



# 982M

## Wheel Loader

# Technical Specifications

### Engine – (Tier 3/Stage IIIA equivalent)<sup>1</sup>

Engine Model	Cat® C13	
Maximum Power (1,800 rpm)		
SAE J1995	307 kW	412 hp
Maximum Power @ 1,800 rpm		
ISO 14396	303 kW	406 hp
Maximum Net Power (1,800 rpm)		
SAE J1349	278 kW	373 hp
Maximum Net Power (1,800 rpm)		
ISO 9249	278 kW	373 hp
Peak Gross Torque (1,300 rpm)		
SAE J1995	2192 N·m	1,617 lbf-ft
Peak Gross Torque (1,300 rpm)		
ISO 14396	2172 N·m	1,602 lbf-ft
Maximum Net Torque (1,000 rpm)	2040 N·m	1,505 lbf-ft
Bore	130 mm	5.12 in
Stroke	157 mm	6.18 in
Displacement	12.5 L	763 in <sup>3</sup>

<sup>1</sup> Meets Brazil MAR-1, UN ECE R96 Stage IIIA, and China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.

### Buckets

Bucket Capacities	4.6-12.0 m <sup>3</sup>	6.0-15.75 yd <sup>3</sup>
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### Weight

Operating Weight	35 563 kg	78,402 lb
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- Weight based on a machine configuration with Bridgestone 875/65R29 VLTS L4 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link™, open differential axles (front/rear), secondary steering, sound suppression, and a 6.1 m<sup>3</sup> (8.0 yd<sup>3</sup>) general purpose bucket with BOCE.

### Operating Specifications

Static Tipping Load – Full 40° Turn		
With Tire Deflection	21 080 kg	46,473 lb
No Tire Deflection	22 393 kg	49,368 lb
Breakout Force	260 kN	58,450 lbf

- Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

### Engine – (Tier 4 Final/Stage V)<sup>2</sup>

Engine Model	Cat C13	
Maximum Power (1,700 rpm)		
SAE J1995	325 kW	436 hp
Maximum Power (1,700 rpm)		
ISO 14396	321 kW	430 hp
Maximum Net Power (1,700 rpm)		
SAE J1349	297 kW	398 hp
Maximum Net Power (1,700 rpm)		
ISO 9249	297 kW	398 hp
Peak Gross Torque (1,200 rpm)		
SAE J1995	2206 N·m	1,627 lbf-ft
Peak Gross Torque (1,200 rpm)		
ISO 14396	2182 N·m	1,609 lbf-ft
Maximum Net Torque (1,100 rpm)	2054 N·m	1,515 lbf-ft
Bore	130 mm	5.12 in
Stroke	157 mm	6.18 in
Displacement	12.5 L	763 in <sup>3</sup>

<sup>2</sup> Meets U.S. EPA Tier 4 Final, either EU Stage V or EU Stage IV\*, Japan 2014 Tier 4 Final emission standards.

- \* Stage IV engines comply with the transition provisions of the EU nonroad emission regulation.
- The power ratings apply at the stated speed when tested under the reference conditions for the specified standards.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and aftertreatment.
- The gross power advertised is with the fan at maximum speed.



# 982M Wheel Loader Specifications

## Transmission

Forward 1	6.2 km/h	3.9 mph
Forward 2	11.9 km/h	7.4 mph
Forward 3	21.1 km/h	13.1 mph
Forward 4	37.5 km/h	23.3 mph
Reverse 1	7.0 km/h	4.3 mph
Reverse 2	13.6 km/h	8.5 mph
Reverse 3	24.1 km/h	15.0 mph
Reverse 4	39.5 km/h	24.5 mph

- Maximum travel speed in standard vehicle with empty bucket and standard L4 tires with 914 mm (36 in) roll radius.

## Hydraulic System

Implement Pump Type	Variable Displacement Piston	
Implement System		
Maximum Pump Output (2,250 rpm)	449 L/min	119 gal/min
Maximum Operating Pressure	34 300 kPa	4,975 psi
Optional 3 <sup>rd</sup> Function Maximum Flow	240 L/min	63 gal/min
Optional 3 <sup>rd</sup> Function Maximum Pressure	21 780 kPa	3,159 psi
Hydraulic Cycle Time with Rated Payload:		
Raise from Carry Position	5.3 Seconds	
Dump, at Maximum Raise	1.7 Seconds	
Lower, Empty, Float Down	3.1 Seconds	
Total	10.1 Seconds	

## Brakes

Brakes	Brakes meet ISO 3450:2011 standards
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## Axles

Front	Fixed
Rear	Oscillating $\pm 13$ degrees
Maximum Single-Wheel Rise and Fall	571 mm 1'10"

## Cab

ROPS/FOPS	ROPS/FOPS meet ISO 3471:2008 and ISO 3449:2005 Level II standards
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## Service Refill Capacities

Fuel Tank	426 L	112.5 gal
DEF Tank	21 L	5.5 gal
Cooling System (Tier 4/Stage V)	53 L	14.0 gal
Cooling System (Tier 3/Stage IIIA equivalent)	45 L	12.0 gal
Crankcase	37 L	9.8 gal
Transmission	77 L	20.3 gal
Differentials and Final Drives – Front	92 L	24.3 gal
Differentials and Final Drives – Rear	92 L	24.3 gal
Hydraulic Tank	153 L	40 gal

## Sound – Tier 3/Stage IIIA equivalent

The sound values indicated below are for specific operating conditions only. Machine and operator sound levels will vary at different engine and/or cooling fan speeds. Hearing protection may be needed when the machine is operated with a cabin that is not properly maintained, or when the doors and/or windows are open for extended periods or in a noisy environment.

