

LeeBoy

BACKHOE LOADER

679



CUMMINS B3.3(BS III) ENGINE | GROSS POWER 80 HP @ 2200 RPM | MAXIMUM ENGINE TORQUE - 304 NM | SYNCHRO SHUTTLE TRANSMISSION | OPERATING WEIGHT - 7,500 KG | BUCKET CAPACITY: LOADER - 1.1 M³ (2280 MM) | BACKHOE - 0.27 M³ (800 MM) | BACKHOE DIGGING DEPTH - 4700 MM | ERGONOMICALLY DESIGNED CABIN WITH EXCELLENT VISIBILITY.

SPECIFICATIONS



BACKHOE LOADER 679

New Generation Backhoe Loaders from LeeBoy that embody LeeBoy's commitment to excellence in engineering and manufacturing. Powering them with powerful engines from Cummins provides world-class performance and complies with all relevant environmental regulations. Its low fuel consumption and maintenance costs make operating the backhoe loaders even more attractive. The ergonomically designed cabins provide perfect operating comfort and excellent visibility with tinted safety glass. The front and side control panels are all equipped with the latest technology to guide the operator. Equipped with systems to improve performance and productivity, these backhoe loaders are an ideal combination of concentrated power, safety and extreme user-friendliness.

ENGINE

Model	Model Cummins B3.3 (BS III, Tier 3)
Type	4- stroke, turbocharged
Cylinders	4
Bore/ Stroke	95 mm / 115 mm
Displacement	3.3 L
Fuel injection	Rotary high pressure
Fuel	Diesel
Fuel filter	5 microns with water separator
Cooling	Liquid
Engine speeds	<ul style="list-style-type: none">• Rated speed, 2200 rpm• Low idle 750 - 850 rpm• High Idle, no load 2400 - 2500 rpm
Horsepower @ 2200 rpm	<ul style="list-style-type: none">• Gross 80 hp (59.6 kW)
Radiator	<ul style="list-style-type: none">• Style: 10 Blade Suction• Diameter: 550 mm• Ratio : 1:1:1
Water pump style	Integral
Pump operating angle ratings	<ul style="list-style-type: none">• Side-to-side Rated 35°• Fore and aft Rated 35°

POWERTRAIN

Transmission (standard)	4F- 4R Manual Synchro shuttle
Gear ratios	
Forward/Reverse	<ul style="list-style-type: none">• 1st: 5.6 / 4.64• 2nd: 3.48 / 2.88• 3rd: 1.59 / 1.314• 4th: 0.793 / 0.657
Travel Speeds	
Forward Reverse (km/hour)	<ul style="list-style-type: none">• 1st: 5.9 / 7.12• 2nd: 9.4 / 11.35• 3rd: 20.20 / 24.38• 4th: 38.8 / 46.8
Torque converter ratio	2.64
Rear axle ratio	<ul style="list-style-type: none">• Differential ratio: 2.467:1• Planetary hub ratio: 6.923• Total reduction ratio: 17.077
Service brakes	<ul style="list-style-type: none">• Individually applied, power assisted, hydraulically actuated, maintenance free, self-adjusting, outboard mounted, wet disc, 3 per side• Disc area. 0.28 m²
Parking brakes	Cable actuated, cam mounted on the axle, actuating the service brakes.

ELECTRICAL

Voltage	12 volts, negative ground
Alternator	120 Amp
Battery	720 CCA heavy duty, maintenance free battery.

CAB CONTROLS AND FEATURES

Main Features

- Ergonomically designed cabin
- Suspension seat with 180° swivel mechanical suspension which is adjustable to operator's body weight
- Retractable seatbelt
- Joystick control
- Fully opening rear window
- Front & rear windscreen washers / wipers
- Adjustable steering column
- Cab interior light, Beacon lamp
- Two rear adjustable working lights
- Rear view mirrors
- Battery master switch
- Tool box
- Storage compartment
- 2-Speaker, Radio Receiver (With USB Compatibility).

