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› [PROLINE CM86-5/16 Carbide Tipped Rotary Masonry Drill Instruction Manual](#)

## PROLINE CM86-5/16

# PROLINE CM86-5/16 Carbide Tipped Rotary Masonry Drill Instruction Manual

Model: CM86-5/16 | Brand: PROLINE

## 1. INTRODUCTION

This manual provides essential information for the safe and effective use of your PROLINE CM86-5/16 Carbide Tipped Rotary Masonry Drill. Please read these instructions carefully before use and retain them for future reference.

### 1.1 Product Overview

The PROLINE CM86 series carbide tipped rotary masonry drills are engineered for drilling into coarse materials that produce a powder or gravel-like debris. These drills are suitable for use with standard rotary power tools and are optimized for light to medium hard building materials.

### 1.2 Key Features

- **Carbide Tipped:** For enhanced durability and cutting performance.
- **Deep Flute:** Design for efficient debris removal.
- **German Made:** Craftsmanship ensuring quality.
- **Long Length:** For deeper drilling applications.
- **Versatile:** Compatible with standard rotary power tools.



*Image: A single PROLINE CM86-5/16 carbide tipped rotary masonry drill bit, showcasing its deep flute design and carbide tip.*

## 2. SAFETY INFORMATION

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Always prioritize safety when using power tools and drill bits. Failure to follow safety guidelines can result in serious injury.

- **Wear Eye Protection:** Always wear safety glasses or goggles to protect against flying debris.
- **Wear Hearing Protection:** Use ear protection, especially during prolonged drilling operations.
- **Wear Gloves:** Protect hands from sharp edges and vibrations.
- **Secure Workpiece:** Ensure the material being drilled is firmly clamped or secured to prevent movement.
- **Use Correct Speed:** Operate your rotary power tool at the appropriate speed for the material and drill bit size.
- **Avoid Overheating:** Allow the drill bit to cool periodically, especially during continuous use, to prevent damage to the bit and workpiece.
- **Inspect Bit:** Before each use, inspect the drill bit for any signs of damage, wear, or dullness. Do not use damaged bits.
- **Disconnect Power:** Always disconnect the power tool from its power source before changing drill bits or performing maintenance.
- **Keep Work Area Clear:** Ensure your work area is well-lit and free from obstructions.

## 3. SETUP

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### 3.1 Installing the Drill Bit

1. **Ensure Power Tool is Off:** Verify that your rotary power tool is unplugged or its battery is removed.

2. **Open Chuck:** Rotate the chuck counter-clockwise to open the jaws wide enough to accept the drill bit shank.
3. **Insert Bit:** Insert the shank of the PROLINE CM86-5/16 drill bit into the chuck. Ensure it is inserted as far as possible without the flutes touching the chuck jaws.
4. **Tighten Chuck:** Rotate the chuck clockwise to securely tighten the jaws around the drill bit shank. For chucks requiring a key, use the key to ensure maximum tightness. A loose bit can be dangerous and cause inaccurate drilling.
5. **Verify Security:** Gently pull on the drill bit to confirm it is firmly seated and will not slip during operation.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Drilling Masonry Materials

1. **Select Appropriate Speed:** For masonry drilling, generally use a slower speed setting on your rotary power tool. Consult your power tool's manual for specific recommendations.
2. **Mark Drilling Location:** Clearly mark the exact spot where you intend to drill.
3. **Start Slowly:** Begin drilling at a slow speed with light pressure to create a pilot indentation and prevent the bit from wandering.
4. **Apply Steady Pressure:** Once the bit has engaged the material, increase the speed and apply steady, firm pressure. Avoid excessive force, which can overheat the bit or damage the power tool.
5. **Clear Debris:** Periodically withdraw the drill bit from the hole to allow debris to clear from the flutes. This is especially important for deep holes.
6. **Maintain Straight Angle:** Keep the drill bit perpendicular to the surface to ensure a straight hole.
7. **Cooling:** For prolonged drilling, especially in hard materials, allow the bit to cool down to prevent premature wear.
8. **Finish Drilling:** Once the desired depth is reached, slowly withdraw the drill bit from the hole while the drill is still rotating.

### 4.2 Recommended Materials

This drill bit is designed for optimal performance in:

- Light to medium hard building materials
- Materials that produce coarse powder or gravel when drilled

**Caution: Not recommended for use in materials requiring hammer drill action unless specifically designed for such use by the power tool manufacturer.**

## 5. MAINTENANCE AND STORAGE

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### 5.1 Cleaning

After each use, clean the drill bit to remove any dust, debris, or residue. A stiff brush or compressed air can be used. Ensure the bit is dry before storage.