Operator Sound Pressure Level (ISO 6396:2008)	75 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	112 dB(A)*
Exterior Sound Pressure Level (SAE J88:2013)	78 dB(A)**

\*For a typical machine configuration, measured according to the procedures specified with the cooling fan speed set at maximum value.

\*\*For a typical machine configuration, measured according to the procedures specified. The measurement was conducted under the following conditions: distance of 15 m (49.2 ft), moving forward in second gear ratio with the cooling fan speed set at maximum value.

## Sound – Tier 4 Final/Stage V

The sound values indicated below are for specific operating conditions only. Machine and operator sound levels will vary at different engine and/or cooling fan speeds. Hearing protection may be needed when the machine is operated with a cabin that is not properly maintained, or when the doors and/or windows are open for extended periods or in a noisy environment.

Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	112 dB(A)*
Exterior Sound Pressure Level (SAE J88:2013)	78 dB(A)**

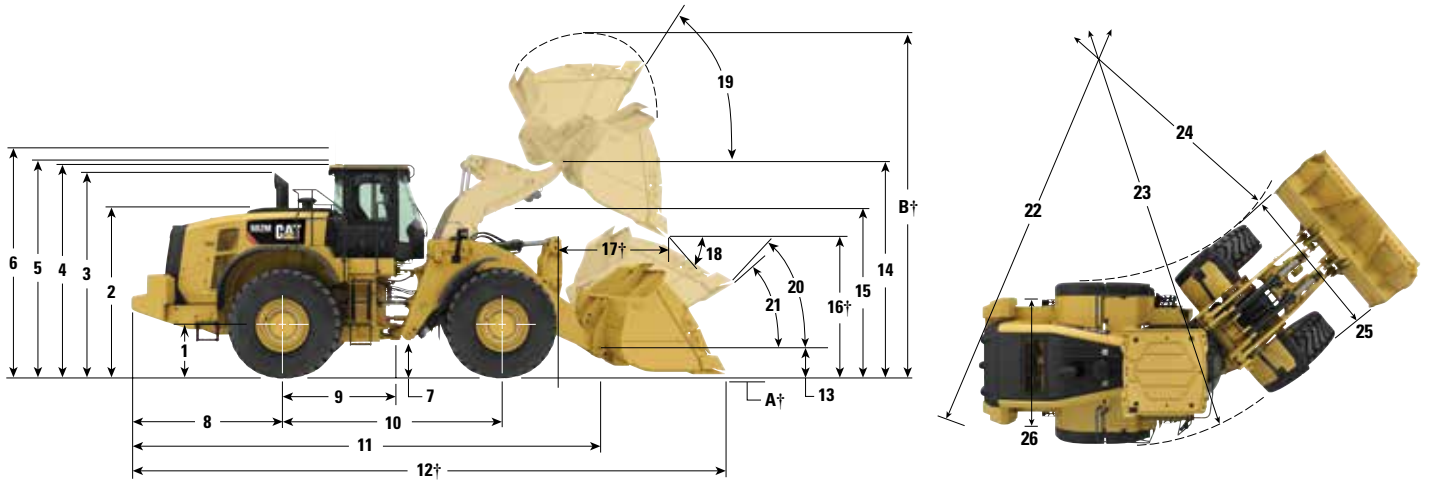
\*For a typical machine configuration, measured according to the procedures specified with the cooling fan speed set at maximum value.

\*\*For a typical machine configuration, measured according to the procedures specified. The measurement was conducted under the following conditions: distance of 15 m (49.2 ft), moving forward in second gear ratio with the cooling fan speed set at maximum value.

# 982M Wheel Loader Specifications

## Dimensions

All dimensions are approximate.



