MARSBASE 17PCS Tile Hole Saw Sets

Diamond Hole Saw Kit

User Manual

Product Overview

The MARSBASE Diamond Hole Saw Kit is a comprehensive set designed for precise and smooth drilling in various hard materials. This kit includes 15 professional integrated steel diamond hole saws and a double suction cup ceramic tile hole locator, along with a screwdriver for maintenance. The diamond hole saws feature a thickened diamond coating for superior cutting strength and an anti-corrosion electroplating process for durability. The unique design includes large clearance holes to facilitate water entry and chip escape during drilling, enhancing efficiency and prolonging tool life.

This kit is ideal for use on smooth surfaces such as ceramic tiles, ceramics, glass (excluding tempered glass), marble, granite, and terrazzo. The included drill guide ensures accurate positioning and stability during operation, making it suitable for both professional and DIY applications.



Image: The complete Diamond Hole Saw Kit, showcasing the various drill bits, the double suction cup guide jig, and the cleaning screwdriver.

Package Contents

Your MARSBASE Diamond Hole Saw Kit includes the following components:

- **15 x Professional Integrated Steel Diamond Hole Saws:** Ranging in various sizes for different drilling needs.
- **1 x Double Suction Cups Ceramic Tile Hole Locator:** A guide jig designed for precise positioning of hole saws.
- **1 x Screwdriver:** Used for cleaning debris from the hole saw after drilling.
- **1 x Product Manual:** This instruction guide.



Image: A detailed view of the 15 diamond hole saws included in the kit, showing their various sizes and diamond-coated edges.

Setup Instructions

Proper setup of the hole saw guide jig is crucial for accurate and safe drilling. Follow these steps:

1. **Prepare the Surface:** Ensure the drilling surface (tile, glass, etc.) is clean and free of dust or debris.
2. **Mark the Hole Point:** Use a marker to clearly indicate the exact center point where you intend to drill the hole.
3. **Adjust the Guide Jig:**
    - Select the appropriate hole saw size for your task.
    - Place the selected hole saw into the positioning hole of the guide jig.
    - Adjust the chuck positioning knob and the positioning shaft wheel to securely hold the hole saw in place. The guide jig is adjustable from 4mm to 83mm (0.16-3.27 inches).
4. **Secure the Guide Jig:** Press the double suction cups firmly onto the clean, smooth surface. Ensure all air is exhausted from under the suction cups before pulling down the handles to lock them, providing a strong and stable

hold.

