



Cat[®] 315F L

Hydraulic Excavator

Performance

- C4.4 ACERT™ U.S. EPA Tier 4 Final/EU Stage IV engine
- Same working range, similar stick and bucket force and swing torque as 314E
- Equipped to run on up to B20 biodiesel fuel
- Two power modes, high power and eco mode, to help manage fuel consumption
- Auto engine idle shutdown to save fuel, reduce emissions, and extend service intervals

Versatility

- Compact radius to work in tight spaces
- Cat[®] buckets and tools designed to max out machine performance
- Auxiliary hydraulics available to support a variety of tools
- Available tool control and quick coupler for speedy tool changes

Comfort

- Full-size ROPS certified cab
- Adjustable joysticks and seats with air suspension and heat and cooling options
- Monitor programmable in 42 languages
- Automatic climate control system
- Drink holder and easy-to-reach storage areas
- Auxiliary power outlets

Serviceability

- Routine maintenance points at ground level
- Wide service doors for easy access
- Filters grouped to reduce service time

Technology

- Cat Connect technology to improve job site efficiency
- Available Cat Grade Control to help operators create a level base and precise slope with ease
- Product Link™/VisionLink[®] to connect owners to the machine, providing access to location, hours, fuel consumption, idle time, events, and diagnostic codes

Durability

- Modified X-frame structure for enhanced service life
- Robot welded, Caterpillar designed boom and sticks
- Greased track link between pins and bushings to increase undercarriage life

Safety

- Hydraulic activation lever to lock out all hydraulic functions
- Handrail, anti-skid plating, countersunk bolts to reduce slipping and tripping
- Ground-level fuel cutoff switch to shut down engine
- Standard rearview camera and mirrors for enhanced visibility



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Engine

Engine Model	Cat C4.4 ACERT	
Gross Power – SAE J1995	74 kW	100 hp/101 PS
Net Power – SAE J1349/ISO 9249	72 kW	97 hp/98 PS
Engine Power – ISO 14396	74 kW	100 hp/101 PS
Bore	105 mm	4.1 in
Stroke	127 mm	5.0 in
Displacement	4.4 L	270 in³

Hydraulic System

Main System – Maximum Flow (Total)	254 L/min	67 gal/min
Maximum Pressure – Equipment	30 500 kPa	4,420 psi
Maximum Pressure – Power Offset Boom (optional)	29 900 kPa	4,340 psi
Maximum Pressure – Travel	35 000 kPa	5,080 psi
Maximum Pressure – Swing	23 000 kPa	3,340 psi
Pilot System – Maximum Flow	21.9 L/min	4.8 gal/min
Pilot System – Maximum Pressure	4120 kPa	600 psi

Drive

Maximum Travel Speed	5.4 km/h	3.4 mph
Maximum Drawbar Pull	113 kN	25,400 lbf

Machine Weights

Minimum Operating Weight	15 100 kg	33,296 lb
Maximum Operating Weight	17 140 kg	37,794 lb

Swing

Swing Speed	11.5 rpm	
Swing Torque	30.9 kN·m	22,790 lbf·ft

Service Refill Capacities

Fuel Tank Capacity	178 L	47.0 gal
DEF Tank Capacity	19 L	5.0 gal
Cooling System	28 L	7.40 gal
Engine Oil (with filter)	13.5 L	3.6 gal
Swing Drive (each)	2.4 L	0.6 gal
Final Drive (each)	3 L	0.8 gal
Hydraulic System (including tank)	160 L	42.3 gal
Hydraulic Tank	84 L	22.2 gal

Sound Performance

ISO 6396 – Operator Sound Pressure Level	69 dB(A)
ISO 6395 – Exterior Sound Power Level	101 dB(A)

Dimensions*

Reach Boom – 4.65 m (15'3")		
R3.0 m (9'10")		
Stick		
Shipping Height	3000 mm	9'10"
Shipping Length with Blade	8010 mm	26'3"
Tail Swing Radius	1490 mm	4'11"
Length to Center of Rollers	3040 mm	10'0"
Track Length	3750 mm	12'4"
Ground Clearance	440 mm	1'5"
Track Gauge	1990 mm	6'6"
Transport Width – 600 mm (24") Shoes	2590 mm	8'6"
Cab Height	2810 mm	9'3"
Cab Height with Top Guard	2950 mm	9'8"
Counterweight Clearance	860 mm	2'10"

Working Ranges*

Reach Boom – 4.65 m (15'3")		
R3.0 m (9'10")		
Stick		
Maximum Digging Depth	5950 mm	19'6"
Maximum Reach at Ground Level	8680 mm	28'6"
Maximum Cutting Height	9640 mm	31'8"
Maximum Loading Height	7190 mm	23'7"
Minimum Loading Height	2060 mm	6'9"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5660 mm	18'7"
Maximum Vertical Wall Digging Depth	5280 mm	17'4"

Bucket & Stick Forces*

Reach Boom – 4.65 m (15'3")		
R3.0 m (9'10")		
Stick		
Bucket Type	General Duty Bucket	
Bucket Digging Force (SAE)	85 kN	19,200 lbf
Bucket Digging Force (ISO)	95.3 kN	21,420 lbf
Stick Digging Force (SAE)	57 kN	12,800 lbf
Stick Digging Force (ISO)	58.4 kN	13,130 lbf

*With 0.53 m³ (0.69 yd³), 900 mm (35") bucket.

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