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› CCLIFE 9-Piece HSS Bi-Metal Hole Saw Set (Model 2724) Instruction Manual

CCLIFE 2724

CCLIFE 9-Piece HSS Bi-Metal Hole Saw Set Instruction Manual

Model: 2724

INTRODUCTION

Thank you for choosing the CCLIFE 9-Piece HSS Bi-Metal Hole Saw Set. This manual provides essential information for the safe and effective use of your new tool set. Please read all instructions carefully before operation and retain this manual for future reference. This set is designed for creating clean and precise holes in various materials.

PRODUCT OVERVIEW

The CCLIFE 9-Piece HSS Bi-Metal Hole Saw Set is engineered for durability and precision. It includes a selection of hole saw sizes, mandrels, and an adapter, all housed in a convenient storage case.

Components Included:

- 6 x Bi-Metal Hole Saws (Ø 22mm, 29mm, 35mm, 44mm, 51mm, 64mm)
- 2 x Mandrels with Pilot Drill Bits
- 1 x Adapter

The hole saws are constructed from high-quality bi-metal with a hardness of 63-65°HRC, ensuring a long service life. The design incorporates chip flutes for efficient chip evacuation and easy core removal, resulting in clean and professional cuts.



This image displays the complete CCLIFE 9-piece HSS Bi-Metal Hole Saw Set, neatly organized within its durable blue plastic storage case. The set includes various hole saw sizes, mandrels, and pilot drill bits.



This image provides a close-up of the two types of mandrels included in the set, alongside the six bi-metal hole saw blades, highlighting their construction and size markings.

SAFETY INSTRUCTIONS

Always prioritize safety when using power tools. Failure to follow these instructions may result in injury or damage to the tool.

- **Wear appropriate personal protective equipment:** Always wear safety glasses or goggles to protect your eyes from flying debris. Gloves are recommended for handling the hole saws.
- **Secure the workpiece:** Ensure the material you are drilling is firmly clamped to prevent movement during operation.
- **Use the correct speed:** Refer to the operating instructions for recommended RPMs for different materials and hole saw sizes. Using an incorrect speed can cause overheating, premature wear, or tool breakage.
- **Apply steady, even pressure:** Avoid excessive force, which can bind the saw or cause kickback.
- **Allow the tool to cool:** If drilling for extended periods, especially in metal, allow the hole saw and drill to cool down to prevent overheating.

- **Disconnect power:** Always disconnect the drill from the power source before changing hole saws, mandrels, or performing any maintenance.
- **Keep work area clear:** Ensure your workspace is well-lit and free of clutter to prevent accidents.

SETUP

Proper assembly of the hole saw set is crucial for safe and effective operation.

Assembling the Hole Saw:

1. Select the appropriate hole saw blade and mandrel for your task.
2. Thread the hole saw blade onto the mandrel until it is securely tightened.
3. Ensure the pilot drill bit is firmly secured within the mandrel.
4. Insert the mandrel shank into your drill chuck and tighten securely.



A visual guide illustrating the step-by-step assembly of a CCLIFE hole saw, showing how the saw blade, pilot drill bit, and mandrel connect to a power drill.

Replacing the Pilot Drill Bit:

The pilot drill bit can be replaced if it becomes dull or damaged.

1. Loosen the locking screw on the mandrel using a slotted screwdriver.
2. Remove the old pilot drill bit.
3. Insert the new pilot drill bit into the mandrel.
4. Tighten the locking screw firmly to secure the new pilot drill bit.

Product Details

Φ22MM-64MM



4 SLOT DESIGN



Stamped Markings



AHARP SERRATION

This image details the process of replacing the pilot drill bit on the mandrel, emphasizing the use of a slotted screwdriver for secure attachment.

OPERATING INSTRUCTIONS

Follow these guidelines for optimal performance and safety when using your hole saw set.

Material Compatibility:

This hole saw set is suitable for cutting holes in a variety of materials, including:

- Stainless Steel
- Metal (e.g., light metal, cast iron, brass, aluminum)
- Wood (e.g., hardwood, density board)
- PVC Panels
- Plastic



An illustrative image showing the versatility of the CCLIFE hole saw set, indicating its suitability for cutting through various materials such as hardwood, density board, different metals, and thin PVC sheets.

Recommended RPMs (Revolutions Per Minute):

Using the correct speed is critical for efficient cutting and prolonging the life of your hole saws. The following table provides recommended RPMs for different materials and hole saw diameters. **Note: Always use coolant when drilling in metal.**

Diameter (mm)	Light Metal (RPM)	Stainless Steel (RPM)	Cast Iron (RPM)	Brass (RPM)	Aluminum (RPM)	Wood (RPM)
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Diameter (mm)	Light Metal (RPM)	Stainless Steel (RPM)	Cast Iron (RPM)	Brass (RPM)	Aluminum (RPM)	Wood (RPM)
22	390	195	260	520	585	3000
29	300	150	200	400	450	2700
35	250	125	165	300	375	2400
44	195	95	130	260	290	2100
51	170	85	115	230	255	2000
64	135	65	90	180	205	1800

How to Assemble?



A comprehensive table outlining the recommended rotational speeds (RPM) for each hole saw diameter when cutting through light metal, stainless steel, cast iron, brass, aluminum, and wood, with a note to use coolant during drilling.

MAINTENANCE

Proper maintenance will extend the life of your CCLIFE hole saw set.

- **Cleaning:** After each use, clean the hole saws and mandrels to remove any debris, dust, or metal shavings. Use a brush or compressed air.
- **Lubrication:** For metal cutting, ensure adequate lubrication (coolant) is used during operation. After cleaning, a light coat of oil can be applied to metal parts to prevent rust, especially if storing for extended periods.
- **Storage:** Store the hole saw set in its original plastic case in a dry environment to protect it from moisture and damage.
- **Inspection:** Regularly inspect the hole saws for dull teeth or damage. Replace worn or damaged components to maintain cutting performance and safety.

TROUBLESHOOTING

Here are some common issues and their potential solutions:

- **Hole saw binds or gets stuck:** Reduce pressure, ensure the workpiece is securely clamped, and check if the correct RPM is being used for the material. For metal, ensure sufficient coolant is applied.
- **Poor cut quality or slow cutting:** The hole saw teeth may be dull or damaged. Replace the hole saw. Ensure the correct RPM is selected for the material.
- **Excessive heat or smoke:** This indicates too much friction. Reduce RPM, apply more coolant (for metal), or reduce cutting pressure. The hole saw may be dull.
- **Pilot drill bit wobbles:** Ensure the pilot drill bit is securely tightened in the mandrel's locking screw. Check if the drill bit is bent or damaged and replace if necessary.

SPECIFICATIONS

- **Model:** 2724
- **Brand:** CCLIFE
- **Material:** HSS Bi-Metal
- **Hole Saw Sizes:** Ø 22mm, 29mm, 35mm, 44mm, 51mm, 64mm
- **Cutting Depth:** 38mm
- **Hardness:** 63-65°HRC
- **Product Dimensions (L x W x H):** 24 x 18 x 8 cm
- **Weight:** 1.22 kg
- **Components:** 6 hole saws, 2 mandrels + drill bits, 1 adapter

WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support, please consult the customer service of your retailer or the manufacturer. Information on spare parts availability is currently not provided.

For further assistance, please visit the official CCLIFE store or contact their customer support channels.

[Visit the CCLIFE Store](#)

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