



FRASTE CRS XL

Rotary/Sonic drilling (with Geobor-S)



CompactRotoSonic HO Drill Head

Sonic frequency	0-150 Hz
Sonic output force	150 kN
Rotation speed	120 rpm
Rotation torque clockwise	2,650 Nm
Rotation torque anticlockwise	3,000 Nm

Dimensions

Folded (LxWxH) approx.	10 x 2.3 x 3.1m
Height (when drilling)	6.0 m
Weight	10,250 kg

Mast

Stroke	3.5 m
Pull-up force	80 kN
Pull-down force	68 kN
Double pulling cylinders for lifting casing	200 kN combined force
Triple hydraulic break-out clamp	60-280 mm

Safety cage meeting ISO EN 16228

Hydraulic winch

20 kN at first layer

Cable 30 m long, 10 mm diameter

Speed 100 m/min

Hydraulic jib boom with wireline winch

Wireline winch 10 kN at first layer

Cable 200 m long, 7 mm diameter

The CompactRotoSonic XL-Duo rig has a dual drill head, enabling it to carry out both sonic drilling or conventional rotary drilling (conventional or wireline) for geotechnical investigations.

Sonic drilling uses rotation and vibrations to liquefy a narrow zone of soil and cuttings around the drill string and bit, reducing friction and making it faster and easier to drill through a wide range of soil and rock. The reduction in friction also makes it easier to withdraw the drill string on completion of the borehole, even in difficult ground.

While compatible with mud or air flush, water can be used (and in some cases no flush at all), making the technique ideal for environmentally-sensitive sites.

Sonic drilling maintains the verticality of the borehole, enabling long and continuous samples to be taken. The rig is also fitted with a SPT hammer with a blow count meter on control panel.