	Standard Lift		High Lift	
1 Height to Axle Centerline	874 mm	2'10"	874 mm	2'10"
2 Height to Top of Hood	3083 mm	10'2"	3083 mm	10'2"
3 Height to Top of Exhaust Pipe	3719 mm	12'3"	3719 mm	12'3"
4 Height to Top of ROPS	3786 mm	12'6"	3786 mm	12'6"
5 Height to Top of Product Link Antenna	3864 mm	12'9"	3864 mm	12'9"
6 Height to Top of Warning Beacon	4085 mm	13'5"	4085 mm	13'5"
7 Ground Clearance	426 mm	1'4"	426 mm	1'4"
8 Center Line of Rear Axle to Edge of Counterweight	2716 mm	8'11"	2823 mm	9'4"
9 Center Line of Rear Axle to Hitch	1900 mm	6'3"	1900 mm	6'3"
10 Wheelbase	3800 mm	12'6"	3800 mm	12'6"
11 Overall Length (without bucket)	8584 mm	28'2"	9083 mm	29'10"
12 Shipping Length (with bucket level on ground)*†	10 177 mm	33'5"	10 670 mm	35'1"
13 Hinge Pin Height at Carry Height	790 mm	2'8"	897 mm	2'11"
14 Hinge Pin Height at Maximum Lift	4743 mm	15'6"	5153 mm	16'10"
15 Lift Arm Clearance at Maximum Lift	3884 mm	12'8"	4072.1 mm	13'4"
16 Dump Clearance at Maximum Lift and 45° Discharge*†	3365 mm	11'1"	3774 mm	12'4"
17 Reach at Maximum Lift and 45° Discharge*†	1569 mm	5'2"	1631 mm	5'4"
18 Dump Angle at Maximum Lift and Dump (on stops)*	50 degrees		50 degrees	
19 Rack Back at Maximum Lift*	57 degrees		56 degrees	
20 Rack Back at Carry Height*	48 degrees		49 degrees	
21 Rack Back at Ground*	42 degrees		40 degrees	
22 Clearance Circle (dia) to Counterweight	13 950 mm	45'10"	13 950 mm	45'10"
23 Clearance Circle (dia) to Outside of Tires	15 026 mm	49'4"	15 026 mm	49'4"
24 Clearance Circle (dia) to Inside of Tires	8148 mm	26'9"	8148 mm	26'9"
25 Width Over Tires – Maximum (unloaded)	3452 mm	11'4"	3452 mm	11'4"
Width Over Tires – Maximum (loaded)	3499 mm	11'6"	3499 mm	11'6"
26 Tread Width	2540 mm	8'4"	2540 mm	8'4"

\*With 6.1 m<sup>3</sup> (8.0 yd<sup>3</sup>) general purpose pin on bucket with BOCE (see Operating Specifications for other buckets).

†Dimensions are listed in Operating Specifications charts.

All height and tire related dimensions are with Bridgestone 875/65R29 VLTS L4 radial tires (see Tire Option Chart for other tires).

"Width Over Tires" dimensions are over the bulge and include growth.

# 982M Wheel Loader Specifications

## Tire Option Chart (Compared to Bridgestone 875/65R29 VLTS L4)

Tire Brand	Michelin	Bridgestone	Bridgestone
Tire Size	875/65R29	875/65R29	29.5R29
Tread Type	L-3	L-3	L-5
Tread Pattern	XHA2	VTS	VSDL
Width over Tires – Maximum (empty)*	3473 mm 11'5"	3447 mm 11'4"	3425 mm 11'3"
Width over Tires – Maximum (loaded)*	3504 mm 11'6"	3472 mm 11'5"	3448 mm 11'4"
Change in Vertical Dimensions (average of front and rear)	-6 mm -0.3"	-7 mm -0.3"	82 mm 3.3"
Change in Horizontal Reach	-1 mm -0.1"	2 mm 0.1"	-70 mm -2.8"
Change in Clearance Circle to Outside of Tires	28 mm 1.2"	-4 mm -0.2"	-28 mm -1.2"
Change in Clearance Circle to Inside of Tires	-28 mm -1.2"	4 mm 0.2"	28 mm 1.2"
Change in Operating Weight (without Ballast)	-356 kg -785 lb	-76 kg -168 lb	1008 kg 2,223 lb
Change in Static Tipping Load – Straight	-236 kg -520 lb	-50 kg -111 lb	667 kg 1,472 lb
Change in Static Tipping Load – Articulated	-206 kg -454 lb	-44 kg -97 lb	583 kg 1,285 lb

\*Width over tire bulge and includes tire growth.

# 982M Wheel Loader Specifications

## Bucket Fill Factors and Selection Chart

The bucket size must be chosen based on the density of the material and on the expected fill factor. The Cat Performance Series Buckets with longer floor, larger bucket opening, increased repository angle, rounded side boards and integrated spill guard, demonstrate fill factors significantly higher than previous generation or non Cat buckets. The actual volume handled by the machine is thus often larger than the rated capacity.

Loose Material		Fill Factor (%)*	Material Density
Earth/Clay		115	1.5-1.7
Sand and Gravel		115	1.5-1.7
Aggregate:	25-76 mm (1 to 3 in)	110	1.6-1.7
	19 mm (0.75 in) and smaller	105	1.8
Rock:	76 mm (3 in) and larger	100	1.6

\*As a % of ISO 7546 rated capacity.

