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 @ 2,000 rpm ISO 14396:2002	179 kW	240 hp
ISO 14396:2002 (DIN)	243 hp (metric)	
Gross Power @ 2,000 rpm SAE J1995:2014	180 kW	241 hp
SAE J1995:2014 (DIN)	245 hp (metric)	
Net Power @ 1,700 rpm ISO 9249:2007, SAE J1349:2011	168 kW	225 hp
SAE J1349:2011 (DIN)	228 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 in3

- 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

- 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

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 CO_2 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

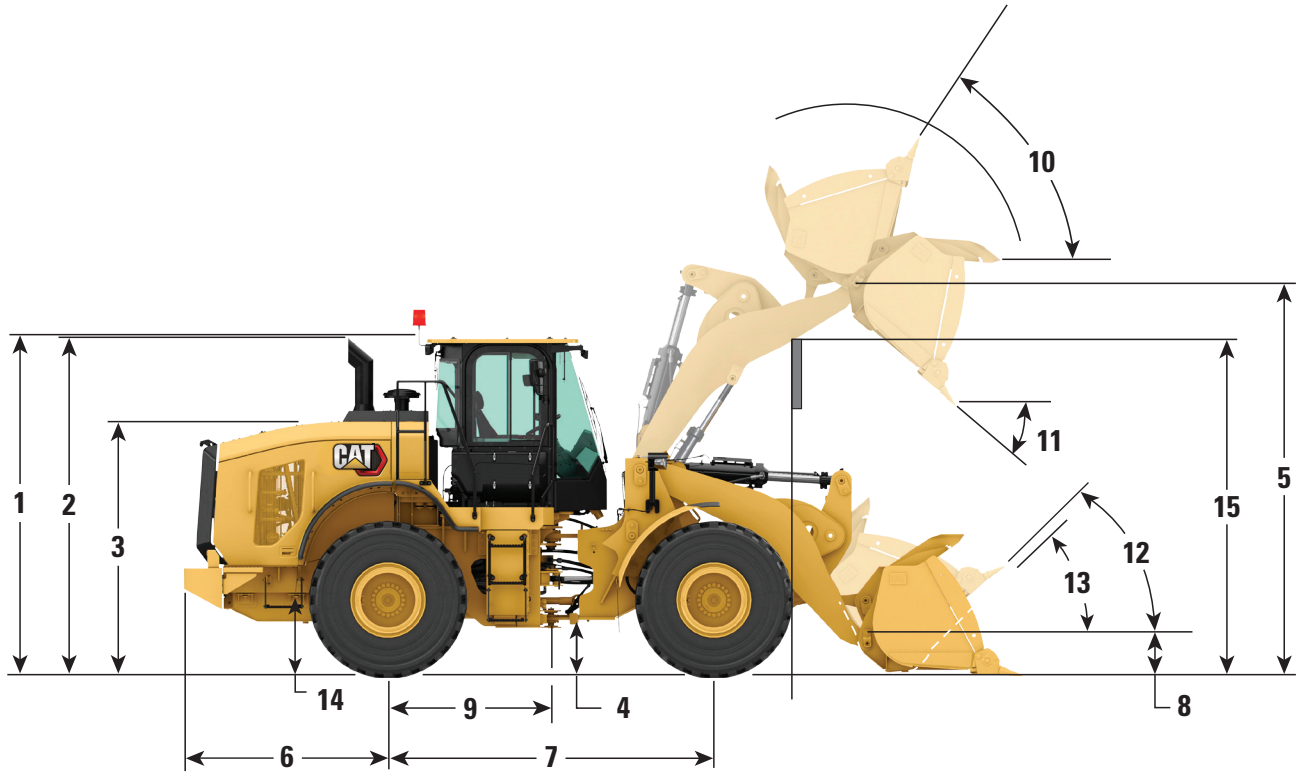
Brakes

Brakes	Brakes meet ISO 3450:2011 standards

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"

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.

