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TACKLIFE PHS01C

TACKLIFE PHS01C Hole Saw Kit User Manual

Model: PHS01C | Brand: TACKLIFE

1. IMPORTANT SAFETY INSTRUCTIONS

Read all safety warnings and instructions before using this hole saw kit. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection.
- Ensure the workpiece is securely clamped before drilling to prevent movement.
- Use the correct hole saw size for the application.
- Do not use this kit on hard materials such as metal, concrete, or hardwood. It is designed for soft wood, PVC board, and plastic plates only.
- Maintain a firm grip on the drill and apply steady, even pressure.
- Keep hands and loose clothing away from rotating parts.
- Disconnect the power tool from the power source before changing accessories or performing maintenance.
- Ensure the drilling depth does not exceed 25mm.

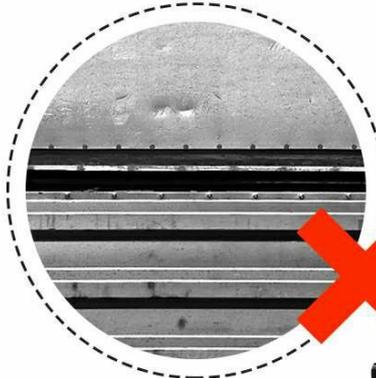
2. PACKAGE CONTENTS

Verify that all items are present in your TACKLIFE PHS01C Hole Saw Kit:

- 12 x Hole Saw Blades (Sizes: 19mm, 22mm, 28mm, 32mm, 38mm, 44mm, 51mm, 64mm, 76mm, 89mm, 102mm, 127mm)
- 2 x Mandrels
- 1 x Installation Plate
- 1 x Hex Key
- 1 x Storage Case

Perfect For Soft Material

Ideal for making hole on most soft materials ,such as soft wood, PVC board and plastic plate and so on



Hard material
(sheet metal,
hard wood)



The drilling depth should be $\leq 25\text{mm}$

Image: The complete TACKLIFE PHS01C Hole Saw Kit neatly organized within its durable storage case.

