



950 GC

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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950 GC Wheel Loader Specifications

Engine

Engine Model	Cat® C7.1	
Engine Power @ 2,200 rpm ISO 14396:2002	169 kW	227 hp
ISO 14396:2002 (DIN)	230 hp (metric)	
Gross Power @ 2,200 rpm SAE J1995:2014	170 kW	228 hp
SAE J1995:2014 (DIN)	231 hp (metric)	
Net Power @ 2,200 rpm ISO 9249:2007, SAE J1349:2011	151 kW	202 hp
SAE J1349:2011 (DIN)	205 hp (metric)	
Engine Torque (1,400 rpm) ISO 14396:2002	1092 N·m	805 lbf-ft
Gross Torque (1,400 rpm) SAE J1995:2014	1099 N·m	811 lbf-ft
Net Torque (1,400 rpm) ISO 3294:2007, SAE J1349:2011, EEC 80/1269	1041 N·m	768 lbf-ft
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in ³

- Cat engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V, and Japan 2014 emission standards.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner, and aftertreatment.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
 - 20% biodiesel FAME (fatty acid methyl ester)*
 - 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels
 Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.
- * Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

Weights

Operating Weight	19 069 kg	42,040 lb
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- Weight and static tipping loads and operating weights shown are based on a machine configuration with Maxam 23.5R25 tires, full fluids, operator, standard counterweight, standard ambient arrangement, limited slip differential axles (front/rear), roading fenders, ride control and a 3.1 m³ (4.0 yd³) general purpose bucket with BOCE.

Operating Specifications

Static Tipping Load – Full 38° Turn		
With Tire Deflection	11 160 kg	24,604 lb
No Tire Deflection	11 906 kg	26,248 lb
Breakout Force	154 kN	34,645 lbf

- For a machine configuration as defined under “Weight.”
- Full compliance to ISO 14397-1:2007 Sections 1 through 6, which requires 2% verification between calculations and testing.

Transmission

Forward 1	7.3 km/h	4.5 mph
Forward 2	12.8 km/h	8.0 mph
Forward 3	22.8 km/h	14.2 mph
Forward 4	36 km/h	22.4 mph
Reverse 1	7.3 km/h	4.5 mph
Reverse 2	12.8 km/h	8.0 mph
Reverse 3	22.8 km/h	14.2 mph

- Maximum travel speeds (23.5-25 tires).
- Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 760 mm (30 in) roll radius.

Service Refill Capacities

Fuel Tank Size	290 L	76.6 gal
DEF Tank	16 L	4.2 gal
Cooling System	50 L	13.2 gal
Crankcase	18 L	4.8 gal
Transmission	45 L	11.9 gal
Differentials and Final Drives – Front	40 L	10.6 gal
Differentials and Final Drives – Rear	38 L	10 gal
Hydraulic Tank	112 L	29.6 gal

Bucket Capacities

Bucket Range	2.7-4.4 m ³	3.5-5.75 yd ³
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Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.9 kg (4.2 lb) of refrigerant which has a CO₂ equivalent 2.717 metric tonnes (2.995 tons).

Hydraulic System

Implement System Pump Type	Piston
Steering System Pump Type	Piston
Implement System – Maximum Pump Output at 2,390 rpm	256 L/min 68 gal/min
Implement System – Maximum Operating Pressure at 50 ± 1.5 L/min	27 900 kPa 4,047 psi
Implement System – Optional 3rd Function Maximum Pressure at 70 L/min (18.5 gal/min)	20 680 kPa 2,999 psi
Implement System – Optional 3rd Function Maximum Flow	240 L/min 63 gal/min
Hydraulic Cycle Time – Raise from Carry Position	5.4 Seconds
Hydraulic Cycle Time – Dump at Maximum Raise	1.2 Seconds
Hydraulic Cycle Time – Lower, Empty, Float Down	2.8 Seconds
Hydraulic Cycle Time – Total Cycle Time	9.4 Seconds

Tires*

- Choices include:
 - 23.5R25 L3 ★★ from Triangle and Maxam
 - 23.5R25 L3 ★ from Bridgestone
 - 23.5R25 L2 ★ from Bridgestone
 - 23.5R25 L5 ★★ from Triangle, Maxam, and Bridgestone

*Tire offerings vary by region. Consult your local Cat dealer for further details.

Sound

Operator Sound Pressure Level (ISO 6396:2008)	73 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	109 dB(A)
Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)*
Exterior Sound Power Level (ISO 6395:2008)	107 dB(A)**

*Including countries that adopt the EU and UK directives.
 **EU Noise Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701.

Cab

ROPS/FOPS	ROPS/FOPS meet ISO 3471:2008 and ISO 3449:2005 Level II standards
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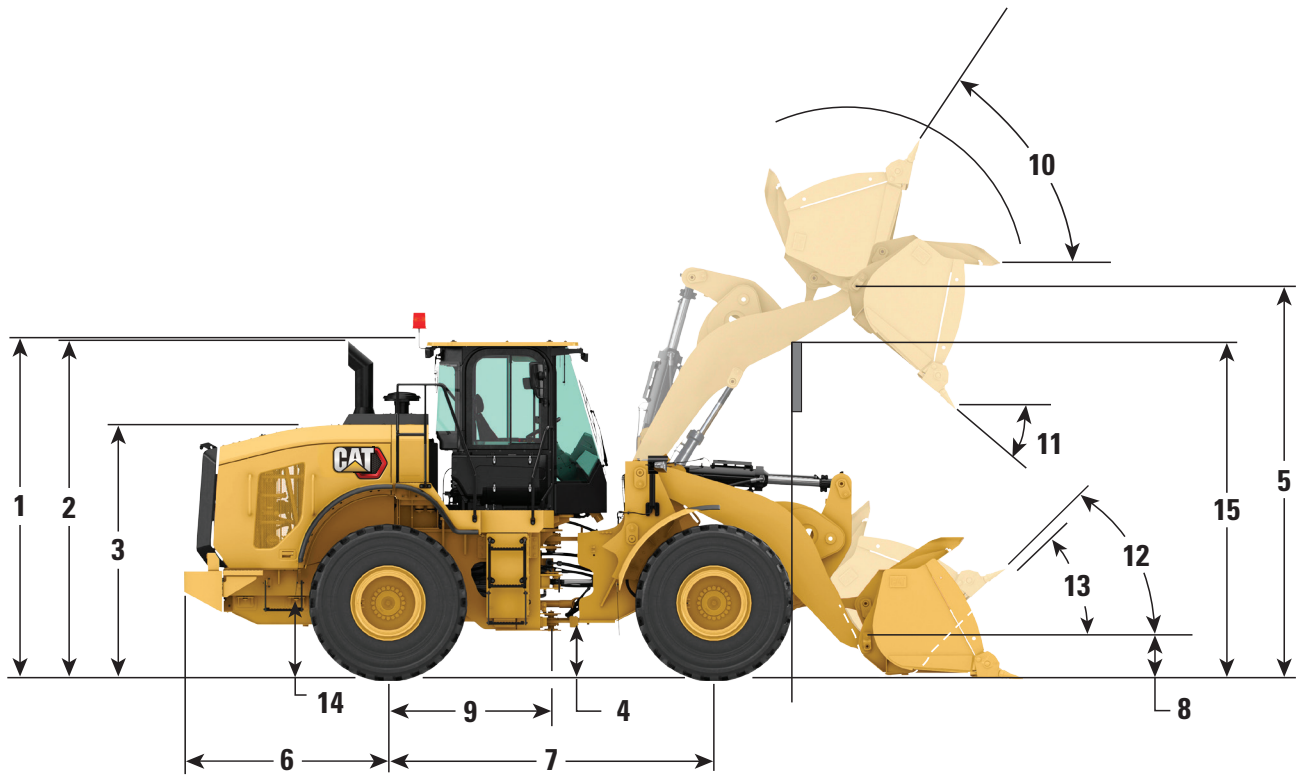
Brakes

Brakes	Brakes meet ISO 3450:2011 standards
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950 GC Wheel Loader Specifications

Dimensions

All dimensions are approximate and based on Maxam MS302 23.5R25 L3 radial tires.



