



# Cat<sup>®</sup> 320F L

## *Hydraulic Excavator*

### **Performance**

- Powerful, efficient Cat<sup>®</sup> C4.4 ACERT™ U.S. EPA Tier 4 Final/ EU Stage IV engine
- Up to 8.5% less fuel consumption than 320E in standard mode
- Similar lift and stability as 320E
- Isochronous control to manage pump and engine speed for improved fuel efficiency
- Boom and stick recirculation for reduced fuel consumption, faster cycle times
- Two power modes to help manage fuel consumption

### **Versatility**

- Cat buckets and tools designed and matched to maximize machine performance
- Auxiliary hydraulics available to support a variety of tools
- Available tool control and quick coupler for speedy tool changes

### **Comfort**

- Ergonomically designed roll-over protective structure (ROPS) cab
- Easy-to-operate controls
- Fully adjustable seat and armrests
- Automatic climate control system

### **Serviceability**

- Most service points at ground level
- Wide service doors and one-piece hood for easy service access
- Filters grouped for reduced service time
- Easy-to-reach pressure taps and S-O-S<sup>SM</sup> ports to help maximize uptime
- Electric fuel priming pump to speed up starts and fuel system maintenance

### **Durability**

- Modified X-frame structure for enhanced service life
- Robot welded, Caterpillar designed boom and sticks
- Greased track link between pins and bushings to increase undercarriage life
- High-pressure fuel system with new high-pressure pump and injectors for enhanced durability and reliability

### **Safety**

- Hydraulic activation lever to lock out all hydraulic functions
- Handrail, anti-skid plating, countersunk bolts to reduce slipping and tripping
- Full-length firewall to separate pump and engine compartments
- Ground-level fuel cutoff switch to shut down engine
- Standard rearview camera and mirrors for enhanced visibility

### **Technology**

- Cat Connect technology to increase job site efficiency
- Product Link™/VisionLink<sup>®</sup> to connect 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 <sup>3</sup>

## Hydraulic System

Main System – Maximum Flow (Total)	428 L/min	113.1 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	22 000 kg	48,500 lb
• Long Undercarriage, Reach Boom 5.7 m (18'8"), R2.9 m (9'6") Stick, 1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> ) HD Bucket, 700 mm (28") 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	108.3 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	97 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		
600 mm (24 in) Shoes	2980 mm	9'9"
700 mm (28 in) Shoes	3080 mm	10'1"
Handrail Height	3010 mm	9'11"
Counterweight Clearance	1020 mm	3'4"

\*With 1.19 m<sup>3</sup> (1.56 yd<sup>3</sup>) 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 m<sup>3</sup> (1.56 yd<sup>3</sup>) HD Bucket

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