Gauges

- Engine water temperature
- Transmission oil temperature
- Fuel level
- Tachometer / Hourmeter
- Speedometer

Warning Lights

- Air cleaner restriction
- Alternator
- Engine oil pressure low
- Parking brake engagement
- High Engine water temp

Audible alarms

- Backup

Horn

- Single front

OPERATING WEIGHT

Standard weight-7500 kg

Base weight calculated on standard machine configuration with standard loader bucket (2280mm/ 1.1 m³) standard backhoe bucket (800mm/ 0.27 m³) fully fueled and with operator.

Optional Attachments

Attachment	Total weight	In lieu of weight
Multipurpose Clam shell bucket (1.1 m ³)	654 kg	+ 302 kg
Extended dipper	421 kg	+ 218 kg
800 mm backhoe bucket	185 kg	+ 30 kg
600 mm backhoe bucket	156 kg	- 29 kg
300 mm backhoe bucket	112 kg	- 43 kg

HYDRAULICS

Pump

- Open Center with Gear Pump

Standard main relief pressure

- 230 +/- 5 bar @ 121 lpm

Filtration

- 10-micron, return line, full flow, condition indicator light for filter.

Oil Cooler

- 4-section, Heavy-duty

Loader flow @ rated engine rpm

- 121 lpm @ 2200 rpm

Loader control valve

- Two or three spool closed centre valve. Two & three spool valves have a single lever manual control for lift and tilt functions. Three spool valves use a manual control for the auxiliary function. The lift lever has a positive hold 'Float' position and a 'return-to-dig' (optional) feature. System main relief valve is single stage with manual Backhoe controls

Backhoe flow @ rated engine rpm

- 121 lpm @ 2200 rpm

Backhoe Control Valve

- Six or seven-spool sectional open center proportional control valves with specific flows for each function.

OTHER SPECIFICATIONS

Front tyres

- 2WD - 9 x 16, 16-ply rating,

Rear tyres

- 16.9 x 28, 12-ply rating

Other features

- Lifting hooks on standard bucket
- Mechanical joystick with self-leveling and electric return-to-dig (optional).
- Functions controlled by joystick are lift, dump, horn, and transmission de-clutch.

Turn circle diameter (without brakes)

- Outer tyre clearance : 8.4 m
- Outer bucket clearance : 11.1 m

Turn circle diameter (with brakes)

- Outer tyre clearance : 7.3 m
- Outer bucket clearance : 10.5 m

Loader Std. Bucket

- Width / Capacity = 2280 mm / 1.1 m³

Backhoe Std. Bucket

- Width / Capacities = 800 mm / 0.27 m³

Backhoe Optional Buckets

- 300 mm 0.083 m³ • 400 mm 0.16 m³
- 600 mm 0.21 m³ • 700 mm 0.24m³

SERVICE CAPACITY

Fuel tank

125 Litres

Engine oil (with filters)

