

HEAVY DUTY MULTI-PURPOSE DRILL MODEL - MD -225



Heavy Duty Multipurpose Drill - MD-225 Technical Specifications

Depth capacity coring (Conventional and wireline)

N-Wireline	2200 m (7382ft)
H-Wireline	1400 m (4593ft)
P-Wireline	900 m (2953ft)

RC Drilling

4 1/2" Dia rod	450 m (1476ft)
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Rotary-Down Hole

31/2" Dia rod	750 m (2460ft)
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Power unit

Manufacturer	Cummins
Engine Type	Diesel Turbo Charged/aftercooled
Model	NTA855
Power	320 Hp (239KW)
RPM	2100
Cooling system	Water
Emission	Non certified

Feed System

Feed travel	7.5m (24.67ft)
Pull up force	226,0 KN (50700 lb)
Pull down force	107.8 KN (24288 lb)
Feed speeds	Fast and slow with variable control

Mast System

Feed mechanism	Hydraulic cylinder over ropes, 2:1 ratio.
Mast type:	Box type construction Welded RHS lattice with cross bracing
Length	11.8 m (app.), (38.7ft)
Drilling angle	45 to 90 degree
Mast Dump	2200 mm
Rod hosting length	9,0 m (29.5 ft)

Rotation Head and spindle speeds

Power	Hydraulic variable speed motor forward/reverse
Final drive	Heavy duty Spur / Helical gears.
Range selection	Two speed High / Low gear manual change
Spindle inside diameter	52 mm

Torque and Speed Ratings

Gear	Speed	Torque	
	Rpm	Nm	(lbft)
Low Speed Gear	80 – 260	13330 - 4075	(9832 - 3005)
High Speed Gear	363-1200	2892 – 884	(2133 - 652)

Main Winch

Hoisting Capacity	215.74 KN (48501 lb) (Bare drum)
Hoisting speed	40 m/min (131, 2 ft/min)
Cable diameter	22 mm
Cable length	35 m (115 ft)

Wire Line Winch

Hoisting Capacity	24.0 KN (5409 lb) (Bare drum)
Line speed	140 m/min (460 ft/min) (Bare drum)
Line speed	410 m/min (1345 ft/min) (Full drum)
Cable diameter	6 mm
Cable length	2750 m (9020 ft)

Rod Holder

Type	Hydraulic operated
Jaw Size	B, N, H, P

Approximate Weight/Dimensions.

Bare Drill Rig without Carrier rested on Jack frame.

Weight	19000Kgs
Length	12000 mm- Mast In horizontal when rested Straight
Width	2400 mm.
Height	2500 mm. Without Carrier rested on Jack frame

OPTIONS

Speed indicator- RH

Rotation Gear box RPM Indicator	
Location	Located on control panel
Type	Digital LCD Display

Wire Ropes

Main winch	22 mm X 35 m long
Wire line	6 mm X 2750 m long

Mud Mixer

Hydraulically operated.

Water Pump

Type	Triplex Piston Pump
Power	Hydraulic operated
Max flow	140 LPM
Max pressure	6.895 MPa (1000 PSI)

Engine

Emission Norms	Tier III certified
Power	320HP(239KW)@2200Rpm

Tramming Controls

Crawler controls	Wireless Remote Control up to 20 m Distance
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Lighting & Horn

Beacon Flash Light, Drive lights for CAB. Horn & Reverse Horn

Track (Crawler) assembly

Grouser construction	Triple Grouser
Total length of track	4120 mm
Total width of track	2400 mm
Gradeability – degree	25
Travel speed-Kmph	2

RC Package

Dual Swivel, Blowdown/Blowup, deflector box, Cyclone, Cone splitter, Riffle splitter, Dust collector, Discharge hose.

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An ISO 9001 : 2008 Company

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