Complete In Specifications

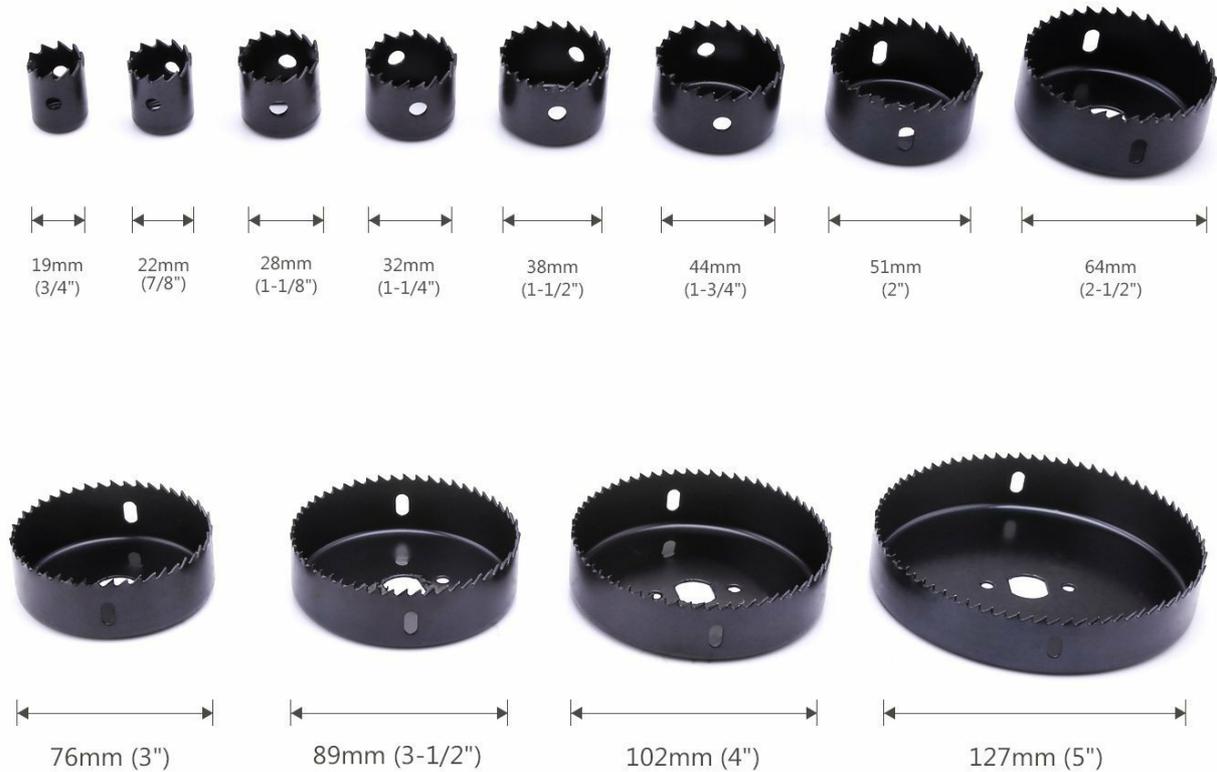


Image: A visual representation of all 12 hole saw blades included in the kit, ranging from 19mm (3/4") to 127mm (5").

3. PRODUCT OVERVIEW & USAGE GUIDELINES

The TACKLIFE PHS01C Hole Saw Kit is designed for creating clean, precise holes in specific materials. Understanding its intended use is crucial for optimal performance and safety.

3.1 Intended Materials

This hole saw kit is specifically engineered for drilling into:

- Soft Wood
- PVC Board
- Plastic Plates

DO NOT USE on hard materials such as sheet metal or hardwood, as this can damage the hole saws and lead to injury.

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--The Future of Tools--



Image: A visual guide indicating the appropriate materials (soft wood, PVC board, plastic plate) for drilling with this kit, and explicitly showing hard materials like sheet metal and hardwood as unsuitable.

3.2 Key Features

- **High Carbon Steel Construction:** Provides durability and sharpness for effective cutting.
- **Heat Treatment Finishing:** Enhances the service life and cutting performance of the saw blades.
- **Curve Design:** Helps maintain a straight cut when punching holes.
- **Upgraded Mandrel Design:** Features a center axis with a drill bit for precise pilot drilling and easy replacement.

Sharp Saw And Neat Opening

Premium carbon steel with heat treatment finishing, provides adequate service life and high sharpness

Curve design to keep straight when punching holes



Image: A detailed view of a hole saw blade, highlighting its sharp teeth and curved design for clean and straight cuts.



Image: Two mandrels, showcasing their upgraded design with integrated pilot drill bits for accurate starting holes.

4. SETUP AND ASSEMBLY

Follow these steps to correctly assemble the hole saw with your drill:

1. **Select Components:** Choose the appropriate size hole saw blade, a mandrel, and the installation plate.
2. **Attach Mandrel to Saw Blade:** Screw the mandrel securely into the base of the selected hole saw blade. Ensure it is tightened firmly.
3. **Add Installation Plate:** Slide the installation plate onto the mandrel, positioning it between the hole saw blade and the nut. The plate helps stabilize the saw and prevent over-drilling.
4. **Secure with Nut:** Tighten the nut onto the mandrel to firmly secure the installation plate and hole saw blade. Use the provided hex key if necessary.
5. **Insert into Drill Chuck:** Insert the mandrel's shank into the chuck of your power drill. Tighten the drill chuck securely to prevent slippage during operation.

