

Cat® 990 Wheel Loader

The Cat® 990 Wheel Loader helps you move more material in less time, at a lower cost per ton, for a faster return on your investment. This machine offers significant fuel savings, lower maintenance costs, and greater productivity and durability to achieve multiple life cycles.

Proven Reliability

- Cat C27 engine is built and tested to meet your most demanding applications.
- Longer engine life and improved fuel efficiency with reduced rated speed.
- Designed for longer life, rebuildability, and higher resale value.
- Maximum responsiveness with Steering and Integrated Control (STIC™).
- Moves more material more efficiently with improved power and control.
- Durable construction withstands the toughest loading conditions and multiple life cycles.

Durability

- Best-in-class transmission for long life and consistent, smooth shifting; specifically designed for mining applications.
- Advanced filtration system for extended performance and reliability of the hydraulic system.
- Advanced Impeller Clutch Torque Converter (ICTC) and Rimpull Control System (RCS) reduce tire slippage and wear, improve fuel efficiency, and reduce cost-per-ton.
- Linkage pin joints have optional auto-lube system to ensure long life.
- Frame resists torsional shock and twisting forces.
- Heavy-duty steering cylinder mounts and axle mounting ensure increased structural integrity.

Achieve Greater Productivity

- Two engine emission options are available that meet U.S. EPA
 Tier 4 Final and EU Stage V emission standards or U.S. EPA Tier 2
 and EU Stage II equivalent.
- Up to 10% more payload per pass on truck-loading applications with Performance Series Buckets.
- Payload increase to optimize pass on 775 trucks.
- Positive Flow Control (PFC) hydraulic system increases efficiency, bucket feel, and responsiveness with consistent performance.
- Excellent visibility to the bucket edges and work area through a Z-bar linkage.
- Planetary power shift transmission for maximum uptime.
- Convenient, responsive, electro-hydraulic controls increase operator productivity.
- Superior digging, higher bucket fill factors, reduced dig times.
- · Integrated steering and transmission controls.
- Operators can check tire pressure during operation with any change sending a fault code to VisionLink®, preventing premature tire failure.

Superior Fuel Efficiency

- Up to 54% fuel efficiency material per gallon of fuel (27% less fuel consumption).
- Economy mode for reduced rated engine speed and reduced fuel consumption.
- Positive flow-control hydraulics for full flow on demand at lower engine speeds.
- Engine Idle Shutdown for less fuel used while idling.
- Fully integrated electronic engine controls make your fuel go farther.



Increase Productivity and Efficiency with Integrated Technologies

- Developed to monitor, manage, and enhance your jobsite operations.
- Payload provides accurate weighing* of the materials you are loading and hauling. Payload data is displayed in real-time to improve productivity and reduce overloading.
- Detect enhances awareness of the environment around working equipment and provides alerts to help keep people and assets safe on the jobsite.
- VisionLink wirelessly connects you to your equipment, giving you access to essential information you need to know to run your business.
- Gain valuable insight into how your machine or fleet is performing.
- Optional Advanced Productivity subscription provides comprehensive actionable information to help you manage and improve the productivity and profitability of your operations.

Reduced Maintenance and Other Costs

- 10% lower maintenance costs.
- · Grouped service points.
- Electro-hydraulic controls.
- Swing-out engine compartment service doors.
- Ecology drains to prevent spilled contaminants.
- · Ground level access to transmission control valves.
- Vehicle Information Management System (VIMS™) notifications to resolve problems before failure.
- · Longer life, rebuildability, and high resale value.

Safety Features

- Standard stairway lighting.
- Left- and right-hand stairs with 45-degree angle.
- Standard Cat Vision, rear vision camera system.
- Pressurized cabin with filtered and reduced sound levels.

