



# 966M

## 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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# 966M Wheel Loader Specifications

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

Engine Model	Cat C9.3	
Maximum Power @ 1,800 rpm		
SAE J1995	230 kW	308 hp
Maximum Power @ 1,800 rpm		
ISO 14396	227 kW	304 hp
Maximum Net Power @ 1,700 rpm		
SAE J1349	207 kW	278 hp
Maximum Net Power @ 1,700 rpm		
ISO 9249	207 kW	278 hp
Peak Gross Torque (1,200 rpm)		
SAE J1995	1600 N·m	1,180 lbf-ft
Peak Gross Torque (1,200 rpm)		
ISO 14396	1581 N·m	1,166 lbf-ft
Maximum Net Torque (1,000 rpm)	1507 N·m	1,112 lbf-ft
Displacement	9.3 L	568 in <sup>3</sup>

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

## Buckets

Bucket Capacities	3.20-7.40 m <sup>3</sup>	4.19-9.68 yd <sup>3</sup>
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## Weight

Operating Weight	23 220 kg	51,176 lb
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- Weight based on a machine configuration with Michelin 26.5R25 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 4.2 m<sup>3</sup> (5.5 yd<sup>3</sup>) general purpose bucket with BOCE

## Operating Specifications

Static Tipping Load – Full 37° Turn		
With Tire Deflection	14 668 kg	32,329 lb
No Tire Deflection	15 822 kg	34,873 lb
Breakout Force	173 kN	38,984 lbf

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

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

Engine Model	Cat C9.3	
Maximum Power @ 1,800 rpm		
SAE J1995	232 kW	311 hp
Maximum Power @ 1,800 rpm		
ISO 14396	229 kW	307 hp
Maximum Net Power @ 1,700 rpm		
SAE J1349	206 kW	276 hp
Maximum Net Power @ 1,700 rpm		
ISO 9249	206 kW	276 hp
Peak Gross Torque (1,200 rpm)		
SAE J1995	1599 N·m	1,179 lbf-ft
Peak Gross Torque (1,200 rpm)		
ISO 14396	1581 N·m	1,166 lbf-ft
Maximum Net Torque (1,000 rpm)	1527 N·m	1,126 lbf-ft
Displacement	9.3 L	568 in <sup>3</sup>

2 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 air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg of refrigerant which has a CO<sub>2</sub> equivalent of 2.288 metric tonnes.

## Transmission

Forward 1	6.5 km/h	4.0 mph
Forward 2	13.0 km/h	8.1 mph
Forward 3	23.5 km/h	14.6 mph
Forward 4	39.5 km/h	24.5 mph
Reverse 1	7.1 km/h	4.4 mph
Reverse 2	14.4 km/h	8.9 mph
Reverse 3	25.9 km/h	16.1 mph
Reverse 4	39.5 km/h	24.5 mph

- Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 826 mm (32.5 in) roll radius.

# 966M Wheel Loader Specifications

## Brakes

Brakes	Brakes meet ISO 3450:2011 standards
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## Hydraulic System

Implement Pump Type	Variable Displacement Piston	
Implement System		
Maximum Pump Output (2,200 rpm)	360 L/min	95 gal/min
Maximum Operating Pressure	31 000 kPa	4,496 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	6.1 Sec.	
Dump, at Maximum Raise	1.4 Sec.	
Lower, Empty, Float Down	2.6 Sec.	
Total	10.1 Sec.	

## Axles

Front	Fixed	
Rear	Oscillating $\pm 13$ degrees	
Maximum Single-Wheel Rise and Fall	502 mm	19.5 in

## 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.

With Cooling Fan Speed at Maximum Value:

Operator Sound Pressure Level (ISO 6396:2008)	70 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	109 dB(A)
Exterior Sound Pressure Level (SAE J88:2013)	76 dB(A)*

\*Distance of 15 m (49.2 ft), moving forward in second gear ratio.

## Service Refill Capacities

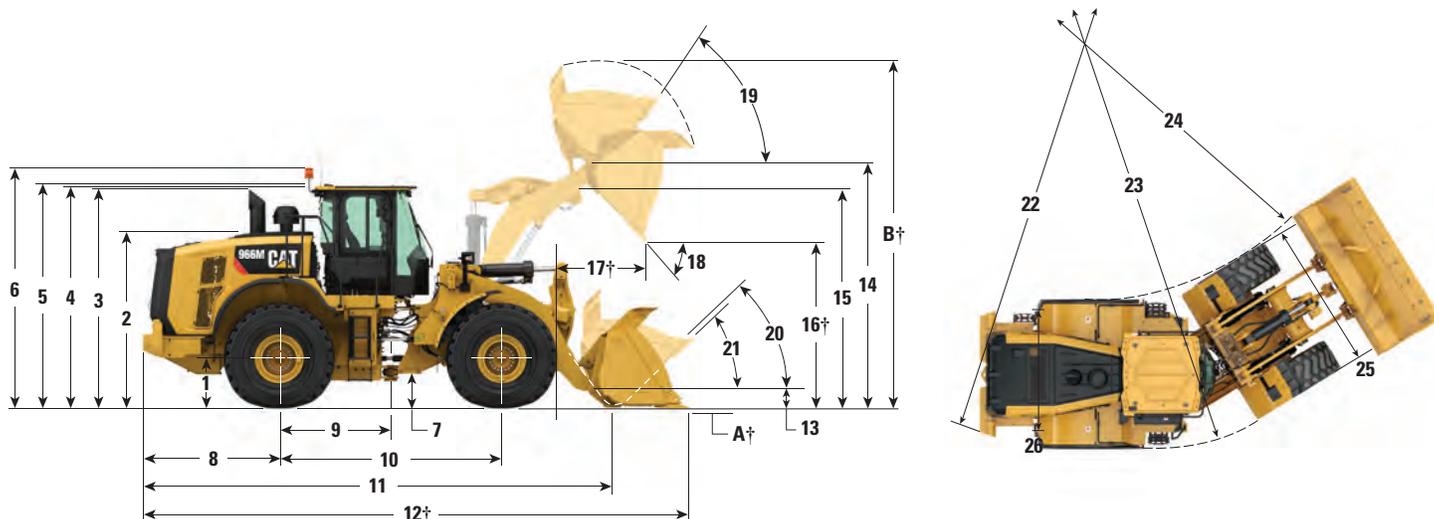
Fuel Tank	302.0 L	79.8 gal
DEF Tank*	16.8 L	4.4 gal
Cooling System	71.6 L	18.9 gal
Crankcase	24.5 L	6.5 gal
Transmission	58.5 L	15.5 gal
Differentials and Final Drives – Front	57.0 L	15.1 gal
Differentials and Final Drives – Rear	57.0 L	15.1 gal
Hydraulic Tank	125 L	33.0 gal

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

# 966M Wheel Loader Specifications

## Dimensions

All dimensions are approximate.



	Standard Lift		High Lift	
1 Height to Axle Centerline	799 mm	2'7"	799 mm	2'7"
2 Height to Top of Hood	2818 mm	9'3"	2818 mm	9'3"
3 Height to Top of Exhaust Pipe	3522 mm	11'7"	3522 mm	11'7"
4 Height to Top of ROPS	3587 mm	11'9"	3587 mm	11'9"
5 Height to Top of Product Link Antenna	3636 mm	11'11"	3636 mm	11'11"
6 Height to Top of Warning Beacon	3859 mm	12'8"	3859 mm	12'8"
7 Ground Clearance	434 mm	1'5"	434 mm	1'5"
8 Center Line of Rear Axle to Edge of Counterweight	2180 mm	7'2"	2500 mm	8'2"
9 Center Line of Rear Axle to Hitch	1775 mm	5'10"	1775 mm	5'10"
10 Wheelbase	3550 mm	11'8"	3550 mm	11'8"
11 Overall Length (without bucket)	7289 mm	23'11"	8109 mm	26'8"
12 Shipping Length (with bucket level on ground)*†	8750 mm	28'9"	9570 mm	31'5"
13 Hinge Pin Height at Carry Height	630 mm	2'1"	778 mm	2'7"
14 Hinge Pin Height at Maximum Lift	4235 mm	13'11"	4793 mm	15'9"
15 Lift Arm Clearance at Maximum Lift	3643 mm	11'11"	4140 mm	13'6"
16 Dump Clearance at Maximum Lift and 45° Discharge*†	2991 mm	9'9"	3549 mm	11'7"
17 Reach at Maximum Lift and 45° Discharge*†	1353 mm	4'5"	1328 mm	4'4"
18 Dump Angle at Maximum Lift and Dump (on stops)*	49 degrees		48 degrees	
19 Rack Back at Maximum Lift*	62 degrees		71 degrees	
20 Rack Back at Carry Height*	50 degrees		49 degrees	
21 Rack Back at Ground*	42 degrees		39 degrees	
22 Clearance Circle (radius) to Counterweight	6804 mm	22'3"	6804 mm	22'3"
23 Clearance Circle (radius) to Outside of Tires	6761 mm	22'2"	6761 mm	22'2"
24 Clearance Circle (radius) to Inside of Tires	3770 mm	12'4"	3770 mm	12'4"
25 Width over Tires (unloaded)	2991 mm	9'10"	2991 mm	9'10"
26 Tread Width	2230 mm	7'4"	2230 mm	7'4"

\*With 4.2 m<sup>3</sup> (5.5 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 26.5R25 XHA2 L3 tires (see Tire Option Chart for other tires).

# 966M Wheel Loader Specifications

## Dimension Changes – Tires

Tire Brand	Michelin	Michelin	Michelin	Bridgestone	Bridgestone	Bridgestone
Tire Size	26.5R25	26.5R25	26.5R25	26.5R25	26.5R25	775/65R29
Tread Type	L-4	L-5	L-5	L-3	L-5	L-3
Tread Pattern	XLDD1	XLDD2	XMINED2	VJT	VSDL	VTS
Width over Tires – Maximum (empty)*	2987 mm 9'10"	2986 mm 9'10"	2970 mm 9'9"	2982 mm 9'9"	2874 mm 9'5"	3080 mm 10'1"
Width over Tires – Maximum (loaded)*	3019 mm 9'11"	3011 mm 9'11"	2994 mm 9'10"	3016 mm 9'11"	2900 mm 9'6"	3101 mm 10'2"
Change in Vertical Dimensions (average of front and rear)	44 mm 1.7"	39 mm 1.5"	53 mm 2.1"	15 mm 0.6"	50 mm 2"	17 mm 0.7"
Change in Horizontal Reach	-36 mm -1.4"	-34 mm -1.3"	-32 mm -1.3"	-3 mm -0.1"	-29 mm -1.1"	-5 mm -0.2"
Change in Clearance Circle (radius) to Outside of Tires	5 mm 0.2"	1 mm 0"	-7 mm -0.3"	3 mm 0.1"	-54 mm -2.1"	46 mm 1.8"
Change in Clearance Circle (radius) to Inside of Tires	-5 mm -0.2"	-1 mm 0"	7 mm 0.3"	-3 mm -0.1"	54 mm 2.1"	-46 mm -1.8"
Change in Operating Weight (without Ballast)	420 kg 926 lb	716 kg 1,578 lb	1068 kg 2,354 lb	164 kg 361 lb	1136 kg 2,504 lb	856 kg 1,886 lb
Change in Static Tipping Load – Straight	303 kg 669 lb	517 kg 1,140 lb	771 kg 1,700 lb	118 kg 261 lb	821 kg 1,809 lb	618 kg 1,362 lb
Change in Static Tipping Load – Articulated	271 kg 596 lb	461 kg 1,017 lb	688 kg 1,516 lb	106 kg 233 lb	732 kg 1,613 lb	551 kg 1,215 lb

\*Width over bulge and includes tire growth.

# 966M 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.

Material Density		kg/m <sup>3</sup>	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500			
Standard Linkage	Pin On	General Purpose	3.80 m <sup>3</sup> (5.00 yd <sup>3</sup> )											4.37 m <sup>3</sup> (5.72 yd <sup>3</sup> )									3.80 m <sup>3</sup> (5.00 yd <sup>3</sup> )	
			4.00 m <sup>3</sup> (5.25 yd <sup>3</sup> )												4.60 m <sup>3</sup> (6.02 yd <sup>3</sup> )									4.00 m <sup>3</sup> (5.25 yd <sup>3</sup> )
			4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )												4.83 m <sup>3</sup> (6.32 yd <sup>3</sup> )									4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )
	Fusion QC	General Purpose	3.80 m <sup>3</sup> (5.00 yd <sup>3</sup> )												4.37 m <sup>3</sup> (5.72 yd <sup>3</sup> )									3.80 m <sup>3</sup> (5.00 yd <sup>3</sup> )
			4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )												4.83 m <sup>3</sup> (6.32 yd <sup>3</sup> )									4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )
			4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )												4.83 m <sup>3</sup> (6.32 yd <sup>3</sup> )									4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )
High Lift Linkage	Pin On	General Purpose	3.80 m <sup>3</sup> (5.00 yd <sup>3</sup> )											4.37 m <sup>3</sup> (5.72 yd <sup>3</sup> )									3.80 m <sup>3</sup> (5.00 yd <sup>3</sup> )	
			4.00 m <sup>3</sup> (5.25 yd <sup>3</sup> )												4.60 m <sup>3</sup> (6.02 yd <sup>3</sup> )									4.00 m <sup>3</sup> (5.25 yd <sup>3</sup> )
			4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )												4.83 m <sup>3</sup> (6.32 yd <sup>3</sup> )									4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )
	Fusion QC	General Purpose	3.80 m <sup>3</sup> (5.00 yd <sup>3</sup> )												4.37 m <sup>3</sup> (5.72 yd <sup>3</sup> )									3.80 m <sup>3</sup> (5.00 yd <sup>3</sup> )
			4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )												4.83 m <sup>3</sup> (6.32 yd <sup>3</sup> )									4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )
			4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )												4.83 m <sup>3</sup> (6.32 yd <sup>3</sup> )									4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )
Aggregate Handler Package	Pin On	General Purpose	3.80 m <sup>3</sup> (5.00 yd <sup>3</sup> )											4.37 m <sup>3</sup> (5.72 yd <sup>3</sup> )									3.80 m <sup>3</sup> (5.00 yd <sup>3</sup> )	
			4.00 m <sup>3</sup> (5.25 yd <sup>3</sup> )												4.60 m <sup>3</sup> (6.02 yd <sup>3</sup> )									4.00 m <sup>3</sup> (5.25 yd <sup>3</sup> )
			4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )												4.83 m <sup>3</sup> (6.32 yd <sup>3</sup> )									4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )
	Fusion QC	General Purpose	3.80 m <sup>3</sup> (5.00 yd <sup>3</sup> )												4.37 m <sup>3</sup> (5.72 yd <sup>3</sup> )									3.80 m <sup>3</sup> (5.00 yd <sup>3</sup> )
			4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )												4.83 m <sup>3</sup> (6.32 yd <sup>3</sup> )									4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )
			4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )												4.83 m <sup>3</sup> (6.32 yd <sup>3</sup> )									4.20 m <sup>3</sup> (5.50 yd <sup>3</sup> )
Material Density		lb/yd <sup>3</sup>	1,180	1,348	1,517	1,685	1,854	2,022	2,191	2,359	2,528	2,696	2,865	3,033	3,202	3,370	3,539	3,707	3,876	4,044	4,213			
Bucket Fill Factors																								
115% 110% 105% 100% 95%																								