**Note:** Fill Factors achieved will also depend on whether the product is washed or not washed.

Material Density		kg/m <sup>3</sup>	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400		
Standard Linkage	General Purpose	6.10 m <sup>3</sup> (7.98 yd <sup>3</sup> )									7.02 m <sup>3</sup> (9.182 yd <sup>3</sup> )											6.10 m <sup>3</sup> (7.98 yd <sup>3</sup> )	
		6.40 m <sup>3</sup> (8.37 yd <sup>3</sup> )									7.36 m <sup>3</sup> (9.627 yd <sup>3</sup> )											6.40 m <sup>3</sup> (8.37 yd <sup>3</sup> )	
	Heavy Duty Rock	5.40 m <sup>3</sup> (7.06 yd <sup>3</sup> )										6.21 m <sup>3</sup> (8.122 yd <sup>3</sup> )											5.40 m <sup>3</sup> (7.06 yd <sup>3</sup> )
		Woodchip	12.00 m <sup>3</sup> (15.70 yd <sup>3</sup> )	13.80 m <sup>3</sup> (18.05 yd <sup>3</sup> )				12.00 m <sup>3</sup> (15.70 yd <sup>3</sup> )															
High Lift	General Purpose	6.10 m <sup>3</sup> (8.00 yd <sup>3</sup> )										7.00 m <sup>3</sup> (9.25 yd <sup>3</sup> )										6.10 m <sup>3</sup> (8.00 yd <sup>3</sup> )	
		6.40 m <sup>3</sup> (8.25 yd <sup>3</sup> )										7.40 m <sup>3</sup> (9.75 yd <sup>3</sup> )										6.40 m <sup>3</sup> (8.25 yd <sup>3</sup> )	
	Woodchip	12.00 m <sup>3</sup> (15.75 yd <sup>3</sup> )	13.80 m <sup>3</sup> (18.00 yd <sup>3</sup> )				12.00 m <sup>3</sup> (15.75 yd <sup>3</sup> )																
Aggregate Handler	General Purpose	6.40 m <sup>3</sup> (8.37 yd <sup>3</sup> )											7.36 m <sup>3</sup> (9.627 yd <sup>3</sup> )									6.40 m <sup>3</sup> (8.37 yd <sup>3</sup> )	
		7.00 m <sup>3</sup> (9.16 yd <sup>3</sup> )										8.05 m <sup>3</sup> (10.53 yd <sup>3</sup> )										7.00 m <sup>3</sup> (9.16 yd <sup>3</sup> )	
		7.50 m <sup>3</sup> (9.81 yd <sup>3</sup> )									8.63 m <sup>3</sup> (11.29 yd <sup>3</sup> )											7.50 m <sup>3</sup> (9.81 yd <sup>3</sup> )	
		8.20 m <sup>3</sup> (10.73 yd <sup>3</sup> )						9.43 m <sup>3</sup> (12.33 yd <sup>3</sup> )															8.20 m <sup>3</sup> (10.73 yd <sup>3</sup> )
	General Purpose – Heavy Duty	7.50 m <sup>3</sup> (9.81 yd <sup>3</sup> )											8.63 m <sup>3</sup> (11.29 yd <sup>3</sup> )									7.50 m <sup>3</sup> (9.81 yd <sup>3</sup> )	
	Material Handler – Heavy Duty	6.40 m <sup>3</sup> (8.37 yd <sup>3</sup> )												7.36 m <sup>3</sup> (9.627 yd <sup>3</sup> )									6.40 m <sup>3</sup> (8.37 yd <sup>3</sup> )
		7.00 m <sup>3</sup> (9.16 yd <sup>3</sup> )											8.05 m <sup>3</sup> (10.53 yd <sup>3</sup> )										7.00 m <sup>3</sup> (9.16 yd <sup>3</sup> )
Woodchip	12.00 m <sup>3</sup> (15.70 yd <sup>3</sup> )	13.80 m <sup>3</sup> (18.05 yd <sup>3</sup> )				12.00 m <sup>3</sup> (15.70 yd <sup>3</sup> )																	
Coal	8.80 m <sup>3</sup> (11.51 yd <sup>3</sup> )					10.12 m <sup>3</sup> (13.24 yd <sup>3</sup> )							8.80 m <sup>3</sup> (11.51 yd <sup>3</sup> )										
Material Density		lb/yd <sup>3</sup>	1,011	1,180	1,348	1,517	1,685	1,854	2,022	2,191	2,359	2,528	2,696	2,865	3,033	3,202	3,370	3,539	3,707	3,876	4,044		
Bucket Fill Factors		115% 110% 105% 100% 95%																					

