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Model: 753949 | Brand: HIKOKI

1. PRODUCT OVERVIEW

The HIKOKI 753949 is a comprehensive 389-piece accessory set designed for use with mini drills and rotary tools. This versatile kit includes a wide array of drill bits, grinding stones, polishing wheels, cutting discs, and other attachments, all organized within a durable tool case. It is intended for various applications such as drilling, grinding, sanding, polishing, cutting, and engraving on different materials.



Image 1: The HIKOKI 753949 drill bit set and tool case, showcasing the organized arrangement of 389 pieces within its ergonomic carrying case.

2. PACKAGE CONTENTS

Upon opening the HIKOKI 753949 tool case, verify that all 389 pieces are present and accounted for. The set typically includes, but is not limited to, the following categories of accessories:

- **Drill Bits:** Various sizes for different materials.
- **Grinding Stones:** For sharpening, deburring, and general grinding.
- **Sanding Bands & Discs:** For smoothing and shaping.
- **Polishing Wheels & Compounds:** For achieving a high-gloss finish.
- **Cutting Discs:** For cutting thin materials.
- **Wire Brushes:** For cleaning and surface preparation.
- **Engraving Cutters:** For detailed work.
- **Mandrels & Collets:** For attaching accessories to the rotary tool.
- **Wrenches & Dressing Stones:** For maintenance and tool setup.
- **Storage Case:** A durable, organized case for all accessories.

Refer to the included accessory list or diagram within the case for a complete inventory.

3. SETUP

1. **Safety First:** Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and a dust mask, before operating any rotary tool or mini drill.
2. **Tool Compatibility:** Ensure your mini drill or rotary tool is compatible with the shank sizes of the accessories in this set. Most accessories are designed for standard rotary tool collets.
3. **Selecting the Right Accessory:** Choose the appropriate bit or accessory for your specific task and material. Using the wrong accessory can lead to poor results or damage to the tool/material.
4. **Inserting Accessories:**
 - Unplug your rotary tool before changing accessories.
 - Loosen the collet nut on your rotary tool.
 - Insert the shank of the chosen accessory fully into the collet, then pull it out slightly (about 1/16 inch or 2mm) to prevent binding.
 - Tighten the collet nut securely using the provided wrench. Do not overtighten.
5. **Workspace Preparation:** Ensure your workspace is clean, well-lit, and free of obstructions. Secure your workpiece firmly to prevent movement during operation.

4. OPERATING INSTRUCTIONS

Always refer to your mini drill or rotary tool's instruction manual for specific operating procedures and safety guidelines. The following are general guidelines for using the HIKOKI 753949 accessories:

- **Speed Settings:** Start with a lower RPM (Revolutions Per Minute) and gradually increase as needed. Different materials and accessories require different speeds. Harder materials and smaller bits generally require higher speeds, while softer materials and larger bits require lower speeds. Avoid excessive pressure, which can cause overheating or breakage.
- **Drilling:**
 - Mark your drilling point accurately.
 - Apply light, consistent pressure. Allow the bit to do the work.
 - For deeper holes, periodically withdraw the bit to clear debris.
- **Grinding & Sanding:**
 - Move the accessory continuously over the surface to prevent gouging or uneven removal.
 - Use appropriate grit for sanding, starting coarse and moving to finer grits for a smoother finish.
- **Polishing:**
 - Apply a small amount of polishing compound to the polishing wheel or workpiece.
 - Use moderate speed and light pressure, moving the wheel over the surface until the desired shine is achieved.
- **Cutting:**
 - Use cutting discs for thin materials only.
 - Cut in a straight line, applying minimal pressure. Avoid twisting or bending the disc, as this can cause it to shatter.

Important Safety Note: Always ensure the accessory is securely fastened and that the rotary tool is stable

before starting. Never touch a rotating accessory. Disconnect power before making any adjustments or changing accessories.

5. MAINTENANCE

- **Cleaning Accessories:** After each use, clean accessories to remove debris and residue. Wire brushes can be cleaned with a stiff brush. Grinding stones can be dressed with a dressing stone to restore their shape and cutting ability.
- **Storage:** Store all accessories in the provided HIKOKI tool case. This protects them from damage, keeps them organized, and prevents loss. Ensure the case is closed securely and stored in a dry, cool place.
- **Inspection:** Regularly inspect accessories for wear, damage, or dullness. Replace worn or damaged bits immediately to ensure optimal performance and safety. Never use a cracked or bent accessory.
- **Tool Case Care:** Keep the tool case clean. Periodically wipe it down with a damp cloth to remove dust and grime.

6. TROUBLESHOOTING

- **Accessory Breaks Easily:**
 - *Possible Cause:* Excessive pressure, incorrect speed, or accessory not fully inserted.
 - *Solution:* Reduce pressure, adjust speed according to material, ensure accessory is inserted correctly and securely tightened.
- **Poor Performance / Ineffective Cutting/Grinding:**
 - *Possible Cause:* Accessory is dull, wrong accessory for the material, or insufficient speed.
 - *Solution:* Replace dull accessories, select the correct accessory for the task, increase RPM if safe for the material and accessory.
- **Accessory Wobbles or Vibrates:**
 - *Possible Cause:* Accessory not properly seated in the collet, bent shank, or damaged collet.
 - *Solution:* Re-seat the accessory, inspect the shank for bends, check the collet for damage and replace if necessary.

7. SPECIFICATIONS

Brand	HIKOKI
Model Number	753949
Number of Pieces	389
Item Dimensions (L x W x H)	11.81 x 5.12 x 5.91 inches
Item Weight	1.5 Kilograms
Compatibility	Designed for mini drills and rotary tools (check collet size compatibility)

8. WARRANTY AND SUPPORT

For information regarding warranty coverage, product support, or replacement parts for your HIKOKI 753949 drill bit

set, please refer to the documentation provided with your original purchase or contact HIKOKI customer service directly. Keep your proof of purchase for warranty claims.

Note: This manual provides general guidance. Specific usage instructions may vary based on the rotary tool used. Always prioritize safety and consult your tool's manual.