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

QC = Quick Coupler

# 966M Wheel Loader Specifications

## Operating Specifications – Buckets

Linkage		Standard Linkage			Standard Linkage			
Bucket Type		General Purpose – Pin On						
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Tips	Bolt-On Cutting Edges	Teeth and Segments	Tips	High Lift Linkage Change**
Capacity – Rated	m <sup>3</sup>	3.80	3.80	3.60	4.00	4.00	3.80	—
	yd <sup>3</sup>	5.00	5.00	4.75	5.25	5.25	5.00	—
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	4.18	4.18	3.96	4.40	4.40	4.18	—
	yd <sup>3</sup>	5.47	5.47	5.18	5.75	5.75	5.47	—
Width	mm	3220	3271	3271	3220	3271	3271	—
	ft/in	10'6"	10'8"	10'8"	10'6"	10'8"	10'8"	—
<b>16</b> † Dump Clearance at Maximum Lift and 45° Discharge	mm	3067	2915	2915	3058	2905	2905	558
	ft/in	10'0"	9'6"	9'6"	10'0"	9'6"	9'6"	1'10"
<b>17</b> † Reach at Maximum Lift and 45° Discharge	mm	1292	1432	1432	1299	1438	1438	-24
	ft/in	4'2"	4'8"	4'8"	4'3"	4'8"	4'8"	-0.9"
Reach at Level Lift Arm and Bucket Level	mm	2704	2908	2908	2715	2920	2920	405
	ft/in	8'10"	9'6"	9'6"	8'10"	9'6"	9'6"	1'4"
<b>A</b> † Digging Depth	mm	124	124	94	124	124	94	-25
	in	4.9"	4.9"	3.7"	4.9"	4.9"	3.7"	-1"
<b>12</b> † Shipping Length (with Bucket)	mm	8651	8876	8876	8663	8888	8888	820
	ft/in	28'5"	29'2"	29'2"	28'6"	29'2"	29'2"	2'8"
<b>B</b> † Overall Height with Bucket at Maximum Lift	mm	5788	5788	5788	5902	5902	5902	558
	ft/in	19'0"	19'0"	19'0"	19'5"	19'5"	19'5"	1'10"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7487	7571	7571	7490	7574	7574	240
	ft/in	24'6"	24'10"	24'10"	24'6"	24'10"	24'10"	9.0"
Static Tipping Load, Straight (With Tire Deflection)*	kg	16 874	16 693	16 891	16 856	16 674	16 908	22
	lb	37,192	36,791	37,229	37,152	36,750	37,266	48
Static Tipping Load, Straight (No Tire Deflection)*	kg	18 045	17 860	18 048	18 037	17 851	18 088	-75
	lb	39,772	39,364	39,777	39,754	39,344	39,867	-165
Static Tipping Load, Articulated (With Tire Deflection)*	kg	14 876	14 693	14 883	14 855	14 671	14 890	-163
	lb	32,788	32,384	32,804	32,741	32,335	32,818	-359
Static Tipping Load, Articulated (No Tire Deflection)*	kg	16 029	15 844	16 023	16 017	15 831	16 052	-225
	lb	35,329	34,921	35,315	35,303	34,893	35,379	-496
Breakout Force	kN	187	185	199	185	183	197	-17
	lbf	42,151	41,781	44,901	41,695	41,326	44,390	-37
Operating Weight*	kg	23 112	23 250	23 087	23 164	23 302	23 139	1612
	lb	50,938	51,242	50,883	51,053	51,357	50,997	3,553

\*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 26.5R25 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.

tIllustration shown with Dimension charts.

# 966M Wheel Loader Specifications

## Operating Specifications – Buckets

Linkage	Standard Linkage				Standard Linkage			High Lift Linkage Change**
	Bucket Type	General Purpose – Pin On			General Purpose – Fusion™ QC			
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Tips	Bolt-On Cutting Edges	Teeth and Segments	Tips	
Capacity – Rated	m <sup>3</sup>	4.20	4.20	4.00	3.80	3.80	3.60	—
	yd <sup>3</sup>	5.50	5.50	5.25	5.00	5.00	4.75	—
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	4.62	4.62	4.40	4.18	4.18	3.96	—
	yd <sup>3</sup>	6.04	6.04	5.75	5.47	5.47	5.18	—
Width	mm	3220	3271	3271	3220	3271	3271	—
	ft/in	10'6"	10'8"	10'8"	10'6"	10'8"	10'8"	—
<b>16†</b> Dump Clearance at Maximum Lift and 45° Discharge	mm	2991	2837	2837	3038	2886	2886	558
	ft/in	9'9"	9'3"	9'3"	9'11"	9'5"	9'5"	1'10"
<b>17†</b> Reach at Maximum Lift and 45° Discharge	mm	1353	1490	1490	1327	1466	1466	-25
	ft/in	4'5"	4'10"	4'10"	4'4"	4'9"	4'9"	-1"
Reach at Level Lift Arm and Bucket Level	mm	2803	3008	3008	2748	2953	2953	404
	ft/in	9'2"	9'10"	9'10"	9'0"	9'8"	9'8"	1'4"
<b>A†</b> Digging Depth	mm	124	124	94	124	124	94	-25
	in	4.9"	4.9"	3.7"	4.9"	4.9"	3.7"	-1"
<b>12†</b> Shipping Length (with Bucket)	mm	8750	8975	8975	8696	8921	8921	820
	ft/in	28'9"	29'6"	29'6"	28'7"	29'4"	29'4"	2'8"
<b>B†</b> Overall Height with Bucket at Maximum Lift	mm	5902	5902	5902	5803	5803	5803	558
	ft/in	19'5"	19'5"	19'5"	19'1"	19'1"	19'1"	1'10"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7511	7597	7597	7494	7580	7580	244
	ft/in	24'7"	24'11"	24'11"	24'7"	24'10"	24'10"	9.0"
Static Tipping Load, Straight (With Tire Deflection)*	kg	16 656	16 473	16 714	16 299	16 118	16 461	51
	lb	36,711	36,307	36,839	35,923	35,524	36,281	112
Static Tipping Load, Straight (No Tire Deflection)*	kg	17 828	17 641	17 886	17 442	17 258	17 617	-44
	lb	39,293	38,881	39,421	38,444	38,038	38,828	-97
Static Tipping Load, Articulated (With Tire Deflection)*	kg	14 668	14 483	14 709	14 323	14 140	14 470	-137
	lb	32,329	31,921	32,420	31,568	31,166	31,892	-302
Static Tipping Load, Articulated (No Tire Deflection)*	kg	15 822	15 636	15 864	15 453	15 269	15 611	-196
	lb	34,873	34,461	34,964	34,059	33,653	34,408	-432
Breakout Force	kN	173	171	184	180	179	192	-16
	lbf	38,984	38,618	41,343	40,632	40,264	43,192	-35
Operating Weight*	kg	23 220	23 358	23 195	23 529	23 667	23 504	1612
	lb	51,176	51,480	51,121	51,857	52,161	51,802	3,553

\*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 26.5R25 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.

QC = Quick Coupler

†Illustration shown with Dimension charts.

# 966M Wheel Loader Specifications

## Operating Specifications – Buckets

Linkage	Standard Linkage				Standard Linkage			High Lift Linkage Change**
	Bucket Type	General Purpose – Fusion QC			Flat Floor – Pin On			
Edge Type			Bolt-On Cutting Edges	Teeth and Segments	Tips	Bolt-On Cutting Edges	Teeth and Segments	Tips
Capacity – Rated	m <sup>3</sup>	4.20	4.20	4.00	4.20	4.20	4.04	—
	yd <sup>3</sup>	5.50	5.50	5.25	5.50	5.50	5.30	—
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	4.62	4.62	4.40	4.62	4.62	4.44	—
	yd <sup>3</sup>	6.04	6.04	5.75	6.04	6.04	5.81	—
Width	mm	3220	3271	3271	3220	3271	3271	—
	ft/in	10'6"	10'8"	10'8"	10'6"	10'8"	10'8"	—
16† Dump Clearance at Maximum Lift and 45° Discharge	mm	2960	2806	2806	2949	2787	2787	559
	ft/in	9'8"	9'2"	9'2"	9'8"	9'1"	9'1"	1'10"
17† Reach at Maximum Lift and 45° Discharge	mm	1398	1536	1536	1245	1372	1372	-24
	ft/in	4'7"	5'0"	5'0"	4'1"	4'6"	4'6"	-0.9"
Reach at Level Lift Arm and Bucket Level	mm	2858	3062	3062	2774	2978	2978	405
	ft/in	9'4"	10'0"	10'0"	9'1"	9'9"	9'9"	1'4"
A† Digging Depth	mm	116	116	86	124	124	94	-25
	in	4.5"	4.5"	3.4"	4.9"	4.9"	3.7"	-1"
12† Shipping Length (with Bucket)	mm	8798	9024	9024	8721	8946	8946	822
	ft/in	28'11"	29'8"	29'8"	28'8"	29'5"	29'5"	2'8"
B† Overall Height with Bucket at Maximum Lift	mm	5960	5960	5960	5901	5901	5901	558
	ft/in	19'7"	19'7"	19'7"	19'5"	19'5"	19'5"	1'10"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7519	7606	7606	7504	7589	7589	247
	ft/in	24'8"	24'11"	24'11"	24'7"	24'10"	24'10"	9.0"
Static Tipping Load, Straight (With Tire Deflection)*	kg	16 031	15 850	16 186	16 580	16 398	16 729	95
	lb	35,334	34,933	35,675	36,544	36,143	36,871	209
Static Tipping Load, Straight (No Tire Deflection)*	kg	17 173	16 988	17 339	17 731	17 546	17 890	34
	lb	37,850	37,442	38,216	39,080	38,672	39,430	75
Static Tipping Load, Articulated (With Tire Deflection)*	kg	14 075	13 892	14 216	14 605	14 421	14 738	-106
	lb	31,022	30,618	31,332	32,190	31,786	32,483	-234
Static Tipping Load, Articulated (No Tire Deflection)*	kg	15 204	15 019	15 355	15 740	15 555	15 883	-158
	lb	33,510	33,102	33,843	34,691	34,283	35,006	-348
Breakout Force	kN	166	164	176	177	175	188	-15
	lbf	37,382	37,023	39,561	39,834	39,468	42,297	-33
Operating Weight*	kg	23 592	23 730	23 567	23 217	23 355	23 192	1612
	lb	51,997	52,301	51,941	51,170	51,474	51,114	3,553

\*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 26.5R25 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.

QC = Quick Coupler

†Illustration shown with Dimension charts.

# 966M Wheel Loader Specifications

## Operating Specifications – Buckets – Aggregate Handler

Package		Aggregate Handler			Aggregate Handler		Aggregate Handler
Bucket Type		General Purpose – Pin On			General Purpose – Fusion QC		Flat Floor – Pin On
Edge Type		Bolt-On Cutting Edges	Bolt-On Cutting Edges	Bolt-On Cutting Edges	Bolt-On Cutting Edges	Bolt-On Cutting Edges	Bolt-On Cutting Edges
Capacity – Rated	m <sup>3</sup>	3.80	4.00	4.20	3.80	4.20	4.20
	yd <sup>3</sup>	5.00	5.25	5.50	5.00	5.50	5.50
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	4.18	4.40	4.62	4.18	4.62	4.62
	yd <sup>3</sup>	5.47	5.75	6.04	5.47	6.04	6.04
Width	mm	3220	3220	3220	3220	3220	3220
	ft/in	10'6"	10'6"	10'6"	10'6"	10'6"	10'6"
<b>16</b> † Dump Clearance at Maximum Lift and 45° Discharge	mm	3067	3058	2991	3038	2960	2967
	ft/in	10'0"	10'0"	9'9"	9'11"	9'8"	9'8"
<b>17</b> † Reach at Maximum Lift and 45° Discharge	mm	1292	1299	1353	1327	1398	1228
	ft/in	4'2"	4'3"	4'5"	4'4"	4'7"	4'0"
Reach at Level Lift Arm and Bucket Level	mm	2704	2715	2803	2748	2858	2749
	ft/in	8'10"	8'10"	9'2"	9'0"	9'4"	9'0"
<b>A</b> † Digging Depth	mm	124	124	124	124	116	124
	in	4.9"	4.9"	4.9"	4.9"	4.5"	4.9"
<b>12</b> † Shipping Length (with Bucket)	mm	8657	8669	8756	8702	8804	8702
	ft/in	28'5"	28'6"	28'9"	28'7"	28'11"	28'7"
<b>B</b> † Overall Height with Bucket at Maximum Lift	mm	5788	5902	5902	5803	5960	5874
	ft/in	19'0"	19'5"	19'5"	19'1"	19'7"	19'4"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7487	7490	7511	7494	7519	7498
	ft/in	24'6"	24'6"	24'7"	24'7"	24'8"	24'7"
Static Tipping Load, Straight (With Tire Deflection)*	kg	18 475	18 459	18 247	17 880	17 595	18 199
	lb	40,719	40,684	40,217	39,408	38,780	40,111
Static Tipping Load, Straight (No Tire Deflection)*	kg	19 797	19 792	19 570	19 171	18 884	19 496
	lb	43,634	43,623	43,134	42,254	41,622	42,969
Static Tipping Load, Articulated (With Tire Deflection)*	kg	16 232	16 212	16 015	15 662	15 399	15 982
	lb	35,777	35,732	35,299	34,519	33,940	35,225
Static Tipping Load, Articulated (No Tire Deflection)*	kg	17 540	17 531	17 325	16 944	16 680	17 266
	lb	38,658	38,638	38,185	37,345	36,762	38,056
Breakout Force	kN	187	185	173	180	166	180
	lbf	42,151	41,695	38,984	40,632	37,382	40,629
Operating Weight*	kg	23 807	23 859	23 915	24 224	24 287	23 869
	lb	52,470	52,584	52,708	53,389	53,528	52,606

\*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 26.5R25 XHA2 L3 radial tires, full fluids, operator, aggregate counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering and sound suppression. If a rock bucket is added, those values are with Michelin 26.5R25 XLDD2 L5 tires.

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

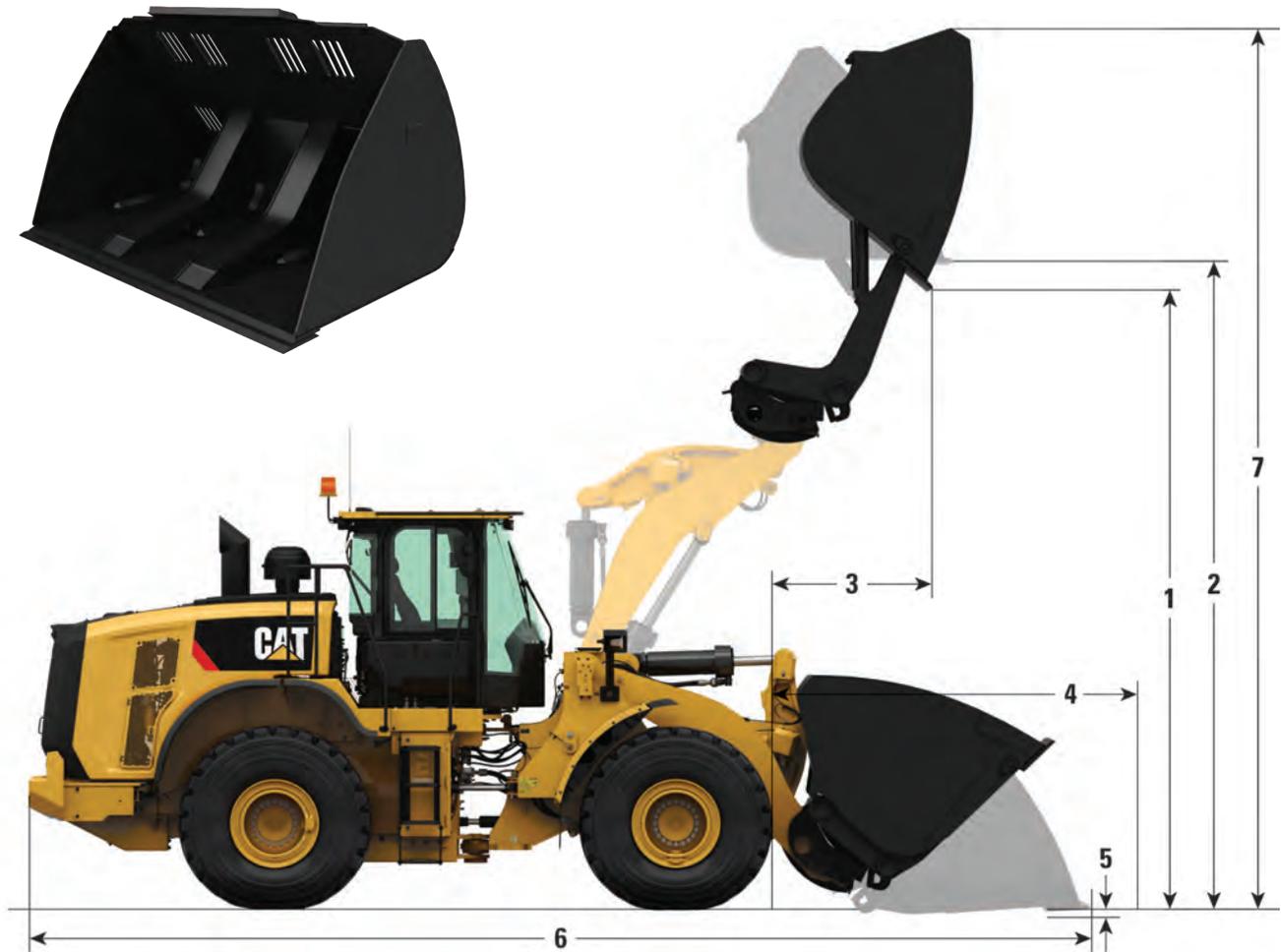
(No Tire Deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

QC = Quick Coupler

†Illustration shown with Dimension charts.

