928Hz
Wheel Loader

Cat® C6.6 Engine with ACERT™ Technology
Net power (SAE J1249) 111 kW 149 hp
EPA Tier 3, EU Stage III Compliant

Weight
Operating Weight 12 564 kg 27,699 lb

Buckets
Bucket Capacity 2.0-2.3 m³ 2.6-3.0 yd³
The Cat® 928Hz Wheel Loader leads the industry in operator comfort and performance. Size, power, and performance make this machine ideal for a wide range of jobs. Fast cycle times help you move more material. Large spacious cab with joystick control keeps you comfortable throughout the work day, allowing you to get more done. Loader design delivers strength and durability with superior control. Discover how much more you can get done with the new 928Hz.

928Hz Features

High Performance Power Train
Clean, quiet operation with superior power.

Powerful Hydraulic System
System senses work demand and adjusts flow and pressure to match for precise, efficient control.

Loader Linkage
Proven design delivers outstanding bucket loading performance.

Comfortable Cab
Large, spacious cab and low-effort, ergonomic joystick controls let you concentrate on your work.

Buckets
Caterpillar® buckets deliver superior digging, loading and carrying performance.

Contents
Power Train .......................... 3
Hydraulic System ..................... 4
Loader Linkage ......................... 4
Operator Station ....................... 5
Buckets ................................. 6
Serviceability .......................... 7
Customer Support ..................... 7
Specifications ......................... 8
Standard and Optional Equipment... 14
**Power Train**
Delivers maximum rimpull to the ground and full power to loader hydraulics.

**Cat Engine**
The Cat® C6.6 engine provides cleaner, quieter operation while delivering superior performance and durability. The 111 kW (149 hp) rated net power engine meets all worldwide emissions standards and features flatter power curve for outstanding response in the working RPM range (1,900 to 2,300), noise reduction technologies for up to 5 dB reduction, and patented ACERT™ Technology combined with common rail fuel system, smart waste gate turbocharger and crossflow head design for reduced emissions.

**Cat Axles**
Heavy-duty axles feature hardened gears and bearings for durable performance. Rear axle oscillates up to 12 degrees to help assure four-wheel ground contact for optimum traction and stability. Optional front and rear Limited Slip Differentials enable outstanding traction in poor underfoot conditions.

**Cat Transmission**
Rugged Cat transmission uses heavy-duty components for durable and reliable operation. The operator can choose between manual shift and two autoshift modes, Performance or Economy. Performance mode provides maximum acceleration while the economy mode increases fuel economy and improves operator comfort.
Proven Design
Time tested hydraulic system provides low effort operation and superior control. Fast loader cycle times help you get more done.

Dual Hydraulic Pumps System
Load-sensing steering pump provides outstanding response during heavy and light duty operations.
High output implement pump provides all the hydraulic power required to move loads at all engine speeds.

Ride Control System
The optional Ride Control System provides a comfortable ride and excellent material retention.
Nitrogen charged accumulator enables optimum cushioning over uneven terrain for all loads and speeds.
The system operates in Automatic – as the loader ground speed exceeds 5 km/h (3 mph) the system will activate, below 5 km/h (3 mph) the system is off providing maximum lift power.

Loader Linkage
Strong design delivers superior performance.

Z-Bar Design
Z-bar linkage generates excellent breakout force and good rack back angle for better bucket loading and load retention.
Lift arms are solid steel, providing superior strength with an excellent front end viewing area. The proven design offers excellent dump clearance and reach for exceptional truck loading performance.
Experience comfort and convenience in the H-Series cab. The spacious interior and ergonomic controls keep you comfortable throughout the work day. Choose the seat that meets your needs – the standard, fully adjustable seat or the optional Cat Contour seat for added adjustment and air suspension. The two-door design lets you enter and exit from either side of the machine and wide, serrated steps provide stable footing. Both doors lock open 180 degrees and feature sliding glass windows for better communication with workers on the ground. Large flat glass windows provide excellent visibility all around the machine. The rear window features a standard electric defroster.

