

992 Wheel Loader

Technical Specifications

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

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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 in ³			
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			

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	775/777/785	
Cat Truck Match – High Lift	777/785	
Transmission		
Transmission Type	Cat Planetar	y 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 Flov	v Control
Lift/Tilt System – Pumps	Variable Disp Piston	placement
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
Total Cycle Time	17.1 seconds

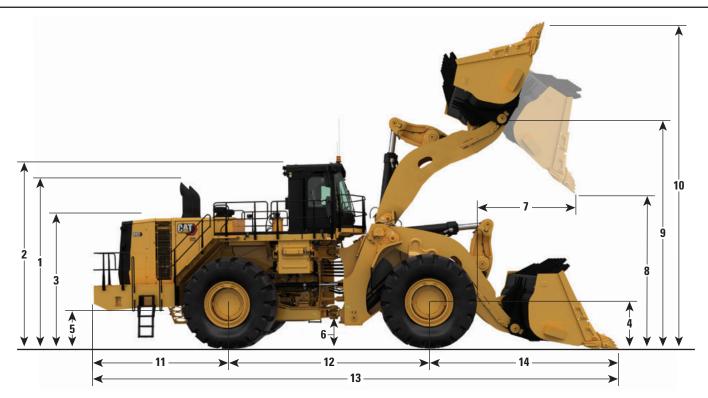
Service Refill Capacities		
Fuel Tank	1460 L	385.7 gal
Cooling System	225 L	59.4 gal
Crankcase	120 L	31.7 gal
Transmission	195 L	51.5 gal
Differentials and Final Drives – Front	365 L	96.4 gal
Differentials and Final Drives – Rear	365 L	96.4 gal
Hydraulic System Factory Fill (Implement)	394 L	104.1 gal
Hydraulic Tank (Implement Tank Only)	228 L	60.2 gal
Hydraulic Factory Fill (Steering)	123 L	32.5 gal
Hydraulic Tank (Steering Tank Only)	99.5 L	26.3 gal

Axles	
Front	Fixed
Rear	Trunnion
Oscillation Angle	±9°

Brakes	ISO	O 3450:20	11			
Hydraulic System – Stee	ering					
Steering System – Circuit	Pil	ot, Load	Sensing			
Steering System – Pump		ston, Vari				
Maximum Flow @ 1,400-1,850	rpm 26.	5 L/min	70 gal/mi			
Steering Cut-Off Pressure	31	000 kPa	4,500 psi			
Total Steering Angle	80	80°				
Steering Cycle Time (Low Idle)	4.9	4.9 seconds				
Steering Cycle Time (High Idle)	3.1	3.1 seconds				
Cooling System						
Ambient Capability, Hydraulica	ılly Driven De	mand Fa	n			
Standard	43'	°C	109.4° F			
High	55'	°C	131° F			
Sound Performance						
Sound Levels	Standard	Su	ppression			
Operator Sound Level (ISO 6396:2008)	70 dB(A)	70	dB(A)			
Machine Sound Level (ISO 6396:2008)	116 dB(A) 11:	3 dB(A)			

Dimensions

All dimensions are approximate.



	Standaı 13 m³ (17 yd		High 11.5 m³ (15 ye	
1 Ground to Top of Exhaust Stacks	5169 mm	17.0 ft	5169 mm	17.0 ft
2 Ground to Top of ROPS	5571 mm	18.3 ft	5571 mm	18.3 ft
3 Ground to Top of Hood	3983 mm	13.1 ft	3983 mm	13.1 ft
4 Ground to Center of Front Axle	1308 mm	4.3 ft	1308 mm	4.3 ft
5 Ground to Bumper Clearance	1145 mm	3.8 ft	1145 mm	3.8 ft
6 Ground to Lower Hitch Clearance	666 mm	2.2 ft	666 mm	2.2 ft
7 Reach at Maximum Lift	2503 mm	8.2 ft	2319 mm	7.6 ft
8 Clearance at Maximum Lift	4630 mm	15.2 ft	5256 mm	17.2 ft
9 B-Pin Height at Maximum Lift	6948 mm	22.8 ft	7465 mm	24.5 ft
10 Maximum Overall Height, Bucket Raised	9390 mm	30.8 ft	9759 mm	32.0 ft
11 Rear Axle Center Line to Bumper	4119 mm	13.5 ft	4119 mm	13.5 ft
12 Wheel Base	5890 mm	19.3 ft	5890 mm	19.3 ft
3 Maximum Overall Length	15 489 mm	50.8 ft	15 733 mm	51.6 ft
14 Front Axle Centerline to Bucket Tip	5480 mm	18.0 ft	5724 mm	18.8 ft

Bucket Selection Guide

When sizing the bucket, it is important to consider the Maximum Swung Load. The Maximum Swung Load is defined as the maximum allowed combined weight of the bucket and payload. Large Wheel Loader Payload Policy is that the Maximum Swung Load should never be exceeded.

"Example Bucket Weight" includes spade edge, heavy duty tips, half arrow segments, and two sidebar protectors.

If a bucket weight other than the weight specified in the tables is chosen, the bucket size can be evaluated using the following equations:

Maximum Payload = Maximum Swung Load - Bucket Weight

Maximum Density = (Maximum Swung Load – Bucket Weight)/Bucket Volume

Note: The default Target Payload (90% of maximum payload) is intended to accommodate variation in payload without exceeding the Maximum Swung Load. Target payload can be higher with less variation.

The rated capacity of the tires should always be considered.

Face Application

Standard Li	ft: Rated Pa	ayload 23.1 to	nnes (25.5 tor	ıs), Maximum	Swung Loa	nd 36.5 tonnes	(40.2 tons)				
Example Bucket Volume Bucket Weight			Target F at Exa Bucket	•	Maximun at Exa Bucket	nmple	at Ex	Density ample Weight	at Ex	m Density ample Weight	
m³	yd³	kg	lb	tonnes	tons	tonnes	tons	kg/m³	lb/yd³	kg/m³	lb/yd³
11.5	15	10 378	22,873	23.6	26.0	26.2	28.9	2056	3,465	2284	3,850
13.0	17	10 872	23,961	23.1	25.5	25.7	28.3	1780	3,000	1978	3,333
14.5	19	11 355	25,026	22.7	25.0	25.2	27.8	1563	2,634	1736	2,926

High Lift: Rated Payload 20.4 tonnes (22.5 tons), Maximum Swung Load 33.0 tonnes (36.4 tons)

Bucket \	Bucket Volume		Example Bucket Weight		Payload Imple Weight	Maximum at Exa Bucket	mple	at Exa	Target Density at Example Bucket Weight		n Density ample Weight
m³	yd³	kg	lb	tonnes	tons	tonnes	tons	kg/m³	lb/yd³	kg/m³	lb/yd³
11.5	15	10 378	22,873	20.4	22.5	22.7	25.0	1780	3,000	1978	3,333
13.0	17	10 872	23,962	20.0	22.0	22.2	24.5	1536	2,589	1707	2,877
14.5	19	11 355	25,026	19.5	21.5	21.7	23.9	1345	2,266	1494	2,518

Loose/Rehandled Application

Standard Li	ft: Rated Pa	ayload 27.2 to	nnes (30 tons), Maximum S	wung Load	39.7 tonnes (4	13.8 tons)				
Example Bucket Volume Bucket Weight		Target Payload at Example Bucket Weight		Maximum Payload at Example Bucket Weight		Target Density at Example Bucket Weight		Maximum Density at Example Bucket Weight			
m³	yd³	kg	lb	tonnes	tons	tonnes	tons	kg/m³	lb/yd³	kg/m³	lb/yd³
11.5	15	11 512	25,372	26.8	29.5	28.2	31.1	2213	3,730	2459	4,145
17.6	23	11 172	24,623	27.1	29.9	28.5	31.5	1461	2,462	1623	2,736
24.5	32	13 483	29,717	24.9	27.5	26.2	28.9	965	1,626	1072	1,807

High Lift: Rated Payload 24.5 tonnes (27 tons), Maximum Swung Load 37 tonnes (40.8 tons)

