



950M

Wheel Loader

Technical Specifications

Not all attachments available in all regions. Consult your Cat® dealer for specific configurations available in your region.

Table of Contents

Specifications	2	Air Conditioning System	3
Engine	2	Dimensions	4
Buckets	2	Tire Options	5
Weight	2	Bucket Fill Factors and Selection Guide	6
Transmission	2	Operating Specifications – Buckets	7
Hydraulic System	2	Light Material High Dump Buckets	10
Brakes	2	Pallet and Construction Forks	14
Axles	3	Material Handling Arms	17
Cab	3	Standard and Optional Equipment	20
Sound	3		
Service Refill Capacities	3		
950M Industrial & Waste Configuration	23	Service Refill Capacities	25
Key Features and Benefits	23	Air Conditioning System	25
Engine	24	Waste Handler Dimensions	26
Buckets	24	Tire Options for Scrap and Waste	27
Weight	24	Operating Specifications – Waste Buckets	28
Transmission	24	Waste High Dump Bucket	29
Hydraulic System	24	Scrap Bucket Chart	31
Brakes	24	Standard and Optional Equipment	32
Axles	25	Machine Guarding and Features	35
Cab	25		
Sound	25		
950M Forestry Configuration	37	Sound	39
Key Features and Benefits	37	Service Refill Capacities	39
Engine	38	Air Conditioning System	39
Buckets	38	Tire Options	40
Weight	38	Operating Specs – Logging Sorting Grapple	41
Transmission	38	Woodchip Buckets	43
Hydraulic System	38	Light Material High Dump Buckets	44
Brakes	38	Standard and Optional Equipment	46
Axles	39	Recommended Equipment and Work Tools	49
Cab	39		



950M Wheel Loader Specifications

Engine

Engine Model	Cat C7.1	
Engine Power (2,100 rpm)		
SAE J1995	187 kW	254 hp (metric)
ISO 14396	186 kW	253 hp (metric)
Net Power (2,100 rpm)		
ISO 9249	171 kW	232 hp (metric)
Gross Torque (1,300 rpm)		
ISO 14396	1231 N·m	908 lbf-ft
Net Torque (1,300 rpm)		
ISO 9249	1163 N·m	858 lbf-ft
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in ³

- Meets either EU Stage V or EU Stage IV* emission standards.
*Stage IV engines comply with the transition provisions of the EU nonroad emission regulation
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and aftertreatment.

Buckets

Bucket Capacities	2.5-9.2 m ³	3.3-12.0 yd ³
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Weight

Operating Weight	19 269 kg	42,481 lb
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- Weight based on a machine configuration with Michelin 23.5R25 XHA2 L3 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link™, manual diff lock/open axles (front/rear), power train guard, secondary steering, sound suppression and a 3.3 m³ (4.3 yd³) flat floor bucket with BOCE.

Transmission

Forward 1	6.9 km/h	4.3 mph
Forward 2	12 km/h	7.5 mph
Forward 3	19.3 km/h	12.0 mph
Forward 4	25.7 km/h	16.0 mph
Forward 5	39.5 km/h	24.5 mph
Reverse 1	6.9 km/h	4.3 mph
Reverse 2	12 km/h	7.5 mph
Reverse 3	25.7 km/h	16.0 mph

- Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 787 mm (2'6") roll radius.

Hydraulic System

Implement Pump Type	Variable axial piston	
Implement System		
Maximum Pump Output (2,150 rpm)	286 L/min	76 gal/min
Maximum Operating Pressure	29 300 kPa	4,250 psi
Optional 3 rd /4 th Function Maximum Flow	240 L/min	63 gal/min
Optional 3 rd /4 th Function Maximum Pressure	21 780 kPa	3,159 psi
Hydraulic Cycle Time with Rated Payload		
Raise from Carry Position	5.1 seconds	
Dump, at Maximum Raise	1.5 seconds	
Lower, Empty, Float Down	2.3 seconds	
Total	8.9 seconds	

Brakes

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

Axles

Front	Fixed
Rear	Oscillating ± 13 degrees
Maximum Single-Wheel Rise and Fall	496 mm 1.6 ft

Cab

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

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)	69 dB(A)*
Exterior Sound Power Level European Union Directive "2000/14/EC" as amended by "2005/88/EC."	104 dB(A)*
Exterior Sound Pressure Level (SAE J88:2013)	75 dB(A)**

*For a typical machine configuration, measured according to the procedures specified with the cooling fan speed set at 70% of 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"), moving forward in second gear ratio with the cooling fan speed set at maximum value.

Service Refill Capacities

Fuel Tank	275 L	72.6 gal
DEF Tank*	16 L	4.2 gal
Cooling System	59 L	15.6 gal
Crankcase	22 L	5.8 gal
Transmission	43 L	11.4 gal
Differentials and Final Drives – Front	43 L	11.4 gal
Differentials and Final Drives – Rear	43 L	11.4 gal
Hydraulic Tank	125 L	33.0 gal

*DEF must meet the requirements outlined in ISO 22241-1.

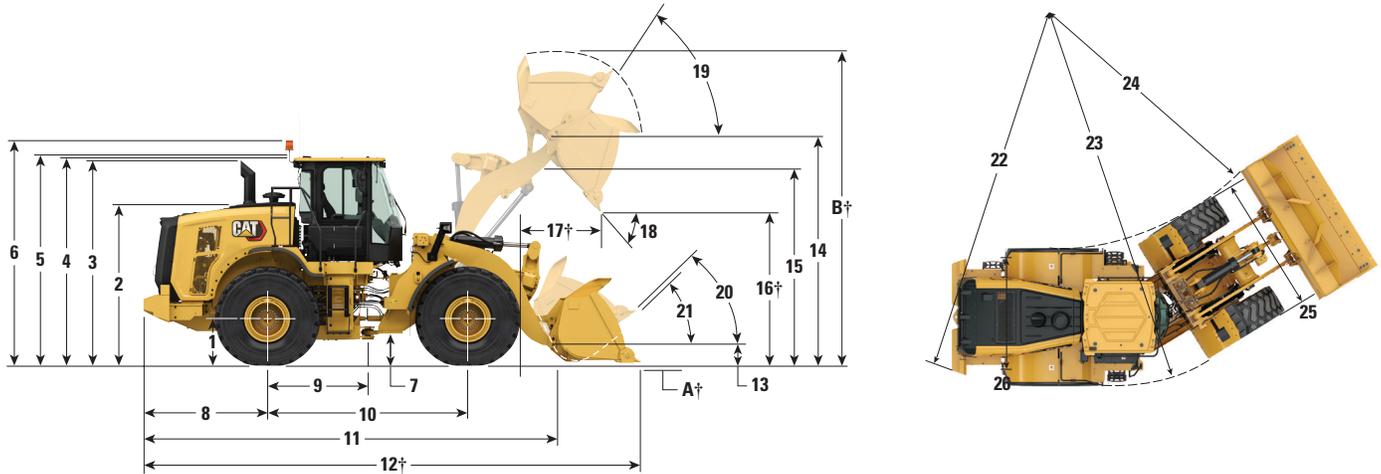
Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg (3.5 lb) of refrigerant which has a CO₂ equivalent of 2.288 metric tonnes.

950M Wheel Loader Specifications

Dimensions

All dimensions are approximate.



	Standard Lift		High Lift	
1 Height to Axle Centerline	747 mm	2'5"	747 mm	2'5"
2 Height to Top of Hood	2697 mm	8'10"	2697 mm	8'10"
3 Height to Top of Exhaust Pipe	3413 mm	11'2"	3413 mm	11'2"
4 Height to Top of ROPS	3451 mm	11'4"	3451 mm	11'4"
5 Height to Top of Product Link Antenna	3653 mm	12'0"	3653 mm	12'0"
6 Height to Top of Warning Beacon	3747 mm	12'4"	3747 mm	12'4"
7 Ground Clearance	367 mm	1'2"	367 mm	1'2"
8 Center Line of Rear Axle to Edge of Counterweight	2071 mm	6'8"	2071 mm	6'8"
9 Center Line of Rear Axle to Hitch	1675 mm	5'6"	1675 mm	5'6"
10 Wheelbase	3350 mm	11'0"	3350 mm	11'0"
11 Overall Length (without bucket)	7031 mm	23'1"	7488 mm	24'6"
12 Shipping Length (with bucket level on ground)*†	8371 mm	27'5"	8824 mm	29'0"
13 Hinge Pin Height at Carry Height	647 mm	2'1"	782 mm	2'6"
14 Hinge Pin Height at Maximum Lift	4027 mm	13'3"	4527 mm	14'9"
15 Lift Arm Clearance at Maximum Lift	3280 mm	10'9"	3634 mm	11'9"
16 Dump Clearance at Maximum Lift and 45° Discharge*†	2789 mm	9'2"	3295 mm	10'8"
17 Reach at Maximum Lift and 45° Discharge*†	1378 mm	4'5"	1413 mm	4'6"
18 Dump Angle at Maximum Lift and Dump (on stops)*	47 degrees		44 degrees	
19 Rack Back at Maximum Lift*	59 degrees		59 degrees	
20 Rack Back at Carry Height*	49 degrees		49 degrees	
21 Rack Back at Ground*	36 degrees		40 degrees	
22 Turning Radius to Counterweight	6023 mm	19'8"	6023 mm	19'8"
23 Turning Radius to Outside of Tires	5985 mm	19'6"	5985 mm	19'6"
24 Turning Radius to Inside of Tires	3219 mm	10'6"	3219 mm	10'6"
25 Width over Tires (unloaded)	2814 mm	9'2"	2814 mm	9'2"
Width over Tires (loaded)	2822 mm	9'3"	2822 mm	9'3"
26 Tread Width	2140 mm	7'0"	2140 mm	7'0"

*With 3.3 m³ (4.3 yd³) Pin-on MH bucket with BOCE (see Operating Specifications tables for other buckets).

†Dimensions are listed in Operating Specification charts.

All height and tire related dimensions are with Michelin 23.5R25 XHA2 L3 radial tires (see Tire Option Chart for other tires). "Width Over Tires" dimensions are over the bulge and include growth.

950M Wheel Loader Specifications

Tire Options

Tire Brand	Michelin	Bridgestone	Goodyear	Bridgestone	Michelin	Michelin
Tire Size	23.5R25	23.5R25	23.5R25	23.5R25	750/65R25	23.5R25
Tread Type	L-3	L-3	L-3	L-3	L-3	L-3
Tread Pattern	XHA2	VMT	RT-3B	VJT	XLD	XLD D2
Width over Tires – Maximum (empty)*	2814 mm 9'2"	2805 mm 9'2"	2835 mm 9'4"	2798 mm 9'2"	2498 mm 8'2"	2817 mm 9'2"
Width over Tires – Maximum (loaded)*	2822 mm 9'3"	2834 mm 9'4"	2846 mm 9'4"	2831 mm 9'3"	2965 mm 8'8"	2833 mm 9'3"
Change in Vertical Dimensions (average of front and rear)	0 mm 0"	-3 mm -0.1"	-1 mm 0"	-6 mm -0.2"	-6 mm -0.2"	28 mm 1.1"
Change in Horizontal Reach	0 mm 0"	6 mm 0.2"	3 mm 0.1"	6 mm 0.2"	11 mm 0.4"	-25 mm -1"
Change in Clearance Circle (radius) to Outside of Tires	0 mm 0"	12 mm 0.5"	24 mm 1"	9 mm 0.4"	143 mm 5.6"	5 mm 1.2"
Change in Clearance Circle (radius) to Inside of Tires	0 mm 0"	-12 mm -0.5"	-24 mm -1"	-9 mm -0.4"	-143 mm -5.6"	-5 mm -1.2"
Change in Operating Weight (without Ballast)	0 kg 0 lb	188 kg 414 lb	127 kg 280 lb	168 kg 370 lb	801 kg 1,766 lb	668 kg 1,473 lb
Change in Static Tipping Load – Straight	0 kg 0 lb	125 kg 276 lb	85 kg 187 lb	112 kg 247 lb	534 kg 1,177 lb	446 kg 983 lb
Change in Static Tipping Load – Articulated	0 kg 0 lb	109 kg 240 lb	74 kg 163 lb	98 kg 216 lb	466 kg 1,027 lb	389 kg 858 lb

*Width over bulge and includes tire growth.

950M Wheel Loader Specifications

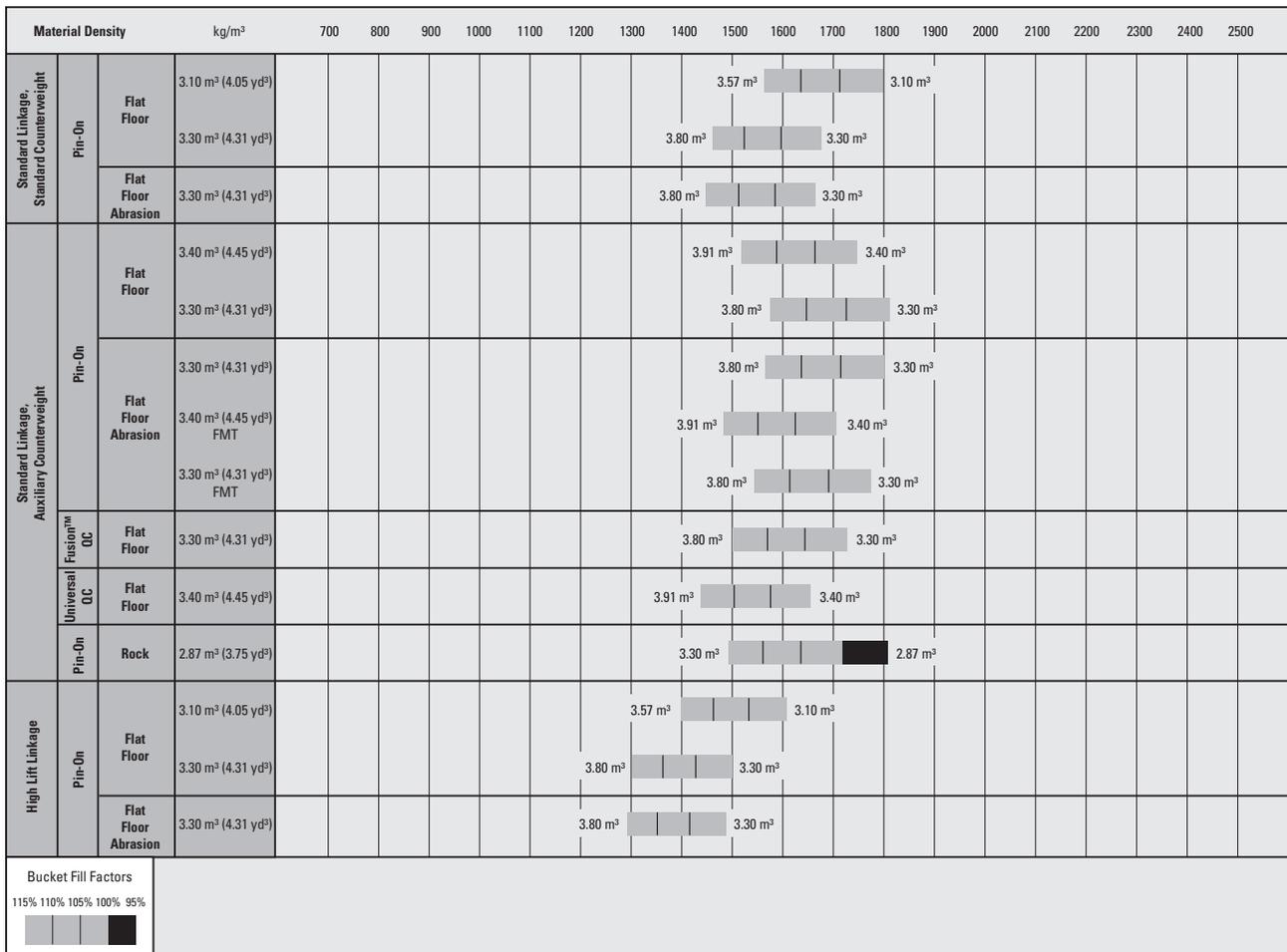
Bucket Fill Factors and Selection Chart

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		Material Density	Fill Factor (%)*
Earth/Clay		1500-1700 kg/m ³	115
Sand and Gravel		1500-1700 kg/m ³	115
Aggregate:	25-76 mm	1600-1700 kg/m ³	110
	19 mm and smaller	1800 kg/m ³	105
Rock:	76 mm and larger	1600 kg/m ³	100

*As a % of ISO 7546 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.

QC=Quick Coupler

950M Wheel Loader Specifications

Operating Specifications – Buckets

Machine		Standard Linkage, Standard Counterweight						
Bucket Type		Flat Floor – Pin-On			Flat Floor Abrasion – Pin-On			High Lift Linkage Change
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Teeth and Segments	
Capacity – Rated	m ³	3.10	3.10	3.20	3.30	3.30	3.30	
	yd ³	4.00	4.00	4.50	4.50	4.50	4.50	
Capacity – Rated at 110% Fill Factor	m ³	3.40	3.40	3.60	3.60	3.60	3.60	
	yd ³	4.50	4.50	4.75	4.75	4.75	4.75	
Width	mm	2927	2994	2927	2994	2927	2994	
	ft/in	9'7"	9'8"	9'7"	9'8"	9'7"	9'8"	
16 † Dump Clearance at Maximum Lift and 45° Discharge	mm	2821	2696	2789	2664	2789	2664	505
	ft/in	9'3"	9'0"	9'2"	8'7"	9'2"	8'7"	1'7"
17 † Reach at Maximum Lift and 45° Discharge	mm	1346	1448	1378	1480	1378	1480	35
	ft/in	4'4"	4'8"	4'5"	4'9"	4'5"	4'9"	1"
Reach at Level Lift Arm and Bucket Level	mm	2686	2849	2731	2892	2731	2892	374
	ft/in	8'9"	9'3"	9'0"	9'5"	9'0"	9'5"	1'2"
A † Digging Depth	mm	90	90	90	90	90	90	4
	in	3.5"	3.5"	3.5"	3.5"	3.5"	3.5"	0.1"
12 † Overall Length	mm	8197	8370	8242	8415	8242	8415	583
	ft/in	26'11"	27'5"	27'0"	27'6"	27'0"	27'6"	1'11"
B † Overall Height with Bucket at Maximum Lift	mm	5483	5483	5527	5527	5536	5536	506
	ft/in	18'0"	18'0"	18'1"	18'1"	18'1"	18'2"	1'8"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	13 761	13 930	13 787	13 957	13 787	13 957	393
	ft/in	45'1"	45'7"	45'2"	45'8"	45'2"	45'8"	1'3"
Static Tipping Load, Straight (With Tire Deflection)*	kg	12 624	12 484	12 533	12 393	12 458	12 315	-1277
	lb	27,831	27,523	27,631	27,322	27,466	27,150	-2,815
Static Tipping Load, Straight (No Tire Deflection)*	kg	13 345	13 204	13 256	13 114	13 181	13 037	-1436
	lb	29,421	29,110	29,224	28,911	29,059	28,742	-3,165
Static Tipping Load, Articulated (With Tire Deflection)*	kg	10 878	10 738	10 791	10 651	10 716	10 574	-1184
	lb	23,982	23,673	23,790	23,481	22,434	23,312	-2,610
Static Tipping Load, Articulated (No Tire Deflection)*	kg	11 613	11 472	11 528	11 387	11 454	11 310	-1333
	lb	25,602	25,291	25,415	25,104	25,251	24,934	-2,939
Breakout Force	kN	181	180	174	173	174	172	-9
	lbf	40,706	40,466	39,117	38,892	39,117	38,667	-2,026
Operating Weight*	kg	19 221	19 329	19 269	19 377	19 340	19 448	603
	lb	42,375	42,613	42,481	42,719	42,637	42,876	1,328

*Static tipping loads and operating weights are based on a machine configuration with Michelin 23.5R25 XHA2 L3 radial tires, full fluids, operator, auxiliary counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering and sound suppression. (With Tire Deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

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

†Illustration shown with Dimension charts.

