



# Cat<sup>®</sup> 323F L

## Hydraulic Excavator

### Technology

- Optional Cat<sup>®</sup> Grade Control Depth and Slope helps operators work more productively and accurately with less rework.
- Optional Cat GRADE with ASSIST automates boom and bucket movement to ensure your grade is accurate, helping you reach your target up to 45% faster than traditional techniques.
- Product Link<sup>™</sup>/VisionLink<sup>®</sup> connects owners to their equipment, providing access to machine location, hours, fuel consumption, idle time, events, and diagnostic codes.

### Versatility

- Multiple configurations are available for a variety of applications.
- Heavy-duty reach is available for up-close and distant work.
- Super long reach is offered for specialty work.
- E and F Series share common linkage for tool compatibility.
- Multiple Cat Work Tools available for a wide range of applications.
- Optional tool control maximizes efficiency and performance.

### Productivity

- Heavy lift mode increases max pressure to 38 000 kPa/5,510 psi, 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<sup>™</sup> Tier 4 Final engine meets U.S. EPA Tier 4 Final, EU Stage IV emission standards.
- Integrated electronics, fuel, air, and aftertreatment reduce fuel consumption and emissions and extend service intervals.
- DPF requires no servicing.
- The machine can 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 are 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

- The machine is built for long service life.
- XT<sup>™</sup> hydraulic hose provides high working pressure capability.
- Upper frame has special mounts to support ROPS cab.
- Lower frame reinforced to enhance component durability.
- Booms and sticks are 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 are 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 is bolted directly to the main frame for rigidity.



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## Engine

Engine Model	Cat C7.1 ACERT	
Gross Power – SAE J1995	122 kW	164 hp
Net Power – SAE J1349	120 kW	161 hp
Engine rpm		
Operation	1,500 rpm	
Travel	1,800 rpm	
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Displacement	7.1 L	433 in <sup>3</sup>

## Hydraulic System

Main System – Maximum Flow (Total)	423 L/min	112 gal/min
Maximum Pressure – Equipment		
Heavy Lift	38 000 kPa	5,511 psi
Normal	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	25 500 kPa	3,698 psi
Pilot System – Maximum Flow	20 L/min	5.3 gal/min
Pilot System – Maximum Pressure	3920 kPa	569 psi

## Drive

Maximum Travel Speed	5.5 km/h	3.4 mph
Maximum Drawbar Pull	205 kN	46,090 lbf

## Machine Weights

Operating Weight	25 000 kg	55,100 lb
• Long undercarriage, 5.35 t counterweight, HD R5.7 (18'8") Boom, R2.9 (9'6") stick, HD 1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> ) bucket (kg) and 790 mm (31 in) HD shoes.		

## Swing

Swing Speed	11.0 rpm	
Swing Torque	61.8 kN·m	45,580 lbf·ft

## Service Refill Capacities

Fuel Tank Capacity	410 L	108.3 gal
Cooling System	30 L	7.9 gal
Engine Oil	25 L	6.6 gal
Swing Drive (each)	8 L	2.1 gal
Final Drive (each)	8 L	2.1 gal
Hydraulic System (including tank)	260 L	68.7 gal
Hydraulic Tank	159 L	42.0 gal
DEF Tank	20 L	5.3 gal

## Sound Performance

ISO 6396 – Operator Noise (Closed)	68 dB(A)
ISO 6395 – Spectator Noise	100 dB(A)

## Dimensions

		<b>HD Reach Boom 5.7 m (18'8")</b>	
<b>Stick</b>	R2.9 (9'6")		
Shipping Height	3130 mm	10'3"	
Shipping Length	9540 mm	31'4"	
Tail Swing Radius	2830 mm	9'3"	
Length to Center of Rollers	3650 mm	12'0"	
Track Length	4460 mm	14'8"	
Ground Clearance	450 mm	1'6"	
Track Gauge	2380 mm	7'10"	
Transport Width			
600 mm (24 in) Shoes	2980 mm	9'9"	
700 mm (28 in) Shoes	3080 mm	10'1"	
790 mm (31 in) Shoes	3170 mm	10'5"	
Handrail Height	3010 mm	9'11"	
Counterweight Clearance	1020 mm	3'4"	

With HD 1.19 m<sup>3</sup> (1.56 yd<sup>3</sup>) bucket and 790 mm (31 in) shoes.

## Working Ranges

		<b>HD Reach Boom 5.7 m (18'8")</b>	
<b>Stick</b>	R2.9 (9'6")		
Maximum Digging Depth	6720 mm	22'1"	
Maximum Reach at Ground Level	9860 mm	32'4"	
Maximum Cutting Height	9370 mm	30'9"	
Maximum Loading Height	6490 mm	21'4"	
Minimum Loading Height	2170 mm	7'1"	
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6550 mm	21'6"	
Maximum Vertical Wall Digging Depth	5060 mm	16'7"	

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