



Technical Specifications

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

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824K Wheel Dozer Specifications

Engine

| Ligino | | |
|---|-----------|-----------------------|
| Engine Model | Cat C15 | |
| Rated Speed | 1,800 rpm | |
| Net Power (SAE J1349:2011) | 302 kW | 405 hp |
| Net Power (ISO 9249:2007) | 302 kW | 405 hp |
| Engine Power (ISO 14396:2002) | 318 kW | 426 hp |
| Gross Power (SAE J1995:2014) | | |
| Direct Drive | 307 kW | 412 hp |
| Converter Drive | 324 kW | 434 hp |
| Maximum Net Torque (1,300 rpm) | 2005 N·m | 1,479 lbf-ft |
| Maximum Net Torque Rise – Direct Drive | 33% | |
| Maximum Net Torque Rise – Converter Drive | 8.5% | |
| Maximum Altitude without Derating (Tier 4 Final/Stage V) | 2834 m | 9,298 ft |
| Maximum Altitude without Derating (Tier 3/Stage IIIA equivalent) | 2773 m | 9,098 ft |
| Bore | 137.2 mm | 5.4 in |
| Stroke | 171.4 mm | 6.7 in |
| Displacement | 15.2 L | 927.6 in ³ |
| High Idle Speed | 2,300 rpm | |
| Low Idle Speed | 800 rpm | |

• Net power advertised is the power available at the engine flywheel when the engine is equipped with a fan, air cleaner, clean emissions module and alternator.

• Two engine emission configurations are available. One meets U.S. EPA Tier 4 Final and EU Stage V emission standards. The other meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA emissions.

Operating Specifications

| Operating Weight – Straight Blade | 34 004 kg | 74,966 lb |
|-----------------------------------|-------------------------|--------------------------|
| (Tier 4 Final/Stage V) | C | |
| Operating Weight – Chip Scoop | 38 141 kg | 84,086 lb |
| Operating Weight – Coal Scoop | 36 752 kg | 81,024 lb |
| Blade Capacity Range | 5.1-16.2 m ³ | 6.6-21.2 yd ³ |

Transmission

| Cat planetary powershift – ECPC | |
|------------------------------------|---|
| 6.2 km/h | 3.9 mph |
| 11.1 km/h | 6.9 mph |
| 19.6 km/h | 12.2 mph |
| 34.8 km/h | 21.6 mph |
| 7.1 km/h | 4.4 mph |
| 12.6 km/h | 7.8 mph |
| 22.4 km/h | 13.9 mph |
| 39.7 km/h | 24.7 mph |
| | - ECPC 6.2 km/h 11.1 km/h 19.6 km/h 34.8 km/h 7.1 km/h 12.6 km/h 22.4 km/h |

Hydraulic System – Lift/Tilt

| Pump Flow at 1,800 rpm | 117 L/min | 30.9 gal/min |
|---|---------------------|---------------------|
| Main Relief Pressure | 26 000 kPa | 3,771 psi |
| Maximum Supply Pressure | 26 000 kPa | 3,771 psi |
| Cylinder, Double-acting: Lift, Bore and Stroke | 120 mm × 1070 mm | 4.7 in × 42.1 in |
| Cylinder, Double-acting: Tilt and Tip, Bore and Stroke | 140 mm × 230 mm | 5.5 in × 9.1 in |

Hydraulic System – Steering

| Steering System – Circuit | Pilot operated, load sensing | |
|---------------------------------|------------------------------|--------------|
| Bore | 114.3 mm | 4.5 in |
| Stroke | 576 mm | 22.7 in |
| Steering System – Pump | Variable displacement piston | |
| Max Flow at 1,800 rpm | 85 L/min | 22.5 gal/min |
| Relief Valve Setting - Steering | 24 000 kPa | 3,481 psi |
| Vehicle Articulation Angle | 86 degrees | |

824K Wheel Dozer Specifications

| Service Refill Capacities | | |
|---|---------|-----------|
| Cooling System | 116 L | 30.6 gal |
| Engine Crankcase | 34 L | 9.0 gal |
| Transmission | 66 L | 17.4 gal |
| Fuel Tank | 782 L | 206.6 gal |
| Diesel Exhaust Fluid Tank (Tier 4 Final/Stage V) | 32 L | 8.5 gal |
| Differentials and Final Drives – Front | 100 L | 26.4 gal |
| Differentials and Final Drives – Rear | 110 L | 29.1 gal |
| Hydraulic Tank Only | 134 L | 35.4 gal |
| Hydraulic System - implement/steering | ; 214 L | 56.5 gal |
| AC Refrigerant | 20 hg | |
| AC Oil | 146 mL | 4.94 oz |