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

QC=Quick Coupler

950M Wheel Loader Specifications

Operating Specifications – Buckets

Machine		Standard Linkage, Auxiliary Counterweight					
Bucket Type		Flat Floor – Pin-On				Flat Floor – Fusion™ QC	Flat Floor – Universal QC
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Bolt-On Cutting Edges
Capacity – Rated	m ³	3.40	3.40	3.30	3.30	3.30	3.40
	yd ³	4.50	4.50	4.50	4.50	4.50	4.50
Capacity – Rated at 110% Fill Factor	m ³	3.70	3.70	3.60	3.60	3.60	3.70
	yd ³	5.00	5.00	4.75	4.75	4.75	5.00
Width	mm	2927	2994	2927	2994	2927	2927
	ft/in	9'7"	9'9"	9'7"	9'8"	9'7"	9'7"
16† Dump Clearance at Maximum Lift and 45° Discharge	mm	2761	2636	2789	2664	2747	2675
	ft/in	8'1"	8'6"	9'2"	8'7"	9'0"	8'8"
17† Reach at Maximum Lift and 45° Discharge	mm	1406	1508	1378	1480	1420	1492
	ft/in	4'6"	4'9"	4'5"	4'9"	4'7"	4'9"
Reach at Level Lift Arm and Bucket Level	mm	2771	2932	2731	2892	2791	2893
	ft/in	9'1"	9'6"	9'0"	9'5"	9'2"	9'5"
A† Digging Depth	mm	90	90	90	90	90	90
	in	3.5"	3.5"	3.5"	3.5"	3.5"	3.5"
12† Overall Length	mm	8411	8584	8371	8544	8431	8533
	ft/in	27'6"	28'2"	27'0"	28'0"	27'7"	28'0"
B† Overall Height with Bucket at Maximum Lift	mm	5566	5566	5527	5527	5561	5627
	ft/in	18'3"	18'3"	18'1"	18'1"	18'2"	18'5"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	13 811	13 981	13 787	13 957	13 815	13 868
	ft/in	45'3"	45'9"	45'2"	45'8"	45'3"	45'5"
Static Tipping Load, Straight (With Tire Deflection)*	kg	13 482	13 341	13 563	13 423	12 994	12 822
	lb	29,722	29,412	29,901	29,593	28,647	28,268
Static Tipping Load, Straight (No Tire Deflection)*	kg	14 278	14 136	14 358	14 216	13 778	13 594
	lb	31,478	31,165	31,654	31,341	30,375	29,970
Static Tipping Load, Articulated (With Tire Deflection)*	kg	11 564	11 423	11 641	11 501	11 101	10 960
	lb	25,494	25,183	25,664	25,355	24,474	24,163
Static Tipping Load, Articulated (No Tire Deflection)*	kg	12,380	12 238	12 455	12 314	11 904	11 753
	lb	27,293	26,980	27,459	27,148	26,248	25,911
Breakout Force	kN	170	169	174	173	166	154
	lbf	37,993	37,543	39,117	38,892	37,318	34,621
Operating Weight*	kg	19 917	19 917	19 769	19 877	20 218	20 076
	lb	43,909	43,909	41,379	43,821	44,573	44,260

*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 23.5R25 XHA2 L3 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering and sound suppression.

**Maximum values.

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

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

†Illustration shown with Dimension charts.

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

950M Wheel Loader Specifications

Operating Specifications – Buckets

Machine		Standard Linkage, Auxiliary Counterweight				
Bucket Type		Flat Floor Abrasion – Pin-On			Rock – Pin-On	
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Flush Mounted Teeth	Flush Mounted Teeth	Teeth and Segments
Capacity – Rated	m ³	3.30	3.30	3.40	3.30	2.90
	yd ³	4.50	4.50	4.50	4.50	3.75
Capacity – Rated at 110% Fill Factor	m ³	3.60	3.60	3.70	3.60	3.20
	yd ³	4.75	4.75	5.00	4.75	4.25
Width	mm	2927	2994	2994	2994	2969
	ft/in	9'7"	9'8"	9'8"	9'8"	9'7"
16 † Dump Clearance at Maximum Lift and 45° Discharge	mm	2789	2664	2598	2633	2695
	ft/in	9'2"	8'7"	8'5"	8'6"	8'8"
17 † Reach at Maximum Lift and 45° Discharge	mm	1378	1480	1588	1552	1636
	ft/in	4'5"	4'9"	5'2"	5'1"	5'4"
Reach at Level Lift Arm and Bucket Level	mm	2731	2892	3015	2965	2950
	ft/in	9'0"	9'5"	9'9"	9'7"	9'7"
A † Digging Depth	mm	90	90	63	63	93
	in	3.5"	3.5"	2.5"	2.5"	3.7"
12 † Overall Length	mm	8371	8544	8645	8595	8630
	ft/in	27'0"	28'0"	28'4"	28'2"	28'3"
B † Overall Height with Bucket at Maximum Lift	mm	5536	5536	5621	5574	5442
	ft/in	18'2"	18'2"	18'4"	18'3"	19'9"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	13 787	13 957	14 009	13 978	14 003
	ft/in	45'2"	45'8"	46'0"	45'9"	45'9"
Static Tipping Load, Straight (With Tire Deflection)*	kg	13 488	13 345	13 230	13 344	14 059
	lb	29,736	29,421	29,167	29,419	30,995
Static Tipping Load, Straight (No Tire Deflection)*	kg	14 283	14 139	14 035	14 146	14 900
	lb	31,489	31,171	30,942	31,187	32,849
Static Tipping Load, Articulated (With Tire Deflection)*	kg	11 566	11 424	11 302	11 411	12 050
	lb	25,500	25,186	24,917	25,157	26,566
Static Tipping Load, Articulated (No Tire Deflection)*	kg	12 381	12 236	12 126	12 233	12 911
	lb	27,295	26,976	26,733	26,969	28,464
Breakout Force	kN	174	172	171	179	172
	lbf	39,117	38,667	38,442	40,241	38,667
Operating Weight*	kg	19 840	19 948	20 109	20 049	20 517
	lb	43,740	43,978	44,333	44,200	45,232

*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 23.5R25 XHA2 L3 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering and sound suppression.

**Maximum values.

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

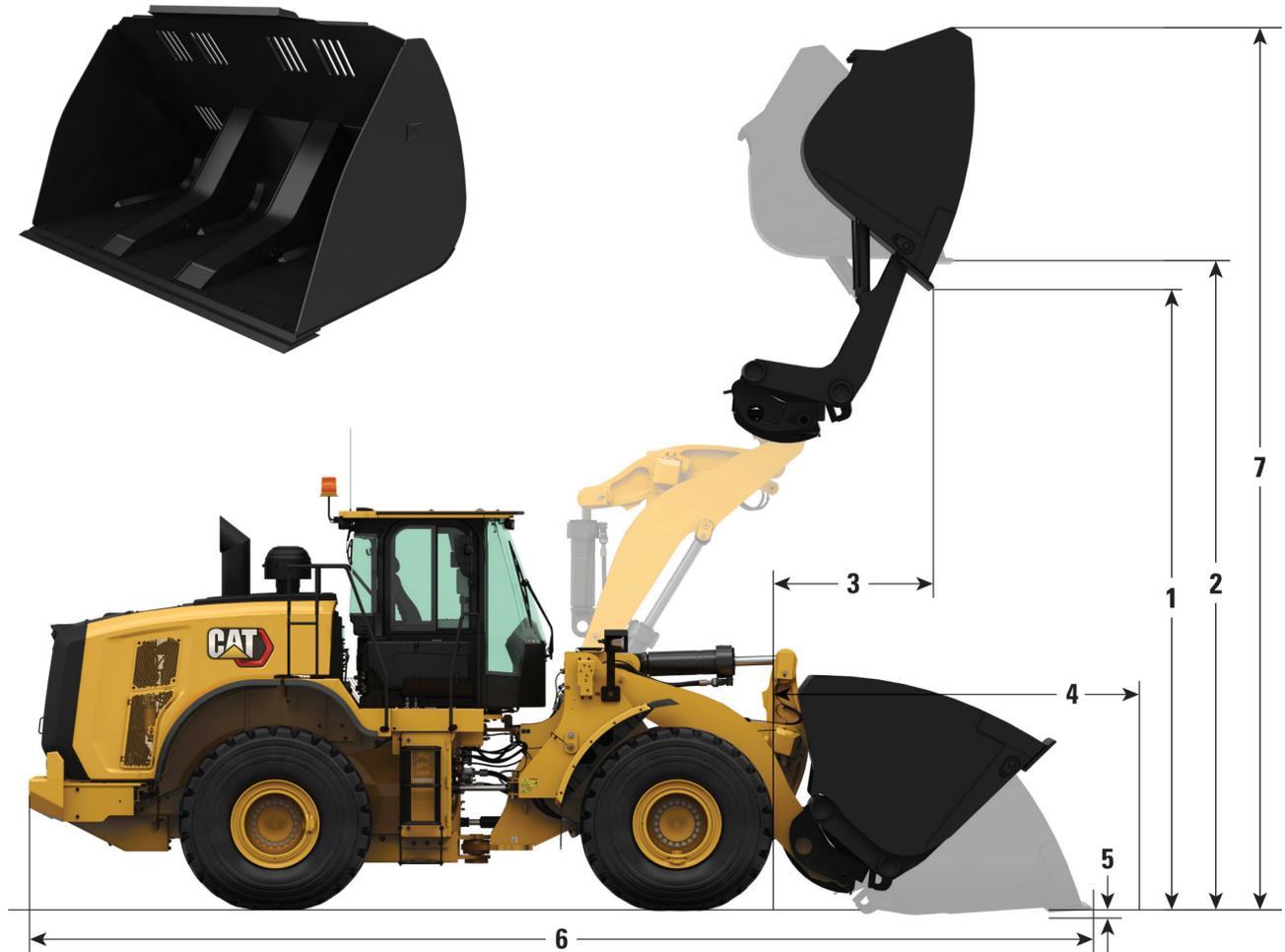
†Illustration shown with Dimension charts.

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

950M Wheel Loader Specifications

Light Material High Dump Buckets

All dimensions are approximate.



Bucket Key Features

- High Dump bucket increases dump height 2.2 m (7'3") for largest size available on 950M
- High capacity available in Pin-on or Fusion coupler interface
- Ideal for low density and free flowing materials like wood chips and pellets
- Narrow tilt frame provides excellent cutting edge rigidity
- Adjustable windows provide a variety of configurations depending on the material being moved
- Requires 3rd valve hydraulics

950M Wheel Loader Specifications

Operating Specifications – Light Material High Dump Bucket – Standard Counterweight

Package		950M Standard								
Bucket Type		Pin-On			Fusion			ISO		
Edge Type		Bolt-On Cutting Edges								
Capacity – Rated	m ³	6.10	7.60	9.20	6.10	7.60	9.20	6.10	7.60	9.20
	yd ³	8.00	10.00	12.00	8.00	10.00	12.00	8.00	10.00	12.00
Capacity – Rated at 110% Fill Factor	m ³	6.70	8.40	10.10	6.70	8.40	10.10	6.70	8.40	10.10
	yd ³	8.75	11.00	13.25	8.75	11.00	13.25	8.75	11.00	13.25
Width	mm	3037	3350	3350	3037	3350	3350	3037	3350	3350
	ft/in	9'11"	10'11"	10'11"	9'11"	10'11"	10'11"	9'11"	10'11"	10'11"
1 Dump Clearance at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	4543	4473	4332	4599	4528	4387	4611	4541	4400
	ft/in	14'10"	14'8"	14'2"	15'1"	14'10"	14'4"	15'1"	14'10"	14'5"
2 Clearance at Max Lift, Max Rack, Bucket Rolled out to Level	mm	4969	4969	4969	5025	5025	5025	5038	5038	5038
	ft/in	16'3"	16'3"	16'3"	16'5"	16'5"	16'5"	16'6"	16'6"	16'6"
3 Reach at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	1826	1899	2040	1862	1933	2074	1868	1940	2082
	ft/in	5'11"	6'2"	6'8"	6'1"	6'4"	6'9"	6'1"	6'4"	6'9"
4 Reach at Level Lift Arm and Bucket Level	mm	3372	3472	3672	3437	3537	3737	3452	3552	3752
	ft/in	11'0"	11'4"	12'0"	11'3"	11'7"	12'3"	11'3"	11'7"	12'3"
5 Digging Depth	mm	59	59	59	59	59	59	59	59	59
	ft/in	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"
6 Overall Length	mm	8882	8982	9182	8947	9047	9247	8962	9062	9262
	ft/in	29'2"	29'6"	30'2"	29'5"	29'9"	30'5"	29'5"	29'9"	30'5"
7 Overall Height with Bucket at Max Height and Max Rack	mm	6843	6882	7034	6898	6937	7089	6911	6950	7102
	ft/in	22'5"	22'6"	23'0"	22'7"	22'9"	23'3"	22'8"	22'9"	23'3"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7001	7171	7239	7022	7192	7262	7025	7197	7267
	ft/in	23'0"	23'6"	23'9"	23'0"	23'7"	23'10"	23'1"	23'7"	23'10"
Static Tipping Load, Straight (With Tire Deflection)*	kg	10 801	10 488	10 164	10 159	9851	9536	10 266	9956	9641
	lb	21,249	20,586	19,917	19,889	19,235	18,584	20,159	19,502	18,848
Static Tipping Load, Straight (No Tire Deflection)*	kg	11 556	11 243	10 922	10 898	10 589	10 277	11 002	10 692	10 380
	lb	22,563	21,902	21,240	21,179	20,526	19,881	21,446	20,789	20,141
Static Tipping Load, Articulated (With Tire Deflection)*	kg	9132	8829	8522	8516	8218	7920	8629	8329	8030
	lb	17,752	17,109	16,474	16,440	15,806	15,188	16,721	16,083	15,463
Static Tipping Load, Articulated (No Tire Deflection)*	kg	9895	9592	9288	9263	8964	8669	9373	9072	8776
	lb	19,106	18,465	17,837	17,771	17,137	16,525	18,048	17,411	16,796
Breakout Force	kN	116	108	97	111	104	93	110	103	92
	lbf	24,747	23,123	20,598	23,678	22,141	19,766	23,430	21,913	19,569
Operating Weight*	kg	20 393	20 622	20 795	20 959	21 189	21 361	20 738	20 968	21 141
	lb	46,273	46,778	47,159	47,520	48,027	48,406	47,033	47,540	47,922

*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 23.5R25 XHA2 L3 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering and sound suppression.

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

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

950M Wheel Loader Specifications

Operating Specifications – Light Material High Dump Bucket – Auxiliary Counterweight

Package		950M Auxiliary								
Bucket Type		Pin-On			Fusion			ISO		
Edge Type		Bolt-On Cutting Edges								
Capacity – Rated	m ³	6.10	7.60	9.20	6.10	7.60	9.20	6.10	7.60	9.20
	yd ³	8.00	10.00	12.00	8.00	10.00	12.00	8.00	10.00	12.00
Capacity – Rated at 110% Fill Factor	m ³	6.70	8.40	10.10	6.70	8.40	10.10	6.70	8.40	10.10
	yd ³	8.75	11.00	13.25	8.75	11.00	13.25	8.75	11.00	13.25
Width	mm	3037	3350	3350	3037	3350	3350	3037	3350	3350
	ft/in	9'11"	10'11"	10'11"	9'11"	10'11"	10'11"	9'11"	10'11"	10'11"
1 Dump Clearance at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	4543	4473	4332	4599	4528	4387	4611	4541	4400
	ft/in	14'10"	14'8"	14'2"	15'1"	14'10"	14'4"	15'1"	14'10"	14'5"
2 Clearance at Max Lift, Max Rack, Bucket Rolled out to Level	mm	4969	4969	4969	5025	5025	5025	5038	5038	5038
	ft/in	16'3"	16'3"	16'3"	16'5"	16'5"	16'5"	16'6"	16'6"	16'6"
3 Reach at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	1826	1899	2040	1862	1933	2074	1868	1940	2082
	ft/in	5'11"	6'2"	6'8"	6'1"	6'4"	6'9"	6'1"	6'4"	6'9"
4 Reach at Level Lift Arm and Bucket Level	mm	3372	3472	3672	3437	3537	3737	3452	3552	3752
	ft/in	11'0"	11'4"	12'0"	11'3"	11'7"	12'3"	11'3"	11'7"	12'3"
5 Digging Depth	mm	59	59	59	59	59	59	59	59	59
	ft/in	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"
6 Overall Length	mm	9011	9111	9311	9076	9176	9376	9091	9191	9391
	ft/in	29'2"	29'6"	30'2"	29'5"	29'9"	30'5"	29'5"	29'9"	30'5"
7 Overall Height with Bucket at Max Height and Max Rack	mm	6843	6882	7034	6898	6937	7089	6911	6950	7102
	ft/in	22'5"	22'6"	23'0"	22'7"	22'9"	23'3"	22'8"	22'9"	23'3"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7001	7171	7239	7022	7192	7262	7025	7197	7267
	ft/in	23'0"	23'6"	23'9"	23'0"	23'7"	23'10"	23'1"	23'7"	23'10"
Static Tipping Load, Straight (With Tire Deflection)*	kg	11 783	11 463	11 127	11 126	10 811	10 485	11 230	10 913	10 586
	lb	21,249	20,586	19,917	19,889	19,235	18,584	20,159	19,502	18,848
Static Tipping Load, Straight (No Tire Deflection)*	kg	12 616	12 296	11 965	11 941	11 627	11 304	12 042	11 725	11 403
	lb	22,563	21,902	21,240	21,179	20,526	19,881	21,446	20,789	20,141
Static Tipping Load, Articulated (With Tire Deflection)*	kg	9942	9633	9316	9313	9009	8701	9423	9117	8809
	lb	17,752	17,109	16,474	16,440	15,806	15,188	16,721	16,083	15,463
Static Tipping Load, Articulated (No Tire Deflection)*	kg	10 786	10 478	10 165	10 140	9836	9532	10 247	9941	9637
	lb	19,106	18,465	17,837	17,771	17,137	16,525	18,048	17,411	16,796
Breakout Force	kN	116	108	97	111	104	93	110	103	92
	lbf	24,747	23,123	20,598	23,678	22,141	19,766	23,430	21,913	19,569
Operating Weight*	kg	20 893	21 122	21 295	21 459	21 689	21 861	21 238	21 468	21 641
	lb	46,273	46,778	47,159	47,520	48,027	48,406	47,033	47,540	47,922

*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 26.5R25 XHA2 L3 radial tires, full fluids, operator, auxiliary counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering and sound suppression.