Easy, Comfortable Operator Environment

- · Best-in-class operator comfort and ergonomics.
- Comfort Series III seats with extra thick, contoured cushions (optional heated and ventilated seats).
- Easy-to-reach levers and controls with seat-mounted implement pod to reduce fatigue.
- Ergonomic switch placement and displays with large backlit switches, LED indicators, and ISO symbols.
- · Optional heated mirrors.
- Two-position rocker switch activates the electro-hydraulic parking brake
- Reduced vibrations from isolated cab mounts and seat air suspension.
- Automatic cab temperature controls.
- Achieve precise positioning for easy loading in tight areas with 35 degrees of steering articulation.
- Precise machine control by load-sensing hydraulic steering system.

Purpose-Built Specialty Arrangements Millyard

- Designed to meet the demands of millyard applications.
- Designed for durability, ensuring availability in multiple life cycles.
- Equipped with Economy Mode to save on fuel consumption by the use of On Demand Throttle.
- Equipped with Impleller Clutch Torque Convereter (ICTC) and Rimpull Control System (RCS) to reduce tire slippage and fuel efficiency.
- Full hydraulic flow down to 1,400 engine rpm by using hydraulic flow sharing technology.
- Equipped with 45 degree angle access ladders and standard Cat Vision for enhanced safety.
- Cat forks are designed for maximum productivity and durability.
- Integrates front camera mounting location for maximum visibility to the entire fork tips during truck unloading.

Purpose-Built Specialty Arrangements Steel Mill

- World class safety, operator comfort and efficiency in pit digging and skull handling applications.
- Efficiency of manual throttle and ergonomics of throttle lock.
- Excellent visibility to the bucket edges and work area through a Z-bar design.
- Equipped with extra heat protection to key hoses and harnesses for improved reliability.

^{*}Not legal for trade.

