

RIG 4

HYDCO 1000H

TRUCK MOUNTED DIAMOND DRILL RIG



TOPDRIVE DRILLERS AUSTRALIA PTY LTD
DRILLING SINCE 1976

TECHNICAL SPECIFICATIONS

These technical specifications are based on engineering calculations. Actual capacity will depend on specific drilling conditions and materials.

RIG #	4		
STANDARD FEATURES	Engine:	Cummins Diesel 6 CTA 8.3 ltr Custom Pack (260 HP @ 2,200 RPM)	
	Water Pump:	FMC John Bean L09-18HD-BCD Variable speed: Maximum 250 ltr/min @70 bar	
	Other Features:	Guarding to table with rotation shut off Guarding to all rotating items Rig safety rails including toe kicks Enclosed pulleys Drillers operating platform Fold down ladder to deck Rig lighting Electronic main winch limiter	
DIMENSIONS	Length:	14 meters	
	Width:	2.4 meters	
	Height:	4.2 meters	
	Weight:	22 tonne	
DRILLING CAPACITY CORING - WIRELINE	The technical data supplied for drilling depths, has been based on drilling data obtained from operations. The actual drilling depths reached will be dependent upon a number of factors including the rock type, drilling techniques, tools and overall conditions.		
	Drill Rod / Core Barrel	Rod Size (mm)	Core Size (mm)
	PQ	117.5	103.2
	HQ	88.9	77.8
	NQ	69.9	60.3
			Hole Depth (metres)
			500
			1000
			1500
DRILL MAST & FEED	Mast:	Fully welded lattice frame with cross bracing Mast length 10.3 metres (plus winches) Drill head travel 7.5 metres Hydraulic head slide 20mm non rotating wire ropes with hydraulic tensioning Hydco hydraulic drill rod clamps	
	Feed:	Variable feed pressure control Pull back: 19,000 kg (variable) Pull down: 12,3000 kg (variable)	
	Dump Mast:	Heavy duty 2 metre mast dump UHMWPE slides	
DRILL HEAD	2 Speed hollow spindle drillhead 2 Speed hydraulic motor Pressure lubricated - (gears hardened and ground) Speed and torque		
	0 to	1100 RPM	790 nm
	0 to	880 RPM	1,030 nm
	0 to	180 RPM	4,800 nm
	0 to	140 RPM	6,200 nm

WINCHES	<p>Main Winch: Capacity - 15,000 kg single line pull 20mm non-rotating (35 x 7 construction) Winch limiter & speed limiter - wire rope overrun cutout Planetary reduction gearbox, fail safe brake complete with over centre valve</p> <p>Wire-line Winch: Capacity - 6mm non-rotating (18 x 7 construction) 1500 metres Winch speed limiter - rope level winder Planetary reduction gearbox, fail safe brake complete with over centre valve</p>
HYDRAULIC SYSTEM	<p>Pumps: 1 x Main pump Kawasaki K3VL200 Pressure compensated load sensing 2 x Auxiliary pumps Sauer Danfoss Sunstrand Series 45 - 57 cc Pressure compensated load sensing</p> <p>Valves: Rexroth 4M4-22 main directional valve 2 x Danfoss PVG 32/8 Auxiliary valves Proportional load sensing valves Operating pressures 210 bar (3,000 PSI)</p> <p>Hydraulic Tanks: 600 ltr capacity</p> <p>Filtration: Arion pressure filtration Arion return filtration All circuits 10 micron absolute</p> <p>Oil Cooler: Hydraulic fan driven cooler</p>
CONTROL PANEL / SYSTEM	<p>All rig functions & gauges including water flow & pressures All engine controls - shut down in panel 1 Emergency stop (3 in total on rig) Hydraulically pivoting control panel</p>
CARRIER	<p>VOLVO FL10 8x4 RIGID TRUCK</p> <p>Rego/Expiry: ICXY517 / Expiry: 26/11/2011</p> <p>Year: 1989</p> <p>Colour: White</p> <p>Vin/Chasis No: YV5F2B3GXKD560587</p> <p>Engine No: TD102F788211266</p> <p>Fuel Type: Diesel</p> <p>Gearbox: Manual</p> <p>Gearbox Speed: 14 Speed</p> <p>Length: 11.7 meters</p> <p>Width: 2.5 meters</p> <p>Height: 4.29 meters</p> <p>GVM: 38,000 kg</p> <p>GCM: 32,000 kg</p> <p>Features: Turbo inter cooled 255 HP with engine live drive Cab fitted with air con</p>



SIZE AND DIMENSIONS