**Controls**

Low effort, ergonomic joystick controls provide easy operation of lift and tilt functions. The standard joystick features an integrated directional control switch for added convenience. The operator programmable transmission neutralizer can be set in seconds optimizing brake effort for all applications.

**Instrument Panel**

The sealed instrument panel with easy to read white faced gauges and indicators keeps the operator informed of system conditions. The large LED readout provides ground speed and other critical information.

**Optional Rear View Camera**

This work area visual enhancement system uses a closed circuit video monitoring system. Up to three cameras can be mounted on the machine frame. Objects can be viewed on a color LCD monitor in the cab.
The Right Bucket for the Job
Caterpillar offers a variety of buckets to meet your specific job requirements. Careful match of the bucket design and machine operating characteristics provide the best digging, loading and carrying performance.

General Purpose Buckets
Caterpillar general purpose buckets, available in 2.0 m³ (2.6 yd³) and 2.3 m³ (3.0 yd³) capacities with bolt-on cutting edge, are suitable for most general applications. Features include:
• Improved bucket design with longer floor and a larger radius for easier flow of material into the bucket.
• Patented Two-Bolt Corner Guard Cutting Edge System for superior wear resistance, better stability and a simple bolt-on system.
• Built-in, replaceable heel wear plates for extended bucket life.

Sand and Gravel Bucket
This 2.5 m³ (3.5 yd³) heavy duty material handling bucket, built with additional wear plates on the floor and sides, is engineered for ready mix or batch plant applications with plant capacity of 200 tons per hour.

Ground Engaging Tools
Ground engaging tools include hardened steel cutting edges, choice of short or long teeth and a variety of tooth adapters. These tools optimize performance, improve load retention and extend the useful life of Caterpillar buckets.

Versatility
For expanded machine versatility, factory installed quick couplers and other special purpose buckets are also available. Contact your Caterpillar dealer for details.
Serviceability

Easy access and minimal maintenance requirements keep your machine on the job.

Convenient service features make maintenance easy.
All service points are accessible from ground level on the right side of the engine. Gull-wing doors with gas struts lift for exceptional access to filters and service points. Extended service intervals reduce service time and increase machine availability.

- Sight gauges let you easily check radiator coolant, hydraulic oil and transmission oil levels as well as engine air filter restriction without opening the air cleaner.
- Standard pressure taps allow quick diagnosis of the entire hydraulic system.
- SOSSM ports make oil sampling quicker, cleaner and provide the best oil sample for analysis.
- Spin-on filters for engine oil, transmission oil and hydraulic oil are vertically mounted for easier servicing.
- 928Hz features a standard electronic fuel prime pump.
- Sequentially placed radiator and oil coolers are easy to access.
- Swing-out cooling fan allows quick and easy cleaning and servicing of the radiator. The fan is hydraulically driven and separate from the engine compartment for low noise operation.
- Optional reversing fan cleans screens without interrupting machine operation.

Customer Support

Unmatched support makes the difference

Your Cat dealer is ready to assist you with your purchase decision and everything after.

- Make comparisons of machines, with estimates of component life, preventative maintenance and cost of production.
- Financing packages are flexible to meet your needs.
- Your Cat dealer can evaluate the cost to repair, rebuild and replace your machine, so you can make the right choice.
- For more information on Cat products, dealer services and industry solutions, visit us at www.cat.com.
928Hz Wheel Loader Specifications

