



320 GX

Hydraulic Excavator

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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320 GX Hydraulic Excavator Specifications

Engine

| | | |
|----------------------|--------------------------|---------------------|
| Engine Model | Cat® C4.4 | |
| Net Power | | |
| ISO 9249 | 103.6 kW | 139 hp |
| ISO 9249 (DIN) | 141 hp (metric) | |
| Engine Power | | |
| ISO 14396 | 108 kW | 145 hp |
| ISO 14396 (DIN) | 147 hp (metric) | |
| Bore | 105 mm | 4 in |
| Stroke | 127 mm | 5 in |
| Displacement | 4.4 L | 269 in ³ |
| Biodiesel Capability | Up to B20 ⁽¹⁾ | |

- Cat C4.4 engine meets UN ECE R96 Stage IIIA emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Recommended for use up to 4500 m (14,764 ft) altitude with engine power derate above 3000 m (9,842 ft).
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator.
- Engine speed at 2,000 rpm.

⁽¹⁾Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to:

- ✓ 100% biodiesel FAME (fatty acid methyl ester)*
- ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.

*For use of blends higher than 20% biodiesel, consult your Cat dealer.

**Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

Track

| | | |
|---------------------------------------|--------|-------|
| Optional Track Shoes Width | 600 mm | 24 in |
| Optional Track Shoes Width | 790 mm | 31 in |
| Optional Track Shoes Width | 800 mm | 31 in |
| Number of Shoes (each side) | 45 | |
| Number of Track Rollers (each side) | 7 | |
| 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 | 201 kN | 45,187 lbf |

Hydraulic System

| | | |
|--|---|--|
| Main System – Maximum Flow – Implement | 429 L/min (214.5 L/min × 2 pumps) | 113 gal/min (56.7 gal/min × 2 pumps) |
| Maximum Pressure – Equipment – Normal | 35 000 kPa | 5,075 psi |
| Maximum Pressure – Travel | 35 000 kPa | 5,075 psi |
| Maximum Pressure – Swing | 25 000 kPa | 3,625 psi |
| Boom Cylinder – Bore | 120 mm | 5 in |
| Boom Cylinder – Stroke | 1260 mm | 50 in |
| Stick Cylinder – Bore | 135 mm | 5 in |
| Stick Cylinder – Stroke | 1493 mm | 59 in |
| Bucket Cylinder – Bore | 115 mm | 5 in |
| Bucket Cylinder – Stroke | 1104 mm | 43 in |

Service Refill Capacities

| | | |
|---|--------|-----------|
| Fuel Tank Capacity | 390 L | 103.0 gal |
| Cooling System | 24.5 L | 6.5 gal |
| Engine Oil | 15 L | 4.0 gal |
| Swing Drive | 5.5 L | 1.5 gal |
| Final Drive (each) | 4.5 L | 1.2 gal |
| Hydraulic System (including tank) | 218 L | 57.6 gal |
| Hydraulic Tank (including suction pipe) | 115 L | 30.4 gal |

Standards

| | |
|---|-------------------------|
| Brakes | ISO 10265:2008 |
| Cab/Operator Protective Guards (OPG) (Optional) | ISO 10262:1998 Level II |

Swing Mechanism

| | | |
|----------------------|-----------|---------------|
| Swing Speed | 11.07 rpm | |
| Maximum Swing Torque | 74 kN·m | 54,580 lbf·ft |

Weights

| | | |
|---|-----------|-----------|
| Operating Weight | 19 800 kg | 43,700 lb |
| • Reach boom, R2.7 (8'9") stick, General Duty (GD) 0.93 m ³ (1.22 yd ³) bucket, 600 mm (24") triple grouser shoes, and 3600 kg (7,940 lb) counterweight. | | |
| Operating Weight | 20 400 kg | 45,000 lb |
| • Reach boom, R2.7 (8'9") stick, GD 0.93 m ³ (1.22 yd ³) bucket, 790 mm (31") triple grouser shoes, and 3600 kg (7,940 lb) counterweight. | | |
| Operating Weight | 19 800 kg | 43,700 lb |
| • Reach boom, R2.5 (8'2") stick, GD 1.00 m ³ (1.31 yd ³) bucket, 600 mm (24") triple grouser shoes, and 3600 kg (7,940 lb) counterweight. | | |

Sound Performance

| | |
|---|-----------|
| ISO 6395:2008 (External) | 102 dB(A) |
| ISO 6396:2008 (Inside Cab) | 70 dB(A) |
| • External Sound – The spectator sound power level is measured according to the test procedures and conditions specified in ISO 6395:2008 for a Cat machine that is properly equipped and maintained. | |
| • Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. | |
| • Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s). | |

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg of refrigerant, which has a CO₂ equivalent of 1.216 metric tonnes.

