Bosch GSB 600

BOSCH GSB 600 Corded Electric Impact Drill User Manual

Model: GSB 600

1. Introduction and Overview

The BOSCH GSB 600 Corded Electric Impact Drill is a robust and durable power tool designed for various drilling and screwdriving tasks. Equipped with a powerful 600 W motor, it delivers consistent performance for demanding applications. Its design incorporates high-quality construction and a new carbon brush for enhanced longevity.

This drill features variable speed control, allowing for precise operation, especially beneficial for delicate tasks. It can achieve a no-load rotation speed of up to 3000 RPM and an impact rate of up to 48000 BPM. The rated torque of 1.4 Nm is suitable for standard drilling activities, and its 13 mm chuck capacity accommodates a wide range of drill bits.

For versatility, the drill includes forward and reverse rotation capabilities, simplifying bit removal and screwdriving. Double insulation enhances user safety by covering live components, eliminating the need for grounding. The GSB 600 is suitable for drilling into masonry (bricks, concrete), metal, and wood, and can also be used for hole sawing and driving screws.

2. Safety Instructions

Always adhere to general power tool safety guidelines to prevent injury and damage. Read all safety warnings, instructions, illustrations, and specifications provided with this power tool.

- **Work Area Safety:** Keep your work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators.

- **Personal Safety:** Always wear eye protection. Use hearing protection when operating impact drills. Wear a dust mask if drilling creates dust. Secure your workpiece firmly. Do not overreach; maintain proper footing and balance at all times.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Store idle power tools out of the reach of children.
- **Double Insulation:** This tool features double insulation, which provides an additional layer of safety and eliminates the need for a grounded electrical outlet. However, always inspect the power cord for damage before use.

3. Package Contents

Upon purchasing the BOSCH GSB 600 Corded Electric Impact Drill, the following items are typically included:

- BOSCH GSB 600 Corded Electric Impact Drill
- Auxiliary Handle
- Depth Gauge
- Chuck Key

Figure 3.1: The package contains the GSB 600 Corded Electric Impact Drill and an auxiliary handle.

4. Product Features

- **Powerful 600 W Motor:** Ensures robust and consistent performance for various drilling tasks.
- **Variable Speed Control:** Allows for precise speed adjustment up to 3000 RPM for optimal results in different materials.
- **High Impact Rate:** Delivers up to 48000 BPM for efficient drilling in masonry.
- **1.4 Nm Rated Torque:** Sufficient torque for standard drilling and screwdriving applications.
- **13 mm Chuck Capacity:** Accommodates a wide range of drill bits for diverse applications.
- **Forward/Reverse Rotation:** Facilitates easy drilling and removal of screws or jammed bits.
- **Double Insulation:** Enhances user safety by providing two layers of insulating material.
- **Versatile Applications:** Suitable for drilling in wood, metal, and masonry.
- **Ergonomic Design:** Includes an auxiliary handle for comfortable and controlled handling.

5. Setup and Assembly

5.1 Attaching the Auxiliary Handle

The auxiliary handle provides additional grip and control during operation. To attach it, slide the handle onto the front collar of the drill and tighten it securely by rotating the handle clockwise until it is firm. Ensure it is positioned comfortably for your grip.

5.2 Inserting and Securing Drill Bits

1. **Loosen the Chuck:** Use the provided chuck key to rotate the chuck counter-clockwise until the jaws are wide enough to insert the drill bit.
2. **Insert the Drill Bit:** Select the appropriate drill bit for your material and task. Insert the shank of the drill bit into the chuck as far as it will go.
3. **Tighten the Chuck:** Rotate the chuck clockwise by hand until it holds the bit firmly. Then, use the chuck key to tighten it securely, ensuring the bit is centered and cannot slip during operation.

5.3 Setting the Depth Gauge

The depth gauge helps in drilling holes to a consistent, predetermined depth. Insert the depth gauge into the hole on the auxiliary handle. Adjust its position so that the desired drilling depth is achieved when the end of the gauge touches the workpiece.

Figure 5.1: Steps for inserting and securing a drill bit in the chuck.

