

Unmatched Power, Performance & Productivity

LISTENING KNOWLEDGE EXPERTISE

528-DCRAWLER MOUNTED DRILL

The LeeBoy 528-D Crawler Mounted Drill-rig is a customized solution for blast hole drilling applications in quarries and mines.



Model: Cummins 6BTA 5.9 C 169 C (BS II Certified)

Type: Liquid-cooled, 6 cylinder, 4-Stroke, direct

injection with turbo charged engine

Cylinders:

Bore/ stroke: 102 mm/ 120 mm

Displacement: 5.9 Liters **Fuel:** Diesel

Fuel filter: 3 Micron & 10 micron

+ moisture separator

Air intake system: Dry type two stage filter with

active pre-cleaner

Cooling: Water Glycol 50:50

Horse power @2100 rpm

• Gross: 126 kw (169 hp)

• Net: 112 kw (150 hp)

Net maximum torque:

Gross 660 Nm @ 1500 rpm

TRAVEL SYSTEM

Travel motor: Variable displacement

cartridge type

Travel brakes: Hydrostatic braking with

makeup direct relief and over centre to prevent vehicle over running on

inclines.

Parking brakes: Hydraulic negative oil disc

brakes inbuilt in motor

Travel speed: 0 - 3 km/hour

Drawbar pull: 230 kN Gradeability: 70% (35°)



HYDRAULIC CYLINDERS

	Qty	Bore	Stroke	Rod dia.
Boom cylinders	2	120 mm	1320 mm	85 mm
Arm cylinders	1	135 mm	1675 mm	95 mm

HYDRAULICS

Type: Open loop, variable displacement,

summation horsepower control,

Negacon system

Max. Hydraulic flow: 2 variable displacement pumps &

1 gear pump, 2 x 224 lpm,



ELECTRICAL

Voltage: 24 volts
Alternator rating: 90 amps
Batteries: 2 x 12 Volts

Batteries reserve capacity: 800 CCA/ 50 ah x 2nos.

Work lights - 6 nos: 24 Volts/ 90 amp
Halogen type work lights on boom (2 nos.)
Halogen type work lights on frame (2 nos.)

• Halogen dual type work lights on cabin top (2 nos.)

• Strobe light - Amber LED type dual flash

SWING SYSTEM

Swing drive motor: Axial piston with in-built static brakes,

rebound damping valve and anti-shock,

anti-cavitational valve

Service brake: Hydraulic brake with static park brake

when the lever is in neutral position

with 5-second delay ramp

Parking brake: Hydraullic negative disc brake inbuilt

in motor

Swing speed: 0 - 6 km/hour Tail swing radius: 2.985 m Swing torque: 67,408 Nm

UNDER CARRIAGE

Type: Heavy duty, triple grouser shoe

profile undercarriage from BERCO

Track gauge: 2.58 m

No.of carrier rollers on each side: 2

No.of bottom rollers on each side: 9

Shoe width: 600 mm

Type of shoes: Heavy duty, triple grouser

No. of shoes per side: 51

CABIN CONTROLS

Drilling controls

- Fast & Slow Rotation
- Fast & Micro feed
- Gauge for Micro feed and Rotation

Setting controls

 Bucket cylinder, Guide Swing, Guide extension Fork chuck and

Breakout Wrench

• Setting cannot operate while drilling is on unless the lever is moved to

setting position

• Traction, slew and Boom cannot operate when the drilling is on unless

joystick selector switch moved to travel mode

• Water Injection and Dust collector will be actuated by single spool valve.