Bucket	Bucket Volume		Example Bucket Weight		Payload Imple Weight	Maximum at Exa Bucket	mpĺe	at Exa	Density ample Weight	at Exa	n Density ample Weight
m³	yd³	kg	lb	tonnes	tons	tonnes	tons	kg/m³	lb/yd³	kg/m³	lb/yd³
11.5	15	11 512	25,372	24.2	26.7	25.5	28.1	2000	3,372	2223	3,746
16.1	21	10 718	23,622	25.0	27.5	26.3	29.0	1473	2,483	1637	2,759
24.5	32	13 483	29,717	22.3	24.6	23.5	25.9	865	1,458	961	1,620

Operating Specifications – Standard Lift

			Standard Lift		
Bucket Type			Rock		
Ground Engaging Tool		Teeth & Segment			
Cutting Edge Type			Spade		
Bucket Part Number		536-3340	538-7980	557-8090	
Struck Capacity	m ³	9.0	10.0	12.0	
	yd^3	11.8	13.0	15.7	
Heaped Capacity (Rated)	m ³	11.5	13	14.5	
	yd^3	15	17	19	
Width	mm	4824	4824	4824	
	ft	15.8	15.8	15.8	
Dump Clearance at Full Lift and 45° Discharge (Edge)	mm	4985	4847	4752	
	ft	16.4	15.9	15.6	
Dump Clearance at Full Lift and 45° Discharge (With Teeth)	mm	4740	4630	4513	
	ft	15.6	15.2	14.8	
Reach at Lift and 45° Discharge (Edge)	mm	2160	2298	2379	
	ft	7.1	7.5	7.8	
Reach at Lift and 45° Discharge (With Teeth)	mm	2393	2503	2608	
	ft	7.9	8.2	8.6	
Reach with Lift Arms Horizontal and Bucket Level	mm	4939	5095	5252	
	ft	16.2	16.7	17.2	
Digging Depth	mm	206	206	217	
	in	8.1	8.1	8.5	
Overall Length	mm	15 334	15 490	15 654	
	ft	50.3	50.8	51.4	
Overall Height with Bucket at Full Raise	mm	9242	9390	9519	
	ft	30.3	30.8	31.2	
Loader Clearance Turning Radius (SAE Carry with Teeth)	mm	10 973	11 018	11 068	
	ft	36.0	36.1	36.3	
Full Dump Angle	degree	-50	-50	-50	

(chart continued on next page)

Operating Specifications – Standard Lift (continued)

			Standard Lift	
Bucket Type		Rock Teeth & Segment		
Ground Engaging Tool				
Cutting Edge Type			Spade	
Bucket Part Number		536-3340	538-7980	557-8090
Struck Capacity	m³	9.0	10.0	12.0
	yd^3	11.8	13.0	15.7
Heaped Capacity (Rated)	m^3	11.5	13	14.5
	yd^3	15	17	19
Static Tipping Load Straight (No Tire Squash)	kg	71 085	70 108	69 128
	1b	156,716	154,562	152,402
Static Tipping Load Straight (With Tire Squash)	kg	68 295	67 298	66 304
	1b	150,564	148,366	146,175
Static Tipping Load – Full Turn (Articulated 40°) (No Tire Squash)	kg	61 829	60 901	59 970
	1b	136,309	134,263	132,211
Static Tipping Load – Full Turn (Articulated 40°) (With Tire Squash)	kg	56 943	55 984	55 030
	1b	125,538	123,424	121,321
Breakout Force	kN	699	638	602
	1b	157,125	143,422	135,298
Operating Weight	kg	105 394	105 882	106 366
	1b	232,354	233,430	234,497
Weight Distribution at SAE Carry (Unloaded)				
Front	kg	59 137	59 994	60 865
	1b	130,374	132,265	134,185
Rear	kg	46 257	45 888	45 501
	1b	101,980	101,165	100,312
Weight Distribution at SAE Carry (Loaded)				
Front	kg	95 598	96 592	97 605
	1b	210,758	212,949	215,182
Rear	kg	32 929	32 423	31 894
	1b	72,595	71,481	70,314

(chart continued on next page)

Operating Specifications – High Lift

			High Lift	
Bucket Type		Rock Teeth & Segment		
Ground Engaging Tool				
Cutting Edge Type			Spade	
Bucket Part Number		536-3340	538-7980	557-8090
Struck Capacity	m ³	9.0	10.0	12.0
	yd^3	11.8	13.0	15.7
Heaped Capacity (Rated)	m ³	11.5	13	14.5
	yd^3	15	17	19
Width	mm	4824	4824	4824
	ft	15.8	15.8	15.8
Dump Clearance at Full Lift and 45° Discharge (Edge)	mm	5501	5363	5268
	ft	18.0	17.6	17.3
Dump Clearance at Full Lift and 45° Discharge (With Teeth)	mm	5256	5146	5029
	ft	17.2	16.9	16.5
Reach at Lift and 45° Discharge (Edge)	mm	2086	2225	2305
	ft	6.8	7.3	7.6
Reach at Lift and 45° Discharge (With Teeth)	mm	2319	2430	2535
	ft	7.6	8.0	8.3
Reach with Lift Arms Horizontal and Bucket Level	mm	5266	5422	5579
	ft	17.3	17.8	18.3
Digging Depth	mm	213	213	224
	in	8.4	8.4	8.8
Overall Length	mm	15 733	15 889	16 053
	ft	51.6	52.1	52.7
Overall Height with Bucket at Full Raise	mm	9759	9906	10 036
	ft	32.0	32.5	32.9
Loader Clearance Turning Radius (SAE Carry with Teeth)	mm	11 129	11 174	11 224
- ,	ft	36.5	36.7	36.8
Full Dump Angle	degree	-48	-48	-48

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Operating Specifications – High Lift (continued)

			High Lift		
Bucket Type		Rock			
Ground Engaging Tool			Teeth & Segment	t	
Cutting Edge Type			Spade		
Bucket Part Number		536-3340	538-7980	557-8090	
Struck Capacity	m^3	9.0	10.0	12.0	
	yd³	11.8	13.0	15.7	
Heaped Capacity (Rated)	m^3	11.5	13	14.5	
	yd^3	15	17	19	
Static Tipping Load Straight (No Tire Squash)	kg	64 263	63 375	62 482	
	lb	141,675	139,718	137,750	
Static Tipping Load Straight (With Tire Squash)	kg	61 929	61 023	60 116	
	1b	136,529	134,533	132,534	
Static Tipping Load – Full Turn (Articulated 40°) (No Tire Squash)	kg	55 718	54 869	54 017	
	1b	122,836	120,966	119,086	
Static Tipping Load – Full Turn (Articulated 40°) (With Tire Squash)	kg	51 499	50 622	49 747	
	1b	113,535	111,602	109,673	
Breakout Force	kN	672	613	578	
	1b	151,028	137,811	129,968	
Operating Weight	kg	105 934	106 422	106 906	
	1b	233,545	234,621	235,688	
Weight Distribution at SAE Carry (Unloaded)					
Front	kg	60 723	61 605	62 500	
	1b	133,870	135,816	137,788	
Rear	kg	45 212	44 817	44 407	
	1b	99,675	98,805	97,900	
Weight Distribution at SAE Carry (Loaded)					
Front	kg	94 150	95 139	96 143	
	1b	207,564	209,744	211,960	
Rear	kg	32 197	31 696	31 175	
	lb	70,981	69,877	68,729	

(chart continued on next page)

Operating Specifications – Standard Lift Material Handler/High Lift Material Handler

		Standard Lift Material Handler		High Lift Mat	erial Handler
Bucket Type		Rock	Coal	Rock	Coal
Ground Engaging Tool		BC	CE	BOCE	
Cutting Edge Type		Stra	aight	Stra	ight
Bucket Part Number		557-8050	557-8020	557-8050	557-8020
Struck Capacity	m^3	14.0	20.0	14.0	20.0
	yd^3	18.3	26.2	18.3	26.2
Heaped Capacity (Rated)	m^3	17.6	24.5	17.6	24.5
	yd^3	23	32	23	32
Width	mm	4995	6090	4995	6090
	ft	16.4	20.0	16.4	20.0
Dump Clearance at Full Lift and 45° Discharge (Edge)	mm	4873	4710	5389	5226
	ft	16.0	15.5	17.7	17.1
Dump Clearance at Full Lift and 45° Discharge (With Teeth)	mm	_	_	_	_
	ft	_	_	_	_
Reach at Lift and 45° Discharge (Edge)	mm	2301	2451	2227	2377
	ft	7.5	8.0	7.3	7.8
Reach at Lift and 45° Discharge (With Teeth)	mm	_	_		_
	ft	_	_		_
Reach with Lift Arms Horizontal and Bucket Level	mm	4780	5001	5107	5328
	ft	15.7	16.4	16.8	17.5
Digging Depth	mm	186	195	193	202
	in	7.3	7.7	7.6	8.0
Overall Length	mm	15 160	15 388	15 561	15 788
	ft	49.7	50.5	51.1	51.8
Overall Height with Bucket at Full Raise	mm	9678	9835	10 194	10 351
	ft	31.8	32.3	33.4	34.0
Loader Clearance Turning Radius (SAE Carry with Teeth)	mm	11 157	11 751	11 311	11 898
	ft	36.6	38.6	37.1	39.0
Full Dump Angle	degree	-50	-50	-48	-48