6. Operating Instructions

6.1 Power Connection

Ensure the drill is switched off before plugging it into a suitable 240V AC power outlet. Always check that the power cord is free from damage.

6.2 Variable Speed Control

The drill's trigger switch provides variable speed control. Pressing the trigger lightly will result in a lower speed, while pressing it further will increase the speed. This allows for precise control depending on the material and application.

6.3 Forward/Reverse Rotation Switch

A switch located near the trigger allows you to select the direction of rotation (forward or reverse). Use forward rotation for drilling and screwdriving. Use reverse rotation for removing screws or freeing a jammed drill bit.

Always ensure the drill has come to a complete stop before changing the rotation direction.

6.4 Drilling Techniques

- **General Drilling:** Hold the drill firmly with both hands using the auxiliary handle. Apply steady, even pressure. Allow the drill to do the work.
- **Drilling in Wood:** Use wood-specific drill bits. Start with a slower speed to prevent splintering, then increase as needed.
- **Drilling in Metal:** Use metal-specific drill bits. Apply cutting oil to cool the bit and improve drilling efficiency. Start with a pilot hole for larger diameters.
- **Drilling in Masonry (Impact Mode):** For bricks and concrete, switch the drill to impact mode (if applicable, typically a switch on the side of the drill). Use masonry drill bits. Apply firm, steady pressure.