• All nonroad Tier 4 Final, EU Stage V, and Japan 2014 (Tier 4 Final) diesel engines are required to use:

- Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm (mg/kg) sulfur or less.
- Cat engines are compatible with the following renewable, alternative, and biodiesel* fuels that reduce greenhouse gases:
 Up to P20 biodiesel (FAME)**
- Up to B20 biodiesel (FAME)**
- Up to 100% HVO and GTL renewable fuels
- Cat DEO-ULS[™] or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specifications are required.
- Diesel Exhaust Fluid (DEF) that meets all requirements defined in ISO 22241-1.
- * Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.
- ** Engines with aftertreatment devices can use up to B20. Engines with no aftertreatment devices can use higher blends, up to B100.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.0 kg of refrigerant which has a CO_2 equivalent of 2.86 metric tonnes.

| Axles | |
|-------------------|---|
| Front | Planetary – fixed |
| Rear | Planetary – oscillating |
| Oscillation Angle | ±11° |
| Brakes | |
| Parking Brake | Drum and shoe, spring applied, hydraulic released |
| Brakes | Multi-Disc Wet (enclosed) 4 WHL |

Sound Performance

| | Standard | Suppression |
|--------------------------------------|-----------|-------------|
| Operator Sound Level (ISO 6396:2008) | 73 dB(A) | 72 dB(A) |
| Machine Sound Level (ISO 6395:2008) | 113 dB(A) | 110 dB(A) |

• The operator sound pressure level was measured according to the test procedures and conditions specified in ISO 6396:2008. The measurement was conducted at 70% of maximum engine cooling fan speed.

• Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.

• The machine sound power level was measured according to the test procedures and conditions specified in ISO 6395:2008. The measurement was conducted at 70% of maximum engine cooling fan speed.

824K Wheel Dozer Specifications

Dimensions

All dimensions are approximate.



| 1 Height to Top of Beacon | 4369 mm | 14 ft 4 in |
|--|----------|--------------|
| 2 Height to Top of Exhaust Stack | 4332 mm | 14 ft 2.6 in |
| 3 Height to Top of Hood | 3204 mm | 10 ft 6.1 in |
| 4 Ground Clearance to Bumper | 852 mm | 2 ft 9.5 in |
| 5 Center Line of Rear Axle to Edge of Bumper | 2830 mm | 9 ft 3.4 in |
| 6 Center Line of Front Axle to Hitch | 1850 mm | 6 ft 0.8 in |
| 7 Wheelbase | 3700 mm | 12 ft 2 in |
| 8 Length with Blade on Ground (straight blade) | 8422 mm | 27 ft 7.6 in |
| 9 Ground Clearance | 441.4 mm | 1 ft 5.4 in |
| 10 Height to Top of Cab | 4100 mm | 13 ft 5.4 in |
| 11 Width Over Wheels | 3365 mm | 11 ft 0.5 in |
| | | |