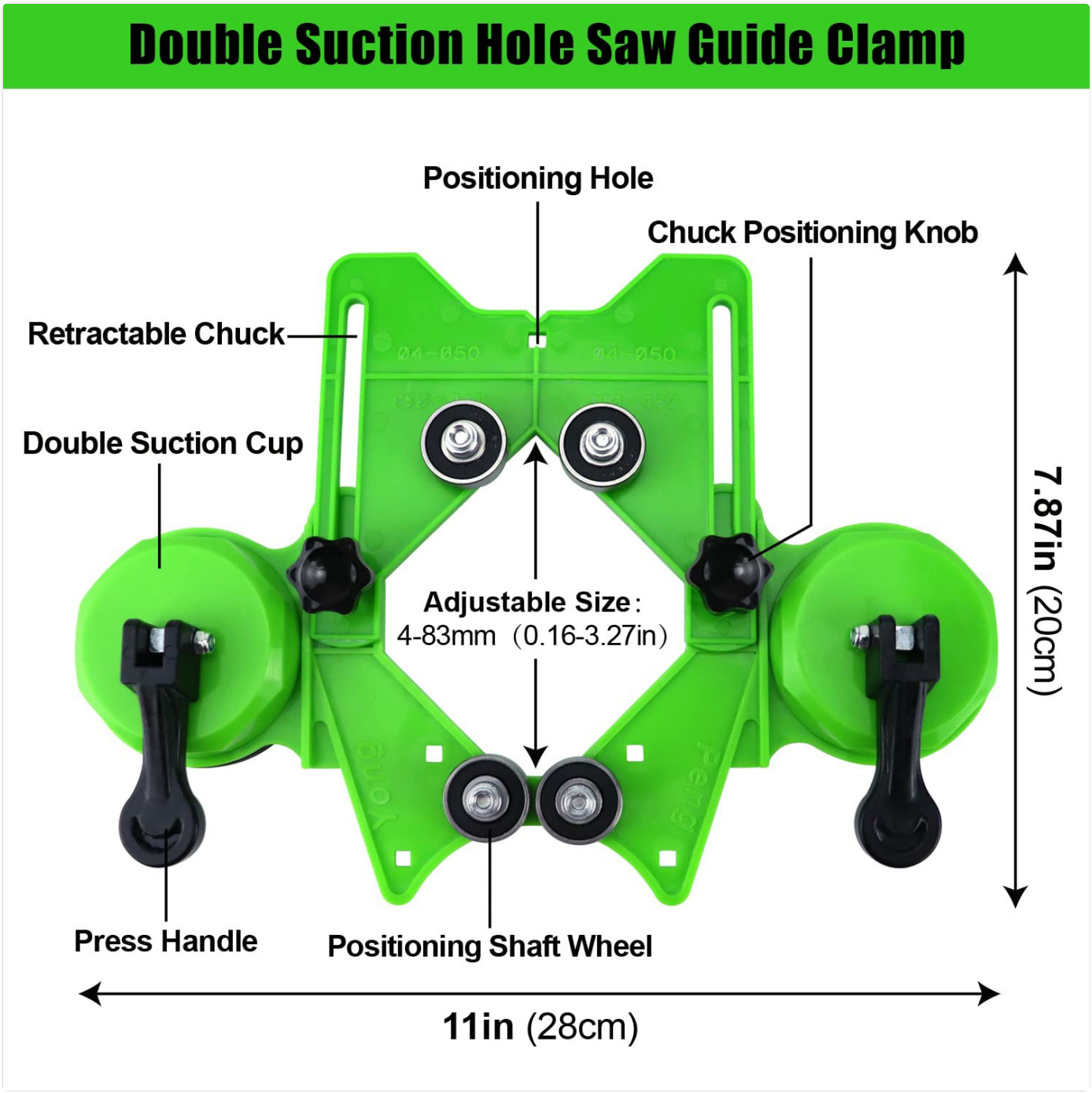

Image: A detailed diagram of the double suction hole saw guide clamp, highlighting its adjustable features and dimensions.