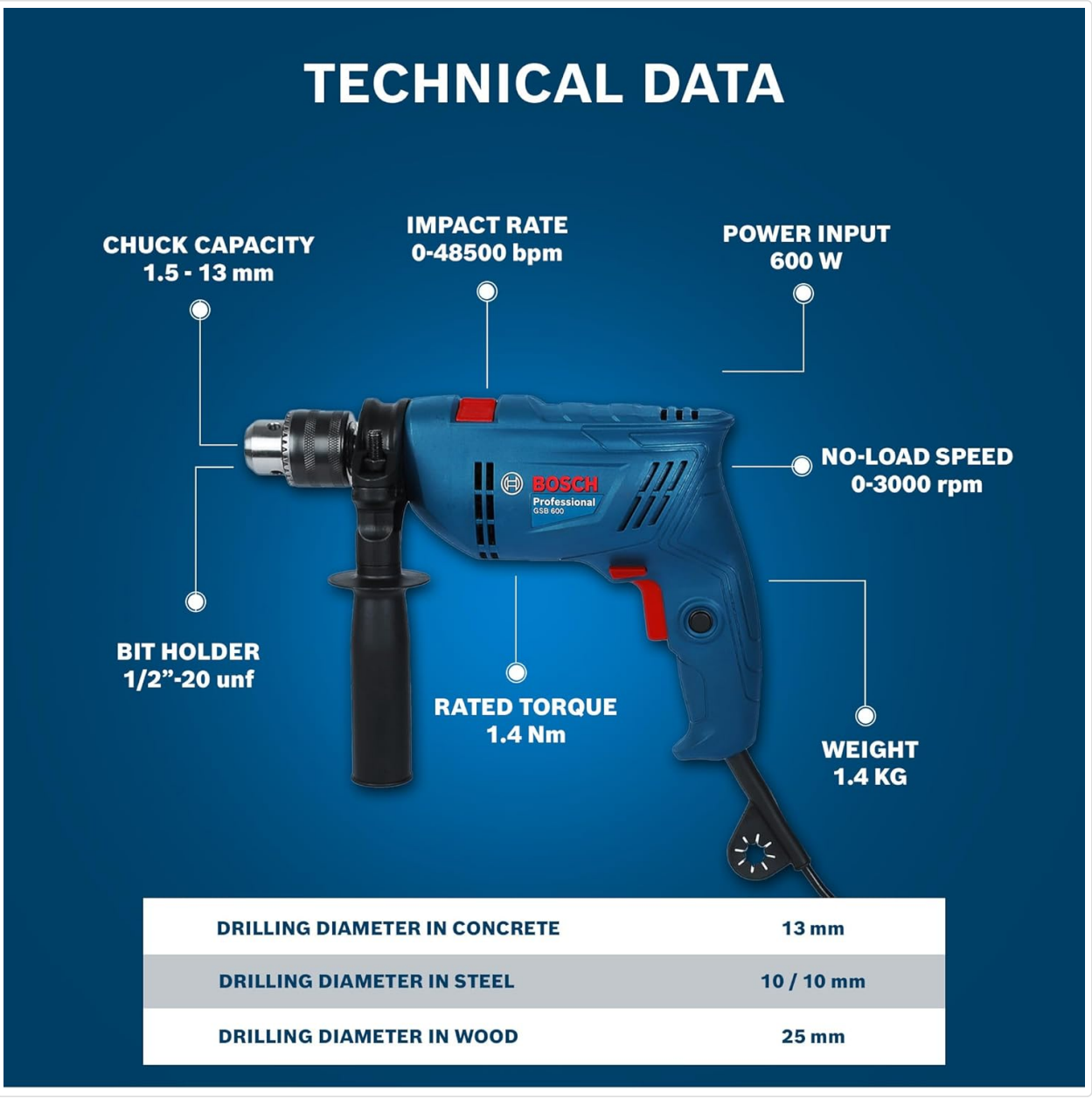

Figure 6.1: Applications of the GSB 600 drill in metal, wood, and masonry.

7. Maintenance

7.1 Cleaning

Regularly clean the ventilation slots of the drill to prevent overheating. Use a soft brush or compressed air to remove dust and debris. Do not use water or chemical cleaning agents.

7.2 Carbon Brush Replacement

The carbon brushes are wear components. If the drill experiences reduced power or intermittent operation, the carbon brushes may need replacement. This task should ideally be performed by a qualified service technician to ensure proper installation and maintain the tool's double insulation integrity.

7.3 Storage

Store the drill in a dry, secure location, out of reach of children. Protect it from moisture and extreme temperatures. If storing for extended periods, ensure the power cord is neatly coiled and not kinked.

8. Troubleshooting

- **Drill Not Starting:** Check the power connection. Ensure the plug is fully inserted into the outlet. Verify that the power outlet is functional.
- **Reduced Power/Intermittent Operation:** This could indicate worn carbon brushes. Refer to Section 7.2 for guidance.
- **Overheating:** Ensure the ventilation slots are clear of debris. Avoid continuous heavy-duty use without breaks. If overheating persists, discontinue use and contact customer service.
- **Excessive Vibration:** Check that the drill bit is correctly inserted and securely tightened in the chuck. Ensure the auxiliary handle is firmly attached.
- **Bit Not Drilling Effectively:** Ensure you are using the correct type of drill bit for the material. Check if the drill bit is sharp and not worn. Apply appropriate pressure.

9. Specifications

Specification	Value
Brand	Bosch
Model Number	GSB 600 (06011A03F0)
Power Source	Corded Electric
Maximum Power	600 Watts
Voltage	240 Volts (AC)
Amperage	14 Amps
Maximum Rotational Speed	3000 RPM (No-load)
Impact Rate	Up to 48000 BPM
Maximum Torque	1.4 Newton Meters
Maximum Chuck Size	13 Millimeters

Specification	Value
Drilling Capacity (Wood)	25 Millimeters
Drilling Capacity (Metal)	10 Millimeters
Drilling Capacity (Concrete)	13 Millimeters
Item Weight	1.8 Kilograms
Product Dimensions (L x W x H)	28L x 7.2W x 27.5H Centimeters
Material	Metal
Country of Origin	India

Figure 9.1: Technical data overview for the GSB 600.

10. Warranty and Support

The BOSCH GSB 600 Corded Electric Impact Drill comes with a**1-year warranty** from the invoice date. To

claim warranty services, a copy of the purchase invoice is required.
For any queries, technical assistance, or warranty claims, please contact BOSCH Power Tools customer service:

- **Toll-free Customer Service Number:** 1800-425-8665

Additionally, you can utilize the **BOSCH BeConnected App** for extended warranty registration and to access rewards. Look for details on the product packaging to download and register with the app.