## Light Material High Dump Buckets

All dimensions are approximate.



### Bucket Key Features

- High Dump bucket increases dump height 2.8 m (9'2") for largest size available on 966M
- 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

# 966M Wheel Loader Specifications

## Operating Specifications – Light Material High Dump Bucket – Standard Counterweight

Package		966M Standard								
Bucket Type		Pin On			Fusion			VCE-ISO		
Edge Type		Bolt-On Cutting Edges								
Capacity – Rated	m <sup>3</sup>	7.60	9.20	11.10	7.60	9.20	11.10	7.60	9.20	11.10
	yd <sup>3</sup>	(10.00)	(12.00)	(14.50)	(10.00)	(12.00)	(14.50)	(10.00)	(12.00)	(14.50)
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	8.40	10.10	12.20	8.40	10.10	12.20	8.40	10.10	12.20
	yd <sup>3</sup>	(11.00)	(13.25)	(16.00)	(11.00)	(13.25)	(16.00)	(11.00)	(13.25)	(16.00)
Width	mm	3350	3656	3656	3350	3656	3656	3350	3656	3656
	ft/in	(10' 11")	(11' 11")	(11' 11")	(10' 11")	(11' 11")	(11' 11")	(10' 11")	(11' 11")	(11' 11")
<b>1</b> Dump Clearance at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	4887	4832	4680	4905	4850	4698	5068	5013	4861
	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	5348	5348	5348	5366	5366	5366	5529	5529	5529
	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	1667	1725	1885	1677	1735	1894	1765	1823	1982
	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	3528	3608	3828	3548	3628	3848	3733	3813	4033
	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	94	94	94	94	94	94	94	94	94
	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	9475	9555	9775	9495	9575	9795	9680	9760	9980
	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	7255	7315	7483	7272	7332	7500	7435	7495	7663
	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	7795	7956	8023	7770	7930	7994	7819	7980	8049
	ft/in	25'6"	26'1"	26'3"	25'5"	26'0"	26'2"	25'7"	26'2"	26'4"
Static Tipping Load, Straight (With Tire Deflection)*	kg	14540	14270	13928	14090	13820	13483	13317	13052	12724
	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	15701	15439	15119	15243	14979	14663	14431	14171	13862
	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	12627	12360	12029	12185	11918	11592	11478	11216	10898
	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	13796	13538	13228	13346	13086	12780	12602	12346	12046
	lb	19,106	18,465	17,837	17,771	17,137	16,525	18,048	17,411	16,796
Breakout Force	kN	111	106	93	110	104	92	97	92	82
	lbf	24,747	23,123	20,598	23,678	22,141	19,766	23,430	21,913	19,569
Operating Weight*	kg	24324	24540	24747	24808	25024	25231	24967	25182	25390
	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, 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.

# 966M Wheel Loader Specifications

## Operating Specifications – Light Material High Dump Bucket – Aggregate Counterweight

Package		966M Aggregate								
Bucket Type		Pin On			Fusion			VCE-ISO		
Edge Type		Bolt-On Cutting Edges								
Capacity – Rated	m <sup>3</sup>	7.60	9.20	11.10	7.60	9.20	11.10	7.60	9.20	11.10
	yd <sup>3</sup>	(10.00)	(12.00)	(14.50)	(10.00)	(12.00)	(14.50)	(10.00)	(12.00)	(14.50)
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	8.40	10.10	12.20	8.40	10.10	12.20	8.40	10.10	12.20
	yd <sup>3</sup>	(11.00)	(13.25)	(16.00)	(11.00)	(13.25)	(16.00)	(11.00)	(13.25)	(16.00)
Width	mm	3350	3656	3656	3350	3656	3656	3350	3656	3656
	ft/in	(10' 11")	(11' 11")	(11' 11")	(10' 11")	(11' 11")	(11' 11")	(10' 11")	(11' 11")	(11' 11")
<b>1</b> Dump Clearance at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	4887	4832	4680	4905	4850	4698	5068	5013	4861
	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	5348	5348	5348	5366	5366	5366	5529	5529	5529
	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	1667	1725	1885	1677	1735	1894	1765	1823	1982
	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	3528	3608	3828	3548	3628	3848	3733	3813	4033
	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	94	94	94	94	94	94	94	94	94
	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	9523	9603	9823	9543	9623	9843	9728	10028	10028
	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	7255	7315	7483	7272	7332	7500	7435	7663	7663
	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	7795	7956	8023	7770	7930	7994	7819	7980	8049
	ft/in	25'6"	26'1"	26'3"	25'5"	26'0"	26'2"	25'7"	26'2"	26'4"
Static Tipping Load, Straight (With Tire Deflection)*	kg	16049	15775	15420	15593	15318	14969	14765	14157	14157
	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	17355	17091	16762	16891	16624	16300	16020	15441	15441
	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	13901	13630	13288	13454	13183	12845	12700	12106	12106
	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	15223	14962	14645	14767	14505	14191	13972	13407	13407
	lb	19,106	18,465	17,837	17,771	17,137	16,525	18,048	17,411	16,796
Breakout Force	kN	111	106	93	110	104	92	97	82	82
	lbf	24,747	23,123	20,598	23,678	22,141	19,766	23,430	21,913	19,569
Operating Weight*	kg	25019	25235	25442	25503	25719	25926	25662	26085	26085
	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, 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.

# 966M Wheel Loader Specifications

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

Package		966M High Lift								
Bucket Type		Pin On			Fusion			VCE-ISO		
Edge Type		Bolt-On Cutting Edges								
Capacity – Rated	m <sup>3</sup>	7.60	9.20	11.10	7.60	9.20	11.10	7.60	9.20	11.10
	yd <sup>3</sup>	(10.00)	(12.00)	(14.50)	(10.00)	(12.00)	(14.50)	(10.00)	(12.00)	(14.50)
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	8.40	10.10	12.20	8.40	10.10	12.20	8.40	10.10	12.20
	yd <sup>3</sup>	(11.00)	(13.25)	(16.00)	(11.00)	(13.25)	(16.00)	(11.00)	(13.25)	(16.00)
Width	mm	3350	3656	3656	3350	3656	3656	3350	3656	3656
	ft/in	(10' 11")	(11' 11")	(11' 11")	(10' 11")	(11' 11")	(11' 11")	(10' 11")	(11' 11")	(11' 11")
<b>1</b> Dump Clearance at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	5638	5592	5468	5656	5611	5487	5831	5786	5662
	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	6022	6022	6022	6041	6041	6041	6216	6216	6216
	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	1522	1588	1769	1529	1595	1776	1589	1655	1837
	ft/in	6'2"	6'8"	6'1"	6'4"	6'9"	6'1"	6'4"	6'9"	6'9"
<b>4</b> Reach at Level Lift Arm and Bucket Level	mm	3932	4012	4232	3952	4032	4252	4137	4217	4437
	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	69	69	69	69	69	69	69	69	69
	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	10295	10375	10595	10315	10395	10615	10500	10580	10800
	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	7929	7989	8157	7948	8008	8176	8123	8183	8351
	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	8063	8223	8300	8037	8196	8270	8096	8256	8334
	ft/in	26'5"	26'11"	27'2"	26'4"	26'10"	27'1"	26'6"	27'1"	27'4"
Static Tipping Load, Straight (With Tire Deflection)*	kg	14895	14648	14362	14438	14190	13907	13776	13531	13252
	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	16010	15772	15515	15542	15302	15046	14861	14623	14368
	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	12783	12537	12255	12333	12085	11807	11728	11484	11210
	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	13921	13684	13430	13459	13220	12968	12837	12600	12349
	lb	19,106	18,465	17,837	17,771	17,137	16,525	18,048	17,411	16,796
Breakout Force	kN	101	96	85	100	95	84	88	84	74
	lbf	24,747	23,123	20,598	23,678	22,141	19,766	23,430	21,913	19,569
Operating Weight*	kg	25936	26152	26359	26420	26636	26843	26579	26794	27002
	lb	46,273	46,778	47,159	47,520	48,027	48,406	47,033	47,540	47,922

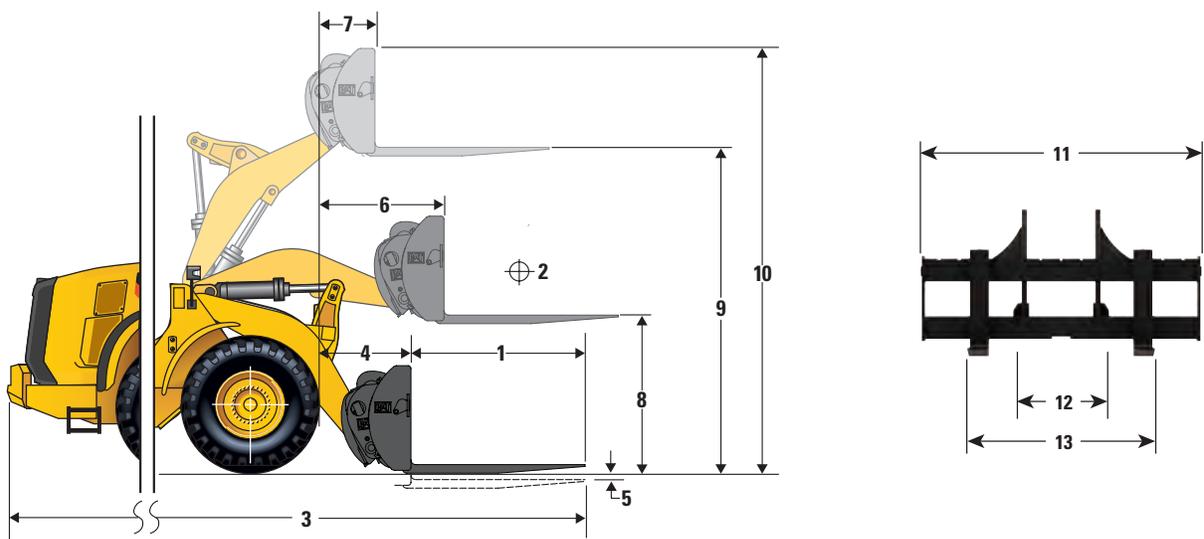
\*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 26.5R25 XHA2 L3 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering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

# 966M Wheel Loader Specifications

## Pallet and Construction Forks



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	9256	30' 4"	9562	31' 4"
<b>4</b> Reach at Ground	1136	3' 9"	1136	3' 9"
<b>5</b> Dig Depth	-111	-4"	-111	-4"
<b>6</b> Reach with Level Arm	1697	5' 7"	1697	5' 7"
<b>7</b> Reach at Full Lift	829	2' 9"	829	2' 9"
<b>8</b> Clearance with Level Arm	1856	6' 1"	1856	6' 1"
<b>9</b> Clearance at Full Lift	3939	12' 11"	3939	12' 11"
<b>10</b> Overall Height	4161	13' 8"	4161	13' 8"
<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*	12245	27,000	11668	25,728
Tipping Load – Full Turn*	10863	23,953	10346	22,813
Operating Weight	22248	49,057	22295	49,160
Rated Load % of Full Turn Tip:				
50% of Tip**	5431	11,975	5173	11,406
60% of Tip (rough terrain)***	6518	14,372	6207	13,686
80% of Tip (firm and level)***	8656	19,086	7618	16,798

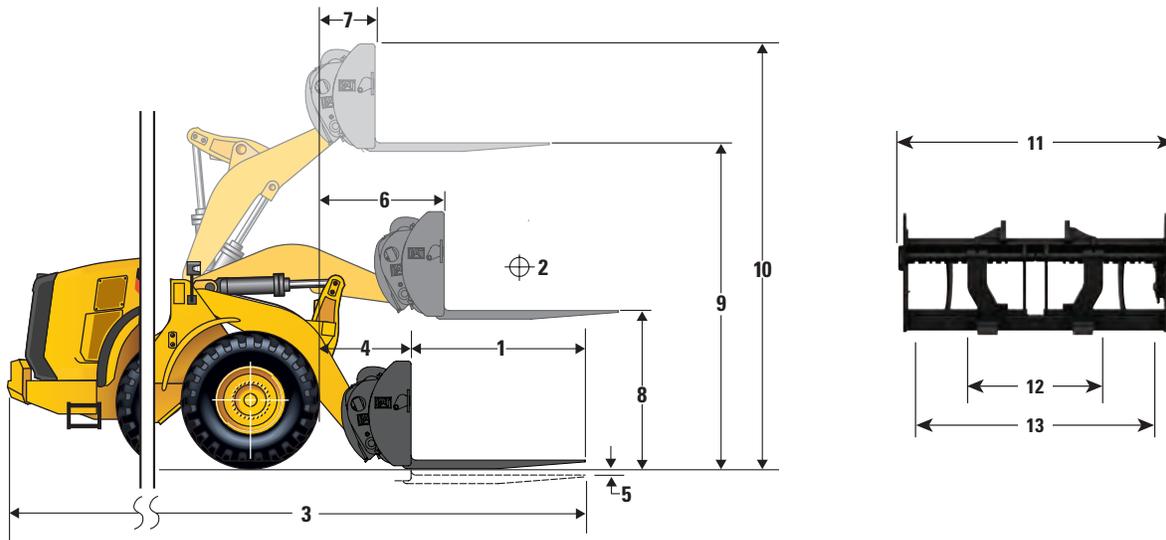
\*ISO 14397-1:2007

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

\*\*\*EN474-3 – 80% of full turn static tipping load on firm and level ground or hydraulic limit.