Blade Specifications

| Blade Type | Capacity | Width Over End Bits | Height | Dig Depth | Ground Clearance | Maximum Tilt | Turning Radius – Outside Corner of Blade | Turning Radius – Inside Corner of Blade |
|---------------------|-------------------------|------------------------|-----------|-----------|---------------------|-----------------|--|---|
| Straight | 5.0 m ³ | 4507 mm | 1230 mm | 448 mm | 1057 mm | 1167 mm | 6002 mm | 1892 mm |
| | (6.6 yd ³) | (177.4 in) | (48.4 in) | (17.6 in) | (41.6 in) | (45.9 in) | (19 ft 8.3 in) | (6 ft 2.5 in) |
| Straight Push Plate | 5.0 m ³ | 4507 mm | 1230 mm | 448 mm | 1057 mm | 1167 mm | 6002 mm | 1892 mm |
| | (6.6 yd ³) | (177.4 in) | (48.4 in) | (17.6 in) | (41.6 in) | (45.9 in) | (19 ft 8.3 in) | (6 ft 2.5 in) |
| Semi-Universal | 7.7 m ³ | 4421 mm | 1551 mm | 477 mm | 1068 mm | 1120 mm | 6051 mm | 1777 mm |
| | (10.0 yd ³) | (174.1 in) | (61.1 in) | (18.8 in) | (42.0 in) | (44.1 in) | (19 ft 10.2 in) | (5 ft 10 in) |
| Universal | 7.7 m ³ | 4352 mm | 1350 mm | 461 mm | 1051 mm | 1132 mm | 6104 mm | 1828 mm |
| | (10.0 yd ³) | (171.3 in) | (53.1 in) | (18.1 in) | (41.4 in) | (44.6 in) | (20 ft 0.3 in) | (6 ft 0 in) |
| Coal | 16.2 m ³ | 4798 mm | 1745 mm | 472 mm | 1072 mm | 1242 mm | 6408 mm | 1819 mm |
| | (21.2 yd ³) | (189.0 in) | (68.7 in) | (18.6 in) | (42.2 in) | (48.9 in) | (21 ft 0.3 in) | (15 ft 11.6 in) |
| Extended Wear | 8.1 m ³ | 4357 mm | 1350 mm | 461 mm | 1051 mm | 1132 mm | 6104 mm | 1638 mm |
| | (10.6 yd ³) | (171.6 in) | (53.1 in) | (18.1 in) | (41.4 in) | (44.6 in) | (20 ft 0.3 in) | (5 ft 5 in) |

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

| | Standard | Optional |
|---|--------------|--------------|
| ELECTRICAL | | |
| Alternator, 150 amp | \checkmark | |
| Batteries, maintenance free (4 – 1,000 CCA) | \checkmark | |
| Electrical system, 24V | \checkmark | |
| Lighting system, halogen (front and rear) | \checkmark | |
| Lighting system, LED | | \checkmark |
| Lights, directional (rear) | \checkmark | |
| Starter, electric (heavy duty) | \checkmark | |
| OPERATOR ENVIRONMENT | | |
| Air conditioner | \checkmark | |
| Cab, sound-suppressed and pressurized | \checkmark | |
| Cab door, sliding window (LH) | \checkmark | |
| Cab precleaner, powered | \checkmark | |
| Coat and hard hat hooks | \checkmark | |
| Electro-hydraulic tilt and tip controls | \checkmark | |
| Fingertip shifting controls | \checkmark | |
| Flip-up armrest | ✓ | |
| Heater and defroster | √ | |
| Horn, electric | ✓ | |
| Implement hydraulic lockout | ✓ | |
| Instrumentation, gauges: DEF fluid level (Tier 4 Final/Stage V), engine coolant temperature, fuel level, hydraulic oil temperature, speedometer/tachometer, torque converter temperature | ✓ | |
| Instrumentation, warning indicators: action alert system – three categories, brake oil pressure, electrical system – low voltage, engine failure malfunction alert and action lamp, parking brake status | ✓ | |
| Light, cab, dome | ✓ | |
| Lunchbox and beverage holders | ✓ | |
| Power port (12V) for mobile phone or laptop connection | √ | |
| $Radio, AM/FM/AUX/USB/Bluetooth {\ensuremath{\mathbb R}}$ | | \checkmark |
| Radio, CB ready | \checkmark | |
| Radio ready for entertainment: antenna, speakers, converter (12V, 10-15 amp) | ~ | |
| Rubber mounted, laminated, tinted glass | ✓ | |
| Seat, premium plus containing forced air heating and cooling, two-way thigh adjustment, power lumbar and back bolster adjustment, ride stiffness adjustment, dynamic end dampening, and leather finish | ✓ | |

