

DRILLING RIG SPECIFICATIONS

ENS-100



The drill rig is designed and built in-house by Enviros Group Middle East, taking into account the demanding requirements in geotechnical investigation services and investigation boreholes up to 100-meter depth.

The drilling rig is an all-hydraulic rotary, top-head drive, with full-control of rotation torque, rotation speed, thrust and pull-back for high quality soil/sampling, rock coring and in-situ testing.

The rig is mounted on a trailer making it a light rig for efficient transport to accessible sites. Moreover, this allows the option of taking it off the trailer and mounting it on a jack-up, amphibious unit, or transporting in a container when required

Depth Capabilities

Down-hole drilling Gear (Wireline systems)	Diameters (mm) Borehole/Core	Depth Capability (m) <i>(maximum, subject to subsurface conditions)</i>
NQ	75 / 48	100
HQ	76 / 48	70
PQ	124 / 85	50
Geobor S	150 / 102	30

Transportation Dimensions and Loads

Element	Value
Weight	4,000 kg
Length	6.4 m
Width	2.0 m
Height	2.9 m

Main Winch Specifications

Element	Specification
Maximum Line Pull 1-Layer	3,100 kg
Maximum Line Pull 4-Layer	2,350 kg
Weight	145 kg
Rope Diameter	14 mm

Wire-Line Hoist Specifications

Element	Specification
Maximum Capacity	400 kg
Rope Diameter	6 mm

Water Pump Specifications

Element	Specification
Type	Piston
Maximum Continuous Pressure	30 Bar
Maximum Continuous Flow	175 liter/min

Break Clamp Specifications

Element	Specification
Maximum Push Force	100 kN (50 each cylinder)
Maximum Breaking Force	216 kN (108 each cylinder)
Maximum Clamping Diameter	220 mm
Minimum Clamping Diameter	36 mm

Accessories

Element	Specification
Mast Extension	Folding type (while transport)
Extension length	1,150 mm

