



Cat[®] 320F L

Hydraulic Excavator

2017

The Cat[®] 320F L is built for those who need strong, reliable performance at a low cost per hour. The machine features an efficient C4.4 ACERT™ engine that's light on fuel. It also has a proven hydraulic system that will help you take on a variety of tasks. Unlike other brands in its size class, the machine comes equipped with more unique attributes: Robust structures, strong and stable undercarriage, a quiet and comfortable roll-over protective structure (ROPS) cab, and easy-to-reach service points are just a few. Bottom line: If you are looking for a reliable, durable, low-cost-per-hour excavator to get your work done – backed by unmatched support from a brand you can trust – look no further than the 320F L. It simply makes a great deal of business sense.

Performance

- Cat C4.4 ACERT U.S. EPA Tier 4 Final/EU Stage IV engine burns up to 8.5% less fuel than the Tier 4 Interim/Stage IIIB 320 with similar lift and stability.
- Constant engine speed control manages pump and engine rpm for improved fuel efficiency.
- Heavy Lift function makes for smooth, controlled lifting without time limitation.
- Maximum bucket breakout force is available 100% of the time without time limitation.

Versatility

- Demolition work is easy with a Cat hammer, grapple, shear, or multi-processor.
- Utility and finishing work is fast and flawless with a Cat compactor, thumb, finishing bucket or tilt bucket.
- See the whole money-making attachment line for your machine at www.cat.com/attachments.

Comfort

- The full-size roll-over protective structure (ROPS) certified cab is quiet and comfortable.
- Automatic climate control helps maintain consistent cab temperature.
- Joystick consoles and armrests are adjustable.
- Seats are adjustable and feature air suspension and heated and cooled options.
- The LCD monitor is easy to navigate and programmable in 42 languages.

Serviceability

- Most service points like grease points and fluid taps are reachable at ground level.
- Wide service doors and one-piece hood make for easy access.
- Easy-to-reach pressure taps and S-O-SSM ports help maximize uptime.
- An electric fuel priming pump speeds up starts and fuel system maintenance.

Durability

- Boom and sticks are built for long service.
- Greased track link between pins and bushings increase undercarriage life.
- The high-pressure fuel system with high-pressure pump and injectors are made for long-term durability and reliability.
- The large swing bearing is secured with elongated bolts to help handle the most swing-intensive work.

Safety

- The hydraulic activation lever locks out all hydraulic functions.
- Handrail, anti-skid plating, and countersunk bolts reduce slipping and tripping.
- The full-length firewall separates the pump and engine compartments.
- The standard rearview camera and mirrors enhance visibility.

Technology

- Cat Connect technology increases job site efficiency.
- Product Link™/VisionLink[®] connects owners to equipment and critical information like machine location, fuel consumption, idle time, events, and diagnostic codes.



Cat® 320F L Hydraulic Excavator

Engine

Engine Model	C4.4 ACERT	
Gross Power – SAE J1995	122 kW	164 hp
Net Power – SAE J1349	120 kW	161 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5.00 in
Displacement	4.4 L	269 in ³
Engine RPM	1,800 rpm	

Hydraulic System

Main System – Maximum Flow (total)	428 L/min	113 gal/min
Maximum Pressure – Equipment		
Heavy Lift	38 000 kPa	5,511 psi
Normal	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	24.3 L/min	6.4 gal/min
Pilot System – Maximum Pressure	3920 kPa	569 psi

Drive

Maximum Travel Speed	5.6 km/h	3.5 mph
Maximum Drawbar Pull	205 kN	46,086 lbf

Machine Weights

Operating Weight	22 300 kg	49,200 lb
• Long Undercarriage, Reach Boom, R2.9 (9'6") Stick, GD 1.19 m ³ (1.56 yd ³) Bucket and 790 mm (31") Triple Grouser Shoes.		

Swing

Swing Speed	11.2 rpm	
Swing Torque	61.8 kN-m	45,581 lbf-ft

Service Refill Capacities

Fuel Tank Capacity	410 L	108 gal
DEF Tank Capacity	21 L	5.5 gal
Cooling System	30 L	7.9 gal
Engine Oil	25 L	6.6 gal
Swing Drive	8 L	2.1 gal
Final Drive (each)	8 L	2.1 gal
Hydraulic System (including tank)	260 L	68.7 gal
Hydraulic Tank	159 L	42 gal

Sound Performance

ISO 6396 – Operator Noise (closed)	68 dB(A)
ISO 6395 – Spectator Noise	99 dB(A)

Dimensions*

	Reach Boom – 5.7 m (18'8")	
Stick	R2.9 (9'6")	
Shipping Height	3130 mm	10'3"
Shipping Length	9540 mm	31'4"
Tail Swing Radius	2830 mm	9'3"
Length to Center of Rollers	3650 mm	12'0"
Track Length	4460 mm	14'8"
Ground Clearance	450 mm	1'6"
Track Gauge	2380 mm	7'10"
Transport Width – 790 mm (31 in) Shoes	3170 mm	10'5"
Handrail Height	3010 mm	9'11"
Counterweight Clearance	1020 mm	3'4"

*With 1.19 m³ (1.56 yd³) HD Bucket

Working Ranges*

	Reach Boom – 5.7 m (18'8")	
Stick	R2.9 (9'6")	
Maximum Digging Depth	6720 mm	22'1"
Maximum Reach at Ground Line	9860 mm	32'4"
Maximum Cutting Height	9370 mm	30'9"
Maximum Loading Height	6490 mm	21'4"
Minimum Loading Height	2170 mm	7'1"
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6550 mm	21'6"
Maximum Vertical Wall Digging Depth	5060 mm	16'7"

*With 1.19 m³ (1.56 yd³) HD Bucket

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

© 2016 Caterpillar
All rights reserved

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

CAT, CATERPILLAR, SAFETY.CAT.COM, their respective logos, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

VisionLink is a trademark of Trimble Navigation Limited, registered in the United States and in other countries.

AEXQ1777
(ADSD-N/ANZ)

