



Cat[®] 992

Wheel Loader

The Cat[®] 992 Large Wheel Loader has set the standard in its size class for more than 50 years, delivering industry-leading productivity, unparalleled reliability and long life. Today's 992 raises the bar. Compared to the 992K, the new 992 is up to 48% more efficient and 32% more productive, thanks to higher payload for improved pass match, increases in rimpull and breakout force, and an optimized linkage design. Extended component replacement intervals plus increased filter and turbo life help reduce maintenance costs. These improvements — and many more — combine to provide significant savings over the life of the machine for the lowest owning and operating costs in the industry. With both standard and high-lift configurations, the 992 offers the ideal pass match for fleets of Cat 775, 777 and 785 trucks.

SAFETY

- Designed for enhanced visibility, with a taller windshield that provides a 25% increase in glass surface area for a better view to the bucket, standard rear-view camera, optional Detect 270-degree multiview cameras, standard LED lighting and mining mirrors.
- Improved access and egress, with integrated powered access system, adjustable hanging steps, 45-degree-angle wide stairs, emergency egress ladder, and full handrails on each side.
- Wide walkways with non-skid surfaces and integrated lockout/tagout points designed into the service areas.

OPERATOR COMFORT

- 50% increase in leg room and increased width by the operator's knees compared to previous model.
- Reduced vibration, low sound levels and automatic temperature controls.
- Electro-hydraulic speed-sensing steering with force feedback for shift-long comfort.
- Pressurized cab featuring Next Gen Seat with 9-inch travel, active cooling and heating, adjustable lumbar support, seat cushion tilt adjustment, and air-adjustable bolsters on the seat and backrest.

CONFIDENT AND EMPOWERED OPERATORS

- Tire Slip Prevention, which reduces rimpull when there is less downforce on the tire and increases rimpull when there is more downforce on the tire — providing maximum rimpull when you can use it.
- Tire Set, which automatically applies a lift command at the optimal time to increase traction on the tire, allowing for an increase in usable rimpull.
- Lift Stall Prevention, which automatically applies the impeller clutch when necessary to prevent hydraulic stall when lifting up through the face — keeping the lift motion continuous, without excessive use of the impeller clutch.
- Large, easy-to-read, color LED displays that provide access to the Electronic Operation & Maintenance Manual.
- Operator coaching, which helps empower operators to exceed targets by measuring and providing feedback to reinforce proper operating techniques.
- Payload Overload Prevention, which inhibits severe payloads from being raised to full truck height.

PRODUCTIVITY

- Increased rated payload, which allows for a 4-pass match to a 90.7-tonne (100-ton) truck in all applications.
- Better digging thanks to 20% more breakout force compared to previous models, with no increase in cycle time; 9.5% boost in rimpull; and increased traction.

SUSTAINABILITY

- Positive Flow Control Hydraulic System, which boosts efficiency with concurrent pump and valve control and increases bucket feel and control to deliver consistent performance.
- On-demand throttle feature that allows operators to maintain normal operation with the left pedal and implements while the 992 manages the engine speed.
- Designed to be more efficient and use less fuel, which reduces engine emissions and carbon footprint; Tier 4 Final engine reduces NOx and particulate matter.
- Engine Idle Shutdown, which saves fuel by making it possible to avoid unnecessary idling.
- Retrofits and upgrades for older machines — to incorporate efficiency improvements and emission reductions, and to keep them in production longer to conserve energy and minimize the need for raw materials
- Cat Rebuild and Cat Reman programs, which preserve raw materials, conserve energy and reduce emissions.

DURABILITY

- New C32B engine improved for increased durability.
- Powertrain improvements including 20% increase in Planned Component Replacement interval of drivetrain components; increase in axle housing size, which enabled the elimination of the brake anchor and integration of brakes into the housing; 23% increase in oscillation joint diameter, which greatly increases surface area and reduces bearing wear; and increased hardness on Output Transfer Gears (OTG).



