

# CRS 140 DUO Terramac Sonic Rig



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

Our CompactRotoSonic 140 is now also available mounted on the ultra-mobile Terramac RT7U Crawler Carrier. This powerful combination delivers unmatched performance in challenging terrains, ensuring precision, mobility, and efficiency.

This DUO Sonic rig is equipped with both a CompactRotoSonic drillhead and a four speed rotation head, for sonic sampling and diamond core drilling in the same borehole.



## Unrivaled mobility and accessibility

Mounted on the Terramac RT7U, a low-ground-pressure crawler carrier, this rig provides exceptional off-road capability, making it ideal for remote and rugged locations. The crawler carrier provides the Sonic rig with higher driving speeds, very low footprint accessibility, and extreme terrain capabilities - including all kinds of obstacles.

CompactRotoSonic 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	17,985 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

R02 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	350 Nm @ 950 rpm to 8,200 Nm @ 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
Mounted on the RT7U Terramac Crawler Carrier		
Powered by the Terramac crawler's PTO - 155HP cummins stage 5 engine		
Dimensions folded (L x W x H) approx.	8,150 x 2,513 x 3,300 mm	26'9" x 8'3" x 10'10"
Height (when drilling) max.	8,100 mm	26'7"
Mass approx.	16,500 kg	36,500 lbs
Fuel tank (diesel)	151 liter	40 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	160 l/min. @ 48 bar	42 gpm @ 700 psi
Aluminum water tank	500 liter	132 gallon
Rubber tracks	Yes	Yes
Radio remote for driving	Yes	Yes
Work lights	3	3

Mast	Metric	Imperial
Stroke	3,700 mm	12'2"
Mast dump	600 mm	24"
Pull up	8,000 daN	17,985 lbf
Pull down	6,800 daN	15,300 lbf
Pull up and down speed	30 m/min.	98 ft/min.



Options	Metric	Imperial
SPX40 hose pump	114 l/min. @ 10 bar	30 gpm @ 145 psi
Double footclamp or triple footclamp	60 - 280 mm	2 3/8" - 11"
Adjustable clamping force of	14,000 daN	31,500 lbf
Break out torque	3,800 daNm	28,000 ft-lbf
Triple floating clamp stroke	800 mm	32"
ManipAll 200 RC		
Safety cage		
Wireline winch	1,000 daN, 100 m/min. 200 m	2,248 ft-lbf, 328 ft/min. 656 ft
Hydraulic winch	2,000 daN, 55 m/min. 30 m	4,496 ft-lbf, 180 ft/min. 98 ft
Radio remote control for all drilling functions		
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 Bean/FMC pump L06-18	160 l/m @ 48 bar	42 gpm @ 700 psi
Mud pump Bean/FMC pump L11-22	238 l/m @ 70 bar	75 gpm @ 1,015 psi
High pressure water pump	18 l/m @ 210 bar	5 gpm @ 3,046 psi
Full automatic SPT hammer		

## 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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