LS600 ROTA-SONIC DRILL RIG

333 litres

160 litres

150m +

Hydraulic Fluid Capacity:

Diesel Capacity:

Depth Capacity:



LS600 ROTA-	RIG GeoSonic			
LS600 ATV SUMMARY				
The main power source is a 16	rives the open centre hydraulic	During transport and tracking the control panel is covered by a lockable door.		
The drilling and set up control hand side of the machine rear	panel is mounted on the right	Emergency STOP switches are fitted on all control panels. A safety tripwire is also fitted along the length of the rod rack. Activating any of these safety devices immediately stops all functions.		
The controls and instruments conveniently positioned with indicate functionality and aid	graphic symbols used to	A rotation barrier provides protection from, and obstructs access to, the rotating drill string in tandem with pressure switches linked to the rotation feed. This allows the drill crew to open the barrier and gain access to the drill string to perform borehole advance and sample retrieval procedures, with an in built failsafe as the rotation feed is minimised at such time as the circuit is open.		
Drill rig is supported by a track contains drill rods and casing Independent jack levellers. Ma 17T, dimensions in transport at 3.60m (H).	to allow full rig functionality. ax laden weight of Marooka is	The highly efficient open centre (drill mode) hydraulic system utilises quality gear pumps and motors for maximum power transmission and competent life, drawing from a single reservoir of fully bio-degradable hydraulic fluid to lubricate and power the system.		
The drill rig has a 24V DC elect drive mode and a 12V DC circu		The hydraulically driven Boart Longyear PS150 drill head provides plenty of flexibility to perform most coring operations.		
	Curlon	CeoSoric		
LS600 ATV DIMENSION	S:	LS600 ATV MAIN FEATURES:		
Transport Mode:	L: 10.30m; W:2.66m; H:3.65m	Superficial & Bedrock Coring Capabilities		
Drill Mode (Mast Vertical):	L: 9.60m; W:3.53m; H: 10.59m	Standard or Lined Samples		
Max (laden) Weight:	20,500 kg	In-Situ Sampling (UT)		
Ground Pressure:	5.9 psi / 41 KPa	412, T2-101, SWF, Lexan & Geobor Wireline Adaptability		
Head Travel:	7.44m	Rotation Guarding, Trip Wire Switches & Emergency Stops		
Tooling Size:	88mm to 305mm (3.5"-12")	Guarded elevated working platform		

Mast with feed cylinder extension to enable 6.00m tripping

Tilt feed to allow drill string/head horizontal orientation

Fast, optimized manual rod handling, guarding & rack



LS600 ATV TECHNICAL DETAILS

Sonic Coring Head		Prime Mover		Hydraulic System	
Vibration Motor Flow	0-110 l/min @ 0-275 bar	Standard	CAT 6.6, 4 Stroke Diesel	Max Flow	240lpm @ 2300rpm
Rotation Motor Flow	0-55 I/min @ 0-275 bar	Power Maximum	167kW@2200rpm	Max Pressure	275 bar
Lubrication Motor Flow	20 l/min @ 30-60 bar	Diesel Tank Capacity	160 litres	Hydraulic Oil Volume	333 litres
Torque at 275 bar	240 da Nm	Fuel Consumption	46.6 l/h	Gear Pump Pressure	175 bar
Speed	80 rpm / 15 rpm (ROM)	Electrical Circuit	24V		
Drill Mast & Feed System		Winches		Rod Rack	
Feed Stroke	7470mm	Max Pull on Inner Layer	9.65 kN	Dimensions L x W x H	3120 X 470 X 315 mm
Feed Speed - Down	Normal / Fast	Line Speed	56 m/min	Rod Type	3.5"
Feed Pressure Control	+/- 34 N	Cable	6mm		
Fast Feed Speed - Up	25/50m/min	Rod Clamps		Marooka Support Unit	
Fast Feed Speed - Down	42/84m/min	Max. Diameter	330 mm	Dimensions (LxWxH)	6.10m x 2.75m x 3.60m
Pull Down Force	40.5 kN	Max. Capacity	129 kN	Max (laden) Weight	
Pull Back Force	67.5 kN	Max. Breaking Torque	23 kNm	Ground Pressure	63.5kg / 750mm
Dimensions & Weights (LS600 Only)		Drill Mode Dimensions (LS600 Only)		FMC Water Pump	
Length in Transport	10.30m	Length in Drill Mode	9.60m	Model	FMCL1622BCD
Height in Transport	3.65m	Height in Drill Mode	10.590m	Flow	190 lpm
Width	2.66m	Width in Drill Mode	3.530m	Pressure	60 bar
Total (Dry) Weight Approx.	20,500kg	Crawler Chassis		Speed	580 rpm
Climbing Capacity	(Grade 60%) 30° approx	Axle Distance	1800 mm	For more information on our capabilities please visit:	
Sound Level	Below 76dbA at 10m	Length	3870 mm		
Welding Generator		Width of Tracks	700 mm	www.geosonicdrilling.co.uk	
Getec		Driving Speed	7.6km/hr (L) 11km/hr (H)		