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Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
POWER TRAIN			ELECTRICAL AND LIGHTING (continued)		
Engine, C32B	✓		Live line indicators in service center	✓	
Fuel priming pump (electric)	✓		LED warning lights (pattern selectable)	✓	
Ground-level engine shutdown	✓		LED lighting system:	✓	
Engine air intake (above hood) precleaner	✓		– Two front- and rear-mounted LED turn signals		
Aluminum Modular Radiator (AMR)	✓		– Four forward-facing running lights		
Automatic, ether starting aid	✓		– Three forward-facing flood lights		
Electronic throttle lock	✓		– Four platform-mounted flood lights		
Impeller Clutch Torque Converter (ICTC) with lock-up clutch	✓		– Two forward-facing high beams		
Rimpull control system	✓		– Four rear-facing floods		
Planetary powershift, 3F/3R electronic control transmission	✓		– Four stairway lights		
Delayed engine shutdown	✓		– Two engine bay service lights		
Oil-cooled, multi-disc, service brakes	✓		Six service lights		✓
Electro-hydraulic parking brake	✓		Two hitch-mounted lights		✓
Auto retarding controls	✓		OPERATOR ENVIRONMENT		
Advanced auto retarding controls with engine brake		✓	Premium seat with heated and actively cooled leather, adjustable lumbar support, air adjustable bolsters on the seat and backrest, seat cushion tilt adjustment and two-way thigh support adjustment	✓	
Brake temp estimator	✓		Bonded glass, tinted	✓	
Autoshift	✓		Rubber-mounted, high-impact resistant solar control glass		✓
LINKAGE			Trainer seat	✓	
Standard lift (23 tonnes/25.5 tons face, 27.2 tonnes/30 tons loose)	✓		Trainer seat with suspension		✓
High lift (20.5 tonnes/22.5 tons face, 24.5 tonnes/27 tons loose)		✓	Dual-lever lift and tilt function controls	✓	
EFFICIENCY			Joystick lift and tilt function controls		✓
Variable displacement implement pumps	✓		Implement kickouts	✓	
Variable displacement load-sensing steering	✓		Air conditioner	✓	
Variable displacement cooling fan pump	✓		Cab pressure indicator	✓	
Torque converter lock-up clutch	✓		Graphical touchscreen information display conveys real-time operating information and payload measurement	✓	
Bucket float	✓		Heater, defroster, auto temperature controls	✓	
Automatic bucket controls:	✓		Gauge instrumentation with configurable widgets:	✓	
– Lift kickout			– Status indicators		
– Return-to-dig kickout			– Wheel rev counter		
Default on-demand throttle (economy mode) with HP+ mode button	✓		– Simplified payload		
Engine idle shutdown	✓		– TPMS (optional)		
ELECTRICAL AND LIGHTING			– Bucket angle		
150-amp alternator	✓		– Coolant temperature		
Four 1400 CCA batteries	✓		– Hydraulic oil temperature		
10/15 amp, 24V to 12V converter	✓		– Fuel level		
Emergency jump-start receptacle	✓		– Power train oil temperature		
Starter and transmission lockout in bumper	✓		– Engine speed (tachometer)		
24V starting and charging system	✓		– Transmission gear		
Electric starters	✓		– Ground speed		
Single pole battery isolator	✓		– Engine hour meter		
Dual pole battery isolator		✓			

Standard and Optional Equipment (continued)

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT (continued)			SAFETY (continued)		
Powered cab precleaner	✓		Fire suppression ready (tank mounting provision and provision for integration with machine electronics for monitoring faults or activation)		✓
Operator presence status	✓		Emergency stop system (E-Stop)		✓
Starting/charging system malfunction	✓		Implement lockout switch	✓	
Electronic OMM	✓		Seatbelt warning	✓	
Operator controls help	✓		Entertainment radio mute	✓	
Bluetooth®-enabled machine security		✓	COLD WEATHER		
Two USB charging ports	✓		Cold-weather cooling fan bypass (recommended for temperatures below -29° C [-20° F])		✓
CB mounting, 12V/24V power and antenna	✓		120V or 240V coolant heating elements (recommended in conditions from -18° C to -30° C [0° F to -22° F])		✓
14-pin service port	✓		Fuel heater (heated by recirculation using engine heat and a heat exchanger) (recommended in conditions from -18° C to -30° C [0° F to -22° F])		✓
12V power	✓		Heated mirrors		✓
Selectable application profiles	✓		MACHINE CONTROL AND GUIDANCE		
Entertainment radio mute	✓		Cat Payload with Overload Prevention		✓
Push-To-Start (PTS)	✓		MineStar Health ready	✓	
Warning/indicator instrumentation	✓		MineStar GUIDE ready		
Keypad control with indicator lights	✓		MineStar Edge ready		
Dome light in cab	✓		New Autodig Components:		✓
Lunchbox and beverage holders	✓		– Tire slip prevention		
Electro-hydraulic force feedback steering	✓		– Lift stall prevention		
Sun screen, pull down (front and rear)		✓	– Tire set		
Vital Information Management System (VIMS™) with information display: external data port, cycle timer	✓		Operator coaching		✓
AM/FM/AUX radio		✓	COOLING		
AM/FM/AUX/USB/BT/CD/SAT radio		✓	Standard ambient package (recommended for site conditions that do not exceed 43° C [110° F])	✓	
Coat hook	✓		High ambient package (recommended for site conditions that do not exceed 55° C [131° F])		✓
SAFETY			RIMS AND TIRES		
Ground-access ladders	✓		Rims – 914.4 mm (36") (36 × 45) 113.3 mm (4.5") flange		✓
Powered ground-access stairs		✓	For use with 45/65R45 and 45/65-45 tires		
Rear-vision camera	✓		Tires – 45/65R45		
Side-vision cameras (270 degree)		✓	Tires – 45/65-45		
Cat® Detect (rear object detection)		✓	SPARE RIMS		
Front walkway around cab	✓		914.4 mm (36") (36 × 45) (4.5") flange		✓
Tie-offs on Rollover Protective Structure (ROPS)	✓		SOUND		
Steering frame lock	✓		Sound-suppression package		✓
Wheel chocks		✓	LOAD AND CARRY OR EXTENSIVE TRAMMING		
Stairways on both sides of the machine	✓		Ride control		✓
Platform toe kicks	✓				
Retractable seatbelt, operator and trainer seat	✓				
Back-up alarm	✓				
Secondary steering		✓			
Electric disc horns	✓				
Electric trumpet field horn plus electric shop horn		✓			