(chart continued on next page)

Operating Specifications – Standard Lift Material Handler/High Lift Material Handler *(continued)*

		Standard Lift M	laterial Handler	High Lift Mat	erial Handler
Bucket Type		Rock	Coal	Rock	Coal
Ground Engaging Tool		BOCE	BOCE	BOCE	BOCE
Cutting Edge Type		Straight	Straight	Straight	Straight
Bucket Part Number		557-8050	557-8020	557-8050	557-8020
Struck Capacity	m ³	14.0	20.0	14.0	20.0
	yd^3	18.3	26.2	18.3	26.2
Heaped Capacity (Rated)	m ³	17.6	24.5	17.6	24.5
	yd^3	23	32	23	32
Static Tipping Load Straight (No Tire Squash)	kg	74 070	70 667	67 126	63 913
	1b	163,296	155,794	147,987	140,905
Static Tipping Load Straight (With Tire Squash)	kg	70 958	67 574	64 519	61 316
	1b	156,435	148,975	142,239	135,177
Static Tipping Load – Full Turn (Articulated 40°)	kg	64 158	60 888	57 956	54 854
(No Tire Squash)	1b	141,443	134,235	127,770	120,933
Static Tipping Load – Full Turn (Articulated 40°)	kg	58 598	55 356	53 136	50 052
(With Tire Squash)	1b	129,187	122,038	117,145	110,345
Breakout Force	kN	640	572	614	549
	1b	143,788	128,559	138,121	123,370
Operating Weight	kg	108 182	110 493	108 722	111 033
	1b	238,501	243,595	239,692	244,786
Weight Distribution at SAE Carry (Unloaded)					
Front	kg	59 125	62 912	60 753	64 672
	1b	130,348	138,696	133,937	142,576
Rear	kg	49 057	47 581	47 969	46 362
	1b	108,153	104,899	105,754	102,210
Weight Distribution at SAE Carry (Loaded)					
Front	kg	102 525	106 661	101 271	105 481
	1b	226,029	235,147	223,263	232,546
Rear	kg	32 873	31 048	31 946	30 046
	1b	72,473	68,449	70,428	66,241

Standard and Optional Equipment

	Standard	Optional
POWER TRAIN		
Engine, C32B	✓	
Fuel priming pump (electric)	✓	
Ground-level engine shutdown	✓	
Engine air intake (above hood) precleaner	✓	
Aluminum Modular Radiator (AMR)	✓	
Automatic, ether starting aid	✓	
Electronic throttle lock	✓	
Impeller Clutch Torque Converter (ICTC) with lock-up clutch	✓	
Rimpull control system	✓	
Planetary powershift, 3F/3R electronic control transmission	✓	
Delayed engine shutdown	✓	
Oil-cooled, multi-disc, service brakes	✓	
Electro-hydraulic parking brake	✓	
Auto retarding controls	✓	
Advanced auto retarding controls with engine brake		✓
Brake temp estimator	✓	
Autoshift	✓	
LINKAGE		
Standard lift (23 tonnes/25.5 tons face, 27.2 tonnes/30 tons loose)	✓	
High lift (20.5 tonnes/22.5 tons face, 24.5 tonnes/27 tons loose)		✓
EFFICIENCY		
Variable displacement implement pumps	✓	
Variable displacement load-sensing steering	✓	
Variable displacement cooling fan pump	✓	
Torque converter lock-up clutch	✓	
Bucket float	✓	
Automatic bucket controls: - Lift kickout - Return-to-dig kickout	✓	
Default on-demand throttle (economy mode) with HP+ mode button	√	
Engine idle shutdown	√	

	Standard	Optional
ELECTRICAL AND LIGHTING		
150-amp alternator	✓	
Four 1400 CCA batteries	✓	
10/15 amp, 24V to 12V converter	✓	
Battery – single pole (master disconnect) isolator	✓	
Emergency jump-start receptacle	✓	
Starter and transmission lockout in bumper	✓	
24V starting and charging system	✓	
Electric starters	✓	
Dual pole battery isolator		✓
Live line indicators in service center	✓	
LED warning lights (pattern selectable)	✓	
LED lighting system: - Two front- and rear-mounted LED turn signals - Four forward-facing running lights - Three forward-facing flood lights - Four platform-mounted flood lights - Two forward-facing high beams - Four rear-facing floods - Four stairway lights - Two engine bay service lights	√	
Six service lights		✓
Two hitch-mounted lights		✓

Standard and Optional Equipment (continued)

	Standard	Optional
OPERATOR ENVIRONMENT		
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	✓	
Bonded glass, tinted	✓	
Rubber-mounted, high-impact resistant solar control glass		✓
Trainer seat	✓	
Trainer seat with suspension		✓
Dual-lever lift and tilt function controls	✓	
Joystick lift and tilt function controls		✓
Implement kickouts	✓	
Air conditioner	✓	
Cab pressure indicator	✓	
Graphical touchscreen information display conveys real-time operating information and payload measurement	✓	
Heater, defroster, auto temperature controls	✓	
Gauge instrumentation with configurable widgets: - Status indicators - Wheel rev counter - Simplified payload - TPMS (optional) - Bucket angle	√	

- Coolant temperature
- Hydraulic oil temperature
- Fuel level
- Power train oil temperature
- Engine speed (tachometer)
- Transmission gear
- Ground speed
- Engine hour meter

	Standard	Optional
OPERATOR ENVIRONMENT (continued)		
Powered cab precleaner	✓	
Operator presence status	✓	
Starting/charging system malfunction	✓	
Electronic OMM	✓	
Operator controls help	✓	
Bluetooth®-enabled machine security		✓
Two USB charging ports	✓	
CB mounting, 12V/24V power and antenna	✓	
14-pin service port	✓	
12V power	✓	
Selectable application profiles	✓	
Entertainment radio mute	✓	
Push-To-Start (PTS)	✓	
Warning/indicator instrumentation	✓	
Keypad control with indicator lights	✓	
Dome light in cab	✓	
Lunchbox and beverage holders	✓	
Electro-hydraulic force feedback steering	✓	
Sun screen, pull down (front and rear)		✓
Vital Information Management System	✓	
(VIMS TM) with information display:		
external data port, cycle timer		
AM/FM/AUX radio		✓
AM/FM/AUX/USB/BT/CD/SAT radio		✓
Coat hook	✓	

Standard and Optional Equipment (continued)

	Standard	Optional
SAFETY		
Ground-access ladders	✓	
Powered ground-access stairs		✓
Rear-vision camera	✓	
Side-vision cameras (270 degree)		✓
Cat Detect (rear object detection)		✓
Front walkway around cab	✓	
Tie-offs on ROPS	✓	
Steering frame lock	✓	
Wheel chocks		✓
Stairways on both sides of the machine	✓	
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		√
Fire suppression ready (tank mounting provision and provision for integration with machine electronics for monitoring faults or activation)		√
Emergency stop system		✓
Implement lock switch	✓	
Seatbelt warning	✓	
Entertainment radio mute	✓	
COLD WEATHER		
Cold-weather cooling fan bypass (recommended for temperatures below -29° C [-20° F])		✓
120V or 240V coolant heating elements (recommended in conditions from -18° C to -30° C [0° F to -22° F])		✓
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])		√
Heated mirrors		✓