**Engine**

- Rated net power: 111 kW (149 hp) @ 2,300 rpm
- Model: Cat® C6.6
- SAE J1349: 111 kW (149 hp)
- ISO 9249 (1997): 112 kW (150 hp)
- EEC 80/1269: 112 kW (150 hp)
- Max. net power: 119 kW (160 hp) @ 2,000 rpm
- SAE J1349: 119 kW (160 hp)
- ISO 9249 (1997): 120 kW (161 hp)
- EEC 80/1269: 120 kW (161 hp)
- Bore: 105 mm (4.13 in)
- Stroke: 127 mm (5 in)
- Displacement: 6.6 L (403 in³)
- Net torque: 727 N·m (536 ft-lb)
- Peak torque: 742 N·m (547 ft-lb)
  - Net Power ratings are tested at the reference conditions for the specified standard.
  - Net power shown is the power available at the flywheel when the engine is equipped with alternator, air cleaner, muffler and fan at minimum speed.
  - No derating required up to 3000 m (9,843 ft) altitude. Auto derate protects hydraulic and transmission systems.
  - When the fan is at maximum speed, Rated Net Power is 97 kW (130 hp) and Maximum Net Power is 106 kW (142 hp) at the flywheel per the SAE reference conditions.
  - The Caterpillar® C6.6 engine meets Tier 3 off-highway emission regulations.

**Engine Torque**

<table>
<thead>
<tr>
<th>RPM</th>
<th>Net Torque (N·m)</th>
<th>Net Power (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0 (0)</td>
<td>0 (0)</td>
</tr>
<tr>
<td>1,000</td>
<td>136 (100)</td>
<td>20 (27)</td>
</tr>
<tr>
<td>1,200</td>
<td>152 (54)</td>
<td>27 (54)</td>
</tr>
<tr>
<td>1,400</td>
<td>271 (136)</td>
<td>54 (80)</td>
</tr>
<tr>
<td>1,600</td>
<td>407 (124)</td>
<td>80 (107)</td>
</tr>
<tr>
<td>1,800</td>
<td>542 (161)</td>
<td>100 (137)</td>
</tr>
<tr>
<td>2,000</td>
<td>678 (211)</td>
<td>120 (154)</td>
</tr>
<tr>
<td>2,200</td>
<td>813 (288)</td>
<td>140 (188)</td>
</tr>
<tr>
<td>2,300</td>
<td>949 (334)</td>
<td>149 (190)</td>
</tr>
</tbody>
</table>

**Rated Net Power**

- 928Hz Net Power: 111 kW (149 hp) @ 2,300 rpm
- 928Hz Net Power: 111 kW (149 hp)

**Weights**

- Operating weight: 12,564 kg (27,699 lb)
- Specifications shown are for 928Hz with optional counterweight, standard lubricants, full fuel tank, deluxe cab, Limited Slip rear axle with heavy duty brakes, additional guarding, 2.0 m³ (2.6 yd³) bucket with bolt-on cutting edge, 80 kg (176 lb) operator and 20.5 R25 radial (L-3) XHA tires.

**Steering**

- Steering articulation: 40°
- Minimum turning radius (over tire): 5233 mm (206 in)
- Steering angle: 40°
- Steering cylinders: 70 mm (2.75 in), two, bore 120.6 mm (4.75 in)
- Hydraulic output at 104 L/min: 27 gal/min @ 2,300 engine rpm and 6900 kPa (1,000 psi)
- Maximum working pressure: 25,900 kPa (3,755 psi)
- Hydraulic cycle time: 10.1 Seconds
- Lift cylinders, double acting:
  - Bore: 120.6 mm (4.75 in)
  - Stroke: 685 mm (27 in)
- Tilt cylinder, double acting:
  - Bore: 127 mm (5 in)
  - Stroke: 550 mm (21.7 in)

**Loader Hydraulic System**

- Output at 2,300 engine rpm and 6900 kPa (1,000 psi) with SAE 10W oil at 65° C (150° F)
- Hydraulic cycle time: 10.1 Seconds
- Pump flow – implement pump: 152 L/min (40.2 gal/min)
- Relief pressure – implement pump: 258.9 bar (3,755 psi)
- Maximum working pressure: 25,900 kPa (3,755 psi)
- Hydraulic cycle time: 10.1 Seconds
- Raise: 6.1 Seconds
- Dump: 1.2 Seconds
- Lower, empty, float down: 2.8 Seconds
- Total: 10.1 Seconds
- Lift cylinders, double acting:
  - Bore: 120.6 mm (4.75 in)
  - Stroke: 685 mm (27 in)
- Tilt cylinder, double acting:
  - Bore: 127 mm (5 in)
  - Stroke: 550 mm (21.7 in)