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

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

950M Wheel Loader Specifications

Operating Specifications – Light Material High Dump Bucket – High Lift Linkage

Package		950M High Lift								
Bucket Type		Pin-On			Fusion			ISO		
Edge Type		Bolt-On Cutting Edges								
Capacity – Rated	m ³	6.10	7.60	9.20	6.10	7.60	9.20	6.10	7.60	9.20
	yd ³	8.00	10.00	12.00	8.00	10.00	12.00	8.00	10.00	12.00
Capacity – Rated at 110% Fill Factor	m ³	6.70	8.40	10.10	6.70	8.40	10.10	6.70	8.40	10.10
	yd ³	8.75	11.00	13.25	8.75	11.00	13.25	8.75	11.00	13.25
Width	mm	3037	3350	3350	3037	3350	3350	3037	3350	3350
	ft/in	9'11"	10'11"	10'11"	9'11"	10'11"	10'11"	9'11"	10'11"	10'11"
1 Dump Clearance at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	5005	4934	4792	5059	4988	4846	5072	5001	4859
	ft/in	14'10"	14'8"	14'2"	15'1"	14'10"	14'4"	15'1"	14'10"	14'5"
2 Clearance at Max Lift, Max Rack, Bucket Rolled out to Level	mm	5432	5432	5432	5486	5486	5486	5499	5499	5499
	ft/in	16'3"	16'3"	16'3"	16'5"	16'5"	16'5"	16'6"	16'6"	16'6"
3 Reach at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	1855	1924	2060	1892	1960	2096	1901	1969	2105
	ft/in	5'11"	6'2"	6'8"	6'1"	6'4"	6'9"	6'1"	6'4"	6'9"
4 Reach at Level Lift Arm and Bucket Level	mm	3747	3847	4047	3812	3912	4112	3827	3927	4127
	ft/in	11'0"	11'4"	12'0"	11'3"	11'7"	12'3"	11'3"	11'7"	12'3"
5 Digging Depth	mm	63	63	63	63	63	63	63	63	63
	ft/in	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"
6 Overall Length	mm	9465	9565	9765	9530	9630	9830	9545	9645	9845
	ft/in	29'2"	29'6"	30'2"	29'5"	29'9"	30'5"	29'5"	29'9"	30'5"
7 Overall Height with Bucket at Max Height and Max Rack	mm	7309	7348	7500	7363	7402	7554	7375	7414	7566
	ft/in	22'5"	22'6"	23'0"	22'7"	22'9"	23'3"	22'8"	22'9"	23'3"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7210	7378	7448	7222	7390	7460	7214	7382	7452
	ft/in	23'8"	24'2"	24'5"	23'8"	24'3"	24'6"	23'8"	24'3"	24'5"
Static Tipping Load, Straight (With Tire Deflection)*	kg	9641	9340	9036	9024	8727	8432	9146	8848	8552
	lb	21,249	20,586	19,917	19,889	19,235	18,584	20,159	19,502	18,848
Static Tipping Load, Straight (No Tire Deflection)*	kg	10,237	9937	9637	9609	9313	9020	9730	9432	9138
	lb	22,563	21,902	21,240	21,179	20,526	19,881	21,446	20,789	20,141
Static Tipping Load, Articulated (With Tire Deflection)*	kg	8054	7763	7474	7459	7171	6891	7586	7297	7015
	lb	17,752	17,109	16,474	16,440	15,806	15,188	16,721	16,083	15,463
Static Tipping Load, Articulated (No Tire Deflection)*	kg	8669	8378	8093	8063	7775	7497	8188	7899	7621
	lb	19,106	18,465	17,837	17,771	17,137	16,525	18,048	17,411	16,796
Breakout Force	kN	110	102	91	105	98	87	104	97	87
	lbf	24,747	23,123	20,598	23,678	22,141	19,766	23,430	21,913	19,569
Operating Weight*	kg	20,995	21,224	21,397	21,561	21,791	21,963	21,340	21,570	21,743
	lb	46,273	46,778	47,159	47,520	48,027	48,406	47,033	47,540	47,922

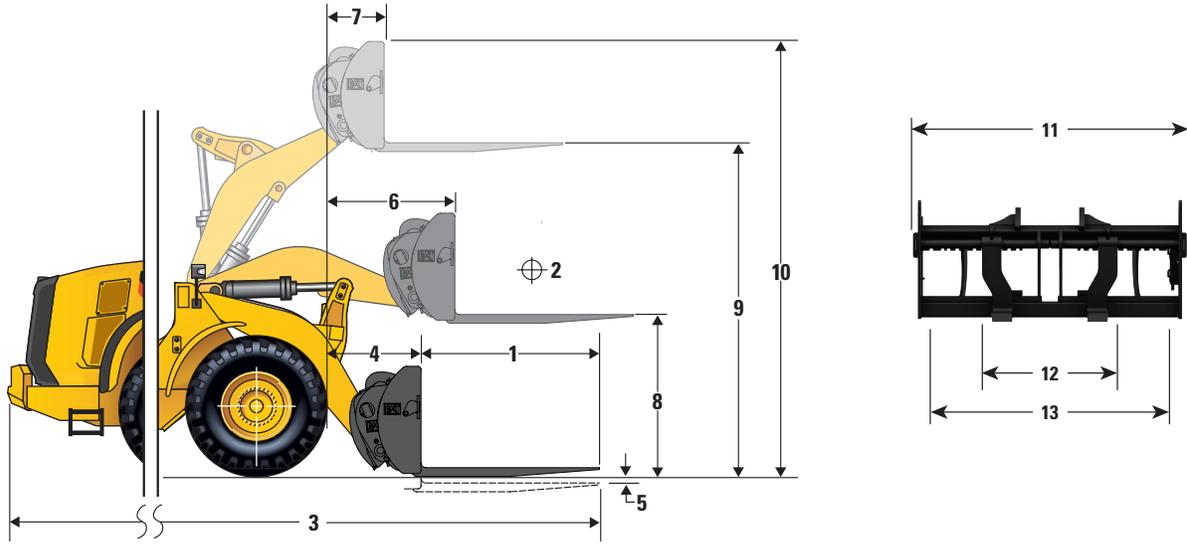
*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 23.5R25 XHA2 L3 radial tires, full fluids, operator, auxiliary counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering and sound suppression.

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

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

950M Wheel Loader Specifications

Operating Specifications – 2 438 mm (96") Construction Fork



Construction Fork – Fusion

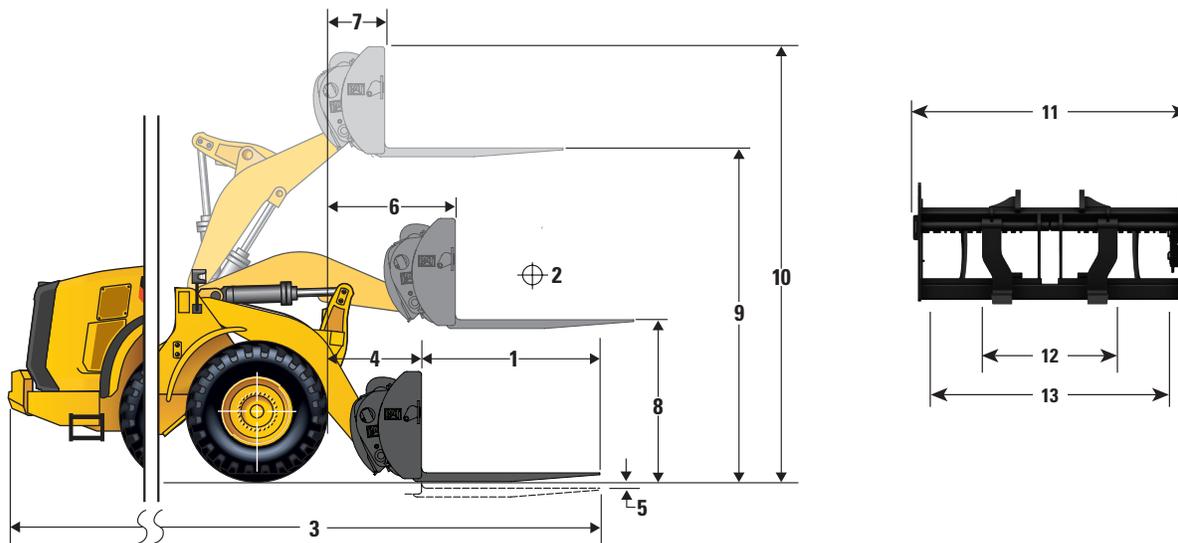
	1219 mm (48") Tines		1524 mm (60") Tines		1829 mm (72") Tines		2134 mm (84") Tines		2438 mm (96") Tines	
	mm	ft'in"								
1 Fork Tine Length	1220	4'0"	1524	5'0"	1830	6'0"	2134	7'0"	2438	7'11"
2 Load Center	610	2'0"	762	2'6"	915	3'0"	1067	3'6"	1220	4'0"
3 Overall Length	8515	27'11"	8820	28'11"	9125	29'11"	9430	30'11"	9734	31'11"
4 Reach at Ground	1197	3'11"	1198	3'11"	1198	3'11"	1198	3'11"	1198	3'11"
5 Dig Depth	24	0.9"	24	0.9"	24	0.9"	24	0.9"	24	0.9"
6 Reach with Level Arm	1738	5'8"	1738	5'8"	1738	5'8"	1738	5'8"	1738	5'8"
7 Reach at Full Lift	1023	3'4"	1023	3'4"	1023	3'4"	1023	3'4"	1023	3'4"
8 Clearance with Level Arm	1890	6'2"	1890	6'2"	1890	6'2"	1890	6'2"	1890	6'2"
9 Clearance at Full Lift	3825	12'7"	3825	12'7"	3825	12'7"	3825	12'7"	3825	12'7"
10 Overall Height	4866	16'0"	4866	16'0"	4866	16'0"	4866	16'0"	4866	16'0"
11 Carriage Width	2528	8'4"	2528	8'4"	2528	8'4"	2528	8'4"	2528	8'4"
12 Minimum Fork Spacing	576	1'11"	576	1'11"	576	1'11"	576	1'11"	576	1'11"
13 Maximum Fork Spacing	2178	7'2"	2178	7'2"	2178	7'2"	2178	7'2"	2178	7'2"
Tine Width	180	7"	180	7"	180	7"	180	7"	180	7"
Tine Thickness	90	3.5"	90	3.5"	90	3.5"	90	3.5"	90	3.5"
	kg	lb								
Load Capacity (per pair)	22 200	48,951	17 800	39,249	14 800	32,634	12 700	28,004	11 300	24,917
Tipping Load – Straight*	9700	21,389	9192	20,268	8726	19,241	8293	18,286	7892	17,402
Tipping Load – Full Turn*	8376	18,469	7927	17,479	7517	16,575	7134	15,730	6779	14,948
Operating Weight	19 212	42,362	19 278	42,508	19 339	42,642	19 402	42,781	19 464	42,918
Rated Load % of Full Turn Tip:										
50% of Tip**	4188	9,235	3964	8,741	3758	8,286	3567	7,865	3390	7,475
60% of Tip (rough terrain)	5025	11,080	4756	10,487	4510	9,945	4280	9,437	4067	8,968
80% of Tip (firm and level)	6700	14,774	6342	13,984	6014	13,261	5707	12,584	5423	11,958

*ISO 14397-1:2007

**SAE J1197 – 50% of full turn static tipping load or hydraulic limit.

950M Wheel Loader Specifications

Operating Specifications – 2743 mm (108") Construction Fork



Construction Fork - Fusion

	1219 mm (48") Tines		1524 mm (60") Tines		1829 mm (72") Tines		2134 mm (84") Tines		2438 mm (96") Tines	
	mm	ft'in"								
1 Fork Tine Length	1220	4'0"	1524	5'0"	1830	6'0"	2134	7'0"	2438	7'11"
2 Load Center	610	2'0"	762	2'6"	915	3'0"	1067	3'6"	1220	4'0"
3 Overall Length	8515	27'11"	8820	28'11"	9125	29'11"	9430	30'11"	9734	31'11"
4 Reach at Ground	1197	3'11"	1197	3'11"	1197	3'11"	1197	3'11"	1197	3'11"
5 Dig Depth	24	0.9"	24	0.9"	24	0.9"	24	0.9"	24	0.9"
6 Reach with Level Arm	1738	5'8"	1738	5'8"	1738	5'8"	1738	5'8"	1738	5'8"
7 Reach at Full Lift	1023	3'4"	1023	3'4"	1023	3'4"	1023	3'4"	1023	3'4"
8 Clearance with Level Arm	1890	6'2"	1890	6'2"	1890	6'2"	1890	6'2"	1890	6'2"
9 Clearance at Full Lift	3825	12'7"	3825	12'7"	3825	12'7"	3825	12'7"	3825	12'7"
10 Overall Height	4866	16'0"	4866	16'0"	4866	16'0"	4866	16'0"	4866	16'0"
11 Carriage Width	2833	9'4"	2833	9'4"	2833	9'4"	2833	9'4"	2833	9'4"
12 Minimum Fork Spacing	590	1'11"	590	1'11"	590	1'11"	590	1'11"	590	1'11"
13 Maximum Fork Spacing	2493	8'2"	2493	8'2"	2493	8'2"	2493	8'2"	2493	8'2"
Tine Width	180	7"	180	7"	180	7"	180	7"	180	7"
Tine Thickness	90	3.5"	90	3.5"	90	3.5"	90	3.5"	90	3.5"
	kg	lb								
Load Capacity (per pair)	22 200	48,951	17 800	39,249	14 800	32,634	12 700	28,004	11 300	24,917
Tipping Load – Straight*	9659	21,298	9154	20,185	8689	19,159	8259	18,211	7858	17,327
Tipping Load – Full Turn*	8335	18,379	7889	17,395	7479	16,491	7098	15,651	6744	14,871
Operating Weight	19 265	42,479	19 327	42,616	19 389	42,753	19 451	42,889	19 514	43,028
Rated Load % of Full Turn Tip:										
50% of Tip**	4168	9,190	3944	8,697	3739	8,244	3549	7,826	3372	7,435
60% of Tip (rough terrain)	5001	11,027	4733	10,436	4487	9,894	4259	9,391	4047	8,924
80% of Tip (firm and level)	6668	14,703	6311	13,916	5983	13,193	5679	12,522	5371	11,843

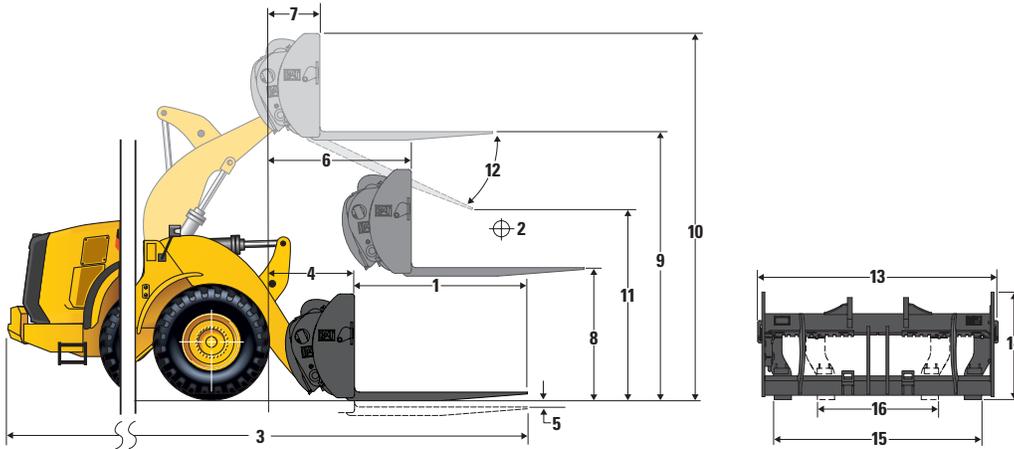
*ISO 14397-1:2007

**SAE J1197 – 50% of full turn static tipping load or hydraulic limit.

950M Wheel Loader Specifications

Operating Specifications with Pallet Fork

All dimensions are approximate.



Interface	Auxiliary Counterweight	
	Fusion QC	
1 Tine Length	1524 mm	5'0"
2 Load Center	762 mm	2'6"
3 Maximum Overall Length	8949 mm	29'4"
4 Reach with Forks at Ground Level	1198 mm	3'9"
5 Ground to Top of Tine at Minimum Height and Fork Level	23 mm	0.9"
6 Reach with Arms Horizontal and Forks Level	1738 mm	5'7"
7 Reach with Fork at Maximum Height	1023 mm	3'4"
8 Ground to Top of Tine with Arms Horizontal and Fork Level	1889 mm	6'2"
9 Ground to Top of Tine at Maximum Height and Fork Level	3824 mm	12'5"
10 Overall Height of Fork at Full Lift (top of carriage to ground)	4865 mm	16'0"
11 Clearance at Full Lift and Maximum Dump	2284 mm	7'5"
12 Maximum Discharge Angle from Horizontal	53°	53°
13 Overall Carriage Width	2528 mm	8'3"
14 Overall Carriage Height	1130 mm	3'7"
15 Outside Tine Width (maximum spread)	2178 mm	7'1"
16 Outside Tine Width (minimum spread)	576 mm	1'9"
Tine Width (single tine)	180 mm	0.6"
Tine Thickness	90 mm	0.3"
Tine Capacity	17 800 kg	39,242 lb
Static Tipping Load – Straight (Forks Level)*	9955 kg	21,947 lb
Static Tipping Load – Articulated (Forks Level)*	8558 kg	18,867 lb
Rated Load (SAE J1197 – 50% FTSTL)**	4279 kg	9,434 lb
Rated Load (CEN EN 474-3 Rough Terrain – 60% FTSTL)**	5135 kg	11,321 lb
Rated Load (CEN EN 474-3 Firm and Level Ground – 80% FTSTL)**	6846 kg	15,093 lb
Operating Weight*	19 777 kg	43,601 lb

*Static tipping loads and operating weights are based on L3 Michelin XHA tires, air conditioning, ride control, power train guard, full fluids, fuel tank, coolant, lubricants, and operator.

**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

Refer to the Forks Product Bulletins for capacity load charts.

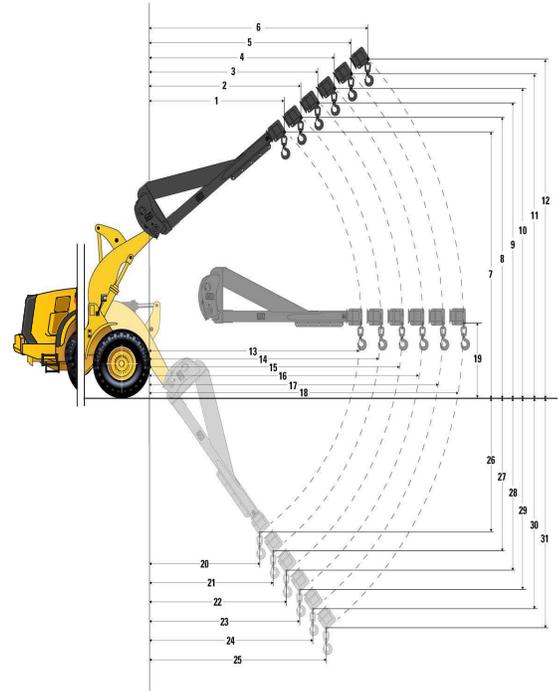
Additional forks are available and offerings vary by region. Consult your local Cat dealer for further details.

QC=Quick Coupler

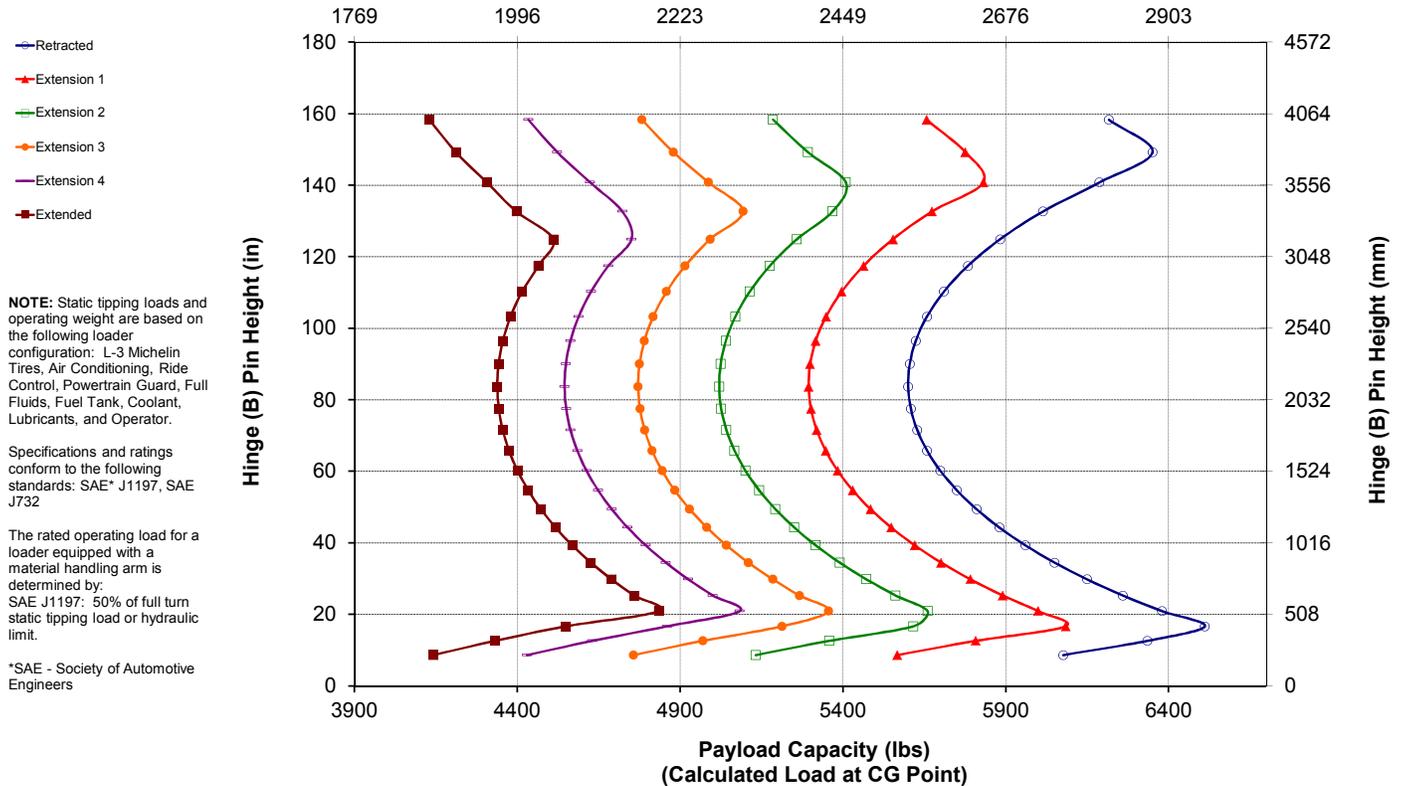
950M Wheel Loader Specifications

Material Handling Arm – Standard Fusion

MHA Specifications		Retracted	Extension 1	Extension 2	Extension 3	Extension 4	Extended
Max Lift - Hook Reach (1, 2, 3, 4, 5, 6)	mm	2,280	2,417	2,555	2,693	2,830	2,968
	ft, in	7' 5"	7' 11"	8' 4"	8' 10"	9' 3"	9' 8"
Max Lift - Hook Height (7, 8, 9, 10, 11, 12)	mm	6,855	7,127	7,399	7,671	7,943	8,215
	ft, in	22' 5"	23' 4"	24' 3"	25' 2"	26' 0"	26' 11"
Level - Hook Reach (13, 14, 15, 16, 17, 18)	mm	4,594	4,899	5,204	5,509	5,813	6,118
	ft, in	15' 0"	16' 0"	17' 0"	18' 0"	19' 0"	20' 0"
Level - Hook Height (19)	mm	1,854	1,854	1,854	1,854	1,854	1,854
	ft, in	6' 1"	6' 1"	6' 1"	6' 1"	6' 1"	6' 1"
Min Lift - Hook Reach (20, 21, 22, 23, 24, 25)	mm	2,405	2,585	2,765	2,946	3,126	3,306
	ft, in	7' 10"	8' 5"	9' 0"	9' 7"	10' 3"	10' 10"
Min Lift - Hook Height (26, 27, 28, 29, 30, 31)	mm	(2,573)	(2,818)	(3,064)	(3,310)	(3,556)	(3,801)
	ft, in	-8' 6"	-9' 9"	-10' 11"	-10' 1"	-11' 4"	-12' 6"
Static Tipping Load, Straight	kg	5,870	5,550	5,262	5,002	4,765	4,549
	lb	12,937	12,231	11,597	11,024	10,502	10,026
Static Tipping Load, Articulated	kg	5,098	4,819	4,568	4,341	4,135	3,947
	lb	11,235	10,621	10,068	9,568	9,114	8,699
Operating Weight	kg	18,566	18,566	18,566	18,566	18,566	18,566
	lb	40,919	40,919	40,919	40,919	40,919	40,919



