



Cat[®] 330F L

Hydraulic Excavator

Productivity

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

Efficiency

- C7.1 ACERT[™] 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 maintenance.
- 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

- Reach configurations are available to meet a variety of work needs.
- Common linkages between E and F Series support tool interchangeability.
- Multiple Cat[®] Work Tools available for a wide range of applications.
- Auxiliary tool control system maximizes performance of hammers, shears, compactors, multi-processors and other Cat Work Tools.

Technology

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

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.
- Cooling system is efficient and adjusts to make maintenance easy.

Comfort

- Full-size roll-over protective structure (ROPS) certified cab is quiet and comfortable.
- Automatic climate control system maintains consistent cab temperature.
- Joysticks 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 44 languages.
- Drink holders, storage areas, and auxiliary power outlets offer added convenience.

Durability

- The machine is built for long service life.
- XT[™] hydraulic hose provides high working pressure capability.
- Upper frame has special mounts to support ROPS cab.
- Lower frame is 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 built are 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	178 kW	242 hp
Net Power – SAE J1349	175 kW	239 hp
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in³

Hydraulic System		
Main System – Maximum Flow (Total)	493 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 Travel Speed	5.1 km/h	3.2 mph
Maximum Drawbar Pull	247 kN	55,528 lbf

Machine Weights		
Minimum Operating Weight*	29 209 kg	64,395 lb
Maximum Operating Weight**	30 335 kg	66,877 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, 1.54 m³ (2.02 yd³) HD Bucket.		
**6.15 m (20'2") Reach Boom, R3.2CB2 (10'6") Stick, 800 mm (31") TG Shoes, 5.8 mt (6.3 t) Counterweight, 1.54 m³ (2.02 yd³) HD Bucket.		

Swing		
Swing Speed	9.6 rpm	
Swing Torque	82.2 kN·m	60,628 lbf·ft

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

Sound Performance	
ISO 6396 – Operator Noise (Closed)	72 dB(A)
ISO 6395 – Spectator Noise	105 dB(A)

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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