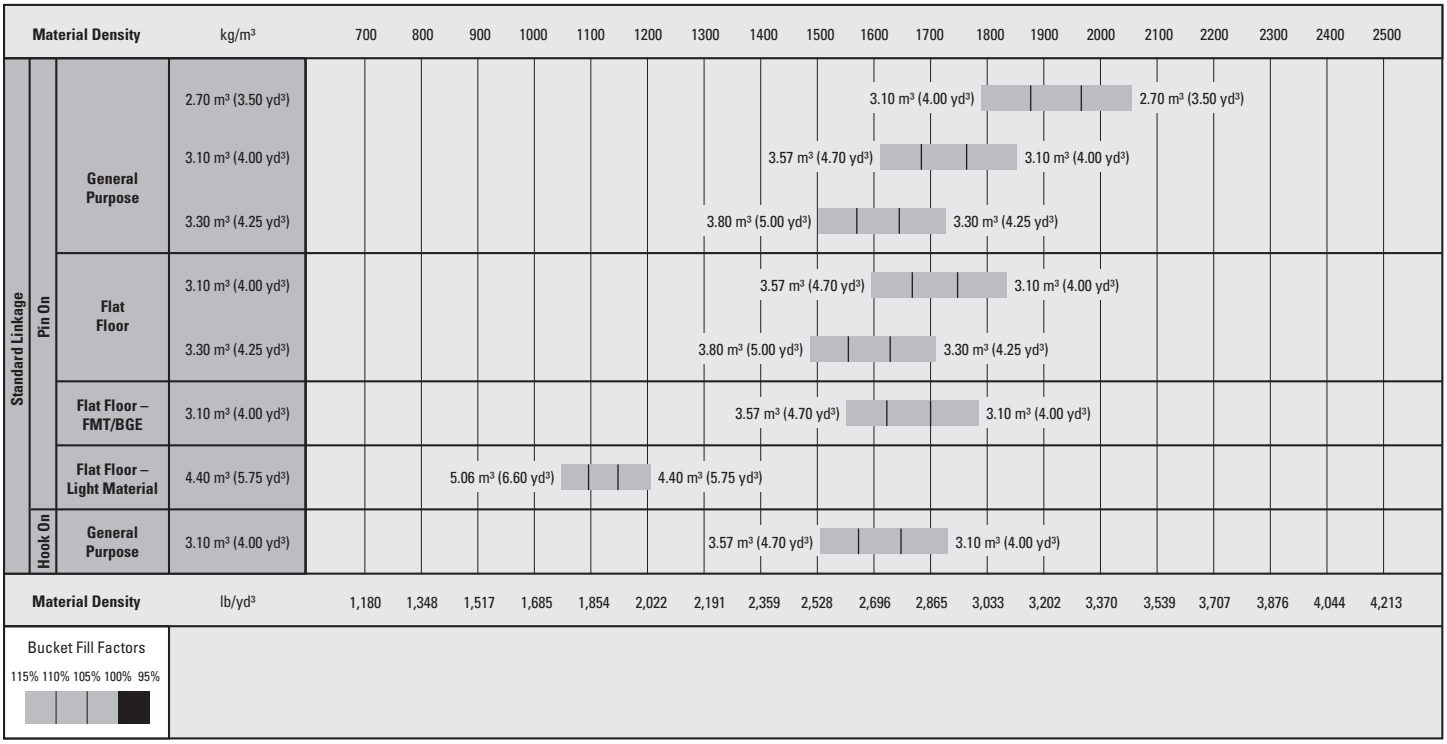
Note: Reference tire used for 'change' dimensions: Maxam MS302.

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/m3 (2,528-2,865 lb/yd3)	115
Sand and Gravel		1500-1700 kg/m3 (2,528-2,865 lb/yd3)	115
Aggregate:	25-76 mm (1 to 3 in)	1600-1700 kg/m3 (2,696-2,865 lb/yd3)	110
	19 mm (0.75 in) and smaller	1800 kg/m3 (3,033 lb/yd3)	105
Rock:	76 mm (3 in) and larger	1600 kg/m3 (2,696 lb/yd3)	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

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	m3	2.70	2.70	2.50	3.10	3.10	2.90
	yd3	3.50	3.50	3.25	4.00	4.00	3.75
Capacity – 110% Rated	m3	3.00	3.00	2.80	3.40	3.40	3.20
	yd3	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	m3	3.30	3.30	3.10	3.40	3.40	3.20
	yd3	4.25	4.25	4.00	4.50	4.50	4.25
Capacity – 110% Rated	m3	3.60	3.60	3.40	3.70	3.70	3.50
	yd3	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.

