nikhi group

Merchant Exporters & Importers



SURFACE EXPLORATION • REVERSE CIRCULATION

PRD OZ RC

450 m RC CAPACITY | 140 mm HOLE DIAMETER | 25,800 kgf PULL-UP FORCE | 45°-90° DRILLING

www.nikhigroup.com

WhatsApp (UK): +44 7810 895292

Ouagadougou, Burkina Faso

Engineered for demanding ground conditions

PROVEN CAPABILITY

Built to go deeper

Arobust,efficientreverse-circulationsystemengineeredfor dependable sample recovery.



RC CAPACITY	HOLE DIAMETER	PULL-UP FORCE	ANGLE RANGE
450 m	140 mm	25,800 kgf	45°-90°

Designed for surface exploration, PRD OZ RC combines a long-travel mast, high-force feed system, controlled rotary head and integrated sampling architecture in a versatile crawler- or truck-mounted package.

CONFIGURATION FLEXIBILITY

Configured around your operating requirement

Prime mover,compressor and mounting combinations vary according todesign feasibility.Available configurations include crawler or truck mounting with a suitable PTO-driven truck engine or a 360 hp deck engine.

DRILLING PLATFORM

Purpose-built structural strength



APPLICATION	Surface exploration
DRILLING ANGLE	45° to 90° with manual locks in 5° increments
PRIME MOVER*	Suitable truck engine with PTO through transfer gearbox, or 360 hp deck engine
PLATFORM	Heavy I- and C-section welded steel structure with chequered plate
MAST ASSEMBLY	Twin tubular box construction; 12,000 mm overall; 8,000 mm rotary travel; 6 m rods
MAST RAISING	Two hydraulic cylinders with dumping arrangement for angle drilling
FEED SYSTEM	Two double-acting cylinders, 1:2 rope reeving; pull-down 17,700 kgf at 210 bar
FEED SPEEDS	Pull-up 29 m/min; pull-down 66 m/min

PRECISION CONTROL

Torque where it matters

Purpose-built systems deliver repeatable drilling performance and responsive operation.



MAXIMUM TORQUE

6,545 Nm

ROTATION

0-100 rpm

SYSTEM PRESSURE

3,045 psi / 210 bar

ROTARY HEAD	Steel body; spur-gear reduction; oil-bath lubrication; deflector box; top-entry air swivel and blow-down unit
SPINDLE	79 mm hollow spindle; 4 in API FH female bottom connection; twin hydraulic motors
AIRLINE LUBRICATOR	Positive-acting venturi inline unit; 15 L tank; 1,000 psi working pressure
HYDRAULIC PUMPS	Two variable piston pumps for feed, rotation and winches; fixed pumps for auxiliary functions and oil cooler
CONTROL	Pilot-operated proportional control valves for feed and rotation
COOLING & TANK	120 gpm hydraulic oil cooler; 800 L hydraulic tank

EFFICIENT WORKFLOW

Designed for productive shifts





ROD HANDLING	EZ wireless radio-remote system with extended swing-out arm for loading and unloading drill pipe
ROD RACK*	32 pipes x 6 m; total rack capacity 192 m
RC SAMPLING	Cyclone system with static cone splitter
RC ATTACHMENTS	RC head and hose; top-entry air swivel; deflector box and blow-down unit
JIB BOOM ARM	Provided for drill-rod handling during angle drilling
BREAKOUT SYSTEM	Hydraulic SBS 6 swing-in single-wrench system
SURVEY WINCH	500 kg hoisting capacity; 400 m drum; 5 mm rope
CONTROL PANEL	Rear centralized swing-out panel with gauges, emergency switch and safety lock

FIELD ASSURANCE

Ready for the field

- Fire suppression system / CLS
- Hose-burst whiplash protection
- Emergency switch and battery isolator
- Fire extinguisher and thermal socks
- Wrap-around walkway
- High-visibility light beacon
- Guards for rotating equipment
- Wireless remote tramming and rod handling
- Emergency crawler brake



LEVELLING	Four hydraulic jacks with telescopic guides and locking check valves
AIR COMPRESSOR*	Recommended ELGI, 1,200 cfm at 500 psi / 35 bar
WATER / FOAM	Triplex injection pump; 80 lpm maximum flow; 40 bar maximum pressure
ADDITIONAL	Night lights, handrails, hammer stand and compressor fuel tank
DOCUMENTATION	Operation, maintenance and spare-parts manual
MOUNTING*	Crawler or truck

LET'S BUILD THE RIGHT DRILLING CONFIGURATION

Talk to Nikhi Group

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