



# 950M

## Wheel Loader

# Technical Specifications

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

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# 950M Wheel Loader Specifications

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

Engine Model	Cat C7.1	
Maximum Power (2,000 rpm)		
SAE J1995	196 kW	263 hp
ISO 14396	195 kW	261 hp
ISO 14396 (metric)	265 hp	
Maximum Net Power (2,000 rpm)		
SAE J1349	185 kW	248 hp
ISO 9249	185 kW	248 hp
ISO 9249 (metric)	252 hp	
Peak Gross Torque (1,400 rpm)		
SAE J1995	1053 N·m	777 lbf-ft
Maximum Net Torque (1,400 rpm)		
SAE J1349	984 N·m	726 lbf-ft
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in <sup>3</sup>

1 Meets Brazil MAR-1 and UN ECE R96 Stage IIIA emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.

- The power ratings apply at the stated speed when tested under the reference conditions for the specified standards.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and aftertreatment.
- The gross power advertised is with the fan at maximum speed.

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

Engine Model	Cat C7.1	
Maximum Power (2,100 rpm)		
SAE J1995	187 kW	250 hp
ISO 14396	186 kW	249 hp
ISO 14396 (metric)	253 hp	
Maximum Net Power (2,100 rpm)		
SAE J1349	171 kW	230 hp
ISO 9249	171 kW	230 hp
ISO 9249 (metric)	232 hp	
Peak Gross Torque (1,300 rpm)		
SAE J1995	1235 N·m	911 lbf-ft
Maximum Net Torque (1,300 rpm)		
SAE J1349	1163 N·m	858 lbf-ft
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in <sup>3</sup>

2 Meets either U.S. EPA Tier 4 Final or EU Stage V, and Korea Tier 4 Final emission standards depending on region.

- The power ratings apply at the stated speed when tested under the reference conditions for the specified standards.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and aftertreatment.
- The gross power advertised is with the fan at maximum speed.

## Buckets

Bucket Capacities	2.50-9.20 m <sup>3</sup>	3.30-12.00 yd <sup>3</sup>
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## Weight

Operating Weight	19 213 kg	42,357 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 3.1 m<sup>3</sup> (4.1 yd<sup>3</sup>) general purpose bucket with BOCE.

# 950M Wheel Loader Specifications

## Operating Specifications

Static Tipping Load – Full 40° Turn		
With Tire Deflection	11 005 kg	24,262 lb
No Tire Deflection	11 760 kg	25,926 lb
Breakout Force	181 kN	40,690 lbf

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

## Transmission

Forward 1	6.9 km/h	4.3 mph
Forward 2	12.0 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	12.0 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 (31 in) 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 <sup>rd</sup> /4 <sup>th</sup> Function Maximum Flow	240 L/min	63 gal/min
Optional 3 <sup>rd</sup> /4 <sup>th</sup> Function Maximum Pressure	21 780 kPa	3,159 psi
Hydraulic Cycle Time with Rated Payload		
Raise from Carry Position	5.1 Sec.	
Dump, at Maximum Raise	1.5 Sec.	
Lower, Empty, Float Down	2.3 Sec.	
Total	8.9 Sec.	

## 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)	
Tier 3/Stage IIIA Equivalent	72 dB(A)*
Tier 4 Final/Stage V	70 dB(A)*
Exterior Sound Power Level (ISO 6395:2008)	107 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 maximum value.

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

## Service Refill Capacities

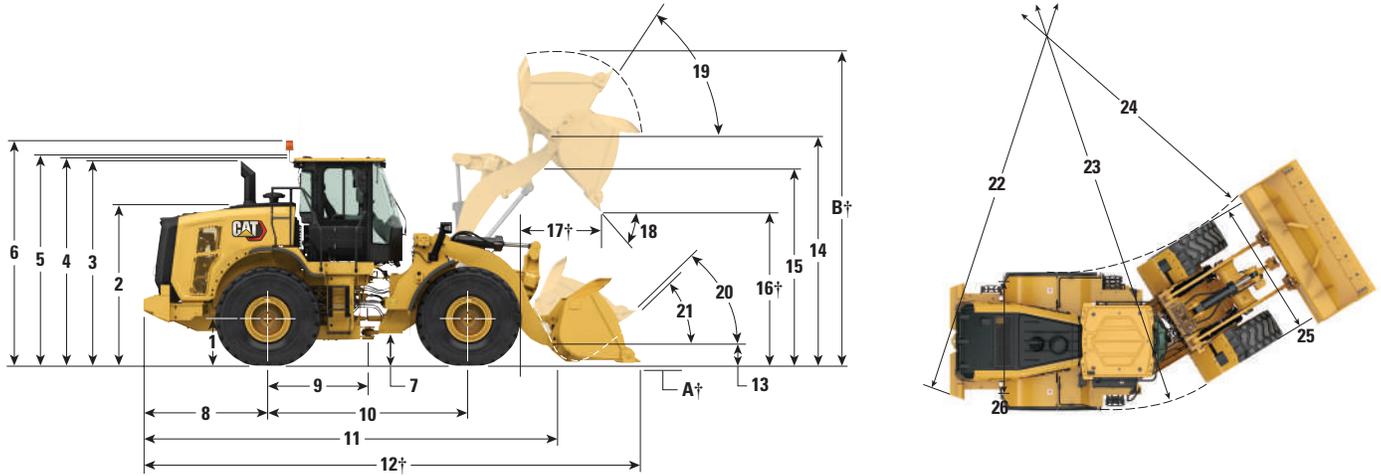
Fuel Tank	275 L	72.6 gal
DEF Tank*	16 L	4.2 gal
Cooling System	59 L	15.6 gal
Crankcase	22 L	5.8 gal
Transmission	43 L	11.4 gal
Differentials and Final Drives – Front	43 L	11.4 gal
Differentials and Final Drives – Rear	43 L	11.4 gal
Hydraulic Tank	125 L	33.0 gal

\*Must meet the requirements outlined in ISO 22241-1 for Tier 4 Final/Stage V models.

# 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	1942 mm	6'4"	1942 mm	6'4"
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)	6906 mm	22'8"	7488 mm	24'7"
12 Shipping Length (with bucket level on ground)*†	8199 mm	26'11"	8781 mm	28'10"
13 Hinge Pin Height at Carry Height	647 mm	2'1"	782 mm	2'7"
14 Hinge Pin Height at Maximum Lift	4027 mm	13'3"	4527 mm	14'10"
15 Lift Arm Clearance at Maximum Lift	3280 mm	10'9"	3634 mm	11'11"
16 Dump Clearance at Maximum Lift and 45° Discharge*†	2876 mm	9'5"	3382 mm	11'1"
17 Reach at Maximum Lift and 45° Discharge*†	1430 mm	4'8"	1465 mm	4'10"
18 Dump Angle at Maximum Lift and Dump (on stops)*	51 degrees		48 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	3163 mm	10'5"	3179 mm	10'5"
25 Width over Tires (unloaded)	2814 mm	9'3"	2814 mm	9'3"
Width over Tires (loaded)	2822 mm	9'3"	2822 mm	9'3"
26 Tread Width	2140 mm	7'0"	2140 mm	7'0"

\*With 3.1 m<sup>3</sup> (4.1 yd<sup>3</sup>) general purpose pin on bucket with BOCE (see Operating Specifications 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	Bridgestone	Michelin	Bridgestone
Tire Size	23.5R25	23.5R25	23.5R25	23.5-25	23.5R25	750/65R25	23.5-25
Tread Type	L-3	L-3	L-3	L-3	L-3	L-3	L-3
Tread Pattern	XHA2	VMT	RT-3B	SRG LD	VJT	XLD	VL2
Width over Tires – Maximum (empty)*	2814 mm 9'2"	2805 mm 9'2"	2835 mm 9'4"	2768 mm 9'1"	2798 mm 9'2"	2948 mm 9'8"	2769 mm 9'1"
Width over Tires – Maximum (loaded)*	2822 mm 9'3"	2834 mm 9'4"	2846 mm 9'4"	2795 mm 9'2"	2831 mm 9'3"	2965 mm 9'9"	2782 mm 9'2"
Change in Vertical Dimensions (average of front and rear)	0 mm 0"	-3 mm -0.1"	-1 mm 0"	1 mm 0"	-6 mm -0.2"	-6 mm -0.2"	14 mm 0.6"
Change in Horizontal Reach	0 mm 0"	6 mm 0.2"	3 mm 0.1"	-16 mm -0.6"	6 mm 0.2"	11 mm 0.4"	3 mm 0.1"
Change in Clearance Circle (radius) to Outside of Tires	0 mm 0"	12 mm 0.5"	24 mm 1"	-27 mm -1.1"	9 mm 0.4"	143 mm 5.6"	-40 mm -1.6"
Change in Clearance Circle (radius) to Inside of Tires	0 mm 0"	-12 mm -0.5"	-24 mm -1"	27 mm 1.1"	-9 mm -0.4"	-143 mm -5.6"	40 mm 1.6"
Change in Operating Weight (without Ballast)	0 kg 0 lb	188 kg 414 lb	127 kg 280 lb	-248 kg -547 lb	168 kg 370 lb	801 kg 1,766 lb	-100 kg -220 lb
Change in Static Tipping Load – Straight	0 kg 0 lb	125 kg 276 lb	85 kg 187 lb	-165 kg -364 lb	112 kg 247 lb	534 kg 1,177 lb	-67 kg -148 lb
Change in Static Tipping Load – Articulated	0 kg 0 lb	109 kg 240 lb	74 kg 163 lb	-144 kg -317 lb	98 kg 216 lb	466 kg 1,027 lb	-58 kg -128 lb

\*Width over bulge and includes tire growth.

# 950M Wheel Loader Specifications

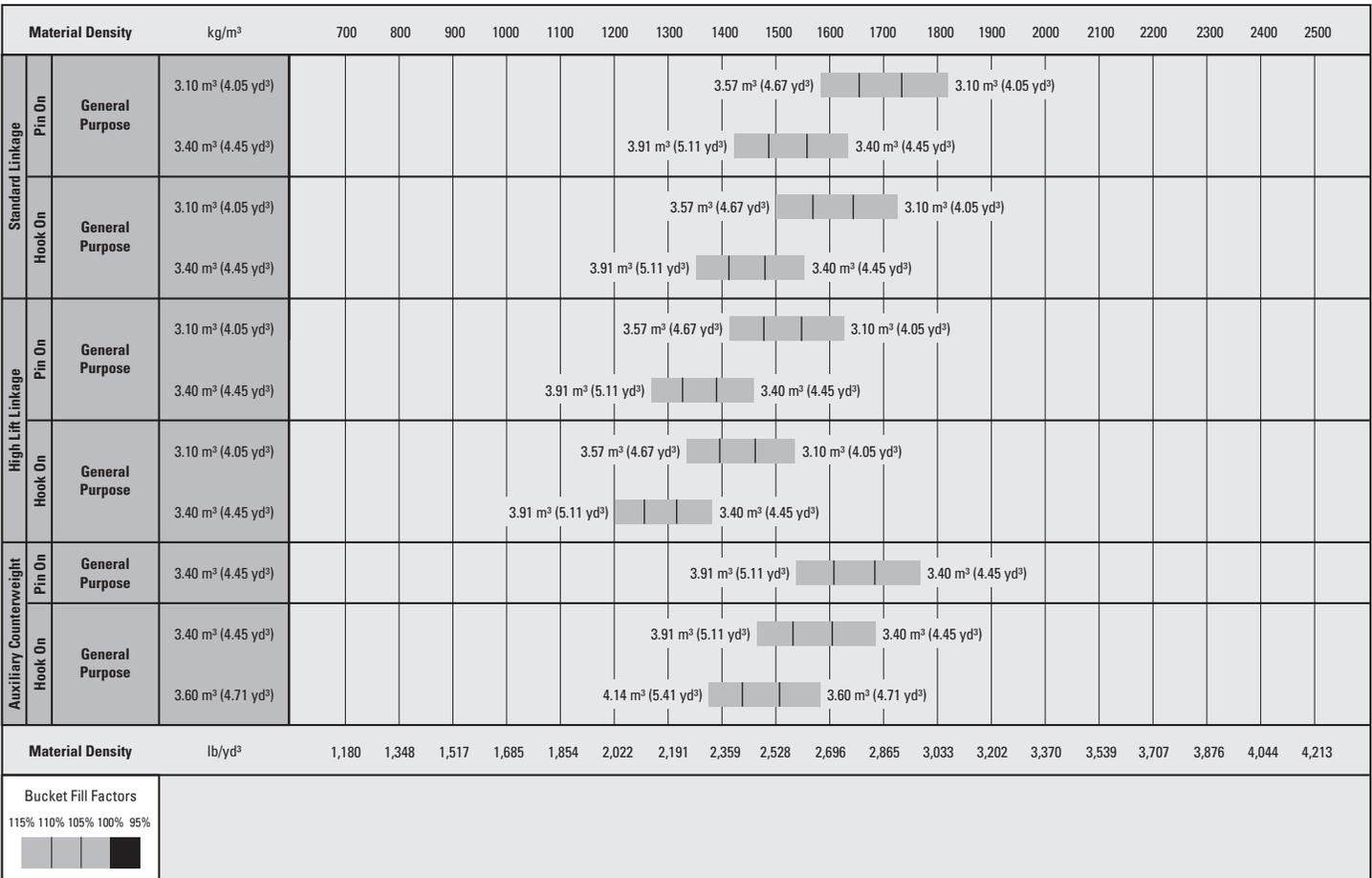
## Bucket Fill Factors and Selection Guide

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 <sup>3</sup> (2,528-2,865 lb/yd <sup>3</sup> )	115
Sand and Gravel		1500-1700 kg/m <sup>3</sup> (2,528-2,865 lb/yd <sup>3</sup> )	115
Aggregate:	25-76 mm (1 to 3 in)	1600-1700 kg/m <sup>3</sup> (2,696-2,865 lb/yd <sup>3</sup> )	110
	19 mm (0.75 in) and smaller	1800 kg/m <sup>3</sup> (3,033 lb/yd <sup>3</sup> )	105
Rock:	76 mm (3 in) and larger	1600 kg/m <sup>3</sup> (2,696 lb/yd <sup>3</sup> )	100

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

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



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

# 950M Wheel Loader Specifications

## Operating Specifications – Buckets

Linkage		Standard Linkage						
Bucket Type		General Purpose			Pin On			High Lift Linkage Change**
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Tips	Bolt-On Cutting Edges	Teeth and Segments	Tips	
Capacity – Rated	m <sup>3</sup>	3.10	3.10	2.90	3.40	3.40	3.20	—
	yd <sup>3</sup>	4.05	4.05	3.79	4.45	4.45	4.19	—
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	3.41	3.41	3.19	3.74	3.74	3.52	—
	yd <sup>3</sup>	4.46	4.46	4.17	4.89	4.89	4.60	—
Width	mm	2927	2994	2994	2927	2994	2994	—
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"	—
<b>16</b> † Dump Clearance at Maximum Lift and 45° Discharge	mm	2876	2758	2758	2819	2700	2700	505
	ft/in	9'5"	9'0"	9'0"	9'3"	8'10"	8'10"	1'7"
<b>17</b> † Reach at Maximum Lift and 45° Discharge	mm	1429	1540	1540	1473	1582	1582	35
	ft/in	4'8"	5'0"	5'0"	4'10"	5'2"	5'2"	1"
Reach at Level Lift Arm and Bucket Level	mm	2688	2849	2849	2761	2922	2922	374
	ft/in	8'9"	9'4"	9'4"	9'0"	9'7"	9'7"	1'2"
<b>A</b> † Digging Depth	mm	90	90	60	90	90	60	4
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"	0.1"
<b>12</b> † Overall Length	mm	8199	8372	8372	8272	8445	8445	583
	ft/in	26'11"	27'6"	27'6"	27'2"	27'9"	27'9"	1'11"
<b>B</b> † Overall Height with Bucket at Maximum Lift	mm	5525	5525	5525	5597	5597	5597	506
	ft/in	18'2"	18'2"	18'2"	18'5"	18'5"	18'5"	1'8"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	6881	6966	6966	6903	6988	6988	197
	ft/in	22'7"	22'10"	22'10"	22'8"	22'11"	22'11"	8.0"
Static Tipping Load, Straight (With Tire Deflection)*	kg	12 769	12 629	12 912	12 605	12 463	12 742	-1277
	lb	28,144	27,834	28,458	27,783	27,469	28,083	-2,814
Static Tipping Load, Straight (No Tire Deflection)*	kg	13 510	13 368	13 658	13 349	13 205	13 491	-1436
	lb	29,776	29,463	30,103	29,421	29,105	29,734	-3,165
Static Tipping Load, Articulated (With Tire Deflection)*	kg	11 004	10 864	11 129	10 847	10 705	10 966	-1184
	lb	24,254	23,944	24,529	23,908	23,594	24,169	-2,610
Static Tipping Load, Articulated (No Tire Deflection)*	kg	11 759	11 617	11 889	11 605	11 461	11 728	-1333
	lb	25,917	25,604	26,203	25,577	25,260	25,849	-2,939
Breakout Force	kN	181	179	196	170	169	184	-9
	lbf	40,706	40,421	44,216	38,333	38,050	41,455	-2,026
Operating Weight*	kg	19 214	19 322	19 165	19 307	19 415	19 258	603
	lb	42,346	42,584	42,238	42,552	42,790	42,444	1,328

\*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

Linkage		Standard Linkage						
Bucket Type		General Purpose			Hook On			High Lift Linkage Change**
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Tips	Bolt-On Cutting Edges	Teeth and Segments	Tips	
Capacity – Rated	m <sup>3</sup>	3.10	3.10	2.90	3.40	3.40	3.20	—
	yd <sup>3</sup>	4.05	4.05	3.79	4.45	4.45	4.19	—
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	3.41	3.41	3.19	3.74	3.74	3.52	—
	yd <sup>3</sup>	4.46	4.46	4.17	4.89	4.89	4.60	—
Width	mm	2927	2994	2994	2927	2994	2994	—
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"	—
<b>16</b> † Dump Clearance at Maximum Lift and 45° Discharge	mm	2837	2718	2718	2779	2660	2660	505
	ft/in	9'3"	8'11"	8'11"	9'1"	8'8"	8'8"	1'7"
<b>17</b> † Reach at Maximum Lift and 45° Discharge	mm	1475	1585	1585	1518	1627	1627	35
	ft/in	4'10"	5'2"	5'2"	4'11"	5'4"	5'4"	1"
Reach at Level Lift Arm and Bucket Level	mm	2748	2909	2909	2821	2982	2982	374
	ft/in	9'0"	9'6"	9'6"	9'3"	9'9"	9'9"	1'2"
<b>A</b> † Digging Depth	mm	90	90	60	90	90	60	4
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"	0.1"
<b>12</b> † Overall Length	mm	8259	8432	8432	8332	8505	8505	583
	ft/in	27'2"	27'8"	27'8"	27'5"	27'11"	27'11"	1'11"
<b>B</b> † Overall Height with Bucket at Maximum Lift	mm	5558	5558	5558	5630	5630	5630	506
	ft/in	18'3"	18'3"	18'3"	18'6"	18'6"	18'6"	1'8"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	6895	6981	6981	6917	7003	7003	197
	ft/in	22'7"	22'11"	22'11"	22'8"	23'0"	23'0"	8.0"
Static Tipping Load, Straight (With Tire Deflection)*	kg	12 183	12 043	12 373	12 051	11 909	12 237	-1277
	lb	26,853	26,544	27,271	26,561	26,249	26,971	-2,814
Static Tipping Load, Straight (No Tire Deflection)*	kg	12 913	12 771	13 113	12 784	12 641	12 981	-1436
	lb	28,461	28,148	28,902	28,176	27,860	28,610	-3,165
Static Tipping Load, Articulated (With Tire Deflection)*	kg	10 445	10 305	10 617	10 319	10 178	10 488	-1184
	lb	23,022	22,713	23,400	22,744	22,432	23,116	-2,610
Static Tipping Load, Articulated (No Tire Deflection)*	kg	11 189	11 047	11 371	11 066	10 923	11 245	-1333
	lb	24,661	24,349	25,063	24,391	24,075	24,785	-2,939
Breakout Force	kN	172	171	186	162	161	175	-9
	lbf	38,754	38,471	41,942	36,598	36,318	39,451	-2,026
Operating Weight*	kg	19 683	19 791	19 634	19 753	19 861	19 704	603
	lb	43,382	43,620	43,274	43,536	43,774	43,428	1,328

\*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

Package		Auxiliary Counterweight		
Bucket Type		General Purpose – Pin On	General Purpose – Hook On	
		Bolt-On Cutting Edges	Bolt-On Cutting Edges	Bolt-On Cutting Edges
Capacity – Rated	m <sup>3</sup>	3.40	3.40	3.60
	yd <sup>3</sup>	4.45	4.45	4.71
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	3.74	3.74	3.96
	yd <sup>3</sup>	4.89	4.89	5.18
Width	mm	2927	2927	2927
	ft/in	9'7"	9'7"	9'7"
<b>16</b> † Dump Clearance at Maximum Lift and 45° Discharge	mm	2819	2779	2753
	ft/in	9'3"	9'1"	9'0"
<b>17</b> † Reach at Maximum Lift and 45° Discharge	mm	1473	1518	1539
	ft/in	4'10"	4'11"	5'0"
Reach at Level Lift Arm and Bucket Level	mm	2761	2821	2856
	ft/in	9'0"	9'3"	9'4"
<b>A</b> † Digging Depth	mm	90	90	90
	in	3.5"	3.5"	3.5"
<b>12</b> † Overall Length	mm	8401	8461	8496
	ft/in	27'7"	27'10"	27'11"
<b>B</b> † Overall Height with Bucket at Maximum Lift	mm	5597	5630	5664
	ft/in	18'5"	18'6"	18'7"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	6903	6917	6927
	ft/in	22'7"	22'8"	22'9"
Static Tipping Load, Straight (With Tire Deflection)*	kg	13 644	13 074	13 006
	lb	30,072	28,815	28,666
Static Tipping Load, Straight (No Tire Deflection)*	kg	14 462	13 880	13 814
	lb	31,874	30,592	30,446
Static Tipping Load, Articulated (With Tire Deflection)*	kg	11 704	11 163	11 099
	lb	25,797	24,604	24,462
Static Tipping Load, Articulated (No Tire Deflection)*	kg	12 541	11 988	11 926
	lb	27,640	26,422	26,285
Breakout Force	kN	170	162	158
	lbf	38,333	36,598	35,639
Operating Weight*	kg	19 807	20 253	20 287
	lb	43,654	44,638	44,713

\*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.

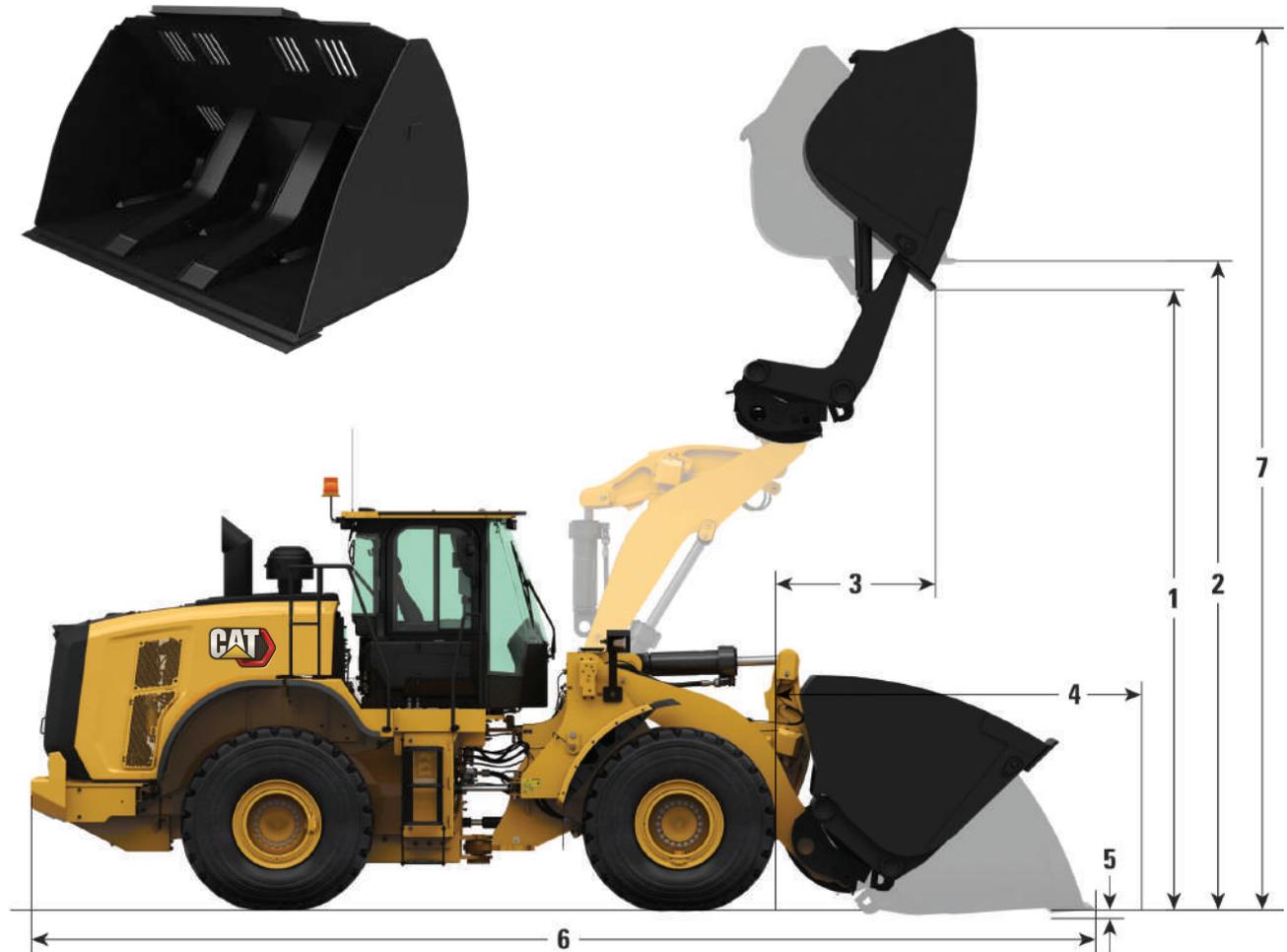
†Illustration shown with Dimension charts.

