



Cat[®] 330F L/ 330F LN

Hydraulic Excavator

2017

The 330F L/330F LN 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 EU Stage IV emission standards and can run on biodiesel up to B20.
- Integrated electronics, fuel, air, and aftertreatment reduce fuel consumption and emissions and extend service intervals.
- Three power modes – high, standard, and eco – help manage fuel consumption.
- Automatic engine speed control lowers rpm based on load for reduced fuel consumption.
- The sideview camera enhances visibility on the boom side of the machine to help make operators more effective and efficient.

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, and auxiliary tool control maximizes attachment performance.

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 adjusts to make maintenance easy.

Comfort

- The full-size roll-over protective structure (ROPS) certified cab is quiet and comfortable.
- Automatic climate control maintains consistent cab temperature.
- Joysticks 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.
- Guards protect components from track debris and site material.



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Engine

| | |
|---|-----------------|
| Engine Model | Cat C7.1 ACERT |
| Gross Power – SAE J1995 | 178 kW (242 PS) |
| Power – ISO 14396 | 178 kW (242 PS) |
| Net Power – SAE J1349 | 175 kW (238 PS) |
| Bore | 105 mm |
| Stroke | 135 mm |
| Displacement | 7.01 L |
| Engine (rating) RPM | 1,800 rpm |
| Engine (operation) RPM | 1,750 rpm |
| <ul style="list-style-type: none"> The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1 kg of refrigerant which has a CO₂ equivalent of 1.43 metric tonnes. | |

Machine Weights

| | |
|---|-----------|
| Minimum Operating Weight* | 29 110 kg |
| Maximum Operating Weight** | 30 730 kg |
| *Long Narrow Undercarriage, 6.15 m Reach Boom, R2.65CB2 Stick, 600 mm Triple Grouser Shoes, 5.8 mt Counterweight, 1.71 m ³ Bucket. | |
| **Long Undercarriage, 6.15 m Reach Boom, R3.2CB2 Stick, 900 mm Triple Grouser Shoes, 6.75 mt Counterweight, 1.51 m ³ Bucket. | |

Hydraulic System

| | |
|------------------------------------|-------------------|
| Main System – Maximum Flow (total) | 2×247 (494) L/min |
| Maximum Pressure – Equipment | |
| Heavy Lift | 38 000 kPa |
| Normal | 35 000 kPa |
| Maximum Pressure – Travel | 37 000 kPa |
| Maximum Pressure – Swing | 27 400 kPa |
| Pilot System – Maximum Flow | 30 L/min |
| Pilot System – Maximum Pressure | 4100 kPa |

Swing

| | |
|----------------------|----------|
| Swing Speed | 9.6 rpm |
| Maximum Swing Torque | 105 kN·m |

Drive

| | |
|----------------------|----------|
| Maximum Gradeability | 35°/70% |
| Maximum Travel Speed | 5.1 km/h |
| Maximum Drawbar Pull | 247 kN |

Sound Performance

| | |
|---|------------|
| Operator Sound Pressure Level – ISO 6396:2008 | 72 dB(A) |
| Exterior Sound Power Level – ISO 6395:2008 | 104 dB(A)* |
| *As per European Union Directive 2000/14/EC as amended by 2005/88/EC. | |

Dimensions

| Boom Option | Reach Boom – 6.15 m | |
|--|---------------------|---------------------|
| | R3.2 m | R2.65 m |
| Stick Options | | |
| Shipping Height: Height – Top of Boom | 3370 mm | 3450 mm |
| Shipping Length | 10 390 mm | 10 400 mm |
| Tail Swing Radius | 3090 mm | 3090 mm |
| Length to Center of Rollers | 3990 mm | 3990 mm |
| Track Length | 4860 mm | 4860 mm |
| Ground Clearance* | 490 mm | 490 mm |
| Track Gauge | | |
| Long Undercarriage | 2590 mm | 2590 mm |
| Long Narrow Undercarriage | 2390 mm | 2390 mm |
| Transport Width | | |
| Long Undercarriage | | |
| 600 mm Shoes | 3190 mm | 3190 mm |
| 900 mm Shoes | 3490 mm | 3490 mm |
| Long Narrow Undercarriage | | |
| 600 mm Shoes | 2990 mm | 2990 mm |
| Cab Height (including shoe lug height) | 3040 mm | 3040 mm |
| Counterweight Clearance* | 1110 mm | 1110 mm |
| Bucket Capacity | 1.51 m ³ | 1.51 m ³ |

*Without shoe lug height.

Working Ranges

| Boom Option | Reach Boom – 6.15 m | |
|--|---------------------|---------------------|
| | R3.2 m | R2.65 m |
| Stick Options | | |
| Maximum Digging Depth | 7250 mm | 6700 mm |
| Maximum Reach at Ground Line | 10 680 mm | 10 200 mm |
| Maximum Loading Height | 6950 mm | 6800 mm |
| Minimum Loading Height | 2290 mm | 2840 mm |
| Maximum Depth Cut for 2440 mm Level Bottom | 7090 mm | 6520 mm |
| Maximum Vertical Wall Digging Depth | 5980 mm | 5680 mm |
| Bucket Capacity | 1.51 m ³ | 1.71 m ³ |
| Bucket Digging Force (ISO) | 126 kN | 145 kN |
| Stick Digging Force (ISO) | 179 kN | 180 kN |

Note: All dimensions may vary depending on bucket type.

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