



**INDEPENDENT
DRILLING SUPPLIES**

IDS *DD 45K* CORE DRILL RIG

HIGH PRODUCTIVITY
MAIN WINCH 40KLBF TOP MAST
CAPACITY 45,000 LBF
TOP DRIVE HEAD



INNOVATION DEVELOPMENT SAFETY

Diesel Engine

Cummins QSM 11
Power 400HP @ 1,800 rpm

Track Carrier

Strickland 30T. Two speed motor.
3.2 kph Max tramming Speed.
Remote control tramming.

Rotation Head Top Drive with Floating spindle.

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 22.500lbf).
Pull Back 45.000lbf).

Jack Legs

Heavy Duty cylinder w/ pilot check
Flow fuse safety valves.
Extra-large pads for better ground stability.

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. Good visibility at all mast angles
Easy access for basic maintenance and repairs.
Fully sealed control panel with all electrical instrumentation.

Jack Legs

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

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

Hydraulics

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

Main Hoist 178 kN (40,000 Lb)

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

Optional Features

Clients color choice
Remote control Rig Setup
Fire suppression unit.

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
- Emergency stops in both sides of machine.
- Heat guards on all exhaust manifolds and piping.
- Two certified 10kg fire extinguishers.

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.
- 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 (LOTO)
- Clearly labeled oil type and grades on all oil fill points
- Flashing light, and standard mine site lighting
- 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.

Optional Features

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



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Hermanos Carrera Pinto 161 Parque Industrial Los Libertadores
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