**Service Refill Capacities**

- Fuel tank: 225 L (59.4 gal)
- Cooling system: 42 L (11.1 gal)
- Crankcase: 15 L (4.0 gal)
- Transmission: 34.5 L (9.1 gal)
- Differentials and final drives:
  - Front: 26 L (6.9 gal)
  - Rear: 25 L (6.6 gal)
- Hydraulic system (including tank): 125 L (33 gal)
- Hydraulic tank: 70 L (18.5 gal)
Transmission

<table>
<thead>
<tr>
<th></th>
<th>Forward</th>
<th>Reverse</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7.9 km/h</td>
<td>7.9 km/h</td>
</tr>
<tr>
<td>2</td>
<td>12.6 km/h</td>
<td>12.6 km/h</td>
</tr>
<tr>
<td>3</td>
<td>25.8 km/h</td>
<td>25.8 km/h</td>
</tr>
<tr>
<td>4</td>
<td>37.7 km/h</td>
<td>37.7 km/h</td>
</tr>
</tbody>
</table>

Tires

<table>
<thead>
<tr>
<th>Size</th>
<th>Tread width</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.5 R25 L3 XHA</td>
<td>2570 mm</td>
</tr>
</tbody>
</table>

Cab

- FOPS: SAE J/ISO 3449 APR98 Level II

- Caterpillar cab and Rollover Protective Structure (ROPS) are standard in North America and Europe.
- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed as per work cycle procedures specified in ANSI/SAE J1166 May 90, results in operator sound exposure Leq (equivalent sound pressure level) of 74 dB(A).

Operating Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static tipping load (full turn)</td>
<td>8658 kg 19,089 lb</td>
</tr>
<tr>
<td>Reach – full lift/45 degree dump angle</td>
<td>927 mm 3 ft 0 in</td>
</tr>
<tr>
<td>Dump clearance – full lift/45 degree dump angle</td>
<td>2879 mm 9 ft 6 in</td>
</tr>
<tr>
<td>Articulation angle</td>
<td>40° 40°</td>
</tr>
</tbody>
</table>
928Hz Wheel Loader Specifications

**Dimensions**

All dimensions are approximate. Dimensions may vary with bucket. Refer to Operating Specifications.

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1. Height to top of ROPS/FOPS: 3269 mm (10 ft 9 in)
2. Height to top of exhaust stack: 3189 mm (10 ft 6 in)
3. Height to top of hood: 2197 mm (7 ft 2 in)
4. Height to center of axle: 685 mm (2 ft 3 in)
5. Ground clearance: 408 mm (1 ft 4 in)
6. Overall length: 7252 mm (23 ft 10 in)
7. Length – rear axle to bumper: 1920 mm (6 ft 4 in)
8. Center line of front axle to hitch: 1450 mm (4 ft 9 in)
9. Wheel base length: 2900 mm (9 ft 6 in)
10. Dump clearance at maximum lift and 45° dump: 2879 mm (9 ft 5 in)
11. Bucket clearance at maximum lift and level: 3752 mm (12 ft 4 in)
12. Bucket pin height at maximum lift: 3872 mm (12 ft 8 in)
13. Overall height – bucket raised: 4971 mm (16 ft 4 in)
14. Reach at maximum lift and 45° dump: 927 mm (3 ft 0 in)
15. Rack back angle at maximum lift: 60°
16. Dump angle at maximum lift: 45°
17. Rack back angle at ground: 44°
18. Rack back angle at carry: 47.8°
19. Carry height: 449 mm (1 ft 6 in)
20. Digging depth: 86 mm (3 in)

Dimensions listed are for 928Hz with 2.0 m³ (2.6 yd³) pin-on bucket with bolt-on cutting edge, cab with A/C, optional counterweights, limited slip axles, heavy duty rear brakes, additional guarding, sound suppression, work tool, 80 kg (176 lb) operator and Michelin 20.5R25 L3 XHA tires.