| | Standard | Optional |
|--|--------------|--------------|
| OPERATOR ENVIRONMENT (CONTINUED) | | |
| Sun visor, front | \checkmark | |
| Transmission gear (indicator) | \checkmark | |
| Vital Information Management System (VIMS [™]): graphical information display, external data port, customizable operator profiles | ✓ | |
| Wet-arm wipers/washers (front and rear): intermittent wipers (front and rear) | \checkmark | |
| POWER TRAIN | | |
| Air-to-air aftercooler | \checkmark | |
| Auto shift | √ | |
| Brakes, full hydraulic, enclosed, wet multiple disc service brakes | \checkmark | |
| Cat clean emissions module (Tier 4 Final/ Stage V) | \checkmark | |
| Electro-hydraulic parking brake | \checkmark | |
| Electronic Clutch Pressure Control (ECPC) | √ | |
| Engine, Cat C15 meets Tier 3/Stage IIIA equivalent or Tier 4 Final/Stage V emission standards | \checkmark | |
| Fuel priming pump (electric) | \checkmark | |
| Fuel-to-air cooler | \checkmark | |
| Integrated braking system | \checkmark | |
| Muffler (under hood) (Tier 3/Stage IIIA equivalent) | \checkmark | |
| No-spin rear axle | | \checkmark |
| Radiator, Aluminum Modular (AMR) | \checkmark | |
| Separated cooling system | \checkmark | |
| Single Clutch Speed Shifting (SCSS) | \checkmark | |
| Steering, secondary | \checkmark | |
| Throttle lock | \checkmark | |
| Transmission, planetary powershift (4F/4R) speed range control | √ | |
| EFFICIENCY | | |
| Demand fan – hydraulically driven | \checkmark | |

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

| | Standard | Optional | | Standard | Optiona |
|--|--------------|--------------|---|--------------|--------------|
| COLD WEATHER | | | SERVICE (CONTINUED) | | |
| Antifreeze, -50°C (-58°F) | | \checkmark | Emergency platform egress | ✓ | |
| Antifreeze, premixed 50% concentration extended life (-34°C/-29°F) | √ | | Engine, crankcase 500 hour interval with CJ-4 oil | \checkmark | |
| Arctic hydraulic oil | | \checkmark | Engine precleaner | \checkmark | |
| Heater, engine coolant (120V) | | \checkmark | Fast fill fuel | | \checkmark |
| Heater, engine coolant (240V) | | \checkmark | Fire suppression ready | \checkmark | |
| Mirrors, heated | | \checkmark | Ground-level engine shutoff | \checkmark | |
| Starting aid (ether), automatic | √ | | Ground-level lockable master disconnect switch | \checkmark | |
| Alarm, back-up | √ | | Oil change system, high speed | √ | |
| Cab Integrated Object Detection System | √ | | Oil sampling valves | \checkmark | |
| (CIODS) ready | | | Product Link TM | √ | |
| Camera, rear vision | \checkmark | | Starting receptacle for emergency start | \checkmark | |
| Emergency platform egress | \checkmark | | Tire presssure monitoring system | | \checkmark |
| Internal four-post rollover protective structure (ROPS/FOPS) | √ | | Total hydraulic filtration system | √ | |
| Light, warning switched (LED strobe) | ✓ | | Sound suppression | | ✓ |
| Lighting, access stairway | \checkmark | | OTHER | | |
| Mirror, internal (panoramic) | \checkmark | | Fold down exhaust stack for shipping | √ | |
| Mirrors, rearview (externally mounted) | \checkmark | | Fuel tank, 782 L (207 gal) | √ | |
| Seat belt with minder, retractable, 76 mm | \checkmark | | Guard, driveshaft | ✓ | |
| (3 in) wide | | | Guards, crankcase and power train | ✓ | |
| Stairway, left and right rear access | √ | | Hitch, drawbar with pin | ✓ | |
| STIC TM control system with lockout | ✓ | | Hoses, Cat XT TM | √ | |
| Toe kicks SERVICE | ✓ | | Hydraulic, engine, and transmission oil coolers | \checkmark | |
| Doors, service access (locking) | √ | | Vandalism protection caplocks | √ | |
| Dual engine precleaner | | \checkmark | Venturi stack | ✓ | |
| Ecology drains for engine, radiator, | \checkmark | | | | |

Ecology drains for engine, radiator, transmission, hydraulic tank





Features

- Available in two scoop arrangements wood chip and coal.
- Cat wood chip and coal scoops have the unique capability of maximizing your production by both dozing and carrying a load with each pass.
- A purpose built hydraulic system, optimized for use with this work tool, maximizes machine productivity and efficiency.
- Dual lift cylinders provide hydraulic lift capacity matched to the demands of the application.
- Equipped with ground level accessible swing-out reversing fan for quick inspection and easy cleanout.
- Equipped with underhood ventilation system which creates a neutral pressure environment to prevent wood chip ingestion from hood openings while providing fresh air to the alternator, electronics, and turbo.