Operating Specifications

Bucket Type		Flat Floor – Pin On					
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Tips	Bolt-On Cutting Edges	Teeth and Segments	Tips
Capacity – Rated	m3	3.10	3.10	2.90	3.30	3.30	3.10
	yd3	4.00	4.00	3.75	4.25	4.25	4.00
Capacity – 110% Rated	m3	3.40	3.40	3.20	3.60	3.60	3.40
	yd3	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), 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	Flat Floor – Light Material – Pin On	General Purpose – Hook On		
Edge Type		Flush Mounted Back Grading Edge	Bolt-On Cutting Edges	Bolt-On Cutting Edges	Teeth and Segments	Tips
Capacity – Rated	m3	3.10	4.40	3.10	3.10	2.90
	yd3	4.00	5.75	4.00	4.00	3.75
Capacity – 110% Rated	m3	3.40	4.80	3.40	3.40	3.20
	yd3	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.

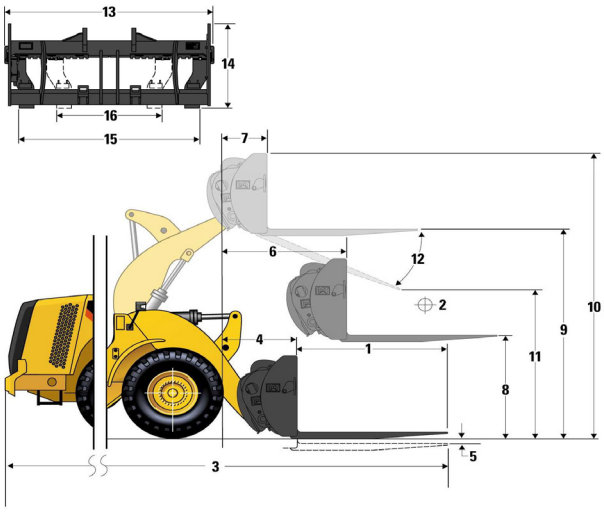
Fork Specifications

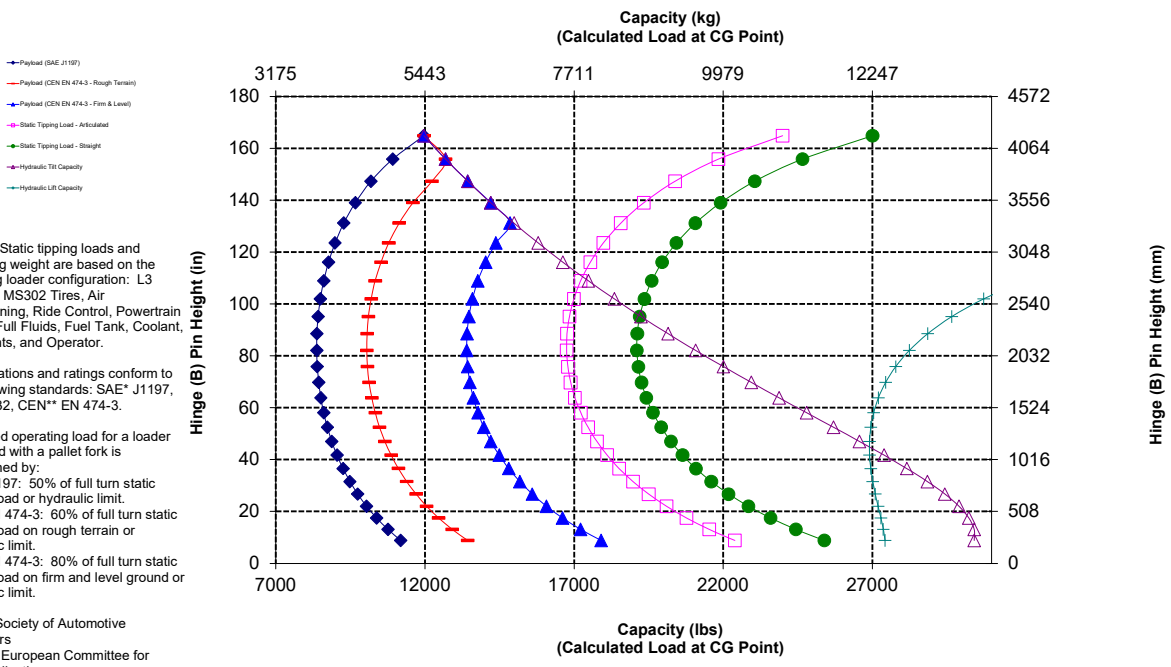
Fork Specifications

1	Tine Length	mm in	1524 60.0
2	Load Center	mm in	762 30.0
	Static Tipping Load - Straight (Forks Level)	kg lbs	9221 20323
	Static Tipping Load - Articulated (Forks Level)	kg lbs	8096 17844
	Rated Load (SAE J1197 - 50% FTSTL)	kg lbs	4048 8922
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg lbs	4858 10707
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg lbs	6182 13625
3	Maximum Overall Length	mm in	8960 352.7
4	Reach with Forks at Ground Level	mm in	1266 49.8
5	Ground to Top of Tine at Minimum Height and Fork Level	mm in	-86 -3.4
6	Reach with Arms Horizontal and Forks Level	mm in	1768 69.6
7	Reach with Fork at Maximum Height	mm in	846 33.3
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm in	1759 69.2
9	Ground to Top of Tine at Maximum Height and Fork Level	mm in	3877 152.7
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm in	4652 183.2
11	Clearance at Full Lift and Max Dump	mm in	2485 97.8
12	Max Discharge Angle from Horizontal	deg	48
13	Overall Carriage Width	mm in	2217 87.3
14	Overall Carriage Height	mm in	840 33.1
15	Outside Tine Width (max spread)	mm in	2070 81.5
16	Outside Tine Width (min spread)	mm in	470 18.5
	Tine Width (single tine)	mm in	150.0 5.9
	Tine Thickness	mm in	65.0 2.6
	Tine Capacity	kg lbs	6300 13885
	Operating Weight	kg lbs	18852 41551