# 966M 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	8903	29' 3"	9226	30' 3"	9531	31' 3"	9836	32' 3"	10140	33' 3"
<b>4</b> Reach at Ground	1087	3' 7"	1106	3' 7"	1106	3' 7"	1106	3' 7"	1106	3' 7"
<b>5</b> Dig Depth	-7	-0.9"	-7	-0.9"	-7	-0.9"	-7	-0.9"	-7	-0.9"
<b>6</b> Reach with Level Arm	1688	5' 6"	1688	5' 6"	1688	5' 6"	1688	5' 6"	1688	5' 6"
<b>7</b> Reach at Full Lift	821	2' 8"	821	2' 8"	821	2' 8"	821	2' 8"	821	2' 8"
<b>8</b> Clearance with Level Arm	1960	6' 5"	1960	6' 5"	1960	6' 5"	1960	6' 5"	1960	6' 5"
<b>9</b> Clearance at Full Lift	4043	13' 3"	4043	13' 3"	4043	13' 3"	4043	13' 3"	4043	13' 3"
<b>10</b> Overall Height	5083	16' 8"	5083	16' 8"	5083	16' 8"	5083	16' 8"	5083	16' 8"
<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)	22200	48,951	17800	39,249	14800	32,634	12700	28,004	11300	24,917
Tipping Load – Straight*	12620	27,827	11924	26,292	11345	25,016	10807	23,829	10310	22,734
Tipping Load – Full Turn*	11168	24,625	10532	23,223	10013	22,079	9531	21,016	9085	20,032
Operating Weight	22557	49,738	22621	49,879	22683	50,016	22746	50,155	22808	50,292
Rated Load % of Full Turn Tip:										
50% of Tip**	5584	12,313	5266	11,612	5007	11,040	4766	10,509	4542	10,015
60% of Tip (rough terrain)***	6701	14,776	6319	13,933	6008	13,248	5719	12,610	5451	12,019
80% of Tip (firm and level)***	8934	19,699	8426	18,579	7807	17,214	6937	15,296	6222	13,720

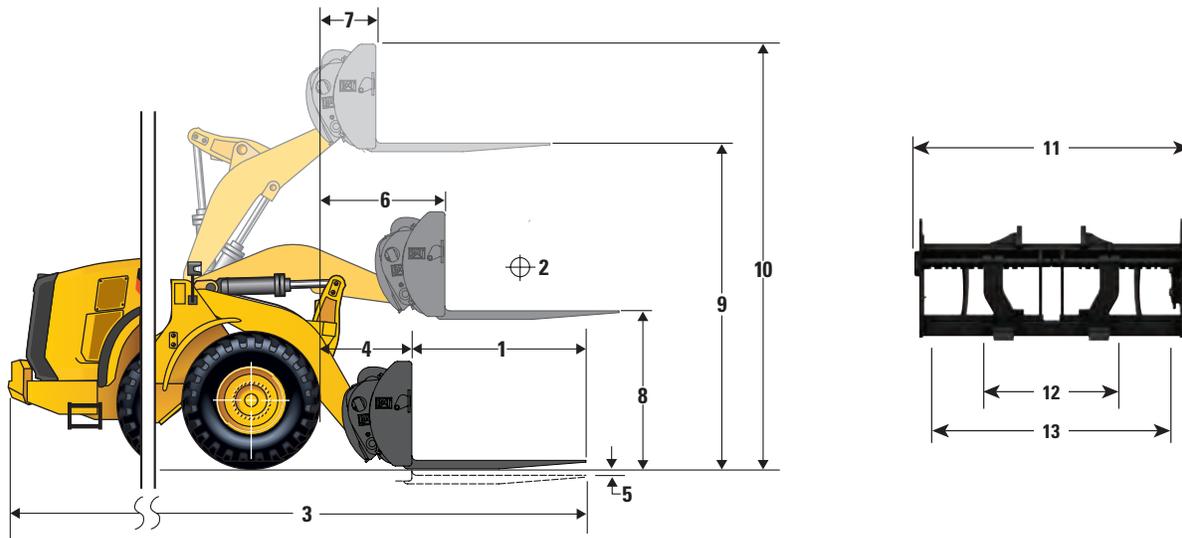
\*ISO 14397-1:2007

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

\*\*\*EN474-3 – 80% of full turn static tipping load on firm and level ground or hydraulic limit.

# 966M 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	8903	29' 3"	9226	30' 3"	9531	31' 3"	9836	32' 3"	10140	33' 3"
<b>4</b> Reach at Ground	1087	3' 7"	1087	3' 7"	1087	3' 7"	1087	3' 7"	1087	3' 7"
<b>5</b> Dig Depth	-7	-0.9"	-7	-0.9"	-7	-0.9"	-7	-0.9"	-7	-0.9"
<b>6</b> Reach with Level Arm	1688	5' 6"	1688	5' 6"	1688	5' 6"	1688	5' 6"	1688	5' 6"
<b>7</b> Reach at Full Lift	821	2' 8"	821	2' 8"	821	2' 8"	821	2' 8"	821	2' 8"
<b>8</b> Clearance with Level Arm	1960	6' 5"	1960	6' 5"	1960	6' 5"	1960	6' 5"	1960	6' 5"
<b>9</b> Clearance at Full Lift	4043	13' 3"	4043	13' 3"	4043	13' 3"	4043	13' 3"	4043	13' 3"
<b>10</b> Overall Height	5083	16' 8"	5083	16' 8"	5083	16' 8"	5083	16' 8"	5083	16' 8"
<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)	22200	48,951	17800	39,249	14800	32,634	12700	28,004	11300	24,917
Tipping Load – Straight*	12579	27,737	11888	26,213	11310	24,939	10775	23,759	10278	22,663
Tipping Load – Full Turn*	11128	24,537	10497	23,146	9979	22,004	9499	20,945	9053	19,962
Operating Weight	22610	49,855	22671	49,990	22733	50,126	22795	50,263	22858	50,402
Rated Load % of Full Turn Tip:										
50% of Tip**	5564	12,269	5248	11,572	4989	11,001	4749	10,472	4526	9,980
60% of Tip (rough terrain)***	6677	14,723	6298	13,887	5987	13,201	5699	12,566	5432	11,978
80% of Tip (firm and level)***	8902	19,629	8397	18,515	7799	17,197	6930	15,281	6215	13,704

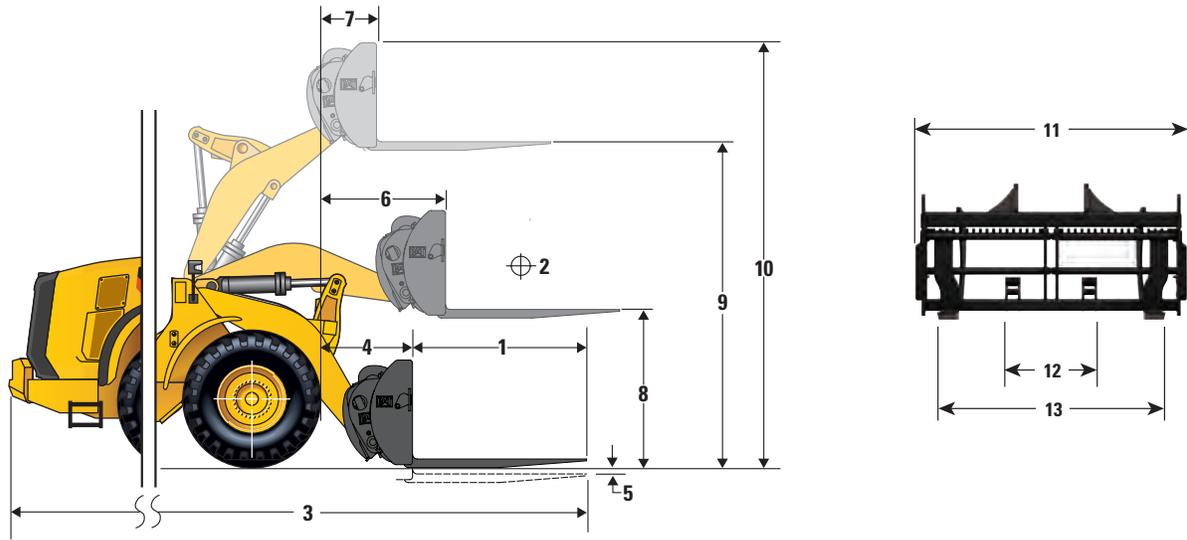
\*ISO 14397-1:2007

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

\*\*\*EN474-3 – 80% of full turn static tipping load on firm and level ground or hydraulic limit.

# 966M 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	8827	28' 9"	9065	29' 9"	9437	30' 9"
<b>4</b> Reach at Ground	1012	3' 4"	1238	3' 4"	1012	3' 4"
<b>5</b> Dig Depth	-93	-3.7"	-93	-3.7"	-93	-3.7"
<b>6</b> Reach with Level Arm	1586	5' 2"	1281	5' 2"	1585	5' 2"
<b>7</b> Reach at Full Lift	718	2' 4"	413	2' 4"	718	2' 4"
<b>8</b> Clearance with Level Arm	1873	6' 2"	1873	6' 2"	1873	6' 2"
<b>9</b> Clearance at Full Lift	3957	12' 12"	3957	12' 12"	3957	12' 12"
<b>10</b> Overall Height	5025	16' 6"	5025	16' 6"	5025	16' 6"
<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*	13245	25,238	12761	24,004	12154	22,872
Tipping Load – Full Turn*	11925	21,792	11332	20,718	10789	19,730
Operating Weight	22096	43,427	22134	43,511	22171	43,593
Rated Load % of Full Turn Tip:						
50% of Tip**	5963	10,897	5666	10,359	5394	9,865
60% of Tip (rough terrain)***	7155	13,076	6799	12,430	6473	11,839
80% of Tip (firm and level)***	9540	17,435	9066	16,573	8292	15,783

\*ISO 14397-1:2007

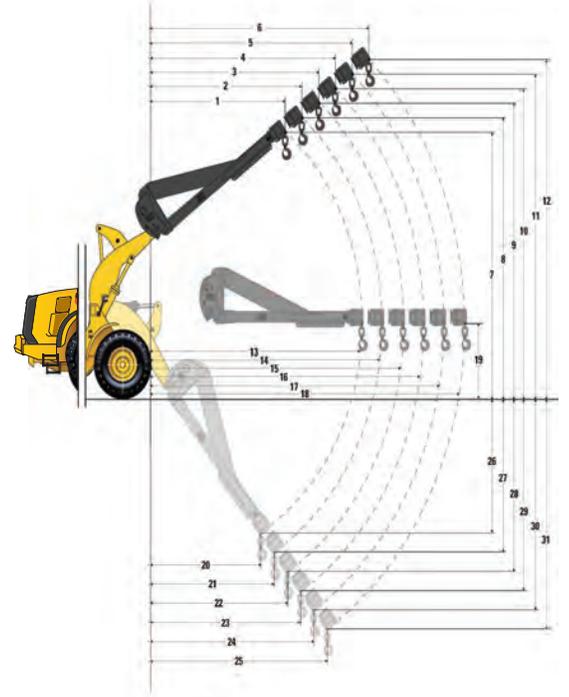
\*\*SAE J1197 – 50% of full turn static tipping load or hydraulic limit.

\*\*\*EN474-3 – 80% of full turn static tipping load on firm and level ground or hydraulic limit.

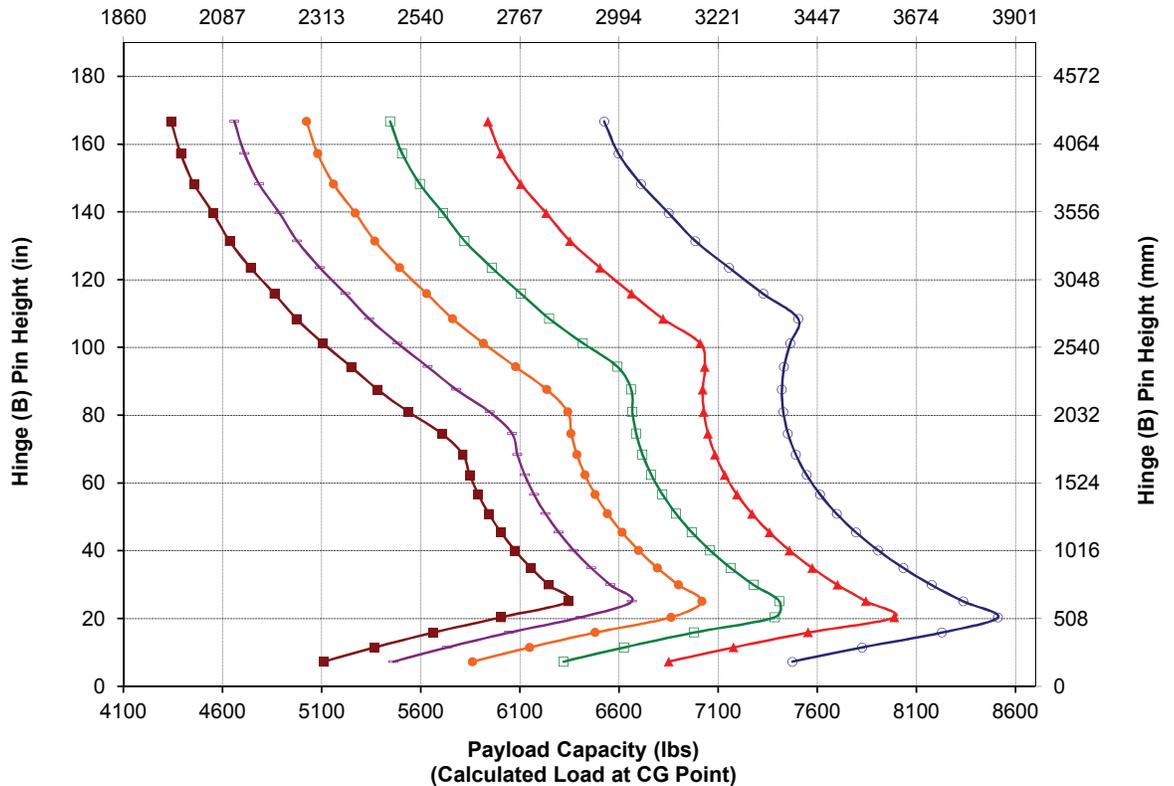
# 966M Wheel Loader Specifications

## 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	1,826	1,939	2,052	2,165	2,278	2,391
	ft, in	5' 11"	6' 4"	6' 8"	7' 1"	7' 5"	7' 10"
Max Lift - Hook Height (7, 8, 9, 10, 11, 12)	mm	7,208	7,491	7,774	8,057	8,340	8,623
	ft, in	23' 7"	24' 6"	25' 6"	26' 5"	27' 4"	28' 3"
Level - Hook Reach (13, 14, 15, 16, 17, 18)	mm	4,556	4,861	5,165	5,470	5,775	6,080
	ft, in	14' 11"	15' 11"	16' 11"	17' 11"	18' 11"	19' 11"
Level - Hook Height (19)	mm	1,927	1,927	1,927	1,927	1,927	1,927
	ft, in	6' 3.8"	6' 3.8"	6' 3.8"	6' 3.8"	6' 3.8"	6' 3.8"
Min Lift - Hook Reach (20, 21, 22, 23, 24, 25)	mm	1,723	1,855	1,986	2,117	2,248	2,380
	ft, in	5' 7"	6' 1"	6' 6"	6' 11"	7' 4"	7' 9"
Min Lift - Hook Height (26, 27, 28, 29, 30, 31)	mm	(2,881)	(3,156)	(3,431)	(3,706)	(3,981)	(4,256)
	ft, in	-9' 6"	-10' 7"	-11' 8"	-12' 10"	-13' 11"	-13' 0"
Static Tipping Load, Straight	kg	7,601	7,191	6,822	6,489	6,186	5,909
	lb	16,752	15,849	15,037	14,302	13,633	13,023
Static Tipping Load, Articulated	kg	6,755	6,390	6,062	5,765	5,495	5,248
	lb	14,888	14,084	13,361	12,706	12,111	11,568
Operating Weight	kg	22,006	22,006	22,006	22,006	22,006	22,006
	lb	48,502	48,502	48,502	48,502	48,502	48,502



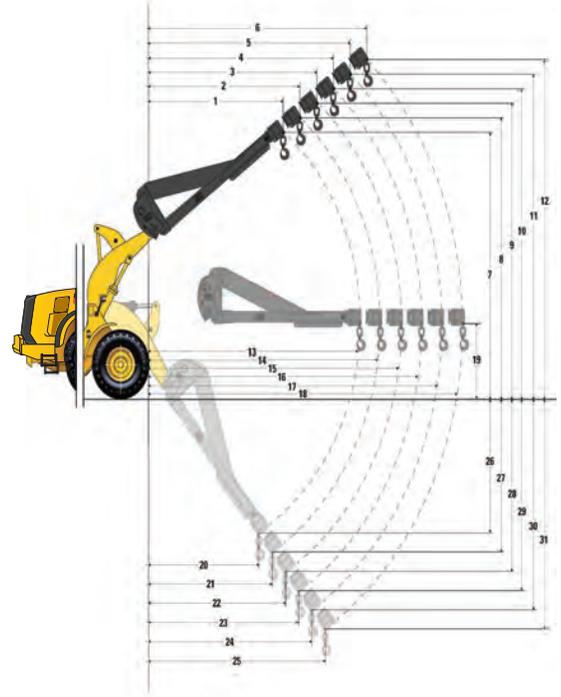
**Payload Capacity (kg)  
(Calculated Load at CG Point)**