**Note:** All buckets are showing Bolt-On Edges.

# 982M Wheel Loader Specifications

## Operating Specifications with Buckets

Linkage		Standard Linkage			Standard Linkage		
Bucket Type		General Purpose			General Purpose		
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Tips	Bolt-On Cutting Edges	Teeth and Segments	Tips
Capacity – Rated	m <sup>3</sup>	6.10	6.10	5.70	6.40	6.40	6.10
	yd <sup>3</sup>	7.98	7.98	7.46	8.37	8.37	7.98
Capacity – 110%	m <sup>3</sup>	6.71	6.71	6.27	7.04	7.04	6.71
	yd <sup>3</sup>	8.78	8.78	8.20	9.21	9.21	8.78
Width	mm	3602	3665	3665	3602	3665	3665
	ft/in	11'9"	12'0"	12'0"	11'9"	12'0"	12'0"
<b>16</b> † Dump Clearance at Maximum Lift and 45° Discharge	mm	3365	3197	3197	3327	3159	3159
	ft/in	11'0"	10'5"	10'5"	10'11"	10'4"	10'4"
<b>17</b> † Reach at Maximum Lift and 45° Discharge	mm	1569	1703	1703	1602	1735	1735
	ft/in	5'1"	5'7"	5'7"	5'3"	5'8"	5'8"
Reach at Level Lift Arm and Bucket Level	mm	3257	3468	3468	3307	3518	3518
	ft/in	10'8"	11'4"	11'4"	10'10"	11'6"	11'6"
<b>A</b> † Digging Depth	mm	116	116	81	116	116	81
	in	4.5"	4.5"	3.2"	4.5"	4.5"	3.2"
<b>12</b> † Overall Length	mm	10 178	10 412	10 412	10 228	10 462	10 462
	ft/in	33'5"	34'2"	34'2"	33'7"	34'4"	34'4"
<b>B</b> † Overall Height with Bucket at Maximum Lift	mm	6592	6592	6592	6642	6642	6642
	ft/in	21'8"	21'8"	21'8"	21'10"	21'10"	21'10"
Loader Clearance Circle with Bucket at Carry Position	mm	15 770	15 986	15 986	15 801	16 018	16 018
	ft/in	51'9"	52'6"	52'6"	51'11"	52'7"	52'7"
Static Tipping Load, Straight (ISO)*	kg	24 791	24 692	25 112	24 620	24 521	24 952
	lb	54,640	54,422	55,347	54,264	54,045	54,994
Static Tipping Load, Straight (Rigid Tire)*	kg	26 101	26 001	26 439	25 938	25 838	26 285
	lb	57,527	57,308	58,272	57,169	56,948	57,933
Static Tipping Load, Articulated (ISO)*	kg	21 080	20 981	21 370	20 918	20 819	21 217
	lb	46,462	46,243	47,100	46,105	45,885	46,763
Static Tipping Load, Articulated (Rigid Tire)*	kg	22 393	22 293	22 699	22 239	22 138	22 552
	lb	49,354	49,135	50,029	49,015	48,794	49,706
Breakout Force(§)	kN	260	259	278	251	251	269
	lbf	58,531	58,375	62,671	56,572	56,417	60,459
Operating Weight*	kg	35 563	35 636	35 476	35 655	35 727	35 567
	lb	78,382	78,542	78,189	78,583	78,742	78,389

\* Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 875/65R29 VLTS L4 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, limited slip differentials, power train guard, secondary steering and sound suppression.

† Illustration shown with Dimension charts.

(§) Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

(ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

(Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

Other buckets are available and offerings vary by region. Consult your local Cat dealer for further details.

# 982M Wheel Loader Specifications

## Operating Specifications with Buckets

Linkage		Standard Linkage			Standard Linkage	Standard Linkage	
Bucket Type		Heavy Duty Rock			Woodchip	Coal	
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Tips	Bolt-On Cutting Edges	Bolt-On Cutting Edges	High Lift Delta
Capacity – Rated	m <sup>3</sup>	5.40	5.40	5.10	12.00	8.80	—
	yd <sup>3</sup>	7.06	7.06	6.67	15.70	11.51	—
Capacity – 110%	m <sup>3</sup>	5.94	5.94	5.61	13.20	9.68	—
	yd <sup>3</sup>	7.77	7.77	7.34	17.26	12.66	—
Width	mm	3648	3648	3648	4174	3639	—
	ft/in	11'11"	11'11"	11'11"	13'8"	11'11"	—
<b>16</b> † Dump Clearance at Maximum Lift and 45° Discharge	mm	3253	3136	3136	3022	3017	408
	ft/in	10'8"	10'3"	10'3"	9'10"	9'10"	1'4"
<b>17</b> † Reach at Maximum Lift and 45° Discharge	mm	1794	1915	1915	1738	1743	61
	ft/in	5'10"	6'3"	6'3"	5'8"	5'8"	0'2"
Reach at Level Lift Arm and Bucket Level	mm	3489	3657	3657	3638	3645	340
	ft/in	11'5"	11'11"	11'11"	11'11"	11'11"	1'1"
<b>A</b> † Digging Depth	mm	107	107	72	119	119	—
	in	4.2"	4.2"	2.8"	4.7"	4.7"	—
<b>12</b> † Overall Length	mm	10 410	10 586	10 586	10 561	10 568	502
	ft/in	34'2"	34'9"	34'9"	34'8"	34'9"	1'8"
<b>B</b> † Overall Height with Bucket at Maximum Lift	mm	6540	6540	6540	7059	6962	409
	ft/in	21'6"	21'6"	21'6"	23'2"	22'11"	1'5"
Loader Clearance Circle with Bucket at Carry Position	mm	15 955	16 073	16 073	16 516	16 049	363
	ft/in	52'5"	52'9"	52'9"	54'3"	52'8"	0'8"
Static Tipping Load, Straight (ISO)*	kg	23 940	23 809	24 303	23 472	23 229	(2,178)
	lb	52,764	52,475	53,565	51,734	51,198	(4,801)
Static Tipping Load, Straight (Rigid Tire)*	kg	25 241	25 108	25 614	24 881	24 545	(2,406)
	lb	55,631	55,339	56,454	54,838	54,098	(5,303)
Static Tipping Load, Articulated (ISO)*	kg	20 193	20 062	20 537	19 784	19 630	(1,992)
	lb	44,505	44,217	45,264	43,605	43,264	(4,390)
Static Tipping Load, Articulated (Rigid Tire)*	kg	21 497	21 364	21 851	21 191	20 949	(2,200)
	lb	47,380	47,088	48,160	46,706	46,172	(4,850)
Breakout Force (§)	kN	233	232	249	203	203	(9)
	lbf	52,456	52,261	56,145	45,653	45,761	(2,213)
Operating Weight*	kg	36 601	36 694	36 420	36 512	36 233	1,037
	lb	80,669	80,874	80,270	80,473	79,858	2,284

\* Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 875/65R29 VLTS L4 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, limited slip differentials, power train guard, secondary steering and sound suppression.

