

[Boart Longyear LF230 Surface Coring Drill](#) [Inventory ID #1201724]



Boart Longyear LF-230 Surface Coring Drill

- Make: Boart Longyear
- Model: LF-230
- Year: 2010
- Drive: Diesel
 - Cummins Power QSC 8.3 L (275HP)
 - Tier 3
 - 6 Cylinder
- 4 Speed Transmission
- 40,000 Lbs. 2 Speed Hoist
- PQ™ Nitro-Chuck
- Telescopic Mast Assembly
- Wire Line (3880 Lbs. Line Pull)
- Hydraulic Drive
 - FMC W11 Pressure Pump
- Electric/Hydraulic Operator Panel
- Fuel Tank (485 L/128 Gal)
- Mounted in an Operator's Skid Shack
 - With Access Panels and Tow Bar
- Comes with Additional 40' Drill Rod and Parts Storage Sea Container

- Torque and RPM Ratings: (Hydraulic Motor at Max/Min Displacement, Prime Mover @ 2,200 RPM)

Speed (No Load)	Torque (Stall)
<u>RPM</u>	<u>ft-lbs</u>
<u>Nm</u>	



○ 1st Gear	144 - 199	5,322 - 3,826	3,925 - 2,822
○ 2nd Gear	288 - 400	2,648 - 1,898	1,953 - 1,400
○ 3rd Gear	514 - 714	1,486 - 1068	1,096 - 788
○ 4th Gear	900 - 1,250	849 - 610	626 - 450

- Drilling Depth Guidelines

- Drill Rod / Core Barrel Hole Depth
 - BRQ™/BQ™*: 3,462 Meters (11,358 Ft)
 - NRQ™: 2,661 Meters (8,730 Ft)
 - NRQ™ V-Wall™: 2,983 Meters (9,788 Ft)
 - HRQ™/HQ™: 1,806 Meters (5,925 Ft)
 - HRQ™ V-Wall™: 2,246 Meters (7,368 Ft)
 - PHD/PQ™: 1,190 Meters (3,904 Ft)
 - PHD V-Wall™: 1,592 Meters (5,223 Ft)

- Hydraulic System:

- Primary Pump: Axial Piston, Variable Displacement, Load Sensing, Pressure Compensated with Low Pressure Standby
 - Max Flow: 318 L/m (84 GPM)
 - Maximum Pressure (Factory Setting): 31MPa (4,500 PSI)
- Secondary Pump: Axial Piston, Variable Displacement, Load Sensing, Pressure Compensated with Low Pressure Standby
 - Max Flow: 72 L/m (19 GPM)
 - Maximum Pressure (Factory Setting): 21MPa (3,000 PSI)
- Auxiliary Pump: Axial Piston, Variable Displacement, Pressure Compensated
 - Max Flow: 42 L/min (11 GPM)
 - Maximum Pressure (Factory Setting): 14MPa (2,000 PSI)
 - Hydraulic Tank Capacity: 435 L (115 Gal)

- Drill Head

- Rotation Motor: Resroth Hydraulic Motor - Variable/Reversible
- Ratios:
 - 1st: 6.27:1
 - 2nd: 3.12:1
 - 3rd: 1.75:1
 - 4th: 1.00:1
- Final Drive Straight Cut Gears
 - Ratio 2:1
- Head Opener: Pivoting Style, Hydraulically Actuated
- Hydraulic PQ™ Chuck
 - Patented Nitro-Chuck™



- Hydraulically Opened, Nitrogen Gas Spring Closed
- Axial Holding Capacity: 222,400N (50,000 lbf)
- Drill Head Lubrication: Force-Fed Bearings, Oil Bath for Gears, External Sump
- Drill Head Lubricating Oil Filtration: 25 Micron Suction Oil Filter

- Drill Mast and Feed System
 - Feed Stroke: 3.35m (11ft)
 - Max Pull Capacity: 223.6kN (50,265 lbf)
 - Max Thrust Capacity: 117.9kN (26,500 lbf)
 - Rod Pull: 6m or 9m (20ft or 30ft)
 - Drilling Angle: 45° Off Horizontal to 90° Vertical Down
 - Mast Dump (Crowd): 2.74m (9ft)
 - Mast Telescope: 2.87m (9.42ft)

- Draw Works
 - Main Line Winch: Two Speed Motor
 - Hook Load: (Single Part Line)
 - Bare Drum: 177.9kN (40,000 Lbs.)
 - Hoisting Speed: (Single Part Line)
 - Bare Drum: 1.1m/s & .67m/s (3.6ft/s & 2.2ft/s)
 - Main Line Winch Cable Dia.: 22mm (7/8in)
 - Minimum Breaking Strength: 508.8kN (114,400 lbf)
 - Foot Clamp Capacity: HWT - 178kN (Axial)
 - Wireline Hoist:
 - Level Wind Chain Driven - Dual Ratio
 - Line Pull:
 - Bare Drum: 17.2kN (3,880 lbs.)
 - Full Drum: 9.5kN (2,130 lbf)
 - Line Speed:
 - Bare Drum: 160m/min (525ft/min)
 - Full Drum: 284m/min (932ft/min)
 - Drum Capacity: 3,300m (10,827ft)

- Overall Dimensions: Drill
 - Length: 36ft 11in
 - Width: 8ft 3in (12ft 3in Jacks Extended)
 - Height: 9ft 5in
 - Weight: 32,160 Lbs

- Location: Western Canada



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