Operating Weights and Ground Pressures

| Base Machine Configurations | 600 mm (24 in) Triple Grouser Shoes | | 790 mm (31 in) Triple Grouser Shoes | | 800 mm (31 in) Triple Grouser Shoes | |
|---|--|-----------------|--|-----------------|--|-----------------|
| | Weight | Ground Pressure | Weight | Ground Pressure | Weight | Ground Pressure |
| | | kg (lb) | | kPa (psi) | | kg (lb) |
| Base Frame with Track Rollers and Carrier Rollers | | | | | | |
| 3600 kg (7,940 lb) Counterweight + Standard Undercarriage Base Machine | kg (lb) | kPa (psi) | kg (lb) | kPa (psi) | kg (lb) | kPa (psi) |
| Reach Boom + R2.7B1 (8'9") Stick + 0.93 m ³ (1.22 yd ³) GD Bucket with J-tips | 19 800 (43,700) | 45.6 (6.6) | 20 400 (45,000) | 35.7 (5.2) | 20 400 (45,000) | 35.2 (5.2) |
| Reach Boom + R2.5B1 (8'2") Stick + 1.00 m ³ (1.31 yd ³) GD Bucket with Advansys™ Tips | 19 800 (43,700) | 45.6 (6.6) | 20 400 (45,000) | 35.7 (5.2) | — | — |
| Reach Boom + R2.7B1 (8'9") Stick + 0.90 m ³ (1.18 yd ³) GD Bucket with Advansys Tips | 19 800 (43,700) | 45.6 (6.6) | 20 400 (45,000) | 35.7 (5.2) | 20 600 (45,000) | 35.2 (5.2) |

All operating weights include a 90% fuel tank with 75 kg (165 lb) operator.

320 GX Hydraulic Excavator Specifications

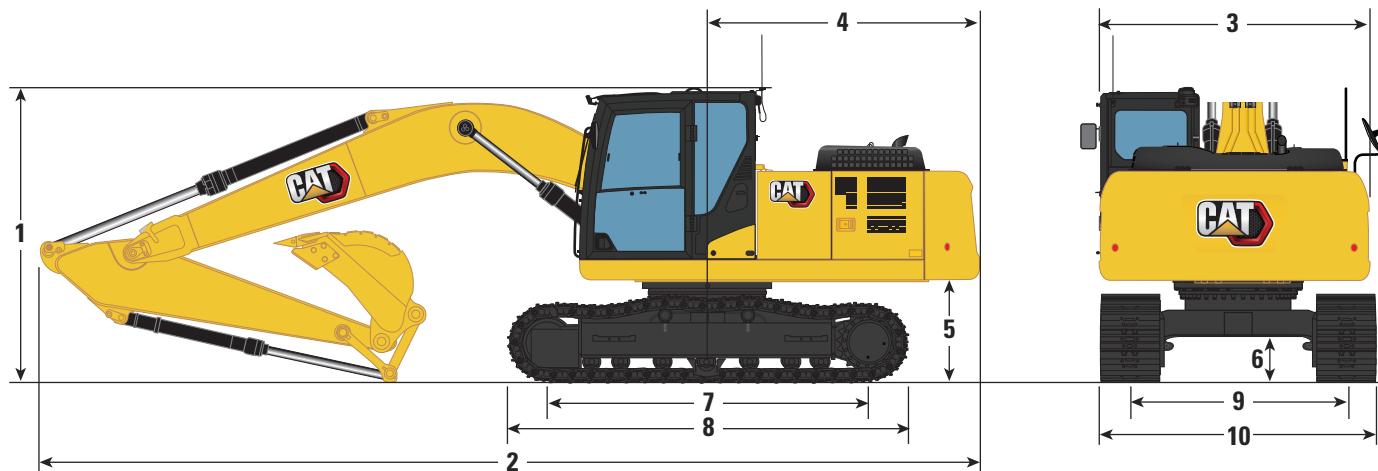
Major Component Weights

| | kg | lb |
|---|--------|--------|
| Base Machine (with 3600 kg [7,940 lb] counterweight, upper frame, standard undercarriage with rollers and two boom cylinders – does not include boom, stick, bucket, stick cylinder, bucket cylinder, tracks, 90% fuel tank and 75 kg [165 lb] operator). | 13 570 | 29,910 |
| Track Shoes: | | |
| 600 mm (24") Width, 8.5 mm (0.33") Thick Triple Grouser Track Shoes | 2390 | 5,270 |
| 790 mm (31") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes with Step Extension | 3010 | 6,640 |
| 800 mm (31") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes with Step Extension | 3050 | 6,700 |
| Two Boom Cylinders | 360 | 800 |
| Weight of 90% Fuel Tank and 75 kg (165 lb) Operator | 380 | 840 |
| Counterweight: | | |
| 3600 kg (7,940 lb) Counterweight | 3600 | 7,940 |
| Boom (including cylinder lines, pins, stick cylinder): | | |
| Reach Boom 5.7 m (18'8") | 1650 | 3,600 |
| High Pressure (HP) tool control lines for Reach Boom 5.7 m (18'8") | 80 | 180 |
| Sticks (including cylinder lines, pins, bucket cylinder, bucket linkage): | | |
| Reach Stick R2.5B1 (8'2") | 1000 | 2,190 |
| Reach Stick R2.7B1 (8'9") | 1030 | 2,260 |
| HP tool control lines for Reach Stick R2.5B1 (8'2") | 50 | 100 |
| HP tool control lines for Reach Stick R2.7B1 (8'9") | 60 | 120 |
| Buckets (without linkage, with tips and side cutters): | | |
| 0.90 m ³ (1.18 yd ³) GD with Advansys Tips | 740 | 1,640 |
| 0.90 m ³ (1.18 yd ³) GD with J-tips | 780 | 1,720 |
| 0.90 m ³ (1.18 yd ³) Utility Duty (UD) with J-tips | 750 | 1,650 |
| 0.93 m ³ (1.22 yd ³) GD with J-tips | 770 | 1,690 |
| 1.00 m ³ (1.31 yd ³) GD with Advansys Tips | 790 | 1,750 |