950 GC STD

Pallet Fork, FUSION	87" Carriage	60" Tine
	530-1861	548-3265





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

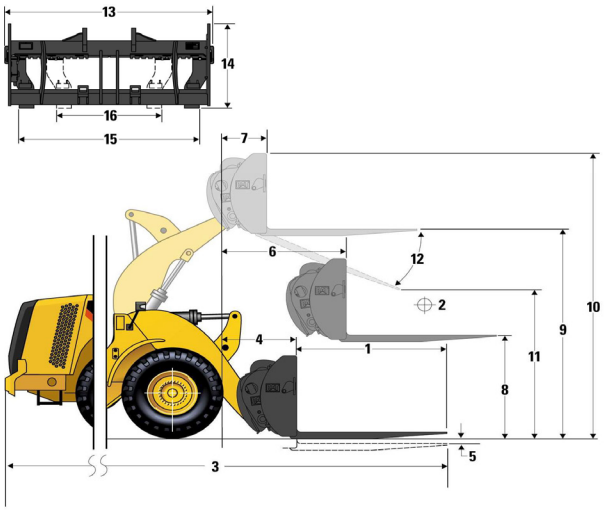
Fork Specifications

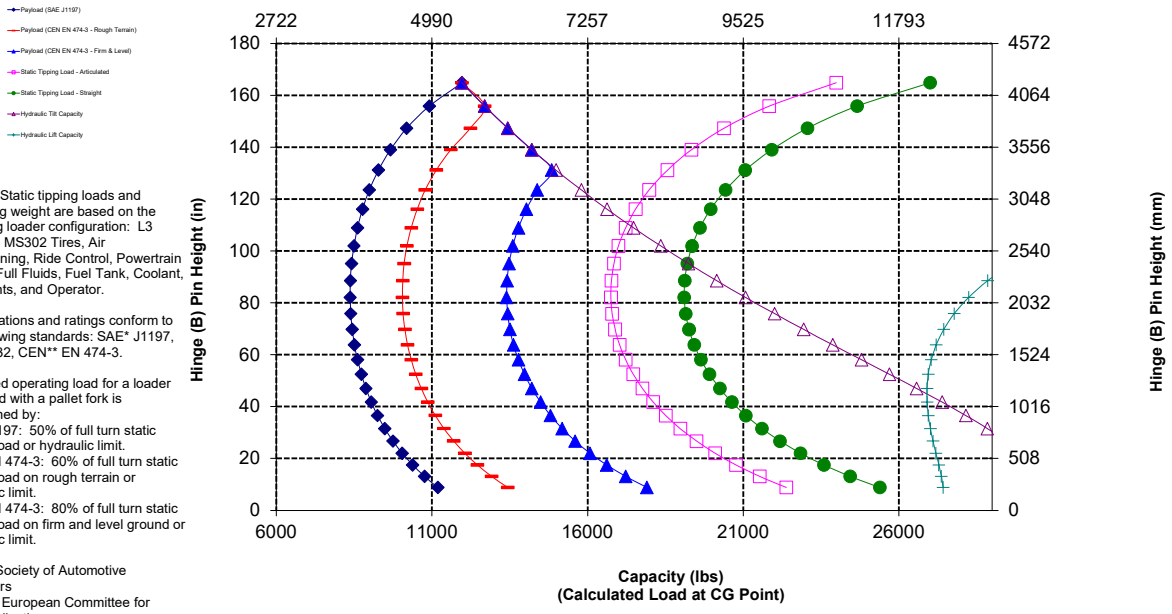
Fork Specifications

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

950 GC STD

Pallet Fork, FUSION	87" Carriage	72" Tine
	530-1861	530-1869





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.

Fork Specifications