	Standard	Optional
MACHINE CONTROL AND GUIDANCE		
Cat Payload with Overload Prevention		✓
MineStar Health ready	✓	
MineStar GUIDE ready		
MineStar Edge ready		
New Autodig Components:		✓
- Tire slip prevention		
– Lift stall prevention		
– Tire set		
Operator coaching		✓
COOLING		
Standard ambient package	✓	
(recommended for site conditions that		
do not exceed 43° C [110° F])		
High ambient package (recommended		\checkmark
for site conditions that do not exceed		
55° C [131° F])		
RIMS AND TIRES		
Rims $-914.4 \text{ mm } (36") (36 \times 45)$		✓
113.3 mm (4.5") flange		
For use with 45/65R45 and 45/65-45 tires		
Tires – 45/65R45		
Tires – 45/65-45		
SPARE RIMS		
914.4 mm (36") (36 × 45)		\checkmark
(4.5") flange		

Standard and Optional Equipment (continued)

	Standard	Optional		Standard	Optional
SERVICE			SERVICE (continued)		
Fluid level indicators:	✓		Implement pump efficiency monitoring	✓	
- Implement and cooling fan oil level			Rock guards on linkage grease lines	✓	
indicator – Steering and brake oil level indicator			Cat O-ring face seal couplings	✓	
Window washer fluid level indicator			Lockable service access doors	✓	
Transmission oil level indicatorFuel level indicatorEngine oil level indicator			Ecology drains for engine, radiator, hydraulic tank, steering and brake tank, brake cooling tank and axles	✓	
 Engine coolant level indicator Automatic lubrication system grease tank level indicator Starter lockout and LED Heavy-duty battery disconnect switch 			Electronic pressure control of the automatic lubrication system eliminates pressure adjustment and monitors grease thickness for temperature compatibility	✓	
- Stairway light switch			Ground-level fast-fill fuel system	✓	
 Service lighting switch (if equipped) 			Transmission and engine guards		✓
- Fuel shutoff engine shutdown switch			Drawbar hitch with pin	✓	
Engine oil fast-fill portTransmission oil fast-fill port			Cat XT TM hoses	✓	
- Steering and brake hydraulic oil			Left-side service center	✓	
fast-fill port			Oil sampling valves	✓	
- Steering and brake hydraulic oil drain port			Diagnostic lines for easy troubleshooting access		√
 Engine coolant fast-fill port Implement and cooling fan hydraulic oil fast-fill port Implement and cooling fan hydraulic 			Premixed 50% concentration of extended-life coolant with freeze protection to -34° C (-29° F)	✓	
oil drain port			Rear access to cab and service platform	✓	
- Automatic lubrication system grease			Load-sensing steering	✓	
tank fill port – 24V jump-start receptacle			Vandalism protection caplocks	✓	
- 24v jump-start receptacie - 12V power port			Cooling cleanout service access	✓	
 120V jacket water plug (if equipped) 240V jacket water plug (if equipped) 			Telematics and Cat Electronic Technician service port in bumper	✓	
– VIMS key switch			Product Link™ cellular		√
- 14-pin service port - Transmission lockout and LED			Product Link (dual mode – satellite/cellular)		√
In-tank mounted cartridge-type case drain filters with in-line magnetic plugs	✓		Automatic Autolube filling shutoff valve	✓	
on implement, cooling fan, brake and			SOUND		
steering pumps			Sound-suppression package		✓
High-pressure screens on the output side	✓		LOAD AND CARRY OR EXTENSIVE TRAMMING	i	
of implement, cooling fan, brake and steering pumps			Ride control		✓

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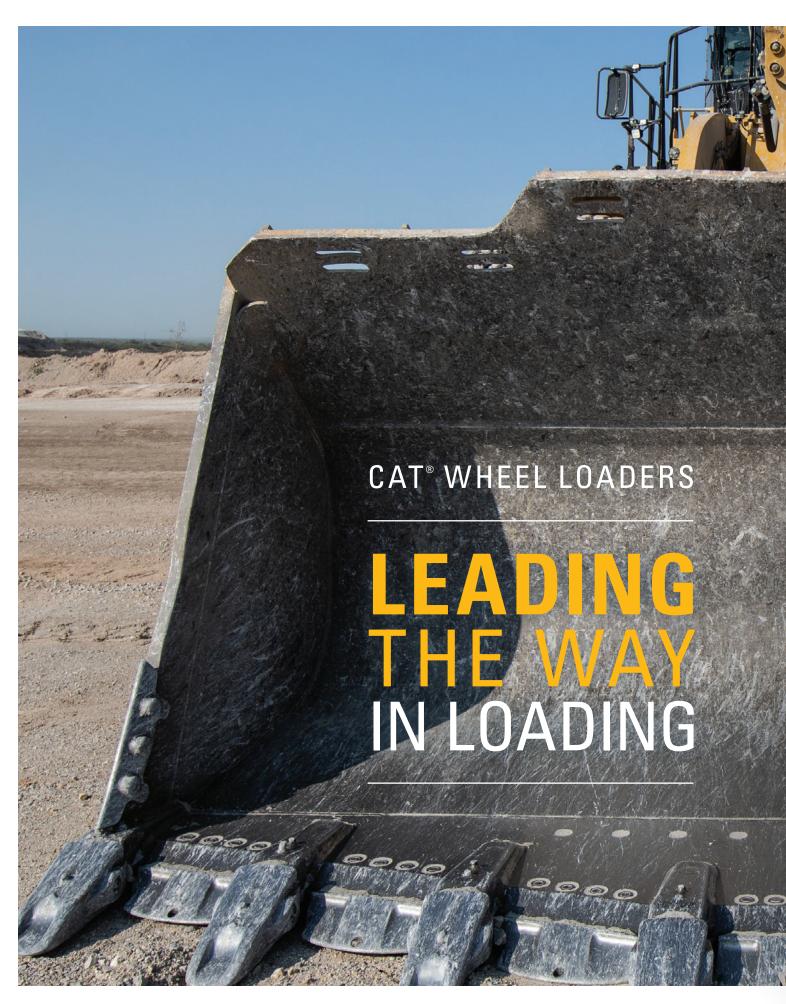
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AEXQ2899-02 (06-2021) Replaces AEXQ2899-01 Build Number: 12A (Global)



992 WHEEL LOADER 607 kW (814 hp) 105 882 kg (233,430 lb) 11.5-24.5 m³ (15-32 yd³) **Net Power:** Operating Weight: Bucket Capacities:







SETTING THE STANDARD. THEN RAISING THE BAR.

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—significantly increasing efficiency, boosting productivity with no increase in fuel usage, and ensuring you get maximum value from your investment.

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.

The new 992 helps operators work more comfortably and productively, with safer access and egress, increased visibility, familiar controls, and a next-generation cab that creates a technology-enabled, high-efficiency operator experience. And it's factory-ready for new technologies that increase performance and efficiency, enhance safety and improve machine health.

With both standard and high-lift configurations, the 992 offers the ideal pass match for fleets of Cat 775, 777 and 785 trucks.

UP TO 32% MORE PRODUCTIVE

- » Higher rated payload
- » 9.5% more rimpull
- » 20% more breakout force
- » Up to 10% increase in bucket fill factor

UP TO 10% LESS MAINTENANCE COST

- » 20% increase in component life
- » Tire slip prevention
- » Automatic retarding controls