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, Fusion, or VCE 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™			VCE-ISO		
Edge Type		Bolt-On Cutting Edges								
Capacity – Rated	m <sup>3</sup>	6.10	7.60	9.20	6.10	7.60	9.20	6.10	7.60	9.20
	yd <sup>3</sup>	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 <sup>3</sup>	6.70	8.40	10.10	6.70	8.40	10.10	6.70	8.40	10.10
	yd <sup>3</sup>	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"
<b>1</b> 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"
<b>2</b> 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"
<b>3</b> 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"
<b>4</b> 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"
<b>5</b> 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"
<b>6</b> 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"
<b>7</b> 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			VCE-ISO		
Edge Type		Bolt-On Cutting Edges								
Capacity – Rated	m <sup>3</sup>	6.10	7.60	9.20	6.10	7.60	9.20	6.10	7.60	9.20
	yd <sup>3</sup>	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 <sup>3</sup>	6.70	8.40	10.10	6.70	8.40	10.10	6.70	8.40	10.10
	yd <sup>3</sup>	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"
<b>1</b> 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"
<b>2</b> 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"
<b>3</b> 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"
<b>4</b> 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"
<b>5</b> 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"
<b>6</b> 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"
<b>7</b> 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			VCE-ISO		
Edge Type		Bolt-On Cutting Edges								
Capacity – Rated	m <sup>3</sup>	6.10	7.60	9.20	6.10	7.60	9.20	6.10	7.60	9.20
	yd <sup>3</sup>	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 <sup>3</sup>	6.70	8.40	10.10	6.70	8.40	10.10	6.70	8.40	10.10
	yd <sup>3</sup>	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"
<b>1</b> 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"
<b>2</b> 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"
<b>3</b> 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"
<b>4</b> 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"
<b>5</b> 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"
<b>6</b> 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"
<b>7</b> 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

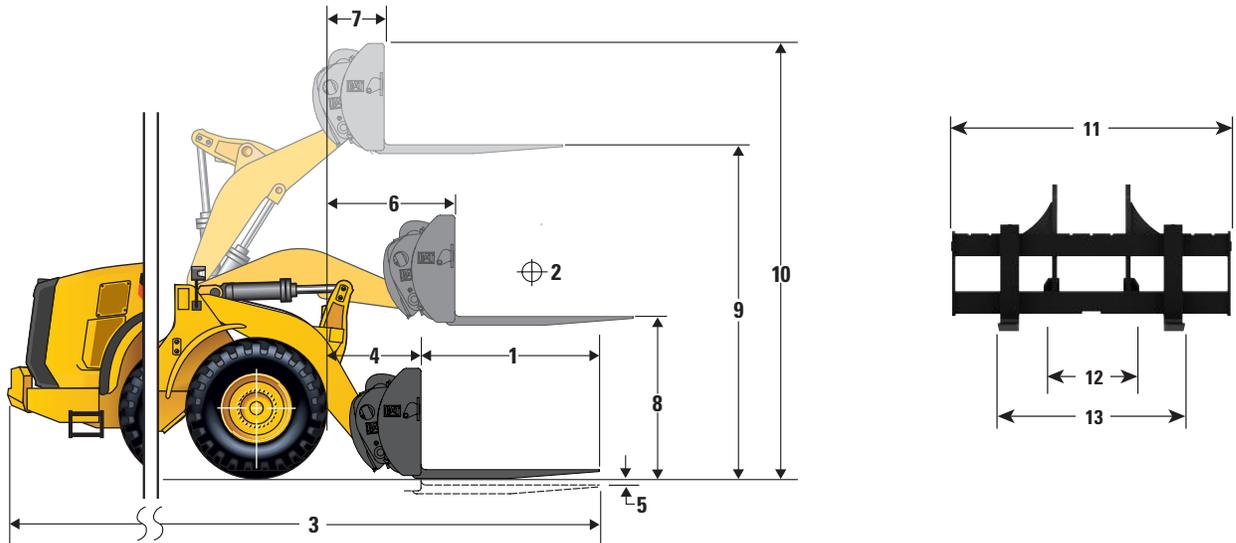
\*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 23.5R25 XHA2 L3 radial tires, full fluids, operator, auxiliary counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering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

## Pallet and Construction Forks – ITA



Pallet Fork - Fusion

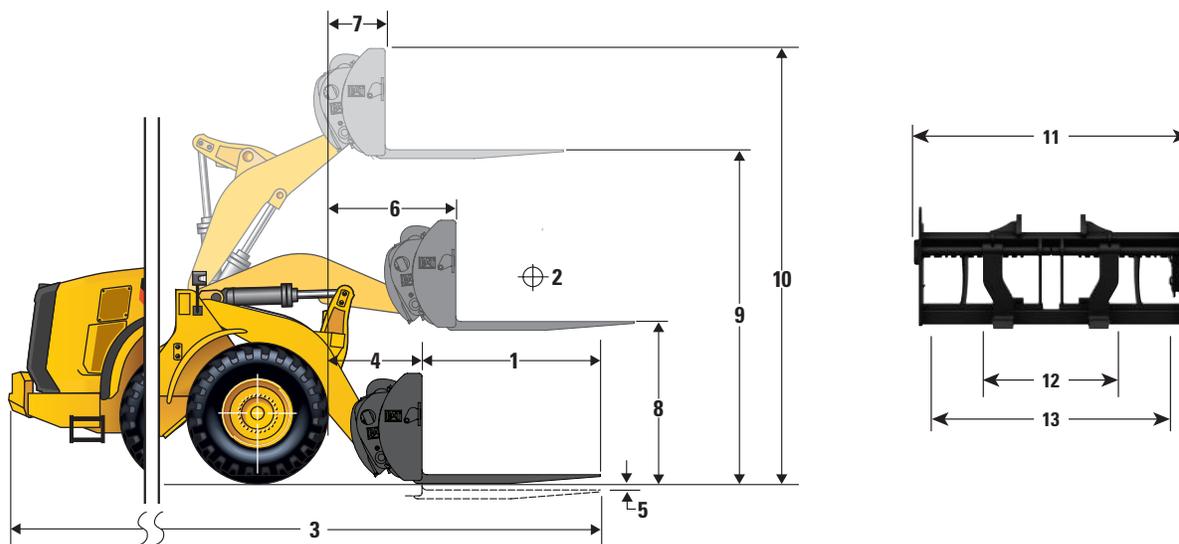
	60" Tines		72" Tines	
	mm	ft' in"	mm	ft' in"
<b>1</b> Fork Tine Length	1524	5' 0"	1830	6' 0"
<b>2</b> Load Center	762	2' 6"	915	3' 0"
<b>3</b> Overall Length	8865	29' 1"	9171	30' 1"
<b>4</b> Reach at Ground	1243	4' 1"	1243	4' 1"
<b>5</b> Dig Depth	-82	-3.2	-82	-3.2
<b>6</b> Reach with Level Arm	1746	5' 9"	1746	5' 9"
<b>7</b> Reach at Full Lift	1031	3' 5"	1031	3' 5"
<b>8</b> Clearance with Level Arm	1785	5' 10"	1785	5' 10"
<b>9</b> Clearance at Full Lift	3720	12' 2"	3720	12' 2"
<b>10</b> Overall Height	3942	12' 11"	3942	12' 11"
<b>11</b> Carriage Width	2217	7' 3"	2217	7' 3"
<b>12</b> Minimum Fork Spacing	470	1' 7"	470	1' 7"
<b>13</b> Maximum Fork Spacing	2070	6' 9"	2070	6' 9"
Tine Width	150	6"	150	6"
Tine Thickness	65	2.5"	65	2.5"
	<b>kg</b>	<b>lb</b>	<b>kg</b>	<b>lb</b>
Load Capacity (per pair)	6300	13,892	5246	11,567
Tipping Load – Straight*	9461	20,862	9002	19,849
Tipping Load – Full Turn*	8201	18,083	7796	17,190
Operating Weight	18 903	41,681	18 950	41,785
Rated Load % of Full Turn Tip:				
50% of Tip**	4100	9,041	3898	8,595
60% of Tip (rough terrain)	4920	10,849	4677	10,313
80% of Tip (firm and level)	6560	14,465	6237	13,753

\*ISO 14397-1:2007

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

# 950M Wheel Loader Specifications

## Operating Specifications – 96" Construction Fork



Construction Fork – Fusion

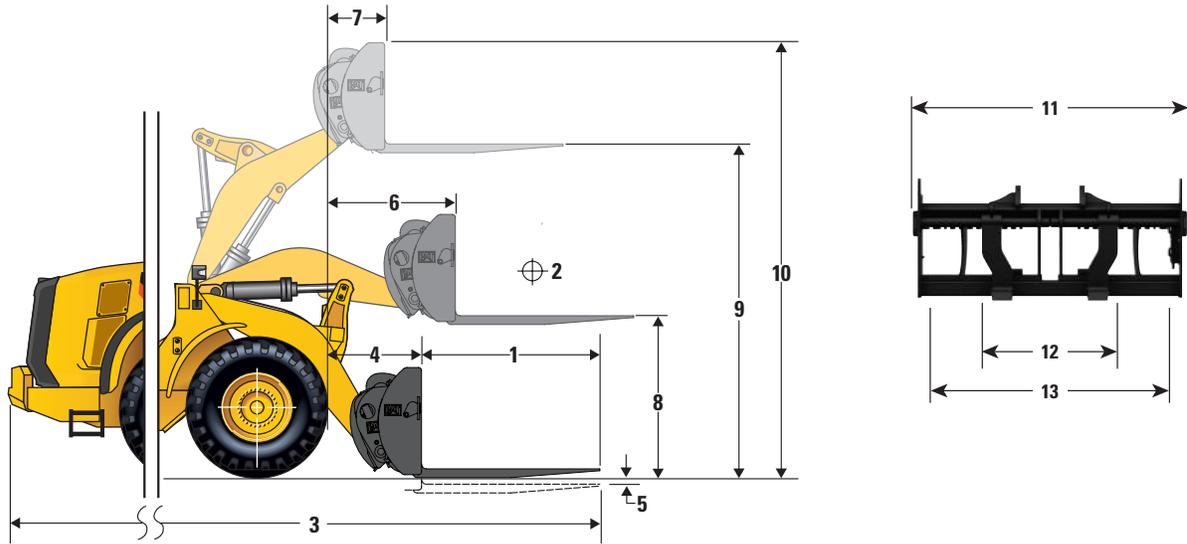
	48" Tines		60" Tines		72" Tines		84" Tines		96" Tines	
	mm	ft' in"								
<b>1</b> Fork Tine Length	1220	4' 0"	1524	5' 0"	1830	6' 0"	2134	7' 0"	2438	7' 11"
<b>2</b> Load Center	610	2' 0"	762	2' 6"	915	3' 0"	1067	3' 6"	1220	4' 0"
<b>3</b> Overall Length	8515	27' 11"	8820	28' 11"	9125	29' 11"	9430	30' 11"	9734	31' 11"
<b>4</b> Reach at Ground	1197	3' 11"	1198	3' 11"	1198	3' 11"	1198	3' 11"	1198	3' 11"
<b>5</b> Dig Depth	24	0.9"	24	0.9"	24	0.9"	24	0.9"	24	0.9"
<b>6</b> Reach with Level Arm	1738	5' 8"	1738	5' 8"	1738	5' 8"	1738	5' 8"	1738	5' 8"
<b>7</b> Reach at Full Lift	1023	3' 4"	1023	3' 4"	1023	3' 4"	1023	3' 4"	1023	3' 4"
<b>8</b> Clearance with Level Arm	1890	6' 2"	1890	6' 2"	1890	6' 2"	1890	6' 2"	1890	6' 2"
<b>9</b> Clearance at Full Lift	3825	12' 7"	3825	12' 7"	3825	12' 7"	3825	12' 7"	3825	12' 7"
<b>10</b> Overall Height	4866	16' 0"	4866	16' 0"	4866	16' 0"	4866	16' 0"	4866	16' 0"
<b>11</b> Carriage Width	2528	8' 4"	2528	8' 4"	2528	8' 4"	2528	8' 4"	2528	8' 4"
<b>12</b> Minimum Fork Spacing	576	1' 11"	576	1' 11"	576	1' 11"	576	1' 11"	576	1' 11"
<b>13</b> 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"
	<b>kg</b>	<b>lb</b>								
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 – 108" Construction Fork



Construction Fork - Fusion

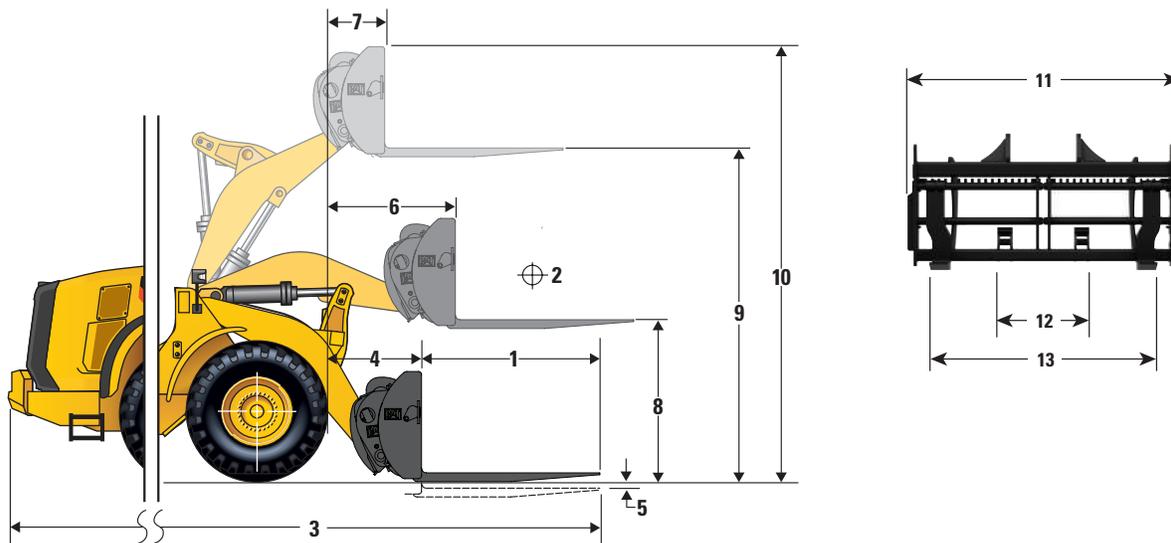
	48" Tines		60" Tines		72" Tines		84" Tines		96" Tines	
	mm	ft' in"								
<b>1</b> Fork Tine Length	1220	4' 0"	1524	5' 0"	1830	6' 0"	2134	7' 0"	2438	7' 11"
<b>2</b> Load Center	610	2' 0"	762	2' 6"	915	3' 0"	1067	3' 6"	1220	4' 0"
<b>3</b> Overall Length	8515	27' 11"	8820	28' 11"	9125	29' 11"	9430	30' 11"	9734	31' 11"
<b>4</b> Reach at Ground	1197	3' 11"	1197	3' 11"	1197	3' 11"	1197	3' 11"	1197	3' 11"
<b>5</b> Dig Depth	24	0.9"	24	0.9"	24	0.9"	24	0.9"	24	0.9"
<b>6</b> Reach with Level Arm	1738	5' 8"	1738	5' 8"	1738	5' 8"	1738	5' 8"	1738	5' 8"
<b>7</b> Reach at Full Lift	1023	3' 4"	1023	3' 4"	1023	3' 4"	1023	3' 4"	1023	3' 4"
<b>8</b> Clearance with Level Arm	1890	6' 2"	1890	6' 2"	1890	6' 2"	1890	6' 2"	1890	6' 2"
<b>9</b> Clearance at Full Lift	3825	12' 7"	3825	12' 7"	3825	12' 7"	3825	12' 7"	3825	12' 7"
<b>10</b> Overall Height	4866	16' 0"	4866	16' 0"	4866	16' 0"	4866	16' 0"	4866	16' 0"
<b>11</b> Carriage Width	2833	9' 4"	2833	9' 4"	2833	9' 4"	2833	9' 4"	2833	9' 4"
<b>12</b> Minimum Fork Spacing	590	1' 11"	590	1' 11"	590	1' 11"	590	1' 11"	590	1' 11"
<b>13</b> 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"
	<b>kg</b>	<b>lb</b>								
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 – 87" Carriage Pallet Fork



Pallet Fork - Fusion

	48" Tines		60" Tines		72" Tines	
	mm	ft' in"	mm	ft' in"	mm	ft' in"
<b>1</b> Fork Tine Length	1220	4' 0"	1524	5' 0"	1830	6' 0"
<b>2</b> Load Center	610	2' 0"	762	2' 6"	915	3' 0"
<b>3</b> Overall Length	8438	27' 8"	8743	28' 8"	9047	29' 8"
<b>4</b> Reach at Ground	1120	3' 8"	1120	3' 8"	1120	3' 8"
<b>5</b> Dig Depth	-64	-2.5"	-64	-2.5"	-64	-2.5"
<b>6</b> Reach with Level Arm	1634	5' 4"	1634	5' 4"	1634	5' 4"
<b>7</b> Reach at Full Lift	919	3' 0"	919	3' 0"	919	3' 0"
<b>8</b> Clearance with Level Arm	1802	5' 11"	1802	5' 11"	1802	5' 11"
<b>9</b> Clearance at Full Lift	3737	12' 3"	3737	12' 3"	3737	12' 3"
<b>10</b> Overall Height	4805	15' 9"	4805	15' 9"	4805	15' 9"
<b>11</b> Carriage Width	2235	7' 4"	2235	7' 4"	2235	7' 4"
<b>12</b> Minimum Fork Spacing	385	1' 3"	385	1' 3"	385	1' 3"
<b>13</b> Maximum Fork Spacing	1947	6' 5"	1947	6' 5"	1947	6' 5"
Tine Width	150	6"	150	6"	150	6"
Tine Thickness	65	2.5"	65	2.5"	65	2.5"
	<b>kg</b>	<b>lb</b>	<b>kg</b>	<b>lb</b>	<b>kg</b>	<b>lb</b>
Load Capacity (per pair)	8800	19,404	6590	14,531	5850	12,899
Tipping Load – Straight*	10 415	22,965	9888	21,803	9405	20,738
Tipping Load – Full Turn*	9046	19,946	8583	18,926	8160	17,993
Operating Weight	18 751	41,346	18 789	41,430	18 826	41,511
Rated Load % of Full Turn Tip:						
50% of Tip**	4523	9,973	4292	9,464	4080	8,996
60% of Tip (rough terrain)	5428	11,969	5150	11,356	4896	10,796
80% of Tip (firm and level)	7237	15,958	6867	15,142	6528	14,394

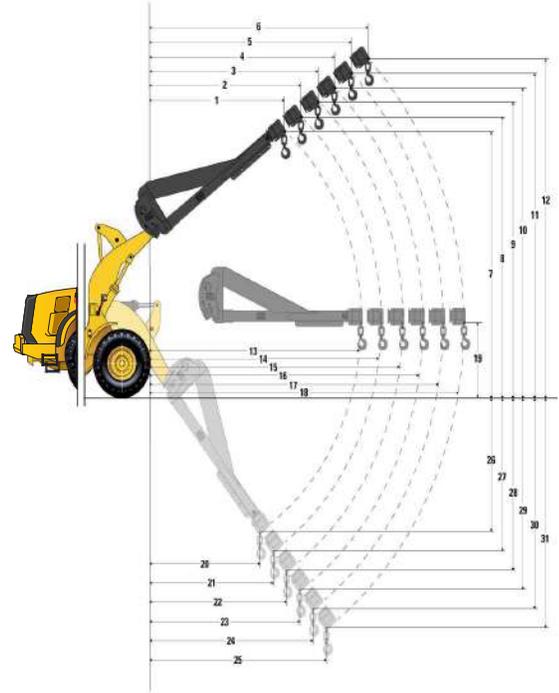
\*ISO 14397-1:2007

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

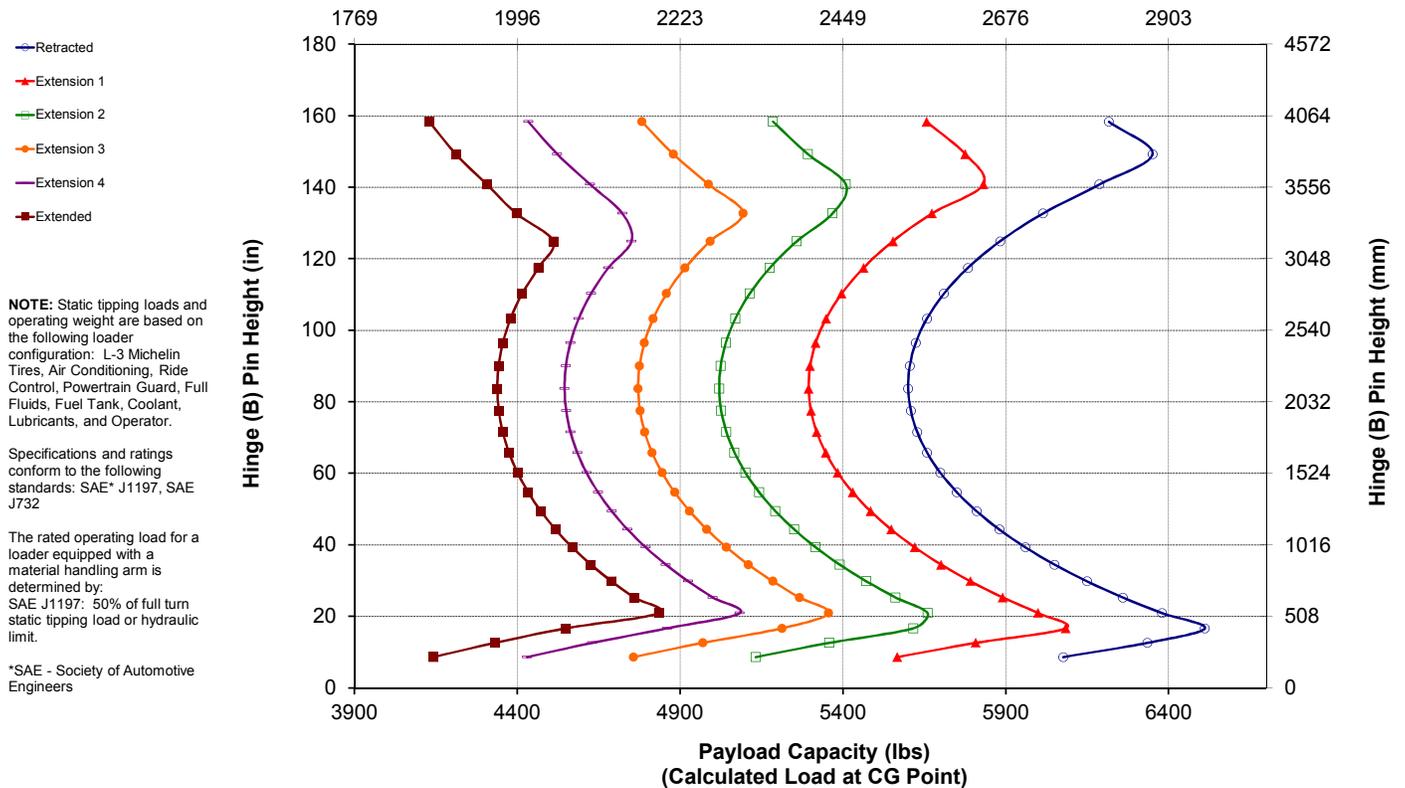
# 950M Wheel Loader Specifications

## 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



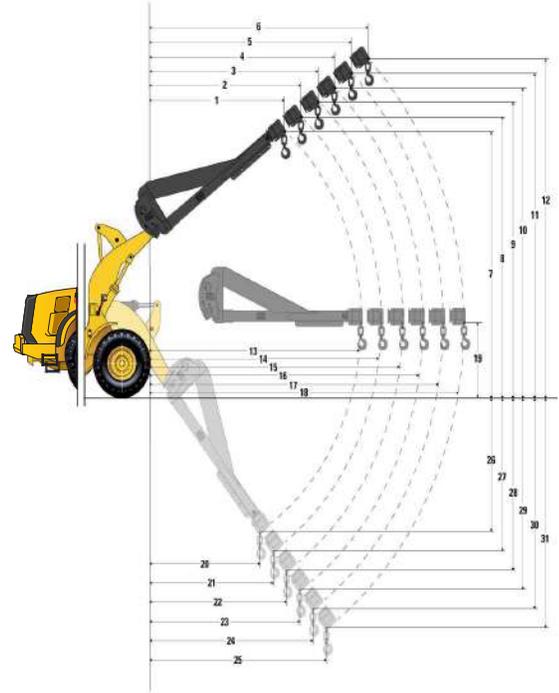
**Payload Capacity (kg)  
(Calculated Load at CG Point)**



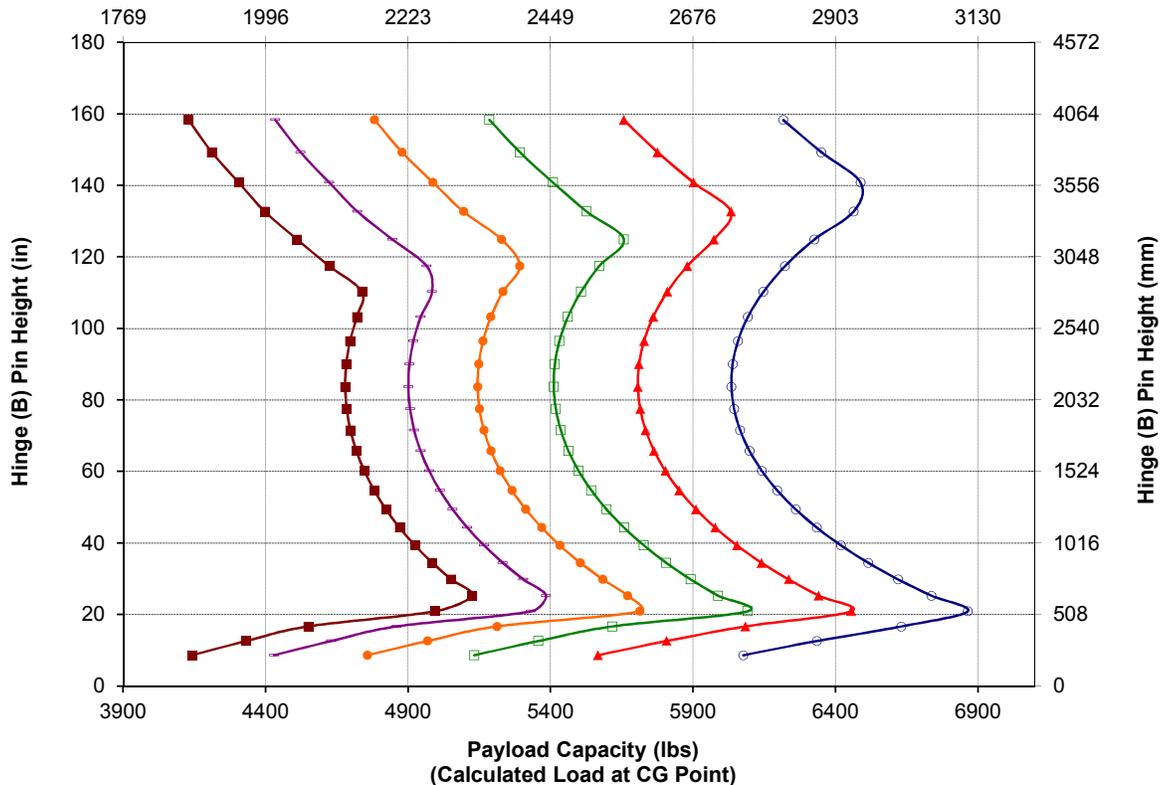
# 950M Wheel Loader Specifications

## 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)**



**NOTE:** Static tipping loads and operating weight are based on the following loader configuration: L-3 Michelin Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, SAE J732

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

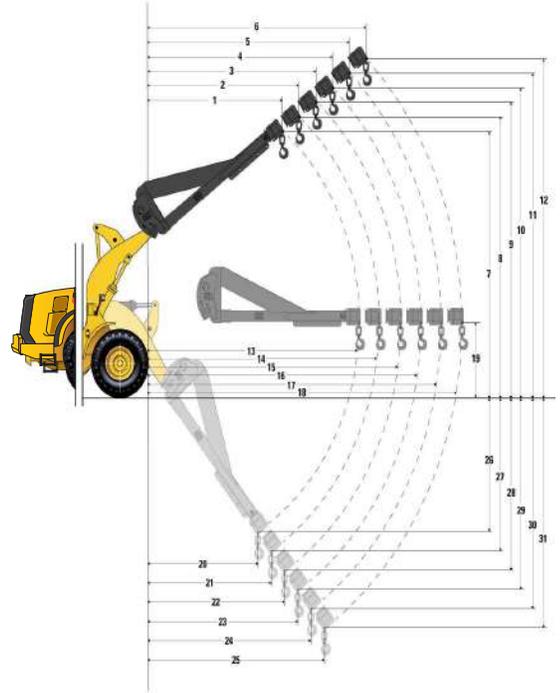
\*SAE - Society of Automotive Engineers

# 950M Wheel Loader Specifications

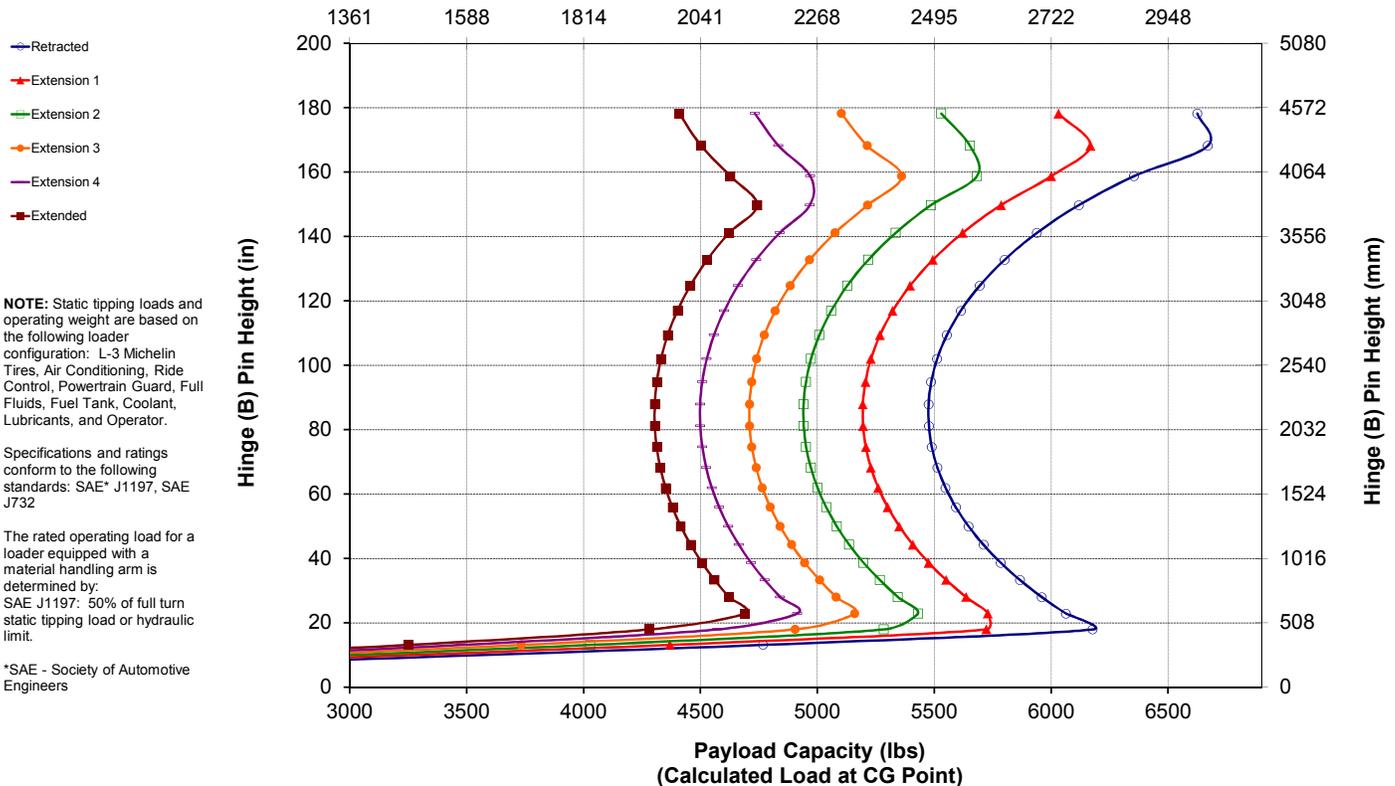
## Material Handling Arm – High Lift Fusion

### 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 Standard and Optional Equipment

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>POWER TRAIN</b>			<b>OPERATOR ENVIRONMENT</b>		
Axles, ecology drains	✓		Air conditioner, heater, and defroster (auto temp and fan)	✓	
Axles, 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, extreme temperature seals, 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 (Tier 4 Final/Stage V models)	✓		Cab, pressurized and sound suppressed (ROPS/FOPS)	✓	
Economy mode (selectable)	✓		Cab tie-off	✓	
Engine, Cat C7.1 – Tier 3/Stage IIIA equivalent or Tier 4 Final/Stage V	✓		Coat hook (2)	✓	
Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand	✓		Cover, HVAC metallic		✓
Fan, VPF (variable pitch fan), automatic and manual control		✓	Door, remote opening system		✓
Fuel priming pump (electric)	✓		EH controls, SAL (single axis lever) lift and tilt function	✓	
Fuel/water separator	✓		EH controls, joystick lift and tilt – additional integrated roller switches for 3 <sup>rd</sup> and 4 <sup>th</sup> functions		✓
Parking brake, disc and caliper	✓		EH controls, SAL 3 <sup>rd</sup> function – additional roller switch for 4 <sup>th</sup> function		✓
Precleaner, engine air intake	✓		EH parking brake	✓	
Radiator, high debris, wide fin spacing		✓	Filter, carbon fresh air		✓
Switch, transmission neutralizer lockout	✓		Full time rear vision display Work Area Vision System (WAVS)		✓
Torque converter, locking clutch with free wheel stator	✓		Horn, electric	✓	
Transmission, automatic countershaft power shift (5F/3R)	✓		Light, two dome (cab)	✓	
<b>CAT TECHNOLOGY</b>			Mirrors, heated rearview external with integrated spot mirrors		✓
Detect technologies:			Mirrors, rearview external with integrated spot mirrors	✓	
Rear vision camera	✓		Multi-function 18 cm (7 in) color LCD touchscreen 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/USB/MP3 Bluetooth		✓
Payload technologies: Cat Production Measurement 2.0 (Cat PM), Printer, Cat Production Measurement, Aggregate Autodig		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth		✓
Machine security system		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth with Satellite Sirius and XM		✓
			Radio, CB ready		✓
			Radio ready (entertainment) includes antenna, speakers and converter (12V, 10-amp)	✓	
			Receptacles (2), 12V	✓	

