

Engineering Core Drilling Rig

This engineering drilling rig features considerable torque and a lightweight, compact structure. The mast and top-drive head move together, offering strength and rigidity, while the top-drive head has a large inner diameter.



Overview

High-Performance Engineering Drilling Rig

The DSHQ-15 engineering drilling machine is specifically engineered for large-diameter pile hole drilling, making it an essential asset for major infrastructure projects including skyscrapers, dams, harbors, and bridges. Designed for versatility, it supports both forward and reverse circulation drilling methods to accommodate various geological requirements. With a robust 37KW electric motor and high-torque capabilities, this rig delivers reliable performance and precision in demanding construction environments.

Drilling Performance

Hole Diameter Range	1500 mm
Drilling Capacity	50-100m
Maximum Torque	22100 N.m

Top Drive Head

Drive Head Speeds

- Forward: 13.5, 22.8, 40.19, 63.9, 98.5 r/min
- Reverse: 12.85 r/min

Drive Head Force Metrics

27 KN

Max Pull Force

98.3 KN

Max Push Force

Drive Head Specifications

Parameter	Value
Inner Hole Diameter	182 mm
Stroke	1000 mm

Technical Specifications

Hoist Lift Capacity	48 KN
Retracting Distance	790 mm
Oil Pump Type	SCB32/12 twin-gear oil pump
Power Unit	Y225S-4 37KW Electric Motor