

Hikoki 754255

Hikoki 754255 HM Hole Saw Set Instruction Manual

Model: 754255

1. INTRODUCTION

Thank you for choosing the Hikoki 754255 HM Hole Saw Set. This manual provides essential information for the safe and effective use, maintenance, and troubleshooting of your new hole saw set. Please read these instructions carefully before operation and keep them for future reference.

This set is designed for creating clean, precise holes in various materials using a power drill. The carbide-tipped teeth ensure durability and efficient cutting performance.

2. SAFETY INSTRUCTIONS

Always follow basic safety precautions when using power tools and accessories to reduce the risk of injury. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- **Wear appropriate personal protective equipment (PPE):** Always wear safety glasses, hearing protection, and gloves. A dust mask is recommended when cutting materials that produce fine particles.
- **Secure the workpiece:** Ensure the material you are drilling is firmly clamped or secured to prevent movement during operation.
- **Use the correct drill:** Ensure your drill is suitable for the hole saw size and material being cut. Use a drill with a clutch if available, especially for larger hole saws.
- **Check for obstructions:** Before drilling, ensure there are no electrical wires, pipes, or other obstructions behind the workpiece.
- **Maintain a firm grip:** Hold the drill firmly with both hands, especially when starting a cut or when the hole saw binds.
- **Start slowly:** Begin drilling at a slow speed to allow the pilot bit to engage and the hole saw to start cutting smoothly. Increase speed gradually.
- **Apply steady pressure:** Do not force the hole saw. Let the tool do the work. Excessive pressure can cause overheating, damage to the saw, or kickback.
- **Clear debris:** Periodically clear chips and debris from the cutting area, especially when drilling deep holes. Disconnect power before clearing.
- **Allow cooling:** For prolonged use, allow the hole saw to cool down to prevent overheating and premature wear.

- **Inspect before use:** Before each use, inspect the hole saw for any damage, dull teeth, or cracks. Do not use damaged accessories.

3. PACKAGE CONTENTS

The Hikoki 754255 HM Hole Saw Set includes the following items:

- 15-piece combination case
- Carbide-tipped hole saws in the following diameters (mm): 19, 20, 22, 25, 29, 35, 38, 44, 51, 54, 60, 65, 76, 82
- *(Note: Specific arbors and pilot bits are typically included in such sets, but not explicitly detailed in the product description. Please refer to the packaging for a complete list.)*



This image shows the Hikoki 754255 HM Hole Saw Set, featuring a collection of carbide-tipped hole saws in a storage case. The saws are designed for cutting various materials.

4. SETUP

1. **Select the correct hole saw:** Choose the hole saw with the desired diameter for your application.
2. **Attach the arbor:** Thread the selected hole saw onto the appropriate arbor. Ensure it is securely tightened.
3. **Insert the pilot bit:** Insert the pilot drill bit into the arbor and tighten the grub screw(s) to secure it. The pilot bit should extend slightly beyond the hole saw teeth.
4. **Mount to drill:** Insert the arbor shank into the chuck of your power drill. Tighten the chuck securely to prevent slippage during operation.
5. **Verify stability:** Before starting, ensure all components are securely fastened and there is no wobble.

5. OPERATING INSTRUCTIONS

1. **Prepare the workpiece:** Mark the center of the desired hole. Secure the workpiece firmly to prevent movement.
2. **Set drill speed:** Adjust your drill's speed according to the material and hole saw diameter. Generally, larger hole saws and harder materials require lower speeds.
3. **Start drilling:** Position the pilot bit on your marked center. Start the drill at a low speed, applying gentle, steady pressure.
4. **Engage the hole saw:** Once the pilot bit has penetrated the material, gradually increase the drill speed and maintain steady pressure. Allow the carbide teeth to cut through the material.
5. **Maintain control:** Keep a firm grip on the drill. Be prepared for potential kickback if the saw binds.
6. **Clear the slug:** Once the hole is cut, carefully remove the drill and hole saw. The cut material (slug) will typically be inside the hole saw. Use a screwdriver or punch to push it out through the side slots or from the back.

6. MAINTENANCE

- **Cleaning:** After each use, clean the hole saws and arbors to remove any debris, dust, or residue. A stiff brush can be effective.
- **Inspection:** Regularly inspect the carbide teeth for wear, chips, or damage. Also check the arbor and pilot bit for signs of wear or bending. Replace damaged components immediately.
- **Lubrication (if applicable):** For cutting certain metals, a cutting lubricant may be recommended to extend tool life and improve cutting performance. Refer to material-specific guidelines.
- **Storage:** Store the hole saw set in its original case in a dry, clean environment to prevent rust and damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Hole saw binds or stalls	Excessive pressure, incorrect speed, dull teeth, material too hard	Reduce pressure, adjust speed, replace dull saw, ensure saw is suitable for material
Poor cut quality or rough edges	Dull teeth, incorrect speed, unstable workpiece	Replace dull saw, adjust speed, secure workpiece firmly
Hole saw overheating	Excessive speed, insufficient cooling, continuous use	Reduce speed, allow saw to cool, use cutting lubricant (for metal)

Problem	Possible Cause	Solution
Pilot bit wanders	Pilot bit loose, incorrect starting pressure	Tighten pilot bit, start with slower speed and gentle pressure

8. SPECIFICATIONS

- **Model:** Hikoki 754255
- **Type:** HM (Carbide-tipped) Hole Saw Set
- **Number of Pieces:** 15 (including case and various hole saws)
- **Hole Saw Diameters:** 19mm, 20mm, 22mm, 25mm, 29mm, 35mm, 38mm, 44mm, 51mm, 54mm, 60mm, 65mm, 76mm, 82mm
- **Recommended Materials:** Wood, plastic, plasterboard, non-ferrous metals (always verify compatibility for specific materials)

9. WARRANTY AND SUPPORT

Hikoki products are manufactured to high-quality standards. For information regarding warranty coverage, please refer to the warranty card included with your purchase or visit the official Hikoki website. Keep your proof of purchase for any warranty claims.

For technical support, spare parts, or service inquiries, please contact your local Hikoki dealer or authorized service center. Contact information can typically be found on the official Hikoki website or on your product packaging.

Official Website: www.hikoki-powertools.com