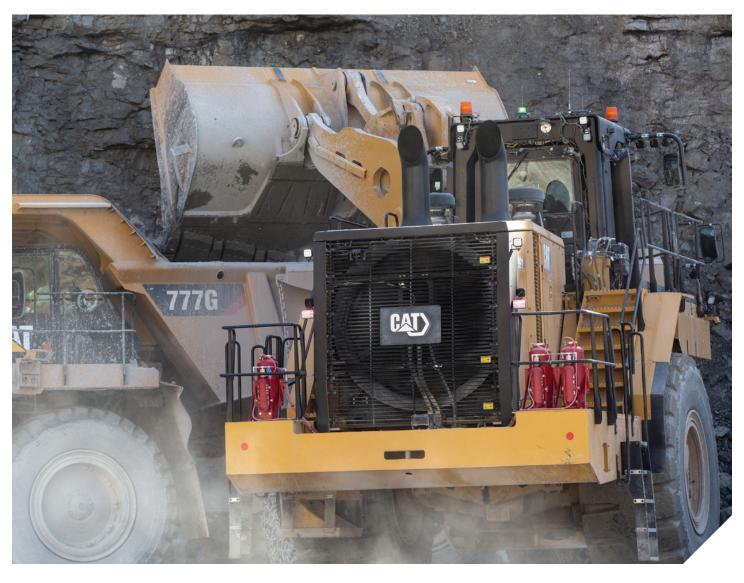
UP TO 48% MORE EFFICIENT

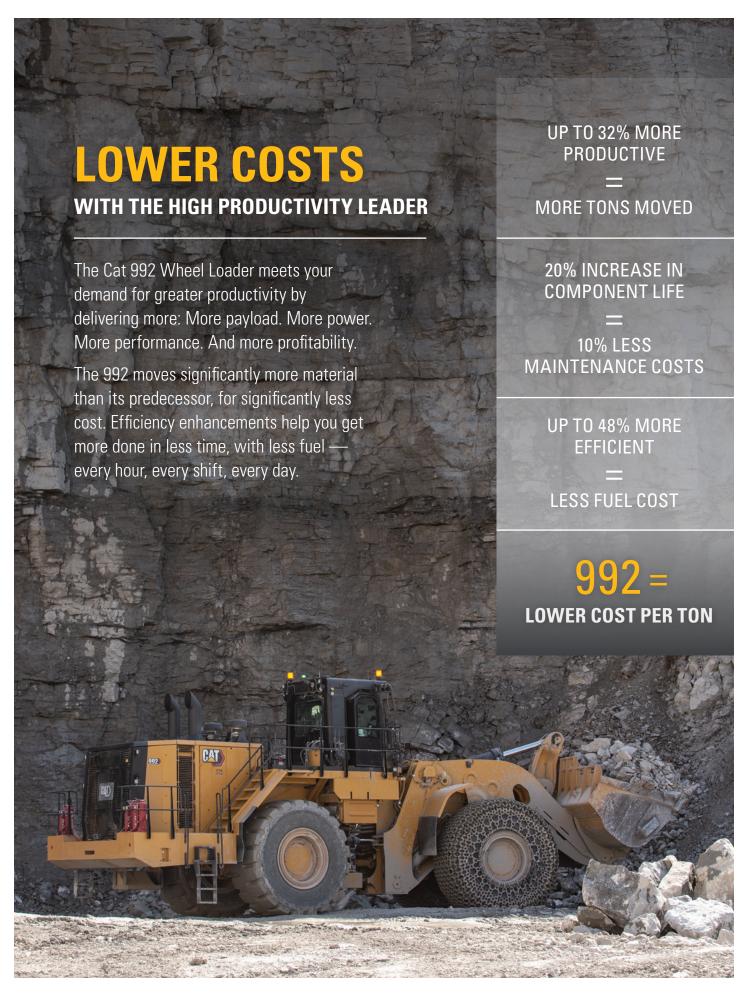
» Increased productivity with zero increase in fuel burn

CONFIDENT & EMPOWERED OPERATORS

- » New Autodig Components
- » Operator Coaching
- » Electro-hydraulic force feedback steering
- » 10% greater visibility
- » 50% increase in leg room
- » 3 large, color LED display screens

All information is in comparison to the Cat 992K.





TIRE SLIP & TIRE SET

The Tire Slip Prevention feature 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 automatically applies a lift command at the optimal time to increase traction on the tire, allowing for an increase in usable rimpull. These features improve tire life, productivity and efficiency by automating the most difficult parts of the dig cycle in all digging conditions — in both tough digging and re-handled material.

LIFT STALL PREVENTION

Lift Stall Prevention automatically applies the impeller clutch when necessary to prevent hydraulic stall when lifting up through the face. This improves productivity and efficiency by keeping the lift motion continuous, without excessive use of the impeller clutch.

FAST CYCLES

The 992's Positive Flow Control Hydraulic System boosts efficiency with concurrent pump and valve control. By optimizing pump control, hydraulic oil flow is proportionate to implement lever movement. Fast, productive cycles are enabled by four electronically controlled, fully variable piston pumps. The system also increases bucket feel and control and delivers consistent performance and efficiency with lower system heat.

ADVANCED TECHNOLOGIES

992 systems work hard to save you fuel through advanced technologies. The on-demand throttle feature enables maximum productivity and efficiency, with the option of using Horsepower Plus Mode. Utilizing the on-demand throttle, operators maintain normal operation with the left pedal and implements while the 992 manages the engine speed.

OPTIMIZED LINKAGE DESIGN

The 992 features an all-new Z-bar linkage that is optimized for performance and efficiency using multi-disciplinary design optimization. In addition, an automatic lubrication system features a robust control system and guarding.

PAYLOAD OVERLOAD PREVENTION

Payload Overload Prevention gives you the confidence to use a large enough bucket to achieve the target pass match—and therefore productivity—across a density range, without introducing the risk of overload. The overload value can be adjusted based on your target payload to any value using the service password. This feature can be configured to either stop or slow the lift arms when the overload value is exceeded.

992 VS. PREVIOUS MODEL

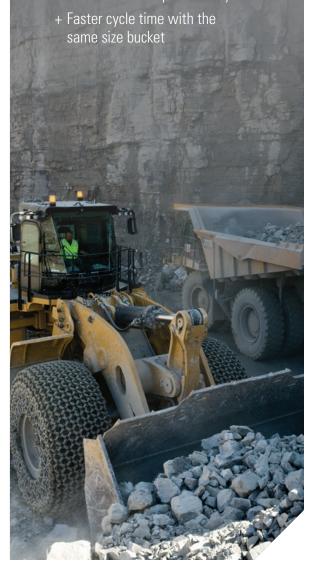
IMPROVEMENTS IN RIMPULL AND BREAKOUT FORCE

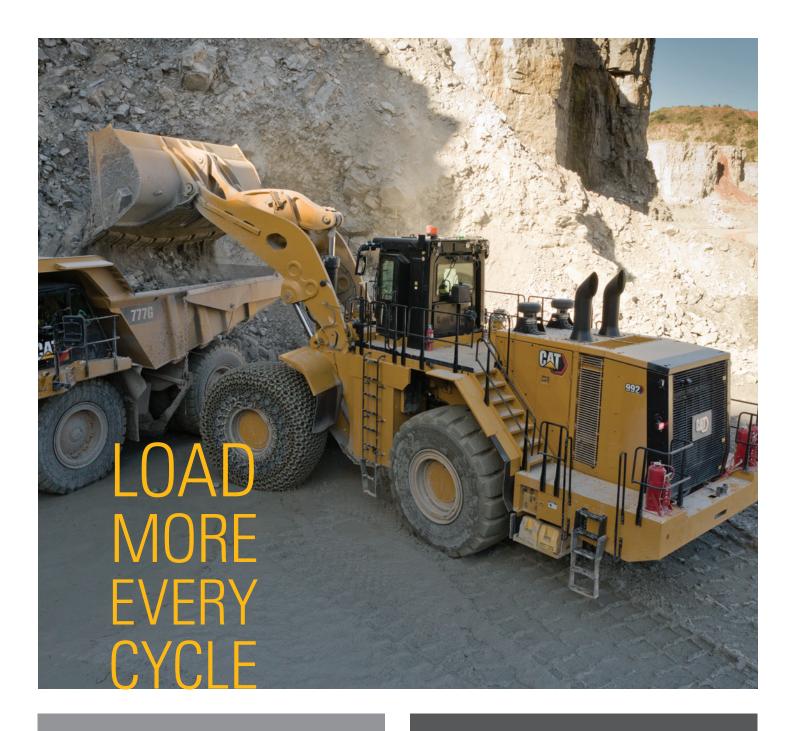
Reducing number of passes from 5 to 4 when loading Cat 777:

- + 25% increase in productivity
- + Same cycle time with a larger bucket

Currently 4-pass loading Cat 777:

+ 15% increase in productivity





BIGGER PAYLOAD

The new 992 may not be bigger than its predecessor — but its payload is. Because the machine is heavier, it provides increased stability for a wider bucket capacity range that allows for a 4-pass match to a 90.7-tonne (100-ton) truck in all applications.

BETTER DIGGING

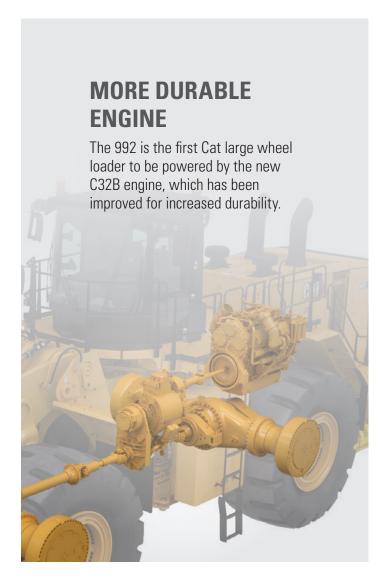
The 992 delivers 20% more breakout force compared to previous models, with no increase in cycle time. This increase combines with a 9.5% boost in rimpull and increased traction to make the 992 an excellent digger.

