

FINDING A BETTER WAY TO DRILL



Mitchell

DRILLING INTERNATIONAL

Sandvik UDR1500

The UDR1500 MK III is a multipurpose specialized deep hole drill rig, which is highly effective in deep hole diamond coring and rotary drilling techniques. Featuring a 12-meter rod pull and mast platform the UDR1500 is highly efficient in a variety of deep hole high capacity applications.

TECHNICAL INFORMATION ENGINE SPECIFICATION

Drill Mast:

- 12-meter rod pull capacity
- Capable of angles from vertical to 45°
- Dual point mast pivot frame
- 1300mm mast dump
- Adjustable plugslide
- Mast top platform with finger board for rod racking
- Mast racking capacity 2,200m "N" @ 90°
- Mast racking capacity 2,000m "N" @ 60°



Mitchell Drilling International
Head Office - Australia:
112 Bluestone Circuit
Seventeen Mile Rocks QLD 4073
PO Box 3199, Darra QLD 4076

Botswana Office:
PO Box 1816
Gaborone
t: +61 7 3722 7277
f: +61 7 3722 7255
e: info@mitchelldrillinginternational.com
w: www.mitchelldrillinginternational.com

Diesel Engine:

- Cummins "M" Series
- 254kW (341 HP) @ 1800 rpm

Rotation Head:

- UDR Type 3000 two speed top head drive
- High - low manual gear change
- Stepless speed control
- 3 - 137 rpm low gear, 137 - 1500 rpm high gear
- Floating spindle design
- Oil jet lubricated gears and bearings

Technical Information

Engine Specification (cont.)

Rotation Head Output Torque:

- 13,030 Nm @ 3-73 rpm
- 1,370 Nm @ 1000 rpm
- 1,193 Nm @ 1500 rpm

Head Traverse:

- Hydraulic cylinder over ropes 2:1 ratio
- Maximum speed 48.2 m/min upwards
- Maximum speed 36.2 m/min downwards
- Hydraulic rotation head rack back

Pull Down: 70 kN (15,700 lbf)

Pull out: 217 kN (48,700 lbf)

Main Hoist:

- Mast top mounted, single line pull
- Maximum pull 213 kN (47,800 lbf)
- Maximum speed 137m/minute
- Failsafe brake mechanism (spring applied, hydraulic release)
- Load sensing motor allows maximum speed for weight

Main Hoist Travel Limiter:

- Slows hoist speed at a set point
- Stops winch at a further set point
- Stops hoist plug and rods being pulled onto winch drum

Water Pump:

- FMC (Bean) L1118SC
- 246 l/minute @ 12,400kPa

Rod Break Out:

- Hydraulically powered chain tong
- Maximum torque 24,400 Nm (18,000 lbf)
- 83mm to 210mm pipe capacity
- Optional hydraulic hands free RC/Rotary rod break out tool
- Optional wireline Safe-T-Spin rod pre torque, make, break tool

Rod Clamps & Slips Table:

- Hydraulically operated, self-energizing rod clamp
- Easy to remove jaws
- Common jaws from 44.5mm to 177.8mm
- Drop in slips table for rod clamp
- Casing and rod slips for all popular sizes
- Standard 320mm mast bottom opening
- Optional hydraulically operated table spanner

Wireline Winch:

- Capacity of 2000m of 10mm wire rope
- Maximum pull 53.7 kN (bare drum)
- Maximum speed 395m/minute (full drum)

Hydraulics:

- Highest quality axial and radial piston pumps and motors Five main open loop hydraulic circuits
- Full flow 10 micron
- Beta rated return oil filtration
- Larger than average hoses and control valves

Rod Whip Guard:

- Hydraulically operated
- Retracts automatically
- Eliminates excessive rod whipping when high speed coring

Rod Spin Guard:

- Cages off the rods from the operator
- Hydraulically interlocked with rotation
- Reduces rotation speed to 100 rpm when cage is opened

Depth Capacities

Diamond Coring	<ul style="list-style-type: none">• NRQ – 2780m• CHD76 – 2600m• HRQ – 1848m• CHD101 – 1680m
Rotary Down Hole	<ul style="list-style-type: none">• 3-1/2" Rod - 950m x 6-1/2" hole