(continued on next page)

# 950M Wheel Loader Standard and Optional Equipment

## Standard and Optional Equipment (continued)

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

	Standard	Optional		Standard	Optional
<b>OPERATOR ENVIRONMENT (continued)</b>			<b>ELECTRICAL AND LIGHTING (continued)</b>		
Roof, metallic		✓	Main disconnect switch	✓	
Seat, Cat Comfort (cloth) air suspension	✓		Receptacle start (cables not included)	✓	
Seat belt, 51 mm (2 in) retractable, with indicator	✓		Reversing strobes		✓
Seat belt, 76 mm (3 in) retractable, with indicator		✓	Starter, electric, heavy duty	✓	
Seat, heated air suspension		✓	Starting and charging system (24V)	✓	
Steering, EH joystick, speed sensing with force feedback		✓	Warning amber strobe beacon		✓
Steering, secondary		✓	<b>FLUIDS</b>		
Steering, steering wheel	✓		Premixed extended life coolant with freeze protection to -34°C (-29°F)	✓	
Sun visor, front	✓		Premixed extended life coolant with freeze protection to -50°C (-58°F)		✓
Sun visor, rear		✓	<b>HYDRAULICS</b>		
Viscous mounts	✓		Couplings, Cat O-ring face seal	✓	
Wet-arm wipers/washers front and rear, intermittent front wiper	✓		Hoses, Cat XT™	✓	
Windows, rubber mounted		✓	Hydraulic oil cooler (swing out)	✓	
Window, sliding (left and right sides)	✓		Hydraulic system, load sensing	✓	
Windows, with front guard		✓	Oil sampling valves	✓	
Windows, with full guards front, rear and sides		✓	3 <sup>rd</sup> function with Ride Control – standard linkage, high lift linkage, forestry linkage		✓
<b>ELECTRICAL AND LIGHTING</b>			4 <sup>th</sup> function with Ride Control – standard linkage, high lift linkage, forestry linkage		✓
Alarm, back-up	✓		Remote diagnostic pressure taps	✓	
Alternator, 145-amp brushed	✓		Ride control, 2V	✓	
Auxiliary halogen cab-mounted work lights (four additional) or		✓	Steering, load sensing	✓	
Auxiliary front HI LED (two additional) and two additional auxiliary rear LED cab mounted work lights with two LED work lights in the radiator grill and LED front turn signals. Also includes replacement of the standard four halogen cab-mounted work lights with four LED work lights (the standard offering and only roading light available is the halogen roading light)		✓	<b>LINKAGE</b>		
Batteries (2), maintenance free 1,400 CCA	✓		Autolube		✓
External seat belt indicator light		✓	Forestry		✓
Ignition key; start/stop switch	✓		High lift		✓
Lighting system: four halogen work lights (cab mounted), two LED stop, turn, tail lights, two halogen roading lights (with signals), two halogen rear vision lights (hood mounted)	✓		Kickout, lift and tilt, automatic (adjustable in cab)	✓	
			Quick coupler ready		✓
			Z-bar, cast crosstube/tilt lever	✓	
			<b>STARTERS, BATTERIES, AND ALTERNATORS</b>		
			Cold start – 120V		✓
			Cold start – 240V		✓
			<b>WORK TOOLS</b>		
			Forks, logging		✓
			Forks, pallet		✓
			Fusion quick coupler		✓
			Material handling arms		✓
			Performance Series buckets		✓
			Snow products		✓
			VCE quick coupler		✓

(continued on next page)

# 950M Wheel Loader Standard and Optional Equipment

## Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
<b>COMPUTERIZED MONITORING SYSTEM</b>			<b>OTHER STANDARD AND OPTIONAL EQUIPMENT</b>		
With following gauges:	✓		Auto idle shutdown	✓	
Speedometer/tachometer			Cat Autolube System		✓
Digital gear range indicator			Cold weather package: transmission filter bypass, fan pump bypass, jacket water or engine block heater, ether aid ready		✓
Diesel Exhaust Fluid (DEF) level (Tier 4 Final/Stage V models)			Ecology drains for engine, transmission, and hydraulics	✓	
Temperature: engine coolant, hydraulic oil, transmission oil			Fenders, front with mud-flap/rear with extension	✓	
Fuel level			Fenders, roading		✓
With following warning indicators:	✓		Filters: fuel, engine air, engine oil, hydraulic oil, transmission	✓	
Regeneration			Fuel cooler	✓	
Temperature: axle oil, engine intake manifold			Grease zerks	✓	
Pressure: engine oil, fuel pressure hi/low, primary steering oil, service brake oil			Grill, airborne debris	✓	
Battery voltage hi/low			Guard, power train		✓
Engine air filter restriction			Hitch, drawbar with pin	✓	
Hydraulic oil filter restriction			Hood, non-metallic power tilting	✓	
Hydraulic oil low			Platform, window washing		✓
Parking brake			Precleaner, turbine		✓
DEF low level (Tier 4 Final/Stage V models)			Precleaner, trash		✓
Transmission filter bypass			Precleaner rain cap	✓	
			Service centers (electrical and hydraulic)	✓	
			Sight gauges: engine coolant, hydraulic oil, and transmission oil level	✓	
			Toolbox	✓	
			Vandalism protection caplocks	✓	
			<b>OTHER CONFIGURATIONS</b>		
			Industrial and waste handler		✓
			Corrosion resistance		✓
			Forestry		✓
			Steel mill (Tier 3 equivalent only)		✓



# 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.

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

Engine Model	Cat C7.1	
Maximum Power (2,000 rpm)		
SAE J1995	196 kW	263 hp
ISO 14396	195 kW	261 hp
ISO 14396 (metric)	265 hp	
Maximum Net Power (2,000 rpm)		
SAE J1349	185 kW	248 hp
ISO 9249	185 kW	248 hp
ISO 9249 (metric)	252 hp	
Peak Gross Torque (1,400 rpm)		
SAE J1995	1053 N·m	777 lbf-ft
Maximum Net Torque (1,400 rpm)		
SAE J1349	984 N·m	726 lbf-ft
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in <sup>3</sup>

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

- The power ratings apply at the stated speed when tested under the reference conditions for the specified standards.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and aftertreatment.
- The gross power advertised is with the fan at maximum speed.

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

Engine Model	Cat C7.1	
Maximum Power (2,100 rpm)		
SAE J1995	187 kW	250 hp
ISO 14396	186 kW	249 hp
ISO 14396 (metric)	253 hp	
Maximum Net Power (2,100 rpm)		
SAE J1349	171 kW	230 hp
ISO 9249	171 kW	230 hp
ISO 9249 (metric)	232 hp	
Peak Gross Torque (1,300 rpm)		
SAE J1995	1235 N·m	911 lbf-ft
Maximum Net Torque (1,300 rpm)		
SAE J1349	1163 N·m	858 lbf-ft
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in <sup>3</sup>

<sup>2</sup> Meets either U.S. EPA Tier 4 Final or EU Stage V, Japan 2014, and Korea Tier 4 Final emission standards depending on region.

- The power ratings apply at the stated speed when tested under the reference conditions for the specified standards.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and aftertreatment.
- The gross power advertised is with the fan at maximum speed.

# 950M Industrial & Waste Specifications

## Transmission

Forward 1	6.9 km/h	4.3 mph
Forward 2	12.0 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	12.0 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 (31 in) 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 <sup>rd</sup> /4 <sup>th</sup> Function Maximum Flow	240 L/min	63 gal/min
Optional 3 <sup>rd</sup> /4 <sup>th</sup> Function Maximum Pressure	21 780 kPa	3,159 psi
Hydraulic Cycle Time with Rated Payload		
Raise from Carry Position	5.1 Sec.	
Dump, at Maximum Raise	1.5 Sec.	
Lower, Empty, Float Down	2.3 Sec.	
Total	8.9 Sec.	

## Brakes

Brakes	Brakes meet ISO 3450:2011 standards
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## Axles

Front	Fixed
Rear	Oscillating $\pm 13$ degrees
Maximum Single-Wheel Rise and Fall	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)	
Tier 3/Stage IIIA Equivalent	72 dB(A)*
Tier 4 Final/Stage V	70 dB(A)*
Exterior Sound Power Level (ISO 6395:2008)	107 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 maximum value.

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

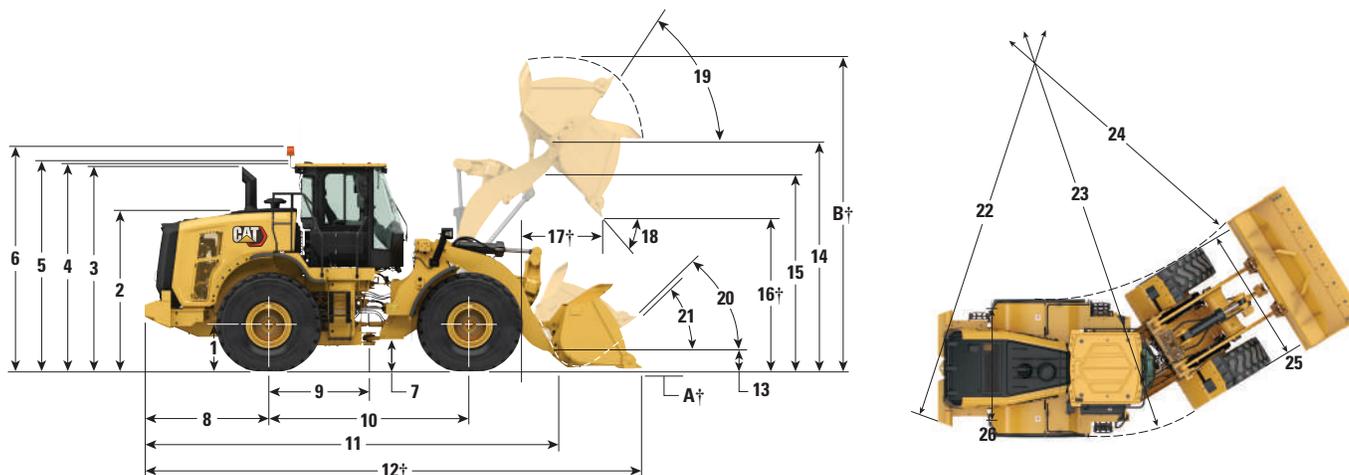
## Service Refill Capacities

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

\*Must meet the requirements outlined in ISO 22241-1 for Tier 4 Final/Stage V models.

## 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 m<sup>3</sup> (8.0 yd<sup>3</sup>) 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.

# 950M Industrial & Waste Specifications

## Tire Options for Scrap and Waste

Tire Brand	Brawler HPS	Brawler HPS	Michelin	Bridgestone	Yokohama	Titan
Tire Size	23.5-25	23.5-25	23.5R25	23.5R25	23.5R25	23.5R25
Tread Type	—	—	L-3	L-3	L-3	L-3
Tread Pattern	Solidflex Smooth	Solidflex Traction	XHA2	VJT	RB31	MXL
Width over Tires – Maximum (empty)*	2753 mm 9'0"	2753 mm 9'0"	2814 mm 9'3"	2798 mm 9'2"	2581 mm 8'6"	2812 mm 9'3"
Width over Tires – Maximum (loaded)*	2760 mm 9'1"	2760 mm 9'1"	2822 mm 9'3"	2831 mm 9'3"	2634 mm 8'8"	2833 mm 9'4"
Change in Vertical Dimensions (average of front and rear)	0 mm 0"	0 mm 0"	-50 mm -2"	-56 mm -2"	-54 mm -2"	-35 mm -1"
Change in Horizontal Reach	0 mm 0"	0 mm 0"	9 mm 0"	15 mm 1"	15 mm 1"	5 mm 0"
Change in Clearance Circle (radius) to Outside of Tires	0 mm 0"	0 mm 0"	62.4 mm 2"	71.2 mm 3"	-125.5 mm -5"	73.5 mm 3"
Change in Clearance Circle (radius) to Inside of Tires	0 mm 0"	0 mm 0"	-62 mm -2"	-71 mm -3"	126 mm 5"	-74 mm -3"
Change in Operating Weight (without Ballast)	0 kg 0 lb	-145 -320 lb	-3376 kg -7,443 lb	-3208 kg -7,072 lb	-3105 kg -6,845 lb	-3365 kg -7,419 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	-2071 kg -4,566 lb	-2244 kg -4,947 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	-1806 kg -3,982 lb	-1957 kg -4,314 lb

\*Width over bulge and includes tire growth.

## Operating Specifications – Waste Buckets



Waste Load & Carry Bucket



Waste Dozing Bucket



Waste Tamp & Clamp Bucket



Grapple Bucket

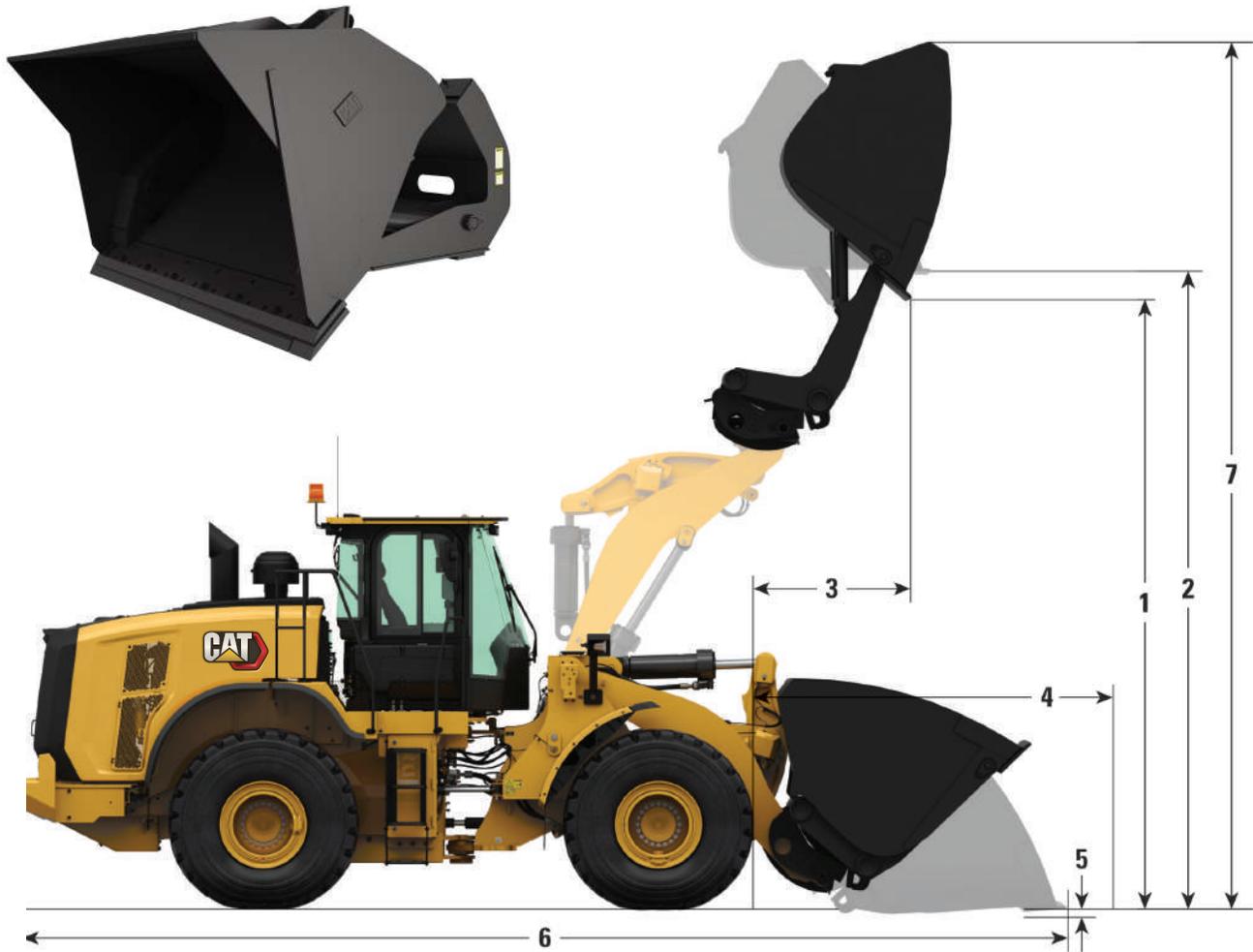
Bucket Type		Pin-On Load & Carry	Pin-On Dozing	Pin-On Tamp & Clamp	Pin-On Grapple	Fusion/ Dozing	Fusion/ Grapple	
Edge Type		Steel Bolt-On Cutting Edges	High Lift Delta*					
Capacity – Rated	m <sup>3</sup>	6.10	5.20	4.40	4.60	5.20	4.60	—
	yd <sup>3</sup>	8.00	6.75	5.75	6.00	6.75	6.00	—
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	6.70	5.70	4.80	5.10	5.70	5.10	—
	yd <sup>3</sup>	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"	—
<b>16</b> † 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"	1'7"
<b>17</b> † 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"	1'2"
<b>12</b> † Overall Length	mm	8658	8183	8965	8641	8282	8654	626
	ft/in	28'5"	26'11"	29'5"	28'5"	27'3"	28'5"	2'0"
<b>A</b> † 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"	1'7"
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 2.3 m (7'6") 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
- Four-piece steel cutting edge
- Requires 3rd valve hydraulics

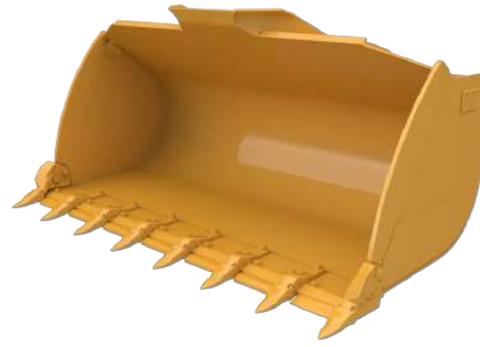
## Waste High Dump Bucket

Package	Standard		
Bucket Type	Fusion		
Edge Type	Steel Bolt-On Cutting Edges		
Capacity – Rated	m <sup>3</sup>	4.60	6.10
	yd <sup>3</sup>	6.00	8.00
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	5.10	6.70
	yd <sup>3</sup>	6.75	8.75
Width	mm	2910	2910
	ft/in	9'7"	9'7"
<b>1</b> Dump Clearance at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	4677	4622
	ft/in	15'4"	15'1"
<b>2</b> Clearance at Max Lift, Max Rack, Bucket Rolled out to Level	mm	5000	5000
	ft/in	16'4"	16'4"
<b>3</b> Reach at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	1809	1834
	ft/in	5'11"	6'0"
<b>4</b> Reach at Level Lift Arm and Bucket Level	mm	3235	3393
	ft/in	10'7"	10'9"
<b>5</b> Digging Depth	mm	104	104
	ft/in	4.1"	4.1"
<b>6</b> Overall Length	mm	8931	8992
	ft/in	29'4"	29'7"
<b>7</b> Overall Height with Bucket at Max Height and Max Rack	mm	6596	9879
	ft/in	21'7"	22'6"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	6926	6946
	ft/in	22'9"	22'10"
Static Tipping Load, Straight (Rigid Tire)	kg	10 956	11 025
	lb	24,147	24,300
Static Tipping Load, Articulated (Rigid Tire)	kg	9364	9408
	lb	20,638	20,736
Breakout Force	kN	118	114
	lbf	26,709	25,736
Operating Weight*	kg	21 217	21 333
	lb	46,761	47,017

\*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).

# 950M Industrial & Waste Specifications

## 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 <sup>3</sup>	3.1	3.4	3.6	3.8	3.1	3.4	3.6	3.8
	yd <sup>3</sup>	4.00	4.50	4.75	5.00	4.00	4.50	4.75	5.00
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	3.4	3.7	4.0	4.2	3.4	3.7	4.0	4.2
	yd <sup>3</sup>	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"
<b>16</b> 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"
<b>17</b> 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"
<b>12</b> 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"
<b>A</b> 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.

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>POWER TRAIN</b>			<b>OPERATOR ENVIRONMENT</b>		
Axles, ecology drains	✓		Air conditioner, heater, and defroster (auto temp and fan)	✓	
Axles, 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, extreme temperature seals, 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 (Tier 4 Final/Stage V models)	✓		Cab, pressurized and sound suppressed (ROPS/FOPS)	✓	
Economy mode (selectable)	✓		Cab tie-off	✓	
Engine, Cat C7.1 – Tier 3/Stage IIIA equivalent or Tier 4 Final/Stage V	✓		Coat hook (2)	✓	
Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand	✓		Cover, HVAC metallic		✓
Fan, VPF (variable pitch fan), automatic and manual control		✓	Door, remote opening system		✓
Fuel priming pump (electric)	✓		EH controls, SAL (single axis lever) lift and tilt function	✓	
Fuel/water separator	✓		EH controls, joystick lift and tilt – additional integrated roller switches for 3 <sup>rd</sup> and 4 <sup>th</sup> functions		✓
Parking brake, disc and caliper	✓		EH controls, SAL 3 <sup>rd</sup> function – additional roller switch for 4 <sup>th</sup> function		✓
Precleaner, engine air intake	✓		EH parking brake	✓	
Radiator, high debris, wide fin spacing		✓	Filter, carbon fresh air		✓
Switch, transmission neutralizer lockout	✓		Full time rear vision display Work Area Vision System (WAVS)		✓
Torque converter, locking clutch with free wheel stator	✓		Horn, electric	✓	
Transmission, automatic countershaft power shift (5F/3R)	✓		Light, two dome (cab)	✓	
<b>CAT TECHNOLOGY</b>			Mirrors, heated rearview external with integrated spot mirrors		✓
Detect technologies:			Mirrors, rearview external with integrated spot mirrors	✓	
Rear vision camera	✓		Multi-function 18 cm (7 in) color LCD touchscreen 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/USB/MP3 Bluetooth		✓
Payload technologies: Cat Production Measurement 2.0 (Cat PM), Printer, Cat Production Measurement, Aggregate Autodig		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth		✓
Machine security system		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth with Satellite Sirius and XM		✓
			Radio, CB ready		✓
			Radio ready (entertainment) includes antenna, speakers and converter (12V, 10-amp)	✓	
			Receptacles (2), 12V	✓	

(continued on next page)

# 950M Industrial & Waste Standard and Optional Equipment

## Standard and Optional Equipment (continued)

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

	Standard	Optional		Standard	Optional
<b>OPERATOR ENVIRONMENT (continued)</b>			<b>ELECTRICAL AND LIGHTING (continued)</b>		
Roof, metallic		✓	Main disconnect switch	✓	
Seat, Cat Comfort (cloth) air suspension	✓		Receptacle start (cables not included)	✓	
Seat belt, 51 mm (2 in) retractable, with indicator	✓		Reversing strobes		✓
Seat belt, 76 mm (3 in) retractable, with indicator		✓	Starter, electric, heavy duty	✓	
Seat, heated air suspension		✓	Starting and charging system (24V)	✓	
Steering, EH joystick, speed sensing with force feedback		✓	Warning amber strobe beacon		✓
Steering, secondary		✓	<b>FLUIDS</b>		
Steering, steering wheel	✓		Premixed extended life coolant with freeze protection to -34°C (-29°F)	✓	
Sun visor, front	✓		Premixed extended life coolant with freeze protection to -50°C (-58°F)		✓
Sun visor, rear		✓	<b>HYDRAULICS</b>		
Viscous mounts	✓		Couplings, Cat O-ring face seal	✓	
Wet-arm wipers/washers front and rear, intermittent front wiper	✓		Hoses, Cat XT	✓	
Windows, rubber mounted		✓	Hydraulic oil cooler (swing out)	✓	
Window, sliding (left and right sides)	✓		Hydraulic system, load sensing	✓	
Windows, with front guard		✓	Oil sampling valves	✓	
Windows, with full guards front, rear and sides		✓	3 <sup>rd</sup> function with Ride Control – standard linkage, high lift linkage, forestry linkage		✓
<b>ELECTRICAL AND LIGHTING</b>			4 <sup>th</sup> function with Ride Control – standard linkage, high lift linkage, forestry linkage		✓
Alarm, back-up	✓		Remote diagnostic pressure taps	✓	
Alternator, 145-amp brushed	✓		Ride control, 2V	✓	
Auxiliary halogen cab-mounted work lights (four additional) or		✓	Steering, load sensing	✓	
Auxiliary front HI LED (two additional) and two additional auxiliary rear LED cab mounted work lights with two LED work lights in the radiator grill and LED front turn signals. Also includes replacement of the standard four halogen cab-mounted work lights with four LED work lights (the standard offering and only roading light available is the halogen roading light)		✓	<b>LINKAGE</b>		
Batteries (2), maintenance free 1,400 CCA	✓		Autolube		✓
External seat belt indicator light		✓	Forestry		✓
Ignition key; start/stop switch	✓		High lift		✓
Lighting system: four halogen work lights (cab mounted), two LED stop, turn, tail lights, two halogen roading lights (with signals), two halogen rear vision lights (hood mounted)	✓		Kickout, lift and tilt, automatic (adjustable in cab)	✓	
			Quick coupler ready		✓
			Z-bar, cast crosstube/tilt lever	✓	
			<b>STARTERS, BATTERIES, AND ALTERNATORS</b>		
			Cold start – 120V		✓
			Cold start – 240V		✓
			<b>WORK TOOLS</b>		
			Forks, logging		✓
			Forks, pallet		✓
			Fusion quick coupler		✓
			Material handling arms		✓
			Performance Series buckets		✓
			Snow products		✓
			VCE quick coupler		✓

(continued on next page)

## Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
<b>COMPUTERIZED MONITORING SYSTEM</b>			<b>OTHER STANDARD AND OPTIONAL EQUIPMENT</b>		
With following gauges:	✓		Auto idle shutdown	✓	
Speedometer/tachometer			Cat Autolube System		✓
Digital gear range indicator			Cold weather package: transmission filter bypass, fan pump bypass, jacket water or engine block heater, ether aid ready		✓
Diesel Exhaust Fluid (DEF) level (Tier 4 Final/Stage V models)			Ecology drains for engine, transmission, and hydraulics	✓	
Temperature: engine coolant, hydraulic oil, transmission oil			Fenders, front with mud-flap/rear with extension	✓	
Fuel level			Fenders, roading		✓
With following warning indicators:	✓		Filters: fuel, engine air, engine oil, hydraulic oil, transmission	✓	
Regeneration			Fuel cooler	✓	
Temperature: axle oil, engine intake manifold			Grease zerks	✓	
Pressure: engine oil, fuel pressure hi/low, primary steering oil, service brake oil			Grill, airborne debris	✓	
Battery voltage hi/low			Guard, power train		✓
Engine air filter restriction			Hitch, drawbar with pin	✓	
Hydraulic oil filter restriction			Hood, non-metallic power tilting	✓	
Hydraulic oil low			Platform, window washing		✓
Parking brake			Precleaner, turbine		✓
DEF low level (Tier 4 Final/Stage V models)			Precleaner, trash		✓
Transmission filter bypass			Precleaner rain cap	✓	
			Service centers (electrical and hydraulic)	✓	
			Sight gauges: engine coolant, hydraulic oil, and transmission oil level	✓	
			Toolbox	✓	
			Vandalism protection caplocks	✓	
			<b>OTHER CONFIGURATIONS</b>		
			Industrial and waste handler		✓
			Corrosion resistance		✓
			Forestry		✓
			Steel mill (Tier 3 equivalent only)		✓

