



INDEPENDENT DRILLING SUPPLIES

IDS **MP 60K** MULTIPURPOSE DRILL RIG

HIGH PRODUCTIVITY
CAPACITY 60,000 LBF
MAIN HOIST 40KLBF TOP MAST
POWERFULL TOP DRIVE HEAD
RC FULLY HAND FREE
ROD BIN ON BOARD

INNOVATION DEVELOPMENT SAFETY

MULTIPURPOSE DRILL RIG

Diesel Engine

Cummins QSM11

Power 400 hp @ 1800rpm

Carrier

Track mounted

Truck 8x8 o 8x4

Rotation Head Top Drive 250cc/rev Motor

Hollow Floating spindle ID 80mm, 3½" API IF Pin thread

Two speed, Low/High manual gear change.

Low Maximum displ. 7.737 lbft (10.490Nm)@192rpm

Low Minimum displ. 4.952 lbft (6.713 Nm) @300 rpm

High Maximum displ. 1.856 lbft (2.516 Nm) @800rpm

High Minimum displ. 1.188 lbft (1.609 Nm) @1250rpm

Mast

Heavy Duty section mast structure

Capable of angles from vertical to 45°

2000mm (6.6 ft)mast dump

Head Traverse

Driven by one hydraulic cylinder, 2:1 rope system

Traverse Up Speed 830 mm/sec (2.72 ft/s)

Traverse Down Speed 622mm/sec (2.04 ft/s)

7.6m (25 ft)stroke with rotation head

Feed Capacity

Pull Down 100 kN (22,500lbf)

Pull Back 298kN (67,000lbf)

Main Hoist

Mounted on top of mast (Type Braden RW300)

Max pull 178kN (40,000 lbf)

Max speed 75m/minute (246 ft/min)

Failsafe brake mechanism

Winch limiter to prevent cable overrun

Wire Line Winch Mounted on mast pivot plate

Capacity 6mm (¼") rope: 2000m (6560 ft)

Max pull from full to empty drum 16.4kN (3,680 lbf)

Max speed from full to empty drum 7m/s (23 ft/s)

Automatic rope tracking device

Wireline winch overrun limiter with wiper.

Control Panel

Pivoting cabin off rear right corner of machine

Easy self-explanatory layout

Easy access for basic maintenance and repairs

Fully sealed control panel with all electrical instrumentation

Good visibility at all mast angles and rod handler

Rod Spin Guard

Cage off the rotating rods remote control.

Easy open & close Hydraulically from operator panel

Interlocked with rotation

Reduces rotation speed to 0 rpm when cage is opened

Water Pump

FMC (Bean) W1122BCD

140 @7000KPa

37 GPM @ 1000 PSI

Powered from rig hydraulic system.

Rod Spinner 4,5"

2980 Nm (2,200lbft) breaking torque

Adjustable torque control

B+ , N+ , H+ , P+ Capacity

Rod Clamp and Slip Table

Hydraulic operated, self energizing rod clamp UDR Type)

Easy to remove jaws

Common jaws (B+, N+, H+ and P+ casing)

Mud Mixing Circuit

Independent Hyd Circuit pump with 30 LPM. Independent from all other function

Flow control

Quick release connectors

Jack Legs

Heavy Duty cylinder w/ pilot check & flow fuse safety valves.

Rod Handler KI style and Rod bin on board

Handle 6m pipe lengths

Remote control

Rod Bin Capacity to carry 192 m of 4-1/2" rods.

Hydraulic Tilt rods right to present rods to rod handler

Rod Break Out

Metzke Makor break Hydraulic breakout wrench

Make and Break drill rods, Self Adjusting & Supported

Hook with Jaw 90 to140mm.

Metzke MB550 Hydraulic breakout wrench

Hands Free operation. Gripping range 90 - 140mm

Dual function – Breakout and Make Up joints

Slip Table 4,5" up 22" Max

The slip table at the base of the mast contains interchangeable slips for 4-1/2" (114 mm), 8" (203

mm) and 14.5" (368 mm) casing and pipe as standard.

Jib Boom

Actuated by hydraulic cylinder for raise/lower

Actuated by hydraulic hourglass worm for left/right

Winch with lifting capacity of 680kg (1500 lbs).

Hydraulics

Parker variable Flow pumps.

Char-lynn type orbit motors.

Danfoss main valve.

Danfoss PVG auxiliary valve.

Sun cartridges

MULTIPURPOSE DRILL RIG

Theoretical Rated Depth Capacity Pullback 298 kN (67,000 Lb)

- 4 ½" – Dual Wall RC pipe 640 m (2.110 ft).
- 4" – Dual Wall RC pipe 940 m (3.095 ft).

Main Hoist 178 kN (40,000 Lb)

- N – 2326m(7.632 ft)
- H – 1.578m (5.176 ft)
- P – 1.043m (3.421 ft)

RC Sample discharge assembly & components

Hammer lubricator 60lt tank, air Air operated pump On/Off and flow control from control cabinet.
Hydraulic operated air on/off and vent valves.
1500psi rated 2" air hose with certified hoses socks on all high-pressure air lines.
Drill star combo MK2 swivel assembly.
Inner tube & deflector box assembly.
500psi rated 3" sample hose assembly with certified hose socks & hardened Boss hose tails.
Hydraulic operated adjustable rod kicker operated from foot pedal on drillers platform.
1500psi valving for auxiliary compressor & booster connections.

Dimensions depending on configuration

Platform Width 3,000mm (9,8 ft)
Mast Length 12,000mm (39,3 ft)
Overall Height 4,600mm (15,1 ft)
Weight 40,000 kg (50.700 lb).

Optional Features

Carrier options
Clients color choice.
Automatic Fire suppression system
FOPS rated enclosed air-conditioned & heated cabin, dust free.
Blind spots camera.

Standard Features

Easy accessible control panel for general maintenance
Clear easy to read and self-explanatory controls.
Warning horn and traffic light to alert drill crew.
Central grease point for wire line and top sheave wheels
Easy accessible oil drain stations for engine, hydraulic tank, FMC pump
Fully sealed electrical panel
Hydraulic test points on all pumps, motors, and spool banks
Lockable Battery isolation switch
Fuel tank gauge
Clearly labeled oil type and grades on all oil fill points
Flashing light, and standard mine site lighting
Mast ladder
Rig platform access ladders and steps
Large fully adjustable offside platform
All product designed with standard imperial materials. All threads are either UNC or UNF. All hydraulic valves bodies, pumps, motors use common SAE O-ring boss adaptors

Safety Features

Guards on all rotating equipment
Anti slip surfaces on all work platforms
Handrails on all work platforms
Emergency stops in control cabinet and on both sides of machine
Heat guards on all exhaust manifolds and piping
Two certified 10kg (22lb) fire extinguishers.
Automatic fire suppression system.



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