320 GX Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate and may vary depending on bucket selection.



Boom Option

Reach Boom
5.7 m (18'8")

Stick Options

Reach Stick

R2.5B1 (8'2")

R2.7B1 (8'9")

1 Machine Height

| | | | | |
|----------------------------------|---------|-------|---------|-------|
| Top of Cab Height | 2960 mm | 9'9" | 2960 mm | 9'9" |
| Top of OPG Height | 3150 mm | 10'4" | 3150 mm | 10'4" |
| Handrail Height | 3010 mm | 9'11" | 3010 mm | 9'11" |
| With Boom/Stick/Bucket Installed | 3240 mm | 10'7" | 3130 mm | 10'3" |
| With Boom/Stick Installed | 3010 mm | 9'11" | 3010 mm | 9'11" |
| With Boom Installed | 3010 mm | 9'11" | 3010 mm | 9'11" |

2 Machine Length

| | | | | |
|----------------------------------|---------|--------|---------|--------|
| With Boom/Stick/Bucket Installed | 9580 mm | 31'5" | 9570 mm | 31'5" |
| With Boom/Stick Installed | 9540 mm | 31'4" | 9560 mm | 31'4" |
| With Boom Installed | 8510 mm | 27'11" | 8510 mm | 27'11" |

3 Upperframe Width

| | | | |
|---------|------|---------|------|
| 2740 mm | 9'0" | 2740 mm | 9'0" |
| 2830 mm | 9'3" | 2830 mm | 9'3" |

4 Tail Swing Radius

| | | | |
|---------|------|---------|------|
| 1040 mm | 3'5" | 1040 mm | 3'5" |
| 460 mm | 1'6" | 460 mm | 1'6" |

5 Counterweight Clearance

| | | | |
|---------|-------|---------|-------|
| 3270 mm | 10'9" | 3270 mm | 10'9" |
| 4080 mm | 13'5" | 4080 mm | 13'5" |

6 Ground Clearance

| | | | | |
|--------------------|---------|---------|---------|------|
| 2200 mm | 7'3" | 2200 mm | 7'3" | |
| 600 mm (24") Shoes | 2800 mm | 9'2" | 2800 mm | 9'2" |

7 Track Length – Length to Center of Rollers

| | | | |
|---------|-------|---------|-------|
| 2990 mm | 9'10" | 2990 mm | 9'10" |
| — | — | 2990 mm | 9'10" |

8 Track Length – Crawler Overall Length

| | | | |
|-------------|------|---------|-------|
| 1572 mm | 5'2" | 1495 mm | 4'11" |
| Bucket Type | GD | GD | |

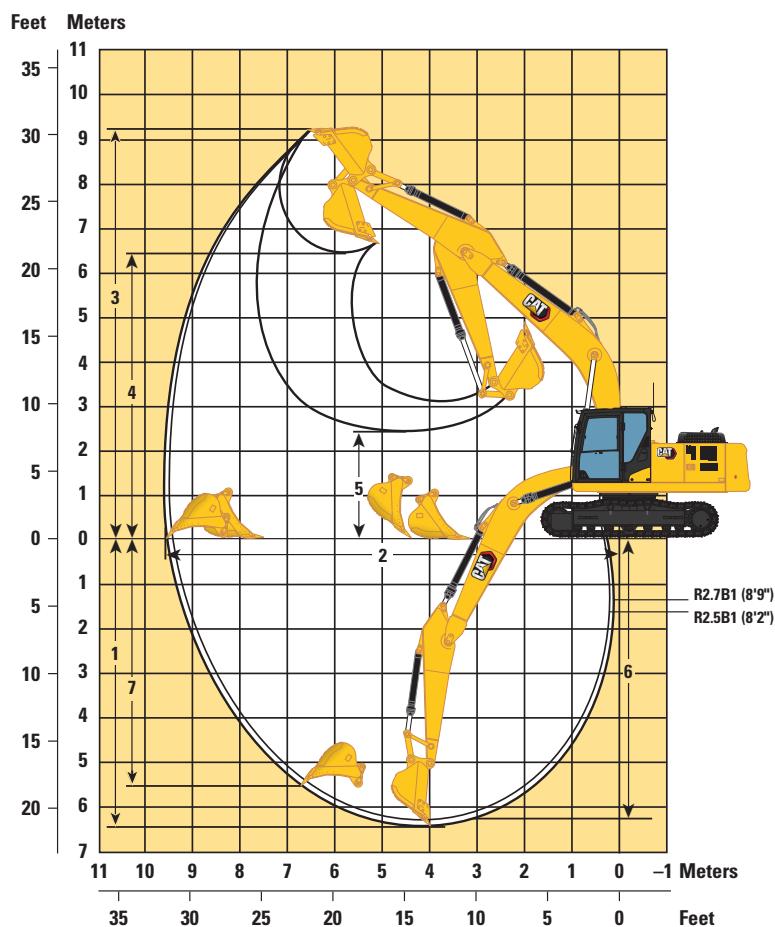
Bucket Capacity

| | | | |
|---------------------|----------------------|---------------------|----------------------|
| 1.00 m ³ | 1.31 yd ³ | 0.93 m ³ | 1.22 yd ³ |
| Bucket Tip Radius | | | |