- Extended top guard for increased capacity for wood chip scoops.
- Higher ground pressure decreases risk of fires and maximizes use of storage space.
- Less damage to coal or wood chips due to rubber tires.
- High ground speed provides ability to manage multiple piles.
- Scoop design allows load and carry function for mixing.
- Lift and tip-out design makes stockpiling operations easy.
- Scoop tilt control is standard to maximize worksite efficiency.

Specifications

| Engine | | |
|--------------------------------|---|--------------|
| Engine Model | Cat C15 | |
| Emissions | Tier 4 Final/Stage V, or Brazil MAR-1/China Nonroad Stage III, equivalent to Tier 3/ Stage IIIA | |
| Gross Power SAE J1995:2014 | 324 kW | 434 hp |
| Net Power SAE J1349:2011 | 302 kW | 405 hp |
| Maximum Net Torque @ 1,300 rpm | 2005 N•m | 1,479 lbf-ft |

Operating Specifications

| Coal Scoop Operating Weight | 36 752 kg | 81,024 lbs |
|-----------------------------|---------------------|----------------------|
| Chip Scoop Operating Weight | 38 141 kg | 84,086 lbs |
| Coal Scoop Carry Capacity | 13.4 m ³ | 17.5 yd ³ |
| Coal Scoop Doze Capacity | 26.8 m ³ | 35.0 yd ³ |
| Chip Scoop Carry Capacity | 20.6 m ³ | 27.0 yd ³ |
| Chip Scoop Doze Capacity | 41.2 m ³ | 54.0 yd ³ |



Engine

| 5 | | |
|--------------------------------|-----------|--------------|
| Engine Model | Cat C15 | |
| Rated Speed | 1,800 rpm | |
| Gross Power (SAE J1995:2014) | 324 kW | 434 hp |
| Net Power (SAE J1349:2011) | 302 kW | 405 hp |
| Bore | 137.2 mm | 5.4 in |
| Stroke | 171.4 mm | 6.7 in |
| Displacement | 15.2 L | 927.6 in3 |
| Maximum Net Torque (1,300 rpm) | 2005 N•m | 1,479 lbf-ft |
| Max Net Torque Rise | 33% | |

• Net power advertised is the power available at the engine flywheel when the engine is equipped with a fan, air cleaner, clean emissions module and alternator.

• Meets U.S. EPA Tier 4 Final and EU Stage V, or Brazil MAR-1 and China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.

Operating Specifications

| Coal Scoop Operating Weight | 36 752 kg | 81,024 lb |
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| Chip Scoop Carry Capacity | 20.6 m ³ | 27.0 yd ³ |
| Chip Scoop Doze Capacity | 41.2 m3 ³ | 54.0 yd ³ |
| | | |

Transmission

| Transmission Type | Cat planetar | ry powershift |
|-------------------|--------------|---------------|
| Forward 1 | 6.2 km/h | 3.9 mph |
| Forward 2 | 11.1 km/h | 6.9 mph |
| Forward 3 | 19.6 km/h | 12.2 mph |
| Forward 4 | 34.8 km/h | 21.6 mph |
| Reverse 1 | 7.1 km/h | 4.4 mph |
| Reverse 2 | 12.6 km/h | 7.8 mph |
| Reverse 3 | 22.4 km/h | 13.9 mph |
| Reverse 4 | 39.7 km/h | 24.7 mph |

Hydraulic System – Lift/Tilt

| Lift/Tilt System – Circuit | Pilot operated Closed Center LS valve with EH | |
|---|--|---------------------|
| Lift/Tilt System | Variable displacement piston | |
| Max Flow at 1800 rpm | 194 L/min | 51.2 gal/min |
| Relief Valve Setting – Lift/Tilt | 28 000 kPa | 4,061 psi |
| Cylinders, Double Acting: Lift, Bore, Stroke | 139.75 mm x 930 mm | 5.5 in x 36.6 in |
| Left and Right Dump, Bore, Stroke | 114.3 mm x 736 mm | 4.5 in x 29.0 in |
| Cylinders, Double Acting: Tilt, Bore, Stroke | 127 mm x 508 mm | 5.0 in x 20.0 in |
| Pilot System | Variable displacement piston | |
| Pilot Relief Valve Setting | 3800 kPa | 551 psi |

