



# Cat<sup>®</sup> 323D2 L

## Hydraulic Excavator

### 2017

*The 323D2 L incorporates innovations to improve your job site efficiency through low owning and operating costs, excellent performance, and high versatility.*

### Performance

- The Cat<sup>®</sup> C7.1 ACERT™ electronic engine consumes up to 11% less fuel than the model it replaces.
- Constant engine speed control adjusts fuel pressure and hydraulic flow to maintain optimal engine speed regardless of load, maximizing productivity and reducing fuel use and noise.
- Caterpillar built hydraulic pumps deliver superior power with increased efficiency.
- Boom and stick regeneration reduces fuel consumption.

### Versatility

- Utility and finishing work are fast and flawless with Cat buckets, thumbs, and compactors.
- Demolition work is quick and easy with Cat hammers, grapples, shears, and multi-processors.
- Cat couplers let you swap between attachments in seconds without leaving the cab.
- See the whole money-making attachment lineup at [www.cat.com/attachments](http://www.cat.com/attachments).

### Safety

- The hydraulic activation lever safely locks out all hydraulic functions.
- An electric fuel priming pump speeds up starts and fuel system maintenance.
- Anti-skid plating and countersunk bolts reduce slipping in severe conditions during routine checks.
- A full-length firewall separates the pump compartment from the engine.
- A ground-level fuel cutoff switch shuts down the engine in an emergency.
- The side-view camera (Turkey and HK only) enhances visibility on the boom side of the machine to help make operators more effective and efficient.

### Durability

- The fuel system is built to be less sensitive with low-quality fuel.
- The modified X-frame structure provides long life and durability.
- Heavy-duty booms and sticks are built for tough work.
- Greased track link between pins and bushings increases undercarriage life and reduces noise.

### Ease of Operation

- The ROPS cab is ergonomically designed with easy-to-operate controls.
- Multiple seat and joystick adjustment options enhance comfort.
- Excellent work site visibility from the cab enhances productivity and safety.
- Optimized low-effort joystick controls reduces operator fatigue.
- Automatic climate control with several vents maximizes comfort.

### Maintenance

- Most service locations can be accessed at ground level.
- The number of fuel filters reduced from 4 to 3, lowering owning and operating costs.
- Filters are grouped together to reduce maintenance time.
- Pressure taps and S-O-S<sup>SM</sup> ports help maximize uptime.

### Technology

- Cat Connect technology solutions increase production and minimize operating costs.
- Link Technologies wirelessly connect you to your job site to provide essential business information through VisionLink<sup>®</sup> and Product Link<sup>™</sup>.



# Cat® 323D2 L Hydraulic Excavator

## Engine

Engine Model	Cat C7.1 ACERT	
Engine Power – ISO 14396	118 kW	158 hp
Net Power – SAE J1349/ISO 9249	116 kW	156 hp
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in <sup>3</sup>
<ul style="list-style-type: none"> <li>• The Cat C7.1 ACERT meets exhaust emissions equivalent to U.S. EPA Tier 3 and EU Stage IIIA.</li> <li>• Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.</li> <li>• The field-proven C7.1 ACERT engine can work efficiently at altitudes up to 5000 m (16,405 ft).</li> </ul>		

## Engine RPM

Operation	1,700 rpm
Travel	1,800 rpm

## Weights

Minimum Operating Weight	22 200 kg	48,900 lb
<ul style="list-style-type: none"> <li>• 5.7 m (18'8") Reach Boom + R2.9 (9'6") Stick + 600 mm (24") TG Track Shoes.</li> </ul>		
Maximum Operating Weight	23 200 kg	51,100 lb
<ul style="list-style-type: none"> <li>• 5.7 m (18'8") HD Reach Boom + R2.9 (9'6") HD Stick + 700 mm (31") DG Track Shoes.</li> </ul>		

## Swing Mechanism

Swing Speed	10.5 rpm	
Swing Torque	61.8 kN·m	45,581 lbf·ft

## Drive

Maximum Travel Speed	5.6 km/h	3.5 mph
Maximum Drawbar Pull – Long Undercarriage	205 kN	46,086 lbf·ft

## Hydraulic System

Main System – Maximum Flow at Travel (1,800 rpm)	214 × 2 L/min (428 total)	56.5 × 2 gal/min (113 total)
Main System – Maximum Flow (each) at Operation (1,700 rpm)	202 × 2 L/min (404 total)	53.4 × 2 gal/min (106.7 total)
Swing System – Maximum Flow	202 L/min	53.4 gal/min
Maximum Pressure – Equipment	35 MPa	5,076 psi
Maximum Pressure – Travel	35 MPa	5,076 psi
Maximum Pressure – Swing	25 MPa	3,626 psi
Pilot System – Maximum Flow	23.1 L/min	6.1 gal/min
Pilot System – Maximum Pressure	3920 kPa	569 psi

## Service Refill Capacities

Fuel Tank Capacity	410 L	108 gal
Cooling System	25 L	6.6 gal
Engine Oil	22 L	5.8 gal
Swing Drive	8 L	2.1 gal
Final Drive (each)	10 L	2.6 gal
Hydraulic System (including tank)	260 L	68.7 gal
Hydraulic Tank	120 L	31.7 gal

## Sound Performance

Operator Sound (ISO 6396)	71 dB(A)
Spectator Sound (ISO 6395)	103 dB(A)

## Standards

Brakes	ISO 10265:2008
Cab/FOGS	SAE J1356:MAR2013/ ISO 10262:1998

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