

# **IDS MP 60K**

## **MULTIPURPOSE DRILL RIG**



*Independent Drilling Supplies S.A.*  
Hermanos Carrera Pinto 161 Parque Industrial Los Libertadores  
Colima – Santiago

**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 lbf (10.490Nm)

@192rpm

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

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

High Minimum displ. 1.188 lbf (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 K1 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 offsiders 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”***



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