



**“THE POWER
BEHIND THE TOOLS”**

- LF230 CORE DRILL

www.boartlongyear.com



**DEPTH CAPACITY:
2 770 M (9,090 FT)
(NQ/NRQ V-WALL)**

HYDRAULIC ROD MAKING AND
BREAKING

PATENTED, NITROGEN GAS SPRING
NITRO-CHUCK®

LIFT TO SHIFT LEVERS

HYDRAULIC MAST DUMPING CAPABILITY
UP TO 1 829 MM (72 IN)

LF230 Hydraulic Diamond Core Drill

The LF230 deep hole drill provides you with the features and the power to get just about any job done...easily and efficiently.

40,000 lb hoist allows for rig depth capacity beyond its class.

PQ Nitro-Chuck® — field tested and designed to offer you the performance and reliability to complete your project. One year warranty.

Hydraulic, telescopic, 9 m (30 ft) pull mast for ease of setup.

Small footprint for easy transport, while maintaining high output.

Open face mast features common centerline through the chuck and feed cylinders for efficient design and lower maintenance.

Two configurations — truck mounted for mobility or scow mounted for remote locations.



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LF230 Hydraulic Diamond Core Drill

ROTATION UNIT

- Hollow spindle for PQ tools (accepts PQ reaming shell)
- Straight cut gear driven with FUNK 4-speed transmission
- 2-speed (hi-low range) reversible — bent axis piston type hydraulic motor to maximize spindle torque and rpm
- Nitro-Chuck® PQ/HWT
 - 7 jaw, hydraulic-open/nitrogen gas spring closed, bolt-on design
 - holding capacity 222 400 N (50,000 lbf)

POWER UNIT

- Cummins model QSC8.3P-260, water cooled
- 8.3 L (506 in³) displacement with maximum rated power of 194 kW (260 hp) @2200 rpm
- Emission certified Tier 3
- Suitable for operation up to 3048 MASL (10,000 FASL) before electronic deration is applied

OPERATOR 'S PANEL /HYDRAULIC MODULE

- Self contained and ergonomically designed for ease of operation
- Hydraulic rod making and breaking increases productivity and maximizes drill rod life
- Electric over hydraulic controls reduces operator fatigue
- Direct coupled hydraulic pumps complete with PTO driven auxiliary pump
- Control panel can be repositioned vertically to maximize operator comfort
- Lift to shift levers stopping accidental actuation

MAIN HOIST

- 18 258 kg (40,000 lb) capacity single line pull — hydraulic driven, planetary winch
- Spring applied/hydraulic released brake
- Two-speed hydraulic motor complete with counter balance valve for smooth operation
- 22 mm (7/8 in) diameter hoisting cable
- Winch tensioner

WIRELINE WINCH

- Hydraulically driven with integral counter balance valves
- Drum capacity — 3 300 m (10,827 ft) swaged 6.4 mm (1/4 in) cable
- Spooling device

ROD CLAMP

- Hydraulically powered — BQ rod to HWT casing jaw sizes

MAST

- Independent dual-hydraulic mast raising cylinders
- Standard 9 m (30 ft) pull, telescopic, angle hole mast for ease of setup
- 45° off horizontal (angle drilling) to 90° vertical down
- Direct coupled feed cylinder with 3.35 m (11 ft) stroke
- Crown block with single, large diameter sheave — improves cable life

OPTIONS

- Rod racking platform for vertical hole drilling ONLY — for use with 9 m (30 ft) pull (truck mounted version)
- Cat walk, railing and access stairs
- Hot climate hydraulic cooler
- Truck mount international 5600

Refer to Tech Data sheets for additional technical information.

BOART LONGYEAR IS A LEADING PROVIDER OF:

GLOBAL DRILLING SERVICES

EXPLORATION TOOLS AND EQUIPMENT

ROCK DRILLING TOOLS AND EQUIPMENT

GEOTECHNICAL AND ENVIRONMENTAL TOOLS, AND EQUIPMENT

CONSTRUCTION AND STONE TOOLS AND EQUIPMENT

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