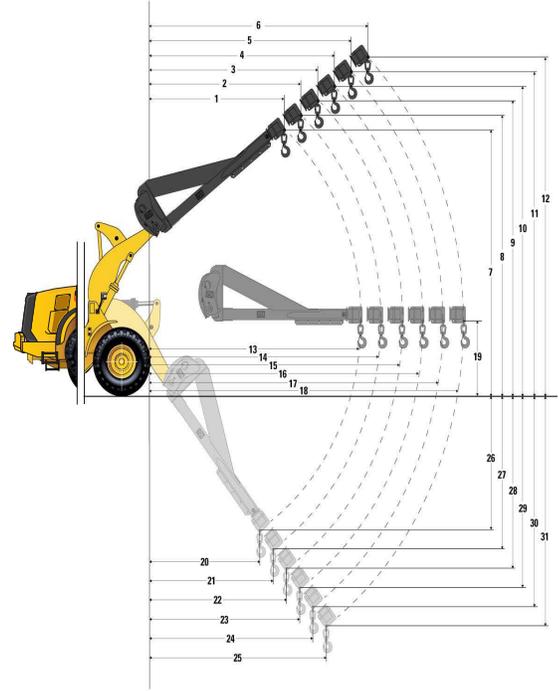
**Payload Capacity (kg)
(Calculated Load at CG Point)**



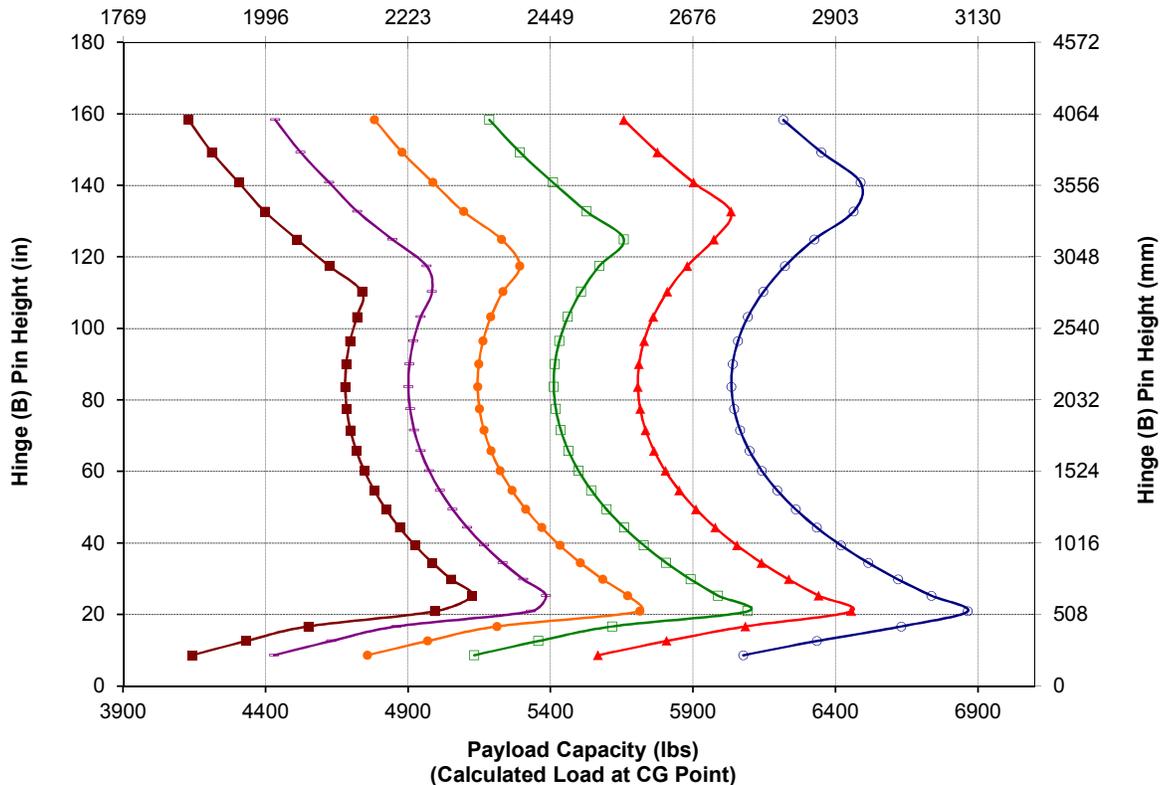
950M Wheel Loader Specifications

Material Handling Arm – Auxiliary Fusion

MHA Specifications		Retracted	Extension 1	Extension 2	Extension 3	Extension 4	Extended
Max Lift - Hook Reach (1, 2, 3, 4, 5, 6)	mm	2,280	2,417	2,555	2,693	2,830	2,968
	ft, in	7' 5"	7' 11"	8' 4"	8' 10"	9' 3"	9' 8"
Max Lift - Hook Height (7, 8, 9, 10, 11, 12)	mm	6,855	7,127	7,399	7,671	7,943	8,215
	ft, in	22' 5"	23' 4"	24' 3"	25' 2"	26' 0"	26' 11"
Level - Hook Reach (13, 14, 15, 16, 17, 18)	mm	4,594	4,899	5,204	5,509	5,813	6,118
	ft, in	15' 0"	16' 0"	17' 0"	18' 0"	19' 0"	20' 0"
Level - Hook Height (19)	mm	1,854	1,854	1,854	1,854	1,854	1,854
	ft, in	6' 1"	6' 1"	6' 1"	6' 1"	6' 1"	6' 1"
Min Lift - Hook Reach (20, 21, 22, 23, 24, 25)	mm	2,405	2,585	2,765	2,946	3,126	3,306
	ft, in	7' 10"	8' 5"	9' 0"	9' 7"	10' 3"	10' 10"
Min Lift - Hook Height (26, 27, 28, 29, 30, 31)	mm	(2,573)	(2,818)	(3,064)	(3,310)	(3,556)	(3,801)
	ft, in	-8' 6"	-9' 9"	-10' 11"	-10' 1"	-11' 4"	-12' 6"
Static Tipping Load, Straight	kg	6,347	6,002	5,692	5,411	5,156	4,923
	lb	13,990	13,229	12,544	11,926	11,363	10,850
Static Tipping Load, Articulated	kg	5,496	5,196	4,926	4,682	4,461	4,258
	lb	12,113	11,452	10,857	10,320	9,831	9,385
Operating Weight	kg	19,066	19,066	19,066	19,066	19,066	19,066
	lb	42,021	42,021	42,021	42,021	42,021	42,021



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

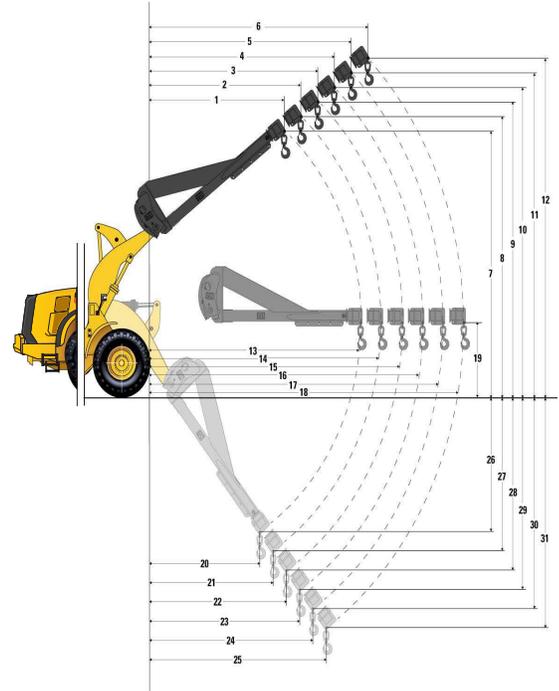


950M Wheel Loader Specifications

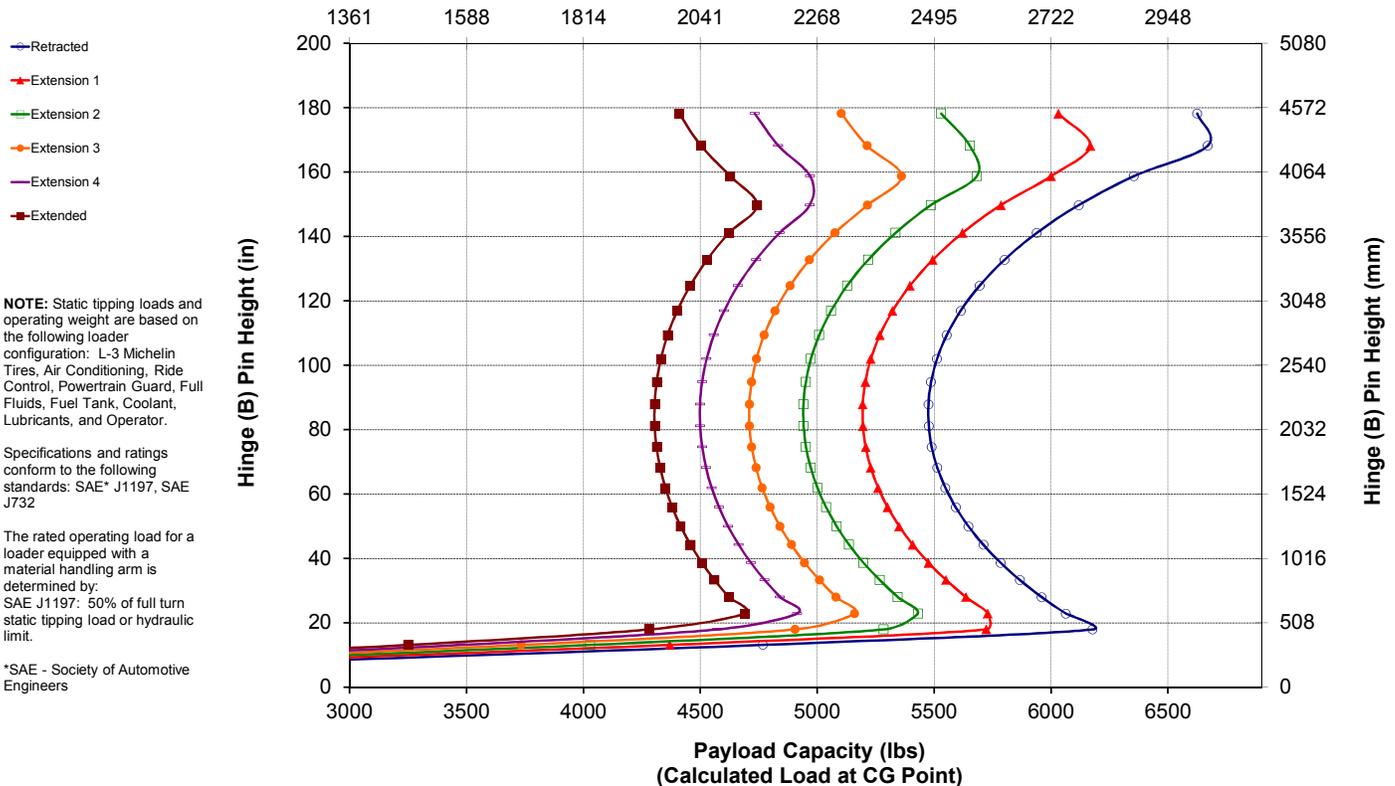
Material Handling Arm – High Lift Fusion

MHA Specifications

	Retracted	Extension 1	Extension 2	Extension 3	Extension 4	Extended	
Max Lift - Hook Reach (1, 2, 3, 4, 5, 6)	mm	2,433	2,582	2,731	2,880	3,029	3,178
	ft, in	7' 11"	8' 5"	8' 11"	9' 5"	9' 11"	10' 5"
Max Lift - Hook Height (7, 8, 9, 10, 11, 12)	mm	7,287	7,553	7,818	8,084	8,350	8,616
	ft, in	23' 10"	24' 9"	25' 7"	26' 6"	27' 4"	28' 3"
Level - Hook Reach (13, 14, 15, 16, 17, 18)	mm	4,969	5,274	5,579	5,884	6,188	6,493
	ft, in	16' 3"	17' 3"	18' 3"	19' 3"	20' 3"	21' 3"
Level - Hook Height (19)	mm	1,854	1,854	1,854	1,854	1,854	1,854
	ft, in	6' 1"	6' 1"	6' 1"	6' 1"	6' 1"	6' 1"
Min Lift - Hook Reach (20, 21, 22, 23, 24, 25)	mm	2,801	2,975	3,150	3,325	3,499	3,674
	ft, in	9' 2"	9' 9"	10' 4"	10' 10"	11' 5"	12' 0"
Min Lift - Hook Height (26, 27, 28, 29, 30, 31)	mm	(2,618)	(2,867)	(3,117)	(3,367)	(3,617)	(3,867)
	ft, in	-8' 4"	-9' 7"	-10' 9"	-11' 11"	-11' 1"	-12' 3"
Static Tipping Load, Straight	kg	5,780	5,484	5,216	4,973	4,750	4,546
	lb	12,740	12,087	11,497	10,960	10,469	10,019
Static Tipping Load, Articulated	kg	4,984	4,728	4,496	4,285	4,092	3,915
	lb	10,984	10,420	9,909	9,444	9,019	8,629
Operating Weight	kg	19,168	19,168	19,168	19,168	19,168	19,168
	lb	42,247	42,247	42,247	42,247	42,247	42,247



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



950M Wheel Loader Specifications

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
POWER TRAIN			OPERATOR ENVIRONMENT		
Axles, ecology drains	✓		Air conditioner, heater, and defroster (auto temp and fan)	✓	
Axles, manually actuated differential lock front axle, open differential rear axle	✓		Beverage holders (2) with storage compartment for cell phone/MP3 player	✓	
Axles: automatic front/rear differential locks, axle oil cooler, seal guards		✓	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 C7.1 – Stage V	✓		Cat seat cover, removable		✓
Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand	✓		Coat hook (2)	✓	
Fan, VPF (variable pitch fan), automatic and manual control		✓	Cover, HVAC metallic		✓
Fuel priming pump (electric)	✓		Door, remote opening system		✓
Fuel/water separator	✓		EH controls, SAL (single axis lever) lift and tilt function	✓	
Parking brake, disc and caliper	✓		EH controls, joystick lift and tilt: – Additional integrated roller switches for 3 rd and 4 th functions		✓
Precleaner, engine air intake	✓		EH controls, SAL 3 rd function: – Additional roller switch for 4 th function		✓
Radiator, high debris, wide fin spacing		✓	EH parking brake	✓	
Switch, transmission neutralizer lockout	✓		Filter, carbon fresh air		✓
Torque converter, locking clutch with free wheel stator	✓		Horn, electric	✓	
Transmission, automatic countershaft power shift (5F/3R)	✓		Light, two dome (cab)	✓	
CAT® CONNECT TECHNOLOGIES			Mirrors, heated rearview external with integrated spot mirrors		✓
Detect technologies:			Mirrors, rearview external with integrated spot mirrors	✓	
Rear vision camera	✓		Multi-function 18 cm color LCD touch-screen display for rear vision camera image display (reverse travel activated) and machine status, setting and health parameters	✓	
Cat rear object detection		✓	Post mounted membrane 16 switch keypad	✓	
Link technologies:			Precleaner, HVAC		✓
Product Link	✓		Precleaner, HVAC (RESPA)		✓
VIMS™		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth®		✓
Payload technologies:		✓	Radio, CB ready		✓
Cat Production Measurement 2.0 (CPM), Printer, Cat Production Measurement, Aggregate Autodig			Radio ready (entertainment) includes antenna, speakers and converter (12V, 10-amp)	✓	
Advanced Productivity subscription		✓	Receptacles (2), 12V	✓	
Machine security system		✓			

(continued on next page)

950M Wheel Loader Specifications

Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT <i>(continued)</i>			ELECTRICAL AND LIGHTING <i>(continued)</i>		
Roof, metallic		✓	Main disconnect switch	✓	
Seat, cloth, air suspension	✓		Receptacle start (cables not included)	✓	
Seat, suede/cloth, air suspension, heated		✓	Reversing strobes		✓
Seat, leather/cloth, air suspension, heated/cooled		✓	Speed limiter – 20 km/h		✓
Seat belt, 51 mm retractable, with indicator	✓		Starter, electric, heavy duty	✓	
Seat belt, 4-point harness, with indicator		✓	Starting and charging system (24V)	✓	
Seat, heated air suspension		✓	Secondary steering	✓	
Steering, EH joystick, speed sensing with force feedback		✓	Warning amber strobe beacon		✓
Steering, steering wheel	✓		FLUIDS		
Sun visor, front	✓		Bio-degradable oil, Cat HYDO™		✓
Sun visor, rear		✓	Premixed extended life coolant with freeze protection to -34°C	✓	
Viscous mounts	✓		Premixed extended life coolant with freeze protection to -50°C		✓
Wet-arm wipers/washers front and rear, intermittent front wiper	✓		HYDRAULICS		
Windows, rubber mounted		✓	Couplings, Cat O-ring face seal	✓	
Window, sliding (left and right sides)	✓		Hoses, Cat XT™	✓	
Windows, with front guard		✓	Hydraulic oil cooler (swing-out)	✓	
Windows, with full guards front, rear and sides		✓	Hydraulic system, load sensing	✓	
ELECTRICAL AND LIGHTING			Oil sampling valves	✓	
Alarm, back-up	✓		3 rd function with Ride Control: standard linkage, high lift linkage, forestry linkage		✓
Alternator, 145-amp brushed	✓		4 th function with Ride Control: standard linkage, high lift linkage, forestry linkage		✓
Batteries (2), maintenance free 1,400 CCA	✓		Remote diagnostic pressure taps	✓	
External seat belt indicator light		✓	Ride control, 2V	✓	
Ignition key: start/stop switch	✓		Steering, load sensing	✓	
Lighting system: four halogen work lights (cab-mounted), two halogen roading lights (with signals), two halogen rear vision lights (hood-mounted), two rear LED position/stop/turn	✓		LINKAGE		
Work lights, four additional halogen cab-mounted or;		✓	Forestry		✓
Work lights, two additional auxiliary front HI LED and two additional auxiliary rear LED cab-mounted, two LED work lights in the radiator grill, LED front turn signals, replacement of the standard four halogen cab mounted work lights with four LED work lights, LED roading lights		✓	High lift		✓
			Kickout, lift and tilt, automatic (adjustable in cab)	✓	
			Quick coupler ready		✓
			Z-bar, cast crosstube/tilt lever	✓	
			STARTERS, BATTERIES, AND ALTERNATORS		
			Cold start – 240V		✓
			WORK TOOLS		
			Forks, logging		✓
			Forks, pallet		✓
			Fusion quick coupler, ISO coupler		✓
			Performance Series buckets		✓

(continued on next page)

950M Wheel Loader Specifications

Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
COMPUTERIZED MONITORING SYSTEM			OTHER STANDARD AND OPTIONAL EQUIPMENT		
With following gauges:	✓		Auto idle shutdown	✓	
Speedometer/tachometer			Cat Autolube System		✓
Digital gear range indicator			Cold weather package: transmission filter bypass, fan pump bypass, jacket water or engine block heater, ether aid ready		✓
Diesel Exhaust Fluid (DEF) level			Ecology drains for engine, transmission, and hydraulics	✓	
Temperature: engine coolant, hydraulic oil, transmission oil			Fenders with mud-flap/rear with extension	✓	
Fuel level			Fenders, roading		✓
With following warning indicators:	✓		Filters: fuel, engine air, engine oil, hydraulic oil, transmission	✓	
Temperature: axle oil, engine intake manifold			Fuel cooler	✓	
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	✓	
Hydraulic oil low			Hood, non-metallic power tilting	✓	
Parking brake			Platform, window washing		✓
DEF low level			Precleaner, turbine		✓
Transmission filter bypass			Precleaner, trash		✓
			Precleaner rain cap	✓	
			Service centers (electrical and hydraulic)	✓	
			Sight gauges: engine coolant, hydraulic oil, and transmission oil level	✓	
			Toolbox	✓	
			Vandalism protection caplocks	✓	
			OTHER CONFIGURATIONS		
			Industrial and waste handler		✓
			Forestry		✓



950M

Industrial & Waste

In the harsh scrap, waste, and recycling environment, your operation requires a wheel loader to process material as efficiently and safely as possible with minimal downtime.