320 GX Hydraulic Excavator Specifications

Working Ranges and Forces

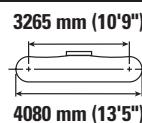
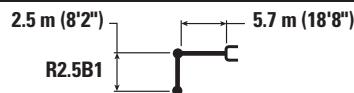
All dimensions are approximate and may vary depending on bucket selection.



| Boom Option | Reach Boom 5.7 m (18'8") | | |
|---|-----------------------------|----------------------|---------------------|
| Stick Options | Reach Stick | | |
| | R2.5B1 (8'2") | R2.7B1 (8'9") | |
| 1 Maximum Digging Depth | 6310 mm | 20'8" | 6430 mm |
| 2 Maximum Reach at Ground Line | 9470 mm | 31'1" | 9580 mm |
| 3 Maximum Cutting Height | 9240 mm | 30'4" | 9290 mm |
| 4 Maximum Loading Height | 6280 mm | 20'7" | 6450 mm |
| 5 Minimum Loading Height | 2580 mm | 8'6" | 2460 mm |
| 6 Maximum Depth Cut for 2440 mm (8 ft) Level Bottom | 6120 mm | 20'1" | 6250 mm |
| 7 Maximum Vertical Wall Digging Depth | 5380 mm | 17'8" | 5510 mm |
| Minimum Working Equipment Radius | 3700 mm | 12'2" | 3680 mm |
| Bucket Digging Force (ISO) | 130 kN | 29,230 lbf | 136 kN |
| Stick Digging Force (ISO) | 110 kN | 24,730 lbf | 106 kN |
| Bucket Type | GD | | |
| Bucket Capacity | 1.00 m ³ | 1.31 yd ³ | 0.93 m ³ |
| Bucket Tip Radius | 1572 mm | 5'2" | 1495 mm |
| | GD | | |
| | 1.22 yd ³ | | |
| | 4'11" | | |

320 GX Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3600 kg (7,940 lb) – without Bucket



| | | 3.0 m/10'0" | | 4.5 m/15'0" | | 6.0 m/20'0" | | 7.5 m/25'0" | | | |
|------------------|----------|--------------------|-------------------|------------------|----------------|------------------|---------------|---------------|---------------|------------------|------------------|
| | | | | | | | | | | | |
| 7.5 m 25'0" | kg lb | | | | | | | | | *4550 *10,100 | *4550 *10,100 |
| 6.0 m 20'0" | kg lb | | | | | *5400 *11,850 | 4400 9,450 | | | *4150 *9,150 | 3550 7,900 |
| 4.5 m 15'0" | kg lb | | | *6800 *14,600 | 6600 14,250 | *5850 *12,700 | 4250 9,200 | 4400 | 3000 | *4050 *8,950 | 2950 6,550 |
| 3.0 m 10'0" | kg lb | | | *8550 *18,350 | 6100 13,200 | 6100 13,050 | 4050 8,750 | 4350 9,300 | 2950 6,300 | 3950 8,700 | 2650 5,850 |
| 1.5 m 5'0" | kg lb | | | 9000 19,400 | 5700 12,300 | 5850 12,600 | 3850 8,300 | 4250 9,100 | 2850 6,100 | 3800 8,400 | 2550 5,600 |
| 0 m 0'0" | kg lb | | | 8800 18,900 | 5500 11,850 | 5700 12,250 | 3750 8,050 | 4150 8,950 | 2800 5,950 | 3900 8,600 | 2600 5,750 |
| -1.5 m -5'0" | kg lb | *10 500 *23,900 | *10 400 22,250 | 8750 18,800 | 5500 11,800 | 5650 12,150 | 3700 7,950 | | | 4300 9,450 | 2850 6,250 |
| -3.0 m -10'0" | kg lb | *13 350 *28,900 | 10 550 22,650 | 8850 19,000 | 5550 11,950 | 5750 12,350 | 3750 8,100 | | | 5200 11,500 | 3450 7,600 |
| -4.5 m -15'0" | kg lb | | | *7250 *15,200 | 5800 12,550 | | | | | *6250 *13,750 | 5050 11,450 |



ISO 10567:2007



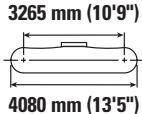
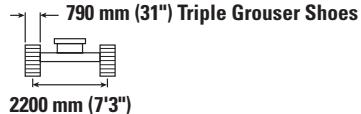
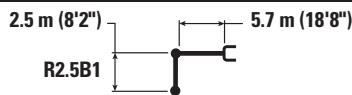
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

