

Spindle Core Drilling Machine

This spindle type core drilling machine is designed based on thousand meters series of drilling machines. It is suitable for drilling large diameter holes and small diameter holes using diamond and carbide bits, and also for engineering geology drilling, hydrogeology drilling, water well drilling and large diameter pile hole drilling.



Overview

Professional Spindle Core Drilling Machine

This high-capacity spindle-type drilling rig is engineered for deep geological exploration and precision core sampling. With a maximum drilling depth of 1000 meters and an robust hydraulic system, it provides the power and reliability required for demanding field operations. The machine features a highly modular design for easier transport, supporting both electric and diesel power configurations to suit various job site environments.

Performance Metrics

Key Performance Metrics

1000 m

Drilling Depth

4050 Nm

Max Spindle Torque

4500 kg

Max Hoist Lifting Force

Spindle Specifications

Spindle Technical Details

Specification	Value
Spindle Stroke	600 mm
Spindle Inner Diameter	96 mm
Max Pull/Push Force	10000/7500 kg

Spindle Rotation Speeds

- 87
- 160
- 230
- 270
- 334
- 500
- 710
- 1030

Power and Hydraulics

Power Options	Electric Motor 37Kw, Diesel Engine 42Kw
Hydraulic System	(32+12)L/min twin-gear pump, pressure: 80kg/cm2

Physical Dimensions

Physical Characteristics

Attribute	Measurement
Total Weight (excl. motor)	2180 kg
Max Detachable Part Weight	320 kg
Overall Dimensions	2920 x 1100 x 1840 mm