Technical Data Sheet

Product: Primary Pro - Diamond Core Bit

Product Codes: DC78 - 78mm Diamond Core Bit | DC82 - 82mm Diamond Core Bit | DC91 - 91mm Diamond Core Bit

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Product Description

The Primary Pro Diamond Core Bit Range (DC78, DC82 & DC91) is designed for fast, accurate dry coring through brick, blockwork, masonry and lightweight concrete. Each core bit is engineered to produce the correct hole size required for Primary Pro sleeves:

- DC78 – for Primary Pro 22mm Sleeve (PS028)
- DC82 – for Primary Pro 28mm Sleeve (PS028E)
- DC91 – for Primary Pro 35mm Sleeve (PS035)

Both models use high-performance turbo diamond segments for efficient cutting, long service life and clean, consistent hole formation.

Applications

- Creating openings for Primary Pro sleeves
- Renewable/ASHP pipework routes
- General dry coring through masonry-based materials

Features & Benefits

- Accurate hole sizing for Primary Pro sleeve installation
- High-performance diamond segments for extended durability
- Fast drilling performance with reduced vibration
- Multi-slot barrel design for improved dust extraction and cooling
- Suitable for dry coring with standard compatible core-drill systems
- Provides clean, reliable penetration holes for sealing and finishing

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Technical Data

Property	DC78
Model	DC78
Hole Diameter	Ø78 mm

Diameter Tolerance	±1–2 mm
Compatible Sleeve	Primary Pro 22 mm Sleeve (PS028)
Material	Steel barrel with diamond-tipped turbo segments
Cooling Method	Dry cutting (air-cooled)
Suitable Materials	Brick, blockwork, masonry, lightweight concrete
Property	**DC82**
Model	DC82
Hole Diameter	Ø82 mm
Diameter Tolerance	±1–2 mm
Compatible Sleeve	Primary Pro 28 mm Sleeve (PS028E)
Material	Steel barrel with diamond-tipped turbo segments
Cooling Method	Dry cutting (air-cooled)
Suitable Materials	Brick, blockwork, masonry, lightweight concrete
Property	**DC91**
Model	DC91
Hole Diameter	Ø91 mm
Diameter Tolerance	±1–2 mm
Compatible Sleeve	Primary Pro 35 mm Sleeve (PS035)
Material	Steel barrel with diamond-tipped turbo segments
Cooling Method	Dry cutting (air-cooled)
Suitable Materials	Brick, blockwork, masonry, lightweight concrete

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Hole Diameter Tolerance

A tolerance of ±1–2 mm is standard for diamond core drilling due to:

- Variation in diamond segment thickness
- Slight movement or runout during drilling
- Material density differences (brick vs block)
- Progressive wear of cutting segments

This tolerance remains fully suitable for Primary Pro sleeve installation.

Installation

- Use only with drills designed for core drilling and fitted with a safety clutch
- Confirm correct arbor/adaptor compatibility
- Operate at recommended drilling speed and allow the diamond segments to cut naturally
- Avoid excessive feed pressure
- After drilling, clear dust/debris before installing the Primary Pro sleeve

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Storage & Handling

- Store in a dry environment to prevent corrosion
- Avoid impacts that may distort the barrel
- Inspect diamond segments regularly for wear

- Ensure arbor threads are kept clean and undamaged

Health & Safety

- Always wear PPE: eye protection, dust mask, gloves and hearing protection
- Do not use hammer action when dry coring
- Secure footing and maintain firm tool control
- Not recommended for reinforced concrete unless specifically stated by the drill manufacturer

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Contact

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