



# Cat<sup>®</sup> 323F LN

## Hydraulic Excavator

*The Cat 323F LN is the perfect choice for contractors who need maximum production coupled with best-in-class fuel efficiency.*

### Technology

- Get to grade quickly and accurately with standard Cat<sup>®</sup> Grade Control, a simple-to-use system that provides real-time bucket tip positioning and cut and fill data right through the standard cab monitor.
- Get to grade up to 45% faster with less effort with Cat Grade with ASSIST, a system that automates work you typically do with manual controls.
- Easily upgrade to AccuGrade™, a 3D system that will help you make perfect cuts and contours on more complex jobs.

### Performance

- Dig with maximum breakout force at all times regardless of engine speed and power mode.
- Lift objects smoothly and controllably without time limit using the optional heavy lift function.
- Stay productive with a smart emissions system that works without interruption.

### Efficiency

- Meets EU Stage IV emission standards with 5% less fuel consumption than the Stage IIIB C4.4 ACERT™ engine.
- Actively manage fuel consumption in changing digging conditions using three selectable power modes.
- Take advantage of fuel-saving flexibility with up to B20 biofuel capability.

### Versatility

- Maximize your uptime by speeding attachment changes with optional Cat couplers.
- Get to work more quickly with Cat tool control, an exclusive system that stores pressures and flows for up to 20 attachments.
- Expand your performance with optional auxiliary hydraulics and attachments from Cat Work Tools.

### Maintenance

- Spend less time servicing the machine with extended maintenance intervals and a maintenance-free diesel particulate filter.
- Safely perform most routine maintenance like daily greasing and fluid taps from ground level.
- Access service compartments through wide doors that securely latch in place.

### Comfort

- Work in quiet satisfaction with viscous mounts that limit cab vibration and special roof lining and sealing that reduce interior sound.
- Stay content with a consistent cab temperature provided by standard automatic climate control.
- All heated seats include a reclining back, upper and lower slide adjustments, and height and tilt angle adjustments.

### Durability

- Count on long service life with our multi-plate fabrications, castings, and forgings used in high-stress areas of the upper and lower frames.
- Depend on long life from Cat booms and sticks with our advanced robot welding techniques and ultrasound inspection to ensure quality and reliability.
- Rely on our undercarriage in demanding conditions with our high-tensile-strength steel track shoes, links, rollers, idlers, and final drives; water, debris, and dust are kept out because of greased track delivering even longer wear life and reduced travel noise.



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## Engine

Engine Model	C4.4 ACERT
Engine Power – ISO 14396	122 kW/164 hp/166 PS
Net Power – SAE J1349	120 kW/161 hp/163 PS
Engine rpm – Operation	1,800 rpm
Engine rpm – Travel	1,800 rpm
Bore	105 mm
Stroke	127 mm
Displacement	4.4 L

- The 323F LN meets Stage IV emission standards.
- No engine power derating required below 3000 m altitude.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- Power rating at 1,800 rpm.

## Machine Weights

Minimum Operating Weight*	22 300 kg
Maximum Operating Weight**	23 600 kg
*Long narrow undercarriage, Reach boom 5.7 m, R2.5 m stick, GD 1.3 m <sup>3</sup> bucket and 500 mm TG shoes.	
**Long narrow undercarriage, VA boom, R2.9 m stick, GD 1.3 m <sup>3</sup> bucket and 500 mm TG shoes.	

## Swing Mechanism

Swing Speed	11.2 rpm
Maximum Swing Torque	72 kN·m

## Drive

Maximum Gradeability	35°/70%
Maximum Travel Speed – High	5.6 km/h
Maximum Drawbar Pull	205 kN

## Sound Performance

ISO 6396 – Operator Sound Pressure Level	68 dB(A)
ISO 6395 – Exterior Sound Power Level	99 dB(A)

## Hydraulic System

Main System – Maximum Flow (total)	428 L/min
Maximum Pressure – Equipment	35/38 MPa
Maximum Pressure – Travel	35 MPa
Maximum Pressure – Swing	25 MPa
Pilot System – Maximum Flow (total)	24.3 L/min
Pilot System – Maximum Pressure	3920 kPa

## Service Refill Capacities

Fuel Tank Capacity	310 L
DEF Tank Capacity	21 L
Cooling System	30 L
Engine Oil	25 L
Swing Drive	8 L
Final Drive	8 L
Hydraulic System (including tank)	260 L
Hydraulic Tank	153 L

## Dimensions

Boom	Reach Boom 5.7 m		VAB 2.7 m Stub/3.3 m Fore	
	R2.9*	R2.5*	R2.9*	R2.5*
Stick				
Shipping Height	3020 mm	3080 mm	3000 mm	3020 mm
Shipping Length	9560 mm	9570 mm	9820 mm	9820 mm
Tail Swing Radius	2830 mm	2830 mm	2830 mm	2830 mm
Length to Center of Rollers	3650 mm	3650 mm	3650 mm	3650 mm
Track Length	4450 mm	4450 mm	4450 mm	4450 mm
Ground Clearance	450 mm	450 mm	450 mm	450 mm
Track Gauge	2000 mm	2000 mm	2000 mm	2000 mm
Transport Width – 500 mm Shoe	2550 mm	2550 mm	2550 mm	2550 mm
Handrail Height	3010 mm	3010 mm	3010 mm	3010 mm
Counterweight Clearance	1020 mm	1020 mm	1020 mm	1020 mm

\*With 1.3 m<sup>3</sup> bucket and 500 mm shoe.

## Working Ranges

Boom	Reach Boom – 5.7 m		VAB	
	R2.9	R2.5	R2.9	R2.5
Stick				
Bucket Capacity	GD 1.3 m <sup>3</sup>	GD 1.3 m <sup>3</sup>	GD 1.3 m <sup>3</sup>	GD 1.3 m <sup>3</sup>
Maximum Digging Depth	6710 mm	6290 mm	6680 mm	6270 mm
Maximum Reach at Ground Line	9850 mm	9450 mm	10 200 mm	9800 mm
Maximum Cutting Height	9450 mm	9240 mm	11 520 mm	11 180 mm
Maximum Loading Height	6500 mm	6300 mm	8410 mm	8070 mm
Minimum Loading Height	2180 mm	2600 mm	3270 mm	3670 mm
Maximum Depth Cut for 2440 mm Level Bottom	6540 mm	6100 mm	6580 mm	6170 mm
Maximum Vertical Wall Digging Depth	5690 mm	5290 mm	5340 mm	4940 mm

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