320 GX Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3600 kg (7,940 lb) – without Bucket



| | | 3.0 m/10'0" | | 4.5 m/15'0" | | 6.0 m/20'0" | | 7.5 m/25'0" | | | |
|------------------|----------|--------------------|-------------------|------------------|----------------|------------------|---------------|---------------|---------------|------------------|------------------|
| | | | | | | | | | | | |
| 7.5 m 25'0" | kg lb | | | | | | | | | *4550 *10,100 | *4550 *10,100 |
| 6.0 m 20'0" | kg lb | | | | | *5400 *11,850 | 4500 9,700 | | | *4150 *9,150 | 3650 8,150 |
| 4.5 m 15'0" | kg lb | | | *6800 *14,600 | 6800 14,600 | *5850 *12,700 | 4400 9,450 | 4550 | 3100 | *4050 *8,950 | 3050 6,700 |
| 3.0 m 10'0" | kg lb | | | *8550 *18,350 | 6300 13,550 | 6250 13,450 | 4200 9,000 | 4450 9,600 | 3000 6,450 | *4100 *9,000 | 2750 6,050 |
| 1.5 m 5'0" | kg lb | | | 9300 19,950 | 5850 12,650 | 6050 12,950 | 4000 8,550 | 4350 9,400 | 2900 6,300 | 3950 8,650 | 2650 5,800 |
| 0 m 0'0" | kg lb | | | 9050 19,450 | 5650 12,200 | 5900 12,650 | 3850 8,300 | 4300 9,250 | 2850 6,150 | 4050 8,850 | 2700 5,900 |
| -1.5 m -5'0" | kg lb | *10 500 *23,250 | *10 500 22,900 | 9000 1,950 | 5650 12,150 | 5850 12,550 | 3800 8,200 | | | 4400 9,750 | 2950 6,450 |
| -3.0 m -10'0" | kg lb | *13 350 *28,900 | 10 850 23,300 | 9100 19,600 | 5750 12,300 | 5900 12,700 | 3850 8,350 | | | 5350 11,850 | 3550 7,800 |
| -4.5 m -15'0" | kg lb | | | *7250 *15,200 | 5950 12,900 | | | | | *6250 *13,750 | 5200 11,800 |



ISO 10567:2007



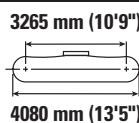
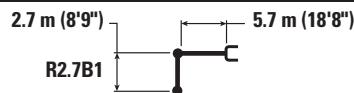
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| | | 3.0 m/10'0" | | 4.5 m/15'0" | | 6.0 m/20'0" | | 7.5 m/25'0" | | | |
|------------------|----------|--------------------|--------------------|------------------|----------------|------------------|---------------|---------------|---------------|------------------|-----------------|
| | | | | | | | | | | | |
| 7.5 m 25'0" | kg lb | | | | | | | | | *4100 *9,150 | *4100 *9,150 |
| 6.0 m 20'0" | kg lb | | | | | *5200 *11,350 | 4450 9,500 | | | *3800 *8,350 | 3400 7,550 |
| 4.5 m 15'0" | kg lb | | | | | *5650 *12,300 | 4300 9,250 | 4450 9,500 | 3000 6,450 | *3700 *8,200 | 2850 6,250 |
| 3.0 m 10'0" | kg lb | | | *8250 *17,800 | 6150 13,300 | 6100 13,100 | 4100 8,800 | 4350 9,300 | 2950 6,300 | *3800 *8,350 | 2550 5,650 |
| 1.5 m 5'0" | kg lb | | | 9050 19,450 | 5750 12,350 | 5850 12,600 | 3850 8,350 | 4250 9,100 | 2850 6,100 | 3700 8,100 | 2450 5,400 |
| 0 m 0'0" | kg lb | *5200 *12,100 | *5200 *12,100 | 8800 18,900 | 5500 11,850 | 5700 12,250 | 3750 8,000 | 4150 8,950 | 2750 5,950 | 3750 8,300 | 2500 5,500 |
| -1.5 m -5'0" | kg lb | *10 250 *23,250 | *10 250 *22,100 | 8750 18,750 | 5450 11,750 | 5650 12,150 | 3650 7,900 | 4150 | 2750 | 4100 9,050 | 2750 6,000 |
| -3.0 m -10'0" | kg lb | *13 750 *29,800 | 10 500 22,500 | 8800 18,950 | 5500 11,900 | 5700 12,250 | 3700 8,000 | | | 4900 10,900 | 3250 7,200 |
| -4.5 m -15'0" | kg lb | *10 650 *22,800 | *10 650 *22,800 | *7700 *16,300 | 5750 12,400 | | | | | *6250 *13,650 | 4600 10,450 |



ISO 10567:2007



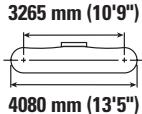
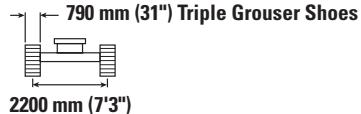
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Reach Boom Lift Capacities – Counterweight: 3600 kg (7,940 lb) – without Bucket



| | | 3.0 m/10'0" | | 4.5 m/15'0" | | 6.0 m/20'0" | | 7.5 m/25'0" | | | |
|------------------|----------|---------------------------|---------------------------|-------------------------|-----------------------|-------------------------|-----------------------|----------------------|----------------------|-------------------------|-----------------------|
| | | | | | | | | | | | |
| 7.5 m 25'0" | kg lb | | | | | | | | | | 5.85 18'10" |
| 6.0 m 20'0" | kg lb | | | | | *5200 *11,350 | 4550 9,750 | | | *3800 *8,350 | 3450 7,750 |
| 4.5 m 15'0" | kg lb | | | | | *5650 *12,300 | 4400 9,450 | 4550 9,750 | 3100 6,650 | *3700 *8,200 | 2900 6,450 |
| 3.0 m 10'0" | kg lb | | | *8250 *17,800 | 6350 13,650 | 6250 13,450 | 4200 9,000 | 4450 9,600 | 3000 6,450 | *3800 *8,350 | 2650 5,800 |
| 1.5 m 5'0" | kg lb | | | | 9300 20,000 | 5900 12,700 | 6050 12,950 | 4000 8,550 | 4350 9,350 | 2900 6,250 | 3800 8,350 |
| 0 m 0'0" | kg lb | *5200 *12,100 | *5200 *12,100 | 9050 19,450 | 5650 12,200 | 5850 12,650 | 3850 8,250 | 4300 9,200 | 2850 6,100 | 3900 8,550 | 2600 5,700 |
| -1.5 m -5'0" | kg lb | *10 250 *23,250 | *10 250 *22,700 | 9000 19,300 | 5600 12,050 | 5800 12,500 | 3800 8,150 | 4250 8,150 | 2850 8,150 | 4250 9,300 | 2800 6,200 |
| -3.0 m -10'0" | kg lb | *13 750 *29,800 | 10 800 23,100 | 9100 19,500 | 5600 12,250 | 5850 12,600 | 3800 8,250 | | | 5050 11,200 | 3350 7,400 |
| -4.5 m -15'0" | kg lb | *10 650 *22,800 | *10 650 *22,800 | *7700 *16,300 | 5800 12,750 | | | | | *6250 *13,650 | 4750 10,700 |
| | | * | | | | | | | | | 5.28 17'0" |