† Illustration shown with Dimension charts.

(§) Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

(ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

(Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

Other buckets are available and offerings vary by region. Consult your local Cat dealer for further details.

# 982M Wheel Loader Specifications

## Operating Specifications with Buckets – Aggregate Handler

Package		Aggregate Handler**				Aggregate Handler**
Bucket Type		General Purpose				General Purpose – Heavy Duty
Edge Type		Bolt-On Cutting Edges	Bolt-On Cutting Edges	Bolt-On Cutting Edges	Bolt-On Cutting Edges	Bolt-On Cutting Edges
Capacity – Rated	m <sup>3</sup>	6.40	7.00	7.50	8.20	7.50
	yd <sup>3</sup>	8.37	9.16	9.81	10.73	9.81
Capacity – 110%	m <sup>3</sup>	7.04	7.70	8.25	9.02	8.25
	yd <sup>3</sup>	9.21	10.07	10.79	11.80	10.79
Width	mm	3602	3602	3602	3602	3602
	ft/in	11'9"	11'9"	11'9"	11'9"	11'9"
16† Dump Clearance at Maximum Lift and 45° Discharge	mm	3327	3277	3227	3154	3236
	ft/in	10'11"	10'9"	10'7"	10'4"	10'7"
17† Reach at Maximum Lift and 45° Discharge	mm	1602	1644	1689	1755	1697
	ft/in	5'3"	5'4"	5'6"	5'9"	5'6"
Reach at Level Lift Arm and Bucket Level	mm	3307	3374	3442	3542	3442
	ft/in	10'10"	11'0"	11'3"	11'7"	11'3"
A† Digging Depth	mm	116	116	116	116	104
	in	4.5"	4.5"	4.5"	4.5"	4.1"
12† Overall Length	mm	10 335	10 402	10 470	10 570	10 462
	ft/in	33'11"	34'2"	34'5"	34'9"	34'4"
B† Overall Height with Bucket at Maximum Lift	mm	6642	6709	6776	6870	6779
	ft/in	21'10"	22'1"	22'3"	22'7"	22'3"
Loader Clearance Circle with Bucket at Carry Position	mm	15 801	15 842	15 885	15 948	15 876
	ft/in	51'11"	52'0"	52'2"	52'4"	52'2"
Static Tipping Load, Straight (ISO)*	kg	26 038	25 761	25 552	25 217	24 863
	lb	57,389	56,779	56,316	55,578	54,799
Static Tipping Load, Straight (Rigid Tire)*	kg	27 454	27 186	26 985	26 661	26 293
	lb	60,510	59,918	59,475	58,762	57,949
Static Tipping Load, Articulated (ISO)*	kg	22 083	21 816	21 618	21 299	20 924
	lb	48,672	48,084	47,647	46,944	46,116
Static Tipping Load, Articulated (Rigid Tire)*	kg	23 507	23 249	23 058	22 751	22 361
	lb	51,809	51,240	50,821	50,144	49,283
Breakout Force (§)	kN	251	240	230	216	227
	lbf	56,572	54,068	51,768	48,643	51,178
Operating Weight*	kg	36 302	36 483	36 589	36 774	37 265
	lb	80,009	80,408	80,641	81,049	82,131

\* Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 875/65R29 VLTS L4 radial tires, full fluids, operator, aggregate counterweight, cold start, roading fenders, Product Link, limited slip differentials, power train guard, secondary steering and sound suppression.

\*\* Aggregate Handler configuration is not compatible with teeth and segments, tips, rock buckets, high lift, L5 tires.

† Illustration shown with Dimension charts.

(§) Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

(ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

(Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

Other buckets are available and offerings vary by region. Consult your local Cat dealer for further details.