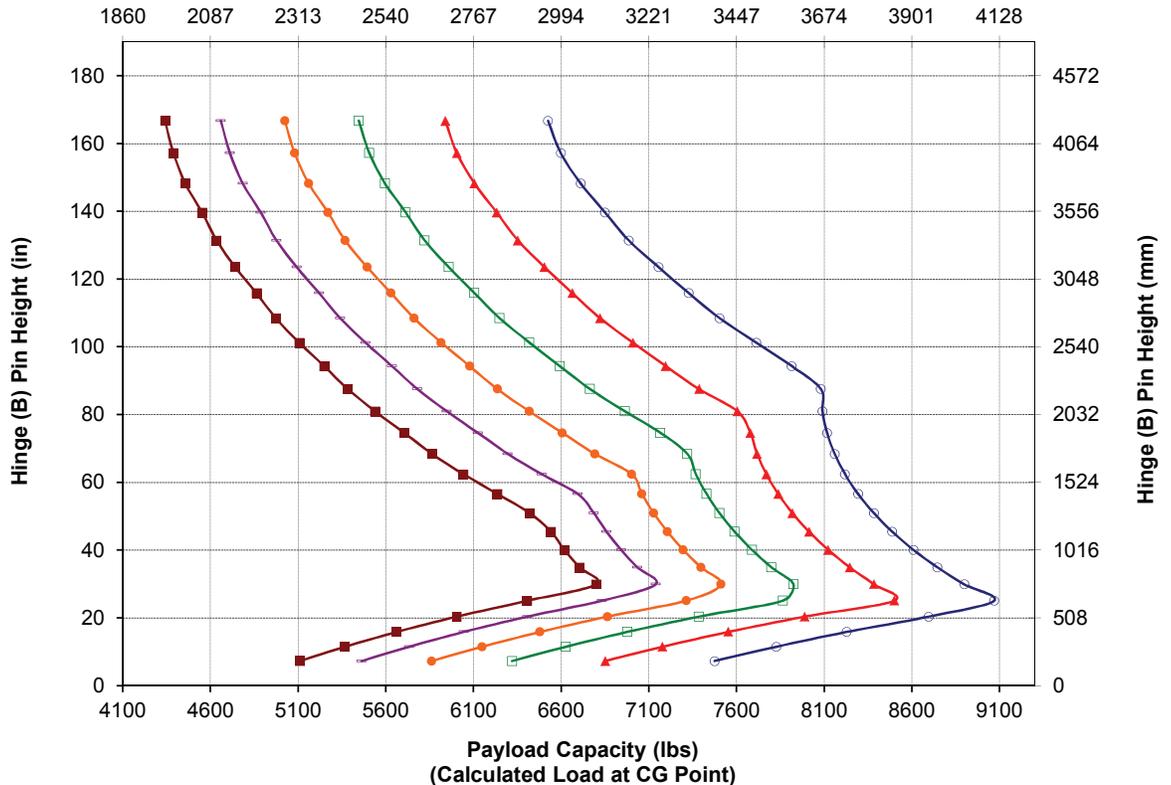
# 966M Wheel Loader Specifications

## Material Handling Arm – Aggregate Fusion

MHA Specifications		Retracted	Extension 1	Extension 2	Extension 3	Extension 4	Extended
Max Lift - Hook Reach (1, 2, 3, 4, 5, 6)	mm	1,826	1,939	2,052	2,165	2,278	2,391
	ft. in	5' 11"	6' 4"	6' 8"	7' 1"	7' 5"	7' 10"
Max Lift - Hook Height (7, 8, 9, 10, 11, 12)	mm	7,208	7,491	7,774	8,057	8,340	8,623
	ft. in	23' 7"	24' 6"	25' 6"	26' 5"	27' 4"	28' 3"
Level - Hook Reach (13, 14, 15, 16, 17, 18)	mm	4,556	4,861	5,165	5,470	5,775	6,080
	ft. in	14' 11"	15' 11"	16' 11"	17' 11"	18' 11"	19' 11"
Level - Hook Height (19)	mm	1,927	1,927	1,927	1,927	1,927	1,927
	ft. in	6' 3.8"	6' 3.8"	6' 3.8"	6' 3.8"	6' 3.8"	6' 3.8"
Min Lift - Hook Reach (20, 21, 22, 23, 24, 25)	mm	1,723	1,855	1,986	2,117	2,248	2,380
	ft. in	5' 7"	6' 1"	6' 6"	6' 11"	7' 4"	7' 9"
Min Lift - Hook Height (26, 27, 28, 29, 30, 31)	mm	(2,881)	(3,156)	(3,431)	(3,706)	(3,981)	(4,256)
	ft. in	-9' 6"	-10' 7"	-11' 8"	-12' 10"	-13' 11"	-13' 0"
Static Tipping Load, Straight	kg	8,308	7,861	7,459	7,095	6,765	6,463
	lb	18,310	17,326	16,440	15,638	14,910	14,244
Static Tipping Load, Articulated	kg	7,358	6,962	6,606	6,283	5,990	5,722
	lb	16,218	15,345	14,559	13,848	13,201	12,610
Operating Weight	kg	22,701	22,701	22,701	22,701	22,701	22,701
	lb	50,033	50,033	50,033	50,033	50,033	50,033



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



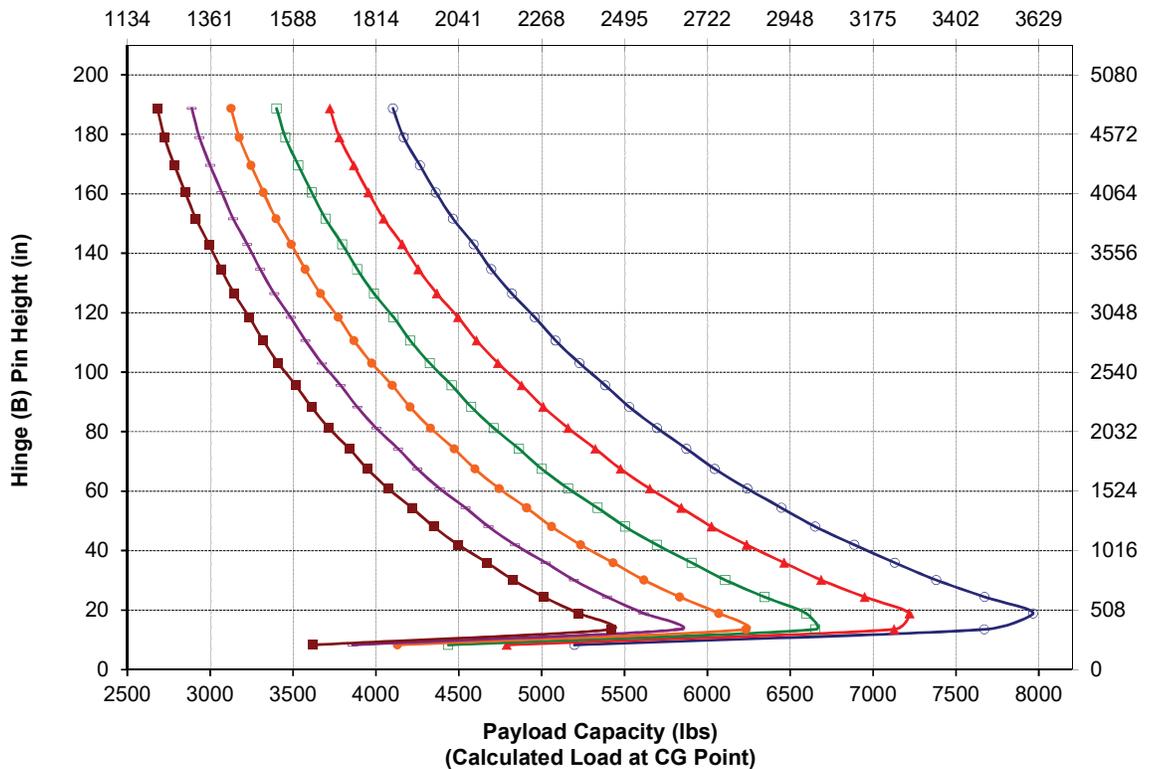
# 966M Wheel Loader Specifications

## 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	1,276	1,339	1,402	1,465	1,528	1,592
	ft, in	4' 2"	4' 4"	4' 7"	4' 9"	5' 0"	5' 2"
Max Lift - Hook Height (7, 8, 9, 10, 11, 12)	mm	7,965	8,263	8,562	8,860	9,158	9,456
	ft, in	26' 1"	27' 1"	28' 1"	29' 0"	30' 0"	31' 0"
Level - Hook Reach (13, 14, 15, 16, 17, 18)	mm	4,960	5,265	5,570	5,874	6,179	6,484
	ft, in	16' 3"	17' 3"	18' 3"	19' 3"	20' 3"	21' 3"
Level - Hook Height (19)	mm	1,927	1,927	1,927	1,927	1,927	1,927
	ft, in	6' 3.8"	6' 3.8"	6' 3.8"	6' 3.8"	6' 3.8"	6' 3.8"
Min Lift - Hook Reach (20, 21, 22, 23, 24, 25)	mm	(410)	(526)	(642)	(758)	(874)	(990)
	ft, in	-1' 7"	-1' 3"	-2' 10"	-2' 6"	-2' 1"	-3' 9"
Min Lift - Hook Height (26, 27, 28, 29, 30, 31)	mm	(2,747)	(3,029)	(3,311)	(3,593)	(3,874)	(4,156)
	ft, in	-9' 11"	-9' 0"	-10' 1"	-11' 2"	-12' 3"	-13' 4"
Static Tipping Load, Straight	kg	8,190	7,778	7,405	7,065	6,754	6,469
	lb	18,050	17,142	16,320	15,571	14,887	14,258
Static Tipping Load, Articulated	kg	7,207	6,844	6,515	6,215	5,941	5,690
	lb	15,883	15,083	14,358	13,698	13,094	12,540
Operating Weight	kg	23,621	23,621	23,621	23,621	23,621	23,621
	lb	52,061	52,061	52,061	52,061	52,061	52,061



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



# 966M 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 air filter	✓	
Brakes, full hydraulic enclosed wet-disc with Integrated Braking System (IBS)	✓		Cab, pressurized and sound suppressed (ROPS/FOPS)	✓	
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 tie-off	✓	
Economy mode (selectable)	✓		Coat hook (2)	✓	
Engine, Cat C9.3 – meets Tier 3/ Stage IIIA equivalent or Tier 4 Final/ Stage V emission standards	✓		Cover, HVAC metallic		✓
Fan, radiator, on demand	✓		Door, remote opening system		✓
Fan, VPF (variable pitch fan), automatic and manual control		✓	EH controls, SAL (single axis lever) lift and tilt function	✓	
Fuel priming pump (electric)	✓		EH controls, joystick lift and tilt – additional integrated roller switches for 3 <sup>rd</sup> and 4 <sup>th</sup> functions		✓
Fuel/water separator	✓		EH controls, SAL 3 <sup>rd</sup> function – additional roller switch for 4 <sup>th</sup> function		✓
Parking brake, disc and caliper	✓		EH parking brake	✓	
Precleaner, engine air intake	✓		Ergonomic cab access ladders and handrails	✓	
Radiator, high debris with wider fin spacing		✓	Filter, carbon fresh air		✓
Switch, transmission neutralizer lockout	✓		Horn, electric	✓	
Torque converter, locking clutch with free wheel stator	✓		Light, two dome (cab)	✓	
Transmission, automatic planetary power shift (4F/4R)	✓		Mirrors, heated rearview external with integrated spot mirrors		✓
<b>CAT TECHNOLOGY</b>			Mirrors, rearview external with integrated spot mirrors	✓	
Detect technologies:			Multi-function 18 cm (7 in) color touch-screen display for rear vision camera, clock and machine parameters	✓	
Rear vision camera	✓		Post mounted membrane 16 switch keypad	✓	
Cat rear object detection		✓	Precleaner, HVAC		✓
Link technologies:			Precleaner, HVAC (RESPA)		✓
Product Link	✓		Radio, AM/FM/USB/MP3 Bluetooth		✓
VIMS™		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth		✓
Payload technologies: Advanced Productivity subscription, Cat Production Measurement 2.0, Printer, Aggregate Autodig		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth with Satellite Sirius and XM		✓
Machine security system		✓	Radio, CB ready		✓
			Radio ready (entertainment) includes antenna, speakers and converter (12V, 10-amp)	✓	
			Receptacles (2), 12V	✓	

(continued on next page)

# 966M Wheel Loader Standard and Optional Equipment

## Standard and Optional Equipment (continued)

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

	Standard	Optional
<b>OPERATOR ENVIRONMENT (continued)</b>		
Roof, metallic		✓
Seat, cloth, air suspension	✓	
Seat, suede/cloth, air suspension, heated		✓
Seat, leather/cloth, air suspension, heated/cooled		✓
Seat belt, 51 mm (2 in) retractable, with indicator	✓	
Seat belt, 76 mm (3 in) retractable, with indicator		✓
Steering, EH joystick, speed sensing with force feedback	✓	
Steering, EH wheel with directional FNR shifter and gear selector – additional FNR with implement controls		✓
Steering, secondary		✓
Sun visor, front	✓	
Sun visor, rear		✓
Viscous mounts	✓	
Wet-arm wipers/washers front and rear, intermittent front wiper	✓	
Windows, rubber mounted		✓
Window, sliding (left and right sides)	✓	
Windows, with front guard		✓
Windows, with heavy duty front guard		✓
Windows, with full guards front, rear and sides		✓
<b>ELECTRICAL AND LIGHTING</b>		
Alarm, back-up	✓	
Alternator, 145-amp brushed	✓	
Auxiliary halogen cab-mounted work lights (four additional) or		✓
Auxiliary front HI LED (two additional) and two additional auxiliary rear LED cab mounted work lights with 2 LED work lights in the radiator grill and LED front turn signals. Also includes replacement of the standard four halogen cab-mounted work lights with four LED work lights (the standard offering and only roading light available is the halogen roading light)		✓
Batteries (2), maintenance free 1,400 CCA	✓	
External seat belt indicator light		✓
Ignition key; start/stop switch	✓	
Lighting system: four halogen work lights (cab mounted), two halogen roading lights (with signals), two halogen rear vision lights (hood mounted)	✓	

	Standard	Optional
<b>ELECTRICAL AND LIGHTING (continued)</b>		
Main disconnect switch	✓	
Receptacle start (cables not included)	✓	
Reversing strobes		✓
Speed limiter – 20 km/h (Europe only)		✓
Starter, electric, heavy duty	✓	
Starting and charging system (24V)	✓	
Warning amber strobe beacon		✓
<b>FLUIDS</b>		
Premixed extended life coolant with freeze protection to -34°C (-29°F)	✓	
Premixed extended life coolant with freeze protection to -50°C (-58°F)		✓
<b>HYDRAULICS</b>		
Hoses, Cat XT™	✓	
Hydraulic system, load sensing	✓	
Oil sampling valves	✓	
3 <sup>rd</sup> function with Ride Control – standard linkage, high lift linkage, forestry linkage		✓
4 <sup>th</sup> function with Ride Control – standard linkage, high lift linkage, forestry linkage		✓
Remote diagnostic pressure taps	✓	
Ride control, 2V	✓	
Steering, load sensing	✓	
<b>LINKAGE</b>		
Forestry		✓
High lift		✓
Kickout, lift and tilt, automatic	✓	
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)

# 966M Wheel Loader Standard and Optional Equipment

## Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
<b>COMPUTERIZED MONITORING SYSTEM</b>			<b>OTHER STANDARD AND OPTIONAL EQUIPMENT</b>		
With following gauges:	✓		Auto idle shutdown	✓	
Speedometer/tachometer			Cat Autolube System		✓
Digital gear range indicator			Ecology drains for engine, transmission, and hydraulics	✓	
Diesel Exhaust Fluid (DEF) level (Tier 4 Final/Stage V models)			Ether aid ready	✓	
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			Oil change, high speed engine		✓
Parking brake			Platform, window washing	✓	
DEF low level (Tier 4 Final/Stage V models)			Precleaner, turbine		✓
Transmission filter bypass			Precleaner, trash		✓
			Precleaner rain cap	✓	
			Service centers (electrical and hydraulic)	✓	
			Sight gauges: engine coolant, hydraulic oil, and transmission oil level	✓	
			Toolbox	✓	
			Vandalism protection caplocks	✓	
			Wheel chocks		✓
			<b>OTHER CONFIGURATIONS</b>		
			Aggregate handler		✓
			Corrosion resistance		✓
			Industrial and waste handler		✓
			Forestry		✓



# 966M

## *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 requires 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.

