

SRS 120 (DUO) Sonic Rig

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SRS 120 (DUO): Multi-purpose sonic rig

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

The SmallRotoSonic 120 (SRS 120) excels through capturing the powerful sonic force in an extraordinarily small and manoeuvrable package. Why use direct push when 150 Hz RotoSonic delivers faster and better results and provides extremely undisturbed samples.

This rig is also available as DUO, which is equipped with both a SmallRotoSonic drillhead and a four speed rotation head. Easily change the drillheads by shifting the trolleyboard. To combine Sonic sampling and diamond core drilling in the same borehole.



SRS 120

SmallRotoSonic Drill head	Metric	Imperial
Max. frequency	0 - 150 Hz	0 - 150 Hz
Sonic vibration oscillator output force	150 kN	33 k lbf
2 eccentrics, mechanically synchronized	Yes	Yes
Rotation torque: clockwise	1,500 Nm @ 210 bar	1,106 ft-lbf @ 3,045 psi
Rotation torque: counter clockwise	1,650 Nm @ 230 bar	1,217 ft-lbf @ 3,335 psi
Head tilt max.	65°	65°
Mass of head	370 kg	830 lbs
Drilling under angle perpendicular driving direction	10°	10°

4-Speed rotary drill head (in DUO)	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 swivel, inlet available	35 or 60 mm	1.38 or 2.36 inch
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 @ 2,400 rpm
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	Yes	Yes
High pressure water pump	19 l/min. @ 210 bar	5 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 1,600 mm	width 5.3 ft
Radio remote for driving	Yes	Yes
Casing rack	Optional	Optional
Work lights	Yes	Yes

Mast	Metric	Imperial
Stroke	3,500 mm	11'6"
Mast dump	600 mm	2'
Pull up	60 kN	13,200 lbf
Pull down	31 kN	6,820 lbf
Pull up and down speed	40 m/min	130 ft/min
Triple floating break out clamp	40 - 250 mm	1.6" - 10"
Adjustable clamping force of	140 kN	31,475 lbf
Break out torque	23 kNm	16,965 ft-lbf
Main winch	1,000 daN, 50 m/min, 50 m	2,248 ft-lbf, 164 ft/min, 164 ft





Options	Metric	Imperial
SPT auto drop hammer with blow counter on control panel		
SPX40 hose pump	114 l/min @ 9.6 bar	30 gpm @ 140 psi
Safety cage		
ManipAll 200 (magnetic rod loading arm)		
Casing or drill rod storage depends on diameter and length		
Rotatable jibboom		
Static rod loader system		
Ultra low clearant mast with short stroke upon request		



Choose your configuration

Royal Eijkelkamp provides the possibility of customising your SRS 120 and SRS 120 DUO. Customise it yourself, or choose one of our standard configurations for a shorter delivery time due to our rigs in stock. We offer two standard configurations called Pro and Royal. Scan the QR-code to view a complete overview.

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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