# 950M Industrial & Waste Standard and Optional Equipment

## Standard and Optional Equipment (continued)

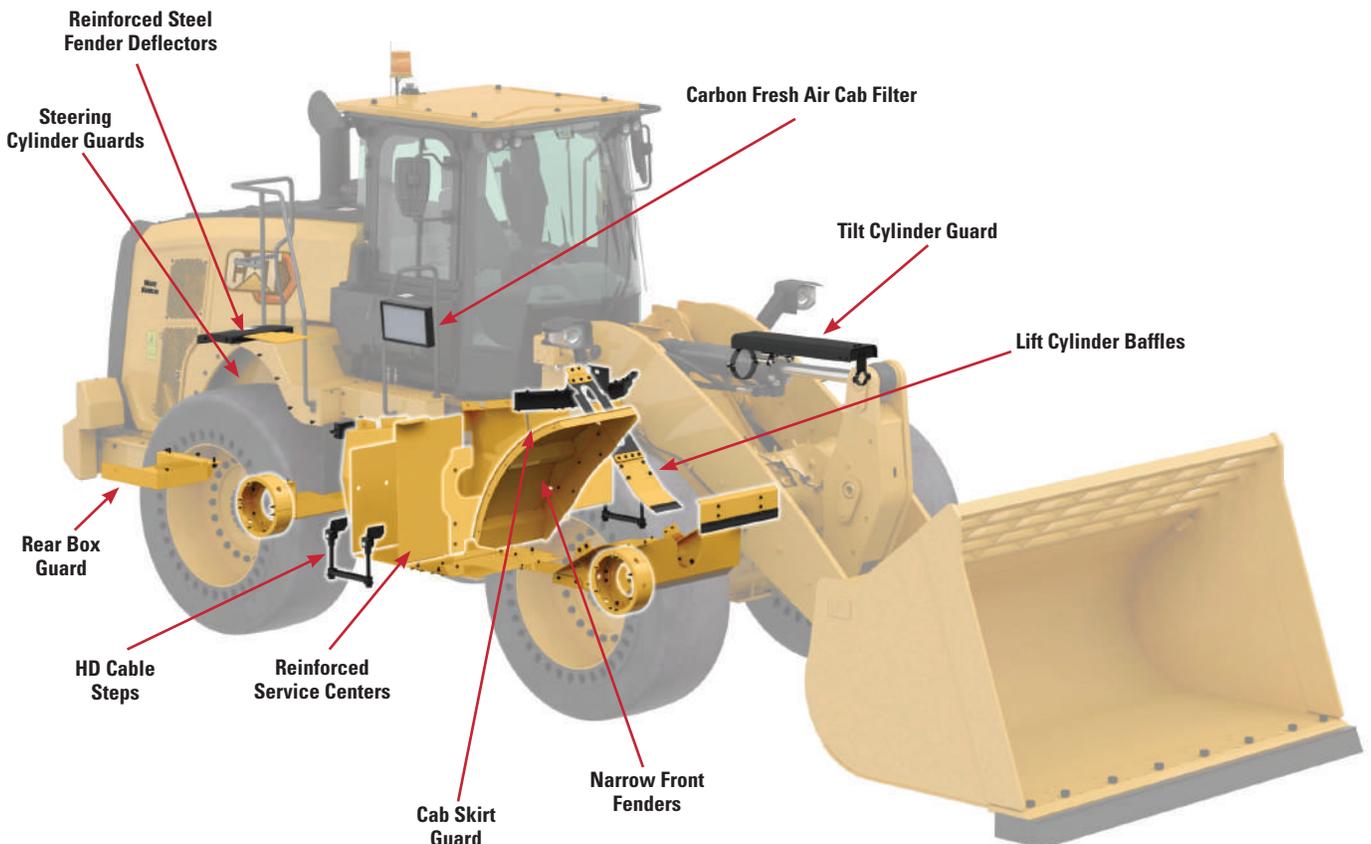
### Standard

- 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

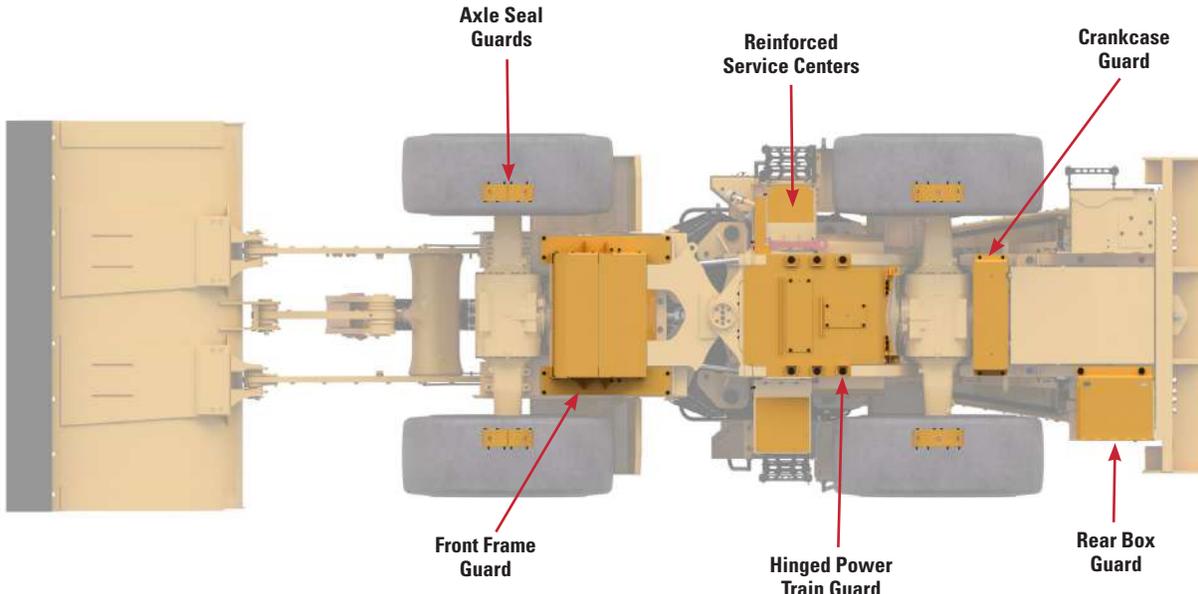
- High Lift linkage (additional 11" dump clearance)
- Auto locking differential front axle
- 3rd function hydraulics
- Premium LED lights
- Rubber mounted glass
- Windshield guard
- Joystick steering
- Deluxe seat with dynamic end dampening
- Joystick loader controls
- Powered and filtered cab precleaner
- 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

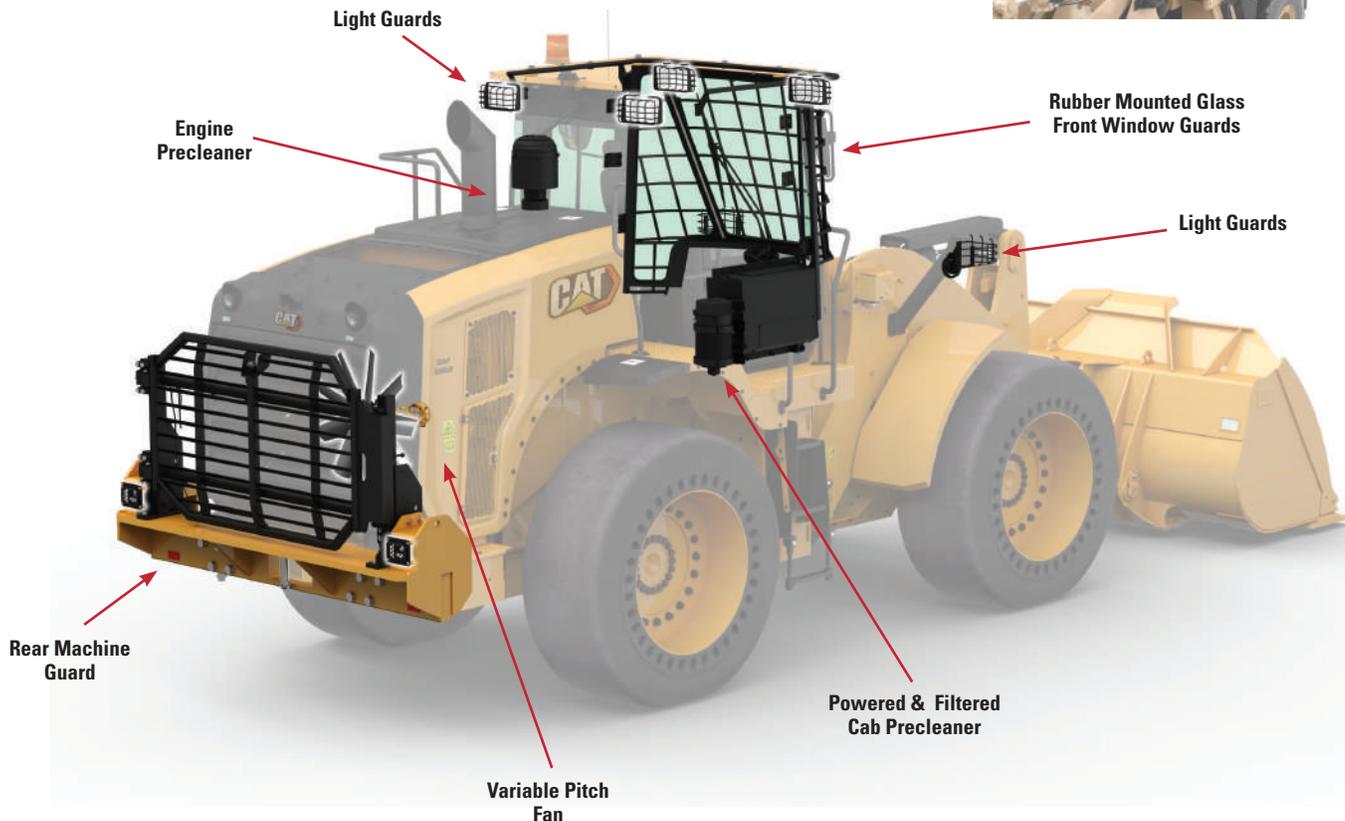
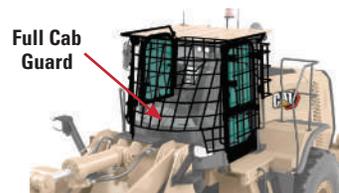


# 950M Industrial & Waste Standard and Optional Equipment

## 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.

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

Engine Model	Cat C7.1	
Maximum Power (2,000 rpm)		
SAE J1995	196 kW	263 hp
ISO 14396	195 kW	261 hp
ISO 14396 (metric)		265 hp
Maximum Net Power (2,000 rpm)		
SAE J1349	185 kW	248 hp
ISO 9249	185 kW	248 hp
ISO 9249 (metric)		252 hp
Peak Gross Torque (1,400 rpm)		
SAE J1995	1053 N·m	777 lbf-ft
Maximum Net Torque (1,400 rpm)		
SAE J1349	984 N·m	726 lbf-ft
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in <sup>3</sup>

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

- The power ratings apply at the stated speed when tested under the reference conditions for the specified standards.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and aftertreatment.
- The gross power advertised is with the fan at maximum speed.

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

Engine Model	Cat C7.1	
Maximum Power (2,100 rpm)		
SAE J1995	187 kW	250 hp
ISO 14396	186 kW	249 hp
ISO 14396 (metric)		253 hp
Maximum Net Power (2,100 rpm)		
SAE J1349	171 kW	230 hp
ISO 9249	171 kW	230 hp
ISO 9249 (metric)		232 hp
Peak Gross Torque (1,300 rpm)		
SAE J1995	1235 N·m	911 lbf-ft
Maximum Net Torque (1,300 rpm)		
SAE J1349	1163 N·m	858 lbf-ft
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in <sup>3</sup>

<sup>2</sup> Meets either U.S. EPA Tier 4 Final or EU Stage V, Japan 2014, and Korea Tier 4 Final emission standards depending on region.

- The power ratings apply at the stated speed when tested under the reference conditions for the specified standards.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and aftertreatment.
- The gross power advertised is with the fan at maximum speed.

# 950M Forestry Specifications

## Transmission

Forward 1	6.9 km/h	4.3 mph
Forward 2	12.0 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	12.0 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 (31 in) 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 <sup>rd</sup> /4 <sup>th</sup> Function Maximum Flow	240 L/min	63 gal/min
Optional 3 <sup>rd</sup> /4 <sup>th</sup> Function Maximum Pressure	21 780 kPa	3,159 psi
Hydraulic Cycle Time with Rated Payload		
Raise from Carry Position	5.1 Sec.	
Dump, at Maximum Raise	1.5 Sec.	
Lower, Empty, Float Down	2.3 Sec.	
Total	8.9 Sec.	

## Brakes

Brakes	Brakes meet ISO 3450:2011 standards
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## Axles

Front	Fixed
Rear	Oscillating $\pm 13$ degrees
Maximum Single-Wheel Rise and Fall	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)	
Tier 3/Stage IIIA Equivalent	72 dB(A)*
Tier 4 Final/Stage V	70 dB(A)*
Exterior Sound Power Level (ISO 6395:2008)	107 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 maximum value.

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

## 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

\*Must meet the requirements outlined in ISO 22241-1 for Tier 4 Final/Stage V models.

## Tire Options

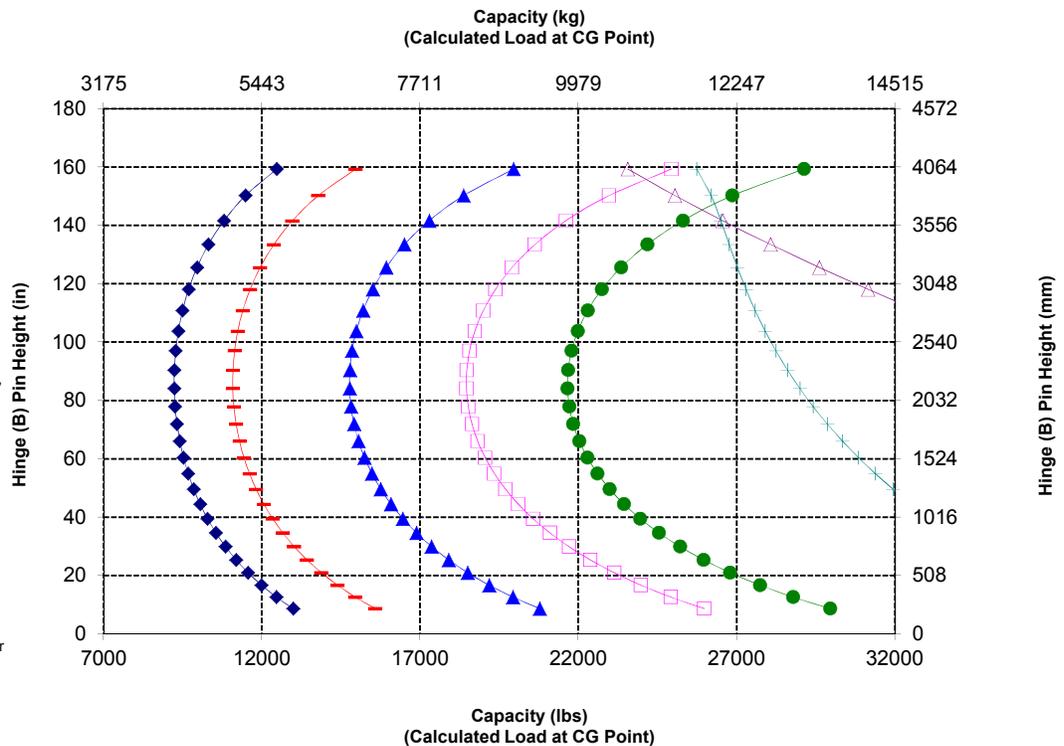
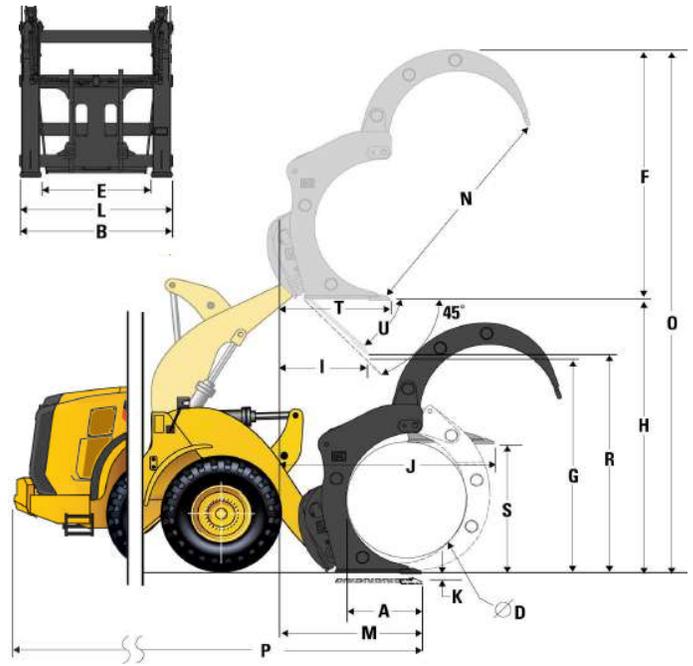
Tire Brand	Michelin	Bridgestone	Goodyear	Bridgestone	Bridgestone	Michelin	Bridgestone
Tire Size	23.5R25	23.5R25	23.5R25	23.5-25	23.5R25	750/65R25	23.5-25
Tread Type	L-3	L-3	L-3	L-3	L-3	L-3	L-3
Tread Pattern	XHA2	VMT	RT-3B	SRG LD	VJT	XLD	VL2
Width over Tires – Maximum (empty)*	2814 mm 9'2"	2805 mm 9'2"	2835 mm 9'4"	2768 mm 9'1"	2798 mm 9'2"	2948 mm 9'8"	2769 mm 9'1"
Width over Tires – Maximum (loaded)*	2822 mm 9'3"	2834 mm 9'4"	2846 mm 9'4"	2795 mm 9'2"	2831 mm 9'3"	2965 mm 9'9"	2782 mm 9'2"
Change in Vertical Dimensions (average of front and rear)	0 mm 0"	-3 mm -0.1"	-1 mm 0"	1 mm 0"	-6 mm -0.2"	-6 mm -0.2"	14 mm 0.6"
Change in Horizontal Reach	0 mm 0"	6 mm 0.2"	3 mm 0.1"	-16 mm -0.6"	6 mm 0.2"	11 mm 0.4"	3 mm 0.1"
Change in Clearance Circle (radius) to Outside of Tires	0 mm 0"	12 mm 0.5"	24 mm 1"	-27 mm -1.1"	9 mm 0.4"	143 mm 5.6"	-40 mm -1.6"
Change in Clearance Circle (radius) to Inside of Tires	0 mm 0"	-12 mm -0.5"	-24 mm -1"	27 mm 1.1"	-9 mm -0.4"	-143 mm -5.6"	40 mm 1.6"
Change in Operating Weight (without Ballast)	0 kg 0 lb	188 kg 414 lb	127 kg 280 lb	-248 kg -547 lb	168 kg 370 lb	801 kg 1,766 lb	-100 kg -220 lb
Change in Static Tipping Load – Straight	0 kg 0 lb	125 kg 276 lb	85 kg 187 lb	-165 kg -364 lb	112 kg 247 lb	534 kg 1,177 lb	-67 kg -148 lb
Change in Static Tipping Load – Articulated	0 kg 0 lb	109 kg 240 lb	74 kg 163 lb	-144 kg -317 lb	98 kg 216 lb	466 kg 1,027 lb	-58 kg -128 lb

\*Width over bulge and includes tire growth.

# 950M Forestry Specifications

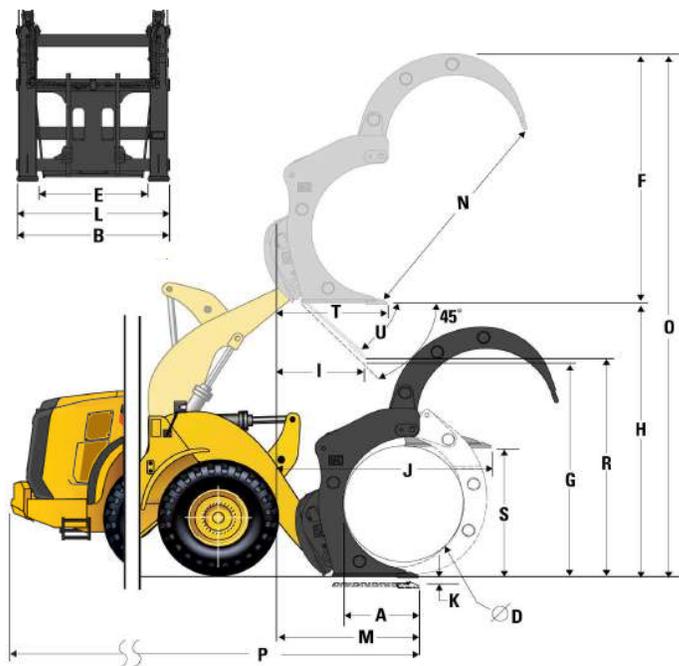
## Grapple Fork – 36" Pin-On

<b>A</b> Tine length	mm	917
	in	36.1
<b>B</b> Fork width	mm	1855
	in	73.0
End area	m <sup>2</sup>	2.5
	ft <sup>2</sup>	27
<b>C</b> Inside Height (only applies to double top clamp)	mm	0
	in	0
<b>D</b> Min. opening (only applies to millyard forks)	mm	N/A
	in	N/A
Operating Weight	kg	20156
	lbs	44437
<b>E</b> Distance inside of tine tips	mm	1314
	in	52
Static tipping load, articulated Fork level	kg	8376
	lbs	18466.0
Static tipping load, straight Fork level	kg	9825
	lbs	21660.9
<b>F</b> Max. height of fork (w/clamp open if applicable)	mm	3507
	in	138.1
<b>G</b> Clearance w/full lift, 45 deg dump (if max. dump <= 45)	mm	3087
	in	121.5
<b>H</b> Clearance @ full lift fork level	mm	3759
	in	148.0
<b>I</b> Reach w/full lift, 45 deg dump (if max. dump <= 45)	mm	1116
	in	43.9
<b>J</b> Reach w/lift arm horizontal and fork level	mm	2371
	in	93.3
<b>K</b> Digging depth	mm	-68
	in	-2.7
<b>L</b> Width over tines	mm	1850
	in	72.8
<b>M</b> Reach @ ground level	mm	1766
	in	70
<b>N</b> Max. opening across tine and clamp	mm	3123
	in	123.0
<b>O</b> Overall height of fork @ full lift and clamp open	mm	7266
	in	286.1
<b>P</b> Overall length Tip of tine to rear of machine	mm	7993
	in	314.7
<b>R</b> Clearance @ full lift and max. dump Discharge (if <= 45)	mm	3078
	in	121.2
<b>S</b> Clearance w/horizontal lift arms and fork level	mm	1798.0
	in	70.8
<b>T</b> Reach @ full lift and fork level	mm	1633.3
	in	64.3
<b>U</b> Max. discharge angle from horizontal	deg	46
	rad	0.8

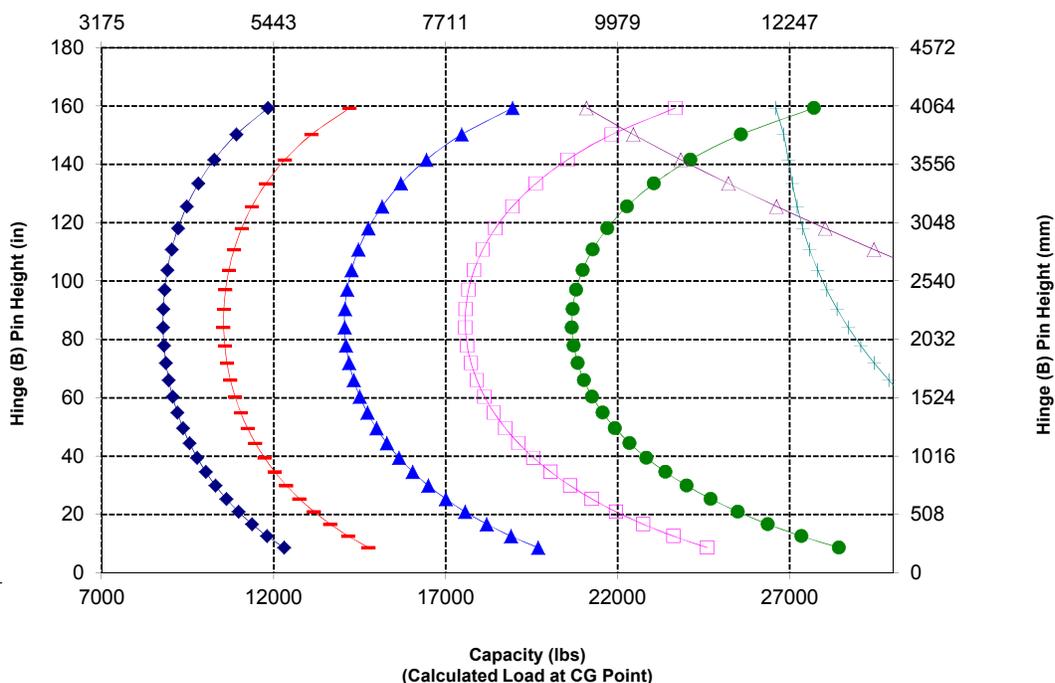


## Grapple Fork – 48" Pin-On

<b>A</b> Tine length	mm	1220
	in	48.0
<b>B</b> Fork width	mm	1855
	in	73.0
End area	m <sup>2</sup>	2.63
	ft <sup>2</sup>	28
<b>C</b> Inside Height (only applies to double top clamp)	mm	0
	in	0
<b>D</b> Min. opening (only applies to millyard forks)	mm	N/A
	in	N/A
Operating Weight	kg	20273
	lbs	44694
<b>E</b> Distance inside of tine tips	mm	1314
	in	52
Static tipping load, articulated Fork level	kg	7972
	lbs	17575.8
Static tipping load, straight Fork level	kg	9377
	lbs	20672.1
<b>F</b> Max. height of fork (w/clamp open if applicable)	mm	3352
	in	132.0
<b>G</b> Clearance w/full lift, 45 deg dump (if max. dump <= 45)	mm	2853
	in	112.3
<b>H</b> Clearance @ full lift fork level	mm	3759
	in	148.0
<b>I</b> Reach w/full lift, 45 deg dump (if max. dump <= 45)	mm	1350
	in	53.1
<b>J</b> Reach w/lift arm horizontal and fork level	mm	2701
	in	106.3
<b>K</b> Digging depth	mm	-68
	in	-2.7
<b>L</b> Width over tines	mm	1850
	in	72.8
<b>M</b> Reach @ ground level	mm	2096
	in	83
<b>N</b> Max. opening across tine and clamp	mm	3027
	in	119.2
<b>O</b> Overall height of fork @ full lift and clamp open	mm	7111
	in	280.0
<b>P</b> Overall length Tip of tine to rear of machine	mm	8323
	in	327.7
<b>R</b> Clearance @ full lift and max. dump Discharge (if <= 45)	mm	2841
	in	111.9
<b>S</b> Clearance w/horizontal lift arms and fork level	mm	1798.0
	in	70.8
<b>T</b> Reach @ full lift and fork level	mm	1963.4
	in	77.3
<b>U</b> Max. discharge angle from horizontal	deg	46
	rad	0.8



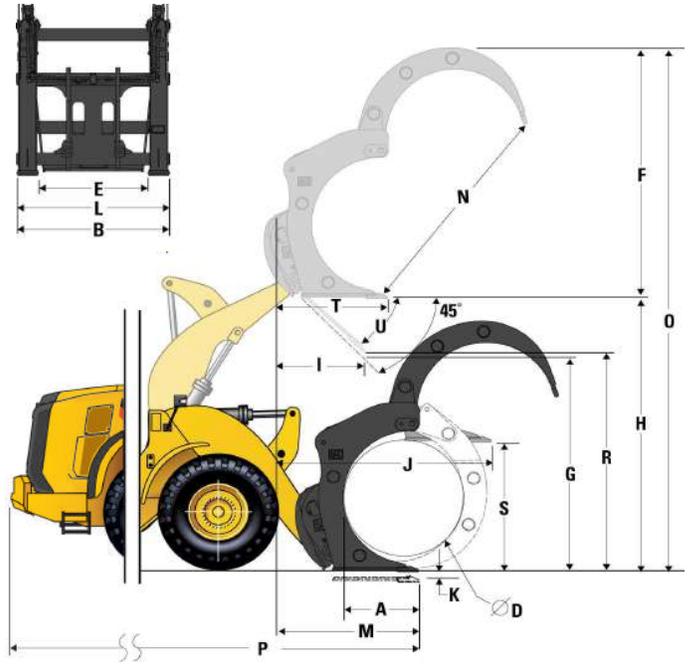
Capacity (kg)  
(Calculated Load at CG Point)



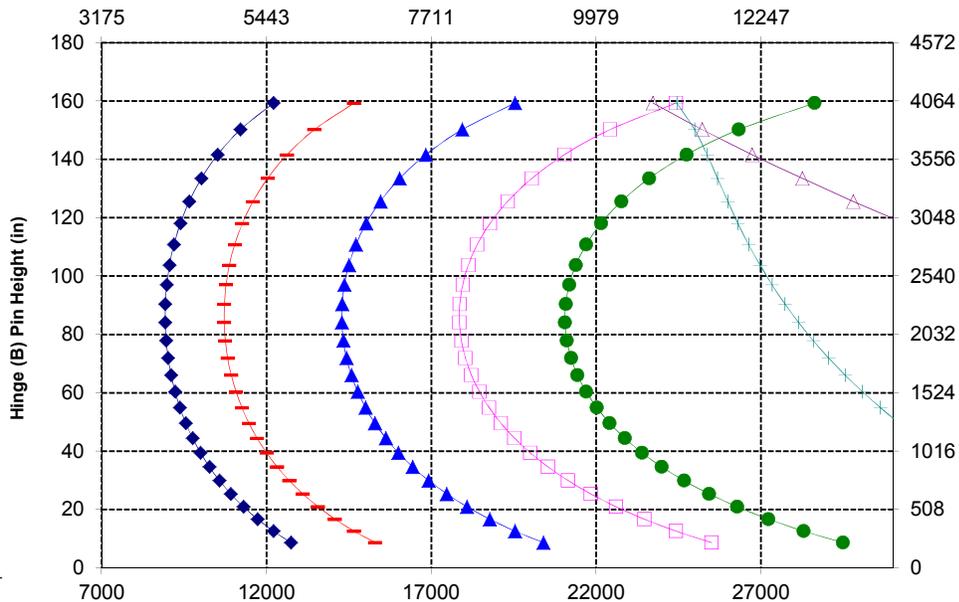
# 950M Forestry Specifications

## Grapple Fork – 36" Fusion

<b>A</b> Tine length	mm	917
	in	36.1
<b>B</b> Fork width	mm	1855
	in	73.0
End area	m <sup>2</sup>	2.5
	ft <sup>2</sup>	27
<b>C</b> Inside Height (only applies to double top clamp)	mm	0
	in	0
<b>D</b> Min. opening (only applies to millyard forks)	mm	N/A
	in	N/A
Operating Weight	kg	20598
	lbs	45411
<b>E</b> Distance inside of tine tips	mm	1314
	in	52
Static tipping load, articulated Fork level	kg	8100
	lbs	17858.1
Static tipping load, straight Fork level	kg	9552
	lbs	21057.8
<b>F</b> Max. height of fork (w/clamp open if applicable)	mm	3433
	in	135.1
<b>G</b> Clearance w/full lift, 45 deg dump (if max. dump <= 45)	mm	3035
	in	119.5
<b>H</b> Clearance @ full lift fork level	mm	3686
	in	145.1
<b>I</b> Reach w/full lift, 45 deg dump (if max. dump <= 45)	mm	1065
	in	41.9
<b>J</b> Reach w/lift arm horizontal and fork level	mm	2370
	in	93.3
<b>K</b> Digging depth	mm	-141
	in	-5.5
<b>L</b> Width over tines	mm	1850
	in	72.8
<b>M</b> Reach @ ground level	mm	1819
	in	72
<b>N</b> Max. opening across tine and clamp	mm	3123
	in	123.0
<b>O</b> Overall height of fork @ full lift and clamp open	mm	7119
	in	280.3
<b>P</b> Overall length Tip of tine to rear of machine	mm	8046
	in	316.8
<b>R</b> Clearance @ full lift and max. dump Discharge (if <= 45)	mm	2955
	in	116.3
<b>S</b> Clearance w/horizontal lift arms and fork level	mm	1725.3
	in	67.9
<b>T</b> Reach @ full lift and fork level	mm	1633.1
	in	64.3
<b>U</b> Max. discharge angle from horizontal	deg	57
	rad	1.0