# 966M Industrial & Waste Specifications

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

Engine Model	Cat C9.3	
Maximum Power @ 1,800 rpm		
SAE J1995	230 kW	308 hp
Maximum Power @ 1,800 rpm		
ISO 14396	227 kW	304 hp
Maximum Net Power @ 1,700 rpm		
SAE J1349	207 kW	278 hp
Maximum Net Power @ 1,700 rpm		
ISO 9249	207 kW	278 hp
Peak Gross Torque (1,200 rpm)		
SAE J1995	1600 N·m	1,180 lbf-ft
Peak Gross Torque (1,200 rpm)		
ISO 14396	1581 N·m	1,166 lbf-ft
Maximum Net Torque (1,000 rpm)	1507 N·m	1,112 lbf-ft
Displacement	9.3 L	568 in <sup>3</sup>

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

## Transmission

Forward 1	6.5 km/h	4.0 mph
Forward 2	13.0 km/h	8.1 mph
Forward 3	23.5 km/h	14.6 mph
Forward 4	39.5 km/h	24.5 mph
Reverse 1	7.1 km/h	4.4 mph
Reverse 2	14.4 km/h	8.9 mph
Reverse 3	25.9 km/h	16.1 mph
Reverse 4	39.5 km/h	24.5 mph

• Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 826 mm (32.5 in) roll radius.

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

Engine Model	Cat C9.3	
Maximum Power @ 1,800 rpm		
SAE J1995	232 kW	311 hp
Maximum Power @ 1,800 rpm		
ISO 14396	229 kW	307 hp
Maximum Net Power @ 1,700 rpm		
SAE J1349	206 kW	276 hp
Maximum Net Power @ 1,700 rpm		
ISO 9249	206 kW	276 hp
Peak Gross Torque (1,200 rpm)		
SAE J1995	1599 N·m	1,179 lbf-ft
Peak Gross Torque (1,200 rpm)		
ISO 14396	1581 N·m	1,166 lbf-ft
Maximum Net Torque (1,000 rpm)	1527 N·m	1,126 lbf-ft
Displacement	9.3 L	568 in <sup>3</sup>

2 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 air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg of refrigerant which has a CO<sub>2</sub> equivalent of 2.288 metric tonnes.

## Brakes

Brakes Brakes meet ISO 3450:2011 standards

## Hydraulic System

Implement Pump Type	Variable Displacement Piston	
Implement System		
Maximum Pump Output (2,200 rpm)	360 L/min	95 gal/min
Maximum Operating Pressure	31 000 kPa	4,496 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	6.1 Sec.	
Dump, at Maximum Raise	1.4 Sec.	
Lower, Empty, Float Down	2.6 Sec.	
Total	10.1 Sec.	

## Axles

Front	Fixed	
Rear	Oscillating ±13 degrees	
Maximum Single-Wheel Rise and Fall	502 mm	19.5 in

## Cab

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

## 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.

With Cooling Fan Speed at Maximum Value:

Operator Sound Pressure Level (ISO 6396:2008)	70 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	109 dB(A)
Exterior Sound Pressure Level (SAE J88:2013)	76 dB(A)*

\*Distance of 15 m (49.2 ft), moving forward in second gear ratio.

## Service Refill Capacities

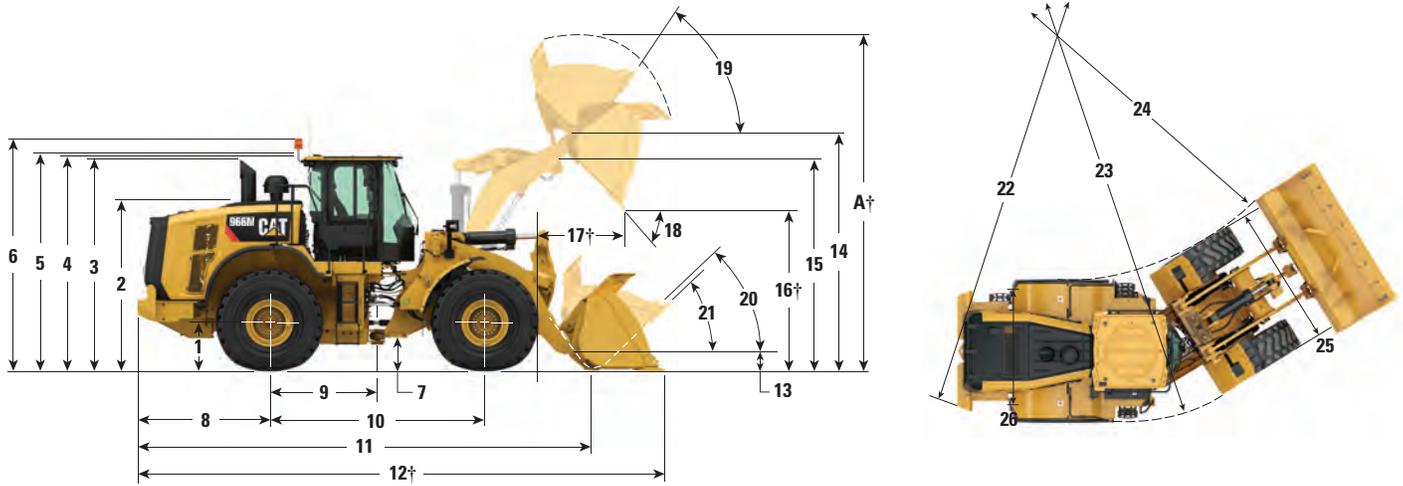
Fuel Tank	302.0 L	79.8 gal
DEF Tank*	16.8 L	4.4 gal
Cooling System	71.6 L	18.9 gal
Crankcase	24.5 L	6.5 gal
Transmission	58.5 L	15.5 gal
Differentials and Final Drives – Front	57.0 L	15.1 gal
Differentials and Final Drives – Rear	57.0 L	15.1 gal
Hydraulic Tank	125.0 L	33.0 gal

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

# 966M Industrial & Waste Specifications

## Waste Handler Dimensions

All dimensions are approximate.



	Standard Lift		High Lift	
1 Height to Axle Centerline	836 mm	2'9"	836 mm	2'9"
2 Height to Top of Hood	2855 mm	9'4"	2855 mm	9'4"
3 Height to Top of Exhaust Pipe	3559 mm	11'8"	3559 mm	11'8"
4 Height to Top of ROPS	3624 mm	11'11"	3624 mm	11'11"
5 Height to Top of Product Link Antenna	3673 mm	12'1"	3673 mm	12'1"
6 Height to Top of Warning Beacon	3896 mm	12'9"	3896 mm	12'9"
7 Ground Clearance	471 mm	1'7"	471 mm	1'7"
8 Center Line of Rear Axle to Edge of Counterweight	2180 mm	7'2"	2500 mm	8'2"
9 Center Line of Rear Axle to Hitch	1775 mm	5'10"	1775 mm	5'10"
10 Wheelbase	3550 mm	11'8"	3550 mm	11'8"
11 Overall Length (without bucket)	7371 mm	24'3"	8191 mm	26'11"
12 Shipping Length (with bucket level on ground)*†	9219 mm	30'3"	9720 mm	31'11"
13 Hinge Pin Height at Carry Height	667 mm	2'2"	815 mm	2'8"
14 Hinge Pin Height at Maximum Lift	4272 mm	14'0"	4830 mm	15'10"
15 Lift Arm Clearance at Maximum Lift	3680 mm	12'0"	4177 mm	13'8"
16 Dump Clearance at Maximum Lift and 45° Discharge*†	2669 mm	8'9"	3227 mm	10'7"
17 Reach at Maximum Lift and 45° Discharge*†	1526 mm	5'0"	1501 mm	4'11"
18 Dump Angle at Maximum Lift and Dump (on stops)*	46 degrees		45 degrees	
19 Rack Back at Maximum Lift*	62 degrees		71 degrees	
20 Rack Back at Carry Height*	50 degrees		49 degrees	
21 Rack Back at Ground*	42 degrees		39 degrees	
22 Clearance Circle (radius) to Counterweight	6872 mm	22'7"	6872 mm	22'7"
23 Clearance Circle (radius) to Outside of Tires	6720 mm	22'1"	6720 mm	22'1"
24 Clearance Circle (radius) to Inside of Tires	3894 mm	12'10"	3894 mm	12'10"
25 Width over Tires – Maximum (unloaded)	2959 mm	9'9"	2959 mm	9'9"
Width over Tires – Maximum (loaded)	2968 mm	9'9"	2968 mm	9'9"
26 Tread Width	2230 mm	7'4"	2230 mm	7'4"

\*With 7.4 m<sup>3</sup> (59.75 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 26.5-25 HPS Solidflex Smooth tires (see Tire Option charts for other tires).

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

## Tire Options for Scrap and Waste

Tire Brand	Brawler HPS	Brawler HPS	Michelin	Bridgestone	Yokohama	Titan
Tire Size	26.5-25	26.5-25	26.5R25	26.5R25	26.5R25	26.5R25
Tread Type	—	—	L-3	L-3	L-3	L-3
Tread Pattern	Solidflex Smooth	Solidflex Traction	XHA2	VJT	RB31	STL3
Width over Tires – Maximum (empty)*	2959 mm 9'8"	2959 mm 9'8"	2991 mm 9'10"	2982 mm 9'9"	2950 mm 9'8"	2954 mm 9'8"
Width over Tires – Maximum (loaded)*	2968 mm 9'9"	2968 mm 9'9"	3009 mm 9'10"	3016 mm 9'11"	2982 mm 9'9"	2989 mm 9'10"
Change in Vertical Dimensions (average of front and rear)	0 mm 0"	0 mm 0"	-37 mm -1"	-22 mm -1"	-22 mm -1"	-21 mm -1"
Change in Horizontal Reach	0 mm 0"	0 mm 0"	-9 mm 0"	-11 mm 0"	-8 mm 0"	-9 mm 0"
Change in Clearance Circle (radius) to Outside of Tires	0 mm 0"	0 mm 0"	41 mm 2"	48 mm 2"	14 mm 1"	22 mm 1"
Change in Clearance Circle (radius) to Inside of Tires	0 mm 0"	0 mm 0"	-41 mm -2"	-48 mm -2"	-14 mm -1"	-22 mm -1"
Change in Operating Weight (without Ballast)	0 kg 0 lb	-222 kg -489 lb	-4464 kg -9,839 lb	-4300 kg -9,477 lb	-4188 kg -9,230 lb	-4344 kg -9,574 lb
Change in Static Tipping Load – Straight	0 kg 0 lb	-160 kg -353 lb	-3225 kg -7,107 lb	-3106 kg -6,846 lb	-3025 kg -6,668 lb	-3138 kg -6,916 lb
Change in Static Tipping Load – Articulated	0 kg 0 lb	-143 kg -315 lb	-2876 kg -6,338 lb	-2770 kg -6,105 lb	-2698 kg -5,946 lb	-2798 kg -6,168 lb

\*Width over bulge and includes tire growth.

# 966M Industrial & Waste Specifications

## Operating Specifications – Waste Buckets

Waste Load & Carry Bucket



Waste Dozing Bucket



Waste Tamp & Clamp Bucket



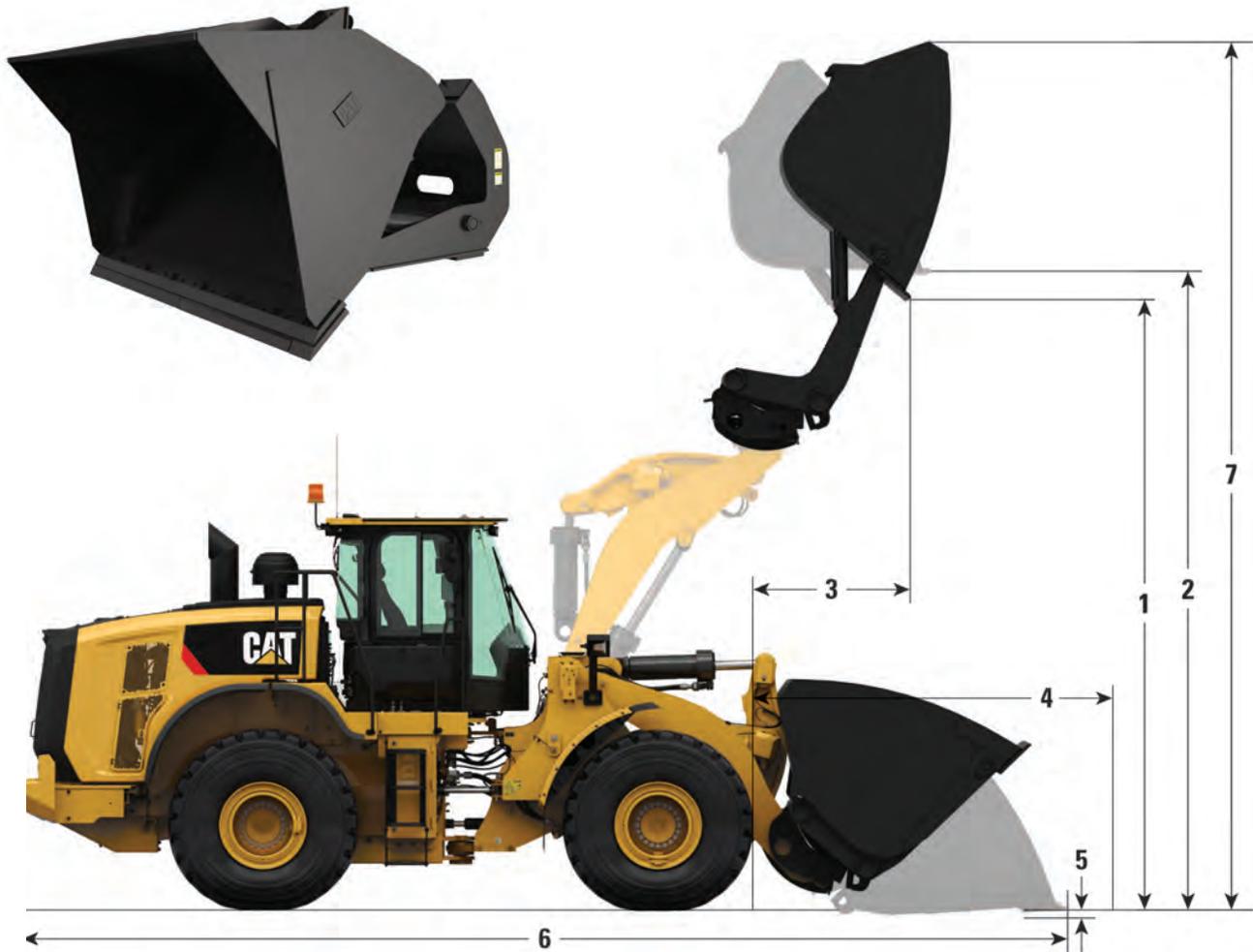
Bucket Type		Pin-On Load & Carry	Pin-On Dozing	Pin-On Tamp & Clamp	
Edge Type		Steel Bolt-On Cutting Edges	Steel Bolt-On Cutting Edges	Steel Bolt-On Cutting Edges	High Lift Delta*
Capacity – Rated	m <sup>3</sup>	7.40	6.50	5.00	—
	yd <sup>3</sup>	9.75	8.50	6.50	—
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	8.10	7.20	5.50	—
	yd <sup>3</sup>	10.50	9.50	7.25	—
Width	mm	3357	3357	3357	—
	ft/in	11'0"	11'0"	11'0"	—
16† Dump Clearance at Maximum Lift and 45° Discharge	mm	2669	2950	2456	558
	ft/in	8'9"	9'8"	8'0"	1'9"
17† Reach at Maximum Lift and 45° Discharge	mm	1526	1245	1740	24
	ft/in	5'0"	4'1"	5'8"	11"
Reach at Level Lift Arm and Bucket Level	mm	3199	2802	3501	404
	ft/in	10'5"	9'2"	11'5"	1'3"
12† Overall Length	mm	9133	8736	9435	587
	ft/in	30'0"	28'8"	31'0"	1'11"
A† Overall Height with Bucket at Maximum Lift	mm	6376	6735	5515	558
	ft/in	20'11"	22'2"	18'2"	1'9"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7686	7584	7768	264
	ft/in	25'3"	24'11"	25'6"	10"
Static Tipping Load, Straight (Rigid Tire)	kg	20 063	22 057	17 440	-2931
	lb	44,219	48,615	38,437	-6,459
Static Tipping Load, Articulated (Rigid Tire)	kg	17 764	19 581	15 318	-2676
	lb	39,153	43,156	33,762	-5,897
Breakout Force	kN	1836	182	111	-10
	lbf	30,776	41,070	25,083	-2,246
Operating Weight	kg	28 856	28 649	29 879	234
	lb	63,598	63,142	65,853	515

†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 (7'7") for largest size available on 966M
- 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

# 966M Industrial & Waste Specifications

<b>Waste High Dump Bucket</b>			
<b>Package</b>	<b>Standard</b>		
<b>Bucket Type</b>	<b>Fusion</b>		
<b>Edge Type</b>	<b>Steel Bolt-On Cutting Edges</b>		
Capacity – Rated	m <sup>3</sup>	5.40	
	yd <sup>3</sup>	7.00	
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	5.90	
	yd <sup>3</sup>	7.75	
Width	mm	3059	
	ft/in	10'0"	
<b>1</b> Dump Clearance at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	4899	
	ft/in	16'0"	
<b>2</b> Clearance at Max Lift, Max Rack, Bucket Rolled out to Level	mm	5315	
	ft/in	17'5"	
<b>3</b> Reach at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	1647	
	ft/in	5'4"	
<b>4</b> Reach at Level Lift Arm and Bucket Level	mm	3262	
	ft/in	10'8"	
<b>5</b> Digging Depth	mm	136	
	ft/in	5.3"	
<b>6</b> Overall Length	mm	9179	
	ft/in	30'2"	
<b>7</b> Overall Height with Bucket at Max Height and Max Rack	mm	7013	
	ft/in	23'0"	
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7453	
	ft/in	24'7"	
Static Tipping Load, Straight (Rigid Tire)	kg	19 405	
	lb	42,768	
Static Tipping Load, Articulated (Rigid Tire)	kg	17 153	
	lb	37,805	
Breakout Force	kN	132	
	lbf	29,734	
Operating Weight*	kg	29 064	
	lb	64,123	

\*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.