1 Height to Top of ROPS	3458 mm	11'4"
2 Height to Top of Exhaust Pipe	3416 mm	11'2"
3 Height to Top of Hood	2673 mm	8'9"
4 Ground Clearance	460 mm	1'6"
5 B-Pin Height	4188 mm	13'9"
6 Center Line of Rear Axle to Edge of Counterweight	2055 mm	6'9"
7 Wheelbase	3300 mm	10'10"
8 B-Pin Height at Carry	655 mm	2'2"
9 Center Line of Rear Axle to Hitch	1650 mm	5'5"
10 Rack Back at Maximum Lift	60 degrees	
11 Dump Angle at Maximum Lift	52 degrees	
12 Rack Back at Carry	45 degrees	
13 Rack Back at Ground	40 degrees	
14 Height to Center Line of Axle	750 mm	2'6"
15 Lift Arm Clearance	3649 mm	12'0"

950 GC Wheel Loader Specifications

Turning Radius

All dimensions are approximate and based on 23.5R25 Maxam MS302 L3 tires.

Turning Radius to Outside of Tires	6164 mm	20'3"
Turning Radius to Inside of Tires	3419 mm	11'3"
Width Over Tires	2840 mm	9'4"
Turning Radius to Outside Edge of Counterweight	6196 mm	20'4"

Tire Options*

Tire Brand	Maxam	Triangle	Bridgestone	Maxam	Triangle	Bridgestone	Bridgestone
Tire Size	23.5R25	23.5R25	23.5R25	23.5R25	23.5R25	23.5R25	23.5R25
Tread Type	L5	L5	L5	L3	L3	L3	L2
Tread Pattern	MS503	TL538S+	VSDT	MS302	TB516	VJT	VUT
Width over Tires – Maximum (unloaded)**	2775 mm 9'1"	2819 mm 9'3"	2821 mm 9'3"	2832 mm 9'3"	2751 mm 9'0"	2814 mm 9'2"	2825 mm 9'3"
Width over Tires – Maximum (loaded)**	2805 mm 9'2"	2827 mm 9'3"	2839 mm 9'4"	2843 mm 9'3"	2751 mm 9'0"	2833 mm 9'3"	2843 mm 9'3"
Change in Vertical Dimensions (average of front and rear)	51 mm 2.01"	48 mm 1.89"	44 mm 1.73"	0 mm 0"	2 mm 0.01"	-14 mm -0.55"	-17 mm -0.06"
Change in Horizontal Reach	-18.5 mm -0.73"	-22.5 mm -0.89"	-15.5 mm -0.61"	0 mm 0"	5.5 mm 0.02"	14.5 mm 0.57"	14.5 mm 0.57"
Change in Clearance Circle to Outside of Tires	-19.0 mm -0.75"	-8.0 mm -0.31"	-2.0 mm -0.08"	0 mm 0"	-46 mm -0.15"	-5 mm -0.02"	0 mm 0"
Change in Clearance Circle to Inside of Tires	19.0 mm 0.75"	8.0 mm 0.31"	2.0 mm 0.08"	0 mm 0"	46 mm 0.15"	5 mm 0.02"	0 mm 0"
Change in Operating Weight (without Ballast)	472 kg 1041 lb	420 kg 926 lb	568 kg 1252 lb	0 kg 0 lb	-12 kg -26 lb	0 kg 0 lb	-120 kg -265 lb

*Tire offerings vary by region. Consult your local Cat dealer for further details.

**Width over tire bulge and includes tire growth.

Changes Specific to the 950 GC*

Tire Brand	Maxam	Triangle	Bridgestone	Bridgestone
Tire Size	23.5R25	23.5R25	23.5R25	23.5R25
Tread Type	L3	L3	L3	L2
Tread Pattern	MS302	TB516	VJT	VUT
Change in Static Tipping Load – Straight	7 kg 15.4 lb	-8 kg -17.6 lb	0 kg 0 lb	-79 kg -174 lb
Change in Static Tipping Load – Articulated	0 kg 0 lb	-7 kg -15.4 lb	0 kg 0 lb	-70 kg -154 lb

*Tire offerings vary by region. Consult your local Cat dealer for further details.

Note: Reference tire used for 'change' dimensions: Maxam MS302.

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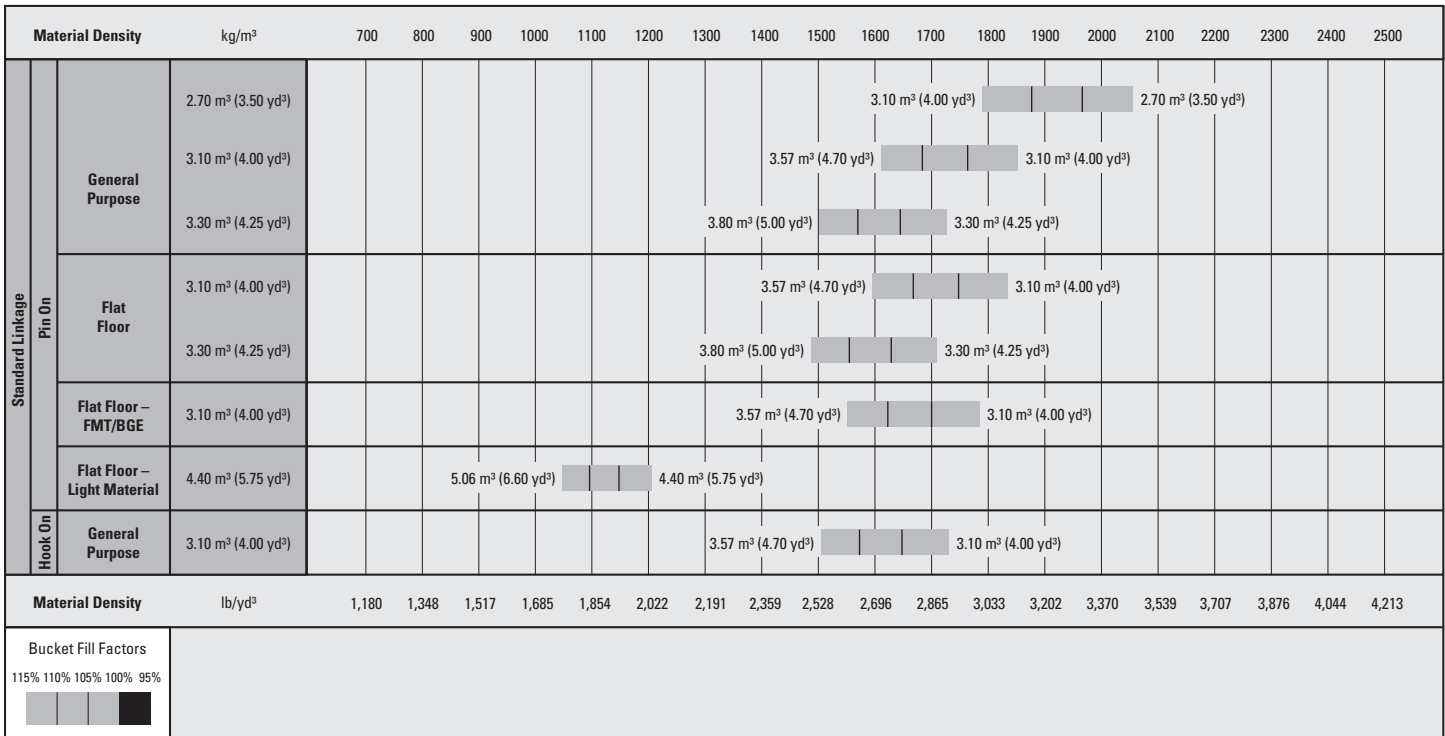
Bucket Fill Factors and Selection Chart

