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› [Faithfull FAIDB300PRO Professional Diamond Cutting Blade 300mm \(12 Inch\) Instruction Manual](#)

## Faithfull FAIDB300PRO

# Faithfull FAIDB300PRO Professional Diamond Cutting Blade 300mm (12 Inch) Instruction Manual

Model: FAIDB300PRO

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## 1. INTRODUCTION

This instruction manual provides essential information for the safe and effective use of your Faithfull FAIDB300PRO Professional Diamond Cutting Blade. Please read this manual thoroughly before installation and operation to ensure proper handling, maximize performance, and prolong the life of the blade. Retain this manual for future reference.

## 2. SAFETY INFORMATION

**WARNING: Failure to follow these safety instructions may result in serious injury or property damage.**

- **Always wear suitable personal protective equipment (PPE)** including safety glasses, hearing protection, dust mask, and heavy-duty gloves when operating cutting equipment.
- Ensure the diamond blade is correctly matched to the power tool's specifications (bore size, maximum RPM).
- Inspect the blade for damage, cracks, or excessive wear before each use. Do not use a damaged blade.
- Ensure the blade is securely mounted on the power tool, following the tool manufacturer's instructions. Observe the correct direction of blade rotation as indicated on the blade.
- Keep bystanders away from the work area.
- Maintain a firm grip on the power tool and ensure stable footing.
- Avoid forcing the blade through material; allow the blade to cut at its own pace.

- Disconnect the power tool from the power source before changing blades or performing maintenance.
- Store blades in a dry, safe place away from children.



Figure 1: Faithfull FAIDB300PRO Diamond Cutting Blade. Note the "ALWAYS WEAR SUITABLE PROTECTION" marking on the blade.

### 3. PRODUCT OVERVIEW

The Faithfull FAIDB300PRO is a professional-grade diamond cutting blade designed for demanding applications. It features 10 mm sintered diamond segments, which contribute to a longer working life and reduced frequency of blade changes. The aerated core design enhances cutting performance and assists in cooling the blade during operation.

This blade is suitable for cutting a wide range of masonry materials, including:

- Paving Slabs
- Concrete
- Brick
- Kerb Stones
- Med. Block Paviours

- Slate
- Roofing Tiles
- Concrete Lintels

# PRO SERIES

- PAVING SLABS
- KERB STONES
- CONCRETE
- BRICKS



Figure 2: The Faithfull Pro Series blade is designed for cutting paving slabs, kerb stones, concrete, and bricks.