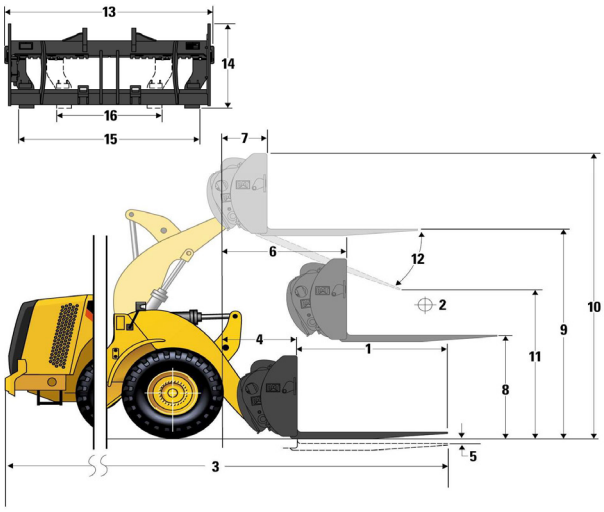
Fork Specifications

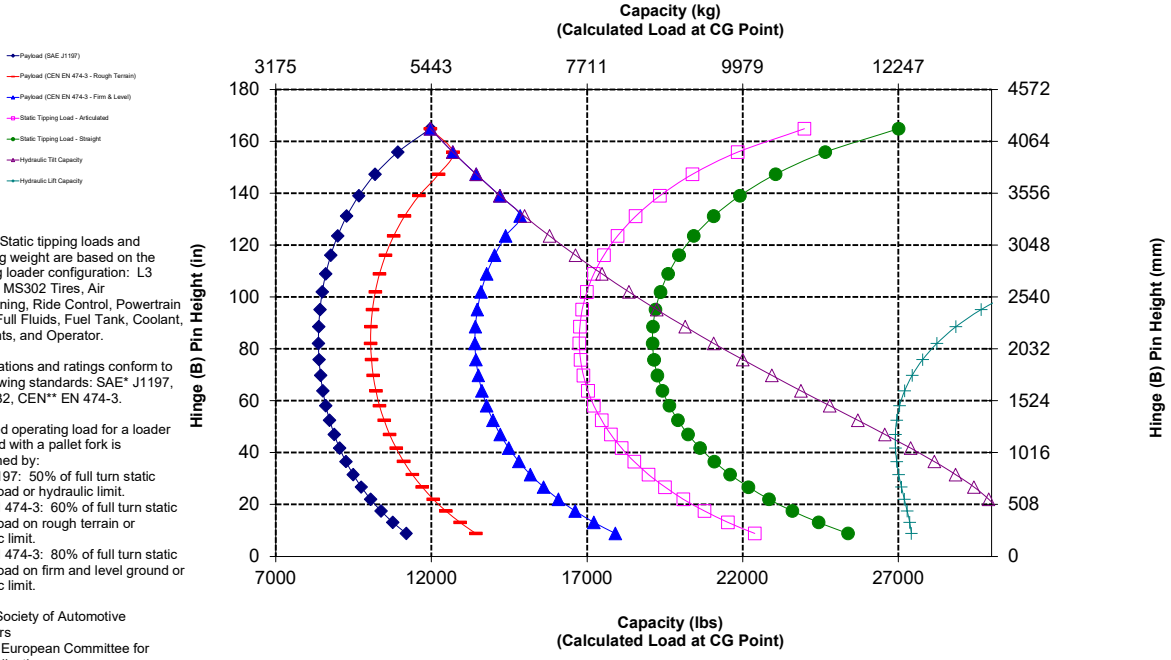
1	Tine Length	mm in	1524 60.0
2	Load Center	mm in	762 30.0
	Static Tipping Load - Straight (Forks Level)	kg lbs	8947 19719
	Static Tipping Load - Articulated (Forks Level)	kg lbs	7820 17236
	Rated Load (SAE J1197 - 50% FTSTL)	kg lbs	3910 8618
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg lbs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

