



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	55 m/s
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.