Capacity (kg)  
(Calculated Load at CG Point)



Hinge (B) Pin Height (mm)

Capacity (lbs)  
(Calculated Load at CG Point)

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

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

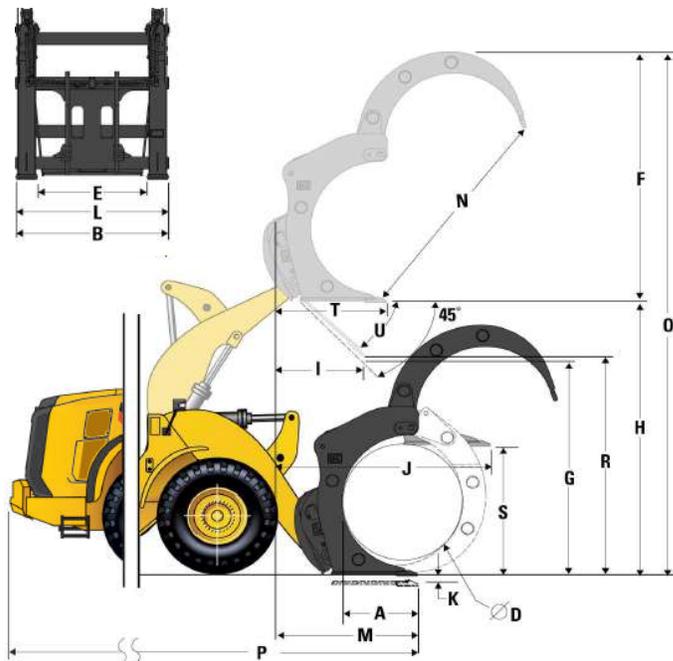
The rated operating load for a loader equipped with a pallet fork is determined by:  
SAE J1197: 50% of full turn static tipping load or hydraulic limit.  
CEN EN 474-3: 60% of full turn static tipping load on rough terrain or hydraulic limit.  
CEN EN 474-3: 80% of full turn static tipping load on firm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

\*SAE - Society of Automotive Engineers

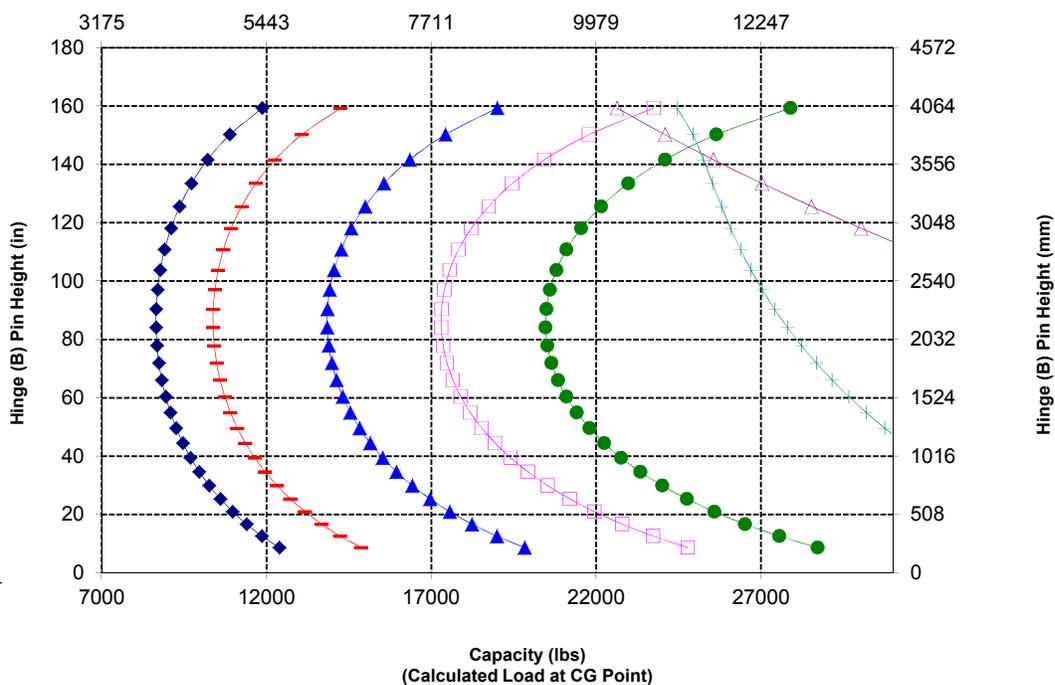
\*\*CEN - European Committee for Standardization

## Grapple Fork – 48" Fusion

<b>A</b> Tine length	mm	1220
	in	48.0
<b>B</b> Fork width	mm	1855
	in	73.0
End area	m <sup>2</sup>	2.63
	ft <sup>2</sup>	28
<b>C</b> Inside Height (only applies to double top clamp)	mm	0
	in	0
<b>D</b> Min. opening (only applies to millyard forks)	mm	N/A
	in	N/A
Operating Weight	kg	20759
	lbs	45766
<b>E</b> Distance inside of tine tips	mm	1314
	in	52
Static tipping load, articulated Fork level	kg	7848
	lbs	17302.3
Static tipping load, straight Fork level	kg	9285
	lbs	20470.7
<b>F</b> Max. height of fork (w/clamp open if applicable)	mm	3356
	in	132.1
<b>G</b> Clearance w/full lift, 45 deg dump (if max. dump <= 45)	mm	2853
	in	112.3
<b>H</b> Clearance @ full lift fork level	mm	3759
	in	148.0
<b>I</b> Reach w/full lift, 45 deg dump (if max. dump <= 45)	mm	1350
	in	53.1
<b>J</b> Reach w/lift arm horizontal and fork level	mm	2701
	in	106.3
<b>K</b> Digging depth	mm	-68
	in	-2.7
<b>L</b> Width over tines	mm	1850
	in	72.8
<b>M</b> Reach @ ground level	mm	2096
	in	83
<b>N</b> Max. opening across tine and clamp	mm	3027
	in	119.2
<b>O</b> Overall height of fork @ full lift and clamp open	mm	7115
	in	280.1
<b>P</b> Overall length Tip of tine to rear of machine	mm	8323
	in	327.7
<b>R</b> Clearance @ full lift and max. dump Discharge (if <= 45)	mm	2719
	in	107.0
<b>S</b> Clearance w/horizontal lift arms and fork level	mm	1798.0
	in	70.8
<b>T</b> Reach @ full lift and fork level	mm	1963.4
	in	77.3
<b>U</b> Max. discharge angle from horizontal	deg	57
	rad	1.0



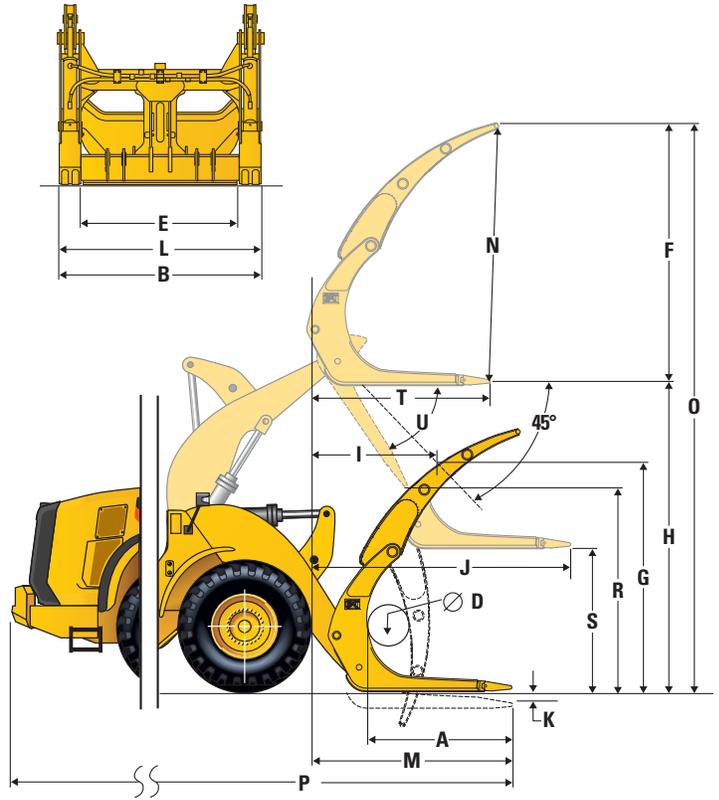
Capacity (kg)  
(Calculated Load at CG Point)



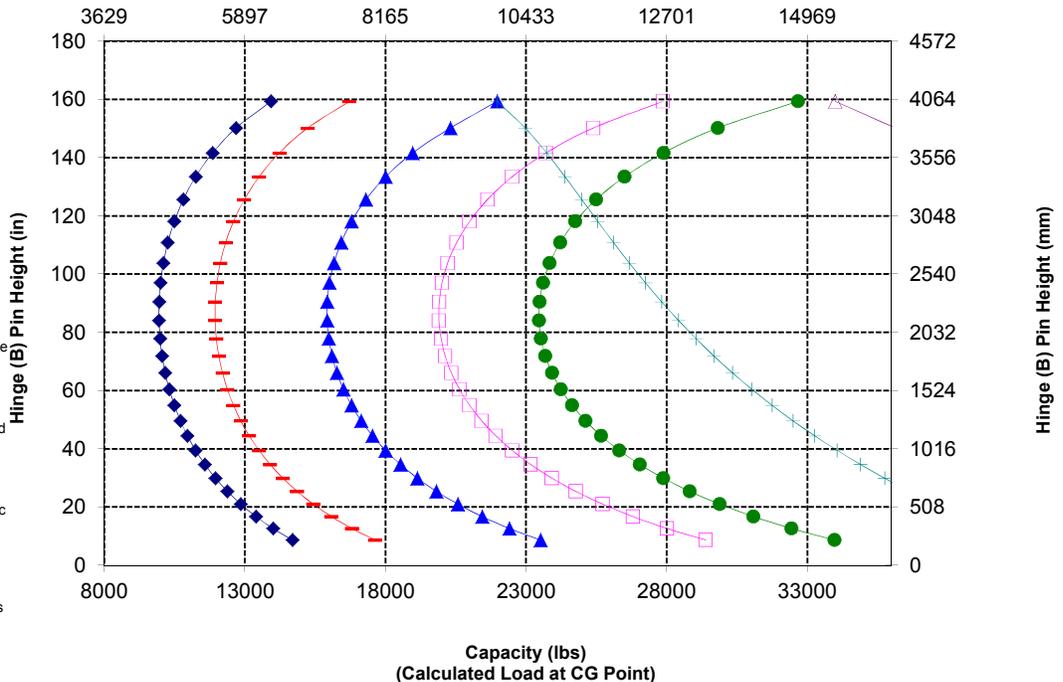
# 950M Forestry Specifications

## Millyard Fork – 63" Pin-On

<b>A</b> Tine length	mm	1609
	in	63.3
<b>B</b> Fork width	mm	2324
	in	91.5
End area	m <sup>2</sup>	1.26
	ft <sup>2</sup>	14
<b>C</b> Inside Height (only applies to double top clamp)	mm	0
	in	0
<b>D</b> Min. opening (only applies to millyard forks)	mm	427
	in	17
Operating Weight	kg	20548
	lbs	45301
<b>E</b> Distance inside of tine tips	mm	1780
	in	70
Static tipping load, articulated Fork level	kg	9029
	lbs	19904.7
Static tipping load, straight Fork level	kg	10642
	lbs	23461.7
<b>F</b> Max. height of fork (w/clamp open if applicable)	mm	2843
	in	111.9
<b>G</b> Clearance w/full lift, 45 deg dump (if max. dump < 45)	mm	2641
	in	104.0
<b>H</b> Clearance @ full lift fork level	mm	3773
	in	148.6
<b>I</b> Reach w/full lift, 45 deg dump (if max. dump < 45)	mm	1582
	in	62.3
<b>J</b> Reach w/lift arm horizontal and fork level	mm	3015
	in	118.7
<b>K</b> Digging depth	mm	-54
	in	-2.1
<b>L</b> Width over tines	mm	2286
	in	90.0
<b>M</b> Reach @ ground level	mm	2399
	in	94
<b>N</b> Max. opening across tine and clamp	mm	2709
	in	106.7
<b>O</b> Overall height of fork @ full lift and clamp open	mm	6617
	in	260.5
<b>P</b> Overall length Tip of tine to rear of machine	mm	8626
	in	339.6
<b>R</b> Clearance @ full lift and max. dump Discharge (if < 45)	mm	2625
	in	103.4
<b>S</b> Clearance w/horizontal lift arms and fork level	mm	1812.2
	in	71.3
<b>T</b> Reach @ full lift and fork level	mm	2277.4
	in	89.7
<b>U</b> Max. discharge angle from horizontal	deg	46
	rad	0.8

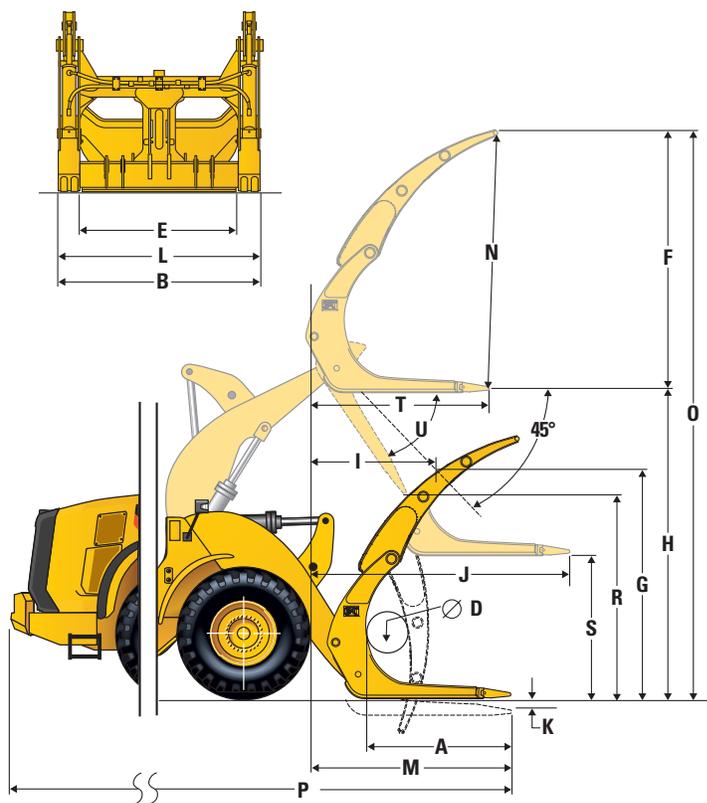


Capacity (kg)  
(Calculated Load at CG Point)

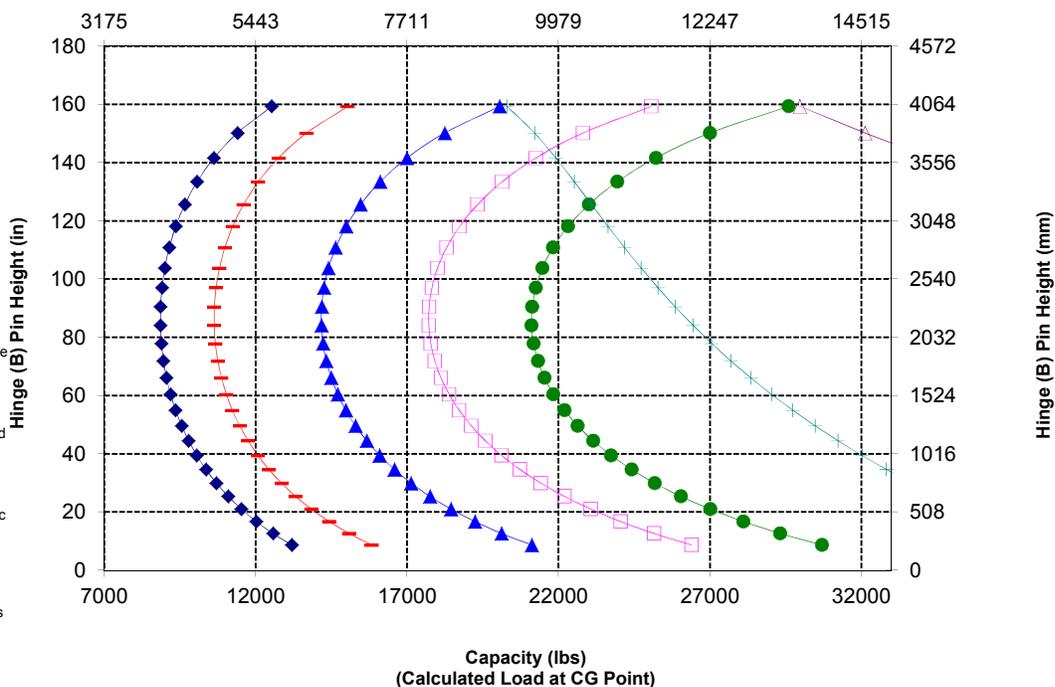


## Millyard Fork – 63" Fusion

<b>A</b> Tine length	mm	1609
	in	63.3
<b>B</b> Fork width	mm	2324
	in	91.5
End area	m <sup>2</sup>	1.26
	ft <sup>2</sup>	14
<b>C</b> Inside Height (only applies to double top clamp)	mm	0
	in	0
<b>D</b> Min. opening (only applies to millyard forks)	mm	427
	in	17
Operating Weight	kg	21220
	lbs	46782
<b>E</b> Distance inside of tine tips	mm	1780
	in	70
Static tipping load, articulated Fork level	kg	8036
	lbs	17716.1
Static tipping load, straight Fork level	kg	9577
	lbs	21113.2
<b>F</b> Max. height of fork (w/clamp open if applicable)	mm	2843
	in	111.9
<b>G</b> Clearance w/full lift, 45 deg dump (if max. dump <= 45)	mm	2554
	in	100.6
<b>H</b> Clearance @ full lift fork level	mm	3787
	in	149.1
<b>I</b> Reach w/full lift, 45 deg dump (if max. dump <= 45)	mm	1688
	in	66.5
<b>J</b> Reach w/lift arm horizontal and fork level	mm	3152
	in	124.1
<b>K</b> Digging depth	mm	-40
	in	-1.6
<b>L</b> Width over tines	mm	2286
	in	90.0
<b>M</b> Reach @ ground level	mm	2526
	in	99
<b>N</b> Max. opening across tine and clamp	mm	2709
	in	106.7
<b>O</b> Overall height of fork @ full lift and clamp open	mm	6630
	in	261.0
<b>P</b> Overall length Tip of tine to rear of machine	mm	8753
	in	344.6
<b>R</b> Clearance @ full lift and max. dump Discharge (if <= 45)	mm	2278
	in	89.7
<b>S</b> Clearance w/horizontal lift arms and fork level	mm	1825.9
	in	71.9
<b>T</b> Reach @ full lift and fork level	mm	2414.5
	in	95.1
<b>U</b> Max. discharge angle from horizontal	deg	63
	rad	1.1



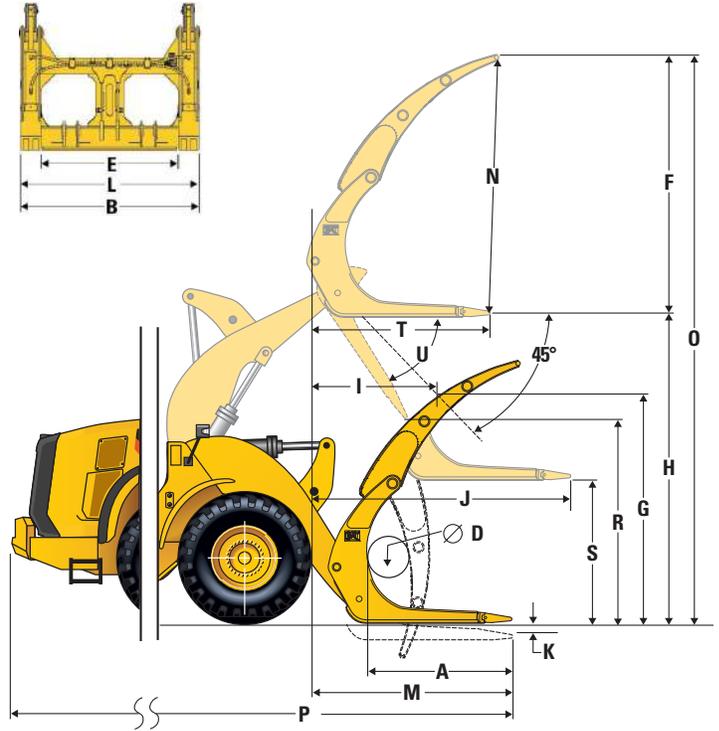
Capacity (kg)  
(Calculated Load at CG Point)



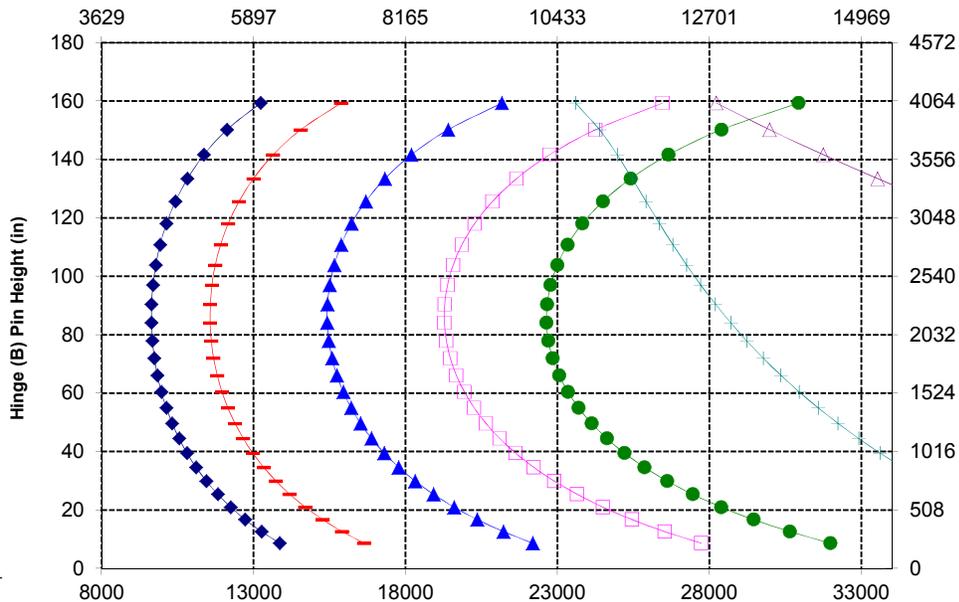
# 950M Forestry Specifications

## Logging Fork – 63" Double Clamp, Pin-On

<b>A</b> Tine length	mm	1609
	in	63.3
<b>B</b> Fork width	mm	2332
	in	91.8
End area	m <sup>2</sup>	1.9
	ft <sup>2</sup>	20
<b>C</b> Inside Height (only applies to double top clamp)	mm	1381
	in	54
<b>D</b> Min. opening (only applies to millyard forks)	mm	N/A
	in	N/A
Operating Weight	kg	20360
	lbs	44886
<b>E</b> Distance inside of tine tips	mm	1776
	in	70
Static tipping load, articulated Fork level	kg	8746
	lbs	19280.5
Static tipping load, straight Fork level	kg	10270
	lbs	22642.1
<b>F</b> Max. height of fork (w/clamp open if applicable)	mm	2944
	in	115.9
<b>G</b> Clearance w/full lift, 45 deg dump (if max. dump <= 45)	mm	2640
	in	104.0
<b>H</b> Clearance @ full lift fork level	mm	3774
	in	148.6
<b>I</b> Reach w/full lift, 45 deg dump (if max. dump <= 45)	mm	1583
	in	62.3
<b>J</b> Reach w/lift arm horizontal and fork level	mm	3016
	in	118.8
<b>K</b> Digging depth	mm	-53
	in	-2.1
<b>L</b> Width over tines	mm	2298
	in	90.5
<b>M</b> Reach @ ground level	mm	2401
	in	95
<b>N</b> Max. opening across tine and clamp	mm	2542
	in	100.1
<b>O</b> Overall height of fork @ full lift and clamp open	mm	6717
	in	264.5
<b>P</b> Overall length Tip of tine to rear of machine	mm	8628
	in	339.7
<b>R</b> Clearance @ full lift and max. dump Discharge (if <= 45)	mm	2625
	in	103.3
<b>S</b> Clearance w/horizontal lift arms and fork level	mm	1812.7
	in	71.4
<b>T</b> Reach @ full lift and fork level	mm	2279.1
	in	89.7
<b>U</b> Max. discharge angle from horizontal	deg	46
	rad	0.8



Capacity (kg)  
(Calculated Load at CG Point)



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

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

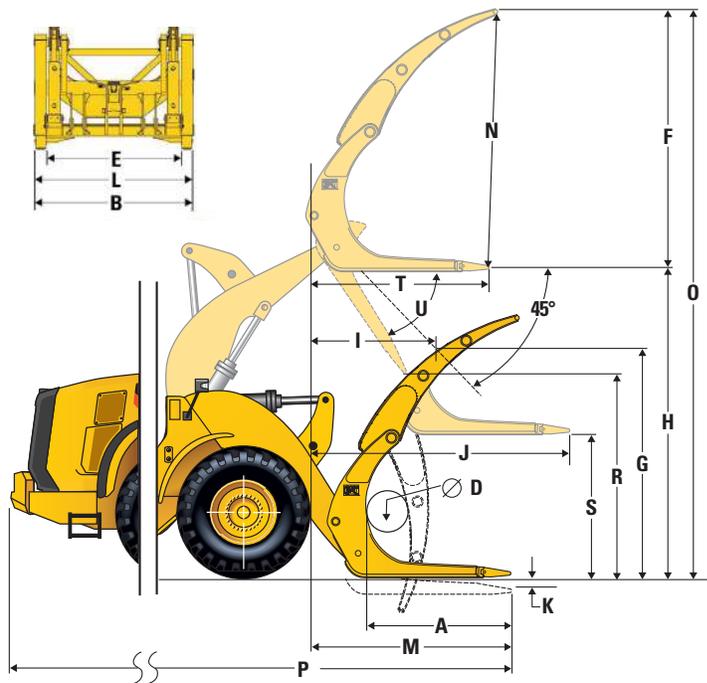
The rated operating load for a loader equipped with a pallet fork is determined by:  
 SAE J1197: 50% of full turn static tipping load or hydraulic limit.  
 CEN EN 474-3: 60% of full turn static tipping load on rough terrain or hydraulic limit.  
 CEN EN 474-3: 80% of full turn static tipping load on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

<sup>\*</sup>SAE - Society of Automotive Engineers

<sup>\*\*</sup>CEN - European Committee for Standardization

## Millyard Pole Fork – 66" Pin-On

<b>A</b> Tine length	mm	1677
	in	66.0
<b>B</b> Fork width	mm	2236
	in	88.0
End area	m <sup>2</sup>	1.39
	ft <sup>2</sup>	15
<b>C</b> Inside Height (only applies to double top clamp)	mm	0
	in	0
<b>D</b> Min. opening (only applies to millyard forks)	mm	330
	in	13
Operating Weight	kg	19932
	lbs	43943
<b>E</b> Distance inside of tine tips	mm	1904
	in	75
Static tipping load, articulated Fork level	kg	8768
	lbs	19329.5
Static tipping load, straight Fork level	kg	10248
	lbs	22591.8
<b>F</b> Max. height of fork (w/clamp open if applicable)	mm	3144
	in	123.8
<b>G</b> Clearance w/full lift, 45 deg dump (if max. dump <= 45)	mm	2368
	in	93.2
<b>H</b> Clearance @ full lift fork level	mm	3671
	in	144.5
<b>I</b> Reach w/full lift, 45 deg dump (if max. dump <= 45)	mm	1710
	in	67.3
<b>J</b> Reach w/lift arm horizontal and fork level	mm	3299
	in	129.9
<b>K</b> Digging depth	mm	-156
	in	-6.1
<b>L</b> Width over tines	mm	2184
	in	86.0
<b>M</b> Reach @ ground level	mm	2758
	in	109
<b>N</b> Max. opening across tine and clamp	mm	2914
	in	114.7
<b>O</b> Overall height of fork @ full lift and clamp open	mm	6815
	in	268.3
<b>P</b> Overall length Tip of tine to rear of machine	mm	8985
	in	353.8
<b>R</b> Clearance @ full lift and max. dump Discharge (if <= 45)	mm	2351
	in	92.5
<b>S</b> Clearance w/horizontal lift arms and fork level	mm	1710.1
	in	67.3
<b>T</b> Reach @ full lift and fork level	mm	2561.3
	in	100.8
<b>U</b> Max. discharge angle from horizontal	deg	46
	rad	0.8



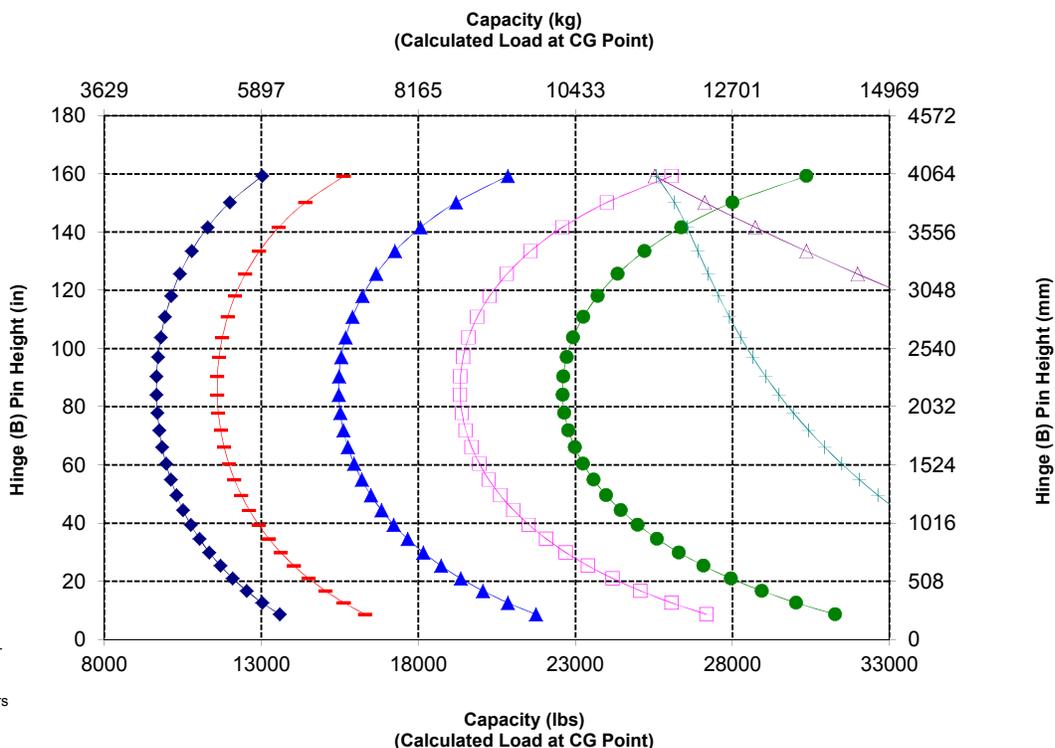
- ◆ Payload (SAE J1197)
- Payload (CEN EN 474-3 - Rough Terrain)
- ▲ Payload (CEN EN 474-3 - Firm & Level)
- Static Tipping Load - Articulated
- Static Tipping Load - Straight
- Hydraulic Tilt Capacity
- Hydraulic Lift Capacity

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

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 CEN EN 474-3: 80% of full turn static tipping load on firm and level ground or hydraulic limit.

