



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 EU Stage IV engine burns up to 8.5% less fuel than the Stage IIIB 320 with similar lift and stability.
- Constant engine speed control manages pump and engine rpm for improved fuel efficiency.
- Boom and stick recirculation reduced fuel consumption, improves cycle times.
- 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

- Cat attachments open up you up to multiple opportunities.
- Couplers let you swap between attachments in seconds without leaving the cab.
- Buckets are built specifically for the work you face, greatly enhancing your productivity and profitability.
- Demolition work is easy with a Cat hammer, grapple, shear, or multi-processor.

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 LED 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, countersunk bolts reduce slipping and tripping.
- Full-length firewall separates the pump and engine compartments.
- Ground-level fuel cutoff switch shuts down the engine.
- The standard rearview camera, standard right-hand side 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 | |
| Engine Power – ISO 14396 | 122 kW | 166 PS |
| Engine Power – ISO 9249 | 120 kW | 163 PS |
| Bore | 105 mm | |
| Stroke | 127 mm | |
| Displacement | 4.4 L | |
| Engine RPM | 1,800 rpm | |
| • The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1 kg of refrigerant which has a CO ₂ equivalent of 1.43 metric tonnes. | | |

Hydraulic System

| | |
|------------------------------------|------------|
| Main System – Maximum Flow (total) | 428 L/min |
| Maximum Pressure – Equipment | |
| Heavy Lift | 38 000 kPa |
| Normal | 35 000 kPa |
| Maximum Pressure – Travel | 35 000 kPa |
| Maximum Pressure – Swing | 25 000 kPa |
| Pilot System – Maximum Flow | 24.3 L/min |
| Pilot System – Maximum Pressure | 3920 kPa |

Drive

| | |
|----------------------|----------|
| Maximum Travel Speed | 5.6 km/h |
| Maximum Drawbar Pull | 205 kN |

Machine Weights

| | |
|--------------------------|-----------|
| Minimum Operating Weight | 21 500 kg |
| Maximum Operating Weight | 23 000 kg |

Swing

| | |
|--------------|-----------|
| Swing Speed | 11.2 rpm |
| Swing Torque | 61.8 kN-m |

Sound Performance

| | |
|--|----------|
| ISO 6396 – Operator Sound Pressure Level | 68 dB(A) |
| ISO 6395 – Exterior Sound Power Level | 99 dB(A) |

Service Refill Capacities

| | |
|---------------------------------------|-------|
| Fuel Tank Capacity | 410 L |
| DEF Tank Capacity | 21 L |
| Cooling System | 30 L |
| Engine Oil | 25 L |
| Swing Drive | 8 L |
| Final Drive (each) | 8 L |
| Hydraulic System Oil (including tank) | 260 L |
| Hydraulic Tank Oil | 115 L |

Dimensions

| Boom | Reach Boom 5.7 m | VA Boom |
|-----------------------------|------------------|---------|
| Stick | R2.9 m | R2.9 m |
| Bucket Capacity | 1.19 m³ | 1.3 m³ |
| Shipping Height | 3130 mm | 3010 mm |
| Shipping Length | 9540 mm | 9780 mm |
| Tail Swing Radius | 2830 mm | 2830 mm |
| Length to Center of Rollers | 3650 mm | 3650 mm |
| Track Length | 4460 mm | 4460 mm |
| Ground Clearance | 450 mm | 450 mm |
| Track Gauge | 2380 mm | 2380 mm |
| Transport Width | | |
| 600 mm Shoe | 2980 mm | 2980 mm |
| 700 mm Shoe | 3080 mm | 3080 mm |
| 790 mm Shoe | 3170 mm | 3170 mm |
| Handrail Height | 3010 mm | 3010 mm |
| Counterweight Clearance | 1020 mm | 1020 mm |

Working Ranges

| Boom | Reach Boom 5.7 m | VA Boom |
|--|------------------|-----------|
| Stick | R2.9 m | R2.9 m |
| Bucket Capacity | 1.19 m³ | 1.3 m³ |
| Maximum Digging Depth | 6710 mm | 6680 mm |
| Maximum Reach at Ground Line | 9850 mm | 10 200 mm |
| Maximum Cutting Height | 9450 mm | 11 520 mm |
| Maximum Loading Height | 6500 mm | 8410 mm |
| Minimum Loading Height | 2180 mm | 3270 mm |
| Maximum Depth Cut for 2440 mm Level Bottom | 6540 mm | 6580 mm |
| Maximum Vertical Wall Digging Depth | 5610 mm | 5290 mm |

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

© 2017 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.

AEXQ1810-01
Replaces AEXQ1810
(EU)

