



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
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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. Kırılma 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
Level Pull	Bare Drum 17.2 kN Full Drum 9.5 kN
Line Speed	Bare Drum 160 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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