

525m & 525e CRAWLER EXCAVATOR

CUMMINS 6BTA 5.9 (BSII - 169 C ENGINE) | QSB 6.7 170 (TIER III CERTIFIED)
GROSS POWER 169 HP @ 2100 RPM / 170 HP AT 2000 RPM | OPERATING WEIGHT -
24,200 KG (LOAD UNDER CARRIAGE) | BUCKET CAPACITY: 1.24 M³ | ERGONOMICALLY
DESIGNED CABIN WITH | EXCELLENT VISIBILITY AND SUPERIOR OPERATOR COMFORT

LeeBoy



Unmatched Power, Performance & Productivity

MOTOR GRADERS | CRAWLER EXCAVATORS | BACKHOE LOADERS | CONCRETE BATCHING PLANTS | DRILL RIGS

BUILTBY
LISTENING
KNOWLEDGE
EXPERTISE

525m & 525e

CRAWLER EXCAVATOR

LeeBoy crawler excavators are the result of intensive first-hand dialogues with customers and other stakeholders to not only enhance productivity and operational efficiency, but also deliver a product that surpasses customer expectations. LeeBoy crawler excavator is at the top of its weight class as compared to other machines leading to better productivity features like digging depth, and superior stability. The structures have been designed to accommodate multiple attachments for various work applications. It uses a sturdy and highly reliable under-carriage which enables lower ground pressure leading to higher stability and a longer life span. LeeBoy crawler excavator comes equipped with an industry proven engine, load sensing hydraulic system, an electro-hydraulic fan drive and advanced electronic display making the LeeBoy crawler excavator an efficient and powerful machine for all excavation needs.



ENGINE	525m	525e
Model:	Cummins 6BTA 5.9 C 169 C (BS II Certified)	QSB 6.7 170 (Tier III certified)
Type:	Liquid cooled, 6 cylinder, 4 - Stroke, direct injection with turbo charged engine	Liquid cooled, 6 - cylinder, 4 - stroke CRDI Turbo charged
Displacement:	5.9 Liters	6.7 liter
Fuel Filter:	3 Micron & 10 micron + Moisture separator	3 Micron & 10 micron + Moisture separator
Air Intake System:	Dry type fine filter with active pre-cleaner	Dry type fine filter with active pre-cleaner
Cooling:	Water Glycol 50:50	Water Glycol 50:50
Horse power:	169 hp @ 2100 rpm	170 hp @ 2000 rpm
Net maximum Torque:	Gross 660 Nm @ 1500 rpm	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:	Negative oil disc brakes built into the motor
Travel Speed:	High: 5.5 km/ hour, Low: 3 km/ hour
Drawbar pull:	230 kN
Gradeability:	70% (35 °)

OPERATING WEIGHT: 24,200 Kg

(Weight calculated on long carriage configuration with 5.7 m boom, 2.4 m arm, 1.0 m³ GP bucket, fully fueled tank and with operator.)

Ground pressure: 0.46 kg/ cm²

ELECTRICALS

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

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
Bucket cylinders	1	120 mm	1080 mm	80 mm

TECHNICALS

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 1 x 21 lpm

RELIEF VALVE SETTINGS

Boom, Arm & Bucket:	330 kgf / cm ²
Travel Circuit:	330 kgf / cm ²
Power Boost:	350 kgf / cm ²
Swing Circuit:	270 kgf / cm ²
Control Circuit:	Electronic
Pilot Control Pump:	Gear Type
Main Control Valves:	9 - Spool
Oil Cooler:	Air Cooled

SWING SYSTEM

Swing drive motor:	Axial piston with in-built static brakes, rebound damping valve and anti-shock, anti-cavitation valve
Service brake:	Hydraulic brake with static park brake when the lever is in neutral position with 5-second delay ramp
Parking brake:	Hydraulic negative disc brake inbuilt motor
Swing speed:	0 - 13 rpm
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
Types of shoes:	Heavy duty, triple grouser
No. of shoes per side:	51