---

<table>
<thead>
<tr>
<th>20.5 R25 (L-3) Tires</th>
<th>17.5-25 12PR (L-2) Tires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width at tread center: 1950 mm (6 ft 5 in)</td>
<td>1950 mm (6 ft 5 in)</td>
</tr>
<tr>
<td>Overall width over tires: 2570 mm (8 ft 5 in)</td>
<td>2407 mm (7 ft 11 in)</td>
</tr>
<tr>
<td>Minimum turning radius over tires: 5275 mm (17 ft 4 in)</td>
<td>5186 mm (17 ft 0 in)</td>
</tr>
<tr>
<td>Minimum turning radius over bucket at ground level: 5794 mm (19 ft 0 in)</td>
<td>5795 mm (19 ft 0 in)</td>
</tr>
</tbody>
</table>

Steering angle – left/right: 40°

Change in vertical dimension: no change

---

10
## Operating Specifications

<table>
<thead>
<tr>
<th></th>
<th>With Bolt-On Cutting Edge</th>
<th>With Bolt-On Teeth &amp; Segments*</th>
<th>With Bolt-On Teeth*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rated bucket capacity (§)</strong></td>
<td>m³</td>
<td>2.0</td>
<td>2.3</td>
</tr>
<tr>
<td></td>
<td>yd³</td>
<td>2.6</td>
<td>3.0</td>
</tr>
<tr>
<td><strong>Struck capacity (§)</strong></td>
<td>m³</td>
<td>1.7</td>
<td>1.9</td>
</tr>
<tr>
<td></td>
<td>yd³</td>
<td>2.2</td>
<td>2.5</td>
</tr>
<tr>
<td><strong>Bucket width</strong></td>
<td>mm</td>
<td>2549</td>
<td>2549</td>
</tr>
<tr>
<td></td>
<td>ft/in</td>
<td>8'4&quot;</td>
<td>8'4&quot;</td>
</tr>
<tr>
<td><strong>Dump clearance at full lift and 45° discharge (§)</strong></td>
<td>mm</td>
<td>2879</td>
<td>2842</td>
</tr>
<tr>
<td></td>
<td>ft/in</td>
<td>9'5&quot;</td>
<td>9'4&quot;</td>
</tr>
<tr>
<td><strong>Reach at full lift and 45° discharge (§)</strong></td>
<td>mm</td>
<td>927</td>
<td>964</td>
</tr>
<tr>
<td></td>
<td>ft/in</td>
<td>30&quot;</td>
<td>32&quot;</td>
</tr>
<tr>
<td><strong>Reach at 45° discharge and 2130 mm (70&quot;) clearance (§)</strong></td>
<td>mm</td>
<td>1455</td>
<td>1474</td>
</tr>
<tr>
<td></td>
<td>ft/in</td>
<td>4'9&quot;</td>
<td>4'10&quot;</td>
</tr>
<tr>
<td><strong>Reach with lift arms horizontal and bucket level</strong></td>
<td>mm</td>
<td>2253</td>
<td>2305</td>
</tr>
<tr>
<td></td>
<td>ft/in</td>
<td>7'5&quot;</td>
<td>7'7&quot;</td>
</tr>
<tr>
<td><strong>Digging depth (§)</strong></td>
<td>mm</td>
<td>86</td>
<td>86</td>
</tr>
<tr>
<td></td>
<td>in</td>
<td>3.4&quot;</td>
<td>3.4&quot;</td>
</tr>
<tr>
<td><strong>Overall length</strong></td>
<td>mm</td>
<td>7252</td>
<td>7304</td>
</tr>
<tr>
<td></td>
<td>ft/in</td>
<td>23'10&quot;</td>
<td>24'0&quot;</td>
</tr>
<tr>
<td><strong>Overall height with bucket at full raise (§)</strong></td>
<td>mm</td>
<td>4971</td>
<td>5070</td>
</tr>
<tr>
<td></td>
<td>ft/in</td>
<td>16'4&quot;</td>
<td>16'8&quot;</td>
</tr>
<tr>
<td><strong>Loader clearance radius with bucket in carry position (§)</strong></td>
<td>mm</td>
<td>5781</td>
<td>5796</td>
</tr>
<tr>
<td></td>
<td>ft/in</td>
<td>19'0&quot;</td>
<td>19'0&quot;</td>
</tr>
<tr>
<td><strong>Static tipping load straight (§)</strong></td>
<td>kg</td>
<td>9983</td>
<td>9911</td>
</tr>
<tr>
<td></td>
<td>lb</td>
<td>22,008</td>
<td>21,850</td>
</tr>
<tr>
<td><strong>Static tipping load full 40° turn (§)</strong></td>
<td>kg</td>
<td>8654</td>
<td>8585</td>
</tr>
<tr>
<td></td>
<td>lb</td>
<td>19,079</td>
<td>18,928</td>
</tr>
<tr>
<td><strong>Breakout force (§)</strong></td>
<td>kg</td>
<td>11,723</td>
<td>11,095</td>
</tr>
<tr>
<td></td>
<td>lb</td>
<td>25,444</td>
<td>24,460</td>
</tr>
<tr>
<td><strong>Operating weight</strong></td>
<td>kg</td>
<td>12,564</td>
<td>12,618</td>
</tr>
<tr>
<td></td>
<td>lb</td>
<td>27,699</td>
<td>27,818</td>
</tr>
</tbody>
</table>

