

Technical Specification of CDR-1000

Drilling Depth Guidelines				
Drill Rod Diameter	BWL	NWL	HWL	PWL
Final Hole Diameter (mm)	60	75.7	96	122.6
Depth (mm)	1000	800	550	350
Prime Mover				
Max. Power kW @ RPM	110 kW @ 2300 RPM			
Torque & RPM Ratings				
	Speed (No Load) RPM		Torque (Stall) N.m	
1 st Gear	122 ~ 199		3878 ~ 2377	
2 nd Gear	246 ~ 400		1929 ~ 1186	
3 rd Gear	439 ~ 714		1084 ~ 666	
4 th Gear	769 ~ 1250		619 ~ 381	
Hydraulic System				
Primary Pump	Axial piston, variable displacement load sensing, pressure compensated with low pressure standby.			
Type	Rexroth A11VLO 95			
Max. Flow (LPM)	218.5			
Max. Pressure (bar)	250			
Secondary Pump	Axial piston, variable displacement load sensing, pressure compensated with low pressure standby.			
Type	Rexroth A11VLO 45			
Max. Flow (LPM)	103.5			
Max. Pressure (bar)	200			
Auxiliary Pump	Axial piston, variable displacement pressure compensated with low pressure standby.			
Type	Rexroth A10VG 28			
Max. Flow (LPM)	64.4			
Max. Pressure (bar)	200			

Drill Head				
Hydraulic Motor	Rexroth Hydraulic Motor – variable / reversible A6VM 107			
Mechanical Transmission	4-speed			
Gear	1 st	2 nd	3 rd	4 th
Ratio (4-speed Gear)	6.27	3.12	1.75	1.00
Final Drive	2:1 Gear Unit			
Hydraulic PQ Chuck	Hydraulically opened, nitrogen gas spring closed Axial holding capacity of 222,400 N Max. inside diameter = 119 mm			
Lubrication	Force fed bearings, oil bath for gears			
Lubrication Oil Filtration	25-micron suction oil filter – independent constant flow			
Drill Mast and Feed System				
Feed Stroke	1.8 m			
Feed / Retract Force	56 / 90 kN			
Rod Pull Length	3 or 6 m			
Draw Works				
Main Line Hoist	Single Speed Motor			
1/1 Hook Load (Bare Drum)	53.4 kN			
1/1 Hook Speed (Bare Drum)	45.0 m/min			
Wire Dia. / Length	16.0 mm / 20.0 m			
Wire Line Hoist	Bare Drum		Full Drum	
Hook Load (Bare Drum)	9.7		2.2	
Hook Speed (Bare Drum)	100.0		433.0	
Wire Dia. / Length	6.0 mm / 1250.0 m			
Other				
- Crawler system - Hydraulic leveling jacks - Hydraulic mast raising and dumping		- Telescopic Mast assembly - Mud Pump and Mud Mixer - Hydraulic / Fuel Tank		
Weight	9 ton			