

IDS RC 85K

TRUCK MOUNTED



REVERSE CIRCULATION DRILL RIG

Diesel Engine

Cummins QSM11 400 hp & 1800rpm

Carrier

Track mounted 8WD o 8x8 o 8x4

Rotation Head Top Drive

Four motors Char-Lynn type 10K 40.6 in³/rev
Hollow Floating spindle ID: 122 mm, 5½" API IF box
thread
Displacement: 15.500 lbf (21.000 Nm)@72rpm
Speed range 5 -130 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 308 mm/sec (55 ft/m)
Traverse Down Speed 257mm/sec (46 ft/m)
7.6m (25 ft) stroke with rotation head

Feed Capacity

Pull Down 80 kN (20,000lbf)
Pull Back 340kN (85,000lbf)

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 Sample discharge assembly & components

Hydraulic operated air on/off and vent valves.
1500psi rated 2" air hose with certified hoses socks
on all high-pressure air lines.
500psi rated 3" sample hose assembly with certified
hose socks & hardened Boss hose tails.
1800 CFM cyclone assembly with hydraulic raise /
lower function.
Hydraulic operated double U table spanner.
1500psi valving for auxiliary compressor & booster
connections.

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.

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.

Hydraulics

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

Theoretical Rated Depth Capacity

4 1/2" – Dual Wall RC pipe 900 m (2.952 ft).
4 " – Dual Wall RC pipe 1200 m (4.035 ft).

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

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.

Dimensions depending on configuration

Platform Width 2,500mm (8,2 ft)
Mast Length 13,000mm (39,8 ft)
Overall Height 4,300mm (14,1 ft)
Weight 40,000 kg (50.700 lb).

Warranty

1 Year / 5000 hrs

Optional Features

Clients color choice.
Fire suppression unit.
Remote control Rig Setup.
Compressor on board





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