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		Material Density	Fill Factor (%)*
Earth/Clay		1500-1700 kg/m ³ (2,528-2,865 lb/yd ³)	115
Sand and Gravel		1500-1700 kg/m ³ (2,528-2,865 lb/yd ³)	115
Aggregate:	25-76 mm (1 to 3 in)	1600-1700 kg/m ³ (2,696-2,865 lb/yd ³)	110
	19 mm (0.75 in) and smaller	1800 kg/m ³ (3,033 lb/yd ³)	105
Rock:	76 mm (3 in) and larger	1600 kg/m ³ (2,696 lb/yd ³)	100

*As a % of ISO 7546:1983 rated capacity.

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



Note: All buckets are showing Bolt-On Edges unless otherwise noted.

FMT/BGE = Flush Mounted Back Grading Edge

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Operating Specifications

Bucket Type		General Purpose – Pin On					
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Tips	Bolt-On Cutting Edges	Teeth and Segments	Tips
Capacity – Rated	m ³	2.70	2.70	2.50	3.10	3.10	2.90
	yd ³	3.50	3.50	3.25	4.00	4.00	3.75
Capacity – 110% Rated	m ³	3.00	3.00	2.80	3.40	3.40	3.20
	yd ³	4.00	4.00	3.50	4.50	4.50	4.25
Width	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'10"	9'10"	9'7"	9'10"	9'10"
Dump Clearance at Maximum Lift and 45° Discharge	mm	3130	3015	3015	3050	2933	2933
	ft/in	10'3"	9'9"	9'9"	10'0"	9'8"	9'8"
Reach at Maximum Lift and 45° Discharge	mm	1207	1320	1320	1261	1372	1372
	ft/in	4'0"	4'3"	4'3"	4'2"	4'6"	4'6"
Reach at Level Lift Arm and Bucket Level	mm	2620	2781	2781	2719	2880	2880
	ft/in	8'6"	9'1"	9'1"	8'11"	9'5"	9'5"
Digging Depth	mm	86	86	56	86	86	56
	in	3.39"	3.39"	2.2"	3.39"	3.39"	2.2"
Overall Length	mm	8138	8312	8312	8292	8466	8466
	ft/in	26'7"	27'3"	27'3"	27'3"	27'9"	27'9"
Overall Height with Bucket at Maximum Lift	mm	5557	5557	5557	5642	5642	5642
	ft/in	18'2"	18'2"	18'2"	18'6"	18'6"	18'6"
Loader Clearance Circle with Bucket at Carry Position	mm	13 763	13 927	13 927	13 819	13 984	13 984
	ft/in	45'2"	45'7"	45'7"	45'4"	45'11"	45'11"
Static Tipping Load, Straight (With Tire Deflection)*	kg	12 618	12 481	12 807	12 721	12 583	12 912
	lb	27,818	27,516	28,235	28,045	27,741	28,466
Static Tipping Load, Straight (No Tire Deflection)*	kg	13 328	13 190	13 525	13 559	13 420	13 760
	lb	29,383	29,079	29,818	29,892	29,586	30,336
Static Tipping Load, Articulated (With Tire Deflection)*	kg	10 975	10 838	11 147	11 160	11 021	11 335
	lb	24,196	23,894	24,575	24,604	24,297	24,989
Static Tipping Load, Articulated (No Tire Deflection)*	kg	11 666	11 528	11 846	11 906	11 766	12 090
	lb	25,719	25,415	26,116	26,248	25,940	26,654
Breakout Force	kN	168	166	184	154	153	168
	lbf	37,768	37,318	41,365	34,638	34,380	37,666
Operating Weight*	kg	18 454	18 562	18 405	19 069	19 177	19 020
	lb	40,684	40,922	40,576	42,040	42,278	41,932

*Static tipping loads and operating weights shown are based on a machine configuration with Maxam MS302 23.5R25 tires, full fluids, operator, standard counterweight, standard ambient arrangement, limited slip differential axles (front/rear), roading fenders, ride control.

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

(No Tire Deflection) Compliance to ISO 14397-1:2007 Sections 1 through 5.

Bucket and work tool offerings vary by region. Consult your local Cat dealer for further details.

950 GC Wheel Loader Specifications

Operating Specifications

Bucket Type	General Purpose – Pin On						
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Tips	Bolt-On Cutting Edges	Teeth and Segments	Tips
Capacity – Rated	m ³	3.30	3.30	3.10	3.40	3.40	3.20
	yd ³	4.25	4.25	4.00	4.50	4.50	4.25
Capacity – 110% Rated	m ³	3.60	3.60	3.40	3.70	3.70	3.50
	yd ³	4.75	4.75	4.50	4.75	4.75	4.50
Width	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'10"	9'10"	9'7"	9'10"	9'10"
Dump Clearance at Maximum Lift and 45° Discharge	mm	3012	2894	2894	2985	2867	2867
	ft/in	9'11"	9'6"	9'6"	9'10"	9'5"	9'5"
Reach at Maximum Lift and 45° Discharge	mm	1292	1402	1402	1312	1423	1423
	ft/in	4'3"	4'7"	4'7"	4'4"	4'8"	4'8"
Reach at Level Lift Arm and Bucket Level	mm	2769	2930	2930	2804	2965	2965
	ft/in	9'1"	9'7"	9'7"	9'2"	9'9"	9'9"
Digging Depth	mm	86	86	56	86	86	56
	in	3.39"	3.39"	2.2"	3.4"	3.4"	2.2"
Overall Length	mm	8342	8516	8516	8377	8551	8551
	ft/in	27'4"	27'11"	27'11"	27'6"	28'1"	28'1"
Overall Height with Bucket at Maximum Lift	mm	5690	5690	5690	5722	5722	5722
	ft/in	18'8"	18'8"	18'8"	18'9"	18'9"	18'9"
Loader Clearance Circle with Bucket at Carry Position	mm	13 847	14 013	14 013	13 867	14 034	14 034
	ft/in	45'5"	46'0"	46'0"	45'5"	46'0"	46'0"
Static Tipping Load, Straight (With Tire Deflection)*	kg	12 635	12 495	12 817	12 574	12 434	12 760
	lb	27,855	27,547	28,257	27,721	27,413	28,132
Static Tipping Load, Straight (No Tire Deflection)*	kg	13 476	13 335	13 668	13 417	13 276	13 613
	lb	29,709	29,299	30,133	29,579	29,268	30,012
Static Tipping Load, Articulated (With Tire Deflection)*	kg	11 078	10 939	11 246	11 021	10 882	11 193
	lb	24,423	24,116	24,793	24,298	23,990	24,675
Static Tipping Load, Articulated (No Tire Deflection)*	kg	11 826	11 685	12 002	11 771	11 629	11 951
	lb	26,072	25,761	26,460	25,950	25,638	26,347
Breakout Force	kN	148	147	160	144	143	156
	lbf	33,238	32,981	36,033	32,318	32,062	34,966
Operating Weight*	kg	19 110	19 218	19 061	19 137	19 245	19 088
	lb	42,130	42,368	42,022	42,191	42,429	42,083

*Static tipping loads and operating weights shown are based on a machine configuration with Maxam MS302 23.5R25 tires, full fluids, operator, standard counterweight, standard ambient arrangement, limited slip differential axles (front/rear), roading fenders, ride control.