Hydraulic System – Steering

| Pilot, load sensing | |
|------------------------------|--|
| Variable displacement piston | |
| 85 L/min 22.5 gal/min | |
| 24 000 kPa 3,481 psi | |
| 86° | |
| 3.6 sec | |
| 8.0 sec | |
| | |

| Service Refill Capacities | | |
|---|--------|-----------|
| Cooling System | 116 L | 30.6 gal |
| Engine Crankcase | 34 L | 9.0 gal |
| Transmission | 66 L | 17.4 gal |
| Fuel Tank | 782 L | 206.6 gal |
| Diesel Exhaust Fluid Tank (Tier 4 Final/Stage V) | 32 L | 8.5 gal |
| Differentials and Final Drives – Front | 100 L | 26.4 gal |
| Differentials and Final Drives – Rear | 110 L | 29.1 gal |
| Hydraulic Tank Only | 134 L | 35.4 gal |
| Hydraulic System - implement/steering | 214 L | 56.5 gal |
| AC Refrigerant | 20 hg | |
| AC Oil | 146 mL | 4.94 oz |

• All nonroad Tier 4 Final, EU Stage V, and Japan 2014 (Tier 4 Final) diesel engines are required to use:

- Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm (mg/kg) sulfur or less.
- Cat engines are compatible with the following renewable, alternative, and biodiesel* fuels that reduce greenhouse gases:
 Ur to P20 biodiesel (FAME)**
- Up to B20 biodiesel (FAME)**
- Up to 100% HVO and GTL renewable fuels
- Cat DEO-ULS[™] or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specifications are required.
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- * Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.
- ** Engines with aftertreatment devices can use up to B20. Engines with no aftertreatment devices can use higher blends, up to B100.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.0 kg of refrigerant which has a CO_2 equivalent of 2.86 metric tonnes.

| Front | Planetary – fixed |
|-------------------|---|
| Rear | Planetary – oscillating |
| Oscillation Angle | ±11° |
| Brakes | |
| Parking Brake | Drum and shoe, spring applied, hydraulic released |
| | |

Sound Performance

| | Standard | Suppression |
|--------------------------------------|-----------|-------------|
| Operator Sound Level (ISO 6396:2008) | 73 dB(A) | 72 dB(A) |
| Machine Sound Level (ISO 6395:2008) | 113 dB(A) | 110 dB(A) |

- The operator sound pressure level was measured according to the test procedures and conditions specified in ISO 6396:2008. The measurement was conducted at 70% of maximum engine cooling fan speed.
- Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.
- The machine sound power level was measured according to the test procedures and conditions specified in ISO 6395:2008. The measurement was conducted at 70% of maximum engine cooling fan speed.

Dimensions

All dimensions are approximate.



| 1 | Ground to Top of Beacon | 4422 mm | 14 ft 6.1 in |
|----|--|-----------|--------------|
| 2 | Ground to Top of Exhaust Stack | 4332 mm | 14 ft 2.6 in |
| 3 | Ground to Top of Hood | 3204 mm | 10 ft 6.1 in |
| 4 | Ground to Bumper Clearance | 852 mm | 2 ft 9.5 in |
| 5 | Ground to Center of Front Axle | 878 mm | 2 ft 10.6 in |
| 6 | Centerline of Rear Axle to Edge of Bumper | 2830 mm | 9 ft 3.4 in |
| 7 | Wheelbase | 3700 mm | 12 ft 2.0 in |
| 8 | Length to Front Tire | 7365 mm | 24 ft 2.0 in |
| 9 | Length with Coal Scoop on Ground | 10 565 mm | 34 ft 7.9 in |
| 10 | Length with Chip Scoop on Ground | 10 997 mm | 36 ft 1 in |
| 11 | Centerline of Front Axle to Hitch | 1850 mm | 6 ft 0.8 in |
| 12 | Ground Clearance | 534 mm | 1 ft 9.0 in |
| 13 | Height to Top of Cab | 4100 mm | 13 ft 5.4 in |
| 14 | Height to Edge of Retracted Scoop – Chip Scoop | 2191 mm | 7 ft 2.3 in |
| 15 | Height to Edge of Dumped Scoop – Chip Scoop | 1526 mm | 5 ft 0.1 in |
| 16 | Dump Angle at Full Lift Height – Chip Scoop | 77° | |

Scoops



Large capacity scoops for both wood chip and coal applications. A mesh screen integrated into the back of the scoop maintains visibility to the cutting edge. The chip scoop version has extra screens at the top due to higher capacity.



