



# 320

## Hydraulic Excavator

## Technical Specifications

### Engine

Engine Model	Cat® C4.4	
Engine Power (ISO 9249)	121 kW	162 hp
Engine Power (ISO 14396)	122 kW	164 hp
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in <sup>3</sup>

- The 320 meets U.S. EPA Tier 4 Final emission standards.
- Recommended for use up to 4500 m (14,764 ft) altitude with engine power derate above 3000 m (9,842.5 ft).
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- Rating at 1,900 rpm.

### Swing Mechanism

Swing Speed	11.30 rpm	
Maximum Swing Torque	74 kN·m	54,440 lbf·ft

### Weights

Operating Weight	22,500 kg	49,600 lb
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- Reach boom, R2.9 (96") stick, HD 1.19 m<sup>3</sup> (1.56 yd<sup>3</sup>) bucket and 790 mm (31 in) triple grouser shoes.

### Track

Standard Track Shoe Width	790 mm	31 in
Number of Shoes (each side)	49	
Number of Track Rollers (each side)	8	
Number of Carrier Rollers (each side)	2	

### Drive

Maximum Gradeability	35%/70%	
Maximum Travel Speed	5.7 km/h	3.5 mph
Maximum Drawbar Pull – Long Undercarriage	203 kN	45,996 lbf

### Hydraulic System

Main System – Maximum Flow – Implement	429 L/min (214.5 × 2 pumps)	113 gal/min (56.5 × 2 pumps)
Maximum Pressure – Equipment – Normal	35,000 kPa	5,075 psi
Maximum Pressure – Equipment – Lift Mode	38,000 kPa	5,510 psi
Maximum Pressure – Travel	34,300 kPa	4,974 psi
Maximum Pressure – Swing	26,800 kPa	3,886 psi
Boom Cylinder – Bore	120 mm	4.7 in
Boom Cylinder – Stroke	1260 mm	49.6 in
Stick Cylinder – Bore	140 mm	5.5 in
Stick Cylinder – Stroke	1504 mm	59.2 in
Bucket Cylinder – Bore	120 mm	4.7 in
Bucket Cylinder – Stroke	1104 mm	43.5 in

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**Robert R. Redfield**



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