



Cat[®] 330F L

Hydraulic Excavator

2017

The 330F L is a powerful, reliable, fuel-efficient machine. The C7.1 ACERT™ engine teamed with Caterpillar's state-of-the-art hydraulic system give you the ability to move tons of material all day long with tremendous speed and precision.

Performance

- Smooth multi-function control is built in for easy operation.
- The Heavy Lift mode increases maximum pressure, reducing engine speed and pump flow to improve controllability.
- The emissions package works behind the scenes and won't interrupt the job process.

Efficiency

- The C7.1 ACERT engine meets U.S. EPA Tier 4 Final/EU Stage IV/ Korea Tier 4 emission standards, and the diesel particulate filter requires no maintenance.
- Integrated electronics, fuel, air, and aftertreatment reduce fuel consumption and emissions.
- The machine can run on up to B20 biodiesel fuel when blended with ultra-low-sulfur diesel for fuel-saving flexibility.
- Three power modes – high, standard, and eco – help manage fuel consumption.
- Automatic engine speed control lowers rpm based on load for reduced fuel consumption.

Versatility

- Utility and finishing work are fast and flawless with a Cat[®] compactor, thumb, finishing bucket or tilt bucket.
- Demolition work is easy with a Cat hammer, grapple, shear, or multi-processor.
- Couplers let you swap between attachments in seconds without leaving the cab.

Technology

- Optional Cat GRADE with ASSIST automates boom and bucket movements, including tilt buckets, to help operators of all skill levels dig flat bases and the right slopes every time.
- Product Link™/VisionLink[®] connects owners to their equipment, providing access to machine location, hours, fuel consumption, idle time, events, and diagnostic codes.
- Cat Grade Control Depth and Slope helps operators work more productively and accurately with less rework.

Maintenance

- Routine maintenance items like grease points and fluid taps are reachable at ground level.
- The service door design helps prevent debris entry, and doors latch in place to enhance ease of service.
- The cooling system is to make maintenance easy.

Comfort

- The full-size roll-over protective structure (ROPS) certified cab is quiet and comfortable.
- Automatic climate control helps maintain consistent cab temperature.
- Joystick consoles and armrests are adjustable.
- Seats are adjustable and feature air suspension and heated and cooled options.
- The LCD monitor is easy to navigate and programmable in 44 languages.

Durability

- The large swing bearing is secured with elongated bolts to help handle the most swing-intensive work.
- Abrasion-resistant Cat XT™-6 hose can stand up to high pressures over the long haul.
- Booms and sticks are built for long service.
- Box-section structures with multi-plate fabrications, castings, and forgings are used in high-stress areas.
- Greased track link between pins and bushings increases undercarriage life and reduces noise.



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Engine

Engine Model	Cat C7.1 ACERT	
Gross Power – SAE J1995	178 kW	239 hp
Net Power – SAE J1349	175 kW	235 hp
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in ³
Engine (rating) RPM	1,800 rpm	
Engine (operation) RPM	1,750 rpm	

Hydraulic System

Main System – Maximum Flow (total)	494 L/min	130 gal/min
Maximum Pressure – Equipment		
Heavy Lift	38 000 kPa	5,511 psi
Normal	35 000 kPa	5,076 psi
Maximum Pressure – Travel	37 000 kPa	5,366 psi
Maximum Pressure – Swing	27 400 kPa	3,974 psi
Pilot System – Maximum Flow	23 L/min	6.1 gal/min
Pilot System – Maximum Pressure	4100 kPa	595 psi

Drive

Maximum Gradeability	35°/70%	
Maximum Travel Speed	5.1 km/h	3.2 mph
Maximum Drawbar Pull	247 kN	55,528 lbf

Machine Weights

Minimum Operating Weight*	29 130 kg	64,220 lb
Maximum Operating Weight**	31 730 kg	69,950 lb
*6.15 m (20'2") Reach Boom, R2.65CB2 (8'8") Stick, 600 mm (24") TG Shoes, 5.8 mt (6.3 t) Counterweight, 1.76 m ³ (2.30 yd ³) GD Bucket.		
**10.2 m (33'6") SLR Boom, 7.85 m (25'9") Stick, 800 mm (31") TG Shoes, 6.75 mt (7.4 t) Counterweight, 0.53 m ³ (0.70 yd ³) Bucket.		

Swing

Swing Speed	9.6 rpm	
Maximum Swing Torque	105 kN-m	77,350 lbf-ft

Sound Performance

ISO 6396 – Operator Noise (closed)	72 dB(A)	
ISO 6395 – Spectator Noise	104 dB(A)	

Service Refill Capacities

Fuel Tank Capacity	520 L	137.4 gal
Cooling System	30 L	7.9 gal
Engine Oil (with filter)	24 L	6.3 gal
Swing Drive (each)	9 L	2.3 gal
Final Drive (each)	6 L	1.6 gal
Hydraulic System (including tank)	310 L	81.9 gal
Hydraulic Tank	175 L	46.2 gal
DEF Tank	41 L	10.8 gal

Dimensions

	Reach Boom 6.15 m (20'2")	
Stick	R3.2CB2	10'6"
Shipping Height*	3370 mm	11'1"
Shipping Length	10 390 mm	34'1"
Tail Swing Radius	3090 mm	10'2"
Length to Center of Rollers	3990 mm	13'1"
Track Length	4860 mm	15'11"
Ground Clearance	490 mm	1'7"
Track Gauge	2590 mm	8'6"
Transport Width	3290 mm	10'10"
600 mm (24") Shoes	3190 mm	10'6"
800 mm (31") Shoes	3390 mm	11'1"
Cab Height with Top Guard	3240 mm	10'8"
Counterweight Clearance**	1110 mm	3'8"

*Including shoe lug height.

**Without shoe lug height.

Working Ranges

	Reach Boom 6.15 m (20'2")	
Stick	R3.2CB2	10'6"
Maximum Digging Depth	7250 mm	23'9"
Maximum Reach at Ground Level	10 680 mm	35'0"
Maximum Cutting Height	10 010 mm	32'10"
Maximum Loading Height	6950 mm	22'10"
Minimum Loading Height	2290 mm	7'6"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	7090 mm	23'3"
Maximum Vertical Wall Digging Depth	5980 mm	19'7"

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