Specifications shown are for 928Hz with cab with A/C, optional counterweight, limited slip axles, heavy duty rear brakes, additional guarding, sound suppression, work tool, 80 kg (176 lb) operator and Michelin 20.5 R25 L3 XHA tires.

* Dimensions are measured to the tip of the bucket teeth to provide accurate clearance data. SAE standards specifies the cutting edge.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers (SAE), including SAE-Standards J732 JUN92 and J742 FEB85 governing ratings.

Other Ground Engaging Tools available, consult your Cat dealer.
## Typical Material Densities – Loose

<table>
<thead>
<tr>
<th>Material</th>
<th>kg/m³</th>
<th>lb/yd³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basalt</td>
<td>1960</td>
<td>3,305</td>
</tr>
<tr>
<td>Bauxite, Kaolin</td>
<td>1420</td>
<td>2,394</td>
</tr>
</tbody>
</table>

### Clay
- natural bed: 1600 kg/m³, 2.799 lb/yd³
- dry: 1480 kg/m³, 2.495 lb/yd³
- wet: 1600 kg/m³, 2.799 lb/yd³

### Clay and gravel
- dry: 1420 kg/m³, 2.394 lb/yd³
- wet: 1540 kg/m³, 2.596 lb/yd³

### Decomposed rock
- 75% rock, 25% earth: 1960 kg/m³, 3,305 lb/yd³
- 50% rock, 50% earth: 1720 kg/m³, 2,900 lb/yd³
- 25% rock, 75% earth: 1570 kg/m³, 2,647 lb/yd³

### Earth
- dry, packed: 1510 kg/m³, 2,546 lb/yd³
- wet, excavated: 1600 kg/m³, 2,698 lb/yd³

### Granite
- broken: 1660 kg/m³, 2,799 lb/yd³

### Gravel
- pitrun: 1930 kg/m³, 3,254 lb/yd³
- dry: 1510 kg/m³, 2,546 lb/yd³
- dry, 6-50 mm (0.2-2") wet: 1690 kg/m³, 2,849 lb/yd³
- wet, 6-50 mm (0.2-2") wet: 2020 kg/m³, 3,406 lb/yd³

### Bucket Selection – Pin-on Buckets

<table>
<thead>
<tr>
<th>Bucket Capacity</th>
<th>1500</th>
<th>1700</th>
<th>1900</th>
<th>2100</th>
<th>2300</th>
<th>2500 kg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>m³</td>
<td>2.0</td>
<td>2.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>yd³</td>
<td>2.3</td>
<td>3.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material Density</th>
<th>3,000</th>
<th>3,500</th>
<th>4,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>115%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>95%</td>
<td></td>
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</table>

