

IDS RC 85K TRUCK MOUNTED



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 lbft (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 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 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 ½" – 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 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.

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





“Welcome to our world”

