



Cat[®] 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[®] C7.1 ACERT™ electronic controlled engine meets China Nonroad Stage III emission standards.
- Constant engine speed control adjusts fuel pressure and hydraulic flow to maintain optimal engine speed regardless of load, maximizing productivity and reducing fuel usage and noise.
- An electric fuel priming pump speeds up starts and fuel system maintenance.
- Boom and stick regeneration reduces fuel consumption.

Versatility

- Cat attachments open you up to multiple money-making opportunities.
- Demolition work is quick and easy with a Cat hammer, thumb, shear, or multiprocessor.
- Utility and finishing work are fast and flawless with a Cat tilt bucket and compactor.
- A coupler lets you swap between attachments in seconds without leaving the cab.
- See the whole attachment line for your machine at www.cat.com/attachments.

Ease of Operation

- The 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 reduce operator fatigue.
- Automatic climate control maximizes comfort.

Safety

- The hydraulic activation lever safely locks out all hydraulic functions.
- Anti-skid plating and countersunk bolts reduce slipping in severe conditions and 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.

Durability

- The C7.1 ACERT engine robust fuel system boasts improved reliability as it's less sensitive to low quality fuel.
- The 323D2 has the largest structures in its size class.
- 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.
- An air precleaner protects the engine and extends engine life in dusty environments.

Maintenance

- Most service locations can be accessed at ground level.
- Fuel filters reduced from four to three with 500 hour service intervals help lower operational cost.
- Filters are grouped together to reduce maintenance time.
- Pressure taps and S·O·SSM ports help maximize uptime.

Technology

- Integrated Cat technology solutions increase production and minimize operating costs.
- Product Link™ reports key information from the machine to any location.



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 ³
Engine RPM		
Operation	1,700 rpm	
Travel	1,800 rpm	
<ul style="list-style-type: none"> • The Cat C7.1 ACERT engine meets China Nonroad Stage III emission standards. • Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator. • The field-proven C7.1 ACERT engine can work efficiently at altitudes up to 5000 m (16,405 ft). 		

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
Drawbar Pull	205 kN	46,086 lbf

Track

Standard with Long Undercarriage	600 mm	24 in
Optional for Long Undercarriage	790 mm	31 in
Number of Shoes Each Side		
Standard Undercarriage	49	
Long Undercarriage	52	
Number of Track Rollers Each Side		
Standard Undercarriage	8	
Long Undercarriage	3	
Number of Carrier Rollers Each Side		
Standard Undercarriage	2	
Long Undercarriage	2	

Weights

Operating Weight	22 100 kg	48,720 lb
<ul style="list-style-type: none"> • 600 mm (24") TG Track + 5.7 m (18' 8") Reach Boom + HD R2.9 m (9'6") Stick + 1.19 m³ (1.56 yd³) HD Bucket. 		

Dimensions

Boom	Reach Boom – 5.7 m (18'8")			
	HD R2.9B1 (9'6")		HD R2.5B1 (8'2")	
Stick Options				
Shipping Height*	3030 mm	9'11"	3050 mm	10'1"
Shipping Length	9460 mm	31'	9460 mm	31'
Tail Swing Radius	2750 mm	9'	2750 mm	9'
Length to Center of Rollers – Long Undercarriage	3650 mm	12'	3650 mm	12'
Track Length – Long Undercarriage	4455 mm	14'7"	4455 mm	14'7"
Ground Clearance**	450 mm	1'6"	450 mm	1'6"
Track Gauge – Long Undercarriage	2380 mm	7'10"	2380 mm	7'10"
Transport Width – Long Undercarriage				
600 mm (24") Shoes	2980 mm	9'9"	2980 mm	9'9"
Cab Height*	2950 mm	9'8"	2950 mm	9'8"
Counterweight Clearance**	1020 mm	3'4"	1020 mm	3'4"
*Including shoe lug height.				
**Without shoe lug height.				

Hydraulic System

Main System – Maximum Flow at Travel	214×2 L/min	56.5×2 gal/min
Main System – Maximum Flow at Operation	202×2 L/min	53.4×2 gal/min
Swing System – Maximum Flow	202 L/min	53.4 gal/min
Maximum Pressure – Equipment	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	25 000 kPa	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 Oil Capacity (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)

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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