# 982M Wheel Loader Specifications

## Operating Specifications with Buckets – Aggregate Handler

Package		Aggregate Handler**	Aggregate Handler**	Aggregate Handler**	
Bucket Type		Material Handling – Heavy Duty		Woodchip	Coal
Edge Type		Bolt-On Cutting Edges	Bolt-On Cutting Edges	Bolt-On Cutting Edges	Bolt-On Cutting Edges
Capacity – Rated	m <sup>3</sup>	6.40	7.00	12.00	8.80
	yd <sup>3</sup>	8.37	9.16	15.70	11.51
Capacity – 110%	m <sup>3</sup>	7.04	7.70	13.20	9.68
	yd <sup>3</sup>	9.21	10.07	17.26	12.66
Width	mm	3602	3602	4174	3639
	ft/in	11'9"	11'9"	13'8"	11'11"
16† Dump Clearance at Maximum Lift and 45° Discharge	mm	3264	3200	3022	3017
	ft/in	10'8"	10'6"	9'10"	9'10"
17† Reach at Maximum Lift and 45° Discharge	mm	1518	1581	1738	1743
	ft/in	4'11"	5'2"	5'8"	5'8"
Reach at Level Lift Arm and Bucket Level	mm	3311	3401	3638	3645
	ft/in	10'10"	11'1"	11'11"	11'11"
A† Digging Depth	mm	104	104	119	119
	in	4.1"	4.1"	4.7"	4.7"
12† Overall Length	mm	10 331	10 421	10 668	10 675
	ft/in	33'11"	34'3"	35'0"	35'1"
B† Overall Height with Bucket at Maximum Lift	mm	6622	6709	7059	6962
	ft/in	21'9"	22'1"	23'2"	22'11"
Loader Clearance Circle with Bucket at Carry Position	mm	15 794	15 850	16 516	16 049
	ft/in	51'10"	52'0"	54'3"	52'8"
Static Tipping Load, Straight (ISO)*	kg	24 813	24 471	24 878	24 604
	lb	54,689	53,935	54,831	54,228
Static Tipping Load, Straight (Rigid Tire)*	kg	26 181	25 850	26 392	26 018
	lb	57,704	56,973	58,170	57,344
Static Tipping Load, Articulated (ISO)*	kg	20 907	20 578	20 937	20 758
	lb	46,079	45,354	46,145	45,751
Static Tipping Load, Articulated (Rigid Tire)*	kg	22 285	21 966	22 456	22 181
	lb	49,116	48,414	49,493	48,888
Breakout Force (§)	kN	247	232	203	203
	lbf	55,612	52,320	45,653	45,761
Operating Weight*	kg	37 148	37 355	37 159	36 880
	lb	81,873	82,330	81,899	81,284

\* Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 875/65R29 VLTS L4 radial tires, full fluids, operator, aggregate counterweight, cold start, roading fenders, Product Link, limited slip differentials, power train guard, secondary steering and sound suppression.

\*\* Aggregate Handler configuration is not compatible with teeth and segments, tips, rock buckets, high lift, L5 tires.

† Illustration shown with Dimension charts.

(§) Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

(ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

(Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

Other buckets are available and offerings vary by region. Consult your local Cat dealer for further details.

# 982M Wheel Loader Standard and Optional Equipment

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>POWER TRAIN</b>			<b>OPERATOR ENVIRONMENT</b>		
Axles, ecology drains	✓		Air conditioner, heater, and defroster (auto temp and fan)	✓	
Axles, open differential, front and rear	✓		Beverage holders (2) with storage compartment for cell phone/MP3 player	✓	
Axles – limited slip differentials, axle oil cooler		✓	Bucket/work tool function lockout	✓	
Brake wear indicators	✓		Cab access ladders and handrails	✓	
Brakes, full hydraulic enclosed wet-disc with Integrated Braking System (IBS)	✓		Cab air filter	✓	
Cat Clean Emissions Module (CEM) with Diesel Particulate Filter (DPF) and Diesel Exhaust Fluid (DEF) tank and pump	✓		Cab, pressurized and sound suppressed (ROPS/FOPS)	✓	
Economy mode (selectable)	✓		Cab tie-off	✓	
Engine, Cat C13 – Tier 3/Stage IIIA equivalent or Tier 4 Final/Stage V	✓		Coat hook (2)	✓	
Fan, radiator, on demand	✓		Cover, HVAC metallic		✓
Fan, VPF (variable pitch fan), automatic and manual control		✓	Door, remote opening system		✓
Fuel priming pump (electric)	✓		EH controls, SAL (single axis lever) lift and tilt function	✓	
Fuel/water separator	✓		EH controls, joystick lift and tilt – additional integrated roller switch for 3 <sup>rd</sup> function		✓
Parking brake, disc and caliper	✓		EH controls, SAL 3 <sup>rd</sup> function		✓
Precleaner, engine air intake	✓		EH parking brake	✓	
Radiator, high debris, with wide fin spacing		✓	Filter, carbon fresh air		✓
Switch, transmission neutralizer lockout	✓		Horn, electric	✓	
Torque converter, locking clutch with free wheel stator	✓		Light, two dome (cab)	✓	
Transmission, automatic planetary power shift (4F/4R)	✓		Mirrors, heated rearview external with integrated spot mirrors		✓
Transmission, heavy duty	✓		Mirrors, rearview external with integrated spot mirrors	✓	
<b>CAT® CONNECT TECHNOLOGY</b>			Multi-function 18 cm (7 in) color LCD touch-screen display for rear vision camera and machine parameters	✓	
Detect technologies:			Post mounted membrane 16 switch keypad	✓	
Rear vision camera	✓		Precleaner, HVAC		✓
Cat rear object detection		✓	Precleaner, HVAC (RESPA)		✓
Link technologies:			Radio, AM/FM/USB/MP3 Bluetooth		✓
Product Link	✓		Radio, AM/FM/CD/USB/MP3 Bluetooth		✓
VIMS™		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth with Satellite Sirius and XM		✓
Payload technologies: Advanced Productivity subscription, Cat Production Measurement 2.0, Printer, Aggregate Autodig		✓	Radio, CB ready		✓
Machine security system		✓	Radio ready (entertainment) includes antenna, speakers and converter (12V, 10-amp)	✓	
			Receptacles (3), 12V	✓	

(continued on next page)

