inconsistent	Worn wear mark indicator; bit wobble due to loose chuck or worn tool.	Replace bit if wear mark is gone; ensure bit is securely seated in chuck; inspect rotary hammer for chuck wear.

Specifications

Attribute	Detail
Model Number	HC5030
Brand	Bosch
Size	3/4 inch diameter, 13 inch length
Shank Type	SDS-max
Material	Carbide
Cutting Diameter	19.05 Millimeters (0.75 Inches)
Finish Type	Uncoated
Cutting Angle	120 Degrees
Tool Flute Type	Parabolic
Point Style	Taper Point
Number of Flutes	1
Surface Recommendation	Concrete, Masonry, Alloy Steel, Metal, Steel (primarily designed for concrete/masonry)
Item Weight	0.01 ounces <i>(Note: This weight may be a data entry error. Refer to product packaging for accurate weight.)</i>
UPC	000346208122

Warranty and Support

This Bosch product comes with a manufacturer's warranty. For specific details regarding the warranty period and coverage, please refer to the documentation included with your purchase or visit the official Bosch website.

For technical support, product inquiries, or to locate authorized service centers, please visit the [Bosch Brand Store on Amazon](#) or the official Bosch Tools website.

Proposition 65 Warning: This product may expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](#).

