



Cat[®] 320D2/D2 L

Hydraulic Excavator with C7.1 engine

2017

The 320D2/D2 L is configured for heavy construction, and it will deliver great fuel savings and productivity in truck loading, trenching and lifting.

Performance

- The Cat[®] C7.1 mechanically controlled engine meets Brazil MAR-1 emission standards.
- The low-pressure fuel system allows the engine to be more robust in areas with low-quality fuel.
- The high-efficiency main pump delivers superior power for best-in-class performance.
- Economy mode burns less fuel than the previous generation 320D2/D2 L with no loss in lift or dig force.
- The variable-speed fan with viscous clutch 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.

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 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 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.

Maintenance

- Most service locations can be accessed at ground level.
- The number of fuel filters are reduced from four to two with 500 hour service intervals to 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 LinkTM reports key information from the machine to any location.



Cat® 320D2/D2 L Hydraulic Excavator with C7.1 engine

Engine

Engine Model	Cat C7.1	
Engine Power – ISO 14396	112 kW	150 hp
Net Power – SAE J1349	109 kW	146 hp
Engine RPM		
Operation	1,700 rpm	
Travel	1,800 rpm	
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in ³
<ul style="list-style-type: none"> • The 320D2/D2 L meets Brazil MAR-1 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 altitude capability (without aid) of 320D2/D2 L is up to 4000 m (13,123 ft) with natural power derate above sea level. • Power rating at 1,800 rpm. 		

Weights

Standard Undercarriage		
Maximum Operating Weight*	21 700 kg	47,800 lb
Minimum Operating Weight**	21 200 kg	46,700 lb
Long Undercarriage		
Maximum Operating Weight*	22 300 kg	49,200 lb
Minimum Operating Weight**	21 700 kg	47,800 lb
*R5.7 (18'8") HD Reach Boom, R2.9 (9'6") B1 HD Reach stick, HD 1.4 m ³ (1.83 yd ³) bucket and 790 mm (31") TG shoes.		
**R5.7 (18'8") HD Reach Boom, R2.5 (8'2") B1 HD Reach stick, HD 1.4 m ³ (1.83 yd ³) bucket and 600 mm (24") shoes.		

Swing Mechanism

Swing Speed	10.9 rpm	
Maximum Swing Torque	71 kN-m	52,367 lbf-ft

Drive

Maximum Gradeability	35°/70%	
Maximum Travel Speed – High	5.4 km/h	3.4 mph
Maximum Drawbar Pull	205 kN	46,086 lbf

Hydraulic System

Main System – Maximum Flow (Total)	404 L/min	106.7 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

Service Refill Capacities

Fuel Tank Capacity	410 L	108.3 gal
Cooling System	25 L	6.6 gal
Engine Oil	22 L	5.8 gal
Swing Drive	8 L	2.1 gal
Final Drive	8 L	2.1 gal
Hydraulic System (Including Tank)	260 L	68.7 gal
Hydraulic Tank	138 L	36.5 gal

Sound Performance

ISO 6395 (External)	102 dB(A)
ISO 6396 (Inside Cab)	72 dB(A)
<ul style="list-style-type: none"> • When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT98, meets the requirements for operator sound exposure limits in effect at time of manufacture. • Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment. 	

Standards

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

Working Ranges

Boom Options	HD Reach Boom 5.7 m (18'8")		HD Reach Boom 5.7 m (18'8")	
Stick Options	R2.9 (9'6") B1 HD		R2.5 (8'2") B1 HD	
Bucket Tip Radius	1560 mm	5'1"	1560 mm	5'1"
Maximum Digging Depth	6720 mm	22'1"	6300 mm	20'8"
Maximum Reach at Ground Line	9890 mm	32'5"	9470 mm	31'1"
Maximum Loading Height	6490 mm	21'4"	6290 mm	20'8"



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