# 982M Wheel Loader Standard and Optional Equipment

## Standard and Optional Equipment (continued)

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

	Standard	Optional
<b>OPERATOR ENVIRONMENT (continued)</b>		
Roof, metallic		✓
Seat, cloth, air suspension	✓	
Seat, suede/cloth, air suspension, heated		✓
Seat, leather/cloth, air suspension, heated/cooled		✓
Seat belt, 51 mm (2 in) retractable, with indicator	✓	
Seat belt, 76 mm (3 in) retractable, with indicator		✓
Seat, heated air suspension		✓
Steering, EH joystick, speed sensing with force feedback	✓	
Steering, EH wheel with directional FNR shifter and gear selector – additional FNR with implement controls		✓
Steering, secondary		✓
Sun visor, front	✓	
Sun visor, rear		✓
Viscous mounts	✓	
Wet-arm wipers/washers front and rear, intermittent front wiper	✓	
Windows, rubber mounted		✓
Window, sliding (left and right sides)	✓	
Windows, with front guard		✓
Windows, with heavy duty front guard		✓
Windows, with full guards front, rear and sides		✓
<b>ELECTRICAL AND LIGHTING</b>		
Alarm, back-up	✓	
Alternator, 145-amp brushed	✓	
Lighting system: four halogen work lights (cab mounted), two halogen roading lights (with signals), two halogen rear vision lights (hood mounted)	✓	
Lighting system: auxiliary halogen cab-mounted work lights (four additional) or		✓
Lighting system: auxiliary front HI LED (two additional) and two additional auxiliary rear LED cab mounted work lights with 2 LED work lights in the radiator grill and LED front turn signals. Also includes replacement of the standard four halogen cab-mounted work lights with four LED work lights		✓

	Standard	Optional
<b>ELECTRICAL AND LIGHTING (continued)</b>		
Batteries (2), maintenance free 1,400 CCA	✓	
External seat belt indicator light		✓
Ignition key; start/stop switch	✓	
Main disconnect switch	✓	
Receptacle start (cables not included)	✓	
Reversing strobes		✓
Starter, electric, heavy duty	✓	
Starting and charging system (24V)	✓	
Warning amber strobe beacon		✓
<b>FLUIDS</b>		
Premixed extended life coolant with freeze protection to -34°C (-29°F)	✓	
Premixed extended life coolant with freeze protection to -50°C (-58°F)		✓
<b>HYDRAULICS</b>		
Couplings, Cat O-ring face seal	✓	
Hoses, Cat XT™	✓	
Hydraulic oil cooler (swing out)	✓	
Hydraulic system, load sensing	✓	
Oil sampling valves	✓	
3 <sup>rd</sup> function with Ride Control – standard linkage, high lift linkage, logger linkage		✓
Remote diagnostic pressure taps	✓	
Ride control, 2V	✓	
Steering, load sensing	✓	
<b>LINKAGE</b>		
Forestry		✓
High lift		✓
Kickout, lift and tilt, automatic (adjustable in cab)	✓	
Quick coupler ready		✓
Z-bar, cast crosstube/tilt lever	✓	
<b>STARTERS, BATTERIES, AND ALTERNATORS</b>		
Batteries (4), maintenance free 1,400 CCA with 120V engine coolant heater		✓
Batteries (4), maintenance free 1,400 CCA with 240V engine coolant heater		✓
<b>WORK TOOLS</b>		
Forks, logging		✓
Forks, pallet		✓
Performance Series buckets		✓

(continued on next page)

# 982M Wheel Loader Standard and Optional Equipment

## Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
<b>COMPUTERIZED MONITORING SYSTEM</b>			<b>OTHER STANDARD AND OPTIONAL EQUIPMENT</b>		
With following gauges:	✓		Auto idle shutdown	✓	
Speedometer/tachometer			Cat Autolube System		✓
Digital gear range indicator			Ecology drains for engine, transmission, and hydraulics	✓	
Diesel Exhaust Fluid (DEF) level			Ether aid ready	✓	
Temperature: engine coolant, hydraulic oil, transmission oil			Fenders, non-metallic front with mud-flap/rear with extension	✓	
Fuel level			Fenders, roading		✓
With following warning indicators:	✓		Filters: fuel, engine air, engine oil, hydraulic oil, transmission	✓	
Regeneration			Fuel cooler	✓	
Temperature: axle oil, engine intake manifold			Fuel tank, fast fill		✓
Pressure: engine oil, fuel pressure hi/low, primary steering oil, service brake oil			Grease zerks	✓	
Battery voltage hi/low			Grill, airborne debris	✓	
Engine air filter restriction			Guard, power train		✓
Hydraulic oil filter restriction			Hitch, drawbar with pin	✓	
Parking brake			Oil change, high speed engine		✓
DEF low level			One-piece tilting hood with side and rear doors	✓	
Transmission filter bypass			Platform, window washing	✓	
			Precleaner, turbine		✓
			Precleaner, trash		✓
			Precleaner rain cap	✓	
			Service centers (electrical and hydraulic)	✓	
			Sight gauges: engine coolant, hydraulic oil, and transmission oil level	✓	
			Toolbox	✓	
			Vandalism protection caplocks	✓	
			Wheel chocks		✓
			<b>OTHER CONFIGURATIONS</b>		
			Aggregate handler		✓
			Forestry		✓



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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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