SERVICE CAPACITY

Fuel tank: 700 litres
Hydraulic system: 260 litres
Hydraulic tank: 210 litres
Engine oil: 20 litres

Swing motor

& reduction unit: 5 litres

Travel motor

& reduction unit: 5 x 2 litres

Coolant: 20 litres (Premixed 50% Glycol)

Slew ring grease: 10 kgs

DRILL PACK TECHNICAL DATA

Part	Major Specs	Details	
General:	Hole size Drill method	165 mm DTH	
Dimensions with tower up	Length Width Standard weight	11.1 m 3.2 m 27,600 kg	
Rotary Head	Rotation Speed (Variable) Max. Torque 3390 Nm Motor OMT	0-100 rpm (345 Kgm) 315	
Feed System	Type Operating Pressure Pull down / Pullback Pull down/ Pull back Speed Micro feed with Load on bit control Drill pipe length Rotary Head Travel Length Drill Pipe thread type	Motor Driven Chain System 250 bar 4,236 kgf 30-35 m/min Yes 6 m 8 m API / Beco	
Water Injection Pump	Pump flow Pump Pressure Type Drive Water Tank Capacity	10-15 lpm 300 psi Reciprocating Hydraulic Motor Drive Stainless Steel 500 litres	
Air Compressor	Model Engine Max. Pressure (psi) Max. flow (cfm) Type of mounting & amp; drive	Elgi PG 650-200 Cummins 6CTA 8.3 200 650 Skid Mounting and driven by Independent Engine	
Lubricator	Type Capacity	Venturi 20 litres	
Centralizer	Max. Opening Fork chuck Operation	330 mm Hydraulic	
Dust Collector	Type Drive Drive motor capacity No of cartridges Cleaning mechanism	Cyclone with Cartridge filtration Hydraulic 11 kW 4 Auto cleaning through compressed air Polyester needle felt	
	Type of fabric Cartridges Area Piping	20 – 24 sqm From Centralizer to Dust	

collector

PECIFICATIONS

CRAWLER MOUNTED DRILL

Standard features

- · Ergonomically designed, steel cabin mounted on viscous vibration dampeners
- 150° reclining, adjustable seat, retractable seat belt
- Sunroof
- Differential piston joysticks for highly cushioned operations,
- Foot pedals for traction along with inching levers
- Stereo
- · Windshield washer and wiper for the front windshield

Advanced electronic, centralized integrated display

- LCD colour display 7- inch size (futuristic) with day and night vision
- 2 cameras installed into the display for right and back positions (Optional)
- · Drill and hole parameters, compressor controls and all warning icons (with a warning buzzer) added into the display system
- · Troubleshooting screen incorporated into the display for faster resolution of any issues on the machines

Drilling controls

- Fast and slow rotation
- Fast and micro-feed
- Water injection/ dust collector actuation

Drilling auxiliary controls

- Guide swing
- Guide extension
- · Fork chuck and breakout wrench
- Dust hood controls

Selling controls

· Slew, boom, and travel

Safety interlocks and features

- Drilling auxiliary and setting controls cannot be operated while the drilling is in progress and vice versa
- Compressor controls placed inside the cabin for ease and safety in operations
- · Hi-visibility Xenon beacon with dual of quad flash
- Travel alarm
- 2 cameras for rear and RHS views (optional)

Others

Carousal rod changer:

- Multi-pass: 3 rods
- Rod Dia: 3": 6"
- Total Drilling Depth: 60 m Special Features:
- Auto thread greasing system on every rod change
- Carousel indexing
- Automatic Breakout system:
- Chain link Breaking system, that has the flexibility of Breaking the Drill Rod Dia Ranging from 2 7/8" through 5"



Others

- Water injection and dust collector for excellent environment control of dust around the operator cabin
- HVAC (optional)
- CAN-controlled engine throttle and pump flow control for ease in operations
- Automatic Fire suppression system that uses Linear Heat Detection (LHD) cable for detection & dry chemical powder for fire suppression (optional)

LeeBoy makes continuous improvements to all its products and reserves the right to change specifications without notice. Photos and illustrations may contain standard and optional equipment.



LeeBoy India Construction Equipment Private Limited

Plot # 289 - 292, Bommasandra Jigani Link Road, KIADB Industrial Area, Jigani Hobli, Anekal Taluk, Bangalore - 560 105 India.