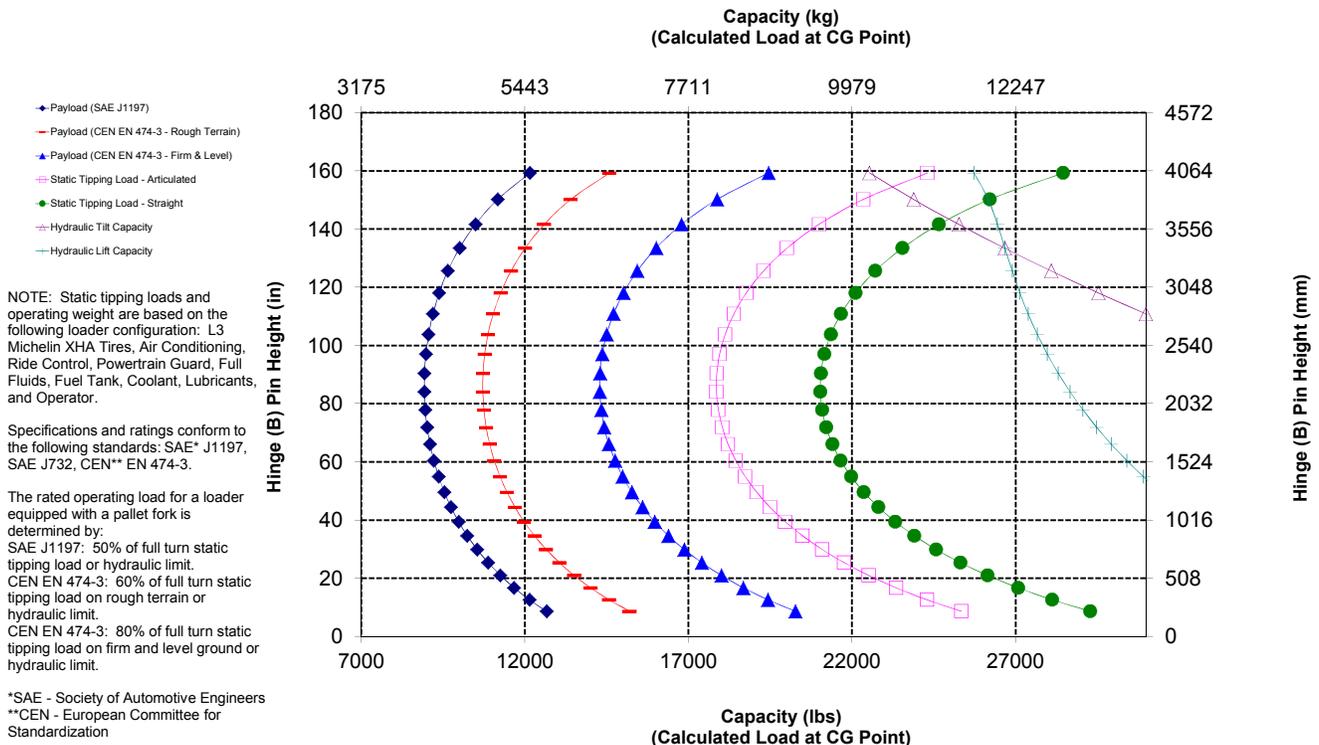
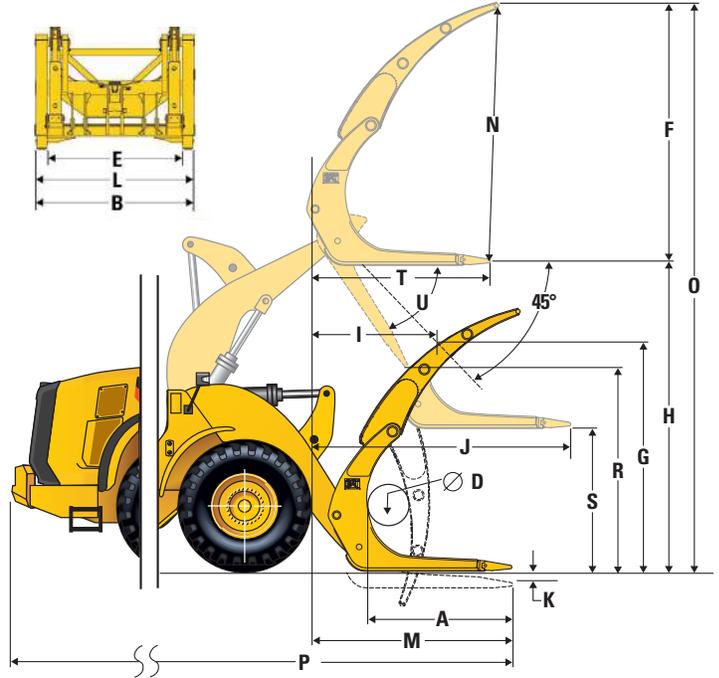
\*SAE - Society of Automotive Engineers  
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# 950M Forestry Specifications

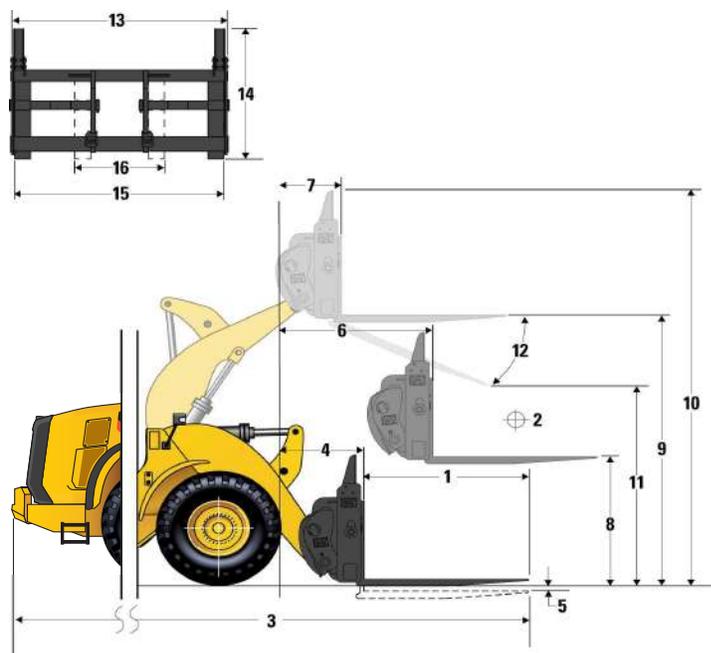
## Millyard Pole Fork – 66" Fusion

<b>A</b> Tine length	mm	1677
	in	66.0
<b>B</b> Fork width	mm	2236
	in	88.0
End area	m <sup>2</sup>	1.39
	ft <sup>2</sup>	15
<b>C</b> Inside Height (only applies to double top clamp)	mm	0
	in	0
<b>D</b> Min. opening (only applies to millyard forks)	mm	330
	in	13
Operating Weight	kg	20488
	lbs	45168
<b>E</b> Distance inside of tine tips	mm	1904
	in	75
Static tipping load, articulated Fork level	kg	8101
	lbs	17859.3
Static tipping load, straight Fork level	kg	9539
	lbs	21029.9
<b>F</b> Max. height of fork (w/clamp open if applicable)	mm	3148
	in	123.9
<b>G</b> Clearance w/full lift, 45 deg dump (if max. dump <= 45)	mm	2359
	in	92.9
<b>H</b> Clearance @ full lift fork level	mm	3747
	in	147.5
<b>I</b> Reach w/full lift, 45 deg dump (if max. dump <= 45)	mm	1827
	in	71.9
<b>J</b> Reach w/lift arm horizontal and fork level	mm	3388
	in	133.4
<b>K</b> Digging depth	mm	-80
	in	-3.2
<b>L</b> Width over tines	mm	2184
	in	86.0
<b>M</b> Reach @ ground level	mm	2793
	in	110
<b>N</b> Max. opening across tine and clamp	mm	2914
	in	114.7
<b>O</b> Overall height of fork @ full lift and clamp open	mm	6895
	in	271.4
<b>P</b> Overall length Tip of tine to rear of machine	mm	9020
	in	355.1
<b>R</b> Clearance @ full lift and max. dump Discharge (if <= 45)	mm	2178
	in	85.8
<b>S</b> Clearance w/horizontal lift arms and fork level	mm	1785.9
	in	70.3
<b>T</b> Reach @ full lift and fork level	mm	2650.8
	in	104.4
<b>U</b> Max. discharge angle from horizontal	deg	54
	rad	0.9



## Log & Lumber Fork – 48" No TC, Pin-On

1	Tine Length	mm	1219
		in	48.0
2	Load Center	mm	610
		in	24.0
	Static Tipping Load - Straight (Forks Level)	kg	11273
		lbs	24845
	Static Tipping Load - Articulated (Forks Level)	kg	9774
		lbs	21541
	Rated Load (SAE J1197 - 50% FTSTL)	kg	4887
		lbs	10770
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	5864
		lbs	12925
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	7819
		lbs	17233
3	Maximum Overall Length	mm	8553
		in	336.7
4	Reach with Forks at Ground Level	mm	1107
		in	43.6
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	-6
		in	-0.2
6	Reach with Arms Horizontal and Forks Level	mm	1661
		in	65.4
7	Reach with Fork at Maximum Height	mm	924
		in	36.4
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1860
		in	73.2
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	3821
		in	150.5
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5357
		in	210.9
11	Clearance at Full Lift and Max Dump	mm	2710
		in	106.7
12	Max Discharge Angle from Horizontal	deg	46
13	Overall Carriage Width	mm	2470
		in	97.3
14	Overall Carriage Height	mm	1601
		in	63.0
15	Outside Tine Width (max spread)	mm	2366
		in	93.1
16	Outside Tine Width (min spread)	mm	1002
		in	39.4
	Tine Width (single tine)	mm	180.0
		in	7.1
	Tine Thickness	mm	65.0
		in	2.6
	Tine Capacity	kg	10500
		lbs	23142
	Operating Weight	kg	19024
		lbs	41930



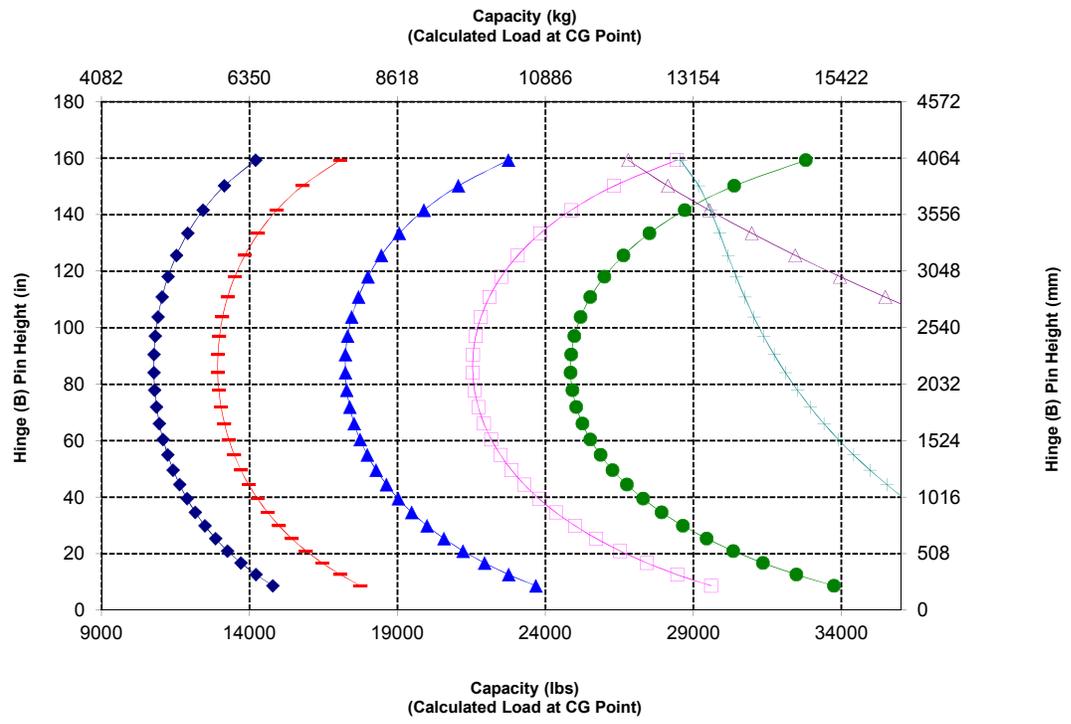
- ◆ Payload (SAE J1197)
- ◆ Payload (CEN EN 474-3 - Rough Terrain)
- ◆ Payload (CEN EN 474-3 - Firm & Level)
- ◆ Static Tipping Load - Articulated
- ◆ Static Tipping Load - Straight
- ◆ Hydraulic Tilt Capacity
- ◆ Hydraulic Lift Capacity

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

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

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

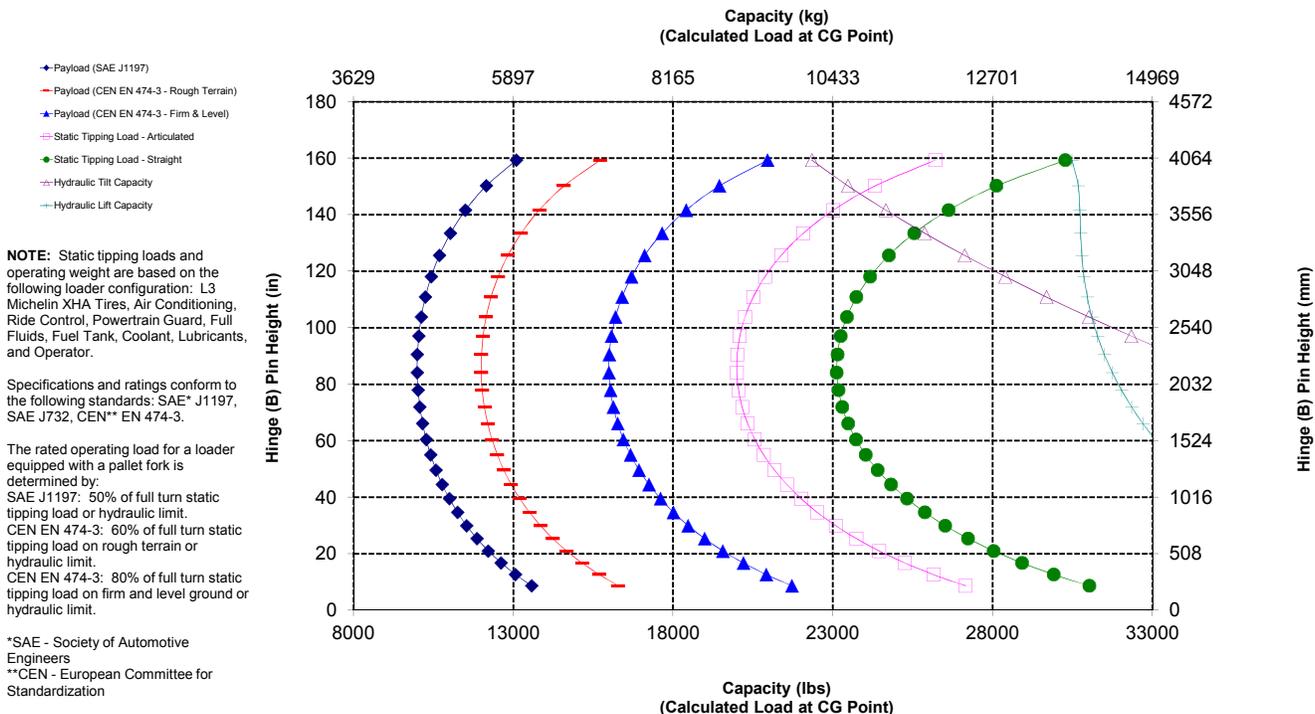
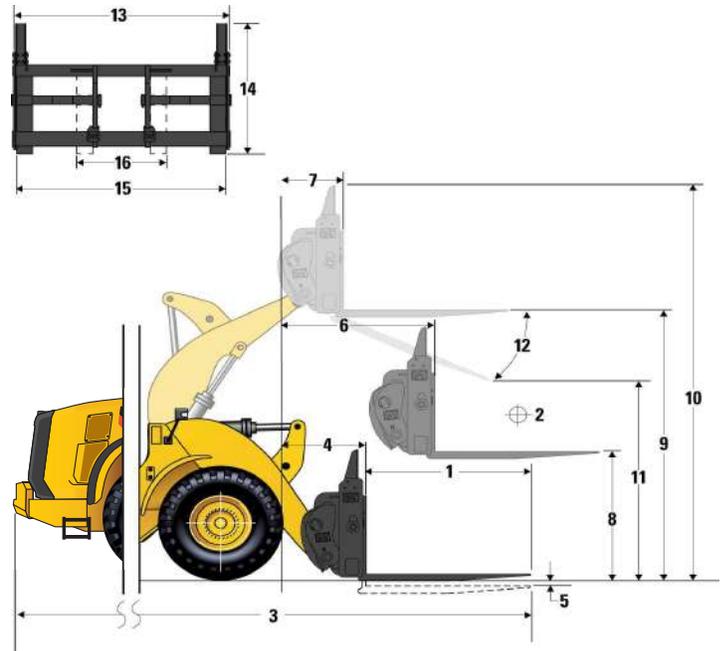
\*SAE - Society of Automotive Engineers  
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# 950M Forestry Specifications

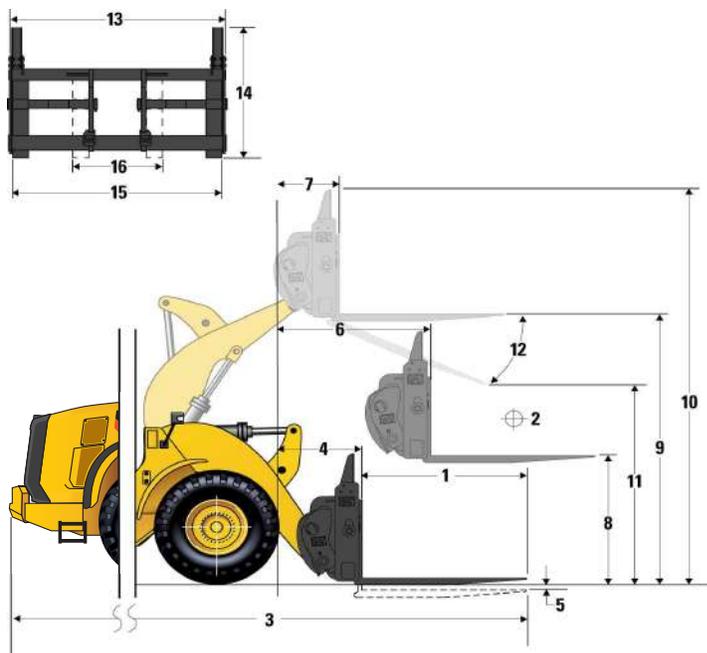
## Log & Lumber Fork – 60" No TC, Pin-On

1	Tine Length	mm	1524
		in	60.0
2	Load Center	mm	762
		in	30.0
	Static Tipping Load - Straight (Forks Level)	kg	10488
		lbs	23116
	Static Tipping Load - Articulated (Forks Level)	kg	9070
		lbs	19990
	Rated Load (SAE J1197 - 50% FTSTL)	kg	4535
		lbs	9995
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	5442
		lbs	11994
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	7256
		lbs	15992
3	Maximum Overall Length	mm	8900
		in	350.4
4	Reach with Forks at Ground Level	mm	1149
		in	45.2
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	19
		in	0.8
6	Reach with Arms Horizontal and Forks Level	mm	1686
		in	66.4
7	Reach with Fork at Maximum Height	mm	949
		in	37.4
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1885
		in	74.2
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	3846
		in	151.4
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5357
		in	210.9
11	Clearance at Full Lift and Max Dump	mm	2473
		in	97.4
12	Max Discharge Angle from Horizontal	deg	46
13	Overall Carriage Width	mm	2470
		in	97.3
14	Overall Carriage Height	mm	1601
		in	63.0
15	Outside Tine Width (max spread)	mm	2366
		in	93.1
16	Outside Tine Width (min spread)	mm	1002
		in	39.4
	Tine Width (single tine)	mm	180.0
		in	7.1
	Tine Thickness	mm	90.0
		in	3.5
	Tine Capacity	kg	15906
		lbs	35057
	Operating Weight	kg	19225
		lbs	42373



## Log & Lumber Fork – 72" No TC, Pin-On

1	Tine Length	mm	1829
		in	72.0
2	Load Center	mm	915
		in	36.0
	Static Tipping Load - Straight (Forks Level)	kg	9959
		lbs	21951
	Static Tipping Load - Articulated (Forks Level)	kg	8604
		lbs	18963
	Rated Load (SAE J1197 - 50% FTSTL)	kg	4302
		lbs	9481
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	5162
		lbs	11378
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	6883
		lbs	15170
3	Maximum Overall Length	mm	9205
		in	362.4
4	Reach with Forks at Ground Level	mm	1149
		in	45.2
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	19
		in	0.8
6	Reach with Arms Horizontal and Forks Level	mm	1686
		in	66.4
7	Reach with Fork at Maximum Height	mm	949
		in	37.3
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1885
		in	74.2
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	3846
		in	151.4
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5357
		in	210.9
11	Clearance at Full Lift and Max Dump	mm	2255
		in	88.8
12	Max Discharge Angle from Horizontal	deg	46
13	Overall Carriage Width	mm	2470
		in	97.3
14	Overall Carriage Height	mm	1601
		in	63.0
15	Outside Tine Width (max spread)	mm	2366
		in	93.1
16	Outside Tine Width (min spread)	mm	1002
		in	39.4
	Tine Width (single tine)	mm	180.0
		in	7.1
	Tine Thickness	mm	90.0
		in	3.5
	Tine Capacity	kg	12600
		lbs	27770
	Operating Weight	kg	19287
		lbs	42509



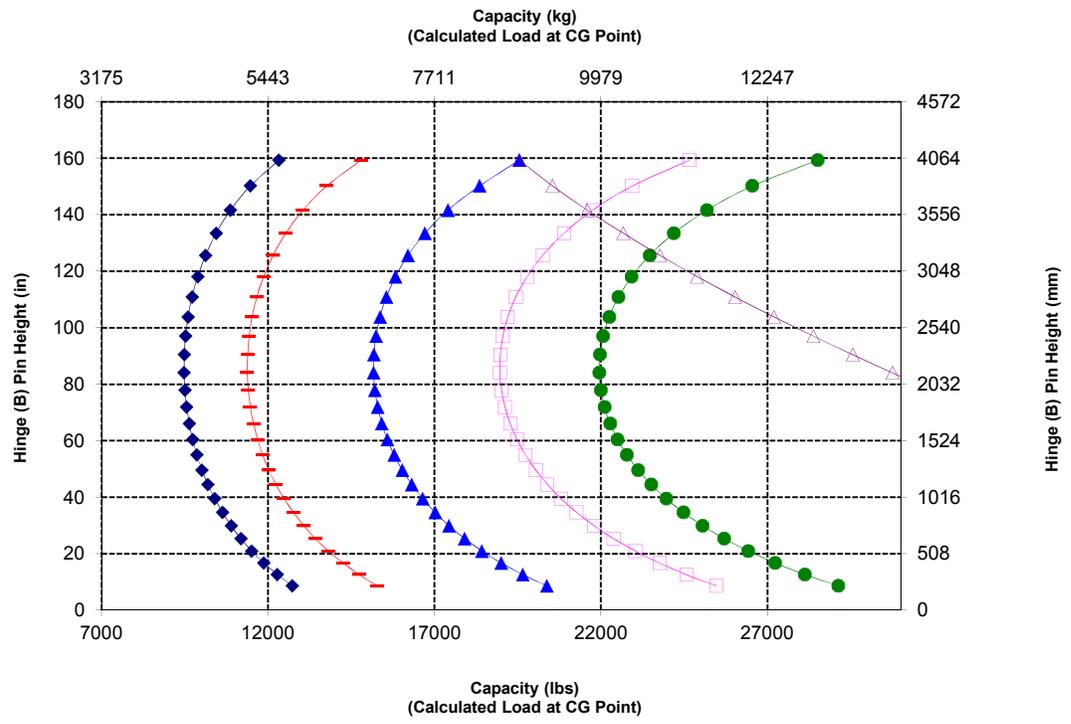
- ◆ Payload (SAE J1197)
- ◆ Payload (CEN EN 474-3 - Rough Terrain)
- ◆ Payload (CEN EN 474-3 - Firm & Level)
- ◆ Static Tipping Load - Articulated
- ◆ Static Tipping Load - Straight
- ◆ Hydraulic Tilt Capacity
- ◆ Hydraulic Lift Capacity

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

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

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

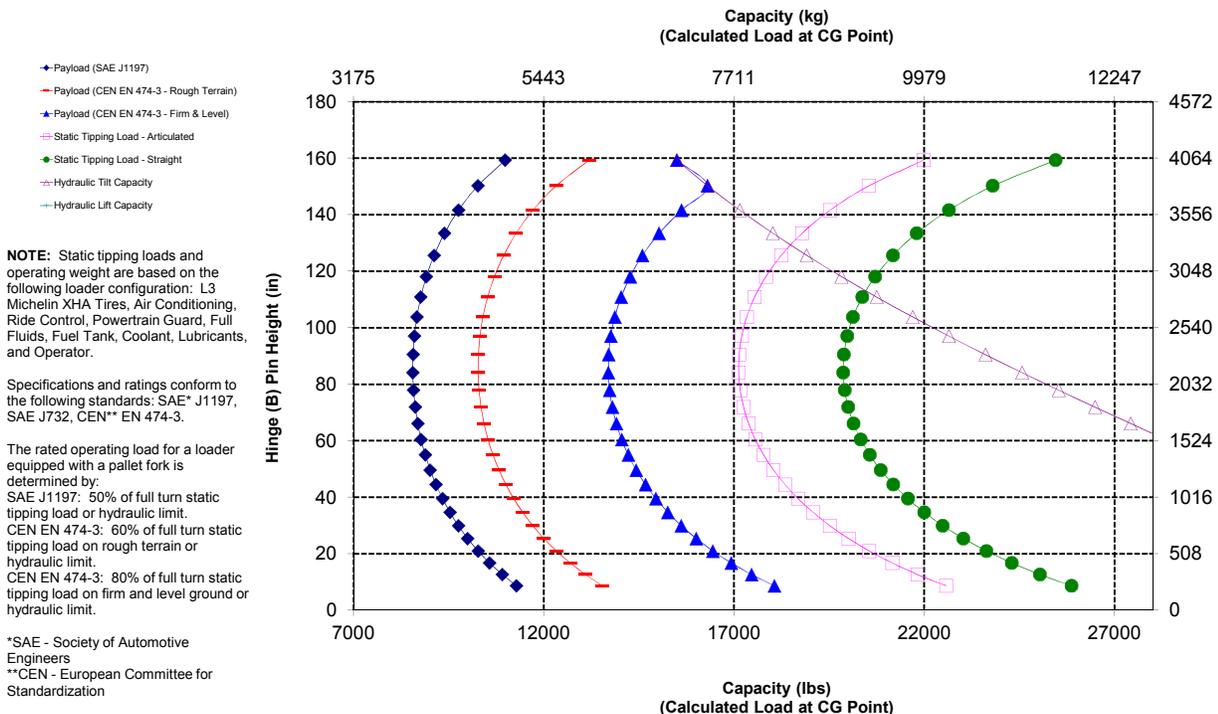
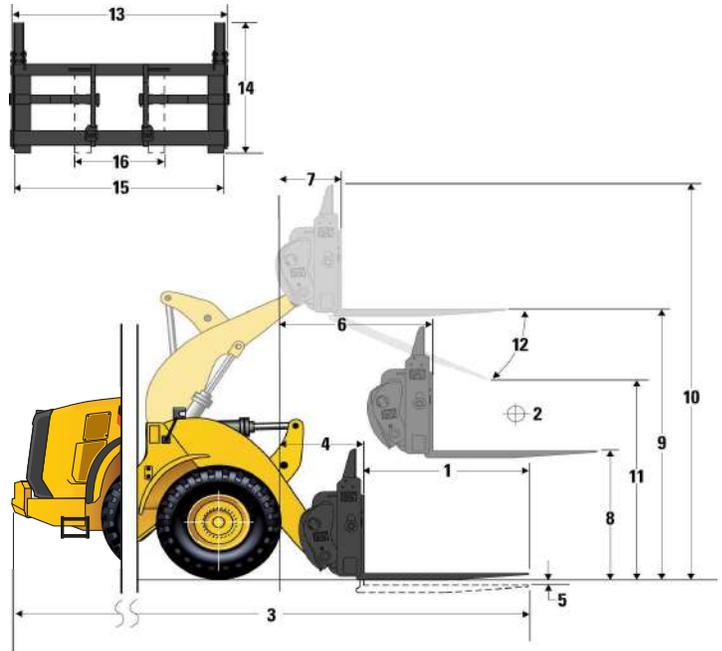
\*SAE - Society of Automotive Engineers  
 \*\*CEN - European Committee for Standardization