ISO 10567:2007



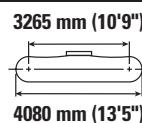
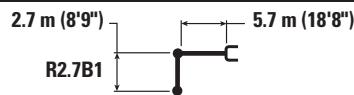
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

320 GX Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3600 kg (7,940 lb) – without Bucket



| | | 3.0 m/10'0" | | 4.5 m/15'0" | | 6.0 m/20'0" | | 7.5 m/25'0" | | | |
|------------------|----------|--------------------|--------------------|------------------|----------------|------------------|---------------|---------------|---------------|------------------|-----------------|
| | | | | | | | | | | | |
| 7.5 m 25'0" | kg lb | | | | | | | | | *4100 *9,150 | *4100 *9,150 |
| 6.0 m 20'0" | kg lb | | | | | *5200 *11,350 | 4550 9,800 | | | *3800 *8,350 | 3500 7,800 |
| 4.5 m 15'0" | kg lb | | | | | *5650 *12,300 | 4450 9,500 | 4550 9,800 | 3100 6,650 | *3700 *8,200 | 2950 6,500 |
| 3.0 m 10'0" | kg lb | | | *8250 *17,800 | 6350 13,700 | 6300 13,500 | 4200 9,050 | 4500 9,600 | 3050 6,500 | *3800 *8,350 | 2650 5,850 |
| 1.5 m 5'0" | kg lb | | | 9350 20,050 | 5900 12,750 | 6050 13,000 | 4000 8,600 | 4350 9,400 | 2950 6,300 | 3800 8,400 | 2550 5,600 |
| 0 m 0'0" | kg lb | *5200 *12,100 | *5200 *12,100 | 9050 19,450 | 5700 12,250 | 5900 12,650 | 3850 8,300 | 4300 9,250 | 2850 6,150 | 3900 8,550 | 2600 5,700 |
| -1.5 m -5'0" | kg lb | *10 250 *23,250 | *10 250 *22,800 | 9000 19,350 | 5650 12,150 | 5800 12,500 | 3800 8,200 | 4300 | 2850 | 4250 9,350 | 2800 6,200 |
| -3.0 m -10'0" | kg lb | *13 750 *29,750 | 10 850 23,200 | 9100 19,500 | 5700 12,300 | 5850 12,650 | 3850 8,300 | | | 5050 11,200 | 3350 7,450 |
| -4.5 m -15'0" | kg lb | *10 650 *22,750 | *10 650 *22,750 | *7700 *16,300 | 5950 12,800 | | | | | *6200 *13,650 | 4750 10,750 |
| | | | | | | | | | | | |



ISO 10567:2007



*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

320 GX Hydraulic Excavator Specifications

Bucket Specifications and Compatibility – Eurasia

| | Linkage | | | | | Counterweight | | 3600 kg (7,940 lb) | |
|---|---------|-------|----|----------|------|---------------|-------|--------------------|-------------|
| | | Width | | Capacity | | Weight | | Fill | Reach Boom |
| Pin-On (No Quick Coupler) | | | | | | | | | |
| General Duty | B | 1050 | 41 | 0.90 | 1.18 | 744 | 1,640 | 100 | ● ● |
| | B | 1050 | 42 | 1.00 | 1.31 | 793 | 1,748 | 100 | ○ ○ |
| Maximum load with pin-on (payload + bucket) | | | | | | | | kg | 2620 2580 |
| | | | | | | | | lb | 5,776 5,688 |

Bucket Specifications and Compatibility – Indonesia, Southeast Asia, Sri Lanka and Taiwan

| | Linkage | | | | | Counterweight | | 3600 kg (7,940 lb) | |
|----------------------------------|---|-------|----|----------|------|---------------|-------|--------------------|------------|
| | | Width | | Capacity | | Weight | | Fill | Reach Boom |
| Pin-On (No Quick Coupler) | | | | | | | | | |
| General Duty | B | 1200 | 47 | 0.93 | 1.22 | 766 | 1,689 | 100 | ● ● |
| | B | 1150 | 46 | 0.90 | 1.18 | 782 | 1,724 | 100 | ● ● |
| | B | 1050 | 41 | 0.90 | 1.18 | 744 | 1,640 | 100 | ● ● |
| | B | 1200 | 42 | 1.00 | 1.31 | 784 | 1,729 | 100 | ○ ○ |
| | B | 1050 | 42 | 1.00 | 1.31 | 793 | 1,748 | 100 | ○ ○ |
| | Maximum load with pin-on (payload + bucket) | | | | | | | kg | 2580 |
| | | | | | | | | lb | 5,688 |

The above loads are in compliance with hydraulic excavator standard EN 474-5:2022/AC:2022, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451:2007.