Both scoops come with dual lift cylinders for increased lift capacity. Scoop tilt function is standard and provides ± 3 degrees of tilt to maintain grade conditions and keep your operation safe.

Scoop Specifications

| Blade Type | Carry Capacity | Doze Capacity | Overall Width | Height | Maximum Tilt | Weight | Total Operating Weight |
|------------|----------------|---------------|---------------|-------------|--------------|------------|---------------------------|
| Coal Scoop | 13.4 m3 | 26.8 m3 | 4099 mm | 2015 mm | ±3 degrees | 6964 kg | 36 752 kg |
| | 17.5 yd3 | 35.0 yd3 | 13 ft 5.4 in | 6 ft 7.3 in | | 15,353 lbs | 81,024 lbs |
| Chip Scoop | 20.6 m3 | 41.2 m3 | 4091 mm | 2475 mm | ±3 degrees | 8307 kg | 38 141 kg |
| | 27.0 yd3 | 54.0 yd3 | 13 ft 5.1 in | 8 ft 1.4 in | | 18,314 lbs | 84,086 lbs |

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

| | Standard | Optional |
|---|--------------|--------------|
| ELECTRICAL | | |
| Alternator, 150 amp | \checkmark | |
| Batteries, maintenance free (4 – 1,000 CCA) | \checkmark | |
| Electrical system, 24V | \checkmark | |
| Lighting system, halogen (front and rear) | \checkmark | |
| Lighting system, LED | | \checkmark |
| Starter, electric (heavy duty) | \checkmark | |
| OPERATOR ENVIRONMENT | | |
| Air conditioner | ✓ | |
| Cab, sound-suppressed and pressurized | \checkmark | |
| Cab door, sliding window (LH) | ✓ | |
| Cab precleaner, powered | \checkmark | |
| Coat and hard hat hooks | ✓ | |
| Electro-hydraulic tilt and tip controls | \checkmark | |
| Fingertip shifting controls | \checkmark | |
| Flip-up armrest | \checkmark | |
| Heater and defroster | \checkmark | |
| Horn, electric | \checkmark | |
| Implement hydraulic lockout | \checkmark | |
| Instrumentation, gauges: DEF fluid level (Tier 4 Final/Stage V), engine coolant temperature, fuel level, hydraulic oil temperature, speedometer/tachometer, torque converter temperature | ✓ | |
| Instrumentation, warning indicators: action alert system – three categories, brake oil pressure, electrical system – low voltage, engine failure malfunction alert and action lamp, parking brake status | ✓ | |
| Light, cab, dome | \checkmark | |
| Lunchbox and beverage holders | \checkmark | |
| Power port (12V) for mobile phone or laptop connection | \checkmark | |
| Radio, AM/FM/AUX/USB/Bluetooth | | \checkmark |
| Radio, CB ready | \checkmark | |
| Radio ready for entertainment: antenna, speakers, converter (12V, 10-15 amp) | \checkmark | |
| Rubber mounted, laminated, tinted glass | \checkmark | |
| Seat, premium plus containing forced air heating and cooling, two-way thigh adjustment, power lumbar and back bolster adjustment, ride stiffness adjustment, dynamic end dampening, and leather finish | \checkmark | |