Standard and Optional Equipment

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

Alternator, 150 amp Alternator, 150 amp Batteries, maintenance free (2 – 1,400 CCA) Converter, 10/15 amp, 24V to 12V Ground level starter lockout Ground level starter lockout Cound level transmission lockout Lighting system, halogen (front and rear) lighting, access stairway, engine compartment Starter, electric Starter receptacle for emergency start OPERATOR ENVIRONMENT Air conditioner and heater with automatic heater control Cab precleaner, powered Cab, sound suppressed and pressurized, protective structure (ROPS/FOPS) Cat Vision, rear vision camera system CB radio ready Cigar lighter and ashtray Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor		Standard	Optional
Alternator, 150 amp Batteries, maintenance free (2 – 1,400 CCA) Converter, 10/15 amp, 24V to 12V Ground level starter lockout Ground level starter lockout V Lighting system, halogen (front and rear) lighting, access stairway, engine compartment Starter, electric Starter receptacle for emergency start OPERATOR ENVIRONMENT Air conditioner and heater with automatic heater control Cab precleaner, powered Cab, sound suppressed and pressurized, protective structure (ROPS/FOPS) Cat Vision, rear vision camera system CB radio ready Cigar lighter and ashtray Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	ELECTRICAL		
Batteries, maintenance free (2 – 1,400 CCA) Converter, 10/15 amp, 24V to 12V Ground level starter lockout Ground level transmission lockout Lighting system, halogen (front and rear) lighting, access stairway, engine compartment Starter, electric Starter receptacle for emergency start OPERATOR ENVIRONMENT Air conditioner and heater with automatic heater control Cab precleaner, powered Cab, sound suppressed and pressurized, protective structure (ROPS/FOPS) Cat Vision, rear vision camera system CB radio ready Cigar lighter and ashtray Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	Alarm, back-up	✓	
Converter, 10/15 amp, 24V to 12V Ground level starter lockout Ground level transmission lockout Lighting system, halogen (front and rear) lighting, access stairway, engine compartment Starter, electric Starter receptacle for emergency start OPERATOR ENVIRONMENT Air conditioner and heater with automatic heater control Cab precleaner, powered Cab, sound suppressed and pressurized, protective structure (ROPS/FOPS) Cat Vision, rear vision camera system CB radio ready Cigar lighter and ashtray Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat - leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	Alternator, 150 amp	✓	
Ground level starter lockout Ground level transmission lockout Lighting system, halogen (front and rear) lighting, access stairway, engine compartment Starter, electric Starter receptacle for emergency start OPERATOR ENVIRONMENT Air conditioner and heater with automatic heater control Cab precleaner, powered Cab, sound suppressed and pressurized, protective structure (ROPS/FOPS) Cat Vision, rear vision camera system CB radio ready Cigar lighter and ashtray Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor		✓	
Ground level starter lockout Ground level transmission lockout Lighting system, halogen (front and rear) lighting, access stairway, engine compartment Starter, electric Starter receptacle for emergency start OPERATOR ENVIRONMENT Air conditioner and heater with automatic heater control Cab precleaner, powered Cab, sound suppressed and pressurized, protective structure (ROPS/FOPS) Cat Vision, rear vision camera system CB radio ready Cigar lighter and ashtray Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor		✓	
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Starter, electric Starter receptacle for emergency start OPERATOR ENVIRONMENT Air conditioner and heater with automatic heater control Cab precleaner, powered Cab, sound suppressed and pressurized, protective structure (ROPS/FOPS) Cat Vision, rear vision camera system CB radio ready Cigar lighter and ashtray Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	Ground level transmission lockout	√	
Starter receptacle for emergency start OPERATOR ENVIRONMENT Air conditioner and heater with automatic heater control Cab precleaner, powered Cab, sound suppressed and pressurized, protective structure (ROPS/FOPS) Cat Vision, rear vision camera system CB radio ready Cigar lighter and ashtray Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor		√	
OPERATOR ENVIRONMENT Air conditioner and heater with automatic heater control Cab precleaner, powered Cab, sound suppressed and pressurized, protective structure (ROPS/FOPS) Cat Vision, rear vision camera system CB radio ready Cigar lighter and ashtray Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat − leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	Starter, electric	✓	
OPERATOR ENVIRONMENT Air conditioner and heater with automatic heater control Cab precleaner, powered Cab, sound suppressed and pressurized, protective structure (ROPS/FOPS) Cat Vision, rear vision camera system CB radio ready Cigar lighter and ashtray Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat − leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	Starter receptacle for emergency start	√	
Cab precleaner, powered Cab, sound suppressed and pressurized, protective structure (ROPS/FOPS) Cat Vision, rear vision camera system CB radio ready Cigar lighter and ashtray Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat — leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor			
Cab, sound suppressed and pressurized, protective structure (ROPS/FOPS) Cat Vision, rear vision camera system CB radio ready Cigar lighter and ashtray Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor		✓	
structure (ROPS/FOPS) Cat Vision, rear vision camera system CB radio ready Cigar lighter and ashtray Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	Cab precleaner, powered	✓	
CB radio ready Cigar lighter and ashtray Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat — leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor		✓	
Cigar lighter and ashtray Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	Cat Vision, rear vision camera system	✓	
Coat hook Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	CB radio ready		✓
Flip-up armrest Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	Cigar lighter and ashtray	✓	
Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	Coat hook	✓	
Heater and defroster Horn, electric Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	Flip-up armrest	√	
Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor		√	
Implement hydraulic lockout Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	Horn, electric	√	
Keypad control with indicator lights LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	·	√	
LED warning strobe Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor		√	
Lunchbox, beverage holders Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor			✓
Mirrors, rearview (externally mounted) Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor		√	
Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius Seat – leather/cloth, air suspension, heated/cooled Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor		√	
Seat belt minder Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	Radio, AM/FM/CD/MP3,		✓
Seat belt, retractable, 76 mm (3 in) wide STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	Seat – leather/cloth, air suspension, heated/cooled	✓	
STIC System with steering lock Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	Seat belt minder	✓	
Tinted glass Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	Seat belt, retractable, 76 mm (3 in) wide	✓	
Trainer seat with lap belt Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor	STIC System with steering lock	✓	
Wet-arm wipers/washers (front, rear, and corner), intermittent front wiper Window pull-down visor ✓	Tinted glass	✓	
intermittent front wiper Window pull-down visor ✓		✓	
Window pull-down visor ✓	Wet-arm wipers/washers (front, rear, and corner),	✓	
•			
POWER TRAIN	·		✓
	POWER TRAIN		
Antifreeze, -50° C (-58° F) ✓			✓
Axle-shift oil-disc service brake ✓		✓	
Brakes, oil-disc, full hydraulic, enclosed ✓	Brakes, oil-disc, full hydraulic, enclosed	✓	
Case drain screens ✓		✓	
Cat clean emission module (CEM) − Tier 4 only	Cat clean emission module (CEM) — Tier 4 only	✓	
Demand fan ✓		✓	
Electro hydraulic parking brake ✓	Electro hydraulic parking brake	✓	