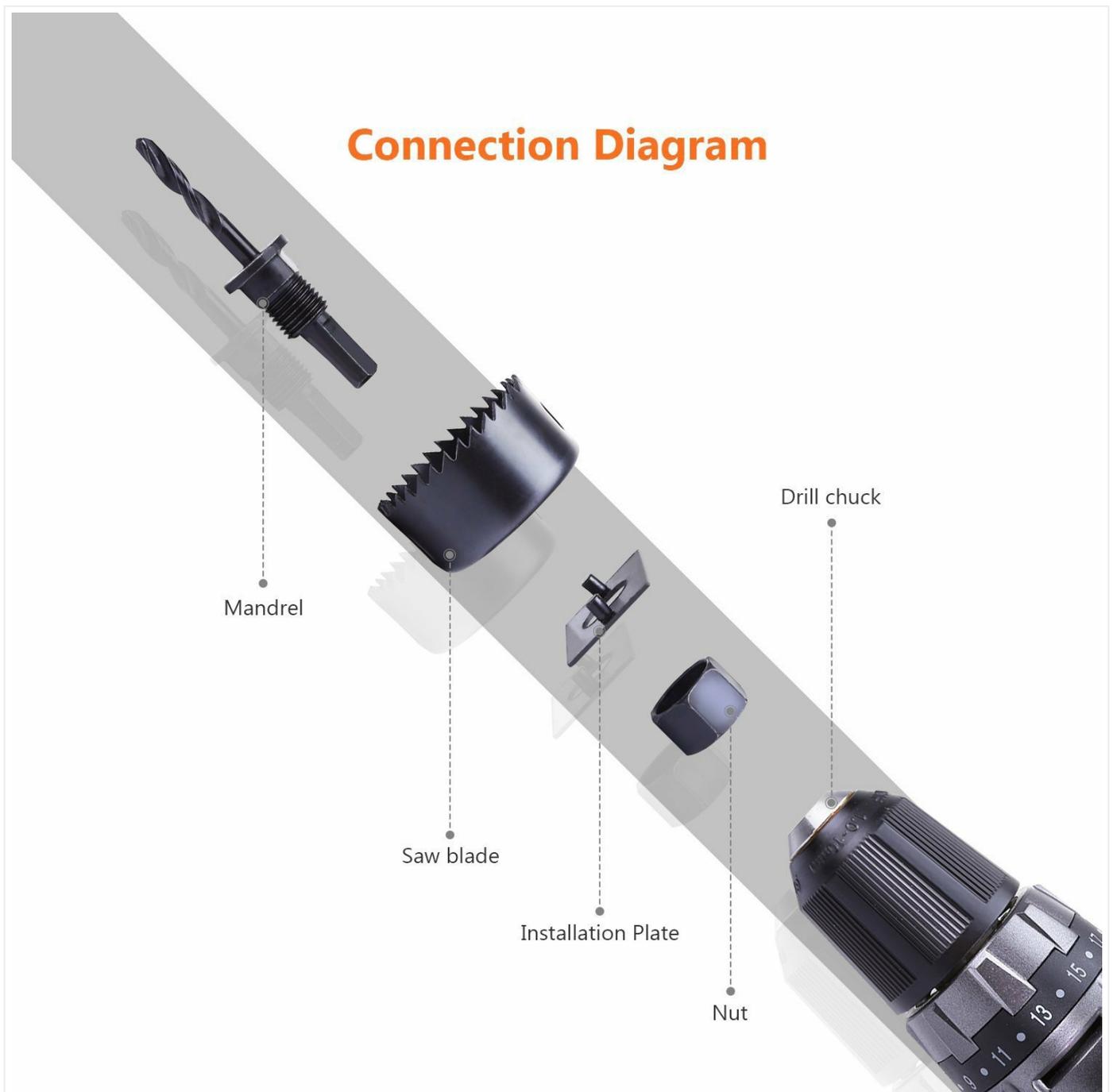


Image: A detailed connection diagram illustrating the correct assembly sequence of the mandrel, saw blade, installation plate, and nut, ready for attachment to a drill chuck.