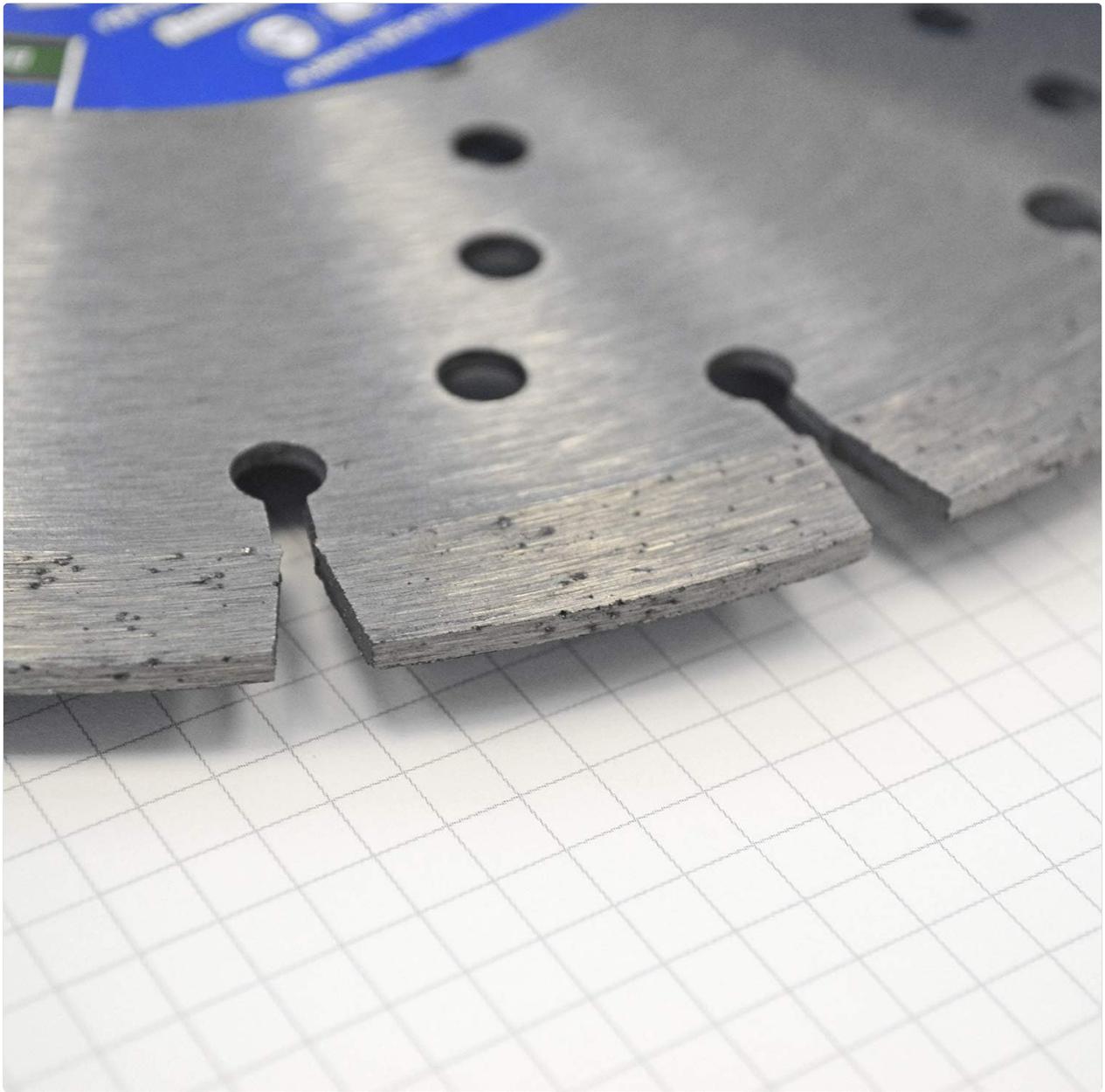


Figure 3: Close-up of the 10mm sintered diamond segments, designed for extended durability and cutting efficiency.

## 4. SETUP

Proper installation of the diamond blade is crucial for safety and performance. Always refer to your power tool's instruction manual for specific blade changing procedures.

1. **Power Disconnection:** Ensure the power tool is unplugged or its battery is removed before attempting to install or remove the blade.
2. **Blade Inspection:** Before mounting, visually inspect the Faithfull FAIDB300PRO blade for any signs of damage, such as cracks, chips, or warping. Do not use a damaged blade.
3. **Compatibility Check:** Verify that the blade's bore size (20mm) and maximum RPM (5100rpm) are compatible with your power tool. This blade is suitable for use on wall chasers, petrol cutters, bridge saws, table saws, tile saws, and angle grinders.
4. **Mounting:** Place the blade onto the spindle of the power tool, ensuring the arrow indicating the direction of rotation on the blade matches the rotation direction of the tool.
5. **Secure Fastening:** Use the appropriate flanges and tightening nut to secure the blade firmly. Do not overtighten.

6. **Test Spin:** After installation, briefly run the tool in a safe area to ensure the blade is properly seated and runs without excessive wobble or vibration.

