

# ***IDS MP 60K***

## ***MULTIPURPOSE DRILL RIG***





**Diesel Engine**

Cummins QSM11 400 hp & 1800rpm

**Carrier**

Track mounted 8WD o 8x8 o 8x4

**Rotation Head Top Drive 250cc/rev Motor**

Hollow Floating spindle ID 70 mm, 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) @800

rpm

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

rpm

**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

Wire line winch overrun limiter with wiper

**Jack Legs**

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

**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

**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 to 140mm.

**Metzke MB550 Hydraulic breakout wrench**

Hands Free operation

Dual function – Breakout and Make Up joints

Gripping range 90 - 140mm

**Hammer Lubricator**

60 Liter ( 15 .8 Gal ) lubrication tank

Air operated pump

On/Off and flow control from control cabinet

**Air Circuit 1000 psi Rated**

Rig Air circuit with 2 Auxiliary inlets

2" Airline from Inlet to Swivel

Hydraulically actuated 2" Ball valves for air On/Off and Air Vent

100Psi Pressure reducer for service Air

Water injection into Air circuit

**RC Drilling Accessories**

Bottom side entry air swivel  
Top mounted sample Swivel  
Head tube

**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)

**Water Pump**

FMC (Bean) W1122BCD  
140 LPM (37 GPM) @7000KPa (1000 PSI)  
Powered from rig hydraulic system.

**Rod Clamp and Slip Table**

Hydraulic operated, self energising rod clamp  
Easy to remove jaws  
Common jaws from 44.5mm to 177.8mm (B+, N+, H+  
P+ and PWT casing) ( 1.75" – 7" )

**Rod Spinner 4,5"**

2980 Nm ( 2,200lbft ) breaking torque  
Adjustable torque control  
B+ , N+ , H+ , P+ Capacity

**Hydraulics**

Remote control Rig Setup  
Parker variable Flow pumps, Char-lynn type orbit  
motors, Danfoss main valve, Danfoss PVG auxiliary  
valve,, Sun cartridges

**Theoretical Rated Depth Capacity**

4 ½" – Dual Wall RC pipe  
520 m (1705 ft)

**Main Hoist 178 kN ( 40,000 Lb )**

N – 3.360m (11.024ft)  
H – 2.378m ( 7.803ft)  
P – 1.512m ( 5.157ft)

**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)

**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.

**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

**Warranty**

1 Year / 5000 hrs

**Optional Features**

- Clients color choice
- Fire suppression unit















# ***“Welcome to our world”***