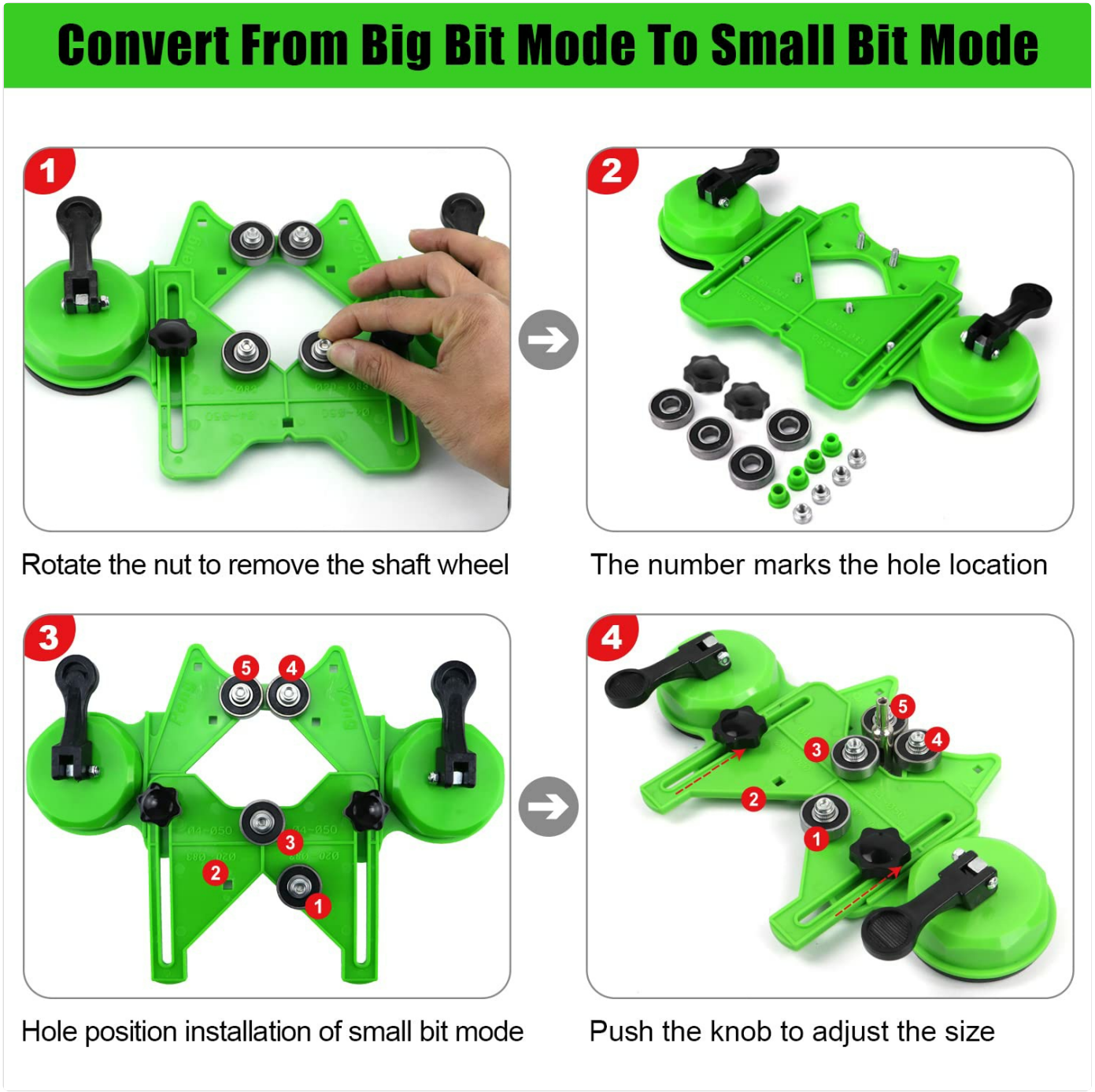

Image: Visual instructions demonstrating how to convert the guide jig between big bit and small bit modes by adjusting the shaft wheels.

Operating Instructions

Follow these steps for effective and safe drilling:

1. **Lubrication is Key:** Always ensure continuous water lubrication during drilling. This extends the service life of the diamond hole saw and prevents overheating and cracking of the material. Keep the surface wet with water or coolant throughout the process.
2. **Start Drilling:** With the guide jig securely in place and the hole saw inserted, begin drilling at a slow speed. Apply gentle, consistent pressure.
3. **Maintain Speed and Pressure:** Once the hole saw has started to cut into the material, you can gradually increase the drill speed. Avoid excessive pressure, as this can damage the bit or the material.
4. **Complete the Cut:** Continue drilling until the hole is complete. As you approach the end of the cut, slow down the drill speed to prevent chipping or breaking the material.

5. **Remove the Tool:** Once the hole is sawed, carefully remove the drill and then release the suction cups from the guide jig.



Image: A visual guide showing the four easy steps for using the kit: marking the hole, setting up the locator, drilling, and job completion.



Image: A user demonstrating the drilling process on a tile surface, with the drill bit positioned within the guide jig for stability.

Maintenance

Proper maintenance ensures the longevity and performance of your diamond hole saw kit:

- **Clean After Use:** After each use, utilize the included screwdriver to clean any debris or material residue left inside the hole saw. This prevents buildup and maintains cutting efficiency.
- **Water Lubrication:** Always use water lubrication during drilling. This not only aids in cutting but also helps to cool the diamond coating, significantly extending the life of the hole saw.
- **Storage:** Store the hole saws and guide jig in a dry place to prevent corrosion. The kit comes with a case for organized storage.
- **Inspect for Wear:** Periodically inspect the diamond coating on the hole saws for signs of wear. Replace bits that show significant wear to maintain optimal performance and prevent damage to materials.

Troubleshooting

Here are some common issues and their solutions:

- **Hole Saw Not Cutting Effectively:**
  - Ensure sufficient water lubrication is being applied.
  - Check if the diamond coating is worn. If so, the bit may need replacement.
  - Verify that the correct drill speed is being used for the material.
- **Material Cracking or Chipping:**
  - Reduce drilling pressure.
  - Ensure continuous water lubrication to prevent overheating.
  - Slow down the drill speed, especially when starting and finishing the cut.
  - Confirm the material is compatible with diamond hole saws (e.g., not tempered glass).
- **Guide Jig Not Sticking:**
  - Ensure the surface is clean, dry, and smooth.
  - Press down firmly on the suction cups to expel all air before locking the handles.
  - Check for any damage to the suction cups.
- **Debris Accumulation in Hole Saw:**
  - Use the provided screwdriver to clear debris after each use.
  - Ensure the large clearance holes are not blocked during operation.

Specifications

Product Name	Diamond Hole Saw Kit 17PCS Tile Drill Bits Sets
Model Number	17PCS Tile Hole Saw Sets
Brand	MARSBASE
Material	Diamond integrated steel
Compatible Materials	Ceramic, Glass (Except tempered glass), Tile, Porcelain, Marble, Granite, Thin Wood
Product Dimensions	11"L x 7"W (Guide Jig)
Adjustable Guide Size	4 mm - 83 mm (0.16 - 3.27 inches)
UPC	748521545272
Manufacturer	Ningguo small monkey trade co. LTD

Warranty and Support

For any product inquiries, technical support, or warranty information, please contact MARSBASE customer service. Specific warranty details may vary; please refer to the product packaging or the official MARSBASE website for the most current information.

Note: No specific warranty period or contact details were provided in the product data. Please refer to the manufacturer's official channels for support.

Important Safety Information

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when operating power tools and drilling.
- Ensure the workpiece is securely clamped or stabilized before drilling.
- Never force the drill bit. Let the tool do the work.
- Disconnect power tools from the power source before changing bits or performing maintenance.
- Keep children and bystanders away from the work area.
- Do not use on tempered glass, as it may shatter.

Additional Resources

For more information and product updates, visit the official MARSBASE store:

MARSBASE Store on Amazon

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Model: 17PCS Tile Hole Saw Sets