950 GC STD

Construction Fork, FUSION

96" Carriage	60" Tine
520-7957	520-7980





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.

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**CEN - European Committee for Standardization

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

Fork Specifications

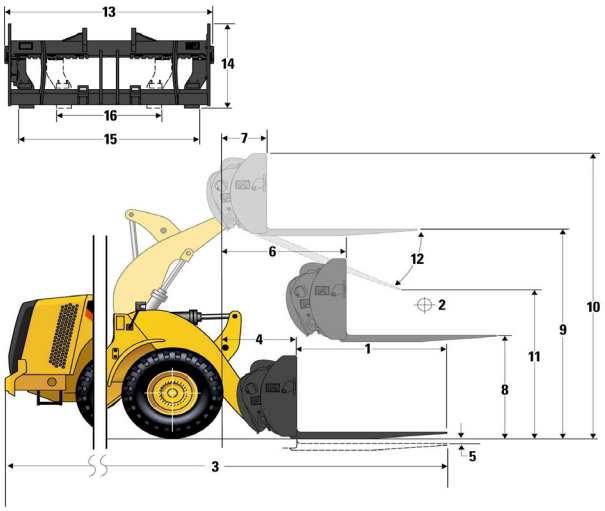
Fork Specifications

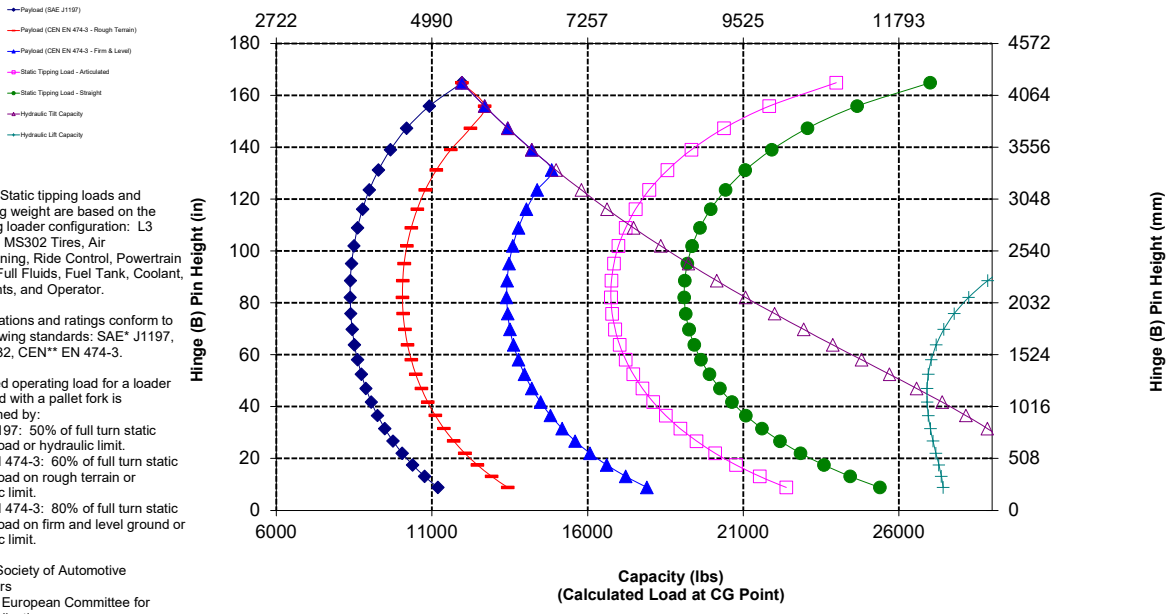
1	Tine Length	mm in	1829 72.0
2	Load Center	mm in	915 36.0
	Static Tipping Load - Straight (Forks Level)	kg lbs	8496 18725
	Static Tipping Load - Articulated (Forks Level)	kg lbs	7417 16348
	Rated Load (SAE J1197 - 50% FTSTL)	kg lbs	3709 8174
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg lbs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