SUPERIOR LOADING

The 992 is available with Cat Performance Series Buckets, which represent a unique loading system that delivers optimum machine performance in production-oriented applications like truck loading, stockpiling and load-and-carry.

These buckets deliver:

- + Easier, faster loading even by less-experienced operators
- + Significantly increased fill factors, resulting in fewer passes per truck and more loads per day
- + Increased material retention inside the bucket
- + Enhanced sight lines to the pile and into the bucket
- + Larger bucket volume for increased payload
- + Better bucket and machine stability due to the payload being lower and closer to the machine





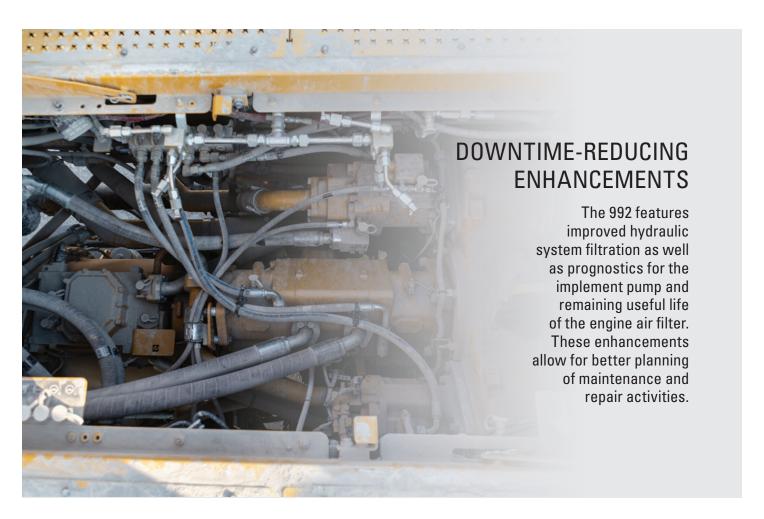


SPEND MORE TIME LOADING & LESS TIME SERVICING

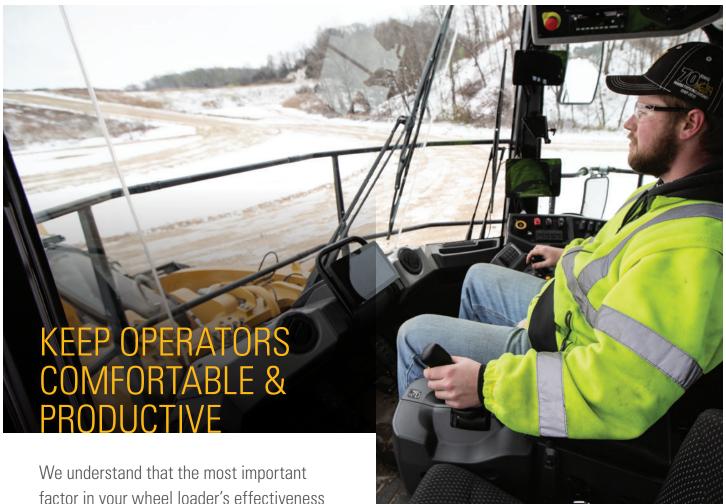
The 992 was designed to reduce the time you spend on regular maintenance procedures, reducing maintenance costs up to 10%. The standard VIMS™ monitoring system delivers critical health and payload information, keeping performance at optimum levels and allowing advanced troubleshooting and planning to lower maintenance costs.

- + Ground-level or platform access for all filters and grouped service points enable safe and convenient service.
- + Front walk-around enables easier window cleaning.
- + A standard, comprehensive filtration system maintains clean fluids to enable high component reliability.
- + A 20% increase in component life means greater component rebuild intervals.
- + Swing-out doors on both sides of the engine compartment provide easy access to important daily service checks.

- + Remote Flash capabilities reduce downtime by providing immediate access to the latest software updates.
- + The VIMS system reduces downtime by sending notifications that allow operators and technicians to resolve problems before failure.
- + Improved access to the cooling package makes cleaning faster and easier.
- + High-pressure screening system prevents catastrophic system damage in the event of a hydraulic component failure.
- + Ecology drains make service easier and help prevent spills.
- + Modular design allows for improved access for engine and pump drive service.
- + All routine service is located on the left side.
- + The automatic lubrication system greases the linkage, hitch, steering and axle trunnion bearings.
- + Electronic pressure control of the automatic lubrication system eliminates pressure adjustment and monitors grease thickness for temperature compatibility.
- + Axle oil cooler was moved to a lower debris area.
- + Fuel lines are rerouted through the engine to mitigate fuel gelling risk.







We understand that the most important factor in your wheel loader's effectiveness is the performance of its operator. To help make their workday as productive as possible, we've incorporated productivity, safety and comfort features into the all-new 992 operator cab.

DESIGNED FOR CONFIDENCE

Confident loader operation starts with precise machine control enabled by the 992's load-sensing electro-hydraulic force feedback steering system. The system helps operators achieve precise positioning for easy loading in tight areas with 40 degrees of steering articulation. Integrated steering and transmission control functions enhance comfort.

DESIGNED FOR COMFORT

The 992 operator environment includes dozens of features designed to enhance comfort and decrease fatigue, such as reduced vibration, low sound levels and automatic temperature controls. Electrohydraulic speed-sensing steering with force feedback provides shift-long comfort. We've increased leg room in all directions and increased the width by the operator's knees. The pressurized cab features a 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. The cab also includes a larger trainer seat with optional suspension.

DESIGNED FOR PRODUCTIVITY

The 992's electro-hydraulic force feedback steering system combines directional selection, gear selection and steering into a single lever — for maximum responsiveness and control. A simple side-to-side motion turns the machine right or left, and the finger-controlled gear selection is easy to operate and minimizes operator movements.

Low-effort integrated controls make cycles smoother and faster while reducing operator fatigue. The next generation implement control pod maintains the familiar single axis lever while adding an implement joystick control. Implement pods feature keypads that provide convenient access to commonly used functions.

Electro-hydraulic controls help operators work more efficiently and productively. The soft detent controls are easy to use, and electronically controlled hydraulic cylinder stops boost comfort. Operators can conveniently set automatic implement kickouts from inside the cab.





DESIGNED FOR EFFICIENCY

The 992's next generation cab creates a technology-enabled, high-efficiency operator experience. The cab features large, easy-to-read, color displays that provide access to the Electronic Operation & Maintenance Manual.

Operator coaching and assist features take efficiency and productivity to the next level. Operator coaching helps empower operators to exceed productivity and efficiency targets by measuring and providing feedback to reinforce proper operating techniques. New Autodig Components offer automation features that provide additional improvements in efficiency.

- + New Autodig Components boost efficiency and reduce tire wear by automating critical parts of the digging cycle.
- + Payload Overload Prevention inhibits severe payloads from being raised to full truck height. The feature can be set to stop or slow down the lift function when a configurable payload is exceeded.

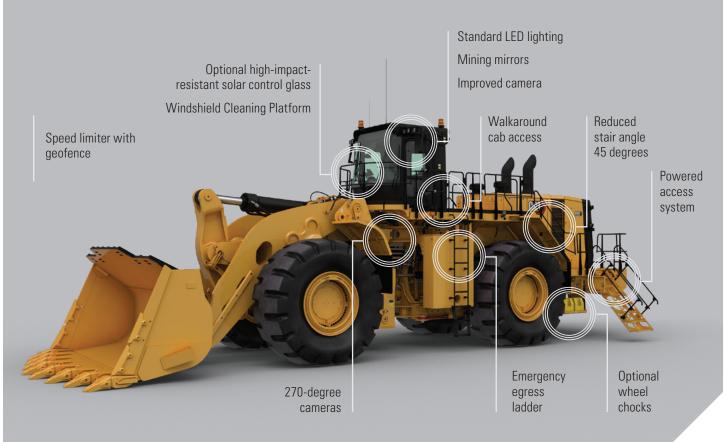


From slip-resistant surfaces and guard rails to state-of-the-art object detection technologies, the 992 is infused with features to help both operators and service personnel feel safe and confident on the job. We've improved access and egress, maximized visibility and made it possible to perform more service from the ground.