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Technical Specifications

Engine		
Engine Model	Cat® C32B	
Emissions	U.S. EPA Tier 4 Final, U.S. EPA Tier 2 Equivalent	
Rated Speed	1,750 rpm	
Gross Power – SAE J1995 @ 1,750 rpm		
Tier 4/HRC (Highly Regulated Country) – Standard	671 kW	900 hp
Tier 4/HRC – High Ambient	699 kW	937 hp
Tier 2/LRC (Less Regulated Country) – Standard	676 kW	907 hp
Tier 2/LRC – High Ambient	704 kW	944 hp
Gross Power – ISO 14396 @ 1,750 rpm		
Tier 4/HRC – Standard	659 kW	884 hp
Tier 4/HRC – High Ambient	687 kW	921 hp
Tier 2/LRC – Standard	666 kW	893 hp
Tier 2/LRC – High Ambient	694 kW	931 hp
Net Power – SAE J1349 @ 1,750 rpm		
Tier 4/HRC – Standard	607 kW	814 hp
Tier 4/HRC – High Ambient	607 kW	814 hp
Tier 2/LRC – Standard	614 kW	823 hp
Tier 2/LRC – High Ambient	614 kW	823 hp
Bore	145 mm	5.7 in
Stroke	162 mm	6.4 in
Displacement	32.1 L	1,963.5 in³
Peak Torque – SAE J1995		
Tier 4/HRC – Standard @ 1,200 rpm	4765 N·m	3,514 lbf·ft
Tier 4/HRC – High Ambient @ 1,300 rpm	4820 N·m	3,555 lbf·ft
Tier 2/LRC – Standard @ 1,200 rpm	4796 N·m	3,537 lbf·ft
Tier 2/LRC – High Ambient @ 1,350 rpm	4841 N·m	3,570 lbf·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 at minimum speed, air intake system, exhaust system, and alternator.		

Operating Specifications		
Operating Weight	105 882 kg	233,430 lb
Rated Payload – Standard	23.1 tonnes	25.5 tons
Rated Payload – Standard (Material Handler)	27.2 tonnes	30 tons
Rated Payload – High Lift	20.4 tonnes	22.5 tons
Rated Payload – High Lift (Material Handler)	24.5 tonnes	27 tons
Bucket Capacity Range	11.5-24.5 m ³	15-32 yd ³
Cat Truck Match – Standard Lift	775/777	
Cat Truck Match – High Lift	785	

Transmission		
Transmission Type	Cat Planetary Powershift	
Forward 1	7 km/h	4.3 mph
Forward 2	11.9 km/h	7.4 mph
Forward 3	20.5 km/h	12.7 mph
Direct Drive – Forward 1	Disabled	Disabled
Direct Drive – Forward 2	12.9 km/h	8 mph
Direct Drive – Forward 3	22.6 km/h	14 mph
Reverse 1	7.5 km/h	4.7 mph
Reverse 2	13 km/h	8.1 mph
Reverse 3	22.4 km/h	13.9 mph
Direct Drive – Reverse 1	8 km/h	5 mph
Direct Drive – Reverse 2	14.2 km/h	8.8 mph
Direct Drive – Reverse 3	24.7 km/h	15.3 mph

Hydraulic System – Lift/Tilt		
Lift/Tilt System – Circuit	Positive Flow Control	
Lift/Tilt System – Pumps	Variable Displacement Piston	
Maximum Flow @ 2,165 rpm	950 L/min	250 gal/min
Relief Valve Setting – Lift/Tilt	34 500 kPa	5,000 psi
Lift Cylinder – Bore	235.0 mm	9.3 in
Lift Cylinder – Stroke	1613 mm	63.5 in
Tilt Cylinder – Bore	292 mm	11.5 in
Tilt Cylinder – Stroke	1055 mm	41.5 in

Hydraulic Cycle Time	
Rack Back	
Standard	2.3 seconds
High Lift	2.3 seconds
Raise	
Standard	9.0 seconds
High Lift	9.0 seconds
Dump	
Standard	2.6 seconds
High Lift	2.6 seconds
Float Down	
Standard	3.2 seconds
High Lift	3.2 seconds

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(Global including Japan)