950 GC STD

Construction Fork, FUSION

96" Carriage	72" Tine
520-7957	520-7979





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.

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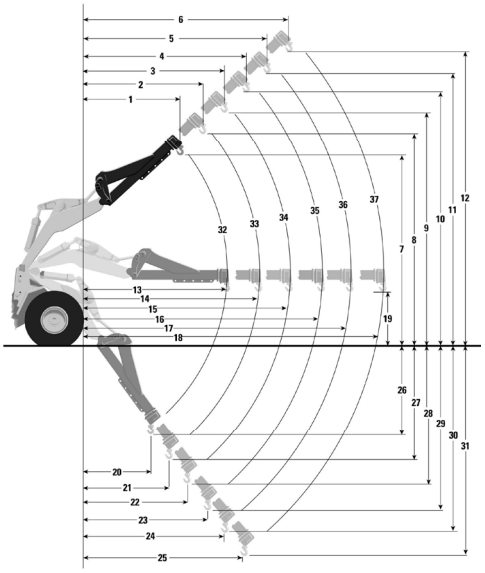
WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

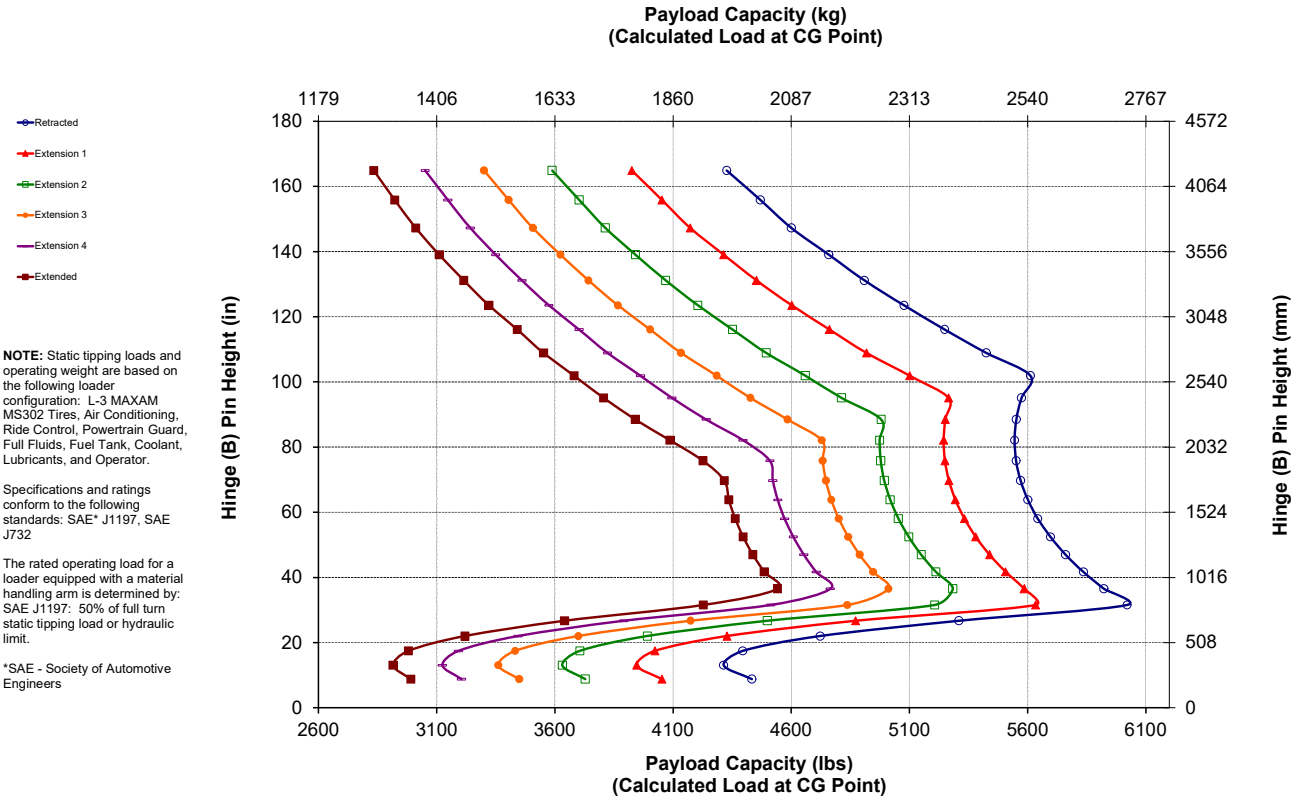
Material Handling Arm Specifications

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





NOTE: Static tipping loads and operating weight are based on the following loader configuration: L-3 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

The rated operating load for a loader equipped with a material handling arm is determined by: SAE J1197: 50% of full turn static tipping load or hydraulic limit.

*SAE - Society of Automotive Engineers

Standard and Optional Equipment

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

	Standard	Optional
OPERATOR ENVIRONMENT		
Cab, pressurized and sound suppressed	✓	
CB radio ready		✓
Doors, service access (locking)	✓	
Steering column, adjustable angle	✓	
Steering, secondary, electrical*		✓
Seat, Cat Comfort (cloth), mechanical suspension	✓	
Seat, high-back, air suspended		✓
Seat, air suspended, heated		✓
Radio: DAB+/AM/FM/BT		✓
ROPS/FOPS cab structure	✓	
Mirrors, rear view external	✓	
Air conditioning (HVAC) with 10 vents and filter unit located outside of cab	✓	
Windows, sliding (left and right sides)	✓	
POWERTRAIN		
Cat C7.1 engine, meets emission standards	✓	
Axles, oil cooler		✓
Engine Idle Management System (EIMS)	✓	
Filter, fuel primary-water separator/ secondary	✓	
Radiator, unit core (9.5 fpi) with ATAAC	✓	
Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand	✓	
Fan, reversing cooling, automatic and manual control		✓