SAFER ACCESS AND EGRESS

An integrated powered access system allows easier access to the primary stairs by improving ingress and egress to and from the rear platform. For hanging steps, we've made it possible to adjust the lowest rung. Wide stairs are at a 45-degree angle for easy access and feature full handrails on each side. Stairs may be raised and lowered from cab level or the ground. Wide walkways with non-skid surfaces and integrated lockout/tagout points are designed into the service areas.



THE RIGHT LOADER FOR YOUR APPLICATION

The 992 offers a number of options to expand its application range and versatility, making it the ideal loading tool no matter the site conditions.

A high ambient package is available to equip the loader for operation in temperatures as high as 55 degrees C / 131 degrees F. The standard cooling package (up to 43 degrees C / 109.4 degrees F) offers improved cooling compared to the previous model. A standard demand fan improves efficiency and cooling performance.

The 992 is also ideal for cold weather applications, with a cooling fan bypass (recommended below -29 degrees C / -20 degrees F); 120V or 240V coolant heating elements and a fuel heater (recommended in conditions ranging from -18 to -30 degrees C / 0 to -22 degrees F; 240V engine oil (recommended below -18 degrees C / 0 degrees F); and heated mirrors.



PERFORMANCE SERIES BUCKETS

New Performance Series Buckets in a wide range of capacities are optimized for the 992 linkage kinematics. The new bucket design has an extended floor, larger radius and angled side bars for fast loading, larger bottom box section for increased strength, high fill factors and good material retention. In addition, a taller side plate with a level top surface improves operator visibility to the bucket from the cab.

Fill factors are up to 115% so your operators can get the job done and move on to other tasks. Fast load cycles and fewer trips mean less wear and tear on your machine. Buckets come in different capacities and widths to fit your loading and carrying needs.

Z-BAR LIMESTONE BUCKET

This bucket is used in high-abrasion production applications like face loading limestone and other rock, and trucking a wide range of quarry materials. The newly designed Z-bar limestone bucket features an increased shell thickness (+25%) and increased plate thickness (+16%) for longer fatigue life, side bar protectors, a bolt-on rear wear plate, and a weld-on center wear plate.

HEAVY-DUTY ROCK BUCKETS

These buckets are used in applications like face loading tightly compacted pit materials or handling materials of moderate abrasion and high impact.

COAL BUCKETS

Coal buckets are built for light density nonabrasive materials

IRON ORE BUCKETS

These buckets are used in extremely aggressive applications like face loading iron ore. They are built for high abrasion and moderate impact, leaving a smooth floor when finished.

LOW TO MODERATE DIGGING RESISTANCE APPLICATIONS

The 992 Wheel Loader is approved for higher payloads in low to moderate digging resistance applications. Increased payload is intended for rehandled material in the ROM pad area or stockpile material, such as coal. In these applications, 992 standard lift payload has been increased from 25.5 tons to 30 tons (23.1 tonnes to 27.2 tonnes). High lift payload has been increased from 22.5 tons to 27 tons (20.4 tonnes to 24.5 tonnes). Please contact your local dealer to determine if your application is suitable for this increased rated payload.



GROUND ENGAGING TOOLS

Cat Ground Engaging Tools (GET) for the 992 protect expensive components, help you get the most out of your machine's performance and reduce your operating costs. Cat GET feature CapSure™ Retention Technology, which simplifies component replacement with hammerless retention for fast, easy and safe installation. CapSure tips, shrouds and sidebar protectors are easily locked and unlocked with a 180-degree turn of a 3/4-inch drive ratchet.



ENHANCED POWERTRAIN

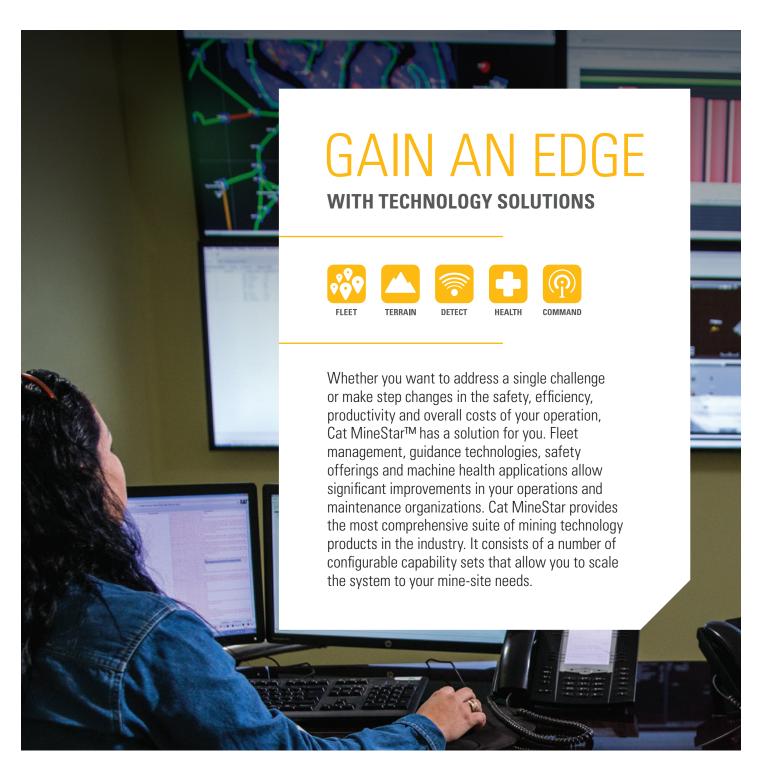
The 992 features a number of powertrain improvements that help increase life and boost machine availability. Enhancements include:

- + 20% increase in Planned Component Replacement (PCR) 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
- + Increased hardness on Output Transfer Gears (OTG)
- + New C32B engine for improved durability

BUILT TO BE REBUILT

The 992 is one of the most rebuilt products in the Cat machine lineup. The frame, powertrain, engine and components are all built to be rebuilt—using new, remanufactured or rebuilt parts and components—so you can take advantage of multiple lives of like-new performance at a fraction-of-new price. Reused or remanufactured components can deliver a cost savings ranging from 40%-70%.







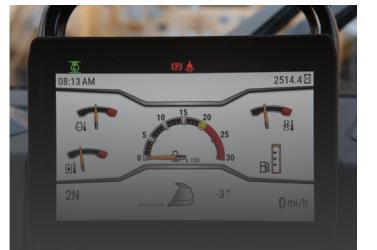
OBJECT DETECTION

Mobile equipment operators need to be keenly aware of their environment, especially when putting their equipment into motion. Cat MineStar Object Detection combines radar and camera systems to warn operators about light vehicles or stationary hazards within the immediate vicinity of their machines. Available for the 992, the system improves operator awareness and enhances safety all around your site.

Object Detection is designed to increase safety and visibility during machine startup, initial movement and always in reverse. When radars are active, the system alarms only when the wheel loader is in gear and in the direction of a detected object. The radars are always active in reverse. Once the wheel loader reaches a speed threshold or distance traveled (customerconfigured option), the radars enter a standby state. The system is configurable for continuous and discrete alarming methods.

TERRAIN FOR LOADING Mine site output depends on efficient loading

Mine site output depends on efficient loading and hauling. MineStar Terrain for loading makes those operations more productive while providing accurate feedback to key personnel. It shows wheel loader operators the type of material and the exact volume that is being loaded into trucks and crushers. Real-time feedback on payloads and design plan progress helps managers track materials and plan future operations. It increases productivity and accuracy, reduces rework, enhances ore control and improves shift-to-shift operator performance.



INTEGRATED ELECTRONICS

The Cat 992 is integrated with electronics that provide flexible levels of information to both the site and the operator. This integration creates a smart machine and more informed operator, maximizing the productivity of both.

INFORMATION DISPLAY

An upgraded touchscreen information display provides intuitive operation and easy navigation. It keeps operators informed about machine systems to decrease service time.

CAT PRODUCT LINK™

Product Link takes the guesswork out of asset management by providing remote access to information through the easy-to-use VisionLink® interface. You'll be able to stay informed on machine systems and diagnostic codes; track utilization, fuel usage and payload summaries; and have access to machine location, service meter hours and reporting status.

VITAL INFORMATION MANAGEMENT SYSTEM (VIMS)

VIMS allows you to connect directly to the machine for access to a wide range of sensor information and enhanced machine data. You can create productivity reports with payload and work cycle segmentation; identify operator training needs through productivity data; access detailed data logging of machine parameters and diagnostic codes; and track machine sensor information with trend analysis and histograms to monitor machine health.





