



C 3000 FULL HYDRAULIC DRILLING MACHINE

DIMENSIONS AND WEIGHTS

Crawler Weight	Total Width	Total Length	Total Height	Fuel Tank	Battery	Max Speed
18.500 kg	2450 mm	11250 mm	3500 mm	* 400 L	24 V	2.2 kph

* Dimensions and weights may vary depending on options and should be checked before carting or lifting.

Drilling Depth Guidelines

Drill Rod/ Core Barrel	Hole Depth (meters)
BRO/BO	3450
NRO/NO	2600
NRO V-WALL™	3000
HRO/HO	1800
HRO V-WALL™	2250
PHD/PO	1150
PHD V-WALL™	1300

THE FIGURES IN THESE TABLE ARE ESTIMATES WHICH HAVE BEEN CALCULATED USING THE APPLICABLE PULLBACK CAPACITY OF THE DRILL AND ON AN EFFECTIVE ROCK TENSILE STRENGTHS OF 5 MPA. ACTUAL DRILLING RESULTS MAY VARY AND WILL DEPEND ON IN-HOLE TOOLS, SUBSURFACE AND OTHER ENVIRONMENTAL CONDITIONS, DRILLING TECHNIQUES AND EQUIPMENT USED. ALWAYS VERIFY MANUFACTURERS' ROD DEPTH RATINGS PRIOR TO USE.

POWER UNIT

Power Unit	Cummins, Ford, John Deere, Etc.
Power (max.) at 1800-2200 RPM	205- 235 kW

TORQUE & RPM RATINGS

Hydraulic motor at max./min. Displacement, prime mover at 2220 RPM

	Speed (no load)	Torque (stall)
1st Gear	122-199 RPM	5322-3254 Nm
2nd Gear	246-400 RPM	2648- 1620 Nm
3rd Gear	439-714 RPM	1486- 908 Nm
4th Gear	769-1250 RPM	849-519 Nm

NOTE: Head output speed and torque are infinitely variable in each gear range as indicated. Actual rotation speed is affected by RPM and hydraulic motor displacement setting.

HYDRAULIC SYSTEM

Primary Pump	Axial piston, variable displacement load sensing, pressure compensated with low pressure standby	
Max Flow		315 L/m
Max Pressure (factory setting)		30 Mpa
Secondary Pump	Axial piston, variable displacement load sensing, pressure compensated with low pressure standby	
Max Flow		90 L/m
Max Pressure (factory setting)		20 Mpa
Auxiliary Pump	Axial piston, variable displacement, pressure compensated	
Max Flow		90 L/m
Max Pressure (factory setting)		18 Mpa
Hydraulic Tank Capacity		400 l

DRILL MAST AND FEED SYSTEM

Feed Stroke		3.35 m
Max Pull Capacity		220.0 kN
Max Thrust Capacity		120.0 kN
Rod Pull		6 or 9 m
Drilling Angle		45 Degrees off horizontal to 90 degrees vertical down
Mast Dump (crowd)		2.74 m
Mast Telescope		2.87 m

DRILL HEAD

Rotation Motor		Rexroth hydraulic motor-variable/reversible
Rotations	1st Gear	6.27:1
	2nd Gear	3.12:1
	3rd Gear	1.75:1
	4th Gear	1.00:1
Final Drive		Straight cut gears
Ratio		02:01
Head Opener		Side shift style-hydraulically actuated
Hydraulic PQ Chuck		Chuck with gas spring
		Hydraulically opened, nitrogen gas spring closed
		Axial holding capacity of 222 400 N (50,000 lbf)
Drill Head		Force fed bearings, oil bath for gears
Lubricating Oil Filtration		25 micron suction oil filter - independent constant flow

MAIN WINCH

Main Line Hoist		two speed motor
Bare Drum		177.9 kN
Kaldırma Hızı (tek parça hattı) Hoisting Speed (single part line)		
Bare Drum		1.1m/s - 67m/s
Tambur Halatı Main Hoist Cable		18 or 22 mm
Min. Kirilme Dayanımı Min. Breaking Strength		508.8 kN

Note: Do not use multiple part lines with the main line hoist, use single part line ONLY.

Foot Clamp Capacity		HWT
Wire-Line Hoist	Level Wind	N/A
	Bare Drum	17.2 kN
Level Pull	Full Drum	9.5 kN
Line Speed	Bare Drum	180 m/min
	Full Drum	284 m/min
	Drum Capacity (4.8mm/316 degree swaged)	3300 m

Note: Wireline cable length to be specified at time of order

OPSIYONEL AND AUXILIARY EQUIPMENTS



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