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

(No Tire Deflection) Compliance to ISO 14397-1:2007 Sections 1 through 5.

Bucket and work tool offerings vary by region. Consult your local Cat dealer for further details.

950 GC Wheel Loader Specifications

Operating Specifications

Bucket Type		Flat Floor – Pin On					
		Bolt-On Cutting Edges	Teeth and Segments	Tips	Bolt-On Cutting Edges	Teeth and Segments	Tips
Capacity – Rated	m ³	3.10	3.10	2.90	3.30	3.30	3.10
	yd ³	4.00	4.00	3.75	4.25	4.25	4.00
Capacity – 110% Rated	m ³	3.40	3.40	3.20	3.60	3.60	3.40
	yd ³	4.50	4.50	4.25	4.75	4.75	4.50
Width	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'10"	9'10"	9'7"	9'10"	9'10"
Dump Clearance at Maximum Lift and 45° Discharge	mm	2981	2856	2856	2943	2817	2817
	ft/in	9'9"	9'4"	9'4"	9'8"	9'3"	9'3"
Reach at Maximum Lift and 45° Discharge	mm	1178	1281	1281	1217	1319	1319
	ft/in	3'10"	4'2"	4'2"	4'0"	4'4"	4'4"
Reach at Level Lift Arm and Bucket Level	mm	2729	2890	2890	2784	2945	2945
	ft/in	8'11"	9'6"	9'6"	9'2"	9'8"	9'8"
Digging Depth	mm	86	86	56	86	86	56
	in	3.39"	3.39"	2.2"	3.39"	3.39"	2.2"
Overall Length	mm	8302	8476	8476	8357	8531	8531
	ft/in	27'3"	27'10"	27'10"	27'5"	28'0"	28'0"
Overall Height with Bucket at Maximum Lift	mm	5643	5643	5643	5692	5692	5692
	ft/in	18'6"	18'6"	18'6"	18'8"	18'8"	18'8"
Loader Clearance Circle with Bucket at Carry Position	mm	13 824	13 990	13 990	13 855	14 022	14 022
	ft/in	45'4"	45'11"	45'11"	45'6"	46'0"	46'0"
Static Tipping Load, Straight (With Tire Deflection)*	kg	12 603	12 465	12 783	12 511	12 373	12 690
	lb	27,785	27,481	28,182	27,582	27,278	27,977
Static Tipping Load, Straight (No Tire Deflection)*	kg	13 426	13 287	13 614	13 337	13 197	13 524
	lb	29,599	29,293	30,014	29,403	29,094	29,815
Static Tipping Load, Articulated (With Tire Deflection)*	kg	11 055	10 917	11 220	10 968	10 830	11 133
	lb	24,372	24,068	24,736	24,180	23,876	24,544
Static Tipping Load, Articulated (No Tire Deflection)*	kg	11 787	11 648	11 959	11 703	11 563	11 875
	lb	25,986	25,679	26,365	25,801	25,492	26,180
Breakout Force	kN	153	152	166	146	145	158
	lbf	34,341	34,084	37,319	32,834	32,578	35,565
Operating Weight*	kg	19 082	19 190	19 033	19 124	19 232	19 075
	lb	42,069	42,307	41,961	42,161	42,399	42,053

*Static tipping loads and operating weights shown are based on a machine configuration with Maxam MS302 23.5R25 tires, full fluids, operator, standard counterweight, standard ambient arrangement, limited slip differential axles (front/rear), loading fenders, ride control.

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

(No Tire Deflection) Compliance to ISO 14397-1:2007 Sections 1 through 5.

Bucket and work tool offerings vary by region. Consult your local Cat dealer for further details.

950 GC Wheel Loader Specifications

Operating Specifications

Bucket Type		Flat Floor – Pin On	Flat Floor – Light Material – Pin On	General Purpose – Hook On		
		Flush Mounted Back Grading Edge	Bolt-On Cutting Edges	Bolt-On Cutting Edges	Teeth and Segments	Tips
Capacity – Rated	m ³	3.10	4.40	3.10	3.10	2.90
	yd ³	4.00	5.75	4.00	4.00	3.75
Capacity – 110% Rated	m ³	3.40	4.80	3.40	3.40	3.20
	yd ³	4.50	6.25	4.50	4.50	4.25
Width	mm	2994	3059	2927	2994	2994
	ft/in	9'10"	10'0"	9'7"	9'10"	9'10"
Dump Clearance at Maximum Lift and 45° Discharge	mm	2815	2782	3008	2891	2891
	ft/in	9'3"	9'2"	9'10"	9'6"	9'6"
Reach at Maximum Lift and 45° Discharge	mm	1364	1355	1297	1409	1409
	ft/in	4'6"	4'5"	4'3"	4'8"	4'8"
Reach at Level Lift Arm and Bucket Level	mm	2977	2995	2774	2935	2935
	ft/in	9'9"	9'10"	9'1"	9'8"	9'8"
Digging Depth	mm	59	102	94	94	64
	in	2.32"	4.02"	3.7"	3.7"	2.52"
Overall Length	mm	8541	8581	8353	8527	8527
	ft/in	28'0"	28'2"	27'5"	28'0"	28'0"
Overall Height with Bucket at Maximum Lift	mm	5692	5910	5662	5662	5662
	ft/in	18'8"	19'5"	18'7"	18'7"	18'7"
Loader Clearance Circle with Bucket at Carry Position	mm	14 018	14 109	13 849	14 017	14 017
	ft/in	46'0"	46'4"	45'5"	46'0"	46'0"
Static Tipping Load, Straight (With Tire Deflection)*	kg	12 317	11 832	11 976	11 838	12 157
	lb	27,154	26,085	26,403	26,098	26,802
Static Tipping Load, Straight (No Tire Deflection)*	kg	13 146	12 666	12 800	12 661	12 991
	lb	28,982	27,924	28,219	27,913	28,640
Static Tipping Load, Articulated (With Tire Deflection)*	kg	10 762	10 316	10 439	10 301	10 605
	lb	23,726	22,743	23,014	22,710	23,380
Static Tipping Load, Articulated (No Tire Deflection)*	kg	11 499	11 056	11 171	11 032	11 346
	lb	25,351	24,374	24,628	24,321	25,014
Breakout Force	kN	155	123	146	145	159
	lbf	34,757	27,648	32,926	32,667	35,683
Operating Weight*	kg	19 399	19 558	19 698	19 806	19 649
	lb	42,767	43,118	43,427	43,665	43,319

*Static tipping loads and operating weights shown are based on a machine configuration with Maxam MS302 23.5R25 tires, full fluids, operator, standard counterweight, standard ambient arrangement, limited slip differential axles (front/rear), roading fenders, ride control.