## 5. OPERATING INSTRUCTIONS

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Follow these guidelines for effective and safe operation of your Faithfull diamond cutting blade:

- **Workpiece Security:** Always secure the material you are cutting to prevent movement during operation.
- **Starting the Cut:** Allow the power tool to reach full operating speed before engaging the blade with the workpiece.
- **Cutting Technique:** Apply steady, moderate pressure. Avoid excessive force, which can overheat the blade, reduce cutting efficiency, and shorten blade life. Let the diamond segments do the work.
- **Dry/Wet Application:** This blade is designed for both dry and wet cutting applications. For wet cutting, ensure adequate water flow to cool the blade and suppress dust. Wet cutting generally extends blade life and provides a cleaner cut.
- **Cooling Breaks:** For dry cutting, especially on hard materials, take periodic breaks to allow the blade to cool down. Running the blade freely in the air for a few seconds can help dissipate heat.
- **Dust Control:** When dry cutting, use appropriate dust extraction equipment or work in a well-ventilated area to minimize inhalation of dust particles.

## 6. MAINTENANCE

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Regular maintenance ensures optimal performance and safety of your diamond blade.

- **Cleaning:** After each use, clean the blade to remove any accumulated debris or slurry. For wet cutting, rinse thoroughly with water. For dry cutting, use a brush to remove dust.
- **Inspection:** Periodically inspect the diamond segments for wear. When the diamond segments are significantly worn down, or the steel core becomes exposed, the blade should be replaced. Check for any signs of cracks in the steel core or segment loss.
- **Storage:** Store the blade in a dry environment to prevent rust. Keep it protected from impacts that could damage the segments or warp the blade.

## 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Slow cutting or blade not cutting	<ul style="list-style-type: none"><li>• Blade is glazed (diamonds are not exposed)</li><li>• Incorrect blade for material</li><li>• Insufficient power from tool</li></ul>	<ul style="list-style-type: none"><li>• Dress the blade by cutting into an abrasive material like an abrasive block or soft brick.</li><li>• Ensure blade is suitable for the material being cut.</li><li>• Check tool's power supply and condition.</li></ul>

Problem	Possible Cause	Solution
Excessive blade wear	<ul style="list-style-type: none"> <li>Overheating (dry cutting without breaks)</li> <li>Too much pressure applied</li> <li>Cutting material that is too hard</li> </ul>	<ul style="list-style-type: none"> <li>Allow blade to cool periodically. Consider wet cutting.</li> <li>Reduce cutting pressure.</li> <li>Verify blade suitability for material.</li> </ul>
Blade wobble or vibration	<ul style="list-style-type: none"> <li>Improperly mounted blade</li> <li>Damaged blade or flanges</li> <li>Worn spindle on power tool</li> </ul>	<ul style="list-style-type: none"> <li>Re-mount blade, ensuring correct direction and secure fastening.</li> <li>Inspect blade and flanges for damage; replace if necessary.</li> <li>Consult power tool manual or service center.</li> </ul>

## 8. SPECIFICATIONS

<b>Model Number</b>	FAIDB300PRO
<b>Brand</b>	Faithfull
<b>Diameter</b>	300 mm (12 Inch)
<b>Bore Size</b>	20.00 mm
<b>Segment Height</b>	10 mm
<b>Material</b>	Diamond (Sintered Segments)
<b>Application</b>	DRY/WET
<b>Maximum Rotational Speed</b>	5100 rpm (80 m/s)
<b>Item Weight</b>	1.49 Kilograms (3.28 pounds)
<b>Product Dimensions</b>	9.06"L x 11.81"W (approx. 23cm x 30cm)

## 9. WARRANTY AND SUPPORT

This Faithfull product is manufactured to high-quality standards. While specific warranty details are not provided in this manual, Faithfull products typically come with a manufacturer's warranty against defects in materials and workmanship. For warranty claims, technical support, or inquiries regarding spare parts, please contact your retailer or the Faithfull customer service department directly.

Please retain your proof of purchase for any warranty claims.

