



Cat[®] 323F L

Hydraulic Excavator

Technology

- Cat[®] Grade Control Depth and Slope, helps operators work more productively and accurately with less rework.
- Product Link[™]/VisionLink[®] connects owners to their equipment, providing access to machine location, hours, fuel consumption, idle time, events, and diagnostic codes.

Versatility

- Multiple configurations for a variety of applications.
- Heavy-duty reach and variable angle booms for up-close and distant work.
- Super long reach front parts offer a maximum reach of 15.7 m, with a maximum depth of 11.7 m.
- Common linkages between E and F Series.
- Multiple Cat Work Tools available for a wide range of applications.
- Optional tool control maximizes efficiency and performance.

Productivity

- Same bucket force, stick force, and swing torque as the 323E.
- Heavy lift mode increases max pressure to 38 000 kPa, reducing engine speed and pump flow to improve controllability.
- Emissions package works behind the scenes and won't interrupt your job process.

Efficiency

- C7.1 ACERT[™] meets EU Stage IV emission standards.
- Integrated electronics, fuel, air, and aftertreatment reduce fuel consumption and emissions and extend service intervals.
- DPF requires no servicing.
- Equipped to run on up to B20 biodiesel fuel for fuel-saving flexibility.
- Three power modes – high, standard, and eco – help manage fuel consumption.
- Automatic engine speed control lowers rpm based on load to reduce fuel consumption.
- Automatic engine idle shutdown turns machine off to save fuel.

Serviceability

- Routine maintenance items like grease points and fluid taps reachable at ground level.
- Service door design helps prevent debris entry; doors latch in place to enhance ease of service.
- Efficient cooling system adjusts up and out of the way to make maintenance easy.

Comfort

- Full-size roll-over protective structure (ROPS) certified cab is quiet and comfortable.
- Automatic climate control system helps maintain consistent cab temperature.
- Joystick consoles and armrests are adjustable.
- Seats are adjustable and feature air suspension and heated and cooled options.
- LED monitor is easy to navigate and programmable in 42 languages.
- Drink holders, storage areas, and auxiliary power outlets offer added convenience.

Durability

- Built for long service life.
- XT hydraulic hose provides high working pressure capability.
- Upper frame with special mounts supports ROPS cab.
- Lower frame reinforced to enhance component durability.
- Booms and sticks built with baffle plates for added strength.
- Box-section structures with multi-plate fabrications, castings, and forgings are used in high-stress areas.
- Track shoes, links, rollers, idlers, and final drives built with high-tensile-strength steel.
- Grease-lubricated track link prevents dirt and debris from entering.
- Heavy-duty bottom guards protect components from track debris and site material.
- Counterweight bolted directly to the main frame for rigidity.



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Engine

Engine Model	Cat C7.1 ACERT	
Engine Power – ISO 14396	122 kW	166 PS
Engine Power – ISO 9249	120 kW	163 PS
Bore	105 mm	
Stroke	135 mm	
Displacement	7.1 L	

Hydraulic System

Main System – Maximum Flow (Total)	423 L/min	
Maximum Pressure – Equipment		
Heavy Lift	38 000 kPa	
Normal	35 000 kPa	
Maximum Pressure – Travel	35 000 kPa	
Maximum Pressure – Swing	25 500 kPa	
Pilot System – Maximum Flow	20 L/min	
Pilot System – Maximum Pressure	3920 kPa	

Drive

Maximum Travel Speed	5.5 km/h
Maximum Drawbar Pull	205 kN

Machine Weights

Minimum Operating Weight	22 600 kg
Maximum Operating Weight	25 700 kg

Swing

Swing Speed	11.0 rpm
Swing Torque	61.8 kN-m

Service Refill Capacities

Fuel Tank Capacity	410 L
Cooling System	30 L
Engine Oil	25 L
Swing Drive (each)	8 L
Final Drive (each)	8 L
Hydraulic System Oil (including tank)	260 L
Hydraulic Tank Oil	159 L
DEF Tank	20 L

Sound Performance

ISO 6396 – Operator Sound Pressure Level	68 dB(A)
ISO 6395 – Exterior Sound Power Level	100 dB(A)

Dimensions

Boom	Reach Boom 5.7 m	VA Boom
Stick	R2.9 m	R2.9 m
Bucket Capacity	1.19 m ³	1.3 m ³
Shipping Height	3130 mm	3010 mm
Shipping Length	9540 mm	9780 mm
Tail Swing Radius	2830 mm	2830 mm
Length to Center of Rollers	3650 mm	3650 mm
Track Length	4460 mm	4460 mm
Ground Clearance	450 mm	450 mm
Track Gauge	2380 mm	2380 mm
Transport Width		
600 mm Shoe	2980 mm	2980 mm
700 mm Shoe	3080 mm	3080 mm
790 mm Shoe	3170 mm	3170 mm
Handrail Height	3010 mm	3010 mm
Counterweight Clearance	1020 mm	1020 mm

Working Ranges

Boom	Reach Boom 5.7 m	VA Boom
Stick	R2.9 m	R2.9 m
Bucket Capacity	1.19 m ³	1.3 m ³
Maximum Digging Depth	6710 mm	6680 mm
Maximum Reach at Ground Line	9850 mm	10 200 mm
Maximum Cutting Height	9450 mm	11 520 mm
Maximum Loading Height	6500 mm	8410 mm
Minimum Loading Height	2180 mm	3270 mm
Maximum Depth Cut for 2440 mm Level Bottom	6540 mm	6580 mm
Maximum Vertical Wall Digging Depth	5610 mm	5290 mm

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