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

(No Tire Deflection) Compliance to ISO 14397-1:2007 Sections 1 through 5.

Bucket and work tool offerings vary by region. Consult your local Cat dealer for further details.

950 GC Wheel Loader Specifications

Fork Specifications

Fork Specifications

1	Tine Length	mm	1524
		in	60.0
2	Load Center	mm	762
		in	30.0
	Static Tipping Load - Straight (Forks Level)	kg	9221
		lbs	20323
	Static Tipping Load - Articulated (Forks Level)	kg	8096
		lbs	17844
	Rated Load (SAE J1197 - 50% FTSTL)	kg	4048
		lbs	8922
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	4858
		lbs	10707
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	6182
		lbs	13625
3	Maximum Overall Length	mm	3960
		in	352.7
4	Reach with Forks at Ground Level	mm	1266
		in	49.8
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	-86
		in	-3.4
6	Reach with Arms Horizontal and Forks Level	mm	1768
		in	69.6
7	Reach with Fork at Maximum Height	mm	846
		in	33.3
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1759
		in	69.2
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	3877
		in	152.7
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	4652
		in	183.2
11	Clearance at Full Lift and Max Dump	mm	2485
		in	97.8
12	Max Discharge Angle from Horizontal	deg	48
13	Overall Carriage Width	mm	2217
		in	87.3
14	Overall Carriage Height	mm	840
		in	33.1
15	Outside Tine Width (max spread)	mm	2070
		in	81.5
16	Outside Tine Width (min spread)	mm	470
		in	18.5
	Tine Width (single tine)	mm	150.0
		in	5.9
	Tine Thickness	mm	65.0
		in	2.6
	Tine Capacity	kg	6300
		lbs	13885
	Operating Weight	kg	18852
		lbs	41551

950 GC STD

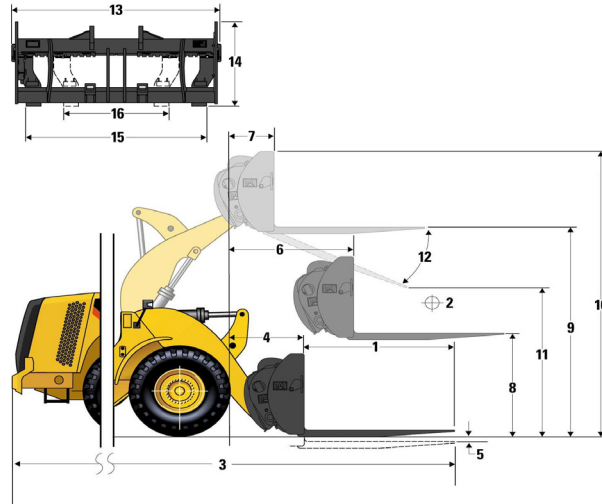
Pallet Fork, FUSION

87" Carriage

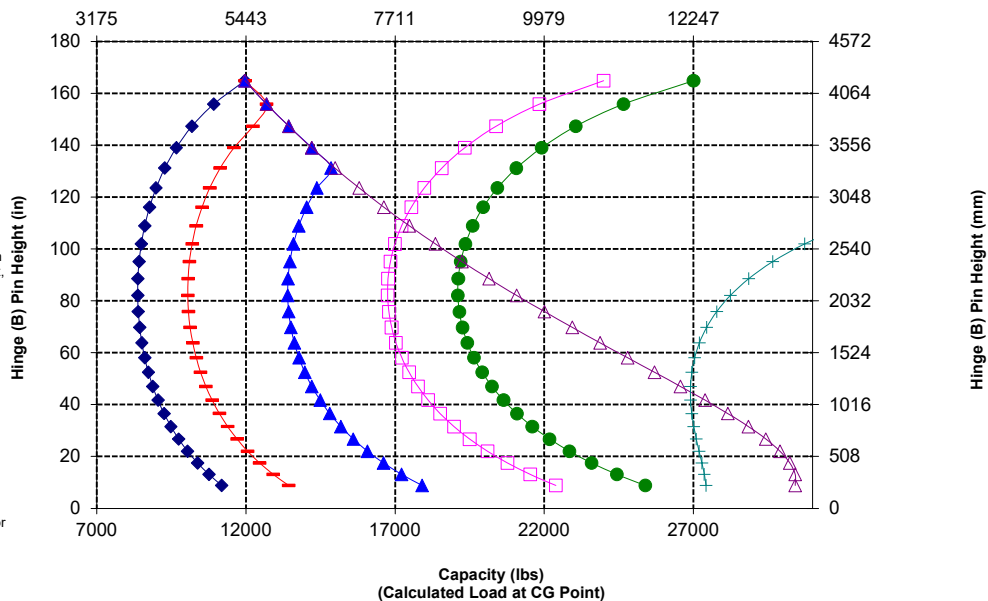
530-1861

60" Tine

548-3265



Capacity (kg)
(Calculated Load at CG Point)



NOTE: Static tipping loads and operating weight are based on the following loader configuration: L3 MAXAM MS302 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE* J1197, SAE J732, CEN** EN 474-3.

The rated operating load for a loader equipped with a pallet fork is determined by:
SAE J1197: 50% of full turn static tipping load or hydraulic limit.
CEN EN 474-3: 60% of full turn static tipping load on rough terrain or hydraulic limit.
CEN EN 474-3: 80% of full turn static tipping load on firm and level ground or hydraulic limit.

*SAE - Society of Automotive Engineers

**CEN - European Committee for Standardization



WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

950 GC Wheel Loader Specifications

Fork Specifications

Fork Specifications

1	Tine Length	mm	1830
		in	72.0
2	Load Center	mm	915
		in	36.0
	Static Tipping Load - Straight (Forks Level)	kg	8775
		lbs	19340
	Static Tipping Load - Articulated (Forks Level)	kg	7699
		lbs	16968
	Rated Load (SAE J1197 - 50% FTSTL)	kq	3849
		lbs	8484
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kq	4619
		lbs	10181
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kq	5428
		lbs	11962
3	Maximum Overall Length	mm	9266
		in	364.8
4	Reach with Forks at Ground Level	mm	1266
		in	49.8
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	-86
		in	-3.4
6	Reach with Arms Horizontal and Forks Level	mm	1768
		in	69.6
7	Reach with Fork at Maximum Height	mm	846
		in	33.3
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1759
		in	69.2
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	3877
		in	152.7
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	4652
		in	183.2
11	Clearance at Full Lift and Max Dump	mm	2259
		in	88.9
12	Max Discharge Angle from Horizontal	deg	48
13	Overall Carriage Width	mm	2217
		in	87.3
14	Overall Carriage Height	mm	840
		in	33.1
15	Outside Tine Width (max spread)	mm	2070
		in	81.5
16	Outside Tine Width (min spread)	mm	470
		in	18.5
	Tine Width (single tine)	mm	150.0
		in	5.9
	Tine Thickness	mm	65.0
		in	2.6
	Tine Capacity	kq	5246
		lbs	11562
	Operating Weight	kq	18899
		lbs	41654