Durability

- Robotically welded frame design provides rigid structures that absorb torsional loads.
- M Series articulating hitch design provides increased bearing force capacity.
- Heavy-duty transmissions and axles are designed to handle extreme conditions inherent with scrap handling applications.

Achieve Greater Productivity

- Lock-up clutch transmission matches the engine power to increase fuel efficiency while delivering optimal performance.
- Easy-to-load Performance Series buckets improve material retention and reduce dig times, significantly improving productivity and fuel efficiency.
- Optional Cat Fusion quick coupler and 3rd/4th valve hydraulic functions allow for greater work tool and jobsite versatility.
- Automatic idle engine shutdown system significantly reduces idle time, overall operating hours, and fuel consumption.
- Standard and optional traction aids increase traction, diminish tire wear, and further reduce operating costs.
- Optional high lift linkage offers increased hinge pin height for improved stacking capability as well as easier load out of high side trucks and containers.
- Cat payload technologies provide accurate weighing* of the materials you are loading and hauling. Payload data is displayed in real-time to improve productivity and reduce overloading.

*Optional configurations and equipment may vary from region to region and require conformance to Caterpillar payload policy. Consult your dealer or Caterpillar representative for details. Not legal for trade.

Safety Features

- Cab access with wide door and stair-like steps adds solid stability.
- Floor-to-ceiling windshield, large mirrors with integrated spot mirrors, and rear vision camera provide industry-leading all-around visibility.
- Rear vision camera enhances visibility behind the machine, helping you work safely and confidently.

Easy, Comfortable Operator Environment

- Sound-suppression, seals, and viscous cab mounts decrease noise and vibration for a quieter work environment.
- The seat-mounted electro-hydraulic joystick steering system provides precision control and dramatically reduces arm fatigue, resulting in excellent comfort and accuracy.
- Ergonomic controls are easy to use, intuitive, and user-friendly.
- Touchscreen multi-function color display keeps operators focused.
- Inclined steps and convenient grab handles ease accessibility to the operating space.

Reduced Maintenance Time and Costs

- One-piece tilting hood makes engine access fast and easy.
- Electrical service centers enhance convenience and accessibility.
- Easy access to fuel fill and daily maintenance points means less servicing time is required.
- Extended service intervals, including:
 - Engine oil and engine oil filter change interval up to 1,000 hours (U.S. EPA Tier 4 Final or EU Stage V)
 - Hydraulic filter change interval up to 1,000 hours
 - Transmission oil change interval up to 2,000 hours
- Remote flash support.
- Longer tire life with on-the-go traction aids.
- Optional integrated Cat autolube system provides full lube system monitoring and diagnostic test visibility.
- Integrated window cleaning platform with tie-off point allows easy and safe access to the front of the machine.

950M Industrial & Waste Specifications

Engine

Engine Model	Cat C7.1	
Engine Power (2,100 rpm)		
SAE J1995	187 kW	254 hp (metric)
ISO 14396	186 kW	253 hp (metric)
Net Power (2,100 rpm)		
ISO 9249	171 kW	232 hp (metric)
Gross Torque (1,300 rpm)		
ISO 14396	1231 N·m	908 lbf·ft
Net Torque (1,300 rpm)		
ISO 9249	1163 N·m	858 lbf·ft
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in ³

- Meets either EU Stage V or EU Stage IV* emission standards.
*Stage IV engines comply with the transition provisions of the EU nonroad emission regulation
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and aftertreatment.

Buckets

Bucket Capacities	2.5-9.2 m ³	3.3-12.0 yd ³
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Weight

Operating Weight	23 019 kg	50,748 lb
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- Operating weight shown is based on machine configuration with Brawler HPS Solidflex Smooth tires, full fluids, operator, standard lift linkage, standard Waste Arrangement guarding, front window guard, rear guard counterweight, light guards, auto diff lock axles (front/rear), two valve hydraulics and 6.1CUM (8 yd³) Pin-on WLC bucket.

Transmission

Forward 1	6.9 km/h	4.3 mph
Forward 2	12 km/h	7.5 mph
Forward 3	19.3 km/h	12.0 mph
Forward 4	25.7 km/h	16.0 mph
Forward 5	39.5 km/h	24.5 mph
Reverse 1	6.9 km/h	4.3 mph
Reverse 2	12 km/h	7.5 mph
Reverse 3	25.7 km/h	16.0 mph

- Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 787 (2'6") mm roll radius.

Hydraulic System

Implement Pump Type	Variable axial piston	
Implement System		
Maximum Pump Output (2,150 rpm)	286 L/min	76 gal/min
Maximum Operating Pressure	29 300 kPa	4,250 psi
Optional 3 rd /4 th Function Maximum Flow	240 L/min	63 gal/min
Optional 3 rd /4 th Function Maximum Pressure	21 780 kPa	3,159 psi
Hydraulic Cycle Time with Rated Payload		
Raise from Carry Position	5.1 seconds	
Dump, at Maximum Raise	1.5 seconds	
Lower, Empty, Float Down	2.3 seconds	
Total	8.9 seconds	

Brakes

Brakes	Brakes meet ISO 3450:2011 standards	
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Axles

Front	Fixed
Rear	Oscillating ± 13 degrees
Maximum Single-Wheel Rise and Fall	496 mm 1.6 ft

Cab

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

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)	69 dB(A)*
Exterior Sound Power Level European Union Directive "2000/14/EC" as amended by "2005/88/EC."	104 dB(A)*
Exterior Sound Pressure Level (SAE J88:2013)	75 dB(A)**

*For a typical machine configuration, measured according to the procedures specified with the cooling fan speed set at 70% of 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"), moving forward in second gear ratio with the cooling fan speed set at maximum value.

Service Refill Capacities

Fuel Tank	275 L	72.6 gal
DEF Tank*	16 L	4.2 gal
Cooling System	59 L	15.6 gal
Crankcase	22 L	5.8 gal
Transmission	43 L	11.4 gal
Differentials and Final Drives – Front	43 L	11.4 gal
Differentials and Final Drives – Rear	43 L	11.4 gal
Hydraulic Tank	125 L	33.0 gal

*DEF must meet the requirements outlined in ISO 22241-1.

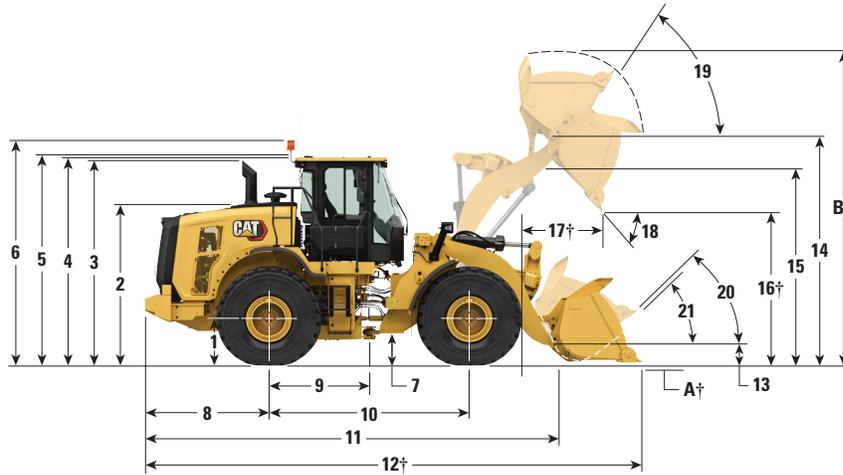
Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg (3.5 lb) of refrigerant which has a CO₂ equivalent of 2.288 metric tonnes.

950M Industrial & Waste Specifications

Waste Handler Dimensions

All dimensions are approximate.



	Standard Lift		High Lift	
1 Height to Axle Centerline	798 mm	2'7"	798 mm	2'7"
2 Height to Top of Hood	2748 mm	9'0"	2748 mm	9'0"
3 Height to Top of Exhaust Pipe	3464 mm	11'4"	3464 mm	11'4"
4 Height to Top of ROPS	3502 mm	11'6"	3502 mm	11'6"
5 Height to Top of Product Link Antenna	3704 mm	12'2"	3704 mm	12'2"
6 Height to Top of Warning Beacon	3798 mm	12'6"	3798 mm	12'6"
7 Ground Clearance	418 mm	1'4"	418 mm	1'4"
8 Center Line of Rear Axle to Edge of Counterweight	1942 mm	6'4"	2071 mm	6'10"
9 Center Line of Rear Axle to Hitch	1675 mm	5'6"	1675 mm	5'6"
10 Wheelbase	3350 mm	11'0"	3350 mm	11'0"
11 Overall Length (without bucket)	7099 mm	23'4"	7559 mm	24'10"
12 Shipping Length (with bucket level on ground)*†	8824 mm	29'0"	9284 mm	30'6"
13 Hinge Pin Height at Carry Height	698 mm	2'3"	833 mm	2'9"
14 Hinge Pin Height at Maximum Lift	4078 mm	13'5"	4578 mm	15'0"
15 Lift Arm Clearance at Maximum Lift	3331 mm	10'11"	3685 mm	12'1"
16 Dump Clearance at Maximum Lift and 45° Discharge*†	2518 mm	8'3"	3024 mm	9'11"
17 Reach at Maximum Lift and 45° Discharge*†	1685 mm	5'6"	1720 mm	5'7"
18 Dump Angle at Maximum Lift and Dump (on stops)*	47 degrees		44 degrees	
19 Rack Back at Maximum Lift*	59 degrees		59 degrees	
20 Rack Back at Carry Height*	49 degrees		49 degrees	
21 Rack Back at Ground*	36 degrees		40 degrees	
22 Turning Radius to Counterweight	6186 mm	20'4"	6186 mm	20'4"
23 Turning Radius to Outside of Tires	6005 mm	19'8"	6005 mm	19'8"
24 Turning Radius to Inside of Tires	3229 mm	10'7"	3245 mm	10'8"
25 Width over Tires – Maximum (unloaded)	2753 mm	9'1"	2753 mm	9'1"
Width over Tires – Maximum (loaded)	2760 mm	9'1"	2760 mm	9'1"
26 Tread Width	2140 mm	7'0"	2140 mm	7'0"

*With 6.1 m³ (8.0 yd³) pin-on waste bucket with steel bolt-on cutting edges (see Operating Specifications for other Buckets) and rear guard counterweight.

†Dimensions are listed in Operating Specification charts.

All height and tire related dimensions are with Brawler 23.5-25 HPS Solidflex Smooth tires (see Tire Option charts for other tires).

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

Tire Options for Scrap and Waste

Tire Brand	Brawler HPS	Brawler HPS	Michelin	Bridgestone	Michelin	Bridgestone
Tire Size	23.5-25	23.5-25	23.5R25	23.5R25	23.5R25	23.5R25
Tread Type	—	—	L-3	L-3	L-5	L-5
Tread Pattern	Solidflex Smooth	Solidflex Traction	XHA2	VJT	XLD D2	VSDL
Width over Tires – Maximum (empty)*	2753 mm 9'0"	2753 mm 9'0"	2814 mm 9'3"	2798 mm 9'2"	2817 mm 9'2"	2784 mm 9'1"
Width over Tires – Maximum (loaded)*	2760 mm 9'1"	2760 mm 9'1"	2822 mm 9'3"	2831 mm 9'3"	2833 mm 9'3"	2808 mm 9'2"
Change in Vertical Dimensions (average of front and rear)	0 mm 0"	0 mm 0"	-50 mm -2"	-56 mm -2"	-22 mm -0.9"	3 mm 0.1"
Change in Horizontal Reach	0 mm 0"	0 mm 0"	9 mm 0"	15 mm 1"	-16 mm -0.6"	-21 mm -0.8"
Change in Clearance Circle (radius) to Outside of Tires	0 mm 0"	0 mm 0"	62.4 mm 2"	71.2 mm 3"	69.7 mm 2.7"	42.3 mm 1.7"
Change in Clearance Circle (radius) to Inside of Tires	0 mm 0"	0 mm 0"	-62 mm -2"	-71 mm -3"	-67 mm -2.6"	-42 mm -1.7"
Change in Operating Weight (without Ballast)	0 kg 0 lb	-145 -320 lb	-3376 kg -7,443 lb	-3208 kg -7,072 lb	-2708 kg -5,970 lb	-2508 kg -5,529 lb
Change in Static Tipping Load – Straight	0 kg 0 lb	-97 kg -214 lb	-2252 kg -4,965 lb	-2140 kg -4,718 lb	-1806 kg -3,982 lb	-1673 kg -3,688 lb
Change in Static Tipping Load – Articulated	0 kg 0 lb	-84 kg -185 lb	-1963 kg -4,328 lb	-1866 kg -4,114 lb	-1574 kg -3,470 lb	-1458 kg -3,214 lb

*Width over bulge and includes tire growth.

950M Industrial & Waste Specifications

Operating Specifications – Waste Buckets



Waste Load & Carry Bucket



Waste Dozing Bucket



Waste Tamp & Clamp Bucket



Grapple Bucket

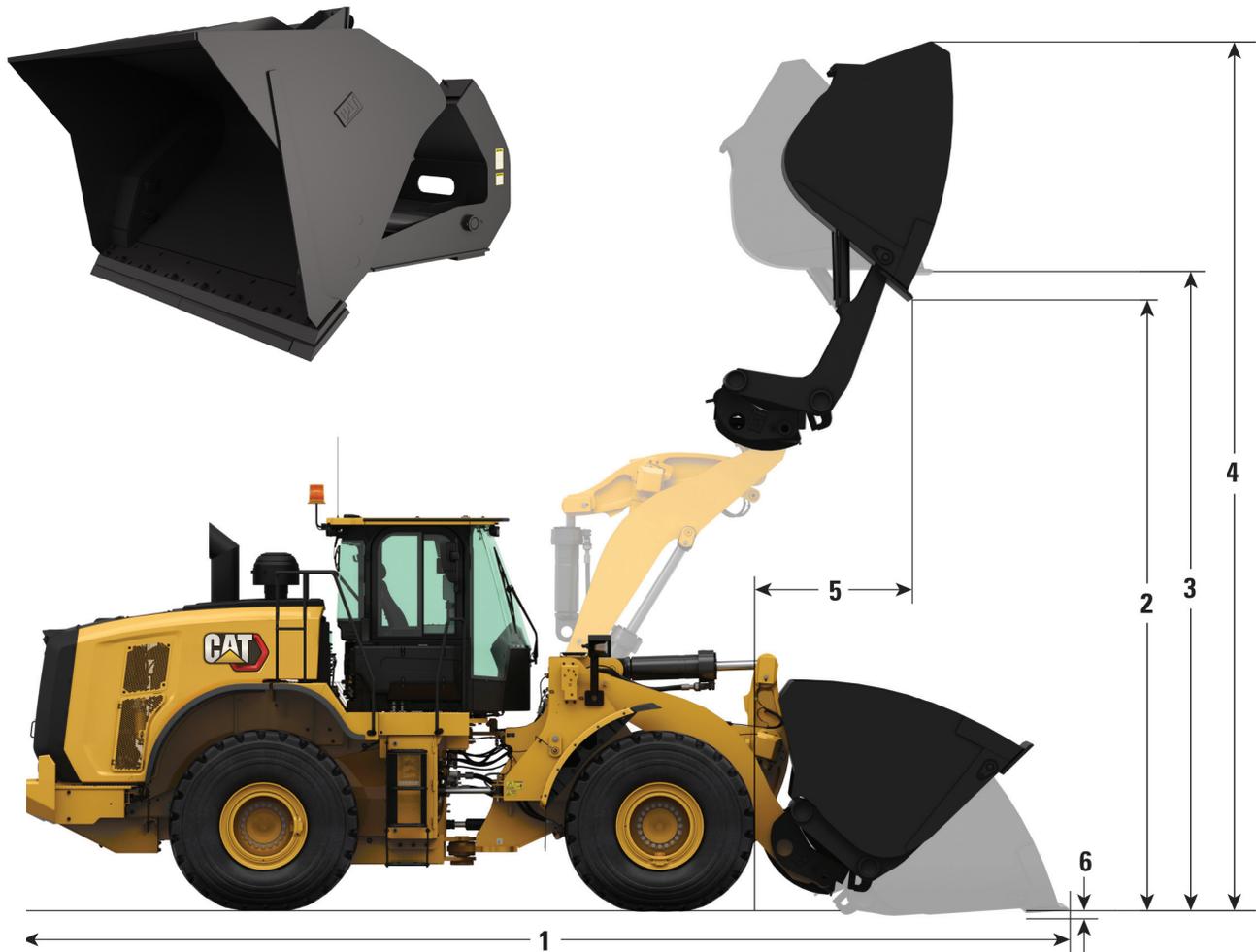
Bucket Type		Pin-On Load & Carry	Pin-On Dozing	Pin-On Tamp & Clamp	Pin-On Grapple	Fusion/ Dozing	Fusion/ Grapple	
Edge Type		Steel Bolt-On Cutting Edges	High Lift Delta*					
Capacity – Rated	m ³	6.10	5.20	4.40	4.60	5.20	4.60	—
	yd ³	8.00	6.75	5.75	6.00	6.75	6.00	—
Capacity – Rated at 110% Fill Factor	m ³	6.70	5.70	4.80	5.10	5.70	5.10	—
	yd ³	8.75	7.50	6.25	6.75	7.50	6.75	—
Width	mm	3059	3059	3059	3059	3032	3059	—
	ft/in	10'0"	10'0"	10'0"	10'0"	9'11"	10'0"	—
16 † Dump Clearance at Maximum Lift and 45° Discharge	mm	2518	2854	2301	2572	2784	2563	506
	ft/in	8'3"	9'4"	7'6"	8'5"	9'1"	8'4"	17"
17 † Reach at Maximum Lift and 45° Discharge	mm	1685	1349	1891	1729	1419	1738	36
	ft/in	5'6"	4'5"	6'2"	5'8"	4'7"	5'8"	1"
Reach at Level Lift Arm and Bucket Level	mm	3174	2699	3474	3157	2798	3170	375
	ft/in	10'4"	8'10"	11'4"	10'4"	9'2"	10'4"	12"
12 † Overall Length	mm	8658	8183	8965	8641	8282	8654	626
	ft/in	28'5"	26'11"	29'5"	28'5"	27'3"	28'5"	20"
A † Overall Height with Bucket at Maximum Lift	mm	5983	6162	5322	6007	6148	6071	506
	ft/in	19'8"	20'3"	17'6"	19'9"	20'3"	19'11"	17"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	6949	6800	7052	6944	6814	6945	211
	ft/in	22'10"	22'4"	23'2"	22'10"	22'5"	22'10"	8"
Static Tipping Load, Straight (Rigid Tire)	kg	14 099	16 025	12 302	13 575	15 006	13 183	-2319
	lb	31,074	35,320	27,114	29,920	33,073	29,055	-5,111
Static Tipping Load, Articulated (Rigid Tire)	kg	12 218	13 967	10 523	11 728	13 001	11 341	-2077
	lb	26,930	30,783	23,193	25,849	28,654	24,995	-4,577
Breakout Force	kN	131	190	107	123	162	122	-16
	lbf	29,506	42,701	24,075	27,656	36,407	27,426	-1,348
Operating Weight	kg	23 019	22 688	24 086	23 392	23 263	23 866	103
	lb	50,732	50,003	53,084	51,554	51,272	52,601	227

†Illustration shown with Dimension charts.