Bucket weight with General Duty tips.

Maximum Material Density:

● 2100 kg/m³ (3,500 lb/yd³)

○ 1800 kg/m³ (3,000 lb/yd³)

X Not Recommended

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

320 GX Hydraulic Excavator Specifications

Attachments Offering Guide – Eurasia

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

Match

* Working range front only

† Allowed usage on machine less than 50%

No Match

PIN-ON ATTACHMENTS

| Counterweight | 3600 kg (7,940 lb) | |
|------------------------------|--------------------|---------------|
| Boom Type | Reach | |
| Stick Length | R2.5 m (8'2") | R2.7 m (8'9") |
| Hydraulic Hammers | H115 S | ✓ |
| | H120 GC | ✓ |
| | H120 GC Side Mount | ✓ |
| | H120 GC S | ✓ |
| | H120 S | ✓ |
| | H130 GC | ✓†* |
| | H130 GC S | ✓† |
| | H130 S | ✓† |
| Compactors (Vibratory Plate) | CVP110 | ✓ |
| | | ✓ |

CAT PIN GRABBER COUPLER ATTACHMENTS

| Counterweight | 3600 kg (7,940 lb) | |
|-------------------|--------------------|---------------|
| Boom Type | Reach | |
| Stick Length | R2.5 m (8'2") | R2.7 m (8'9") |
| Hydraulic Hammers | H120 GC Side Mount | ✓† |
| | | ✓†* |

CW-40s DEDICATED COUPLER ATTACHMENTS

| Counterweight | 3600 kg (7,940 lb) | |
|------------------------------|--------------------|---------------|
| Boom Type | Reach | |
| Stick Length | R2.5 m (8'2") | R2.7 m (8'9") |
| Hydraulic Hammers | H115 S | ✓ |
| | H120 GC | ✓†* |
| | H120 GC S | ✓† |
| | H120 S | ✓† |
| | H130 S | ✓† |
| Compactors (Vibratory Plate) | CVP110 | ✓ |
| | | ✓ |

CW-40 DEDICATED COUPLER ATTACHMENTS

| Counterweight | 3600 kg (7,940 lb) | |
|------------------------------|--------------------|---------------|
| Boom Type | Reach | |
| Stick Length | R2.5 m (8'2") | R2.7 m (8'9") |
| Hydraulic Hammers | H115 S | ✓ |
| | H120 GC | ✓†* |
| | H120 GC S | ✓† |
| | H120 S | ✓† |
| | H130 S | ✓† |
| Compactors (Vibratory Plate) | CVP110 | ✓ |
| | | ✓ |

320 GX Hydraulic Excavator Specifications

Attachments Offering Guide – Indonesia, Southeast Asia, Sri Lanka

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

Match

† Allowed usage on machine less than 50%

PIN-ON ATTACHMENTS

| Counterweight | 3600 kg (7,940 lb) |
|------------------------------|--------------------|
| Boom Type | Reach |
| Stick Length | R2.7 m (8'9") |
| Hydraulic Hammers | ✓ |
| H115 S | |
| H120 GC | ✓ |
| H120 GC Side Mount | ✓ |
| H120 GC S | ✓ |
| H120 S | ✓ |
| H130 S | ✓† |
| Compactors (Vibratory Plate) | ✓ |
| CVP110 | |

Attachments Offering Guide – Taiwan

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

Match

PIN-ON ATTACHMENTS

| Counterweight | 3600 kg (7,940 lb) |
|--------------------|--------------------|
| Boom Type | Reach |
| Stick Length | R2.7 m (8'9") |
| Hydraulic Hammers | ✓ |
| H120 GC | |
| H120 GC Side Mount | ✓ |
| H120 GC S | ✓ |