	Standard	Optional
POWER TRAIN (CONTINUED)		
Engine, C27	✓	
Engine block heater 120V or 240V		✓
Engine oil change system, high speed, Wiggins		✓
Fuel priming pump (electric)	✓	
Ground level engine shutoff	✓	
High ambient cooling – software		✓
Mufflers (under hood) – Tier 2 equivalent only	✓	
Precleaner engine air intake	✓	
Radiator, Aluminum Modular Radiator (AMR)	✓	
Separated cooling system	✓	
Starting aid, ether, manual override	✓	
Throttle lock	✓	
Torque converter, Impeller Clutch (ICTC) with Lock Up Clutch (LUC), Rimpull Control System	✓	
Transmission, 534 mm (21 in) planetary power shift	✓	
(electronic) (3F/3R)		
OTHER		
Automatic bucket lift kickout/positioner	√	
Axle oscillation stop		✓
Axle temperature sensor	√	
Cab mounts, heavy duty		✓
Economy mode with on demand throttle	<u> </u>	
Emergency platform egress	<u> </u>	
Engine, crankcase 500-hour interval with CH4		
Engine idle management: auto idle kickdown, delayed engine shutdown, engine idle shutdown	√	
Fast fill fuel system		✓
Fenders, front and rear roading		✓
Fenders, steel (front)	√	
Ground level battery disconnect and jump start receptacle	✓	
Grouped/labeled lube points	✓	
Guards, crankcase and power train	✓	
Hitch, drawbar with pin	✓	
Oil sampling valves	✓	
Positive flow control hydraulic system	✓	
Premixed 50% concentration of extended life	✓	
coolant with freeze protection to -34° C (-29° F)		
Product Link™	√	
Sight gauges: hydraulic tanks, steering/fan and implement/brake, and transmission	✓	
Stairway, left and right rear access	✓	
Steering, load sensing	✓	
Tire Pressure Monitoring System		✓
Toe kicks	✓	
Vandalism protection caplocks	✓	
Venturi stack	✓	
OTHER OPTIONAL CONFIGURATIONS		
Millyard		✓
0. 114		

Steel Mill

Technical Specifications

Engi	ine	
Engine Model	C	27
Rated Speed	1,800 rpm	
Engine Power – ISO 14396:2002	561 kW	752 hp
Gross Power – SAE J1995:2014	571 kW	766 hp
Net Power – SAE J1349:2011 (Standard Ambient)	521 kW	699 hp
Net Power – SAE J1349:2011 (High Ambient)	483 kW	648 hp
Bore	137.2 mm	5.4 in
Stroke	152.4 mm	6.0 in
Displacement	27.03 L	1,649.5 in ³
Peak Torque (1,200 rpm)	3557 N⋅m	2,624 lbf-ft
Torque Rise	18	1%

Net power advertised is the power available at the flywheel when the engine is
equipped with fan at minimum speed, air intake system, exhaust system, and alternator.