*Maximum values.

Static tipping loads and operating weights shown are based on machine configuration with Brawler HPS Solidflex Smooth tires, full fluids, operator, standard lift linkage, standard Waste Arrangement guarding, front window guard, rear guard counterweight, light guards, auto diff lock axles (front/rear) and two valve hydraulics.

Waste High Dump Bucket



Bucket Key Features

- High Dump bucket increases dump height 1.9 m (6'2") for largest size available on 950M
- Designed for waste transfer and recycling depots
- Wide bucket tilt cylinders enable material to flow easily with minimal carry back
- Three-piece steel cutting edge
- Requires 3rd valve hydraulics

950M Industrial & Waste Specifications

Waste High Dump Bucket		
Package	Rear Guard	
Bucket Type	PO High Dump	
Edge Type	Bolt-On Cutting Edges	
Capacity – Rated	m ³	5.10
	yd ³	6.75
Capacity – Rated at 110% Fill Factor	m ³	5.60
	yd ³	7.50
Width	mm	3029
	ft/in	9'9"
1 Overall Length	mm	4432
	ft/in	14'5"
2 Dump Clearance at Maximum Lift and 45° Discharge	mm	1694
	ft/in	5'6"
3 Clearance with level rolled-out bucket	mm	4829
	ft/in	15'8"
4 Overall max height during bucket roll-out	mm	30
	ft/in	1.2"
5 Reach at Maximum Lift and 45° Discharge	mm	8833
	ft/in	29'0"
6 Digging Depth	mm	6610
	ft/in	21'7"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	6937
	ft/in	22'8"
Static Tipping Load, Straight (Rigid Tire)	kg	13 705
	lb	30,214
Static Tipping Load, Articulated (Rigid Tire)	kg	11 855
	lb	26,136
Breakout Force	kN	123
	lbf	27,656
Operating Weight*	kg	23 117
	lb	50,964

*Static tipping loads and operating weights shown are based on machine configuration with Brawler HPS Solidflex Smooth tires, full fluids, operator, standard lift linkage, standard Waste Arrangement guarding, front window guard, rear guard counterweight, light guards, and auto diff lock axles (front/rear).

Scrap Bucket Chart



Package		950M Scrap							
Bucket Type		Pin-On General Purpose				Fusion General Purpose			
Edge Type		Bolt-On Cutting Edges				Bolt-On Cutting Edges			
Capacity – Rated	m ³	3.1	3.4	3.6	3.8	3.1	3.4	3.6	3.8
	yd ³	4.00	4.50	4.75	5.00	4.00	4.50	4.75	5.00
Capacity – Rated at 110% Fill Factor	m ³	3.4	3.7	4.0	4.2	3.4	3.7	4.0	4.2
	yd ³	4.50	4.75	5.25	5.50	4.50	4.75	5.25	5.50
Width	mm	2927	2927	2927	2927	2927	2927	2927	2927
	ft/in	9'7"	9'7"	9'7"	9'7"	9'7"	9'7"	9'7"	9'7"
16 Dump Clearance at Maximum Lift and 45° Discharge	mm	2928	2871	2845	2810	2889	2831	2805	2770
	ft/in	9'7"	9'5"	9'4"	9'2"	9'5"	9'3"	9'2"	9'1"
17 Reach at Maximum Lift and 45° Discharge	mm	1420	1464	1486	1515	1466	1509	1530	1559
	ft/in	4'7"	4'9"	4'10"	4'11"	4'9"	4'11"	5'0"	5'1"
Reach at Level Lift Arm and Bucket Level	mm	2679	2752	2787	2833	2739	2812	2847	2893
	ft/in	8'9"	9'0"	9'1"	9'3"	8'11"	9'2"	9'4"	9'5"
Digging Depth	mm	38	38	38	38	38	38	38	38
	ft/in	1.5"	1.5"	1.5"	1.5"	1.5"	1.5"	1.5"	1.5"
12 Overall Length	mm	8326	8399	8434	8480	8386	8459	8494	8540
	ft/in	27'4"	27'7"	27'9"	27'10"	27'7"	27'9"	27'11"	28'1"
A Overall Height with Bucket at Maximum Lift	mm	5577	5649	5682	5730	5610	5682	5716	5763
	ft/in	18'4"	18'7"	18'8"	18'10"	18'5"	18'8"	18'10"	18'11"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	6733	6755	6766	6780	6746	6769	6780	6795
	ft/in	22'2"	22'2"	22'3"	22'3"	22'2"	22'3"	22'3"	22'4"
Static Tipping Load, Straight (Rigid Tire)	kg	15 605	15 436	15 363	15 260	14 976	14 839	14 771	14 682
	lb	34,394	34,021	33,860	33,633	33,007	32,705	32,556	32,359
Static Tipping Load, Articulated (Rigid Tire)	kg	13 633	13 472	13 403	13 305	13 034	12 905	12 841	12 756
	lb	30,048	29,692	29,540	29,324	28,728	28,443	28,301	28,115
Breakout Force	kN	181	171	166	160	172	163	159	153
	lbf	40,804	38,425	37,378	36,073	38,848	36,687	35,725	34,526
Operating Weight*	kg	22 269	22 363	22 399	22 454	22 739	22 809	22 843	22 888
	lb	49,081	49,287	49,367	49,488	50,117	50,271	50,346	50,445

*Static tipping loads and operating weights shown are based on machine configuration with Brawler HPS Solidflex Smooth tires, full fluids, operator, standard lift linkage, standard Waste Arrangement guarding, front window guard, rear guard counterweight, light guards, auto diff lock axles (front/rear), and two valve hydraulics.

950M Industrial & Waste Specifications

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
POWER TRAIN			OPERATOR ENVIRONMENT		
Axles, ecology drains	✓		Air conditioner, heater, and defroster (auto temp and fan)	✓	
Axles, manually actuated differential lock front axle, open differential rear axle	✓		Beverage holders (2) with storage compartment for cell phone/MP3 player	✓	
Axles: automatic front/rear differential locks, axle oil cooler, seal guards		✓	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 C7.1 – Stage V	✓		Cat seat cover, removable		✓
Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand	✓		Coat hook (2)	✓	
Fan, VPF (variable pitch fan), automatic and manual control		✓	Cover, HVAC metallic		✓
Fuel priming pump (electric)	✓		Door, remote opening system		✓
Fuel/water separator	✓		EH controls, SAL (single axis lever) lift and tilt function	✓	
Parking brake, disc and caliper	✓		EH controls, joystick lift and tilt: – Additional integrated roller switches for 3 rd and 4 th functions		✓
Precleaner, engine air intake	✓		EH controls, SAL 3 rd function: – Additional roller switch for 4 th function		✓
Radiator, high debris, wide fin spacing		✓	EH parking brake	✓	
Switch, transmission neutralizer lockout	✓		Filter, carbon fresh air		✓
Torque converter, locking clutch with free wheel stator	✓		Horn, electric	✓	
Transmission, automatic countershaft power shift (5F/3R)	✓		Light, two dome (cab)	✓	
CAT® CONNECT TECHNOLOGIES			Mirrors, heated rearview external with integrated spot mirrors		✓
Detect technologies:			Mirrors, rearview external with integrated spot mirrors	✓	
Rear vision camera	✓		Multi-function 18 cm color LCD touch-screen display for rear vision camera image display (reverse travel activated) and machine status, setting and health parameters	✓	
Cat rear object detection		✓	Post mounted membrane 16 switch keypad	✓	
Link technologies:			Precleaner, HVAC		✓
Product Link	✓		Precleaner, HVAC (RESPA)		✓
VIMS		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth®		✓
Payload technologies:			Radio, CB ready		✓
Cat Production Measurement 2.0 (CPM), Printer, Cat Production Measurement, Aggregate Autodig		✓	Radio ready (entertainment) includes antenna, speakers and converter (12V, 10-amp)	✓	
Advanced Productivity subscription		✓	Receptacles (2), 12V	✓	
Machine security system		✓			

(continued on next page)

Standard and Optional Equipment (continued)

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

	Standard	Optional
OPERATOR ENVIRONMENT (continued)		
Roof, metallic		✓
Seat, cloth, air suspension	✓	
Seat, suede/cloth, air suspension, heated		✓
Seat, leather/cloth, air suspension, heated/cooled		✓
Seat belt, 51 mm retractable, with indicator	✓	
Seat belt, 4-point harness, with indicator		✓
Seat, heated air suspension		✓
Steering, EH joystick, speed sensing with force feedback		✓
Steering, steering wheel	✓	
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 full guards front, rear and sides		✓
ELECTRICAL AND LIGHTING		
Alarm, back-up	✓	
Alternator, 145-amp brushed	✓	
Batteries (2), maintenance free 1,400 CCA	✓	
External seat belt indicator light		✓
Ignition key: start/stop switch	✓	
Lighting system: four halogen work lights (cab-mounted), two halogen roading lights (with signals), two halogen rear vision lights (hood-mounted), two rear LED position/stop/turn	✓	
Work lights, four additional halogen cab-mounted or;		✓
Work lights, two additional auxiliary front HI LED and two additional auxiliary rear LED cab-mounted, two LED work lights in the radiator grill, LED front turn signals, replacement of the standard four halogen cab mounted work lights with four LED work lights, LED roading lights		✓

	Standard	Optional
ELECTRICAL AND LIGHTING (continued)		
Main disconnect switch	✓	
Receptacle start (cables not included)	✓	
Reversing strobes		✓
Speed limiter – 20 km/h		✓
Starter, electric, heavy duty	✓	
Starting and charging system (24V)	✓	
Secondary steering	✓	
Warning amber strobe beacon		✓
FLUIDS		
Bio-degradable oil, Cat HYDO		✓
Premixed extended life coolant with freeze protection to -34°C	✓	
Premixed extended life coolant with freeze protection to -50°C		✓
HYDRAULICS		
Couplings, Cat O-ring face seal	✓	
Hoses, Cat XT	✓	
Hydraulic oil cooler (swing-out)	✓	
Hydraulic system, load sensing	✓	
Oil sampling valves	✓	
3 rd function with Ride Control: standard linkage, high lift linkage, forestry linkage		✓
4 th function with Ride Control: standard linkage, high lift linkage, forestry linkage		✓
Remote diagnostic pressure taps	✓	
Ride control, 2V	✓	
Steering, load sensing	✓	
LINKAGE		
Forestry		✓
High lift		✓
Kickout, lift and tilt, automatic (adjustable in cab)	✓	
Quick coupler ready		✓
Z-bar, cast crosstube/tilt lever	✓	
STARTERS, BATTERIES, AND ALTERNATORS		
Cold start – 240V		✓
WORK TOOLS		
Forks, logging		✓
Forks, pallet		✓
Fusion quick coupler, ISO coupler		✓
Performance Series buckets		✓

(continued on next page)

950M Industrial & Waste Specifications

Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
COMPUTERIZED MONITORING SYSTEM			OTHER STANDARD AND OPTIONAL EQUIPMENT		
With following gauges:	✓		Auto idle shutdown	✓	
Speedometer/tachometer			Cat Autolube System		✓
Digital gear range indicator			Cold weather package: transmission filter bypass, fan pump bypass, jacket water or engine block heater, ether aid ready		✓
Diesel Exhaust Fluid (DEF) level			Ecology drains for engine, transmission, and hydraulics	✓	
Temperature: engine coolant, hydraulic oil, transmission oil			Fenders with mud-flap/rear with extension	✓	
Fuel level			Fenders, roading		✓
With following warning indicators:	✓		Filters: fuel, engine air, engine oil, hydraulic oil, transmission	✓	
Temperature: axle oil, engine intake manifold			Fuel cooler	✓	
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	✓	
Hydraulic oil low			Hood, non-metallic power tilting	✓	
Parking brake			Platform, window washing		✓
DEF low level			Precleaner, turbine		✓
Transmission filter bypass			Precleaner, trash		✓
			Precleaner rain cap	✓	
			Service centers (electrical and hydraulic)	✓	
			Sight gauges: engine coolant, hydraulic oil, and transmission oil level	✓	
			Toolbox	✓	
			Vandalism protection caplocks	✓	
			OTHER CONFIGURATIONS		
			Industrial and waste handler		✓
			Forestry		✓

Standard and Optional Equipment (continued)

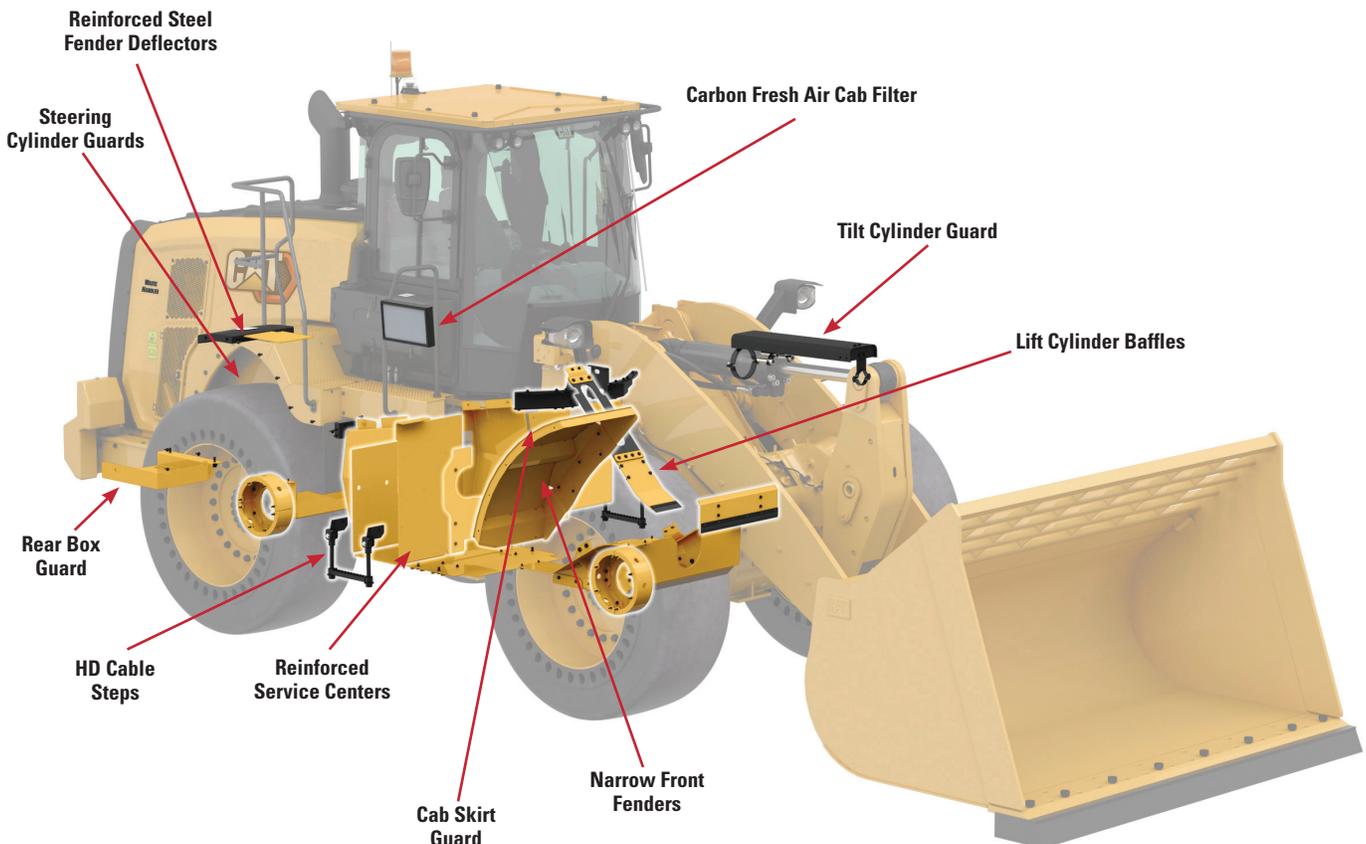
Standard

- Axle seal guards
- Steering cylinder guard
- Crankcase guard
- Power train guard
- Tilt cylinder guard
- Lower cab skirt
- Rear box reinforcement
- Reinforced service centers
- Heavy duty cable steps
- Lift cylinder baffles
- Narrow front fenders
- Steel reinforced rear fender deflectors
- Carbon fresh cab air filter
- Locking differential front axle
- Sound suppression cab

Optional

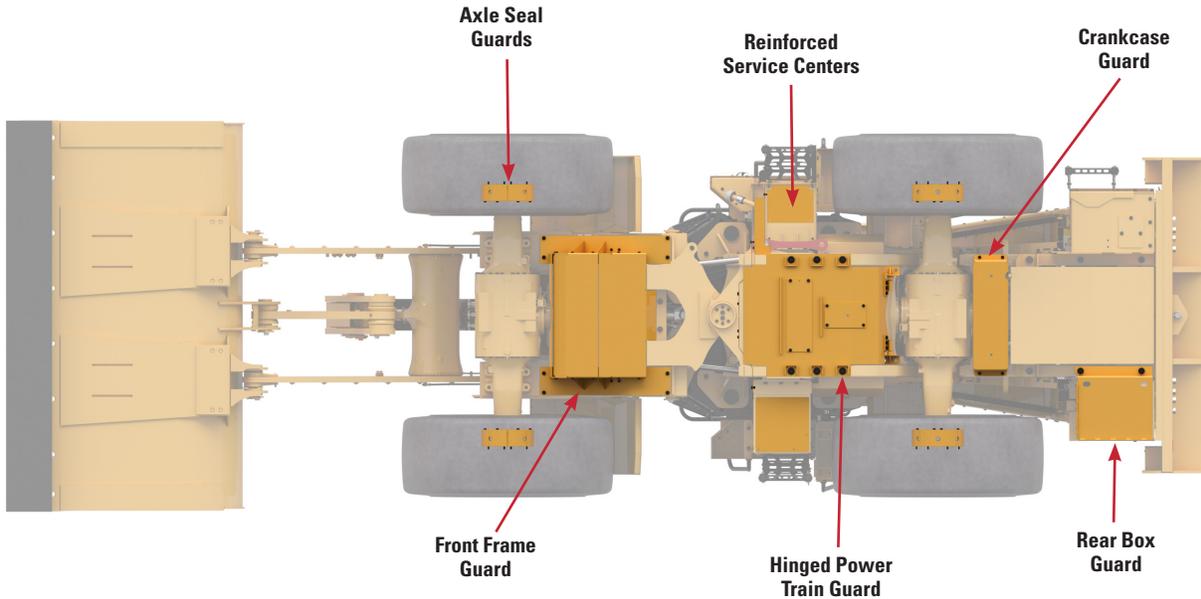
- High Lift linkage (additional 11" dump clearance)
- Auto locking differential front axle
- 3rd function hydraulics
- Premium LED lights
- Rubber mounted glass
- Windshield guard
- Joystick steering
- Deluxe seat with dynamic end dampening
- Joystick loader controls
- Advanced Cat filtration system
- High debris cooling coolers
- Variable pitch fan
- Brawler HPS Solid tires (traction or smooth)
- Turbine engine air precleaner with trash screen
- Autolube
- Cat Integrated Object Detection
- Light guards