5. OPERATING INSTRUCTIONS

Once assembled, follow these steps for safe and effective drilling:

1. **Prepare Workpiece:** Securely clamp the material you intend to drill. Mark the center point for your hole.
2. **Position Drill:** Place the pilot drill bit of the assembled hole saw onto the marked center point.
3. **Start Drilling:** Begin drilling at a low speed, applying gentle, steady pressure. Allow the pilot bit to guide the hole saw.
4. **Increase Speed (Optional):** Once the hole saw teeth engage the material, you can gradually increase the drill speed, maintaining consistent pressure.
5. **Maintain Depth:** Ensure the drilling depth does not exceed 25mm. The installation plate can help prevent over-drilling.

6. **Clear Debris:** Periodically withdraw the drill to clear sawdust or plastic shavings, especially when drilling deeper holes.
7. **Complete Hole:** Continue drilling until the hole is complete. Once through, release the drill trigger and allow the saw to stop rotating before withdrawing it from the material.
8. **Remove Core:** After drilling, carefully remove the cut material (core) from inside the hole saw. Use a screwdriver or similar tool to push it out through the side slots if necessary.



Image: The hole saw in action, drilling a clean hole into a piece of soft wood. Note the recommended drilling depth of $\leq 25\text{mm}$.



Image: The hole saw being used to drill into a PVC pipe, demonstrating its effectiveness on plastic materials. The drilling depth should not exceed 25mm.

6. MAINTENANCE

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

- **Cleaning:** After each use, clean the hole saw blades and mandrels. Remove any accumulated sawdust, plastic shavings, or debris. A brush can be helpful.
- **Inspection:** Regularly inspect the saw blades for signs of wear, damage, or dullness. Check mandrels for bends or damage.
- **Storage:** Store the kit in its original storage case in a dry place to prevent rust and protect the blades from damage.
- **Lubrication (Optional):** For extended life, a light coat of rust-preventative oil can be applied to the blades if storing for long periods in humid conditions.

7. TROUBLESHOOTING

If you encounter issues during operation, consider the following:

- **Hole Saw Not Cutting:**

- Ensure the hole saw is securely attached to the mandrel and the drill chuck.
- Verify you are drilling into a suitable material (soft wood, PVC, plastic). This kit is not for hard materials.
- Check if the blades are dull or damaged. Replace if necessary.
- Apply steady, even pressure.

- **Excessive Vibration:**

- Ensure the hole saw and mandrel are properly tightened.
- Check if the workpiece is securely clamped.
- Reduce drilling speed.

- **Pilot Bit Wobbles:**

- Ensure the pilot bit is securely fastened within the mandrel.
- Check if the mandrel is bent or damaged.

8. SPECIFICATIONS

Feature	Detail
Model	PHS01C
Brand	TACKLIFE
Material	High Carbon Steel
Number of Pieces	16 (12 Hole Saws, 2 Mandrels, 1 Installation Plate, 1 Hex Key)
Hole Saw Sizes	19mm (3/4"), 22mm (7/8"), 28mm (1-1/8"), 32mm (1-1/4"), 38mm (1-1/2"), 44mm (1-3/4"), 51mm (2"), 64mm (2-1/2"), 76mm (3"), 89mm (3-1/2"), 102mm (4"), 127mm (5")
Max. Drilling Depth	25mm
Suitable Materials	Soft Wood, PVC Board, Plastic Plate
Unsuitable Materials	Hardwood, Sheet Metal, Concrete, Tile
Item Weight	0.28 g
Package Dimensions	20.95 x 14.6 x 4.44 cm

9. WARRANTY AND SUPPORT

For warranty information, technical support, or any questions regarding your TACKLIFE PHS01C Hole Saw Kit, please refer to the contact information provided with your purchase or visit the official TACKLIFE website. Keep your purchase receipt as proof of purchase for warranty claims.