### 5.2 Inspection

Regularly inspect the carbide tip for chipping or excessive wear. Check the flutes for any obstructions or damage. A dull or damaged bit should be replaced to ensure safety and efficiency.

## 5.3 Storage

Store drill bits in a dry environment to prevent rust. Keep them in their original packaging or a dedicated drill bit case to protect the tips and prevent accidental injury. Store out of reach of children.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Bit not drilling effectively	Bit is dull or damaged; Incorrect drilling speed; Insufficient pressure	Replace bit; Adjust drill speed; Apply steady, firm pressure
Excessive heat/smoke	Too much pressure; Incorrect speed; Debris buildup in hole	Reduce pressure; Adjust speed; Clear debris from hole
Bit wandering/not starting	No pilot indentation; Bit not perpendicular to surface	Start slowly with light pressure to create indentation; Ensure bit is straight
Bit stuck in material	Excessive force; Debris buildup	Carefully reverse drill (if applicable) or gently rock bit to free; Clear debris

## 7. SPECIFICATIONS

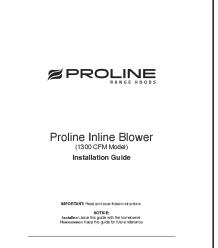
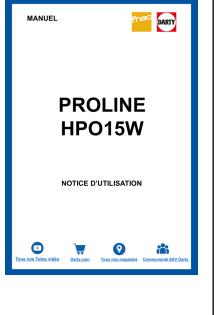
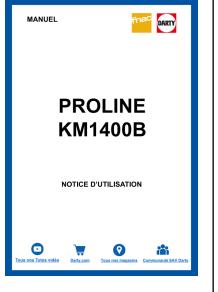
<b>Model Number</b>	CM86-5/16
<b>Material</b>	Carbide
<b>Item Dimensions (L x W x H)</b>	0.31 x 0.25 x 6 inches
<b>Item Weight</b>	1.3 pounds (for 12-pack)
<b>Item Package Quantity</b>	12
<b>Manufacturer</b>	Champion Cutting Tool Corp.
<b>UPC</b>	846035014892

## 8. WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support for your PROLINE CM86-5/16 drill bits, please refer to the manufacturer's official website or contact Champion Cutting Tool Corp. directly. Keep your purchase receipt as proof of purchase.

Manufacturer: [Champion Cutting Tool Corp.](#)

## Related Documents - CM86-5/16

	<p><a href="#"><u>Proline Inline Blower (1300 CFM Model) Installation Guide</u></a></p> <p>Comprehensive installation guide for the Proline Inline Blower (1300 CFM Model), covering inspection, mounting, ductwork connection, power wiring, safety precautions, warranty, and return policy.</p>
	<p><a href="#"><u>PROLINE L3220HD 32" LED TV User Manual</u></a></p> <p>User manual for the PROLINE L3220HD 32-inch LED TV, covering safety instructions, assembly, description, remote control functions, connections, initial setup, menu usage, multimedia mode, specifications, troubleshooting, and disposal.</p>
	<p><a href="#"><u>PROLINE HPO15W : Notice d'utilisation et instructions de sécurité</u></a></p> <p>Manuel d'utilisation complet pour la plaque chauffante électrique PROLINE modèle HPO15W. Inclut les instructions de sécurité, d'utilisation, d'entretien et les spécifications techniques.</p>
	<p><a href="#"><u>Manuel d'Utilisation PROLINE KM1400B : Guide Complet pour Robot Pâtissier</u></a></p> <p>Découvrez le manuel d'utilisation complet pour le robot pâtissier PROLINE KM1400B. Apprenez à utiliser, nettoyer et entretenir votre appareil en toute sécurité avec ce guide détaillé.</p>
	<p><a href="#"><u>PROLINE PLC325WDNFSL: Manuel d'Utilisation du Réfrigérateur Congélateur</u></a></p> <p>Guide complet pour le réfrigérateur congélateur PROLINE PLC325WDNFSL. Découvrez les instructions de sécurité, d'installation, d'utilisation, d'entretien et de dépannage pour optimiser les performances de votre appareil.</p>



## [Manuel d'utilisation PROLINE PCC6060 : Cuisinière Électrique Autonome](#)

Manuel d'utilisation détaillé pour la cuisinière électrique autonome PROLINE PCC6060. Ce guide fournit des instructions complètes sur la sécurité, l'installation, le fonctionnement, l'entretien et le dépannages pour une utilisation optimale de votre appareil.