| | Standard | Optional |
|--|--------------|----------|
| OPERATOR ENVIRONMENT (CONTINUED) | | |
| Sun visor, front | ✓ | |
| Transmission gear (indicator) | ✓ | |
| Vital Information Management System | √ | |
| (VIMS): graphical information display, | | |
| external data port, customizable operator profiles | | |
| Wet-arm wipers/washers (front and rear): | ✓ | |
| intermittent wipers (front and rear) | , | |
| POWER TRAIN | | |
| Air-to-air aftercooler | √ | |
| Auto shift | \checkmark | |
| Brakes, full hydraulic, enclosed, wet multiple disc service brakes | \checkmark | |
| Cat clean emissions module (Tier 4 Final/ Stage V) | √ | |
| Electro-hydraulic parking brake | \checkmark | |
| Electronic Clutch Pressure Control (ECPC) | \checkmark | |
| Engine, Cat C15 meets Tier 3/Stage IIIA equivalent or Tier 4 Final/Stage V emission standards | \checkmark | |
| Fuel priming pump (electric) | \checkmark | |
| Fuel-to-air cooler | \checkmark | |
| Integrated braking system | \checkmark | |
| Muffler (under hood) (Tier 3/Stage IIIA equivalent) | \checkmark | |
| No-spin rear axle | | ✓ |
| Radiator, Aluminum Modular (AMR) | \checkmark | |
| Separated cooling system | \checkmark | |
| Single Clutch Speed Shifting (SCSS) | \checkmark | |
| Steering, secondary | \checkmark | |
| Throttle lock | \checkmark | |
| Transmission, planetary powershift (4F/4R) speed range control | \checkmark | |
| EFFICIENCY | | |
| Demand fan – swing out, hydraulically driven, reversible | \checkmark | |
| Engine idle management features: auto idle kickdown, delayed engine shutdown, engine idle shutdown | ✓ | |
| Steering, load sensing | ✓ | |
| Torque converter with Lock Up Clutch (LUC) | \checkmark | |

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

| | Standard | Optional |
|--|--------------|--------------|
| COLD WEATHER | | |
| Antifreeze, -50°C (-58°F) | | \checkmark |
| Antifreeze, premixed 50% concentration extended life (-34°C/-29°F) | \checkmark | |
| Arctic hydraulic oil | | \checkmark |
| Heater, engine coolant (120V) | | \checkmark |
| Heater, engine coolant (240V) | | \checkmark |
| Mirrors, heated | | \checkmark |
| Starting aid (ether), automatic | \checkmark | |
| SAFETY | | |
| Alarm, back-up | \checkmark | |
| Cab Integrated Object Detection System (CIODS) ready | √ | |
| Camera, rear vision | ✓ | |
| Emergency platform egress | ✓ | |
| Internal four-post rollover protective structure (ROPS/FOPS) | ~ | |
| Light, warning switched (LED strobe) | \checkmark | |
| Lighting, access stairway | \checkmark | |
| Mirror, internal (panoramic) | \checkmark | |
| Mirrors, rearview (externally mounted) | \checkmark | |
| Seat belt with minder, retractable, 76 mm (3 in) wide | \checkmark | |
| Stairway, left and right rear access | ✓ | |
| STIC control system with lockout | \checkmark | |
| Toe kicks | \checkmark | |
| SERVICE | | |
| Doors, service access (locking) | \checkmark | |
| Dual engine precleaner | | \checkmark |
| Ecology drains for engine, radiator, transmission, hydraulic tank | \checkmark | |
| EZ Clean cooling package and under-hood ventilation system | \checkmark | |

| | Standard | Optional |
|---|--------------|--------------|
| SERVICE (CONTINUED) | | |
| Emergency platform egress | \checkmark | |
| Engine, crankcase 500 hour interval with CJ-4 oil | \checkmark | |
| Engine precleaner | \checkmark | |
| Fast fill fuel | | ✓ |
| Fire suppression ready | \checkmark | |
| Ground-level engine shutoff | √ | |
| Ground-level lockable master disconnect switch | \checkmark | |
| Oil change system, high speed | \checkmark | |
| Oil sampling valves | \checkmark | |
| Product Link | \checkmark | |
| Starting receptacle for emergency start | \checkmark | |
| Tire presssure monitoring system | | \checkmark |
| Total hydraulic filtration system | \checkmark | |
| SOUND | | |
| Sound suppression | | \checkmark |
| OTHER | | |
| Fold down exhaust stack for shipping | \checkmark | |
| Fuel tank, 782 L (207 gal) | \checkmark | |
| Guard, driveshaft | \checkmark | |
| Guards, crankcase and power train | \checkmark | |
| Hitch, drawbar with pin | \checkmark | |
| Hoses, Cat XT | \checkmark | |
| Hydraulic, engine, and transmission oil coolers | \checkmark | |
| Vandalism protection caplocks | \checkmark | |
| Venturi stack | \checkmark | |



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

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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