% = Bucket Fill Factor
## Supplemental Specifications

<table>
<thead>
<tr>
<th></th>
<th>Change in Operating Weight</th>
<th>Change in Articulated Static Tipping Load with Pin-On Bucket 2.0 m³ (2.6 yd³)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td>Canopy, ROPS (less cab)</td>
<td>–198</td>
<td>–436</td>
</tr>
<tr>
<td>No optional counterweights</td>
<td>–470</td>
<td>–1,034</td>
</tr>
<tr>
<td>Substitute 296 kg (653 lb) optional counterweight</td>
<td>–174</td>
<td>–383</td>
</tr>
<tr>
<td>Without ride control system</td>
<td>–41</td>
<td>–90</td>
</tr>
<tr>
<td>Without secondary steering</td>
<td>–42</td>
<td>–92</td>
</tr>
<tr>
<td>Tires, 1-piece rims</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.5-25, 12PR (L-2)</td>
<td>–661</td>
<td>–1,454</td>
</tr>
<tr>
<td>17.5-25, 12PR (L-3)</td>
<td>–582</td>
<td>–1,280</td>
</tr>
<tr>
<td>17.5-25, radial (L-2/L-3)</td>
<td>–519</td>
<td>–1,142</td>
</tr>
<tr>
<td>17.5-25, radial (L-2)</td>
<td>–614</td>
<td>–1,351</td>
</tr>
<tr>
<td>17.5-25, radial (L-3)</td>
<td>–458</td>
<td>–1,008</td>
</tr>
<tr>
<td>Tires, 3-piece rims</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.5-25, 12PR (L-2)</td>
<td>–529</td>
<td>–1,164</td>
</tr>
<tr>
<td>17.5-25, 12PR (L-3)</td>
<td>–457</td>
<td>–1,005</td>
</tr>
<tr>
<td>17.5-25, radial (L-2/L-3)</td>
<td>–413</td>
<td>–909</td>
</tr>
<tr>
<td>17.5-R25, radial (L-2)</td>
<td>–489</td>
<td>–1,076</td>
</tr>
<tr>
<td>17.5-R25, radial (L-3)</td>
<td>–389</td>
<td>–856</td>
</tr>
<tr>
<td>20.5-25, 12PR (L-2)</td>
<td>–240</td>
<td>–528</td>
</tr>
<tr>
<td>20.5-25, 12PR (L-3)</td>
<td>–96</td>
<td>–211</td>
</tr>
<tr>
<td>20.5-25, radial (L-2/L-3)</td>
<td>–52</td>
<td>–114</td>
</tr>
<tr>
<td>20.5 R25, radial (L-2)</td>
<td>–172</td>
<td>–378</td>
</tr>
<tr>
<td>20.5 R25, radial (L-3)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>600/65 R25, radial (L-3) Michelin</td>
<td>+4</td>
<td>+9</td>
</tr>
</tbody>
</table>
Standard equipment may vary. Consult your Caterpillar dealer for details.

**ELECTRICAL**
- Alternator, 95-amp brushless
- Alarm, back-up
- Batteries, maintenance-free, 950 CCA, (2)
- Directional signals (front & rear)
- Starting and charging system, 24V
- Halogen work lights (front & rear)
- Ignition key start/stop switch
- Roading lights
- Starting aid, thermal
- Switch, battery disconnect

**OPERATOR ENVIRONMENT**
Standard two door cab includes all of the following items:
- Air conditioner, heater/defroster
- Sliding glass door windows
- Radio ready
- 12 volt electrical accessory outlet
- Sealed Instrument Gauge:
  - Engine RPM
  - Hydraulic oil temperature
  - Engine coolant temperature
  - Torque converter oil temperature
  - Fuel level
  - Digital LED speedometer, hour meter/odometer
- Indicator Lights:
  - Turn signal
  - Primary steering malfunction
  - Hydraulic oil bypass
  - Parking brake applied
  - Brake charge pressure low
  - Transmission oil temperature
  - General warning
  - Electrical system voltage low
  - Fuel water separator
  - Engine oil temperature
  - Bright lights activated
- Adjustable tilt steering column
- Coat hook
- Ground level door release
- Horn, steering wheel mounted (electric)
- Hydraulic control lever lockout
- Interior light
- Lighter
- Lunch box storage with cup holder
- Pilot hydraulic implement controls
- Rear window defroster, electric
- Rear view mirrors (2 inside)
- Seat, adjustable suspension, armrest (fabric or vinyl)
- Seat belt, 75 mm (3 in), retractable
- Tinted safety glass, front
- Tool box
- Wet arm wiper/washer (front & rear), front intermittent