## Scrap Bucket Chart



Package		966M 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>	3.8	4.0	4.2	4.6	3.8	4.2	4.6
	yd <sup>3</sup>	5.00	5.25	5.50	6.00	5.00	5.50	6.00
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	4.2	4.4	4.6	5.1	4.2	4.6	5.1
	yd <sup>3</sup>	5.50	5.75	6.00	6.75	5.50	6.00	6.75
Width	mm	3220	3220	3220	3220	3220	3220	3220
	ft/in	10' 6"	10' 6"	10' 6"	10' 6"	10' 6"	10' 6"	10' 6"
<b>16</b> Dump Clearance at Maximum Lift and 45° Discharge	mm	3104	3095	3028	3014	3075	2997	2984
	ft/in	10' 2"	10' 1"	9' 11"	9' 10"	10' 1"	9' 10"	9' 9"
<b>17</b> Reach at Maximum Lift and 45° Discharge	mm	1300	1307	1361	1373	1335	1406	1409
	ft/in	4' 3"	4' 3"	4' 5"	4' 6"	4' 4"	4' 7"	4' 7"
Reach at Level Lift Arm and Bucket Level	mm	2712	2723	2811	2830	2756	2866	2876
	ft/in	8' 10"	8' 11"	9' 2"	9' 3"	9' 0"	9' 4"	9' 5"
Digging Depth	mm	87	87	87	87	87	79	86
	ft/in	3.4"	3.4"	3.4"	3.4"	3.4"	3.1"	3.3"
<b>12</b> Overall Length	mm	8712	8723	8811	8830	8756	8859	8875
	ft/in	28' 7"	28' 8"	28' 11"	28' 12"	28' 9"	29' 1"	29' 2"
<b>A</b> Overall Height with Bucket at Maximum Lift	mm	5825	5939	5939	5911	5840	5997	6075
	ft/in	19' 2"	19' 6"	19' 6"	19' 5"	19' 2"	19' 9"	19' 12"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7487	7490	7512	7516	7495	7519	7525
	ft/in	24' 7"	24' 7"	24' 8"	24' 8"	24' 8"	24' 9"	24' 9"
Static Tipping Load, Straight (Rigid Tire)	kg	21 798	21 796	21 560	21 602	21 146	20 839	21 058
	lb	48,043	48,040	47,520	47,612	46,605	45,929	46,411
Static Tipping Load, Articulated (Rigid Tire)	kg	19 420	19 414	19 195	19 224	18 799	18 516	18 700
	lb	42,802	42,789	42,307	42,370	41,434	40,810	41,215
Breakout Force	kN	187	185	173	170	181	166	164
	lbf	42,202	41,746	39,031	38,324	40,681	37,423	37,051
Operating Weight*	kg	27 959	28 011	28 067	28 107	28 376	28 440	28 554
	lb	61,621	61,736	61,859	61,948	62,541	62,680	62,932

\*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.

# 966M Industrial & Waste Standard & 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 air filter	✓	
Brakes, full hydraulic enclosed wet-disc with Integrated Braking System (IBS)	✓		Cab, pressurized and sound suppressed (ROPS/FOPS)	✓	
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 tie-off	✓	
Economy mode (selectable)	✓		Coat hook (2)	✓	
Engine, Cat C9.3 – meets Tier 3/ Stage IIIA equivalent or Tier 4 Final/ Stage V emission standards	✓		Cover, HVAC metallic		✓
Fan, radiator, on demand	✓		Door, remote opening system		✓
Fan, VPF (variable pitch fan), automatic and manual control		✓	EH controls, SAL (single axis lever) lift and tilt function	✓	
Fuel priming pump (electric)	✓		EH controls, joystick lift and tilt – additional integrated roller switches for 3 <sup>rd</sup> and 4 <sup>th</sup> functions		✓
Fuel/water separator	✓		EH controls, SAL 3 <sup>rd</sup> function – additional roller switch for 4 <sup>th</sup> function		✓
Parking brake, disc and caliper	✓		EH parking brake	✓	
Precleaner, engine air intake	✓		Ergonomic cab access ladders and handrails	✓	
Radiator, high debris with wider fin spacing		✓	Filter, carbon fresh air		✓
Switch, transmission neutralizer lockout	✓		Horn, electric	✓	
Torque converter, locking clutch with free wheel stator	✓		Light, two dome (cab)	✓	
Transmission, automatic planetary power shift (4F/4R)	✓		Mirrors, heated rearview external with integrated spot mirrors		✓
<b>CAT TECHNOLOGY</b>			Mirrors, rearview external with integrated spot mirrors	✓	
Detect technologies:			Multi-function 18 cm (7 in) color touch-screen display for rear vision camera, clock and machine parameters	✓	
Rear vision camera	✓		Post mounted membrane 16 switch keypad	✓	
Cat rear object detection		✓	Precleaner, HVAC		✓
Link technologies:			Precleaner, HVAC (RESPA)		✓
Product Link	✓		Radio, AM/FM/USB/MP3 Bluetooth		✓
VIMS		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth		✓
Payload technologies: Advanced Productivity subscription, Cat Production Measurement 2.0, Printer, Aggregate Autodig		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth with Satellite Sirius and XM		✓
Machine security system		✓	Radio, CB ready		✓
			Radio ready (entertainment) includes antenna, speakers and converter (12V, 10-amp)	✓	
			Receptacles (2), 12V	✓	

(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>OPERATOR ENVIRONMENT <i>(continued)</i></b>			<b>ELECTRICAL AND LIGHTING <i>(continued)</i></b>		
Roof, metallic		✓	Main disconnect switch	✓	
Seat, cloth, air suspension	✓		Receptacle start (cables not included)	✓	
Seat, suede/cloth, air suspension, heated		✓	Reversing strobes		✓
Seat, leather/cloth, air suspension, heated/cooled		✓	Speed limiter – 20 km/h (Europe only)		✓
Seat belt, 51 mm (2 in) retractable, with indicator	✓		Starter, electric, heavy duty	✓	
Seat belt, 76 mm (3 in) retractable, with indicator		✓	Starting and charging system (24V)	✓	
Steering, EH joystick, speed sensing with force feedback	✓		Warning amber strobe beacon		✓
Steering, EH wheel with directional FNR shifter and gear selector – additional FNR with implement controls		✓	<b>FLUIDS</b>		
Steering, secondary		✓	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	✓		Hoses, Cat XT	✓	
Wet-arm wipers/washers front and rear, intermittent front wiper	✓		Hydraulic system, load sensing	✓	
Windows, rubber mounted		✓	Oil sampling valves	✓	
Window, sliding (left and right sides)	✓		3 <sup>rd</sup> function with Ride Control – standard linkage, high lift linkage, forestry linkage		✓
Windows, with front guard		✓	4 <sup>th</sup> function with Ride Control – standard linkage, high lift linkage, forestry linkage		✓
Windows, with heavy duty front guard		✓	Remote diagnostic pressure taps	✓	
Windows, with full guards front, rear and sides		✓	Ride control, 2V	✓	
<b>ELECTRICAL AND LIGHTING</b>			Steering, load sensing	✓	
Alarm, back-up	✓		<b>LINKAGE</b>		
Alternator, 145-amp brushed	✓		Forestry		✓
Auxiliary halogen cab-mounted work lights (four additional) or		✓	High lift		✓
Auxiliary front HI LED (two additional) and two additional auxiliary rear LED cab mounted work lights with 2 LED work lights in the radiator grill and LED front turn signals. Also includes replacement of the standard four halogen cab-mounted work lights with four LED work lights (the standard offering and only roading light available is the halogen roading light)		✓	Kickout, lift and tilt, automatic	✓	
Batteries (2), maintenance free 1,400 CCA	✓		Quick coupler ready		✓
External seat belt indicator light		✓	Z-bar, cast crosstube/tilt lever	✓	
Ignition key; start/stop switch	✓		<b>STARTERS, BATTERIES, AND ALTERNATORS</b>		
Lighting system: four halogen work lights (cab mounted), two halogen roading lights (with signals), two halogen rear vision lights (hood mounted)	✓		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)*

# 966M Industrial & Waste Standard & Optional Equipment

## Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
<b>COMPUTERIZED MONITORING SYSTEM</b>			<b>OTHER STANDARD AND OPTIONAL EQUIPMENT</b>		
With following gauges:	✓		Auto idle shutdown	✓	
Speedometer/tachometer			Cat Autolube System		✓
Digital gear range indicator			Ecology drains for engine, transmission, and hydraulics	✓	
Diesel Exhaust Fluid (DEF) level (Tier 4 Final/Stage V models)			Ether aid ready	✓	
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			Oil change, high speed engine		✓
Parking brake			Platform, window washing	✓	
DEF low level (Tier 4 Final/Stage V models)			Precleaner, turbine		✓
Transmission filter bypass			Precleaner, trash		✓
			Precleaner rain cap	✓	
			Service centers (electrical and hydraulic)	✓	
			Sight gauges: engine coolant, hydraulic oil, and transmission oil level	✓	
			Toolbox	✓	
			Vandalism protection caplocks	✓	
			Wheel chocks		✓
			<b>OTHER CONFIGURATIONS</b>		
			Aggregate handler		✓
			Corrosion resistance		✓
			Industrial and waste handler		✓
			Forestry		✓

# 966M Industrial & Waste Standard & Optional Equipment

## Standard and Optional Equipment (continued)

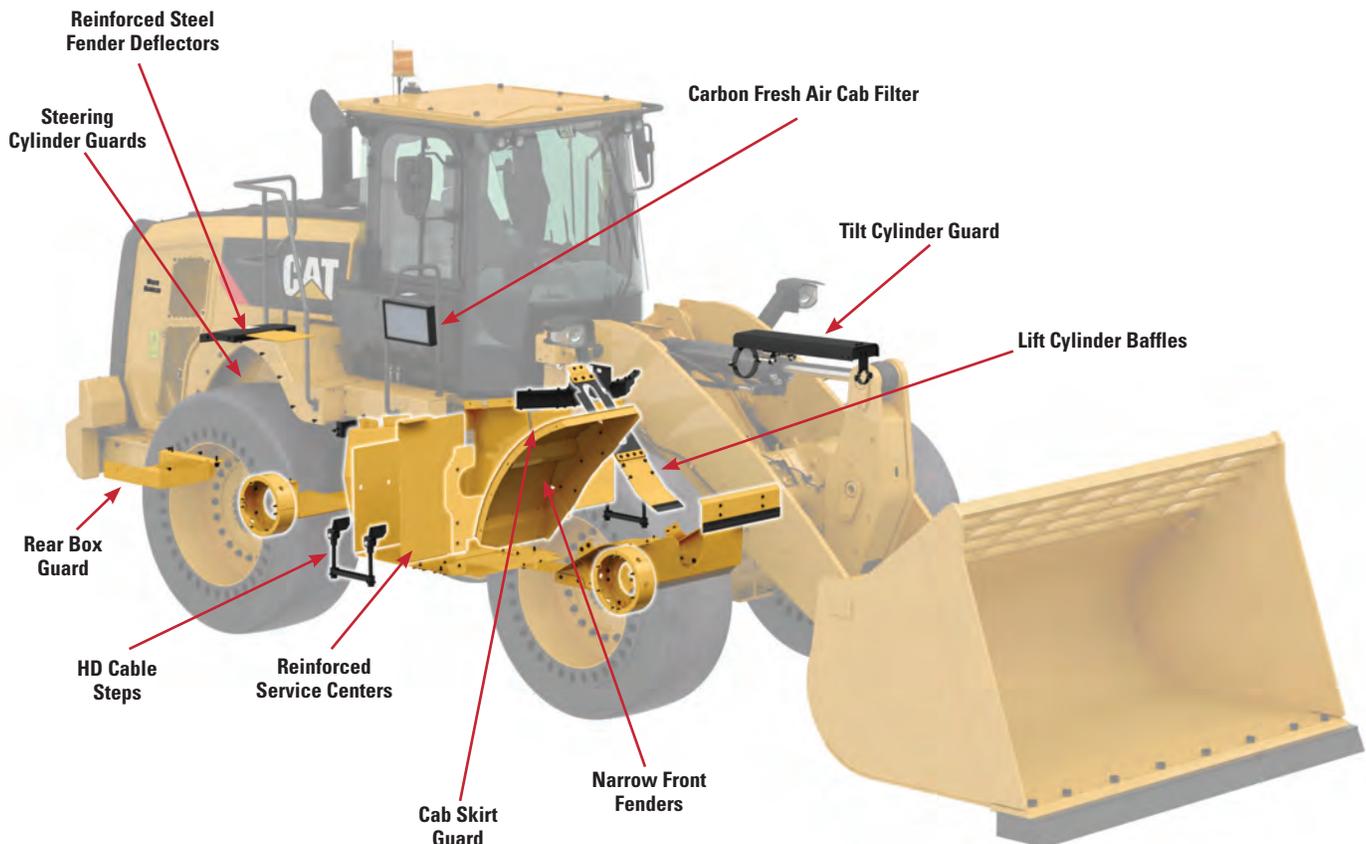
### Standard

- 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

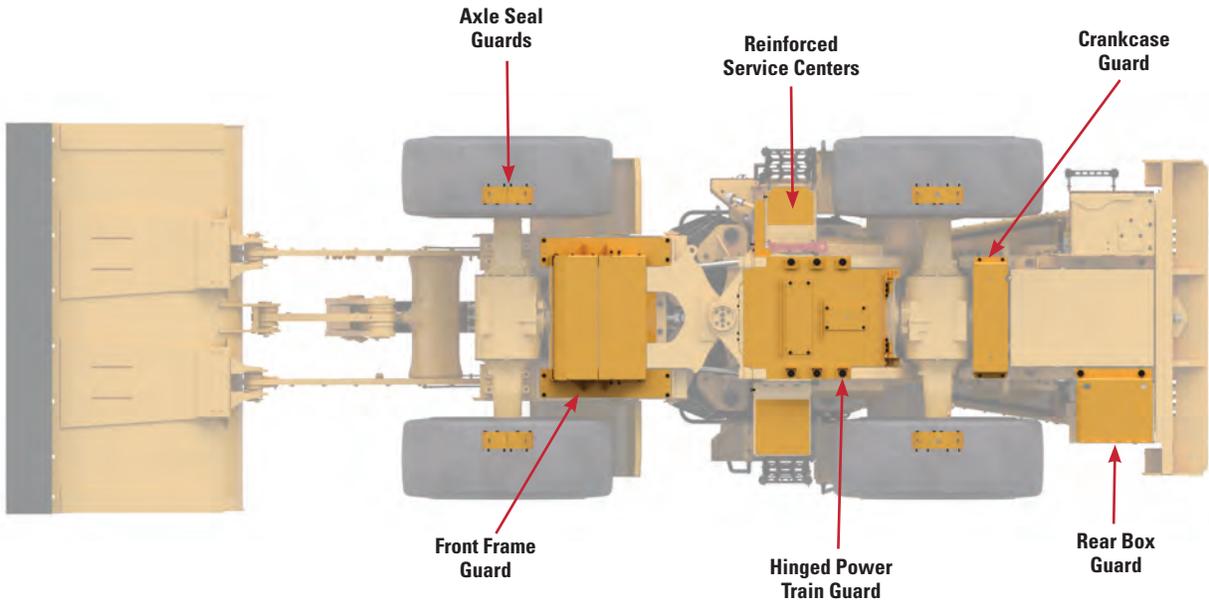
- High Lift linkage (additional 11" dump clearance)
- Auto locking differential front axle
- 3rd function hydraulics
- Premium LED lights
- Rubber mounted glass
- Windshield guard
- Joystick steering
- Deluxe seat with dynamic end dampening
- Joystick loader controls
- Powered and filtered cab precleaner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

