



**"PRODUCTIVITY:
BEST-IN-CLASS"**

- LF90D Core Drill

www.boartlongyear.com



**DEPTH CAPACITY:
900 M (2950 FT)
(NQ/NRQHP)**

HYDRAULIC ROD MAKING AND
BREAKING

PATENTED, NITROGEN GAS SPRING
NITRO-CHUCK

HIGH DRILLING TORQUE FOR
PRODUCTIVE DRILLING AT DEPTH

HYDRAULIC MAST DUMPING CAPABILITY
UP TO 2 340 MM (92 IN)

LF90D Hydraulic Diamond Core Drill

The LF90D core drill has proven itself to be one of the most productive deep hole drills in its class. It is packed with new features and is fitted with the most robust head and chuck released in the industry.

3.5 m (11.5 ft) feed length and 16,000 lb hoist — improving bit life and production rates while increasing depth capacity.

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

Independent dual hydraulic mast raising cylinders.

Hydraulic, telescopic, 6 m (20 ft) pull mast for ease of setup.

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



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LF90D Hydraulic Diamond Core Drill

ROTATION UNIT

- Hollow spindle for PQ tools (accepts PQ reaming shell)
- Extreme duty gear driven head 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 QSB6.7L charge air cooled
- 6.7 L (409 in³) displacement with maximum rated power of 149 kW (220 hp) @2200 rpm
- Emission certified Tier 3
- Suitable for operation up to 3658 MASL (12,001 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
- Simple, manual, hydraulic controls for ease of service
- Direct coupled hydraulic pumps

MAIN HOIST

- 16,000 lb capacity single line pull — hydraulic driven, planetary winch
- Spring applied/hydraulic released brake
- 15 mm (19/32 in) diameter hoisting cable

WIRELINE WINCH

- Hydraulically driven with integral counter balance valves
- Spooling capacity — 1 890 m (6,200 ft) swaged 4.8 mm (3/16 in) cable

ROD CLAMP

- Hydraulically powered — BQ rod to HWT casing jaw sizes

MAST

- Hydraulic mast dumping capability up to 234 cm (92 in)
- Independent dual-hydraulic mast raising cylinders
- Standard 6 m (20 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

OPTIONS

- Rod racking platform
- Mud mixer with 946 L (250 gal) mixing tank — hydraulically powered
- W11 Fluid circulation pump — hydraulically driven
- Hydraulic leveling jacks with hydraulic outriggers for truck mounting

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, EQUIPMENT AND INSTRUMENTATION

CONSTRUCTION AND STONE TOOLS AND EQUIPMENT

All photographs are representation, actual equipment may not be exactly as shown. Boart Longyear is constantly striving to improve its products and must, therefore, reserve the right to change designs, materials, specifications and price without prior notice.

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