Guard		✓
Switch, transmission neutralizer (adjustable) lockout	✓	
Torque converter	✓	
Brakes, full hydraulic enclosed wet-disc	✓	
Transmission, automatic, power shift (4F/3R), kick-down 2-1 manual	✓	
HYDRAULICS		
Load sensing implement system	✓	
Dedicated load sensing steering pump	✓	
Ride control		✓
3rd function with additional dedicated single axis lever		✓
Hoses, Cat XT™	✓	
S•O•S℠ oil sampling valves	✓	

	Standard	Optional
ELECTRICAL		
Starter, electric, heavy duty	✓	
Starting and charging system, 24V	✓	
Lighting system: 4 halogen work lights, 2 halogen roading lights	✓	
LED taillights	✓	
Lights: 4 LED or 8 halogen work lights		✓
MONITORING SYSTEM		
Digital indicators: Gear indicator Speedometer Service meter units Fault codes	✓	
Gauges: Engine coolant temperatures/fluid level Hydraulic/transmission oil temperature Tachometer/DEF level	✓	
ADDITIONAL EQUIPMENT		
Cat Autolube		✓
Camera, front view (kit)**		✓
Fenders, roading		✓
Cat Payload scale system		✓
Cat Payload installation		✓
Storage/toolbox		✓
Tilt cylinder guard		✓
Variable backup alarm (3dB above ambient noise)	✓	
Windshield guard		✓
Product Link ready	✓	
L5 traction tires		✓
L3 radial or bias ply tires	✓	
Precleaner, turbine		✓
LINKAGE		
Lift and bucket return-to-dig kickouts (electro-magnetic), mechanical adjustment	✓	
Quick coupler control		✓
Z-bar, fabricated crosstube/tilt lever	✓	

*Standard where mandated.
** Refer to M0106413 publication for usage requirements.

950 GC Environmental Declaration

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 CO_2 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.

AEXQ2457-04 (7-2024)
Build Number: 01B
(N Am, Europe, Japan,
S Korea, Turkey, Chile,
Colombia)