**POWER TRAIN**
- Engine, Cat C6.6 ACERT
  - Low emission diesel engine
  - Noise reduction technology
  - Smart waste gate turbocharged
  - Aftercooled
  - Closed Circuit Breather
  - Electronically controlled
  - Air cleaner, dry type
  - Axle seal guards, integrated
  - Brakes, enclosed wet-disc full hydraulic
  - Differentials, conventional (front/rear)
  - Driveshaft, lubed for life
  - Electric fuel prime pump
  - Engine speed control
  - Fuel/water separator
  - Muffler
- Radiator, unit serviceable
- S•O•S oil sampling port, engine oil
- S•O•S oil sampling port, transmission oil
- Torque converter
- Transmission, 4F/3R, autoshift, single lever control with F/N/R and kickdown button
- Transmission neutralizer; operator programmable

**HYDRAULICS**
- Hydraulic diagnostic connectors
- Heavy duty hydraulic oil cooler
- Hydraulic control, 2-valve, 1-lever with F/N/R
- Hydraulics, third function
- Load-sensing steering system
- S•O•S oil sampling port, hydraulic oil

**OTHER STANDARD EQUIPMENT**
- Antifreeze/coolant, extended-life protects to –36° C (–33° F)
- Automatic bucket positioner/fork positioner
- Brakes, secondary and parking
- Counterweight
- Engine enclosure, lockable
- Fenders, front
- Hitch, recovery
- Loader linkage, z-bar
- Lift kickout, automatic
- Machine Security System ready
- Product Link ready
- Remote grease lines
- Steering stops, cushioned
- Swing-out, hydraulically driven demand fan
- Vandalism protection, lockable service points
- Visual indicators:
  - air cleaner service
  - coolant level
  - hydraulic oil
  - transmission oil

928Hz Standard Equipment
Optional equipment may vary. Consult your Caterpillar dealer for details.

Antifreeze/coolant, extended-life, protects to –50° C (–58° F)
Axles:
• Front Limited Slip Differential
• Rear Limited Slip Differential
• Rear Limited Slip Differential, with heavy duty brakes (axle oil cooler included)
Beacon light, rotating or strobe, magnetic-mount
Buckets/ground engaging tools
Canopy, ROPS
Counterweight, additional, optional
Coupler controls and lines
Deluxe Cab arrangement includes:
• External heated mirrors
• Sunscreen
• Sun shade
• Flood lights, auxiliary, cab mounted
Fan, reversing
Fenders, roading, rear
Fenders, steel
Guards:
• Crankcase
• Driveshaft, front
• Power train
• Lights
• Windshield
• Radiator
Hydraulic control auxiliary, third valve
Load check valves (dealer installed)
Machine Security System
Material handling arm
Pallet forks, carriage
Product Link
Quick Coupler
Radiator, wide fin spacing, 5.5 fpi

Radio packages:
• Radio, AM/FM
• Radio, AM/FM with CD player
Rear-view camera system
Ride Control System
Seats:
• Cat Contour Seat, fabric, with adjustable backrest and lumbar support
• Cat Contour Seat, fabric, electrically adjustable with air suspension
Sound suppression package, available in select markets
Starting aid, engine coolant heater, 120V
Steering, secondary
Tires:
• Bias ply, 17.5-25 and 20.5-25
• Radial, 17.5-R25, 20.5-R25 and 600/65 R25
928Hz Wheel Loader