



Cat[®] 318D2 L

Hydraulic Excavator

2017

Unmatched versatility, improved controllability, easy operation, and a comfortable, redesigned operator station help make the 318D L Series 2 an industry-leading performer.

Performance

- A powerful C4.4 ACERT™ electrically controlled engine meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3/ EU Stage IIIA.
- Two-pump hydraulic system pressure delivers terrific digging performance and productivity.
- Hydraulic cross-sensing system uses two hydraulic pumps under all operating conditions, improving productivity with faster implement speeds and quicker, stronger pivot turns.

Efficiency

- Economy mode maintains breakout forces and lift capacity at standard power, balancing demands of performance and fuel economy.
- Boom and stick regeneration circuits save energy during boom-down and stick-in operation.
- New compact design utilizes shorter tubes and lines to reduce friction and pressure drops, resulting in more efficient use of power.

Serviceability

- The service door on the right side of the upper structure allows ground-level access to the pump, pilot filter, drain filter, and the engine oil filter.
- Easily accessible, ground-level service locations allow quick and efficient maintenance.
- The left service door allows easy access to the engine radiator, oil cooler, air-to-air-aftercooler, primary filter with water separator (if the two are integrated) and secondary fuel filter.
- The radiator air filter features a double-element construction for superior cleaning efficiency; a warning is displayed on the monitor screen inside the cab when the filter plugs.

Comfort

- An adjustable seat and joystick console are designed to meet individual preferences.
- Low-effort pilot-operated joystick controls are designed to match natural wrist and arm position for maximum comfort and minimum fatigue.
- The full-color LCD monitor is programmable in 42 languages.
- The cab shell is attached to frame with viscous rubber mounts to dampen vibrations and sound levels, enhancing operator comfort.

Versatility

- Site prep and finishing work are quick and easy with a Cat[®] grapple, thumb, and hammer.
- Utility work is fast and flawless with a Cat bucket and compactor.
- A coupler lets you swap between attachments in seconds without leaving the cab.
- See the whole money-making attachment line for your machine at www.cat.com/attachments.

Durability

- The modified X-frame structure provides a long service life.
- Robot-welded and stress-relieved heavy duty boom and stick are standard.
- Track shoes, links, rollers, idlers, and final drives are built with high-tensile-strength steel.
- Greased track link between pins and bushings increases undercarriage life and reduces noise.

Safety

- Anti-skid plating covering the entire upper structure and storage box prevents slipping during maintenance.
- Countersunk bolts reduce trip hazards during service and maintenance.
- The engine radiator fan is enclosed by fine wire mesh, reducing risk of an accident.



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Engine

Engine Model	C4.4 ACERT	
Engine Power – ISO 14396	93 kW	125 hp
Net Power – SAE J1349/ISO 9249	84 kW	113 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5.00 in
Displacement	4.4 L	269 in ³
<ul style="list-style-type: none"> • Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator. • No engine derating required below 2300 m (7,545 ft) altitude. • The 318D L Series 2 with a powerful C4.4 ACERT engine that meets Brazil MAR-1 emission standards, equivalent to Tier 3/Stage IIIA. 		

Hydraulic System

Main System – Maximum Flow (total)	272 L/min	72 gal
Swing System – Maximum Flow	136 L/min	36 gal
Maximum Pressure – Equipment	35 000 kPa	5,080 psi
Maximum Pressure – Swing	22 600 kPa	3,280 psi
Pilot System – Maximum Flow	23.7 L/min	1,450 in ³ /min
Pilot System – Maximum Pressure	4120 kPa	600 psi
Boom Cylinder – Bore	110 mm	4 in
Boom Cylinder – Stroke	1193 mm	47 in
Stick Cylinder – Bore	120 mm	5 in
Stick Cylinder – Stroke	1331 mm	52 in
Bucket Cylinder – Bore	110 mm	4 in
Bucket Cylinder – Stroke	1039 mm	41 in

Drive

Maximum Travel Speed	4.8 km/h	3.0 mph
Maximum Drawbar Pull	156 kN	35,070 lbf
Maximum Slope	35°/70%	

Machine Weight

Operating Weight – Long Undercarriage		
Reach Boom – 5.1 m (16'9"), R2.6 m (8'6") Stick, 790 mm (31") Triple Grousers Track Shoes, GD 0.76 m ³ (1.00 yd ³) Bucket	17 900 kg	39,463 lb
Reach Boom – 5.1 m (16'9"), R2.6 m (8'6") Stick, 600 mm (24") Triple Grousers Track Shoes, GD 0.76 m ³ (1.00 yd ³) Bucket	17 500 kg	38,580 lb

Swing Mechanism

Swing Speed	8.9 rpm	
Swing Torque	44.7 kN-m	32,970 lb-ft

Service Refill Capacities

Fuel Tank Capacity	300 L	79.3 gal
Cooling System	19.53 L	5.2 gal
Engine Oil (with filter)	16 L	4.3 gal
Swing Drive	3 L	0.8 gal
Final Drive (each)	6 L	1.6 gal
Hydraulic System (including tank)	100 L	26 gal
Hydraulic Tank	85 L	22 gal

Track

Number of Shoes (each side)	44 pieces
Number of Track Rollers (each side)	7 pieces
Number of Carrier Rollers (each side)	2 pieces

Dimensions

Boom Option	Reach Boom 5.1 m (16'9")	
Stick Options	R2.6	8'6"
Shipping Height*	3030 mm	9'11"
Shipping Height with Guard Rail	2940 mm	9'8"
Shipping Length	8540 mm	28'0"
Tail Swing Radius	2500 mm	8'2"
Length to Center of Rollers	3170 mm	10'5"
Track Length	3970 mm	13'0"
Ground Clearance	460 mm	1'6"
Track Gauge	1990 mm	6'6"
Transport Width		
500 mm (20") Shoes	2490 mm	8'2"
600 mm (24") Shoes	2590 mm	8'6"
790 mm (31") Shoes	2780 mm	9'1"
Cab Height	2870 mm	9'5"
Cab Height with Top Guard	3020 mm	9'11"
Counterweight Clearance**	1000 mm	3'3"

*Including shoe lug height

**Without shoe lug height



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