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Makita HP1640

Makita HP1640 5/8-Inch Hammer Drill User Manual

Model: HP1640 | Brand: Makita

Product Overview

The Makita HP1640 5/8-Inch Hammer Drill is a robust and reliable power tool designed for demanding applications. It features a powerful 6.0 AMP motor, offering high performance for drilling into various materials, including concrete. Its lightweight design and ergonomic features ensure comfortable and controlled operation, reducing user fatigue during extended use.



Figure 1: Front view of the Makita HP1640 Hammer Drill, showing the chuck, side handle, and main body.

Key Features

- **Powerful 6.0 AMP Motor:** Delivers 0-2,800 RPM and 0-44,800 BPM for demanding drilling and hammering applications.
- **Lightweight Design:** Weighs 4.4 lbs, making it easy to handle for extended periods.
- **Large Drilling Capacity:** Capable of drilling up to 5/8-inch in concrete.
- **2-Mode Operation:** Easily switch between "Rotation Only" for standard drilling and "Hammering with Rotation" for masonry applications.
- **Soft Grip Handle:** Provides increased comfort and control during operation.
- **Variable Speed Control:** Allows for controlled start-up and precise drilling.
- **All-Ball Bearing Construction:** Ensures longer tool life and durability.
- **Recessed Lock-on Button:** For continuous use, reducing user fatigue.

Included Components

The Makita HP1640 Hammer Drill comes with the following standard accessories:

- Drill Chuck (Part No. 192541-1)
- Chuck Key (Part No. 763440-0)
- Side Handle (Part No. 153503-4)
- Depth Gauge (Part No. 324219-0)

Setup

Attaching the Side Handle

The side handle provides additional stability and control during operation. To attach:

1. Loosen the side handle grip by turning it counter-clockwise.
2. Slide the handle onto the front of the drill body, behind the chuck.
3. Adjust the handle to your desired position for optimal grip and control.
4. Tighten the handle grip by turning it clockwise until secure.



Figure 2: Proper hand placement and use of the side handle for stability during drilling.

Installing the Depth Gauge

The depth gauge allows for consistent drilling depth. To install:

1. Insert the depth gauge into the hole on the side handle.
2. Adjust the depth gauge to the desired drilling depth by sliding it in or out.
3. Ensure it is securely positioned before beginning operation.



Figure 3: Close-up view of the drill chuck and the depth gauge mechanism.

Inserting and Securing Drill Bits

Always ensure the drill is unplugged before changing bits.

1. Insert the drill bit into the chuck as far as it will go.
2. Use the chuck key (provided) to tighten the chuck jaws securely around the drill bit. Ensure all three holes on the chuck are tightened evenly for maximum grip.
3. Remove the chuck key immediately after tightening to prevent injury during operation.