Top Machine Guarding – Standard

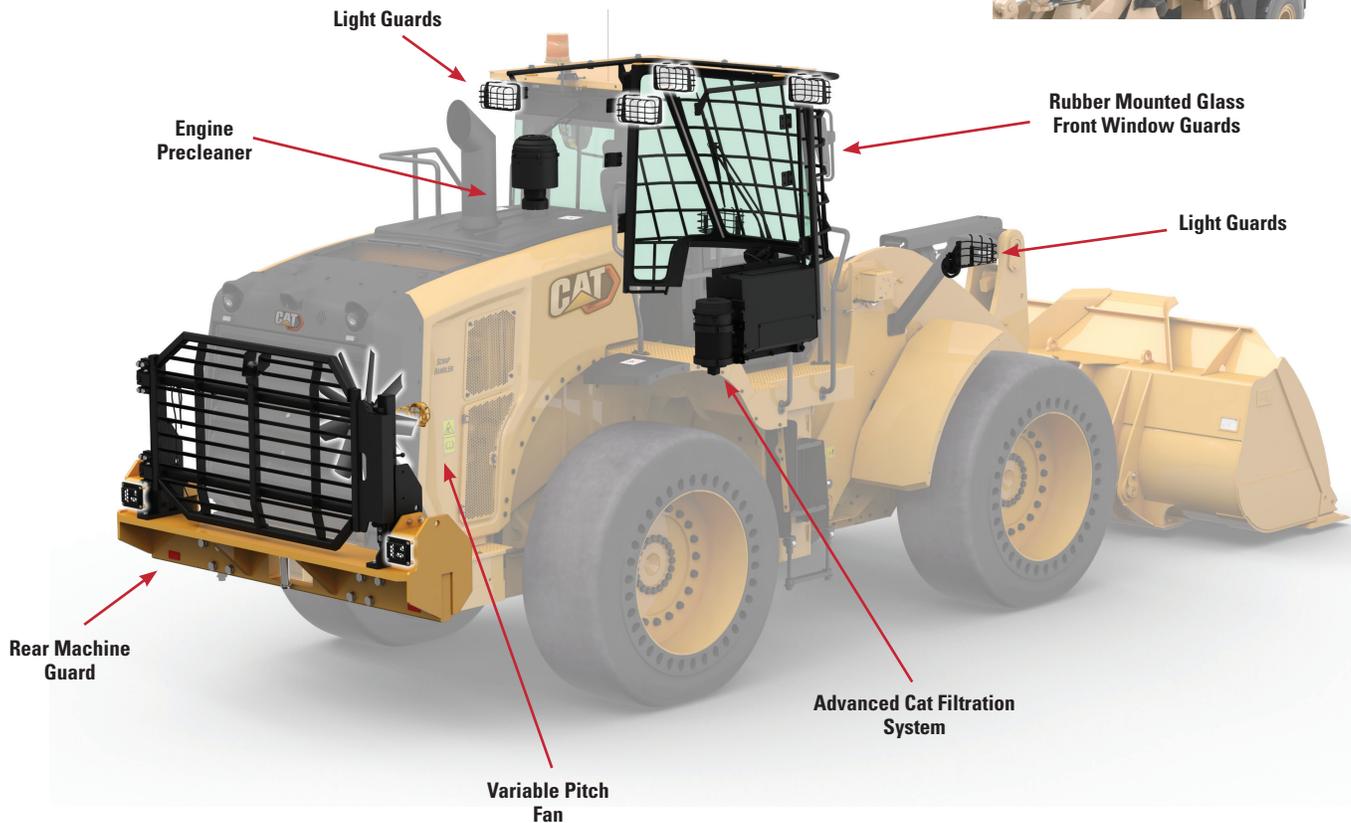
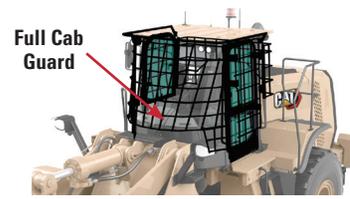


950M Industrial & Waste Specifications

Bottom Machine Guarding – Standard



Optional Full Cab Guarding – Available





950M

Forestry

Millyard applications demand the additional performance, productivity, and safety that Cat Forestry Wheel Loaders deliver.

Durability

- Robotically welded frame design provides rigid structures that absorb torsional loads.
- M Series articulating hitch design provides increased bearing force capacity to handle heavy loads.
- Heavy-duty transmissions and axles are designed to handle steep grades and ramps.

Productivity

- Larger lift and tilt cylinders coupled with Logger counterweight increase machine capacity 9% over standard machine.
- Lock-up clutch transmission matches the engine power to increase fuel efficiency while delivering optimal performance.
- Optional Cat Fusion quick coupler and 3rd/4th valve hydraulic functions provide versatility between forks and buckets.
- Automatic idle engine shutdown system significantly reduces idle time, overall operating hours, and fuel consumption.
- Standard manual locking front differential optimizes traction in all conditions. In partially paved yards, tire wear is minimized.

Safety

- Cab access with wide door and stair-like steps adds solid stability.
- Floor-to-ceiling windshield, large mirrors with integrated spot mirrors, and rear vision camera provide industry-leading all-around visibility.
- Rear vision camera enhances visibility behind the machine, helping you work safely and confidently.

Operator Environment

- Sound suppression, seals, and viscous cab mounts decrease noise and vibration for a quieter work environment.
- Seat-mounted electro-hydraulic joystick steering system provides precision control and dramatically reduces arm fatigue, resulting in excellent comfort and accuracy.
- Convenient door latch enables personnel to keep feet on the ground while opening the cab door.

Reduced Maintenance Time and Costs

- Service centers enhance convenience and accessibility.
- Easy access to fuel fill and daily maintenance points means less servicing time is required.
- Extended service intervals, including:
 - Engine oil and engine oil filter change interval up to 1,000 hours
 - Hydraulic filter change interval up to 1,000 hours
 - Transmission oil change interval up to 2,000 hours
- Remote flash support.
- Optional integrated Cat autolube system provides full lube system monitoring and diagnostic test visibility.

950M Forestry Specifications

Engine

Engine Model	Cat C7.1	
Engine Power (2,100 rpm)		
SAE J1995	187 kW	254 hp (metric)
ISO 14396	186 kW	253 hp (metric)
Net Power (2,100 rpm)		
ISO 9249	171 kW	232 hp (metric)
Gross Torque (1,300 rpm)		
ISO 14396	1231 N·m	908 lbf-ft
Net Torque (1,300 rpm)		
ISO 9249	1163 N·m	858 lbf-ft
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in ³

- Meets either EU Stage V or EU Stage IV* emission standards.
*Stage IV engines comply with the transition provisions of the EU nonroad emission regulation
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and aftertreatment.

Buckets

Bucket Capacities	2.5-9.2 m ³	3.3-12.0 yd ³
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Weight

Operating Weight	20 395 kg	44,963 lb
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- Operating weights shown are based on a machine configuration with Michelin 23.5R25 XHA2 L3 radial tires, full fluids, operator, Logger counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering, sound suppression and 9.2 m³ Pin-on bucket.

Transmission

Forward 1	6.9 km/h	4.3 mph
Forward 2	12 km/h	7.5 mph
Forward 3	19.3 km/h	12.0 mph
Forward 4	25.7 km/h	16.0 mph
Forward 5	39.5 km/h	24.5 mph
Reverse 1	6.9 km/h	4.3 mph
Reverse 2	12 km/h	7.5 mph
Reverse 3	25.7 km/h	16.0 mph

- Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 787 (2'6") mm roll radius.

Hydraulic System

Implement Pump Type	Variable axial piston	
Implement System		
Maximum Pump Output (2,150 rpm)	286 L/min	76 gal/min
Maximum Operating Pressure	29 300 kPa	4,250 psi
Optional 3 rd /4 th Function Maximum Flow	240 L/min	63 gal/min
Optional 3 rd /4 th Function Maximum Pressure	21 780 kPa	3,159 psi
Hydraulic Cycle Time with Rated Payload		
Raise from Carry Position	5.1 seconds	
Dump, at Maximum Raise	1.5 seconds	
Lower, Empty, Float Down	2.3 seconds	
Total	8.9 seconds	

Brakes

Brakes	Brakes meet ISO 3450:2011 standards	
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Axles

Front	Fixed
Rear	Oscillating ± 13 degrees
Maximum Single-Wheel Rise and Fall	496 mm 1.6 ft

Cab

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

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)	69 dB(A)*
Exterior Sound Power Level European Union Directive "2000/14/EC" as amended by "2005/88/EC."	104 dB(A)*
Exterior Sound Pressure Level (SAE J88:2013)	75 dB(A)**

*For a typical machine configuration, measured according to the procedures specified with the cooling fan speed set at 70% of 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"), moving forward in second gear ratio with the cooling fan speed set at maximum value.

Service Refill Capacities

Fuel Tank	275 L	72.6 gal
DEF Tank*	16 L	4.2 gal
Cooling System	59 L	15.6 gal
Crankcase	22 L	5.8 gal
Transmission	43 L	11.4 gal
Differentials and Final Drives – Front	43 L	11.4 gal
Differentials and Final Drives – Rear	43 L	11.4 gal
Hydraulic Tank	125 L	33.0 gal

*DEF must meet the requirements outlined in ISO 22241-1.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg (3.5 lb) of refrigerant which has a CO₂ equivalent of 2.288 metric tonnes.

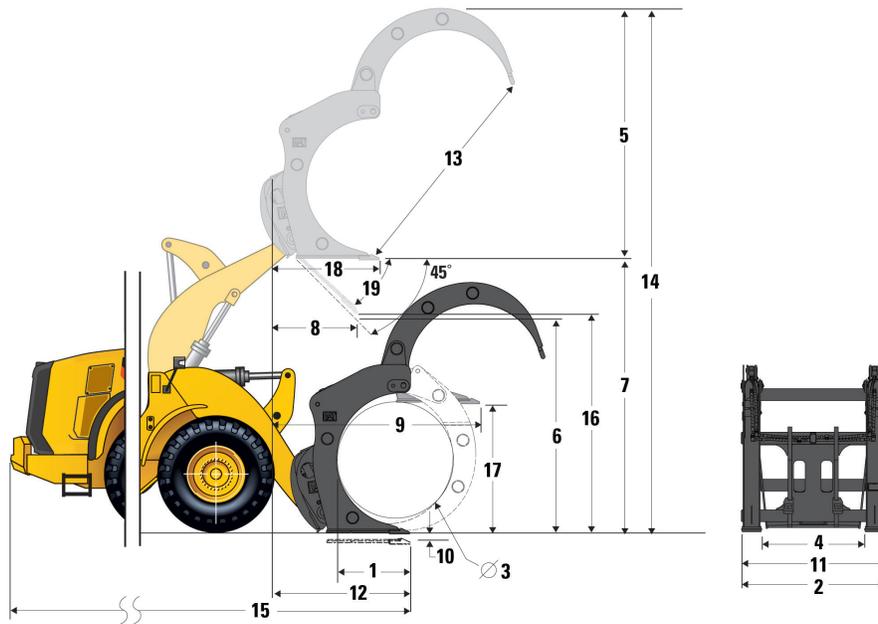
950M Forestry Specifications

Tire Options

Tire Brand	Michelin	Bridgestone	Goodyear	Bridgestone	Michelin
Tire Size	23.5R25	23.5R25	23.5R25	23.5R25	750/65R25
Tread Type	L-3	L-3	L-3	L-3	L-3
Tread Pattern	XHA2	VMT	RT-3B	VJT	XLD
Width over Tires – Maximum (empty)*	2814 mm 9'2"	2805 mm 9'2"	2835 mm 9'4"	2798 mm 9'2"	2948 mm 9'8"
Width over Tires – Maximum (loaded)*	2822 mm 9'3"	2834 mm 9'4"	2846 mm 9'4"	2831 mm 9'3"	2965 mm 9'9"
Change in Vertical Dimensions (average of front and rear)	0 mm 0"	-3 mm -0.1"	-1 mm 0"	-6 mm -0.2"	-6 mm -0.2"
Change in Horizontal Reach	0 mm 0"	6 mm 0.2"	3 mm 0.1"	6 mm 0.2"	11 mm 0.4"
Change in Clearance Circle (radius) to Outside of Tires	0 mm 0"	12 mm 0.5"	24 mm 1"	9 mm 0.4"	143 mm 5.6"
Change in Clearance Circle (radius) to Inside of Tires	0 mm 0"	-12 mm -0.5"	-24 mm -1"	-9 mm -0.4"	-143 mm -5.6"
Change in Operating Weight (without Ballast)	0 kg 0 lb	188 kg 414 lb	127 kg 280 lb	168 kg 370 lb	801 kg 1,766 lb
Change in Static Tipping Load – Straight	0 kg 0 lb	125 kg 276 lb	85 kg 187 lb	112 kg 247 lb	534 kg 1,177 lb
Change in Static Tipping Load – Articulated	0 kg 0 lb	109 kg 240 lb	74 kg 163 lb	98 kg 216 lb	466 kg 1,027 lb

*Width over bulge and includes tire growth.

Operating Specifications with Logging Sorting Grapple



Machine Interface	Logger			
	Pin-On		Fusion QC	
End Area	2.5 m ²	26.9 ft ²	2.5 m ²	26.9 ft ²
1 Tine Length	1230 mm	4'0"	1230 mm	4'0"
2 Fork Width	1837 mm	6'0"	1837 mm	6'0"
3 Minimum Opening	1382 mm	4'5"	1382 mm	4'5"
4 Distance Inside of Tine Tips	1284 mm	4'2"	1284 mm	4'2"
5 Max Height of Fork (with Clamp Open if Applicable)	3133 mm	10'3"	3132 mm	10'3"
6 Clearance with Full Lift, 45° Dump (If Max Dump <= 45)	2817 mm	9'2"	2818 mm	9'2"
7 Clearance at Full Lift Fork Level	3701 mm	12'1"	3702 mm	12'1"
8 Reach with Full Lift, 45° Dump (If Max Dump <= 45)	1304 mm	4'3"	1304 mm	4'3"
9 Reach with Lift Arm Horizontal and Fork Level	2695 mm	8'8"	2694 mm	8'8"
10 Digging Depth	-126 mm	-0.4'	-125 mm	-0.4'
11 Width Over Tines	1744 mm	5'7"	1744 mm	5'7"
12 Reach at Ground Level	2133 mm	7'0"	2132 mm	7'0"
13 Max Opening Across Tine and Clamp	2933 mm	9'6"	2933 mm	9'6"
14 Overall Height of Fork at Full Lift and Clamp Open	6834 mm	22'4"	6834 mm	22'4"
15 Overall Length (Tip of Tine to Rear of Machine)	8360 mm	27'4"	8359 mm	27'4"
16 Clearance at Full Lift and Max Dump Discharge (If <= 45)	2805 mm	9'2"	2693 mm	8'8"
17 Clearance with Horizontal Lift Arms and Fork Level	1740 mm	5'7"	1740.9 mm	5'7"
18 Reach at Full Lift and Fork Level	1957.3 mm	6'4"	1957.3 mm	6'4"
19 Max Discharge Angle From Horizontal	46°	46°	57°	57°
Rated Payload	6500 kg	14,330 lb	6300 kg	13,889 lb
Static Tipping Load, Articulated Fork Level	8207 kg	18,093 lb	7864 kg	17,337 lb
Static Tipping Load, Straight Fork Level	9635 kg	21,242 lb	9292 kg	20,485 lb
Operating Weight	20 054 kg	44,212 lb	20 568 kg	45,345 lb

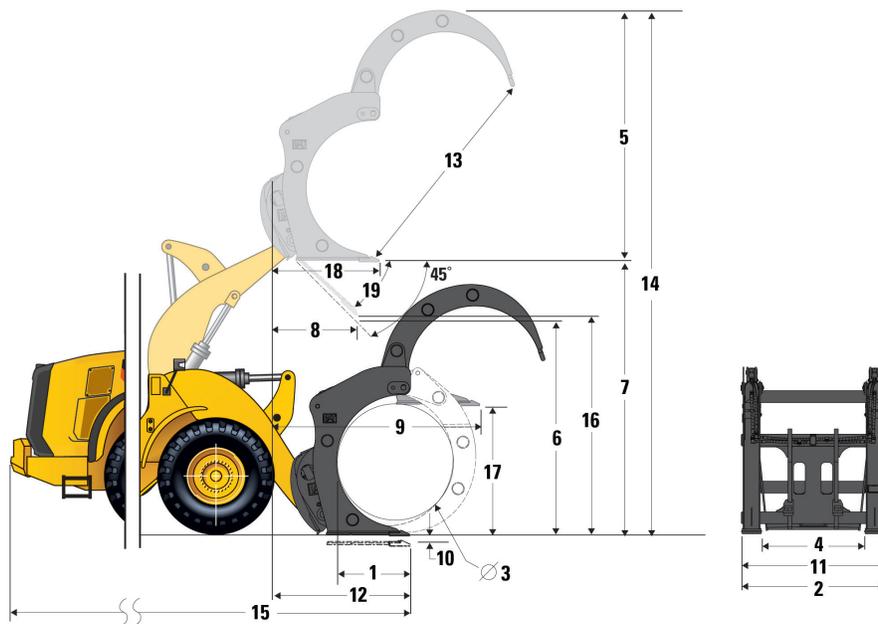
Static tipping loads and operating weights are based on the following loader configuration: L3 Michelin XHA tires, air conditioning, ride control, power train guard, full fluids, fuel tank, coolant, lubricants, and operator. The rated operating load for a loader equipped with a logging fork is determined by: CEN EN 474-3: 80% of full turn static tipping load on firm and level ground or hydraulic limit. Refer to the Forks Product Bulletins for capacity load charts.

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

QC = Quick Coupler

950M Forestry Specifications

Operating Specifications with Logging Sorting Grapple



Machine Interface	Logger	
	Universal QC	
End Area	2.5 m ²	26.9 ft ²
1 Tine Length	1230 mm	4'0"
2 Fork Width	1837 mm	6'0"
3 Minimum Opening	1382 mm	4'5"
4 Distance Inside of Tine Tips	1284 mm	4'2"
5 Max Height of Fork (with Clamp Open if Applicable)	3133 mm	10'3"
6 Clearance with Full Lift, 45° Dump (If Max Dump <> 45)	2709 mm	8'9"
7 Clearance at Full Lift Fork Level	3701 mm	12'1"
8 Reach with Full Lift, 45° Dump (If Max Dump <> 45)	1412 mm	4'6"
9 Reach with Lift Arm Horizontal and Fork Level	2848 mm	9'3"
10 Digging Depth	-126 mm	-0.4'
11 Width Over Tines	1744 mm	5'7"
12 Reach at Ground Level	2286 mm	7'5"
13 Max Opening Across Tine and Clamp	2933 mm	9'6"
14 Overall Height of Fork at Full Lift and Clamp Open	6834 mm	22'4"
15 Overall Length (Tip of Tine to Rear of Machine)	8513 mm	28'0"
16 Clearance at Full Lift and Max Dump Discharge (If <> 45)	2565 mm	8'4"
17 Clearance with Horizontal Lift Arms and Fork Level	1740.9 mm	5'7"
18 Reach at Full Lift and Fork Level	2110.8 mm	6'9"
19 Max Discharge Angle From Horizontal	57°	57°
Rated Payload	6000 kg	13,228 lb
Static Tipping Load, Articulated Fork Level	7501 kg	16,537 lb
Static Tipping Load, Straight Fork Level	8865 kg	19,544 lb
Operating Weight	20 435 kg	45,051 lb

Static tipping loads and operating weights are based on the following loader configuration: L3 Michelin XHA tires, air conditioning, ride control, power train guard, full fluids, fuel tank, coolant, lubricants, and operator. The rated operating load for a loader equipped with a logging fork is determined by: CEN EN 474-3: 80% of full turn static tipping load on firm and level ground or hydraulic limit. Refer to the Forks Product Bulletins for capacity load charts.