950 GC STD

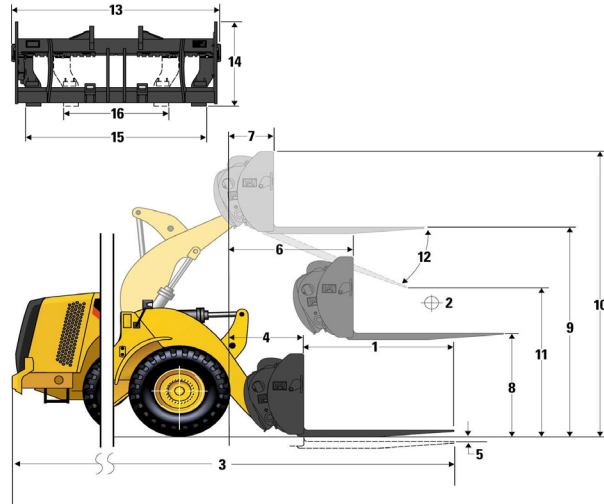
Pallet Fork, FUSION

87" Carriage

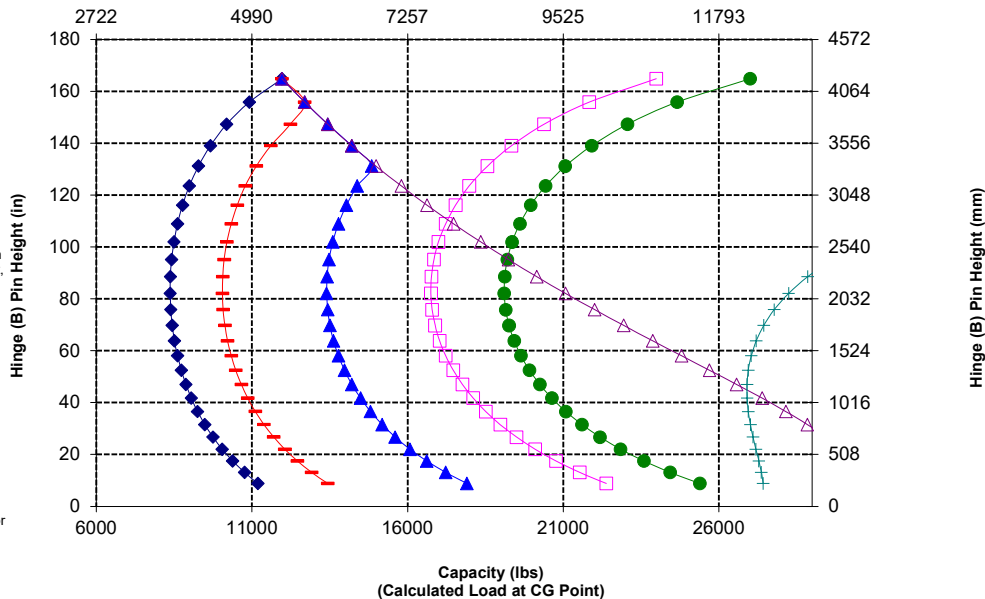
72" Tine

530-1861

530-1869



Capacity (kg)
(Calculated Load at CG Point)



NOTE: Static tipping loads and operating weight are based on the following loader configuration: L3 MAXAM MS302 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE* J1197, SAE J732, CEN** EN 474-3.

The rated operating load for a loader equipped with a pallet fork is determined by:
SAE J1197: 50% of full turn static tipping load or hydraulic limit.
CEN EN 474-3: 60% of full turn static tipping load on rough terrain or hydraulic limit.
CEN EN 474-3: 80% of full turn static tipping load on firm and level ground or hydraulic limit.

*SAE - Society of Automotive Engineers

**CEN - European Committee for Standardization



WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

950 GC Wheel Loader Specifications

Fork Specifications

Fork Specifications

1	Tine Length	mm	1524
		in	60.0
2	Load Center	mm	762
		in	30.0
	Static Tipping Load - Straight (Forks Level)	kg	8947
		lbs	19719
	Static Tipping Load - Articulated (Forks Level)	kg	7820
		lbs	17236
	Rated Load (SAE J1197 - 50% FTSTL)	kg	3910
		lbs	8618
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	4692
		lbs	10342
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	6256
		lbs	13789
3	Maximum Overall Length	mm	8915
		in	351.0
4	Reach with Forks at Ground Level	mm	1221
		in	48.1
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	18
		in	0.7
6	Reach with Arms Horizontal and Forks Level	mm	1761
		in	69.3
7	Reach with Fork at Maximum Height	mm	839
		in	33.0
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1863
		in	73.4
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	3982
		in	156.8
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5022
		in	197.7
11	Clearance at Full Lift and Max Dump	mm	2434
		in	95.8
12	Max Discharge Angle from Horizontal	deg	54
13	Overall Carriage Width	mm	2528
		in	99.5
14	Overall Carriage Height	mm	1130
		in	44.5
15	Outside Tine Width (max spread)	mm	2178
		in	85.7
16	Outside Tine Width (min spread)	mm	576
		in	22.7
	Tine Width (single tine)	mm	180.0
		in	7.1
	Tine Thickness	mm	90.0
		in	3.5
	Tine Capacity	kg	17800
		lbs	39231
	Operating Weight	kg	19227
		lbs	42377

950 GC STD

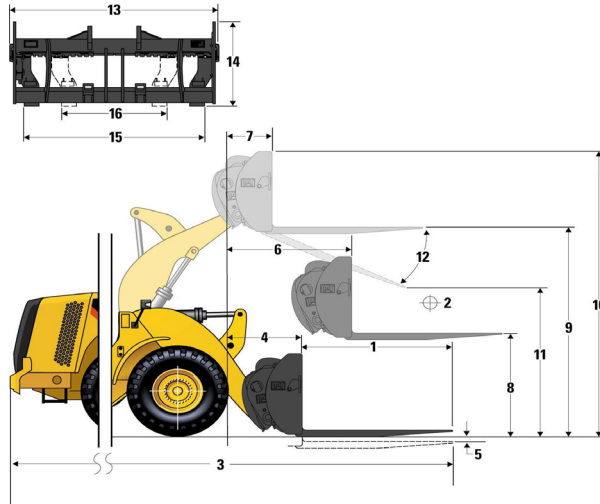
Construction Fork, FUSION

96" Carriage

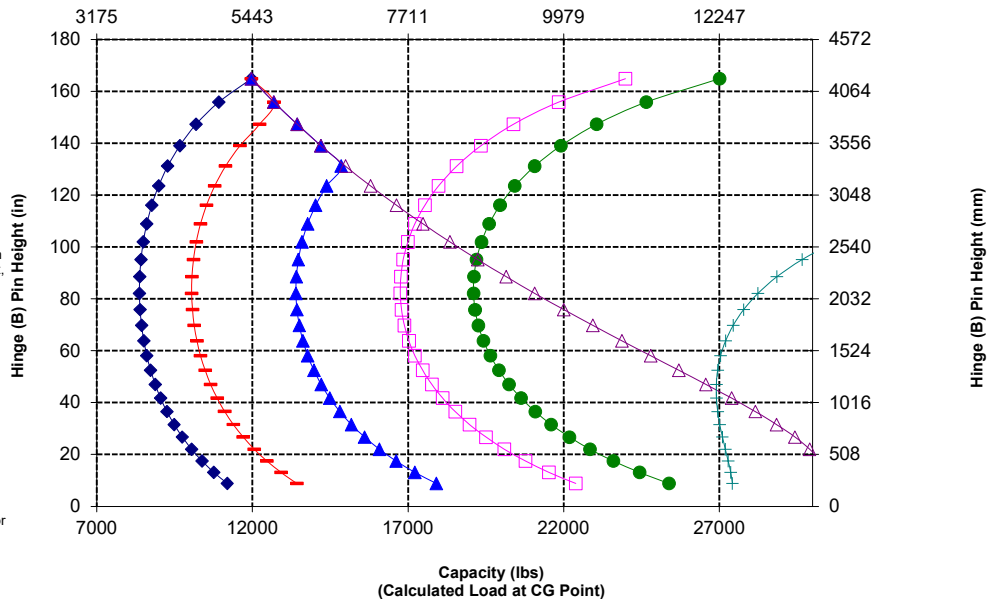
520-7957

60" Tine

520-7980



Capacity (kg)
(Calculated Load at CG Point)



WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

950 GC Wheel Loader Specifications

Fork Specifications

Fork Specifications

1	Tine Length	mm	1829
		in	72.0
2	Load Center	mm	915
		in	36.0
	Static Tipping Load - Straight (Forks Level)	kg	8496
		lbs	18725
	Static Tipping Load - Articulated (Forks Level)	kg	7417
		lbs	16348
	Rated Load (SAE J1197 - 50% FTSTL)	kq	3709
		lbs	8174
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kq	4450
		lbs	9809
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kq	5658
		lbs	12469
3	Maximum Overall Length	mm	9220
		in	363.0
4	Reach with Forks at Ground Level	mm	1221
		in	48.1
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	18
		in	0.7
6	Reach with Arms Horizontal and Forks Level	mm	1761
		in	69.3
7	Reach with Fork at Maximum Height	mm	839
		in	33.0
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1863
		in	73.4
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	3982
		in	156.8
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5022
		in	197.7
11	Clearance at Full Lift and Max Dump	mm	2187
		in	86.1
12	Max Discharge Angle from Horizontal	deg	54
13	Overall Carriage Width	mm	2528
		in	99.5
14	Overall Carriage Height	mm	1130
		in	44.5
15	Outside Tine Width (max spread)	mm	2178
		in	85.7
16	Outside Tine Width (min spread)	mm	576
		in	22.7
	Tine Width (single tine)	mm	180.0
		in	7.1
	Tine Thickness	mm	90.0
		in	3.5
	Tine Capacity	kq	14800
		lbs	32619
	Operating Weight	kq	19288
		lbs	42511

950 GC STD

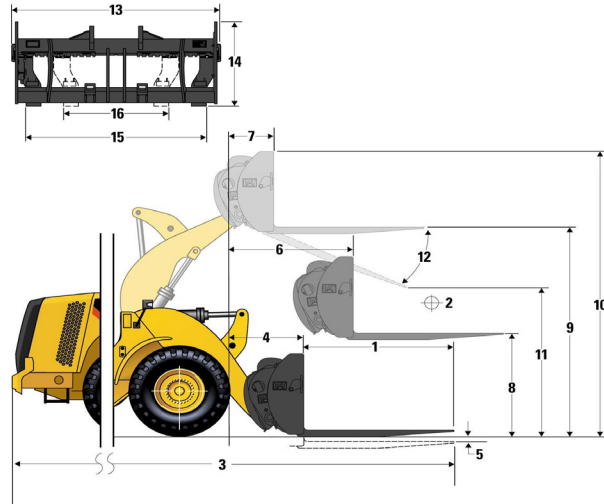
Construction Fork, FUSION

96" Carriage

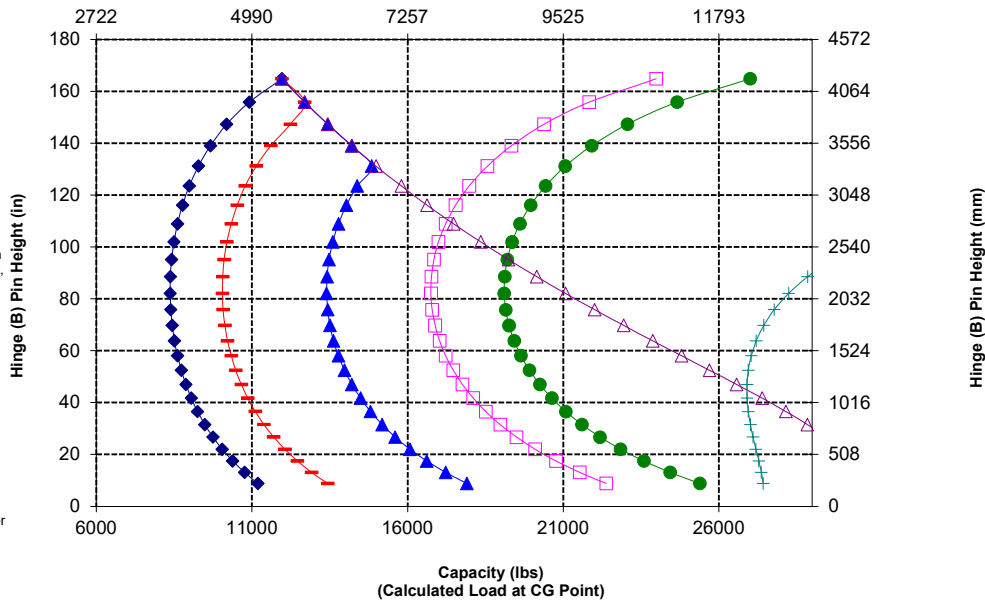
520-7957

72" Tine

520-7979



Capacity (kg)
(Calculated Load at CG Point)



WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

950 GC Wheel Loader Specifications

Material Handling Arm Specifications

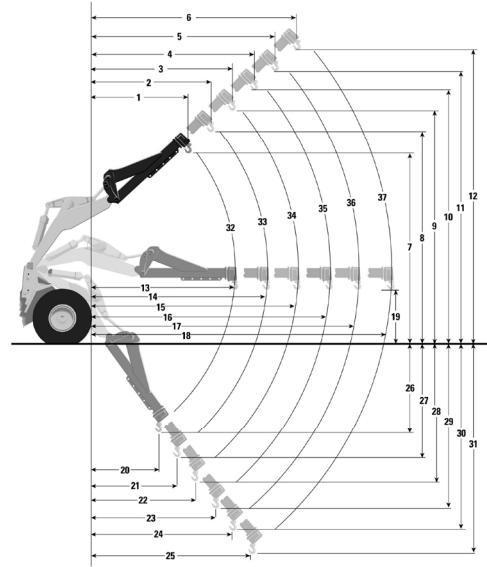
950 GC

624-9044 Fusion MHA

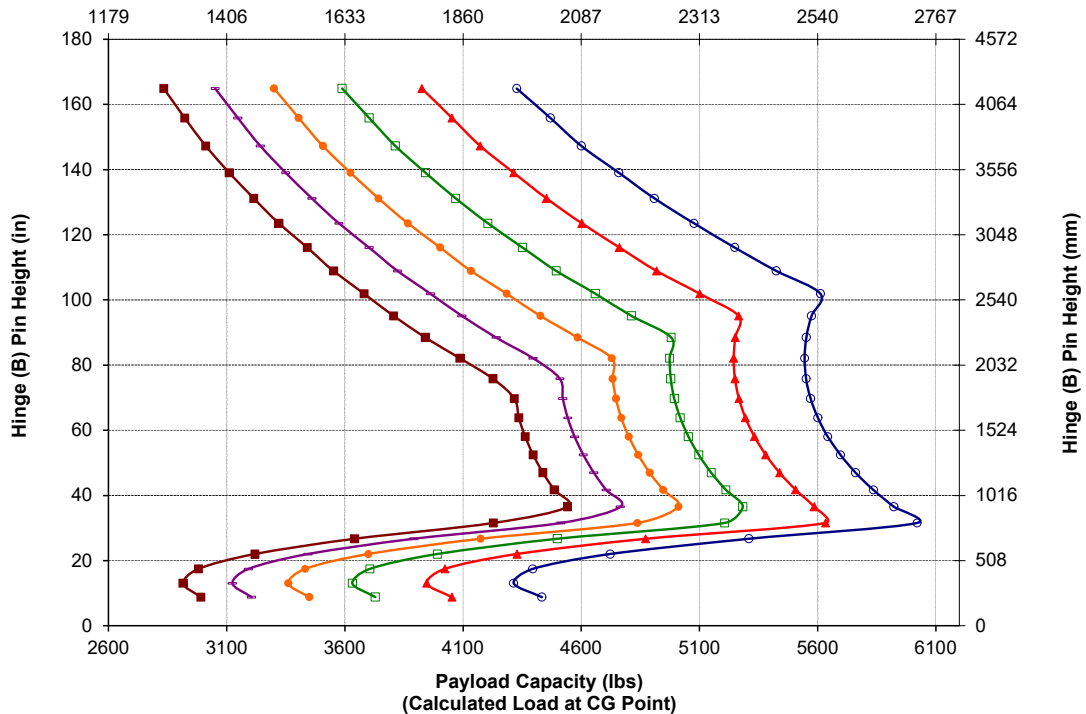
6Pos

MHA Specifications

	Retracted	Extension 1	Extension 2	Extension 3	Extension 4	Extended	
Max Lift - Hook Reach (1, 2, 3, 4, 5, 6)	mm ft, in	2,043 6' 8"	2,174 7' 1"	2,305 7' 6"	2,437 7' 11"	2,568 8' 5"	2,699 8' 10"
Max Lift - Hook Height (7, 8, 9, 10, 11, 12)	mm ft, in	7,058 23' 1"	7,333 24' 0"	7,608 24' 11"	7,883 25' 10"	8,158 26' 9"	8,433 27' 8"
Level - Hook Reach (13, 14, 15, 16, 17, 18)	mm ft, in	4,626 15' 2"	4,930 16' 2"	5,235 17' 2"	5,540 18' 2"	5,845 19' 2"	6,150 20' 2"
Level - Hook Height (19)	mm ft, in	1,829 6' 0"	1,829 6' 0"	1,829 6' 0"	1,829 6' 0"	1,829 6' 0"	1,829 6' 0"
Min Lift - Hook Reach (20, 21, 22, 23, 24, 25)	mm ft, in	1,469 4' 9"	1,565 5' 1"	1,660 5' 5"	1,755 5' 9"	1,850 6' 0"	1,946 6' 4"
Min Lift - Hook Height (26, 27, 28, 29, 30, 31)	mm ft, in	(2,979) -9' 2"	(3,269) -10' 3"	(3,558) -11' 3"	(3,848) -12' 4"	(4,137) -13' 5"	(4,427) -14' 5"
Static Tipping Load, Straight	kg lb	5,740 12,650	5,429 11,966	5,150 11,350	4,897 10,793	4,667 10,286	4,457 9,823
Static Tipping Load, Articulated	kg lb	5,039 11,106	4,766 10,503	4,519 9,960	4,296 9,469	4,094 9,022	3,908 8,614
Operating Weight	kg lb	18,613 41,024	18,613 41,024	18,613 41,024	18,613 41,024	18,613 41,024	18,613 41,024



Payload Capacity (kg)
(Calculated Load at CG Point)



950 GC Wheel Loader Specifications

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			ELECTRICAL		
Cab, pressurized and sound suppressed	✓		Starter, electric, heavy duty	✓	
CB radio ready		✓	Starting and charging system, 24V	✓	
Doors, service access (locking)	✓		Lighting system: 4 halogen work lights, 2 halogen roading lights	✓	
Steering column, adjustable angle	✓		LED taillights	✓	
Steering, secondary, electrical*		✓	Lights: 4 LED or 8 halogen work lights		✓
Seat, Cat Comfort (cloth), mechanical suspension	✓		MONITORING SYSTEM		
Seat, high-back, air suspended		✓	Digital indicators:	✓	
Seat, air suspended, heated		✓	Gear indicator		
Radio: DAB+/AM/FM/BT		✓	Speedometer		
ROPS/FOPS cab structure	✓		Service meter units		
Mirrors, rear view external	✓		Fault codes		
Air conditioning (HVAC) with 10 vents and filter unit located outside of cab	✓		Gauges:	✓	
Windows, sliding (left and right sides)	✓		Engine coolant temperatures/fluid level		
POWERTRAIN			Hydraulic/transmission oil temperature		
Cat C7.1 engine, meets emission standards	✓		Tachometer/DEF level		
Axles, oil cooler		✓	ADDITIONAL EQUIPMENT		
Engine Idle Management System (EIMS)	✓		Cat Autolube		✓
Filter, fuel primary-water separator/secondary	✓		Camera, front view (kit)**		✓
Radiator, unit core (9.5 fpi) with ATAAC	✓		Fenders, roading		✓
Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand	✓		Cat Payload scale system		✓
Fan, reversing cooling, automatic and manual control		✓	Cat Payload installation		✓
Guard		✓	Storage/toolbox		✓
Switch, transmission neutralizer (adjustable) lockout	✓		Tilt cylinder guard		✓
Torque converter	✓		Variable backup alarm (3dB above ambient noise)	✓	
Brakes, full hydraulic enclosed wet-disc	✓		Windshield guard		✓
Transmission, automatic, power shift (4F/3R), kick-down 2-1 manual	✓		Product Link ready	✓	
HYDRAULICS			L5 traction tires		✓
Load sensing implement system	✓		L3 radial or bias ply tires	✓	
Dedicated load sensing steering pump	✓		Precleaner, turbine		✓
Ride control		✓	LINKAGE		
3rd function with additional dedicated single axis lever		✓	Lift and bucket return-to-dig kickouts (electro-magnetic), mechanical adjustment	✓	
Hoses, Cat XT™	✓		Quick coupler control		✓
S•O•S SM oil sampling valves	✓		Z-bar, fabricated crosstube/tilt lever	✓	

*Standard where mandated.

** Refer to M0106413 publication for usage requirements.

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability.html>.

Engine

- The Cat® C7.1 engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V, and Japan 2014 emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels
 Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

**Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).*

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.9 kg (4.2 lb) of refrigerant, which has a CO₂ equivalent of 2.717 metric tonnes (2.995 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

Sound

Operator Sound Pressure Level (ISO 6396:2008)	73 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	109 dB(A)
Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)*
Exterior Sound Power Level (ISO 6395:2008)	107 dB(A)**

*Including countries that adopt the EU and UK directives.

**EU Noise Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Engine Idle Management System and Auto Engine Idle Shutdown reduces idle RPM and maximize fuel efficiency
 - Variable speed fan adjusts to meet machine cooling requirements to help save fuel
 - Load sensing hydraulics produce flow and pressure on-demand and only in amounts necessary to perform the needed functions

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	43.72%
Iron	1.17%
Nonferrous Metal	27.13%
Mixed Metal	0.00%
Mixed-Metal and Nonmetal	0.60%
Plastic	0.06%
Rubber	0.58%
Mixed Nonmetallic	0.05%
Fluid	0.30%
Other	24.39%
Uncategorized	2.00%
Total	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability – 94%



オフロード法2014年
基準適合

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

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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AEXQ2457-03 (4-2023)
Build Number: 01B
(N Am, Europe, Japan,
S Korea, Turkey, Chile)