SERVICE CAPACITY

Fuel tank:	400 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)
Sle Ring Grease:	10 kgs

OPTIONAL ATTACHMENTS

Under carriage:	700 mm, 800 mm, 900 mm shoes General purpose bucket - 1.24 m ³ 0.8 m ³ - Loading bucket - 1.6 m ³ 2 m, 3 m
Buckets:	
Rock bucket:	
Arm:	<ul style="list-style-type: none">• Rock breaker piping kit• HVAC• Centralized lubrication system• Diesel lift pump

OPERATOR ENVIRONMENT

- Ergonomically designed, steel cabin mounted on viscous vibration dampeners.
- 150° reclining, adjustable seat, Retractable seatbelt
- Sunroof
- Electronic display
- Differential piston joysticks for highly cushioned operations.
- Foot pedals for traction along with inching levers.
- An auxiliary foot pedal for the rock breaker
- Auto idle after 5 seconds,
- Power boost, auto idle & infinitely variable power modes for the rock breaker, economy & productivity modes.
- Stereo
- High visibility beacon with dual or quadro flash
- Work-lights on upper structure cabin top and boom.

INSTA - i TELEMATICS

- LeeBoy's customized telematics solution from Trimble, USA
- For location, machine health and working data monitoring system
- Monitor critical parameters like utilization, fuel level and machine location via google maps across multiple sites
- Mobile alerts enabled for instant real-time data

NOW AVAILABLE WITH SANDVIK BREAKERS

1. **Piston Accumulator** Nitrogen charged accumulator provides power in any application.
2. **Vibration Dampening** Reduced vibration increases life of the breaker while minimizing stress on the carrier.
3. **Large Piston** High impact energy increases breaking power and efficiency
4. **Large Tool** Massive tool transfers breakers blow energy deep into the material, whilst extending tool's working life.



5. **Built-in grease channel** enables breakers to be fitted with auto lubrication system (M17, L20 and L30C). t,
6. **Stone Claw** - Reduces wear on the housing and increases usability in material handling.
7. **Wear resistant housing** Protects effectively the power cells 8. Idle Blow Protection (M17C, L20C and L30C)
8. **Prevents idle strokes** which avoids internal stress extending life span driving to a lower owning & operating costs.

Models:

L-20C Pneumatic Breaker
BR 2166 Hydraulic Breaker

SPECIFICATIONS

525

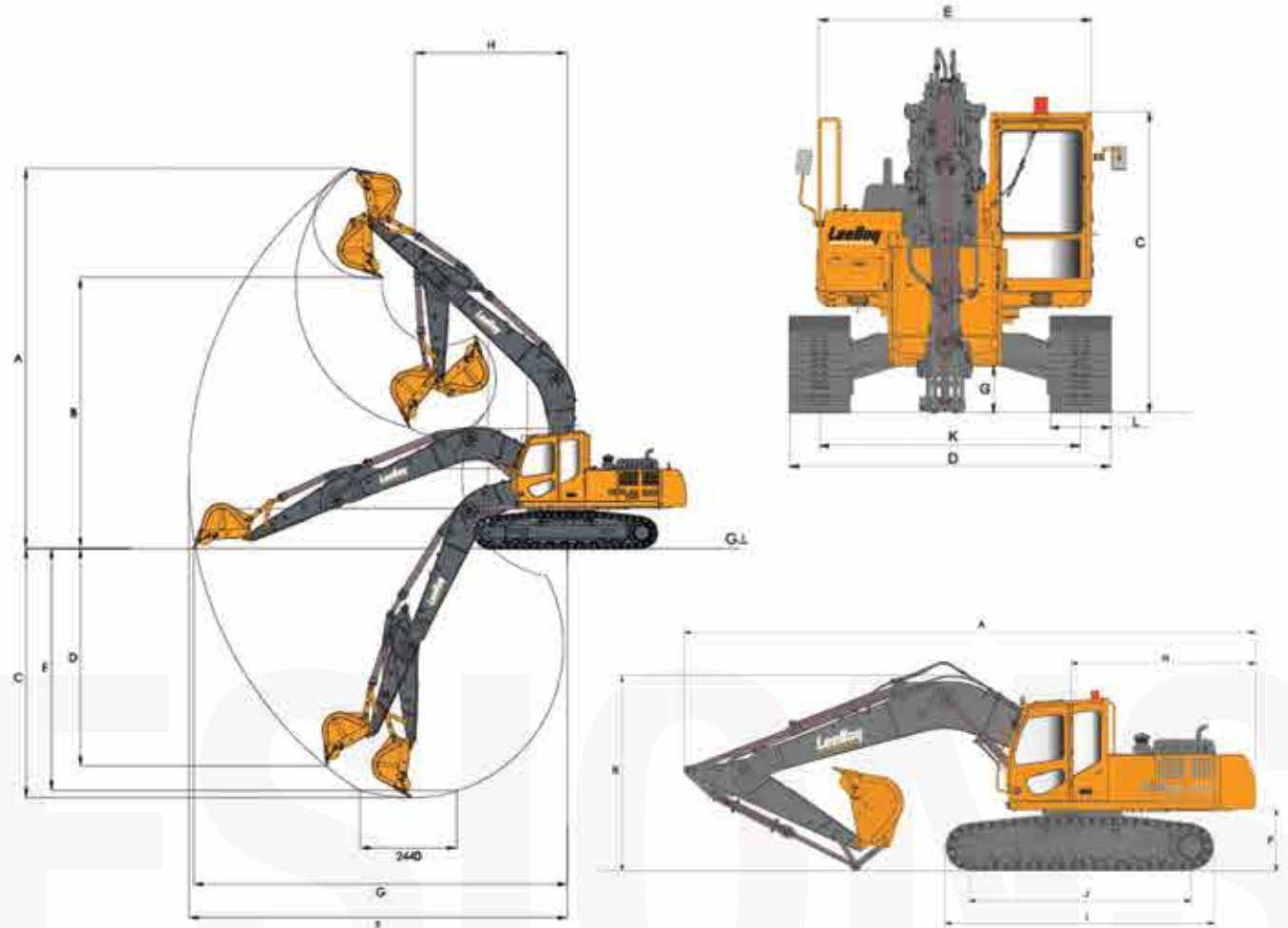
CRAWLER EXCAVATOR

WORKING RANGES

	2.4 m arm	3 m arm
A. Maximum digging height	9671 mm	9980 mm
B. Maximum dumping height	6886 mm	7235 mm
C. Maximum digging depth	6290 mm	6863 mm
D. Maximum digging depth (vertical wall level)	5494 mm	6014 mm
E. Maximum digging depth (at 8' level)	6114 mm	6732 mm
F. Maximum digging reach	9536 mm	10,118 mm
G. Maximum digging reach (at ground level)	9430 mm	10,012 mm
H. Minimum swing radius	3858 mm	3879 mm
• Bucket digging force	145 kN	145 kN
• Arm crowding force	111 kN	88.8 kN

TRANSPORT DIMENSIONS

A. Overall length	9848 mm
B. Overall height (to top of boom)	3402 mm
C. Overall height (to top of cabin)	3111 mm
D. Overall width (under carriage)	3180 mm
E. Overall width (upper structure)	2710 mm
F. Ground clearance (counter weight)	1042 mm
G. Ground clearance (minimum)	460 mm
H. Tail swing radius	2985 mm
I. Track length	4634 mm
J. Track length on ground	3825 mm
K. Track gauge / width	2580 mm
L. Track shoe width	600 mm



LeeBoy

LeeBoy India Construction Equipment Private Limited

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