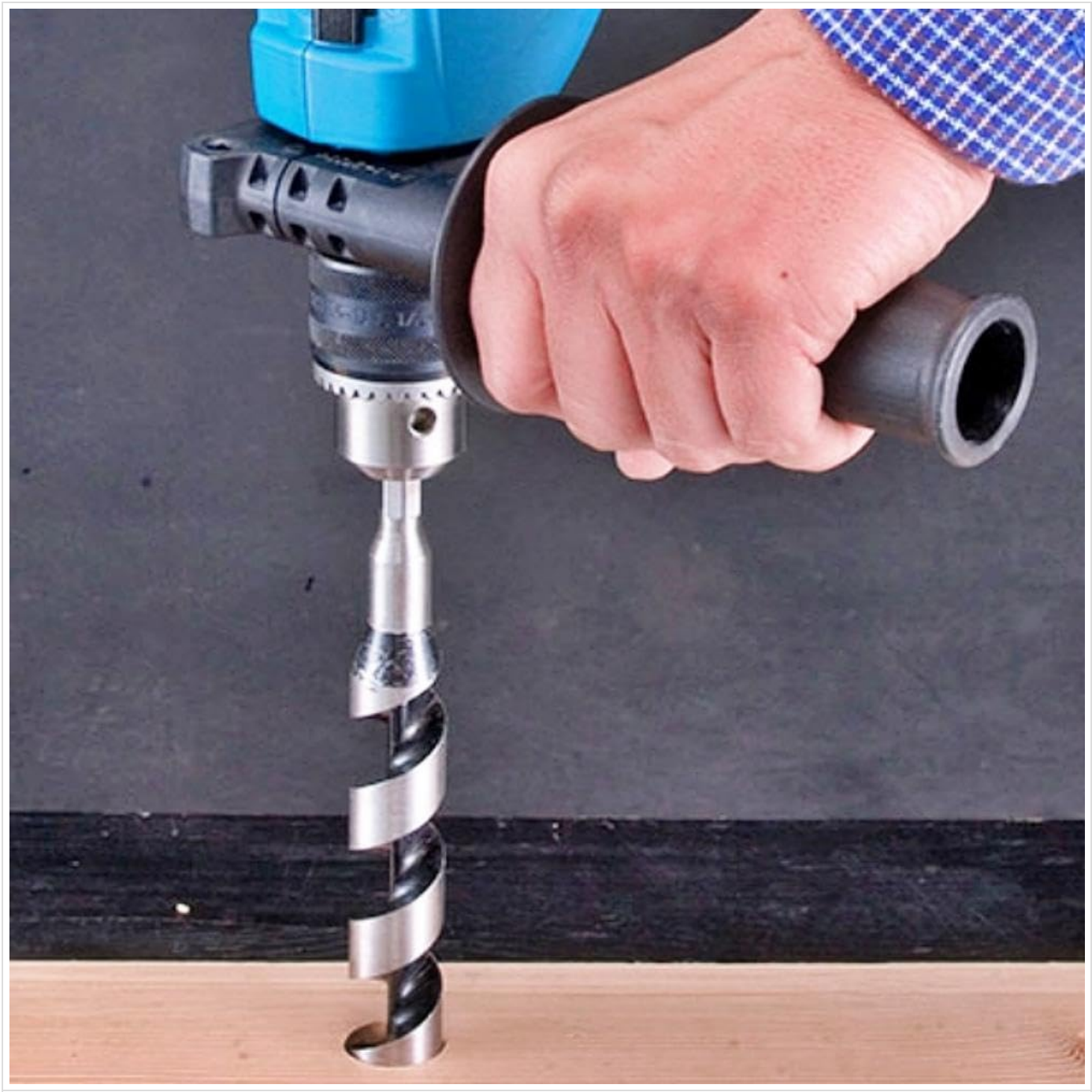


Figure 4: The drill with a large auger bit, demonstrating its capacity for various bit types.

Operating Instructions

Powering On/Off

To start the drill, press the trigger switch. To stop, release the trigger switch. For continuous operation, press the trigger switch and then press the lock-on button. To release the lock-on, press the trigger switch again.

Selecting Operating Mode

The HP1640 features a mode selector switch located on the top of the drill body:

- **Rotation Only Mode (Drill Symbol):** For drilling into wood, metal, plastic, and for driving screws.
- **Hammering with Rotation Mode (Hammer Symbol):** For drilling into masonry, concrete, and brick.

Always select the appropriate mode for the material you are working with.

Variable Speed Control

The drill features variable speed control, allowing you to adjust the drilling speed by varying the pressure on the trigger switch. This provides greater control, especially when starting a hole or working with delicate materials.

Forward/Reverse Rotation

The forward/reverse switch is located above the trigger. Push it to the left for forward rotation (drilling) and to the right for reverse rotation (removing bits or screws).

Maintenance

Regular maintenance ensures the longevity and optimal performance of your Makita HP1640 Hammer Drill.

- **Cleaning:** Regularly clean the ventilation openings to prevent overheating. Use a soft, damp cloth; never use solvents.
- **Chuck Maintenance:** Keep the chuck jaws clean and lightly oiled to ensure smooth operation and secure bit gripping.
- **Carbon Brushes:** The drill is equipped with extended-life carbon brushes. When they wear down, the motor may spark or run intermittently. Replace both brushes at the same time. This should be done by a qualified service technician.
- **Cord Inspection:** Periodically inspect the power cord for any damage. If damaged, have it repaired by a qualified professional.

Troubleshooting

Problem	Possible Cause	Solution
Drill does not start.	No power supply; damaged cord; faulty switch.	Check power connection. Inspect cord for damage. If cord or switch is faulty, seek professional repair.
Loss of power or intermittent operation.	Worn carbon brushes; motor overheating.	Replace carbon brushes (professional service recommended). Allow drill to cool down. Ensure ventilation openings are clear.
Drill bit slips in chuck.	Chuck not tightened properly; worn chuck jaws; incorrect bit type.	Ensure chuck is tightened evenly with the chuck key. Clean chuck jaws. Use bits with appropriate shanks. If jaws are worn, chuck replacement may be needed.

Specifications

Attribute	Value
Brand	Makita
Model Number	HP1640
Power Source	Corded Electric
Amperage	6 Amps
Voltage	220 Volts
Maximum Rotational Speed	2800 RPM

Attribute	Value
Blows Per Minute (BPM)	44,800 BPM
Maximum Chuck Size	10 Millimeters (3/8 inch)
Drilling Capacity (Concrete)	5/8 inch
Drilling Capacity (Wood)	30 Millimeters
Drilling Capacity (Metal)	13 Millimeters
Item Weight	5.2 Pounds
Product Dimensions	4.72 x 4.33 x 1.18 inches
Special Feature	Variable Speed

Warranty and Support

The Makita HP1640 Hammer Drill comes with a **3-year limited warranty** from the date of purchase, covering defects in materials and workmanship. For warranty claims, technical support, or service, please contact Makita customer service or visit their official website.
For more information, visit the official Makita Store on Amazon.

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