



10051/ UDR1500 DRILL RIG

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The UDR1500 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 UDR 1500 is highly efficient in a variety of deep hole high capacity applications.

Video QR of its operation

SPECIFICATIONS

DRILL MAST <ul style="list-style-type: none"> 12 metre rod pull capacity Capable of angles from vertical to 45° Dual point mast pivot frame 1300mm mast dump Adjustable plug slide Mast top platform with finger board for rod racking Mast racking capacity 2,200 m "N" @ 90° Mast racking capacity 2,000m "N" @ 60° 	WIRELINE WINCH <ul style="list-style-type: none"> Capacity of 2000m of 10mm wire rope Maximum pull 53.7 kN (bare drum) Maximum speed 395m/minute (full drum)
DIESEL ENGINE Cummins "M" Series 254kW (341 HP) @ 1800 rpm	WATER PUMP <ul style="list-style-type: none"> FMC (Bean) L1118SC
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	ROD BREAK OUT <ul style="list-style-type: none"> 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
ROTATION HEAD OUTPUT <ul style="list-style-type: none"> 13,030 Nm @ 3-73 rpm 1,370 Nm @ 1000 rpm 1,193 Nm @ 1500 rpm 	ROD CLAMPS & SLIPS <ul style="list-style-type: none"> Hydraulically operated, self energising rod clamp Easy to remove jaws
HEAD <ul style="list-style-type: none"> 50 ft (15.24 m) head travel 200,000 lbf (890 kN) hoist capacity 100 fpm (30.5 m/min) hoist speed 32,000 lbf (142 kN) pulldown 200 fpm (61 m/min) pulldown speed 	TABLE <ul style="list-style-type: none"> 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

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HEAD TRAVERSE <ul style="list-style-type: none"> 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 	HYDRAULICS <ul style="list-style-type: none"> 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
PULL DOWN <ul style="list-style-type: none"> 70 kN (15,700 lbf) 	ROD WHIP GUARD <ul style="list-style-type: none"> Hydraulically operated Retracts automatically Eliminates excessive rod whipping when high speed coring
PULL OUT <ul style="list-style-type: none"> 217 kN (48,700 lbf) 	ROD SPIN GUARD <ul style="list-style-type: none"> Cages off the rods from the operator Hydraulically interlocked with rotation Reduces rotation speed to 100 rpm when cage is opened
MAIN HOIST <ul style="list-style-type: none"> 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 	DIAMOND CORING <ul style="list-style-type: none"> NRQ™ – 2780m CHD76 – 2600m HRQ™ – 1848m CHD101 – 1680m ™ “RQ” is a Trademark of Boart Longyear Inc.
MAIN HOIST TRAVEL LIMITER <ul style="list-style-type: none"> Slows hoist speed at a set point Stops winch at a further set point Stops hoist plug and rods being pulled onto winch drum 	ROTARY DOWN HOLE HAMMER <ul style="list-style-type: none"> 3-1/2" Rod - 950m x 6-1/2" hole

Optional Features

- UDR Safe-T-Spin - wireline rod pre torque, make, break tool.
- UDR Safe-T-Break - RC / Rotary break out tool
- Hydraulically powered table spanner
- Sound proofing

Additional Optional Equipment

- Deck mounted 1160 cfm / 500 psi air compressor package
- Deck mounted 1150 cfm / 350 psi air compressor package
- Deck mounted hydraulically driven mud pump

Carrier Options

- Track carrier mounted (powered from rig hydraulics)
- Skid Mount or Jack up style
- Tri Axle Trailer mount

STANDARD RIG LAYOUT

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