# 950M Forestry Specifications

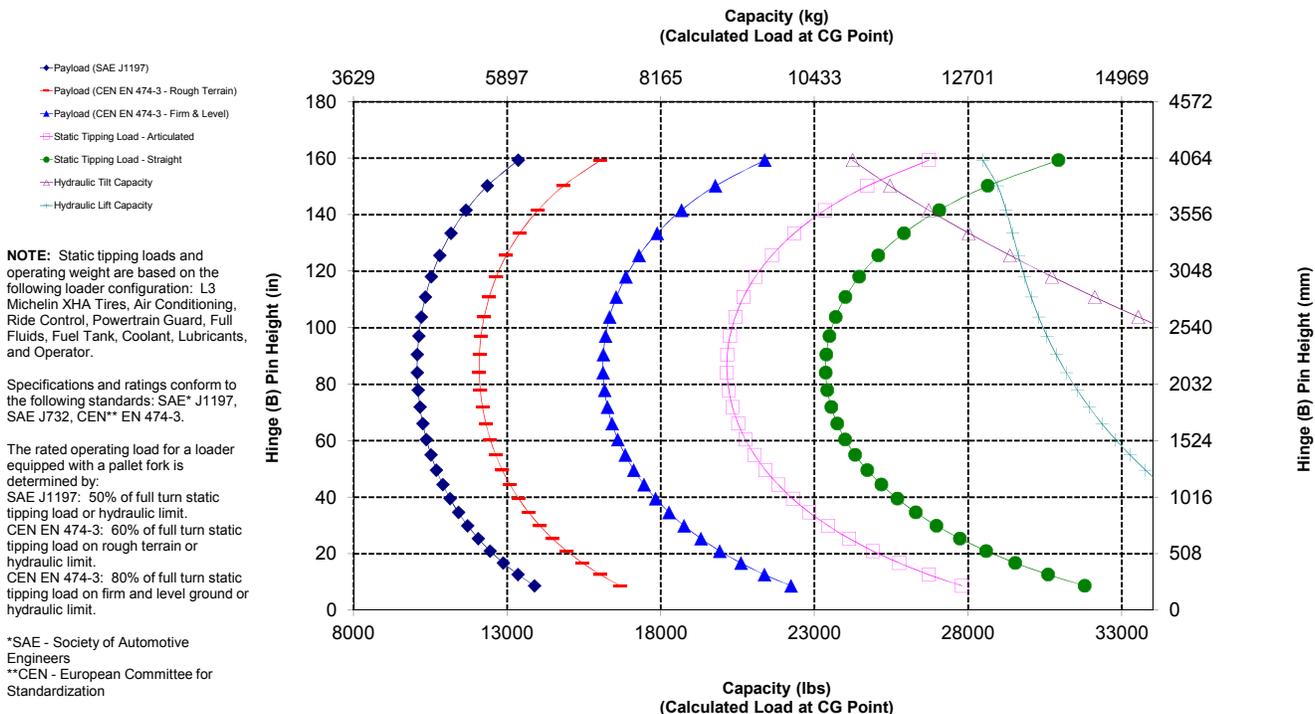
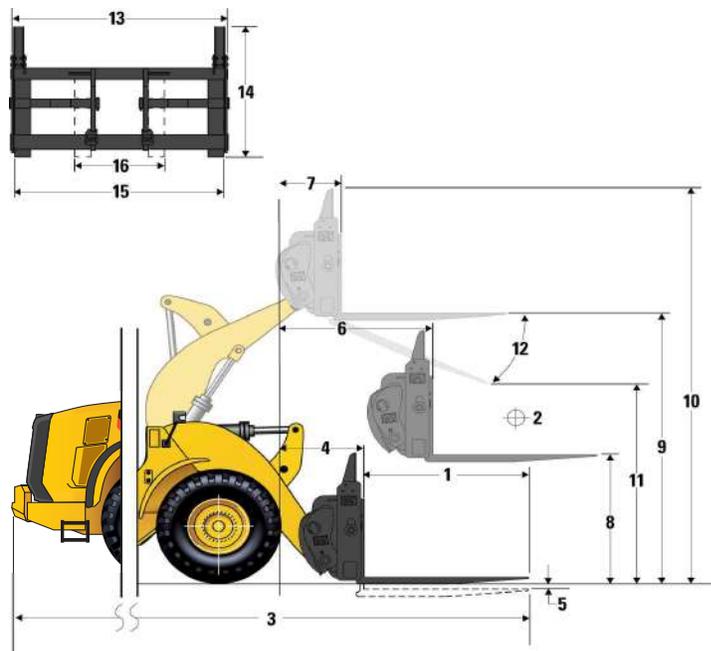
## Log & Lumber Fork – 96" No TC, Pin-On

1	Tine Length	mm	2438
		in	96.0
2	Load Center	mm	1219
		in	48.0
	Static Tipping Load - Straight (Forks Level)	kg	9014
		lbs	19866
	Static Tipping Load - Articulated (Forks Level)	kg	7768
		lbs	17121
	Rated Load (SAE J1197 - 50% FTSTL)	kg	3884
		lbs	8560
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	4661
		lbs	10273
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	6215
		lbs	13697
3	Maximum Overall Length	mm	9814
		in	386.4
4	Reach with Forks at Ground Level	mm	1149
		in	45.3
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	19
		in	0.8
6	Reach with Arms Horizontal and Forks Level	mm	1686
		in	66.4
7	Reach with Fork at Maximum Height	mm	949
		in	37.4
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1885
		in	74.2
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	3846
		in	151.4
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5357
		in	210.9
11	Clearance at Full Lift and Max Dump	mm	1817
		in	71.5
12	Max Discharge Angle from Horizontal	deg	46
13	Overall Carriage Width	mm	2470
		in	97.3
14	Overall Carriage Height	mm	1601
		in	63.0
15	Outside Tine Width (max spread)	mm	2366
		in	93.1
16	Outside Tine Width (min spread)	mm	1002
		in	39.4
	Tine Width (single tine)	mm	180.0
		in	7.1
	Tine Thickness	mm	90.0
		in	3.5
	Tine Capacity	kg	10100
		lbs	22260
	Operating Weight	kg	19415
		lbs	42791



## Log & Lumber Fork – 48" No TC, Fusion

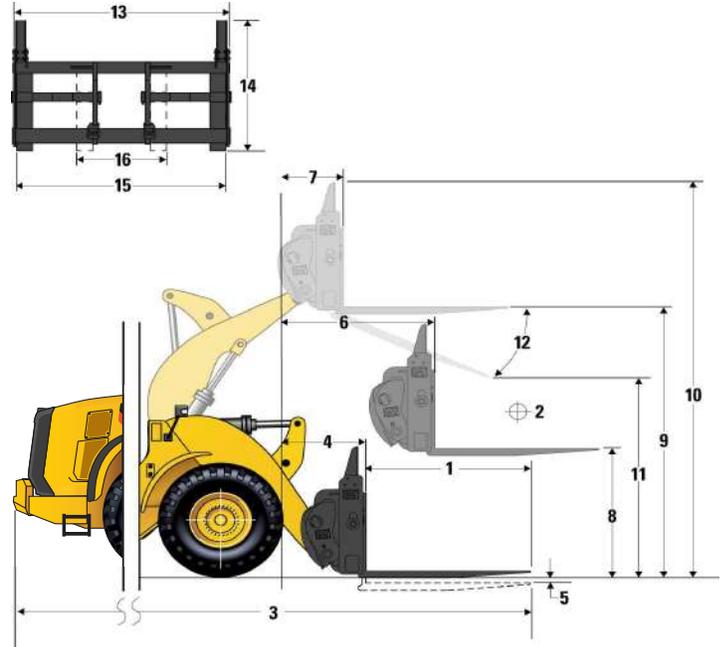
1	Tine Length	mm	1219
		in	48.0
2	Load Center	mm	610
		in	24.0
	Static Tipping Load - Straight (Forks Level)	kg	10597
		lbs	23357
	Static Tipping Load - Articulated (Forks Level)	kg	9142
		lbs	20149
	Rated Load (SAE J1197 - 50% FTSTL)	kg	4571
		lbs	10074
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	5485
		lbs	12089
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	7313
		lbs	16119
3	Maximum Overall Length	mm	8645
		in	340.4
4	Reach with Forks at Ground Level	mm	1199
		in	47.2
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	-4
		in	-0.1
6	Reach with Arms Horizontal and Forks Level	mm	1755
		in	69.1
7	Reach with Fork at Maximum Height	mm	1018
		in	40.1
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1862
		in	73.3
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	3823
		in	150.5
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5359
		in	211.0
11	Clearance at Full Lift and Max Dump	mm	2579
		in	101.6
12	Max Discharge Angle from Horizontal	deg	50
13	Overall Carriage Width	mm	2176
		in	85.7
14	Overall Carriage Height	mm	1601
		in	63.0
15	Outside Tine Width (max spread)	mm	2084
		in	82.0
16	Outside Tine Width (min spread)	mm	1002
		in	39.4
	Tine Width (single tine)	mm	180.0
		in	7.1
	Tine Thickness	mm	65.0
		in	2.6
	Tine Capacity	kg	10500
		lbs	23142
	Operating Weight	kg	19507
		lbs	42994



# 950M Forestry Specifications

## Log & Lumber Fork – 60" No TC, Fusion

1	Tine Length	mm	1524
		in	60.0
2	Load Center	mm	762
		in	30.0
	Static Tipping Load - Straight (Forks Level)	kg	9864
		lbs	21740
	Static Tipping Load - Articulated (Forks Level)	kg	8484
		lbs	18699
	Rated Load (SAE J1197 - 50% FTSTL)	kg	4242
		lbs	9350
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	5091
		lbs	11220
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	6787
		lbs	14959
3	Maximum Overall Length	mm	8993
		in	354.0
4	Reach with Forks at Ground Level	mm	1242
		in	48.9
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	21
		in	0.8
6	Reach with Arms Horizontal and Forks Level	mm	1780
		in	70.1
7	Reach with Fork at Maximum Height	mm	1043
		in	41.1
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1887
		in	74.3
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	3848
		in	151.5
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5359
		in	211.0
11	Clearance at Full Lift and Max Dump	mm	2327
		in	91.6
12	Max Discharge Angle from Horizontal	deg	50
13	Overall Carriage Width	mm	2176
		in	85.7
14	Overall Carriage Height	mm	1601
		in	63.0
15	Outside Tine Width (max spread)	mm	2084
		in	82.0
16	Outside Tine Width (min spread)	mm	1002
		in	39.4
	Tine Width (single tine)	mm	180.0
		in	7.1
	Tine Thickness	mm	90.0
		in	3.5
	Tine Capacity	kg	15906
		lbs	35057
	Operating Weight	kg	19708
		lbs	43437



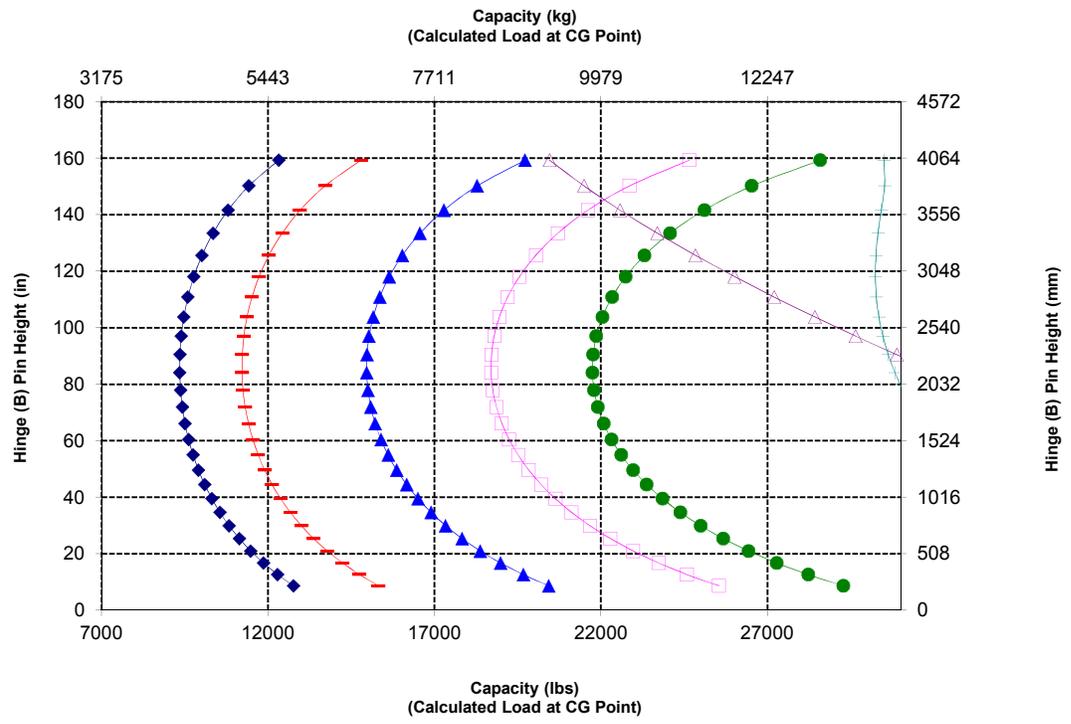
- ◆ Payload (SAE J1197)
- ◆ Payload (CEN EN 474-3 - Rough Terrain)
- ◆ Payload (CEN EN 474-3 - Firm & Level)
- ◆ Static Tipping Load - Articulated
- ◆ Static Tipping Load - Straight
- ◆ Hydraulic Tilt Capacity
- ◆ Hydraulic Lift Capacity

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

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

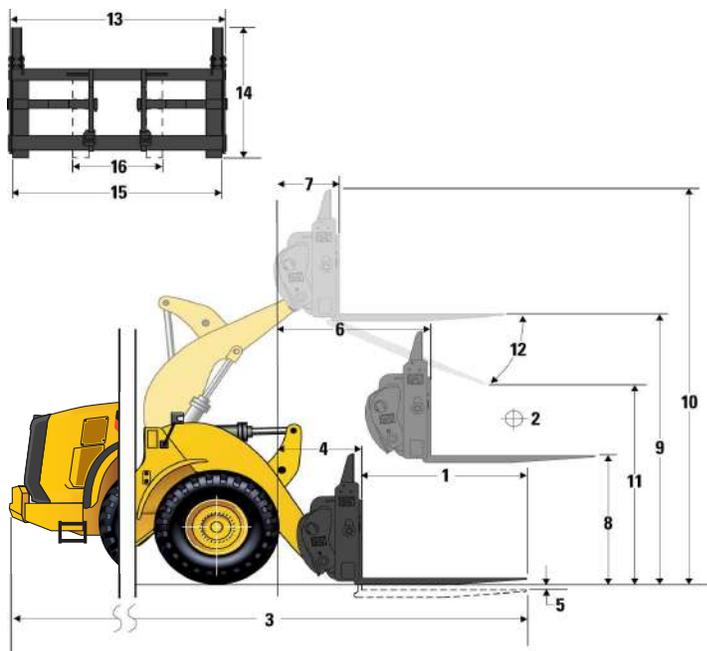
The rated operating load for a loader equipped with a pallet fork is determined by:  
 SAE J1197: 50% of full turn static tipping load or hydraulic limit.  
 CEN EN 474-3: 60% of full turn static tipping load on rough terrain or hydraulic limit.  
 CEN EN 474-3: 80% of full turn static tipping load on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

\*SAE - Society of Automotive Engineers  
 \*\*CEN - European Committee for Standardization



## Log & Lumber Fork – 72" No TC, Fusion

1	Tine Length	mm	1829
		in	72.0
2	Load Center	mm	915
		in	36.0
	Static Tipping Load - Straight (Forks Level)	kg	9374
		lbs	20659
	Static Tipping Load - Articulated (Forks Level)	kg	8054
		lbs	17750
	Rated Load (SAE J1197 - 50% FTSTL)	kg	4027
		lbs	8875
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	4832
		lbs	10650
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	6443
		lbs	14200
3	Maximum Overall Length	mm	9298
		in	366.0
4	Reach with Forks at Ground Level	mm	1242
		in	48.9
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	21
		in	0.8
6	Reach with Arms Horizontal and Forks Level	mm	1780
		in	70.1
7	Reach with Fork at Maximum Height	mm	1043
		in	41.1
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1887
		in	74.3
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	3848
		in	151.5
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5359
		in	211.0
11	Clearance at Full Lift and Max Dump	mm	2093
		in	82.4
12	Max Discharge Angle from Horizontal	deg	50
13	Overall Carriage Width	mm	2176
		in	85.7
14	Overall Carriage Height	mm	1601
		in	63.0
15	Outside Tine Width (max spread)	mm	2084
		in	82.0
16	Outside Tine Width (min spread)	mm	1002
		in	39.4
	Tine Width (single tine)	mm	180.0
		in	7.1
	Tine Thickness	mm	90.0
		in	3.5
	Tine Capacity	kg	12600
		lbs	27770
	Operating Weight	kg	19770
		lbs	43574



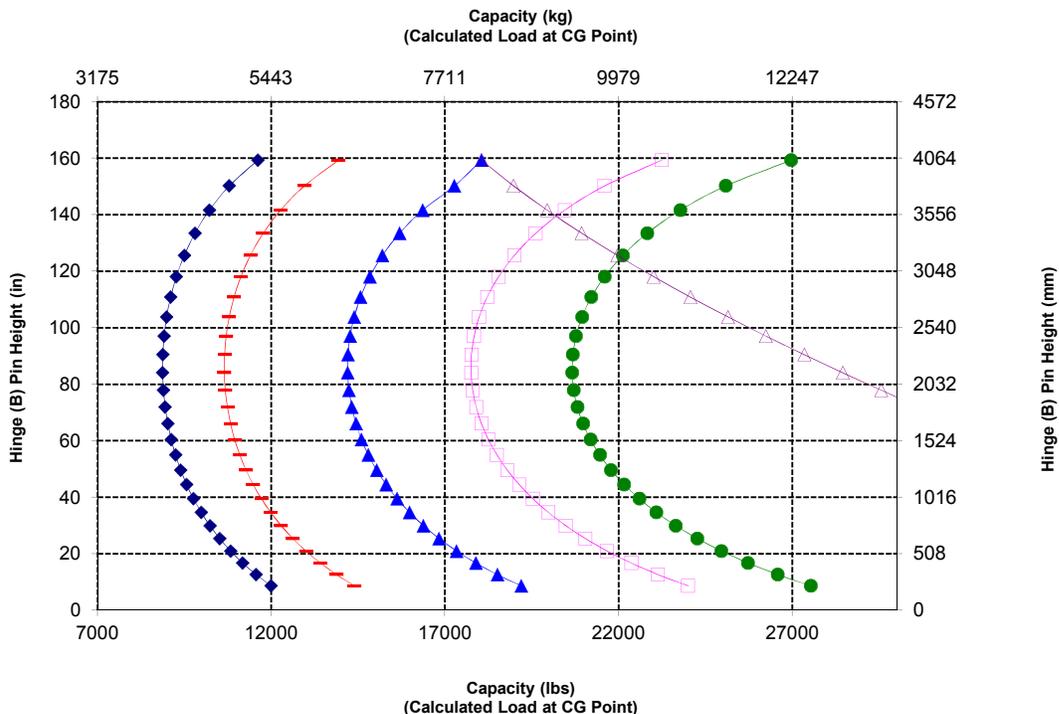
- ◆ Payload (SAE J1197)
- ◆ Payload (CEN EN 474-3 - Rough Terrain)
- ◆ Payload (CEN EN 474-3 - Firm & Level)
- ◆ Static Tipping Load - Articulated
- ◆ Static Tipping Load - Straight
- ◆ Hydraulic Tilt Capacity
- ◆ Hydraulic Lift Capacity

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

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

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

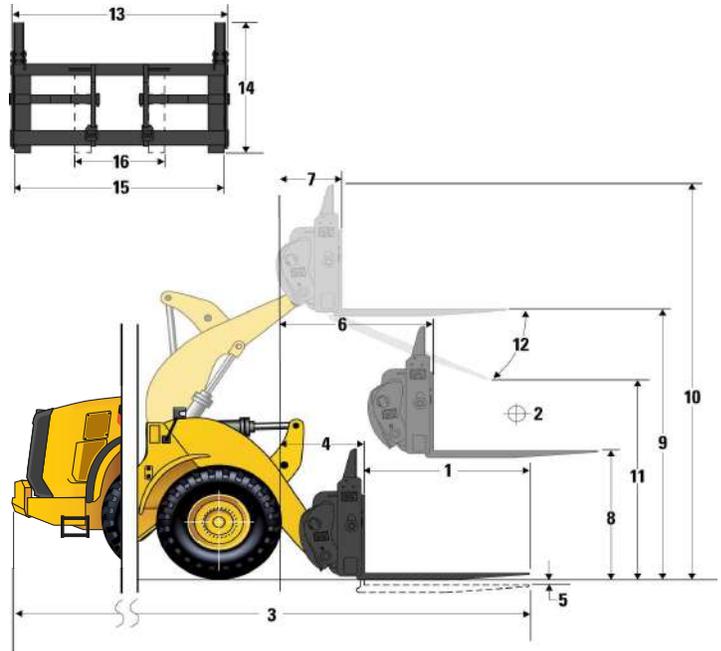
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 \*\*CEN - European Committee for Standardization



# 950M Forestry Specifications

## Log & Lumber Fork – 96" No TC, Fusion

1	Tine Length	mm	2438
		in	96.0
2	Load Center	mm	1219
		in	48.0
	Static Tipping Load - Straight (Forks Level)	kg	8493
		lbs	18719
	Static Tipping Load - Articulated (Forks Level)	kg	7278
		lbs	16041
	Rated Load (SAE J1197 - 50% FTSTL)	kg	3639
		lbs	8020
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	4367
		lbs	9625
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	5822
		lbs	12833
3	Maximum Overall Length	mm	9907
		in	390.0
4	Reach with Forks at Ground Level	mm	1242
		in	48.9
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	21
		in	0.8
6	Reach with Arms Horizontal and Forks Level	mm	1781
		in	70.1
7	Reach with Fork at Maximum Height	mm	1043
		in	41.1
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1887
		in	74.3
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	3848
		in	151.5
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5359
		in	211.0
11	Clearance at Full Lift and Max Dump	mm	1626
		in	64.0
12	Max Discharge Angle from Horizontal	deg	50
13	Overall Carriage Width	mm	2176
		in	85.7
14	Overall Carriage Height	mm	1601
		in	63.0
15	Outside Tine Width (max spread)	mm	2084
		in	82.0
16	Outside Tine Width (min spread)	mm	1002
		in	39.4
	Tine Width (single tine)	mm	180.0
		in	7.1
	Tine Thickness	mm	90.0
		in	3.5
	Tine Capacity	kg	10100
		lbs	22260
	Operating Weight	kg	19898
		lbs	43856



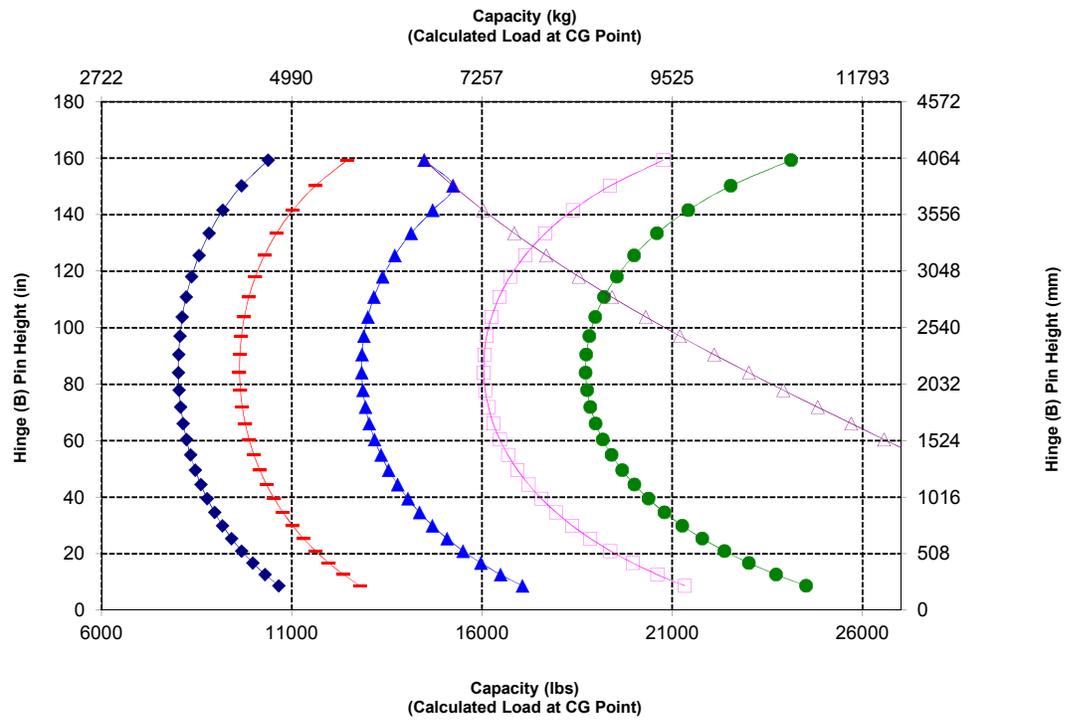
- ◆ Payload (SAE J1197)
- ◆ Payload (CEN EN 474-3 - Rough Terrain)
- ◆ Payload (CEN EN 474-3 - Firm & Level)
- ◆ Static Tipping Load - Articulated
- ◆ Static Tipping Load - Straight
- ◆ Hydraulic Tilt Capacity
- ◆ Hydraulic Lift Capacity

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

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

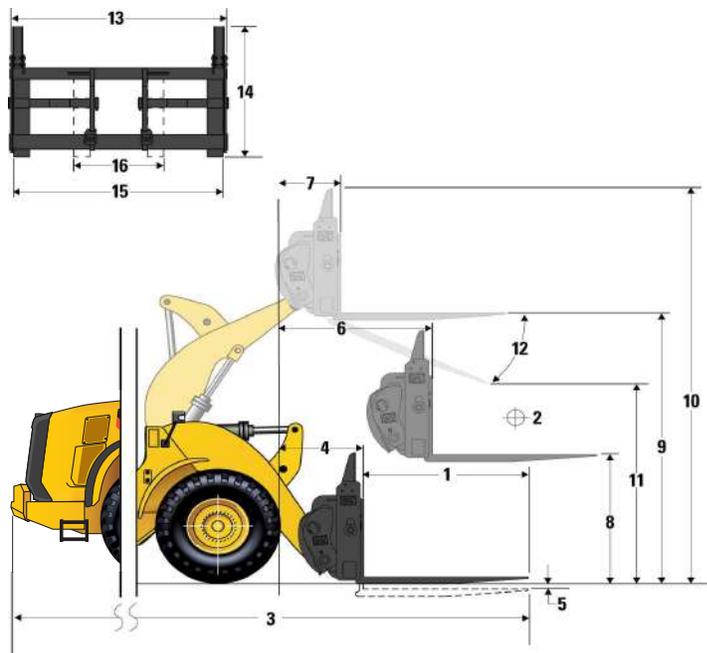
The rated operating load for a loader equipped with a pallet fork is determined by:  
 SAE J1197: 50% of full turn static tipping load or hydraulic limit.  
 CEN EN 474-3: 60% of full turn static tipping load on rough terrain or hydraulic limit.  
 CEN EN 474-3: 80% of full turn static tipping load on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

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 \*\*CEN - European Committee for Standardization



## Log & Lumber Fork – 48" No TC, Fusion

1	Tine Length	mm	1219
		in	48.0
2	Load Center	mm	610
		in	24.0
	Static Tipping Load - Straight (Forks Level)	kg	10604
		lbs	23372
	Static Tipping Load - Articulated (Forks Level)	kg	9146
		lbs	20157
	Rated Load (SAE J1197 - 50% FTSTL)	kg	4573
		lbs	10079
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	5488
		lbs	12094
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	7317
		lbs	16126
3	Maximum Overall Length	mm	8639
		in	340.1
4	Reach with Forks at Ground Level	mm	1193
		in	47.0
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	-4
		in	-0.1
6	Reach with Arms Horizontal and Forks Level	mm	1749
		in	68.9
7	Reach with Fork at Maximum Height	mm	1012
		in	39.8
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1862
		in	73.3
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	3823
		in	150.5
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5362
		in	211.1
11	Clearance at Full Lift and Max Dump	mm	2584
		in	101.7
12	Max Discharge Angle from Horizontal	deg	50
13	Overall Carriage Width	mm	2470
		in	97.3
14	Overall Carriage Height	mm	1603
		in	63.1
15	Outside Tine Width (max spread)	mm	2366
		in	93.1
16	Outside Tine Width (min spread)	mm	1002
		in	39.4
	Tine Width (single tine)	mm	180.0
		in	7.1
	Tine Thickness	mm	65.0
		in	2.6
	Tine Capacity	kg	10500
		lbs	23142
	Operating Weight	kg	19527
		lbs	43038



