



INDEPENDENT DRILLING SUPPLIES

IDS WW 200K

FLOW REVERSE DRILL RIG

BIG RED
HIGH PRODUCTIVITY
CAPACITY 200,000 LBF
POWERFUL TOP DRIVE HEAD
PIVOT ROTARY HEAD 85°
FULLY HANDS FREE
COMPRESSOR 500CFM@200PSI
MAGNUM PUMP 4X3X13



INNOVATION DEVELOPMENT SAFETY

REVERSE CIRCULATION DRILL RIG

Diesel Engine

Cummins QSK19 MCRS 800 hp @ 1800rpm
Funk series 57000 four pump drive

Carrier Options

Track mount
Truck mount
B- double trailer combination

Compressor

Vanair DR 500 Drill Module
Air end Sullair 16 Series 500cfm@200psi
Hydraulic drive.

Rotation Head Top Drive Tilt

Spindle ID 133 mm, 5½" API IF Box thread
Four motors, Two Speed Low/High 41,3 in³/r - 27,5 in³/r
Low Speed Maximum Displ. 29,000 ft-lbf@65 rpm
Hi Speed Maximum Displ. 19,500 ft-lbf@92 rpm
Hydraulic Tilt head 0 to 85°, Capacity 8,818 lbs. (4,000kg).
Hydraulic lock pins to retain RH in the drilling position

Mast

Heavy Duty two section mast structure welded
Capable to vertical holes
1000mm (3,2 ft) mast dump
Heavy duty mast tilt cylinders with counterbalance valve.

Head Traverse

Driven by two hydraulic cylinder, 2:1 rope system
Traverse Up Speed 585 mm/s (1,91 ft/s)
Traverse Down Speed 473 mm/s (1,55 ft/s)
Fine feed max speed up 102 mm/s (0,33 ft/s)
Fine feed max speed down 82mm/s (0,26 ft/s)
8,6m (28 ft) stroke with rotation head

Feed Capacity

Pull down 111 kN (25,000 lbf)
Pull back 890 kN (200,000 lbf)

Jack Legs

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

Cabin Control Panel

Cabin FOPS, design consider standard ISO 3449.
Enclosed air-conditioned & heated cabin.
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.

Tools Winch

Mounted behind of mast (Type Braden xxx)
Max pull 53kN (12,000 lbf)

Survey Winch

Mounted behind of mast (Braden PD12C)
Max pull 6,6 kN (1,500 lbf)
Automatic rope tracking device
Capacity 8mm (5/16") rope: 800m (2624ft)

Hydraulics

Remote control Rig Setup.
Rexroth variable Flow pumps.
White & Danfoss motors.
Danfoss main valve, Danfoss PVG auxiliary valve.
Sun cartridges.

Centrifugal Pump

Mission Magnum 4x3x13 Drilling Sand Pump.
1332 l/min @ 1640kPa (353 gal/min @ 238 psi).
Danfoss hydraulic motor driven.
Automatic self priming pumps.

Rod Break Out System

Metzke Makorbreak Hydraulic breakout wrench

Make and Break drill rods
Maximum torq Make up 53,300 lb-ft
Maximum torq Break out 70,664 lb-ft.
Self Adjusting & Supported
Mounted on either side of the mast
Actuated by hydraulic cylinder for raise/lower 1524 mm.
Interchangeable Hook with Jaw 177 to 304mm.
Interlock safety to main functions.

Metzke MB1050 Double Hydraulic Breakout Wrench

Hands Free operation
Make and Break drill rods, hammers & drill collars
Dual function – Breakout and Make Up joints
Maximum torq Make up 54,500 lb-ft
Maximum torq Break out 72,000 lb-ft.
Actuated by hydraulic cylinder for raise/lower 300mm.
Gripping range 177mm – 304 mm
Maximum gripping 70,000 lb-ft

Hydraulic double U spanner

Upper U spanner stroke 300mm for raise/lower.
Interchangeable Spanner to different flats

Slip table assembly

Hydraulic retractable slip box
Includes slip for 7" & 11" pipe.
Maximum Open without slip 711mm (28").

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)
Fast feed Interlock system anti collision

REVERSE CIRCULATION DRILL RIG

Rod Spin Guard Mounted on offsider platform

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
Vertical lift platform to rotary head maintenance & inspect.

Mud & Air Circuit 1500 psi Rated

Rig Air circuit with 2 Auxiliary inlets
3" 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

Safety Features

Folding Retractable Stairs and Walkways Electrohydraulic setup.
Guards on all rotating equipment.
Anti slip surfaces on all work platforms.
Handrails on all work platforms
Hydraulic offsider platform assembly with integrated Maintenance elevator platform.
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

Transport length 15,500mm (50,8ft)
Platform Width 2,700mm (8,8ft)
Platform length 8,550mm (28,0ft)
Mast Length 15,200mm (49,8ft)
Overall Height 4,500mm (14,7ft)
Total Weight 64,000 kg

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,
Piston rods cylinders with bellows cover
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



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