Two engine emission options are available:

- 1. Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- 2. Equivalent to U.S. EPA Tier 2 and EU Stage II.

Operating Specifications			
Operating Weight – Standard	80 974 kg	178,517 lb	
Rated Payload – Standard	15.9 tonnes	17.5 tons	
Rated Payload – High Lift	15.9 tonnes	17.5 tons	
Bucket Capacity Range	8.6-10.0 m ³	11.25-13.0 yd ³	
Cat Truck Match – Standard	773-775		
Cat Truck Match – High Lift	775-777		

		Tra	nsmission		
Transmission Type			Cat planetary power shi	ft	
Speed	km/h	mph	Speed	km/h	mph
Forward 1	7.3	4.5	Direct Drive Forward 1	Lock-up	disabled
Forward 2	13.3	8.3	Direct Drive Forward 2	13.7	8.5
Forward 3	22.9	14.2	Direct Drive Forward 3	24.5	15.2
Reverse 1	7.9	4.9	Direct Drive Reverse 1	8.7	5.4
Reverse 2	14.7	9.1	Direct Drive Reverse 2	15.4	9.6
Reverse 3	24.9	15.5	Direct Drive Reverse 3	26.4	16.4

• Travel speeds based on Michelin 45/65R39 LD D2**L5 tires.

Hydraulic System – Lift/Tilt			
Lift/Tilt System – Circuit	Positive flo	w control	
Lift/Tilt System	Variable displac	cement piston	
Relief Valve Setting – Lift/Tilt	33 000 kPa	4,786 psi	

Hydraulic Cycle Time			
Rackback	4.3 Seconds		
Raise	8.2 Seconds		
Dump	2.9 Seconds		
Lower	3.7 Seconds		
Lower Float Down	3.6 Seconds		
Total Hydraulic Cycle Time (empty bucket)	13.8 Seconds		

Hydraulic System – Steering			
Steering System – Circuit	Pilot, load	sensing	
Steering System – Pump	Variable displac	cement piston	
Relief Valve Setting – Steering	32 000 kPa	4,641 psi	
Total Steering Angle	70	0	

Service Refill Capacities	;	
Fuel Tank	1114.0 L	294.3 gal
Transmission	110.0 L	29.1 gal
Differentials and Final Drives – Front	271.0 L	71.6 gal
Differentials and Final Drives – Rear	261.0 L	68.9 gal
Hydraulic System Factory Fill	795.0 L	210.0 gal
Hydraulic Tank (Implement and Hydraulic Fan)	261.0 L	68.9 gal
Hydraulic Tank (Steering and Braking)	132.0 L	34.9 gal

 All nonroad U.S. EPA Tier 4 Final/Stage V diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm (mg/kg) sulfur or less. Biodiesel blends up to B20 (20% blend by volume) are acceptable when blended with 15 ppm (mg/kg) sulfur or less ULSD. B20 should meet ASTM D7467 specification (biodiesel blend stock should meet Cat biodiesel spec, ASTM D6751 or EN 14214. Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specification are required. For further fluid specifications and guidelines, visit: http://parts.cat.com/cda/ files/3244668/7/SEBU6250-19.pdf.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.7 kg of refrigerant which has a ${\rm CO_2}$ equivalent of 3.861 metric tonnes.

Sound Performance –	Tier 4 Final/Stage	V
	Standard	Suppression
Operator Sound Level (ISO 6396:2008)	69 dB(A)	69 dB(A)
Machine Sound Level (ISO 6395:2008)	115 dB(A)	113 dB(A)

Sound Performance – Tier 2/Stage II Equivalent			
	Standard	Suppression	
Operator Sound Level (ISO 6396:2008)	69 dB(A)	69 dB(A)	
Machine Sound Level (ISO 6395:2008)	115 dB(A)	113 dB(A)	

- 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 percent of the maximum engine cooling fan speed.
- 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 percent of the 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.





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