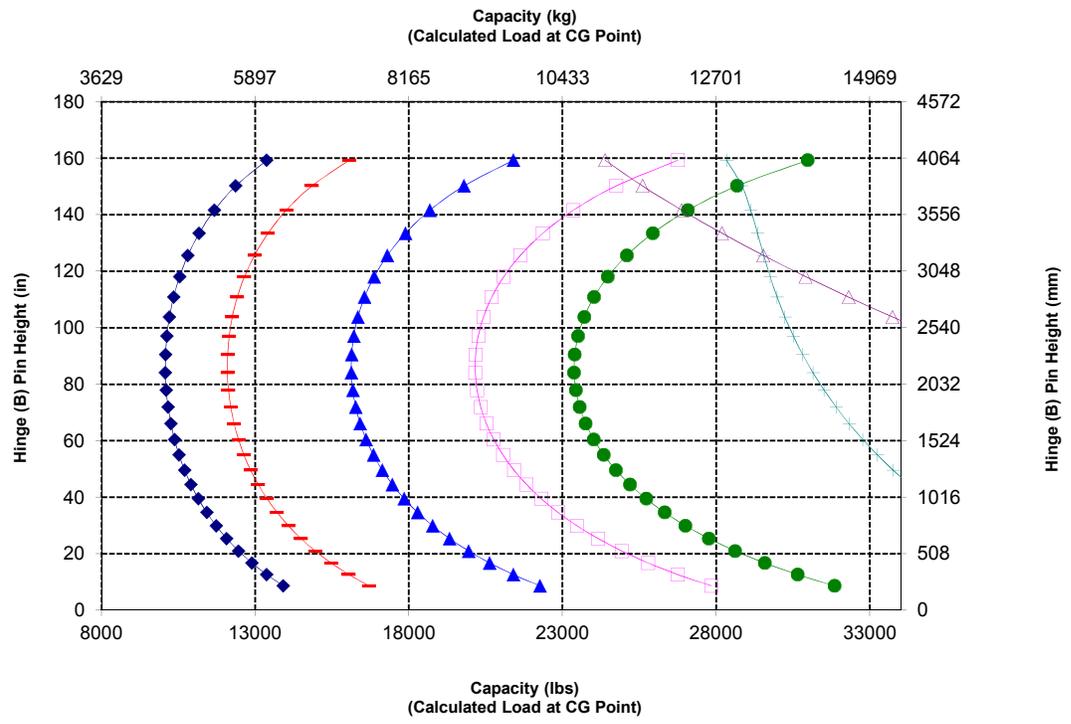
- ◆ Payload (SAE J1197)
- ◆ Payload (CEN EN 474-3 - Rough Terrain)
- ◆ Payload (CEN EN 474-3 - Firm & Level)
- ◆ Static Tipping Load - Articulated
- ◆ Static Tipping Load - Straight
- ◆ Hydraulic Tilt Capacity
- ◆ Hydraulic Lift Capacity

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

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

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

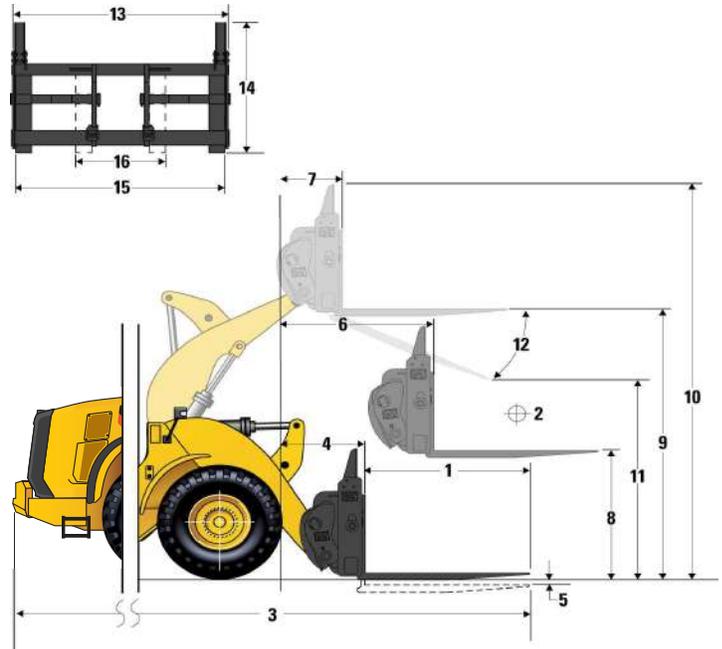
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 \*\*CEN - European Committee for Standardization



# 950M Forestry Specifications

## Log & Lumber Fork – 60" No TC, Fusion

1	Tine Length	mm	1524
		in	60.0
2	Load Center	mm	762
		in	30.0
	Static Tipping Load - Straight (Forks Level)	kg	9869
		lbs	21752
	Static Tipping Load - Articulated (Forks Level)	kg	8487
		lbs	18706
	Rated Load (SAE J1197 - 50% FTSTL)	kg	4244
		lbs	9353
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	5092
		lbs	11224
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	6790
		lbs	14965
3	Maximum Overall Length	mm	8993
		in	354.0
4	Reach with Forks at Ground Level	mm	1242
		in	48.9
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	21
		in	0.8
6	Reach with Arms Horizontal and Forks Level	mm	1780
		in	70.1
7	Reach with Fork at Maximum Height	mm	1043
		in	41.1
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1887
		in	74.3
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	3848
		in	151.5
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5362
		in	211.1
11	Clearance at Full Lift and Max Dump	mm	2327
		in	91.6
12	Max Discharge Angle from Horizontal	deg	50
13	Overall Carriage Width	mm	2470
		in	97.3
14	Overall Carriage Height	mm	1603
		in	63.1
15	Outside Tine Width (max spread)	mm	2366
		in	93.1
16	Outside Tine Width (min spread)	mm	1002
		in	39.4
	Tine Width (single tine)	mm	180.0
		in	7.1
	Tine Thickness	mm	90.0
		in	3.5
	Tine Capacity	kg	15906
		lbs	35057
	Operating Weight	kg	19728
		lbs	43481



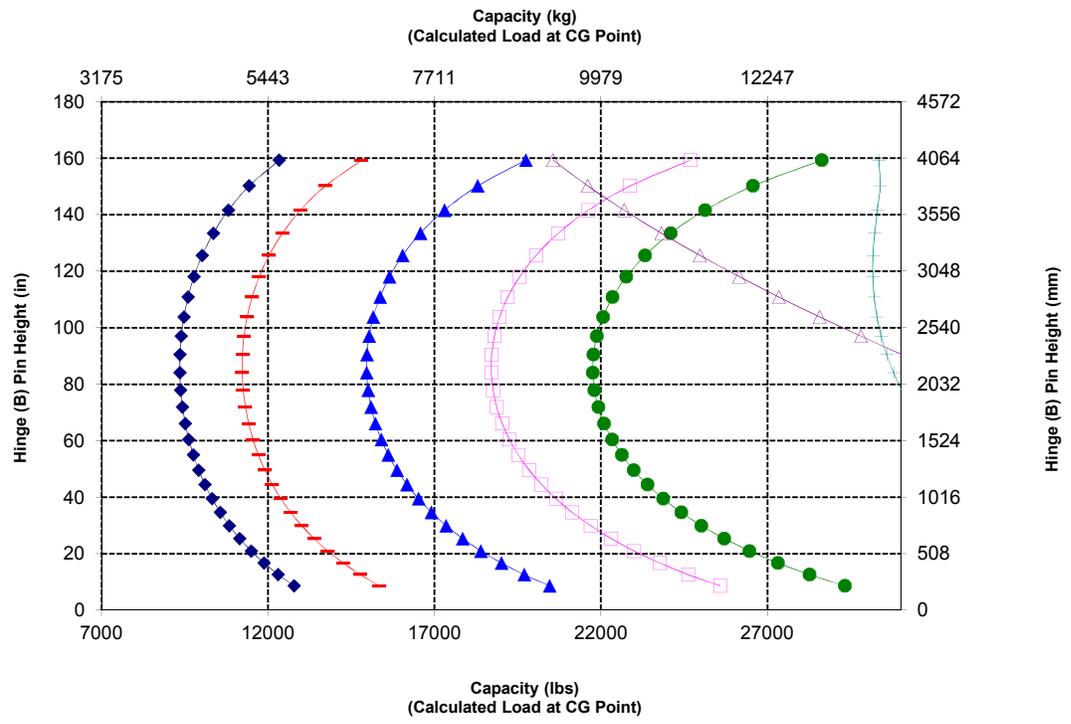
- ◆ Payload (SAE J1197)
- ◆ Payload (CEN EN 474-3 - Rough Terrain)
- ◆ Payload (CEN EN 474-3 - Firm & Level)
- ◆ Static Tipping Load - Articulated
- ◆ Static Tipping Load - Straight
- ◆ Hydraulic Tilt Capacity
- ◆ Hydraulic Lift Capacity

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

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

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

\*SAE - Society of Automotive Engineers  
 \*\*CEN - European Committee for Standardization







## Woodchip Buckets – Pin-On and Fusion

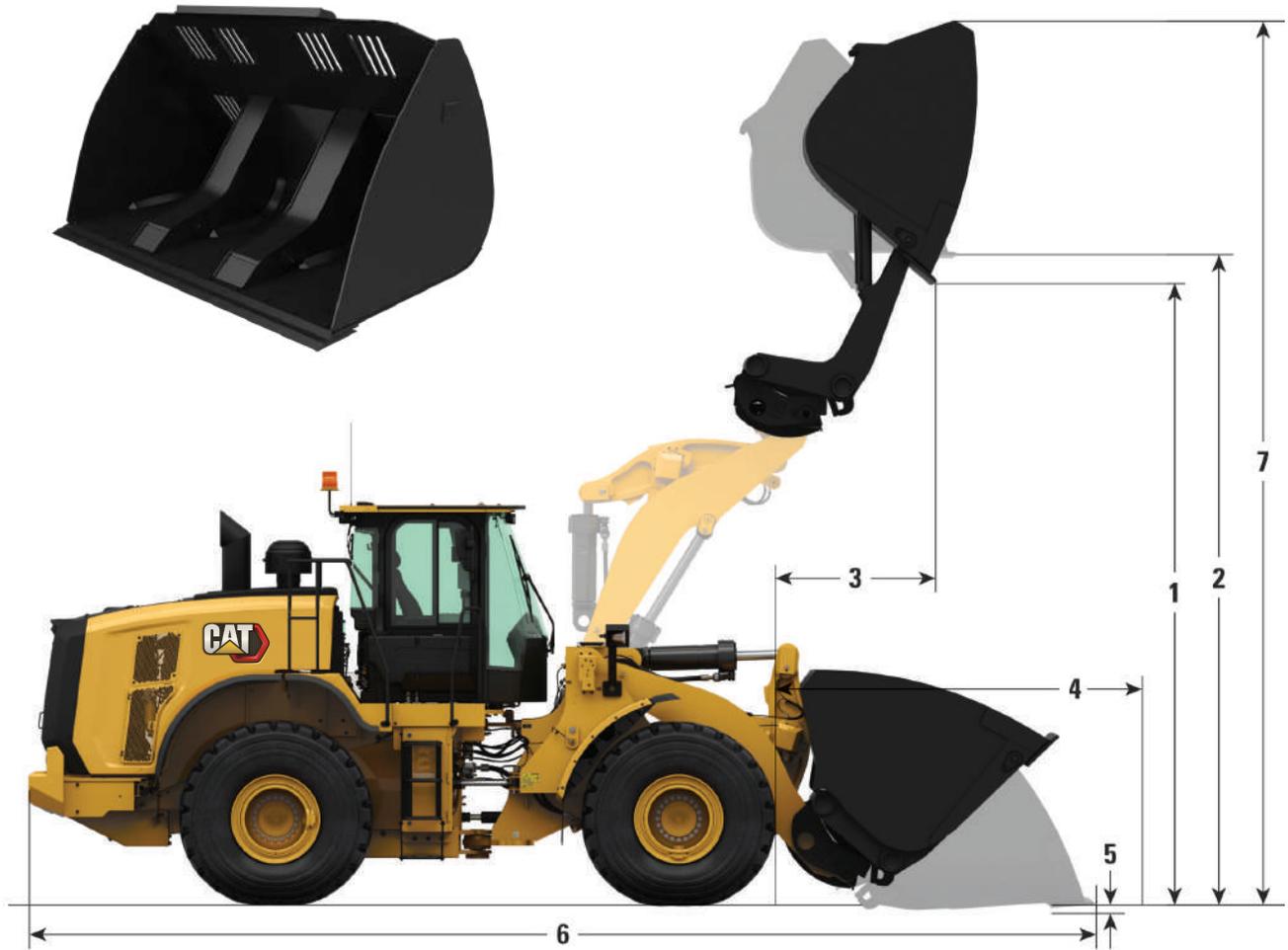


Package	950M Logger				
	Bucket Type		Pin-On	Fusion	
Edge Type		Bolt-On Cutting Edges			
Capacity – Rated	m <sup>3</sup>	9.2	9.9	9.2	9.9
	yd <sup>3</sup>	12.00	13.00	12.00	13.00
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	10.1	10.9	10.1	10.9
	yd <sup>3</sup>	13.25	14.25	13.25	14.25
Width	mm	3330	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, Fusion, or VCE 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			VCE-ISO		
Edge Type		Bolt-On Cutting Edges								
Capacity – Rated	m <sup>3</sup>	6.10	7.60	9.20	6.10	7.60	9.20	6.10	7.60	9.20
	yd <sup>3</sup>	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 <sup>3</sup>	6.70	8.40	10.10	6.70	8.40	10.10	6.70	8.40	10.10
	yd <sup>3</sup>	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"
<b>1</b> 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"
<b>2</b> 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"
<b>3</b> 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"
<b>4</b> 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"
<b>5</b> 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"
<b>6</b> 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"
<b>7</b> 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

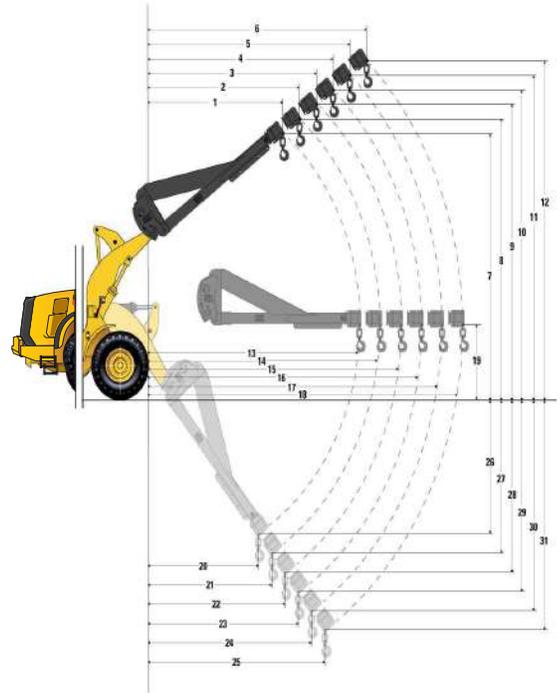
\*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 23.5R25 XHA2 L3 radial tires, full fluids, operator, Logger counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering and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

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

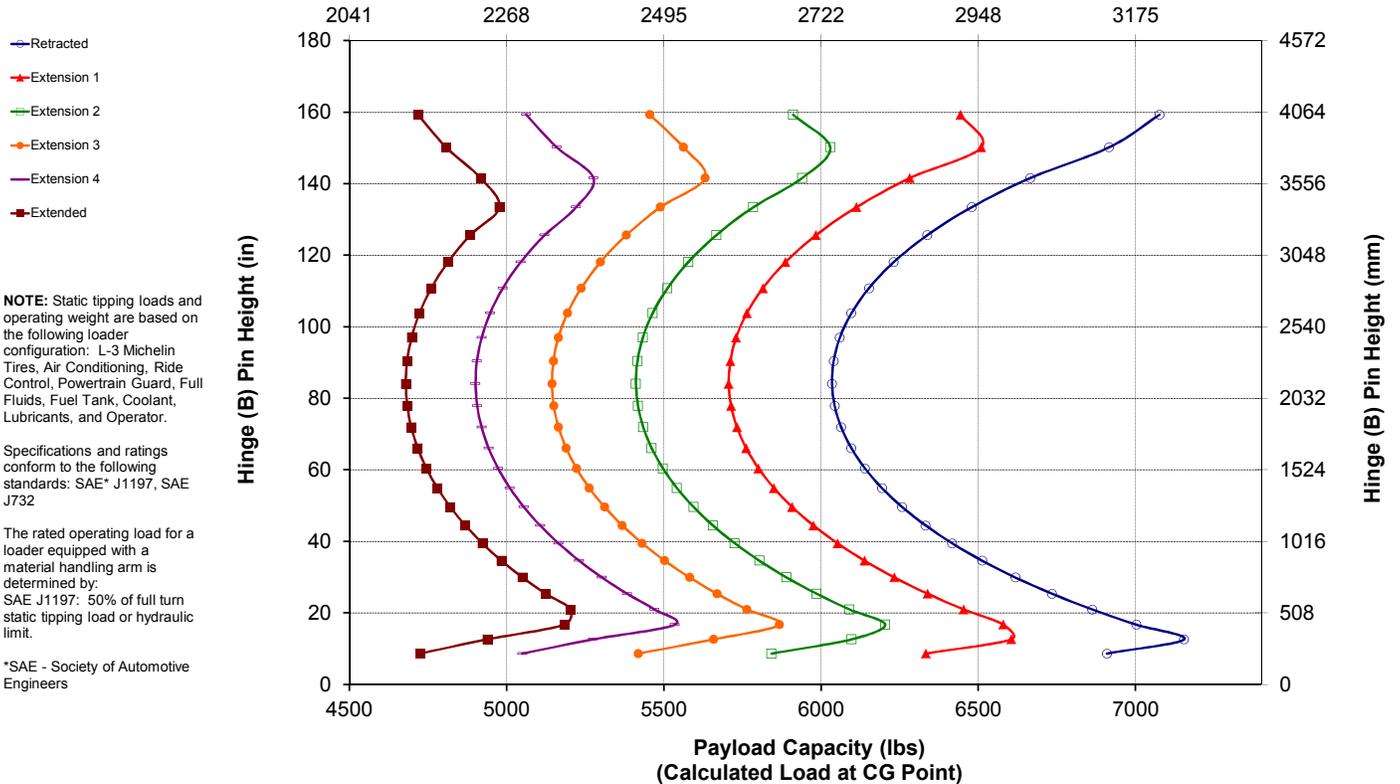
(No Tire Deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

## Material Handling Arm – Fusion

MHA Specifications		Retracted	Extension 1	Extension 2	Extension 3	Extension 4	Extended
Max Lift - Hook Reach (1, 2, 3, 4, 5, 6)	mm	2,270	2,409	2,548	2,687	2,826	2,965
	ft, in	7' 5"	7' 10"	8' 4"	8' 9"	9' 3"	9' 8"
Max Lift - Hook Height (7, 8, 9, 10, 11, 12)	mm	6,873	7,144	7,416	7,687	7,958	8,230
	ft, in	22' 6"	23' 5"	24' 3"	25' 2"	26' 1"	27' 0"
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	13,989	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 Forestry Standard and Optional Equipment

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>POWER TRAIN</b>			<b>OPERATOR ENVIRONMENT</b>		
Axles, ecology drains	✓		Air conditioner, heater, and defroster (auto temp and fan)	✓	
Axles, 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, extreme temperature seals, 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 (Tier 4 Final/Stage V models)	✓		Cab, pressurized and sound suppressed (ROPS/FOPS)	✓	
Economy mode (selectable)	✓		Cab tie-off	✓	
Engine, Cat C7.1 – Tier 3/Stage IIIA equivalent or Tier 4 Final/Stage V	✓		Coat hook (2)	✓	
Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand	✓		Cover, HVAC metallic		✓
Fan, VPF (variable pitch fan), automatic and manual control		✓	Door, remote opening system		✓
Fuel priming pump (electric)	✓		EH controls, SAL (single axis lever) lift and tilt function	✓	
Fuel/water separator	✓		EH controls, joystick lift and tilt – additional integrated roller switches for 3 <sup>rd</sup> and 4 <sup>th</sup> functions		✓
Parking brake, disc and caliper	✓		EH controls, SAL 3 <sup>rd</sup> function – additional roller switch for 4 <sup>th</sup> function		✓
Precleaner, engine air intake	✓		EH parking brake	✓	
Radiator, high debris, wide fin spacing		✓	Filter, carbon fresh air		✓
Switch, transmission neutralizer lockout	✓		Full time rear vision display Work Area Vision System (WAVS)		✓
Torque converter, locking clutch with free wheel stator	✓		Horn, electric	✓	
Transmission, automatic countershaft power shift (5F/3R)	✓		Light, two dome (cab)	✓	
<b>CAT TECHNOLOGY</b>			Mirrors, heated rearview external with integrated spot mirrors		✓
Detect technologies:			Mirrors, rearview external with integrated spot mirrors	✓	
Rear vision camera	✓		Multi-function 18 cm (7 in) color LCD touchscreen 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/USB/MP3 Bluetooth		✓
Payload technologies: Cat Production Measurement 2.0 (Cat PM), Printer, Cat Production Measurement, Aggregate Autodig		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth		✓
Machine security system		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth with Satellite Sirius and XM		✓
			Radio, CB ready		✓
			Radio ready (entertainment) includes antenna, speakers and converter (12V, 10-amp)	✓	
			Receptacles (2), 12V	✓	

(continued on next page)

# 950M Forestry Standard and Optional Equipment

## Standard and Optional Equipment (continued)

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

	Standard	Optional		Standard	Optional
<b>OPERATOR ENVIRONMENT (continued)</b>			<b>ELECTRICAL AND LIGHTING (continued)</b>		
Roof, metallic		✓	Main disconnect switch	✓	
Seat, Cat Comfort (cloth) air suspension	✓		Receptacle start (cables not included)	✓	
Seat belt, 51 mm (2 in) retractable, with indicator	✓		Reversing strobes		✓
Seat belt, 76 mm (3 in) retractable, with indicator		✓	Starter, electric, heavy duty	✓	
Seat, heated air suspension		✓	Starting and charging system (24V)	✓	
Steering, EH joystick, speed sensing with force feedback		✓	Warning amber strobe beacon		✓
Steering, secondary		✓	<b>FLUIDS</b>		
Steering, steering wheel	✓		Premixed extended life coolant with freeze protection to -34°C (-29°F)	✓	
Sun visor, front	✓		Premixed extended life coolant with freeze protection to -50°C (-58°F)		✓
Sun visor, rear		✓	<b>HYDRAULICS</b>		
Viscous mounts	✓		Couplings, Cat O-ring face seal	✓	
Wet-arm wipers/washers front and rear, intermittent front wiper	✓		Hoses, Cat XT	✓	
Windows, rubber mounted		✓	Hydraulic oil cooler (swing out)	✓	
Window, sliding (left and right sides)	✓		Hydraulic system, load sensing	✓	
Windows, with front guard		✓	Oil sampling valves	✓	
Windows, with full guards front, rear and sides		✓	3 <sup>rd</sup> function with Ride Control – standard linkage, high lift linkage, forestry linkage		✓
<b>ELECTRICAL AND LIGHTING</b>			4 <sup>th</sup> function with Ride Control – standard linkage, high lift linkage, forestry linkage		✓
Alarm, back-up	✓		Remote diagnostic pressure taps	✓	
Alternator, 145-amp brushed	✓		Ride control, 2V	✓	
Auxiliary halogen cab-mounted work lights (four additional) or		✓	Steering, load sensing	✓	
Auxiliary front HI LED (two additional) and two additional auxiliary rear LED cab mounted work lights with two LED work lights in the radiator grill and LED front turn signals. Also includes replacement of the standard four halogen cab-mounted work lights with four LED work lights (the standard offering and only roading light available is the halogen roading light)		✓	<b>LINKAGE</b>		
Batteries (2), maintenance free 1,400 CCA	✓		Autolube		✓
External seat belt indicator light		✓	Forestry		✓
Ignition key; start/stop switch	✓		High lift		✓
Lighting system: four halogen work lights (cab mounted), two LED stop, turn, tail lights, two halogen roading lights (with signals), two halogen rear vision lights (hood mounted)	✓		Kickout, lift and tilt, automatic (adjustable in cab)	✓	
			Quick coupler ready		✓
			Z-bar, cast crosstube/tilt lever	✓	
			<b>STARTERS, BATTERIES, AND ALTERNATORS</b>		
			Cold start – 120V		✓
			Cold start – 240V		✓
			<b>WORK TOOLS</b>		
			Forks, logging		✓
			Forks, pallet		✓
			Fusion quick coupler		✓
			Material handling arms		✓
			Performance Series buckets		✓
			Snow products		✓
			VCE quick coupler		✓

(continued on next page)

# 950M Forestry Standard and Optional Equipment

## Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
<b>COMPUTERIZED MONITORING SYSTEM</b>			<b>OTHER STANDARD AND OPTIONAL EQUIPMENT</b>		
With following gauges:	✓		Auto idle shutdown	✓	
Speedometer/tachometer			Cat Autolube System		✓
Digital gear range indicator			Cold weather package: transmission filter bypass, fan pump bypass, jacket water or engine block heater, ether aid ready		✓
Diesel Exhaust Fluid (DEF) level (Tier 4 Final/Stage V models)			Ecology drains for engine, transmission, and hydraulics	✓	
Temperature: engine coolant, hydraulic oil, transmission oil			Fenders, front with mud-flap/rear with extension	✓	
Fuel level			Fenders, roading		✓
With following warning indicators:	✓		Filters: fuel, engine air, engine oil, hydraulic oil, transmission	✓	
Regeneration			Fuel cooler	✓	
Temperature: axle oil, engine intake manifold			Grease zerks	✓	
Pressure: engine oil, fuel pressure hi/low, primary steering oil, service brake oil			Grill, airborne debris	✓	
Battery voltage hi/low			Guard, power train		✓
Engine air filter restriction			Hitch, drawbar with pin	✓	
Hydraulic oil filter restriction			Hood, non-metallic power tilting	✓	
Hydraulic oil low			Platform, window washing		✓
Parking brake			Precleaner, turbine		✓
DEF low level (Tier 4 Final/Stage V models)			Precleaner, trash		✓
Transmission filter bypass			Precleaner rain cap	✓	
			Service centers (electrical and hydraulic)	✓	
			Sight gauges: engine coolant, hydraulic oil, and transmission oil level	✓	
			Toolbox	✓	
			Vandalism protection caplocks	✓	
			<b>OTHER CONFIGURATIONS</b>		
			Industrial and waste handler		✓
			Corrosion resistance		✓
			Forestry		✓
			Steel mill (Tier 3 equivalent only)		✓

# 950M Forestry Specifications

## Recommended Equipment and Work Tools

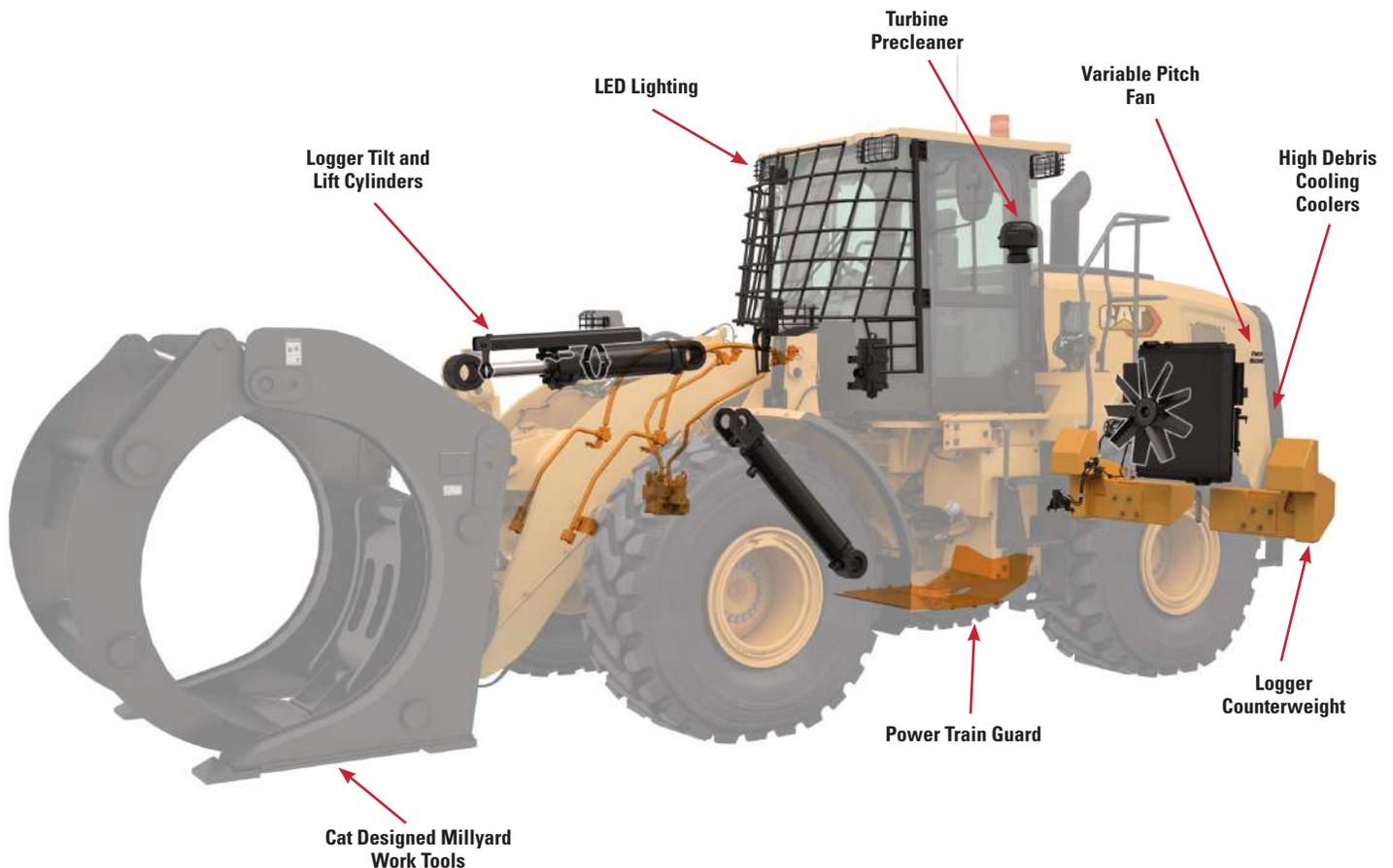
### Recommended Forestry Configuration

- 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 or VCE quick coupler

### Millyard Work Tools

- Sorting grapple forks
- Millyard forks
- Log and lumber forks (84" or 96" carriage; 60", 72", or 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](http://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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