

SmallRotoSonic ML DUO

Ask for your
tailored
OPEX ROI
calculation !



SRS ML DUO: Multi-purpose sonic rig

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

The SmallRotoSonic crawler ML DUO (SRS ML DUO) is equipped with a SmallRotoSonic 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.

SRS ML DUO



SmallRotoSonic Drill head	Metric	Imperial
Max. frequency	0 - 150 Hz	0 - 150 Hz
Sonic vibration oscillator output force	150 kN	33.7 k lbf
2 eccentrics, mechanically synchronized	Included	Included
Rotation torque: clockwise 0-120 rpm	1,200 Nm @ 150 bar	885 ft-lbf @ 2,175 psi
Rotation torque: counter clockwise	1,400 Nm @ 172 bar	1,030 ft-lbf @ 2,500 psi
Head tilt max.	65°	65°
Mass of head	230 kg	517 lbs
Drilling under angle perpendicular driving direction	10°	10°

4-Speed rotary drill head	Metric	Imperial
Steel construction with transmission gears and oil bath bearings. Driven by two (2) hydraulic motors. 4-speeds selection by two mechanical gears and serial/parallel hydraulic motors connection from the control panel.		
Shock absorber		
Sub saver from rotary spindle		
Air/Mud injection swivel, inlet available	35 or 60 mm	1.38 or 2.36 in
Torque/speed to select from	35 daNm @ 950 rpm to 820 daNm @ 40 rpm	258 ft-lbf @ 950 rpm to 6,048 ft-lbf @ 40 rpm

Gear ratio	1 [^] speed		2 [^] speed		3 [^] speed		4 [^] speed	
	daNm	rpm	daNm	rpm	daNm	rpm	daNm	rpm
1 [^]	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 C3.6 diesel engine, 3600 cc displacement, 4 cylinder, turbo charged with aftercooler, water cooled. 12 V electrical system, emission class EU stage V - EPA Tier 4 Final	90 kW	120 HP
Mass approx. (depending on options)	4,500 - 6,500 kg	9,900 - 14,300 lbs
Fuel tank (diesel)	110 litres	29 gallon
Load sensing hydraulic system	Included	Included
High pressure water pump	18 l/min. @ 210 bar	4.75 gpm @ 3,045 psi
Large flow water pump	160 l/min. @ 45 bar	42 gpm @ 652 psi
Aluminum water tank	300 litres	79 gallon
Rubber tracks	width 1,900 mm	width 74.8 in
Radio remote for driving	Included	Included
Casing rack	Optional	Optional
Work lights	Included	Included

Mast	Metric	Imperial
Stroke	3,500 mm	138 in
Mast dump	500 mm	19.7 in
Pull up	6000 daN	13,489 lbf
Pull down	3100 daN	6,969 lbf
Pull up and down speed	30 m/min	98 ft/min
Double hydraulic break out clamp	40 - 245 mm	1.57 in - 9.65 in
Adjustable clamping force of	9,700 daN	21,806 lbf
Break out torque	1,300 daNm	9,588 ft-lbf





Options	Metric	Imperial
SPT auto drop hammer with blow counter on control panel		
SPX40 hose pump	114 l/min @ 10 bar	30 gpm @ 145 psi
Safety cage		
ManipAll 200 (magnetic rod loading arm)		
Casing or drill rod storage depends on diameter and length		
Triple clamp with upper floating	40-250 mm	1.57 in - 9.8 in
Static rod loader system		
Ultra low clearant mast upon request		



Eijkelkamp Customer Service Agreement

Royal Eijkelkamp provides the possibility to add a tailor fit service contract to the extensive range of machines we offer. We call these the Eijkelkamp Customer Service Agreements. We have three types of Customer Service Agreements called Start, Pro and Royal. The Royal type is a service contract that can be tailor fit to the needs of the customer. All Eijkelkamp Customer Service Agreements will be delivered with the Eijkelkamp Service Assistant, this is an advanced track & trace system that is available for use by customer and driller on site via the mobile phone application and web browser.

For more information on demos, pilot projects or personal advice contact our sales department !

For urgent service calls and/or technical information contact or special service telephone: +31 313 800 967

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