



### Product Overview

The Diamond Core Drilling Machine is a heavy-duty drilling system designed for wet core drilling applications in reinforced concrete, natural stone, asphalt, masonry, and other construction materials. Equipped with a powerful water-cooled motor and three-speed gearbox, the system delivers reliable performance for demanding construction, civil engineering, plumbing, electrical, and mechanical installation projects.

Its robust design, overload protection system, and IP55-rated construction make it suitable for continuous operation, including overhead drilling applications under challenging site conditions.

### Applications

- Reinforced Concrete Core Drilling
- Natural Stone Drilling
- Asphalt Coring
- Civil Engineering Projects
- Plumbing Installations
- Mechanical Services Installation
- Electrical Conduit Installation
- Construction and Infrastructure Development
- Utility and Maintenance Works

### Key Features

#### High-Power Performance

- Powerful 3000 W motor designed for heavy-duty drilling operations.
- Suitable for large-diameter core drilling applications.

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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**Water-Cooled Motor**

- Efficient water-cooled motor construction.
- Enhanced heat dissipation during prolonged operation.
- Improves service life and operational reliability.

**Three-Speed Gearbox**

- Three-speed oil-bath gearbox for optimum torque and speed selection.
- Allows efficient drilling across a wide range of materials and hole diameters.

**Overload Protection**

- Integrated overload protection system safeguards the motor from excessive load conditions.
- Enhances equipment durability and operator safety.

**Mechanical Gear Protection**

- Robust gear operation with mechanical protection mechanism.
- Ensures smooth power transmission and extended gearbox life.

**Flexible Water Connection**

- Water connection can be mounted in different positions.
- Facilitates convenient setup in various drilling orientations.

**IP55 Protection Class**

- Designed to Protection Class IP55.
- Suitable for wet drilling operations and overhead drilling applications.
- Provides protection against dust ingress and water exposure.

**Heavy-Duty Drill Stand**

- Rigid drilling column provides excellent stability and drilling accuracy.
- Suitable for precision core drilling operations.

**Technical Specifications**

Parameter	Specification
Machine Type	Diamond Core Drilling Machine
Drilling Method	Wet Core Drilling
Input Voltage	220 – 240 V AC
Motor Power Input	3000 W

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Parameter	Specification
Drilling Diameter Range	40 – 350 mm
Rated Speeds	230 / 500 / 1030 rpm
No-Load Speeds	250 / 580 / 922 rpm
Gearbox	3-Speed Oil Bath Gearbox
Cooling System	Water-Cooled Motor
Spindle Connection	1¼" UNC
Protection Class	IP55
Column Length	995 mm
Machine Weight	30.9 kg
Overload Protection	Yes
Mechanical Gear Protection	Yes
Adjustable Water Connection	Yes

### Construction Features

#### Motor Assembly

- Heavy-duty water-cooled motor.
- Designed for continuous industrial operation.
- Optimized for high torque output.

#### Drilling Stand

- Precision-engineered column construction.
- Provides excellent rigidity and drilling accuracy.
- Supports large-diameter core drilling applications.

#### Gear System

- Oil-bath lubricated transmission.
- Three selectable operating speeds.
- Long service life with reduced maintenance requirements.

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**Standard Accessories / Core Drill Bits**

The Diamond Core Drilling Machine can be supplied with the following diamond core bits for drilling and sample extraction applications:

Sr. No.	Description
1	Diamond Coring Bit for <b>38 mm Diameter × 350 mm Long Core</b> , permanently attached head, <b>1¼" W</b> connection
2	Diamond Coring Bit for <b>50 mm Diameter × 450 mm Long Core</b> , permanently attached head, <b>1¼" W</b> connection
3	Diamond Coring Bit for <b>75 mm Diameter × 450 mm Long Core</b> , permanently attached head, <b>1¼" W</b> connection
4	Diamond Coring Bit for <b>100 mm Diameter × 450 mm Long Core</b> , permanently attached head, <b>1¼" W</b> connection

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