



INDEPENDENT DRILLING SUPPLIES

IDS *HD 40K* **RC HORIZONTAL DRILL RIG**

PIT DEWATERING HOLES
REVERSE CIRCULATION
CAPACITY 40,000 LBF
FULLY HAND FREE



INNOVATION DEVELOPMENT SAFETY

RC HORIZONTAL DRILL RIG

Diesel Engine

Cummins QSB 6,7 Fully enclosed unit
Power 265HP @ 2,100 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 70 mm, 3½" API IF Pin thread
Two hydraulic motors type Char-Lynn with 480cc
Speed 5- 75 rpm.
Torque Maximum breakout 10,145 Lbf-ft

Mast

Heavy duty two-piece tubular section mast structure.
Capable of angles from +/- 5°
Standard hydraulic mast raises cylinders with counterbalance valves installed as standard for safety.
Two hydraulically extendable mast feet to support the mast against the wall.

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).
6,5m stroke with rotation head.

Feed Capacity

Pull Down 40.000lbf).
Pull Back 40.000lbf).

Jack Legs

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

Cabin control panel

FOPS rated enclosed air-conditioned & heated cabin, dust free.
Easy self-explanatory layout. Good visibility at all mast angles and rod handler.
Easy access for basic maintenance and repairs.
Fully sealed control panel with all electrical instrumentation.
Blind spots camera
Independent tramming cabin.

Rod Spin Guard.

Cages off the rotating rods from the operator
Hydraulically interlocked with rotation
Reduces rotation to 0 RPM when cage is opened.

Water Pump

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

Slip Table Metzke 4512

12" hydraulic opening with replaceable guides.
Supplied with 3-1/2" & 4-1/2" slips sets

Metzke Rod Breakout system Makor & MB 550.

Metzke Makor breakout wrench hydraulic, Spanner hydraulic cylinder mounted for hydraulic up down positioning on tool joints
Maximum Breakout Torque 20000Nm (15000Lbft).
Rod Breaker Metzke MB-550.
Suits rod sizes from 3-1/2"-5-1/2" top rotating breaker
Hydraulically retracts and extends from mast
Can be used to make or break drill rod.
Hydraulically operated table U spanner
Spanner sizes to suit both 3-1/2" & 4-1/2" drill pipe flats

Rod Handling Crane.

Crane mounted on rear of machine for general use
Capacity of 600kg @ 4.2m
Jaws capable of holding 3-6" rods.
Remote Control

Rod Handler and Rod bin on board

Type IDS designed to pick up from rod rack located beside the machine and present to rotation head
Able to handle 3.5" to 4.5" Drill pipe and up to 6" casing.
Can handle 3m or 6m pipe lengths.
Remote control. ·
Two lever operation required for clamp opening sequence
Remote controlled with manual backup in form of pilot operated joysticks
Rod Bin Capacity to carry 7 rods of 4-1/2" rods.

RC Sample discharge assembly & components

1200CFM cyclone assembly free standing (remote)
Hammer lubricator 60lt tank, air Air operated pump On/Off and flow control from control cabinet.
Hydraulic operated air on/off and vent valves.
1500psi rated 2" air hose with certified hoses socks on all high-pressure air lines.
Drill star combo MK2 swivel assembly.
Inner tube & deflector box assembly.
500psi rated 3" sample hose assembly with certified hose socks & hardened Boss hose tails.
Hydraulic operated adjustable rod kicker operated from foot pedal on drillers platform.
1500psi valving for auxiliary compressor & booster connections.

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

3-1/2" dual wall RC pipe – 400m.
4-1/2" dual wall RC pipe – 350m.

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Dimensions depending on configuration.

Jack leg centres 5.600mm
Mast Length 10.000mm
Overall, Height 3.500mm
Track width 3,000mm
Working Width 6,000mm
Weight approx. 30,000kg.

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 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
Metzke Exploration sampling system unit (cyclone, dust collector & splitter on trailer)



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