



# CompactRotoSonic XL140 DUO

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OPEX ROI  
calculation!



# CRS XL140 DUO: Multi-purpose sonic rig

- Mineral sampling
- Environmental exploration
- Geotechnical sampling and testing
- Geo-constructional drilling
- Seismic drilling
- Customized solutions

The CompactRotoSonic crawler XL140 DUO (CRS XL140 DUO) is equipped with a CompactRotoSonic drillhead as well as a four speed rotation head. Easy change from Sonic drillhead to rotary head by shifting trolleyboard. To combine Sonic sampling and diamond core drilling in the same borehole.



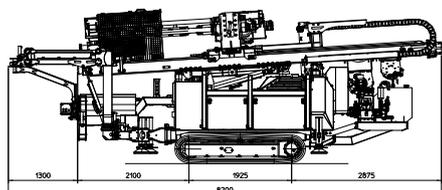
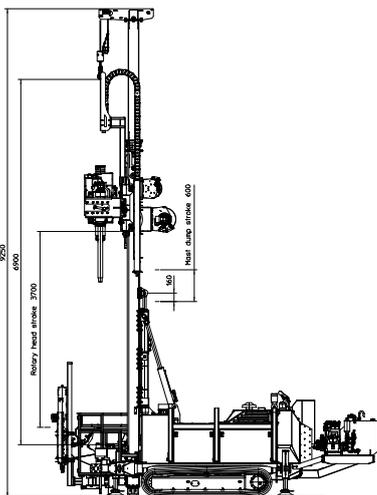
CompactRotoSonic HO Drill head	Metric	Imperial
Max. frequency	0 - 150 Hz	0 - 150 Hz
Sonic vibration oscillator output force	150 kN	33.8 k lbf
2 eccentrics, mechanically synchronized		
Rotation torque: clockwise 0-120 rpm	2,650 Nm @ 185 bar	1,955 ft-lbf @ 2,680 psi
Rotation torque: counter clockwise	3,000 Nm @ 210 bar	2,210 ft-lbf @ 3,045 psi
Head tilt max.	70°	70°
Type of damper / buffer	rubber 4x	rubber 4x
Max. hydraulic pressure on sonic	230 bar	3,335 psi
Mass of head	600 kg	1,350 lbf
Pull up force in combination with sonic	5,000 daN	11,240 lbf
Pull down force in combination with sonic	5,000 daN	11,240 lbf
Pull up force static	10,000 daN	22,480 lbf
Pull down force static	5,500 daN	12,400 lbf
Drilling under angle perpendicular driving direction	10°	10°
Advised power from rig engine	127 kW	170 HP

4-Speed rotary drill head	Metric	Imperial
Hydraulically driven in serial or parallel mode mechanical 2 speed selection		
Shock absorber		
Sub saver from rotary spindle		
Air / Mud swivel, inlet available	35 mm	1 3/8"
Torque / speed to select from	450 Nm @ 840 rpm to 5,600 Nm @ 65 rpm	331 ft-lbf @ 849 rpm to 4,130 ft-lbf @ 65 rpm

Gear ratio	1 <sup>^</sup> speed		2 <sup>^</sup> speed		3 <sup>^</sup> speed		4 <sup>^</sup> speed	
	daNm	rpm	daNm	rpm	daNm	rpm	daNm	rpm
1 <sup>^</sup>	35	950	70	425	125	270	250	135
2	42	860	84	430	150	240	300	120
3	55	700	110	350	190	200	370	100
4	68	540	136	270	240	150	480	75
5	80	430	160	215	290	120	580	60
6	100	340	200	170	355	100	710	50
7	115	270	230	135	410	80	820	40

Rig	Metric	Imperial
Caterpillar 4 cylinder water cooled engine, Tier 5	110 kW	148 HP
Dimensions folded (L x W x H) approx.	6,000 x 2,100 x 2,890 mm	19'8" x 6'11" x 9'6"
Height (when drilling) max.	6,000 mm	19'8"
Mass approx.	10,250 kg	22,600 lbs
Fuel tank (diesel)	170 liter	45 gallon
Load sensing hydraulic system	Yes	Yes
Control panel on turning arm	Yes	Yes
High pressure water pump	19 l/min. @ 210 bar	5 gpm @ 3,045 psi
Large flow water pump	285 l/min. @ 48 bar	75 gpm @ 700 psi
Aluminum water tank	500 liter	132 gallon
Rubber tracks	Yes	Yes
Radio remote for driving	Yes	Yes
Work lights	4	4

Mast	Metric	Imperial
Stroke	3,700 mm	12'2"
Mast dump	600 mm	24"
Pull up	100 kN	22,500 lbf
Pull down	68 kN	15,300 lbf
Pull up and down speed	30 m/min	98 ft/min
Double hydraulic break out clamp	60 - 280 mm	2 3/8" - 11"
Adjustable clamping force of	140 kN	31,500 lbf
Break out torque	38 kNm	28,000 ft-lbf
Main winch	2,000 daN, 55 m/min 30 m	4,496 ft-lbf, 180 ft/min, 98 ft





Options	Metric	Imperial
SPT auto drop hammer with blow counter on control panel		
Casing lifter mounted on break out clamp	200 kN stroke 300 mm	45,000 lbs stroke 12"
Mud pump triplex piston	285 liter @ 48 bar	75 gallon @ 700 psi
SPX40 hose pump	114 l/min @ 10 bar	30 gpm @ 145 psi
Steel tracks or rubber pads		
Triple floatable clamp	800 mm	32"
ManipAll 200 (magnetic rod loading arm) or MainAll 250		
Safety cage		
Slewable, extendable jibboom with wireline	200 m	656'
Fully remote controlled		



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