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

| | Standard | Optional | Standard | Optional |
|---|------------------|------------------|----------|----------|
| BOOMS, STICKS AND LINKAGES | | | | |
| 5.7 m (18'8") Reach boom | ✓ | | | |
| 2.5 m (8'2") Reach stick | | ✓ ⁽¹⁾ | | |
| 2.7 m (8'9") Reach stick | ✓ ⁽²⁾ | | | |
| Bucket linkage with lifting eye, B1 type | ✓ ⁽³⁾ | | | |
| Bucket linkage without lifting eye, B1 type | ✓ ⁽⁴⁾ | | | |
| CAB | | | | |
| OPG | | ✓ | | |
| Sound suppressed cab with viscous mounts | ✓ | | | |
| High-resolution 203 mm (8") LCD touchscreen monitor | ✓ | | | |
| Mechanical-suspension seat with head rest and arm rest | ✓ | | | |
| 51 mm (2") orange seat belt | ✓ | | | |
| Auto bi-level air conditioner | ✓ | | | |
| Keyless push-to-start engine control | ✓ | | | |
| Fixed left-side console | ✓ | | | |
| 1-button joysticks | ✓ | | | |
| 3-button joysticks | | ✓ | | |
| AM/FM Bluetooth® radio with USB/Auxiliary ports | ✓ | | | |
| Speakers (mounted on roof) | ✓ | | | |
| 24V DC outlet | ✓ | | | |
| Storage compartments | ✓ | | | |
| Cup holder | ✓ | | | |
| 70/30 tempered glass windshield | ✓ | | | |
| Rear window emergency exit | ✓ | | | |
| Radial wiper with washer | ✓ | | | |
| Openable steel hatch | ✓ | | | |
| LED dome light | ✓ | | | |
| Washable floor mat | ✓ | | | |
| CAT TECHNOLOGY | | | | |
| VisionLink™ | | ✓ ⁽⁵⁾ | | |
| Capability to Remote Flash Cat Product Link™ (telematics only) | | ✓ | | |
| ELECTRICAL SYSTEM | | | | |
| Two 950 CCA maintenance-free batteries | | ✓ | | |
| Electrical disconnect switch | | ✓ | | |
| LED chassis and cab lights | | ✓ | | |
| LED right-side boom light | | | | ✓ |
| LED left-side boom light | | | ✓ | |
| ENGINE | | | | |
| Cat® C4.4 single turbo diesel engine | | ✓ | | |
| Two selectable modes: Power, Smart | | ✓ | | |
| Up to 4500 m (14,764 ft) altitude capability with derate from 3000 m (9,842 ft) | | ✓ | | |
| 52° C (125° F) high-ambient cooling capacity | | ✓ | | |
| -25° C (-13° F) cold start capability | | ✓ | | |
| Electric fuel priming pump | | ✓ | | |
| Direct drive fan | | ✓ | | |
| Two-stage fuel filtration system with water separator and indicator | | ✓ | | |
| Sealed double element air filter with pre-cleaner | | ✓ | | |
| HYDRAULIC SYSTEM | | | | |
| Electronic main control valve, hammer ready | | ✓ | | |
| Back-to-back electronic pumps | | ✓ | | |
| High performance hydraulic return filter | | ✓ | | |
| Hammer return filter | | | ✓ | |
| Boom and stick regeneration circuits | | ✓ | | |
| Automatic hydraulic oil warm-up | | ✓ | | |
| Automatic two-speed travel | | ✓ | | |
| Hammer lines | | | | ✓ |

(continued on next page)

⁽¹⁾Eurasia only

⁽²⁾Optional in Eurasia

⁽³⁾All regions except Eurasia

⁽⁴⁾Eurasia only

⁽⁵⁾Provides core telematics data to manage health, maintenance insights, and condition monitoring. Other plans available for more comprehensive data reporting. Consult your Cat dealer for details.

320 GX Standard and Optional Equipment

Standard and Optional Equipment (*continued*)

Standard and optional equipment may vary. Consult your Cat dealer for details.

| | Standard | Optional | Standard | Optional |
|--|----------|----------|--|----------|
| SAFETY AND SECURITY | | | UNDERCARRIAGE AND STRUCTURES | |
| Anti-skid plating with countersunk bolts | ✓ | | 600 mm (24") triple grouser shoes | ✓ |
| Handrail and handhold | ✓ | | 790 mm (31") triple grouser shoes | ✓ |
| Lockable external tool/storage box | ✓ | | 800 mm (31") triple grouser shoes ⁽⁷⁾ | ✓ |
| Ground-level secondary engine shutoff switch | ✓ | | Grease lubricated track link | ✓ |
| Lockable disconnect switch | ✓ | | Center track guiding guard | ✓ |
| Signaling/warning horn | ✓ | | Bottom guards | ✓ |
| Rearview camera | ✓ | | Travel motor guards | ✓ |
| Travel alarm | ✓ | | OPG guard | ✓ |
| Swing alarm | ✓ | | 3600 kg (7,940 lb) counterweight | ✓ |
| SERVICE AND MAINTENANCE | | | Tie-down points | ✓ |
| Grouped engine oil and fuel filters | ✓ | | | |
| S·O·S SM ports | ✓ | | | |
| Radiator screen | ✓ | | | |

⁽⁷⁾SE Asia only

320 GX Dealer Installed Kits and Attachments

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

GUARDS

- 6 mm (0.24") swivel guard
- Mesh guard full front (not compatible with cab light cover, rain protector)
- Mesh guard lower half front
- Operator Protective Guards

SERVICE PARTS

- Hammer floor pedal kit
- Grease gun holder

320 GX Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability>.

Engine

- The Cat® C4.4 engine meets UN ECE R96 Stage IIIA emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to:
 - ✓ 100% biodiesel FAME (fatty acid methyl ester)*
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

*For use of blends higher than 20% biodiesel, consult your Cat dealer.
**Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg (1.9 lb) of refrigerant which has a CO₂ equivalent of 1.216 metric tonnes (1.340 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

Sound Performance

| | |
|--------------------------|-----------|
| ISO 6395:2008 (External) | 102 dB(A) |
|--------------------------|-----------|

| | |
|----------------------------|----------|
| ISO 6396:2008 (Inside Cab) | 70 dB(A) |
|----------------------------|----------|

- External Sound – The spectator sound power level is measured according to the test procedures and conditions specified in ISO 6395:2008 for a Cat machine that is properly equipped and maintained.
- Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Smart mode matches machine power to digging requirements automatically
 - Automatic Engine Control reduces engine speed when the machine is not under load to minimize fuel consumption
 - Enhanced filters and extended service intervals help decrease maintenance costs
 - The latest hydraulic oil filter provides an extended 3,000-hour replacement interval

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

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

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AEXQ3967-01 (12-2025)

Replaces: AEXQ3967-00

Build Number: 05F

(Eurasia, Indonesia, Sri Lanka,
Taiwan, SE Asia)