9.5 Litres

Cooling system

17 Litres

Transmission

16 Litres

Hydraulic tank

75 Litres

Hydraulic system

150 Litres

Axle oil

- Front axle (4WD) 7.8 Litres

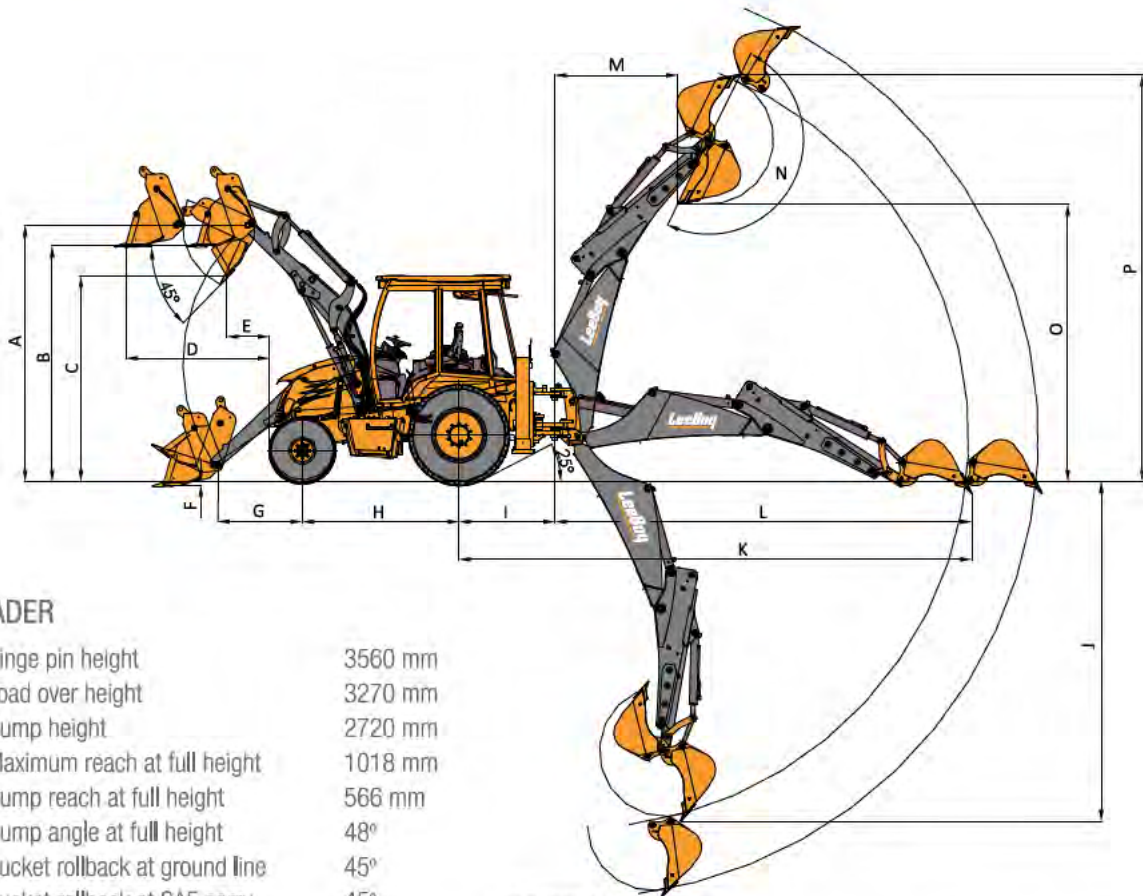
- Rear 16 Litres

Brake oil

2 Litres

DIMENSIONS

WORKING RANGES



LOADER

A. Hinge pin height	3560 mm
B. Load over height	3270 mm
C. Dump height	2720 mm
D. Maximum reach at full height	1018 mm
E. Dump reach at full height	566 mm
Dump angle at full height	48°
Bucket rollback at ground line	45°
Bucket rollback at SAE carry	45°
Bucket rollback at full height (Adjustable)	44.2°
F. Digging depth	100 mm
Width of bucket cutting edge	2280 mm
G. Distance between hinge pin and front-axle centre	1460 mm
Lift capacity to full height	3725 kgs
Breakout force: Loader	
• Lift	51 kN
• Bucket	60 kN
H. Wheelbase	2180 mm

BACKHOE

I. Backhoe swing centre distance	1335 mm
J. Digging depth	4700 mm
K. Reach from rear axle to centerline	7000 mm
L. Reach from swing centre	5700 mm
M. Loading reach	1800 mm
N. Bucket rotation angle	200°
• Swing arc	180°
O. Loading height	3915 mm
P. Digging height	5600 mm
Breakout force:	
• Bucket cylinder	50 kN
• Arm cylinder	32.5 kN

LeeBoy

LeeBoy India Construction Equipment Private Limited,

Plot # 289-292, Bommasandra Jigani Link Road, KIADB Industrial Area, Jigani Hobli, Anekal Taluk, Bangalore-560105 India, Ph: +91 80 6742 5500

Email: sales@leeboyindia.com Visit: www.leeboy.com

Please contact your LeeBoy Distributor:

Bangalore: +91 80 6742 5500
Delhi: +91 11 4104 8411

Singapore:
+65 6264 5895

USA:
+1 704 966 3300

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 has designed and manufactured superior road construction and maintenance equipment since 1964. The LeeBoy brand is well-known for its quality and innovative design. This standard of quality provides contractors with dependable, low maintenance equipment with a high re-sale value. LeeBoy is dedicated to providing top quality parts and service support on every unit sold.