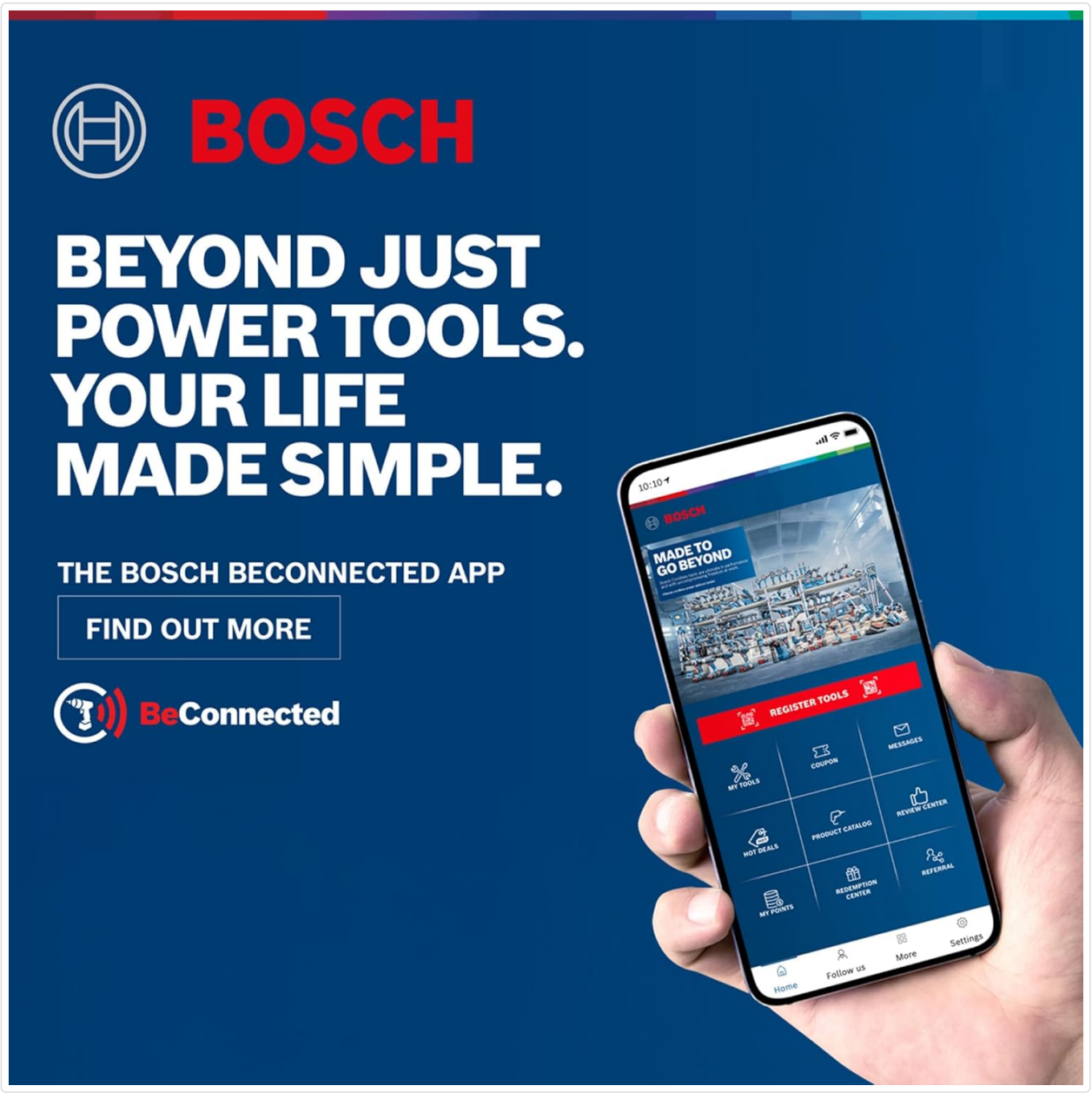

Figure 10.1: The Bosch BeConnected App for extended warranty and rewards.