



RHINO DRILLING INC.

MD MULTI 300 HYDRAULIC DRILLING RIG TECHNICAL SPECIFICATIONS

DRILLING CAPACITIES

	Outer Dimensions (mm)	Dry Well (m)	Wet Well (m)
BQ	55,60	600	1000
NQ	69,90	480	750
HQ	88,90	300	500
PQ	114,00	150	200



ENGINE

ENGINE MODEL	Cummins QSB 6.7 Liquid Cooled, Turbo Charged, Diesel Engine
ENGINE VOLUME	6.7 Lt
MAXIMUM POWER	220- 280 Hp @2200 rpm
FUEL TANK CAPACITY	400 Lt
EMISSION CERTIFICATION	Tier-4 Certificated
TORQUE VALUES	987 Nm @ 1500 rpm
CONTROL UNIT	ECM

HYDRAULIC FEATURES

Unit	Brand	Flow	Max Pressure
MAIN HYDRAULIC PUMP - VARIABLE DISPLACEMENT AXIAL PISTON - LOAD SENSING	KAWASAKI	80 cc	280 bar
SECOND HYDRAULIC - VARIABLE DISPLACEMENT AXIAL PISTON - LOAD SENSING	REXROTH	28 CC	280 bar
THIRD HYDRAULIC (GEAR) PUMP	CASAPPA/HEMA	23 cc	230 bar
FORTH HYDRAULIC PUMP (GEAR) PUMP	CASAPPA /HEMA	19 cc	180 bar
FIFTH HYDRAULIC (GEAR) PUMP	CASAPPA/HEMA	8 cc	180 bar
WIRE-LINE HYDROMOTOR	BREVINI /DANFOSS	310 cc	
MUD PUMP HYDROMOTOR	DANFOSS	100 cc	
MAIN WINCH HYDROMOTOR	PARKER	80 cc	
HYDRAULIC CONTROLLER UNITS	DANFOSS/ BUCHER	PROPORTIONAL	
CONTROL PANEL HYDRAULIC	SUN/ OLEOWEB		
COMPONENTS	200 LT		
HYDRAULIC TANK CAPACITY	AKG		
COOLER		Double Cooling	
FILTERS		Return, Suction, Pressure and Rotary Unit	

ROTATION UNIT (LF70 LONGYEAR TYPE)

HYDROMOTOR	80 cc	REXROTH
CHUCK INNER DIAMETER	119mm	
JAW QUANTITY	5 pcs	
AXIAL HOLDING CAPACITY	110.700 N	
JAW TYPE	Hydraulic Clamp, Spring Opening	
MECHANICAL TRANSMISSION	FUNK 4 Gear	4 VITES

ROTATION UNIT (LF70 LONGYEAR TYPE)

1: MAIN GEAR RATIO		1/9,9	
Transmission	Gear Ratio	Rpm	Torque
1. Gear	6,27:1	32 rpm - 52 rpm	22140 Nm - 13877 Nm
2. Gear	3,12:1	63 rpm - 100 rpm	11207 Nm - 7004Nm
3. Gear	1,75:1	115 rpm - 184 rpm	6167Nm - 3854Nm
4. Gear	1,00:1	202 rpm - 323 rpm	3524 Nm - 2202 Nm
2: MAIN GEAR RATIO		1/2,62	
Transmission	Gear Ratio	Rpm	Torque
1. Gear	6,27:1	121 rpm - 194 rpm	5848 Nm - 3655Nm
2. Gear	3,12:1	240 rpm - 384 rpm	2977Nm - 1860Nm
3. Gear	1,75:1	436 rpm - 697 rpm	1638 Nm - 1024 Nm
4. Gear	1,00:1	763 rpm - 1221 rpm	936 Nm - 585 Nm

DRILL MAST AND FEED SYSTEM

DRILLING ANGLE	Between 45° to - 90° Vertical
FEED STROKE	335cm
FEED PULL	22.000 kg
FEED THRUST	16.000 kg
MAST FEATURES	<ul style="list-style-type: none">» Telescopic Folding Mast» 6 mt Rod Pul» Independent 2 Hydraulic Piston» Hydraulically Side Moving Rotation Unit» Main Winch on the Mast» Emergency Safety Wire Ropes

WINCH AND WIRE ROPES

MAIN WINCH	<ul style="list-style-type: none">» BRADEN Brand» Constant Speed» 9.000 Kg. Pulling Capacity,» 15m/dk Pulling Speed» 18mm Steel Rope
WIRELINE WINCH	<ul style="list-style-type: none">» 37 kN Bare Drum Force» 8,9 kN Full Drum Force» 130m/d Bare Drum Speed» 550m/d Full Drum Speed» 6 mm Diameter, 1.300m Steel Rope

CRAWLER	STRICKLAND 8 - 12 Tons
----------------	-------------------------------

535 TRIPLEX MUD PUMP

PUMP TYPE	Triplex
NUMBER OF PISTON	3
FLOWRATE	135 lt/min
WORKING PRESSURE	500 psi
MAX.PRESSURE	700 psi
PISTON TYPE	Plunger
SUCTION SYSTEM	Valve ball
Suction Flange Size	2"
Discharge Flange Size	1/4"



