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

QC = Quick Coupler

Woodchip Buckets – Pin-On and Fusion

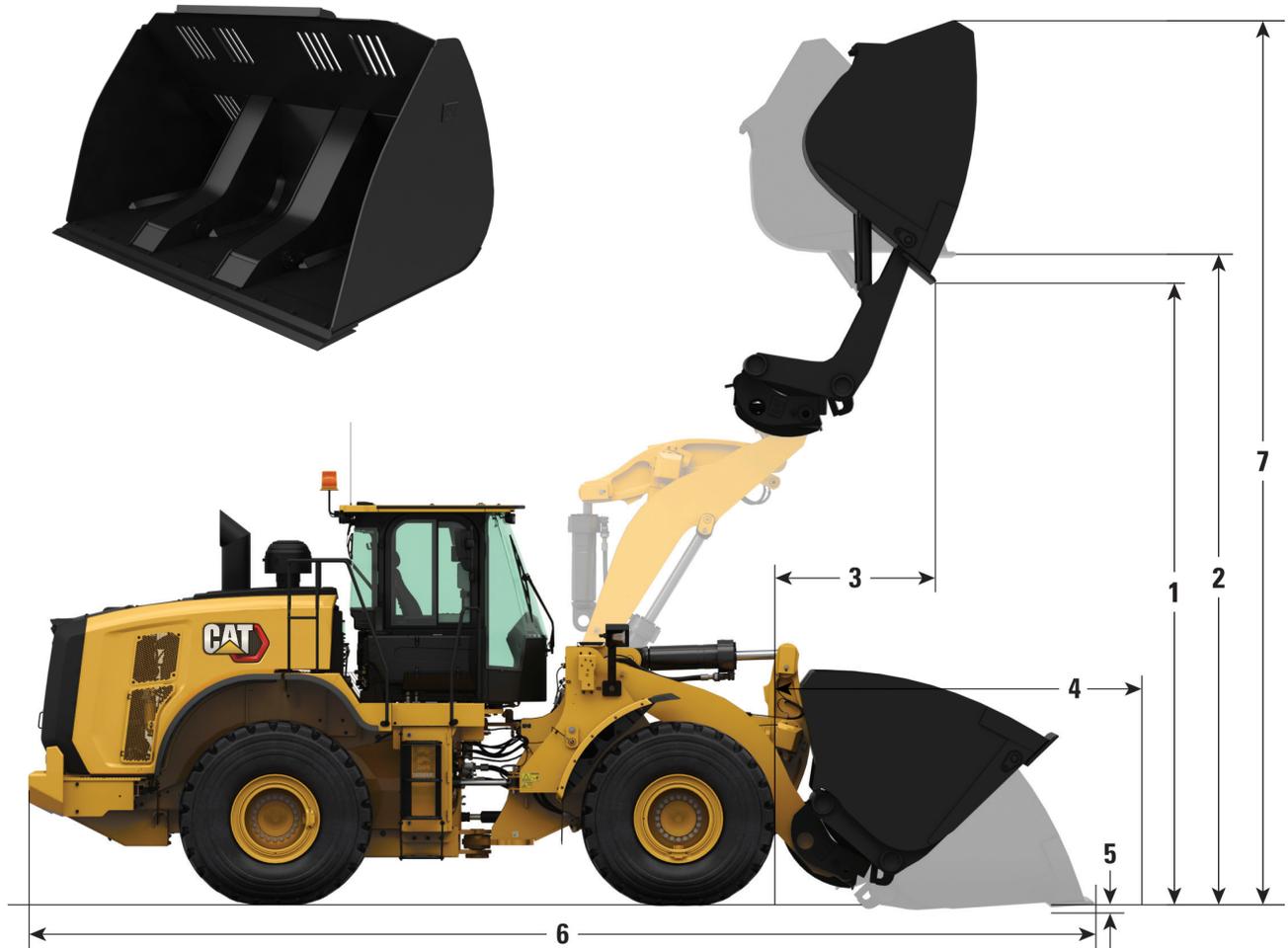


Package	950M Logger				
	Bucket Type		Pin-On	Fusion	
Edge Type		Bolt-On Cutting Edges			
Capacity – Rated	m ³	9.2	9.9	9.2	9.9
	yd ³	12.00	13.00	12.00	13.00
Capacity – Rated at 110% Fill Factor	m ³	10.1	10.9	10.1	10.9
	yd ³	13.25	14.25	13.25	14.25
Width	mm	3330	3330	3330	3330
	ft/in	10'11"	10'11"	10'11"	10'11"
Dump Clearance at Maximum Lift and 45° Discharge	mm	2275	2201	2182	2178
	ft/in	7'5"	7'2"	7'1"	7'1"
Reach at Maximum Lift and 45° Discharge	mm	1903	1978	1997	2001
	ft/in	6'2"	6'5"	6'6"	6'6"
Reach at Level Lift Arm and Bucket Level	mm	3501	3607	3633	3639
	ft/in	11'5"	11'10"	11'11"	11'11"
Digging Depth	mm	84	84	84	84
	ft/in	3.3"	3.3"	3.3"	3.3"
Overall Length	mm	9137	9243	9269	9275
	ft/in	29'12"	30'4"	30'5"	30'6"
Overall Height with Bucket at Maximum Lift	mm	6279	6371	6337	6388
	ft/in	20'8"	20'11"	20'10"	20'12"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7170	7206	7215	7217
	ft/in	23'7"	23'8"	23'9"	23'9"
Static Tipping Load, Straight (ISO)	kg	12 193	12 118	10 884	10 935
	lb	26,873	26,709	23,989	24,102
Static Tipping Load, Straight (Rigid Tire)	kg	13 050	12 986	11 636	11 697
	lb	28,763	28,622	25,646	25,780
Static Tipping Load, Articulated (ISO)	kg	10 356	10 274	9172	9217
	lb	22,824	22,645	20,216	20,315
Static Tipping Load, Articulated (Rigid Tire)	kg	11 223	11 152	9938	9993
	lb	24,737	24,580	21,905	22,024
Breakout Force	kN	119	112	111	110
	lbf	26,854	25,349	25,074	24,931
Operating Weight	kg	20 395	20 487	21 030	20 991
	lb	44,950	45,152	46,349	46,263

950M Forestry Specifications

Light Material High Dump Buckets

All dimensions are approximate.



Bucket Key Features

- High Dump bucket increases dump height 2.1 m (7'0") for largest size available on 950M
- High capacity available in Pin-on or Fusion coupler interface
- Ideal for low density and free flowing materials like wood chips and pellets
- Narrow tilt frame provides excellent cutting edge rigidity
- Adjustable windows provide a variety of configurations depending on the material being moved
- Requires 3rd valve hydraulics

Operating Specifications – Light Material High Dump Bucket

Package		950M Logger								
Bucket Type		Pin-On			Fusion			ISO		
Edge Type		Bolt-On Cutting Edges								
Capacity – Rated	m ³	6.10	7.60	9.20	6.10	7.60	9.20	6.10	7.60	9.20
	yd ³	8.00	10.00	12.00	8.00	10.00	12.00	8.00	10.00	12.00
Capacity – Rated at 110% Fill Factor	m ³	6.70	8.40	10.10	6.70	8.40	10.10	6.70	8.40	10.10
	yd ³	8.75	11.00	13.25	8.75	11.00	13.25	8.75	11.00	13.25
Width	mm	3037	3350	3350	3037	3350	3350	3037	3350	3350
	ft/in	9'11"	10'11"	10'11"	9'11"	10'11"	10'11"	9'11"	10'11"	10'11"
1 Dump Clearance at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	4543	4473	4332	4599	4528	4387	4611	4541	4400
	ft/in	14'10"	14'8"	14'2"	15'1"	14'10"	14'4"	15'1"	14'10"	14'5"
2 Clearance at Max Lift, Max Rack, Bucket Rolled out to Level	mm	4969	4969	4969	5025	5025	5025	5038	5038	5038
	ft/in	16'3"	16'3"	16'3"	16'5"	16'5"	16'5"	16'6"	16'6"	16'6"
3 Reach at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	1826	1899	2040	1862	1933	2074	1868	1940	2082
	ft/in	5'11"	6'2"	6'8"	6'1"	6'4"	6'9"	6'1"	6'4"	6'9"
4 Reach at Level Lift Arm and Bucket Level	mm	3372	3472	3672	3437	3537	3737	3452	3552	3752
	ft/in	11'0"	11'4"	12'0"	11'3"	11'7"	12'3"	11'3"	11'7"	12'3"
5 Digging Depth	mm	59	59	59	59	59	59	59	59	59
	ft/in	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"
6 Overall Length	mm	9011	9111	9311	9076	9176	9376	9091	9191	9391
	ft/in	29'7"	29'11"	30'7"	29'10"	30'2"	30'10"	29'10"	30'2"	30'10"
7 Overall Height with Bucket at Max Height and Max Rack	mm	6843	6882	7034	6898	6937	7089	6911	6950	7102
	ft/in	22'5"	22'6"	23'0"	22'7"	22'9"	23'3"	22'8"	22'9"	23'3"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7001	7171	7239	7022	7192	7262	7025	7197	7267
	ft/in	23'0"	23'6"	23'9"	23'0"	23'7"	23'10"	23'1"	23'7"	23'10"
Static Tipping Load, Straight (With Tire Deflection)*	kg	11 748	11 428	11 090	11 092	10 776	10 448	11 195	10 878	10 550
	lb	25,894	25,187	24,443	24,447	23,752	23,029	24,675	23,976	23,252
Static Tipping Load, Straight (No Tire Deflection)*	kg	12 577	12 256	11 923	11 903	11 587	11 262	12 003	11 685	11 360
	lb	27,719	27,012	26,278	26,234	25,538	24,822	26,455	25,755	25,039
Static Tipping Load, Articulated (With Tire Deflection)*	kg	9912	9603	9284	9284	8979	8670	9394	9087	8777
	lb	21,847	21,165	20,463	20,462	19,791	19,109	20,704	20,029	19,345
Static Tipping Load, Articulated (No Tire Deflection)*	kg	10 752	10 442	10 128	10 106	9802	9495	10 213	9906	9600
	lb	23,697	23,016	22,323	22,275	21,603	20,928	22,510	21,834	21,159
Breakout Force	kN	133	124	111	127	119	107	126	118	106
	lbf	29,924	28,037	25,059	28,681	26,898	24,097	28,394	26,635	23872
Operating Weight*	kg	20 893	21 122	21 295	21 459	21 689	21 861	21 238	21 468	21 641
	lb	46,047	46,552	46,933	47,295	47,801	48,181	46,807	47,314	47,696

*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 23.5R25 XHA2 L3 radial tires, full fluids, operator, Logger counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering and sound suppression.

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

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

950M Forestry Specifications

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
POWER TRAIN			OPERATOR ENVIRONMENT		
Axles, ecology drains	✓		Air conditioner, heater, and defroster (auto temp and fan)	✓	
Axles, manually actuated differential lock front axle, open differential rear axle	✓		Beverage holders (2) with storage compartment for cell phone/MP3 player	✓	
Axles: automatic front/rear differential locks, axle oil cooler, seal guards		✓	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 C7.1 – Stage V	✓		Cat seat cover, removable		✓
Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand	✓		Coat hook (2)	✓	
Fan, VPF (variable pitch fan), automatic and manual control		✓	Cover, HVAC metallic		✓
Fuel priming pump (electric)	✓		Door, remote opening system		✓
Fuel/water separator	✓		EH controls, SAL (single axis lever) lift and tilt function	✓	
Parking brake, disc and caliper	✓		EH controls, joystick lift and tilt: – Additional integrated roller switches for 3 rd and 4 th functions		✓
Precleaner, engine air intake	✓		EH controls, SAL 3 rd function: – Additional roller switch for 4 th function		✓
Radiator, high debris, wide fin spacing		✓	EH parking brake	✓	
Switch, transmission neutralizer lockout	✓		Filter, carbon fresh air		✓
Torque converter, locking clutch with free wheel stator	✓		Horn, electric	✓	
Transmission, automatic countershaft power shift (5F/3R)	✓		Light, two dome (cab)	✓	
CAT® CONNECT TECHNOLOGIES			Mirrors, heated rearview external with integrated spot mirrors		✓
Detect technologies:			Mirrors, rearview external with integrated spot mirrors	✓	
Rear vision camera	✓		Multi-function 18 cm color LCD touch-screen display for rear vision camera image display (reverse travel activated) and machine status, setting and health parameters	✓	
Cat rear object detection		✓	Post mounted membrane 16 switch keypad	✓	
Link technologies:			Precleaner, HVAC		✓
Product Link	✓		Precleaner, HVAC (RESPA)		✓
VIMS		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth®		✓
Payload technologies:			Radio, CB ready		✓
Cat Production Measurement 2.0 (CPM), Printer, Cat Production Measurement, Aggregate Autodig		✓	Radio ready (entertainment) includes antenna, speakers and converter (12V, 10-amp)	✓	
Advanced Productivity subscription		✓	Receptacles (2), 12V	✓	
Machine security system		✓			

(continued on next page)

Standard and Optional Equipment (continued)

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

	Standard	Optional
OPERATOR ENVIRONMENT (continued)		
Roof, metallic		✓
Seat, cloth, air suspension	✓	
Seat, suede/cloth, air suspension, heated		✓
Seat, leather/cloth, air suspension, heated/cooled		✓
Seat belt, 51 mm retractable, with indicator	✓	
Seat belt, 4-point harness, with indicator		✓
Seat, heated air suspension		✓
Steering, EH joystick, speed sensing with force feedback		✓
Steering, steering wheel	✓	
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 full guards front, rear and sides		✓
ELECTRICAL AND LIGHTING		
Alarm, back-up	✓	
Alternator, 145-amp brushed	✓	
Batteries (2), maintenance free 1,400 CCA	✓	
External seat belt indicator light		✓
Ignition key: start/stop switch	✓	
Lighting system: four halogen work lights (cab-mounted), two halogen roading lights (with signals), two halogen rear vision lights (hood-mounted), two rear LED position/stop/turn	✓	
Work lights, four additional halogen cab-mounted or;		✓
Work lights, two additional auxiliary front HI LED and two additional auxiliary rear LED cab-mounted, two LED work lights in the radiator grill, LED front turn signals, replacement of the standard four halogen cab mounted work lights with four LED work lights, LED roading lights		✓

	Standard	Optional
ELECTRICAL AND LIGHTING (continued)		
Main disconnect switch	✓	
Receptacle start (cables not included)	✓	
Reversing strobes		✓
Speed limiter – 20 km/h		✓
Starter, electric, heavy duty	✓	
Starting and charging system (24V)	✓	
Secondary steering	✓	
Warning amber strobe beacon		✓
FLUIDS		
Bio-degradable oil, Cat HYDO		✓
Premixed extended life coolant with freeze protection to -34°C	✓	
Premixed extended life coolant with freeze protection to -50°C		✓
HYDRAULICS		
Couplings, Cat O-ring face seal	✓	
Hoses, Cat XT	✓	
Hydraulic oil cooler (swing-out)	✓	
Hydraulic system, load sensing	✓	
Oil sampling valves	✓	
3 rd function with Ride Control: standard linkage, high lift linkage, forestry linkage		✓
4 th function with Ride Control: standard linkage, high lift linkage, forestry linkage		✓
Remote diagnostic pressure taps	✓	
Ride control, 2V	✓	
Steering, load sensing	✓	
LINKAGE		
Forestry		✓
High lift		✓
Kickout, lift and tilt, automatic (adjustable in cab)	✓	
Quick coupler ready		✓
Z-bar, cast crosstube/tilt lever	✓	
STARTERS, BATTERIES, AND ALTERNATORS		
Cold start – 240V		✓
WORK TOOLS		
Forks, logging		✓
Forks, pallet		✓
Fusion quick coupler, ISO coupler		✓
Performance Series buckets		✓

(continued on next page)

950M Forestry Specifications

Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
COMPUTERIZED MONITORING SYSTEM			OTHER STANDARD AND OPTIONAL EQUIPMENT		
With following gauges:	✓		Auto idle shutdown	✓	
Speedometer/tachometer			Cat Autolube System		✓
Digital gear range indicator			Cold weather package: transmission filter bypass, fan pump bypass, jacket water or engine block heater, ether aid ready		✓
Diesel Exhaust Fluid (DEF) level			Ecology drains for engine, transmission, and hydraulics	✓	
Temperature: engine coolant, hydraulic oil, transmission oil			Fenders with mud-flap/rear with extension	✓	
Fuel level			Fenders, roading		✓
With following warning indicators:	✓		Filters: fuel, engine air, engine oil, hydraulic oil, transmission	✓	
Temperature: axle oil, engine intake manifold			Fuel cooler	✓	
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	✓	
Hydraulic oil low			Hood, non-metallic power tilting	✓	
Parking brake			Platform, window washing		✓
DEF low level			Precleaner, turbine		✓
Transmission filter bypass			Precleaner, trash		✓
			Precleaner rain cap	✓	
			Service centers (electrical and hydraulic)	✓	
			Sight gauges: engine coolant, hydraulic oil, and transmission oil level	✓	
			Toolbox	✓	
			Vandalism protection caplocks	✓	
			OTHER CONFIGURATIONS		
			Industrial and waste handler		✓
			Forestry		✓

Recommended Equipment and Work Tools

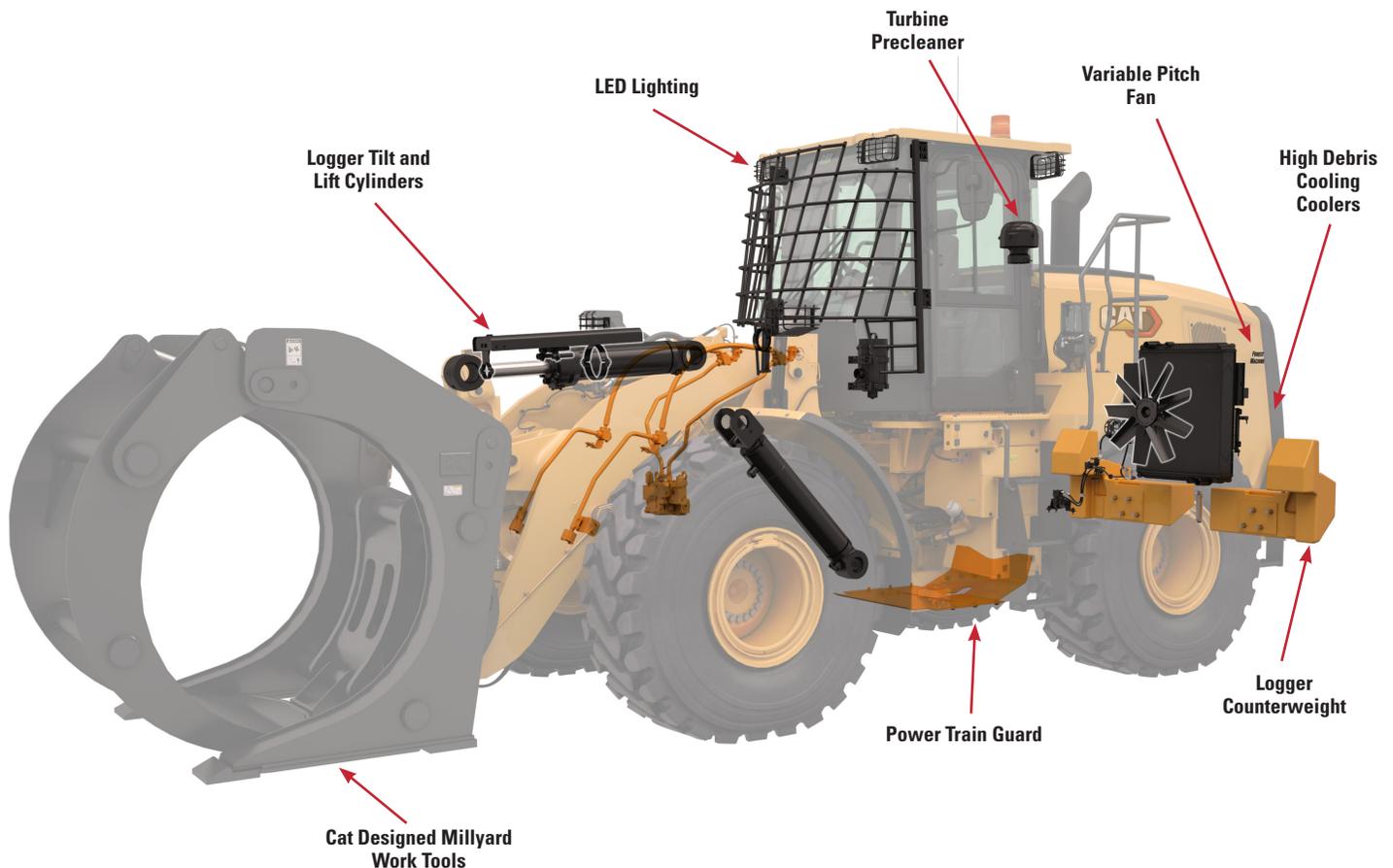
Recommended Forestry Configuration

- Logger tilt and lift cylinders
- Logger counterweight
- 3rd/4th function hydraulics
- Ride control
- Turbine engine precleaner
- LED lighting package
- Locking differential front axle
- Windshield guard
- Power train guard
- Suspension seat with dynamic dampening
- Variable pitch fan
- High debris cooling coolers
- Autolube
- Object detection
- Fusion quick coupler

Millyard Work Tools

- Sorting grapple forks
- Millyard forks
- Log and lumber forks 2134 mm (84") or 2438 mm (96") carriage; 1524 mm (60"), 1829 mm (72"), or 2438 mm (96") tines
- Pole forks (available with optional slip-on bucket)
- Woodchip buckets
- High dump buckets

950M Forestry Machine



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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