Our commitment to your success doesn't end when your Cat 992 begins loading overburden or ore. We immediately start looking for ways to make your wheel loader work more efficiently, safely and productively. From addressing performance issues, to training operators and technicians, to calibrating onboard technologies — our support of your loader productivity is ongoing.

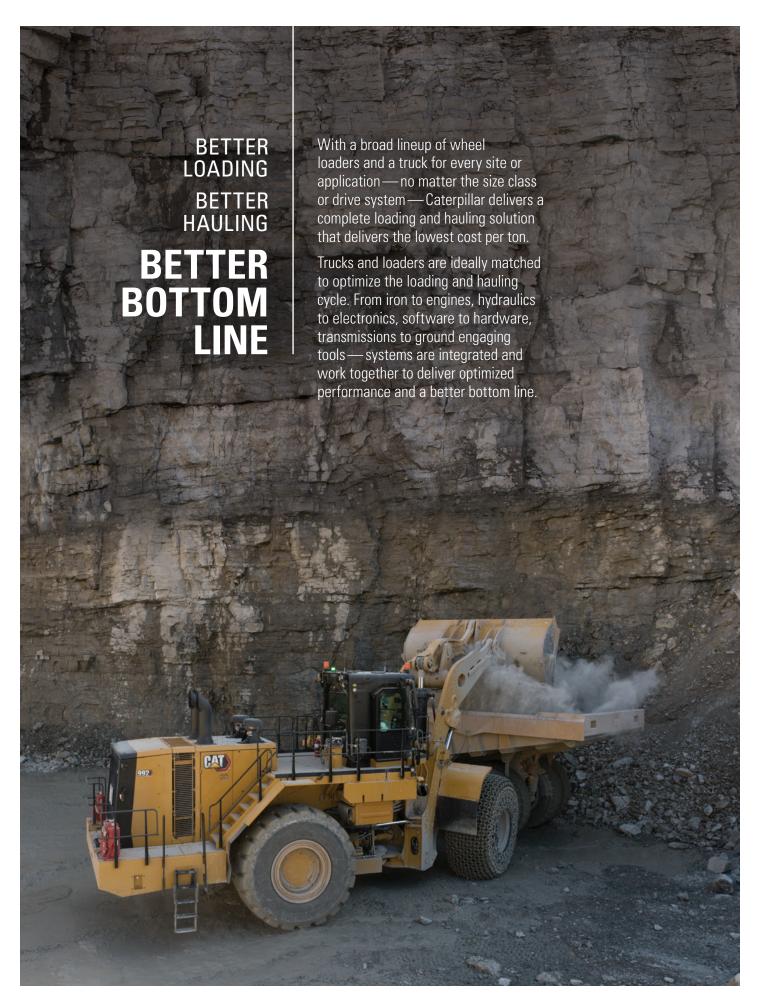
Caterpillar and Cat dealer personnel will partner with you on site to improve the performance not only of your loaders, but of your overall loading and hauling operation. You'll have access to parts and service, and technicians who are focused on helping you optimize repairs to keep machines productive. And we help with training to ensure your operators have the skills and knowledge they need to work as efficiently and productively as possible.

We also work alongside you to ensure you achieve maximum value throughout the life of your equipment. Together with our Cat dealer network, we customize service offerings to provide a maintenance solution that fits your operation—whether you want to perform the majority of service yourself, or you're looking for an onsite partner to manage your maintenance organization. We're also consultants who can help you make smart decisions about buying, operating, maintaining, repairing, rebuilding and replacing equipment.

YOUR PARTNER FOR THE COMPLETE EQUIPMENT LIFECYCLE

No one knows more about how to get the most from a piece of Cat equipment than your local Cat dealer. This one-of-a-kind, on-the-ground support network delivers expert service, integrated solutions, after-sales support, fast and efficient parts fulfillment, world-class rebuild and remanufacturing capabilities, and more.

Cat dealers operate as nearly 200 local businesses — each one fully embedded in and committed to the geographic area it serves. That means you work with people you know, who know your business, and who respond on your timeframe.









*-7

*with material handler package

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

	ENGINE		
Engine Model		Cat® C32B	
-		ier 4 Final, Equivalent	
Rated Speed		1,750 rpm	
Gross Power – SAE J1995 @ 1,7	750 rpm		
Tier 4/HRC (Highly Regi Country) – Standard	ulated	671 kW	900 hp
Tier 4/HRC – High Ambient		699 kW	937 hp
Tier 2/LRC (Less Regula Country) – Standard	ated	676 kW	907 hp
Tier 2/LRC – High Ambient		704 kW	944 hp
Gross Power – ISO 14396 @ 1,7	50 rpm		
Tier 4/HRC – Standard		659 kW	884 hp
Tier 4/HRC – High Ambi	ent	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 Ambi	ent	607 kW	814 hp
Tier 2/LRC – Standard		614 kW	823 hp
Tier 2/LRC – High Ambi	ent	614 kW	823 hp
Bore		145 mm	5.7 in
Stroke		162 mm	6.4 in
Displacement		32.1 L	1,963.5 in ³
Peak Torque – SAE J1995			
Tier 4/HRC – Standard	@ 1,200 rpm	4765 N⋅m	3,514 lbf-ft
Tier 4/HRC – High Ambi	ent @ 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 Ambi	ent @ 1,350 rpm	4841 N⋅m	3,570 lbf-ft

OPERA	TING 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 yd³			
Cat Truck Match – Standard	775/777/785				
Cat Truck Match – High Lift	777/785				
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	8.0 mph			
Direct Drive – Forward 3	22.6 km/h	14.0 mph			
Reverse 1	7.5 km/h	4.7 mph			
Reverse 2	13.0 km/h	8.1 mph			
Reverse 3	22.4 km/h	13.9 mph			
Direct Drive – Reverse 1	8.0 km/h	5.0 mph			
Direct Drive – Reverse 2	14.2 km/h	8.8 mph			
Direct Drive – Reverse 3	24.7 km/h	15.3 mph			
HYDRAU	ILIC 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/T	ilt 34 500 kPa	5,000 psi			
Lift Cylinder – Bore	235.0 mm	9.3 in			
Lift Cylinder – Stroke	1613 mm	63.5 in			

292.1 mm

1055 mm

11.5 in

41.5 in

Tilt Cylinder – Bore

Tilt Cylinder – Stroke

STANDARD AND OPTIONAL EQUIPMENT

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

POWER TRAIN		
	Standard	Optional
Engine, C32B	Х	
Fuel priming pump (electric)	Х	
Ground-level engine shutdown	Х	
Engine air intake (above hood) precleaner	Х	
Aluminum Modular Radiator (AMR)	Х	
Automatic, ether starting aid	Х	
Electronic throttle lock	Х	
Impeller Clutch Torque Converter (ICTC) with lock-up clutch	Х	
Rimpull control system	Х	
Planetary powershift, 3F/3R electronic control transmission	Х	
Delayed engine shutdown	Х	
Oil-cooled, multi-disc, service brakes	Х	
Electro-hydraulic parking brake	Х	
Auto retarding controls	Х	
Advanced auto retarding controls with engine brake		Х
Brake temp estimator	Х	
Autoshift	Х	

ails				
LINKAGE				
	Standard	Optional		
Standard lift (23 tonnes/25.5 tons face, 27.2 tonnes/30 tons loose)	х			
High lift (20.5 tonnes/22.5 tons face, 24.5 tonnes/27 tons loose)		Х		
EFFICIENCY				
	Standard	Optional		
Variable displacement implement pumps	х			
Variable displacement load-sensing steering	Х			
Variable displacement cooling fan pump	х			
Torque converter lock-up clutch	х			
Bucket float	х			
Automatic bucket controls: + Lift kickout + Return-to-dig kickout	х			
Default on-demand throttle (economy mode) with HP+ mode button	Х			
Engine idle shutdown	Х			
MACHINE CONTROL AND GUIDANCE				
	Standard	Optional		
Cat Payload with Overload Prevention		х		
MineStar Health ready MineStar GUIDE ready MineStar Edge ready	х			
New Autodig Components:		х		

+ Tire slip prevention + Lift stall prevention

+ Tire set
Operator coaching



WHEEL LOADER

For more complete information on Cat products, dealer services and industry solutions, visit us 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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