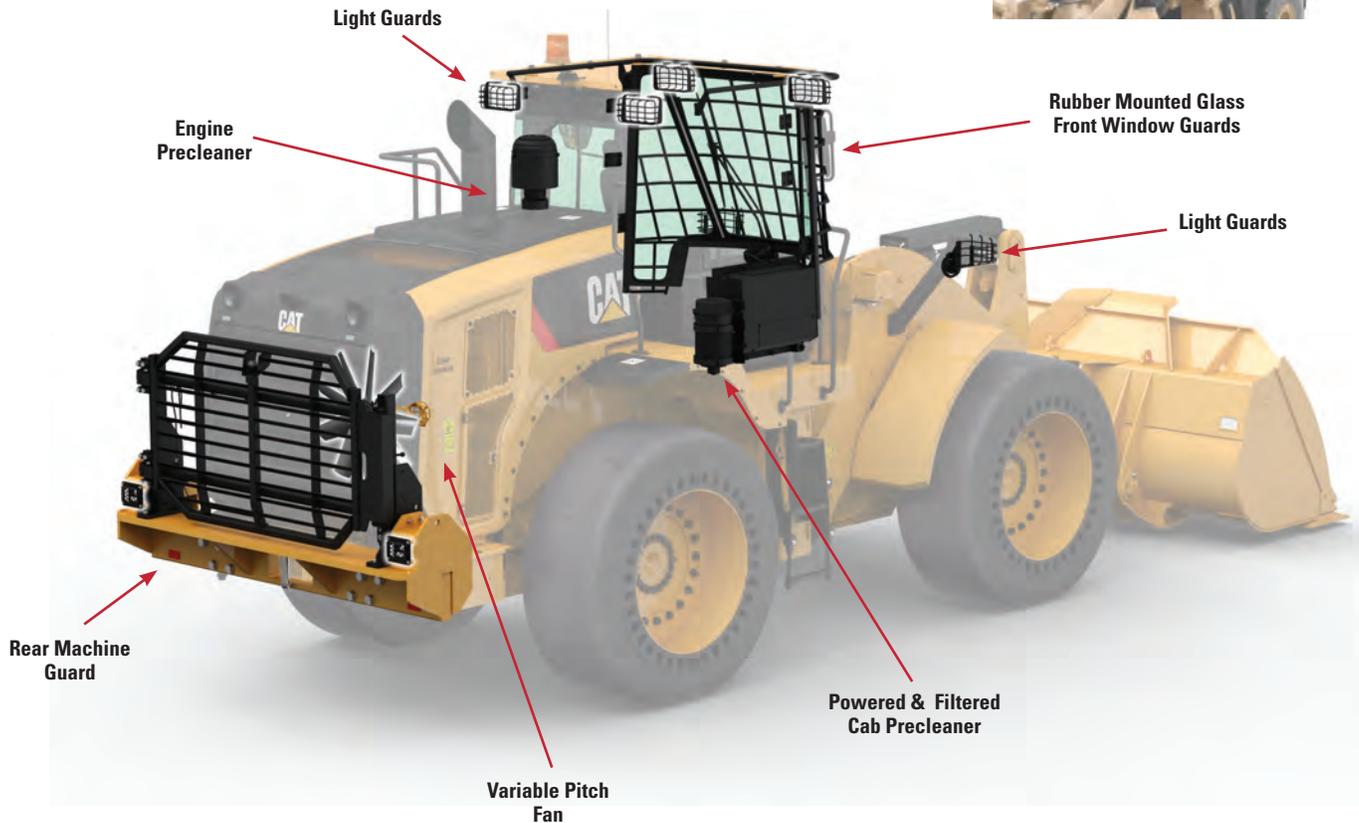
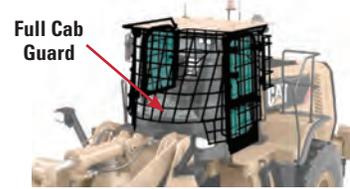


# 966M Industrial & Waste Standard & Optional Equipment

## Bottom Machine Guarding – Standard



## Optional Full Cab Guarding – Available





# 966M

## 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 tilt cylinder and Logger implement valve coupled with Logger counterweight increase machine capacity 19% 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.
- Variable pitch fan and high debris coolers minimize power train overheating and reduce downtime for radiator clean out.

### **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.
- Integrated window cleaning platform with tie-off point allows easy and safe access to the front of the machine.

*\*U.S. EPA Tier 4 Final or EU Stage V*

# 966M Forestry Specifications

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

Engine Model	Cat C9.3	
Maximum Power @ 1,800 rpm		
SAE J1995	230 kW	308 hp
Maximum Power @ 1,800 rpm		
ISO 14396	227 kW	304 hp
Maximum Net Power @ 1,700 rpm		
SAE J1349	207 kW	278 hp
Maximum Net Power @ 1,700 rpm		
ISO 9249	207 kW	278 hp
Peak Gross Torque (1,200 rpm)		
SAE J1995	1600 N·m	1,180 lbf-ft
Peak Gross Torque (1,200 rpm)		
ISO 14396	1581 N·m	1,166 lbf-ft
Maximum Net Torque (1,000 rpm)	1507 N·m	1,112 lbf-ft
Displacement	9.3 L	568 in <sup>3</sup>

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

## Transmission

Forward 1	6.5 km/h	4.0 mph
Forward 2	13.0 km/h	8.1 mph
Forward 3	23.5 km/h	14.6 mph
Forward 4	39.5 km/h	24.5 mph
Reverse 1	7.1 km/h	4.4 mph
Reverse 2	14.4 km/h	8.9 mph
Reverse 3	25.9 km/h	16.1 mph
Reverse 4	39.5 km/h	24.5 mph

• Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 826 mm (32.5 in) roll radius.

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

Engine Model	Cat C9.3	
Maximum Power @ 1,800 rpm		
SAE J1995	232 kW	311 hp
Maximum Power @ 1,800 rpm		
ISO 14396	229 kW	307 hp
Maximum Net Power @ 1,700 rpm		
SAE J1349	206 kW	276 hp
Maximum Net Power @ 1,700 rpm		
ISO 9249	206 kW	276 hp
Peak Gross Torque (1,200 rpm)		
SAE J1995	1599 N·m	1,179 lbf-ft
Peak Gross Torque (1,200 rpm)		
ISO 14396	1581 N·m	1,166 lbf-ft
Maximum Net Torque (1,000 rpm)	1527 N·m	1,126 lbf-ft
Displacement	9.3 L	568 in <sup>3</sup>

2 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 air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg of refrigerant which has a CO<sub>2</sub> equivalent of 2.288 metric tonnes.

## Brakes

Brakes	Brakes meet ISO 3450:2011 standards
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## Hydraulic System

Implement Pump Type	Variable Displacement Piston	
Implement System		
Maximum Pump Output (2,200 rpm)	360 L/min	95 gal/min
Maximum Operating Pressure	31 000 kPa	4,496 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	6.1 Sec.	
Dump, at Maximum Raise	1.4 Sec.	
Lower, Empty, Float Down	2.6 Sec.	
Total	10.1 Sec.	

## Axles

Front	Fixed	
Rear	Oscillating $\pm 13$ degrees	
Maximum Single-Wheel Rise and Fall	502 mm	19.5 in

## 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.

With Cooling Fan Speed at Maximum Value:

Operator Sound Pressure Level (ISO 6396:2008)	70 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	109 dB(A)
Exterior Sound Pressure Level (SAE J88:2013)	76 dB(A)*

\*Distance of 15 m (49.2 ft), moving forward in second gear ratio.

## Service Refill Capacities

Fuel Tank	302.0 L	79.8 gal
DEF Tank*	16.8 L	4.4 gal
Cooling System	71.6 L	18.9 gal
Crankcase	24.5 L	6.5 gal
Transmission	58.5 L	15.5 gal
Differentials and Final Drives – Front	57.0 L	15.1 gal
Differentials and Final Drives – Rear	57.0 L	15.1 gal
Hydraulic Tank	125.0 L	33.0 gal

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

# 966M Forestry Specifications

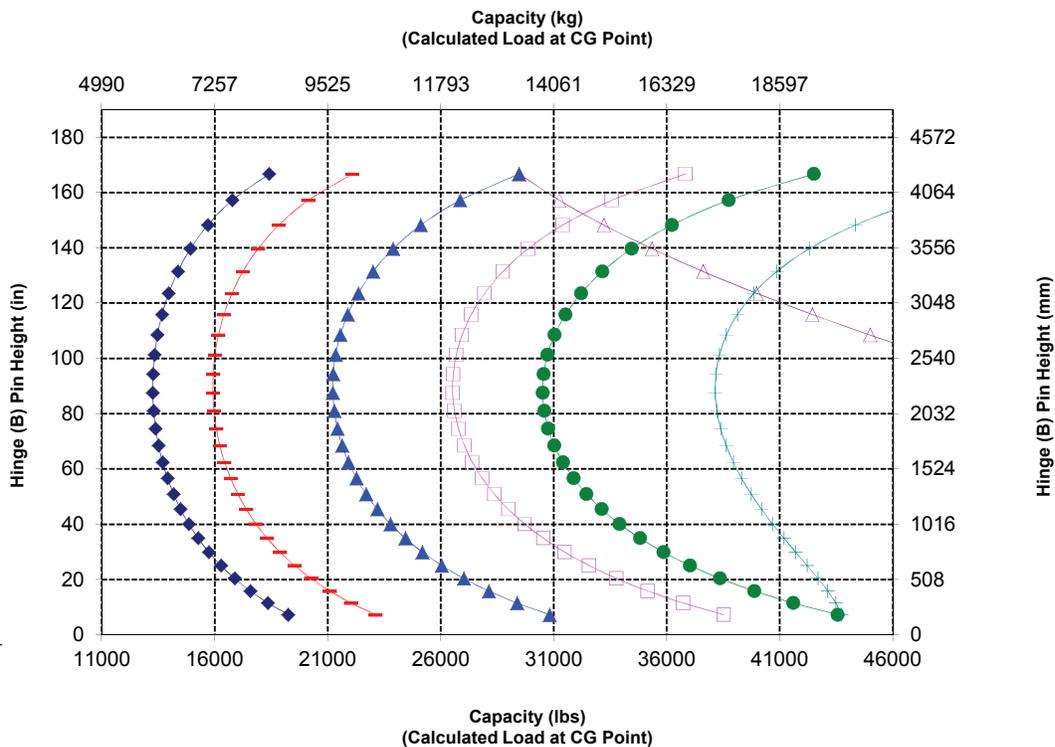
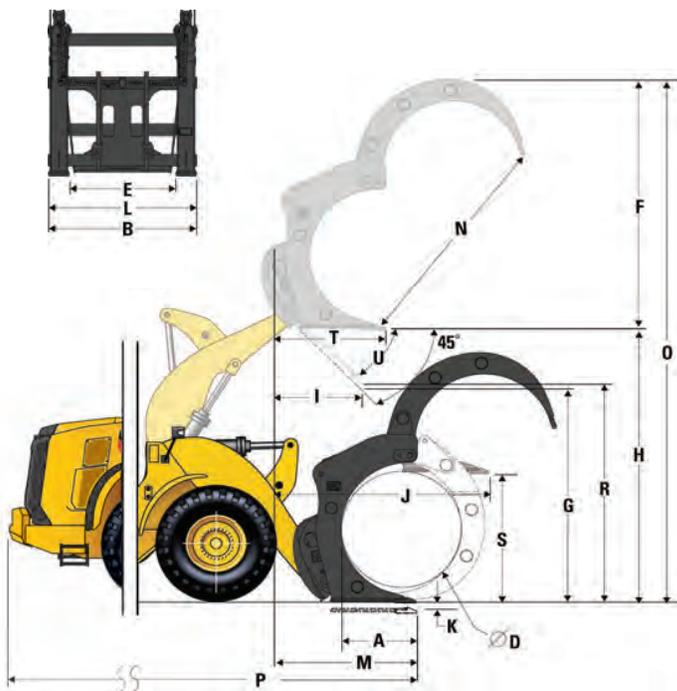
## Dimension Changes – Tires

Tire Brand	Michelin	Michelin	Michelin	Bridgestone	Bridgestone	Bridgestone
Tire Size	26.5R25	26.5R25	26.5R25	26.5R25	26.5R25	775/65R29
Tread Type	L-4	L-5	L-5	L-3	L-5	L-3
Tread Pattern	XLDD1	XLDD2	XMINED2	VJT	VSDL	VTS
Width over Tires – Maximum (empty)*	2987 mm 9'10"	2986 mm 9'10"	2970 mm 9'9"	2982 mm 9'9"	2874 mm 9'5"	3080 mm 10'1"
Width over Tires – Maximum (loaded)*	3019 mm 9'11"	3011 mm 9'11"	2994 mm 9'10"	3016 mm 9'11"	2900 mm 9'6"	3101 mm 10'2"
Change in Vertical Dimensions (average of front and rear)	44 mm 1.7"	39 mm 1.5"	53 mm 2.1"	15 mm 0.6"	50 mm 2"	17 mm 0.7"
Change in Horizontal Reach	-36 mm -1.4"	-34 mm -1.3"	-32 mm -1.3"	-3 mm -0.1"	-29 mm -1.1"	-5 mm -0.2"
Change in Clearance Circle (radius) to Outside of Tires	5 mm 0.2"	1 mm 0"	-7 mm -0.3"	3 mm 0.1"	-54 mm -2.1"	46 mm 1.8"
Change in Clearance Circle (radius) to Inside of Tires	-5 mm -0.2"	-1 mm 0"	7 mm 0.3"	-3 mm -0.1"	54 mm 2.1"	-46 mm -1.8"
Change in Operating Weight (without Ballast)	420 kg 926 lb	716 kg 1,578 lb	1068 kg 2,354 lb	164 kg 361 lb	1136 kg 2,504 lb	856 kg 1,886 lb
Change in Static Tipping Load – Straight	303 kg 669 lb	517 kg 1,140 lb	771 kg 1,700 lb	118 kg 261 lb	821 kg 1,809 lb	618 kg 1,362 lb
Change in Static Tipping Load – Articulated	271 kg 596 lb	461 kg 1,017 lb	688 kg 1,516 lb	106 kg 233 lb	732 kg 1,613 lb	551 kg 1,215 lb

\*Width over bulge and includes tire growth.

## Grapple Fork – Pin-On

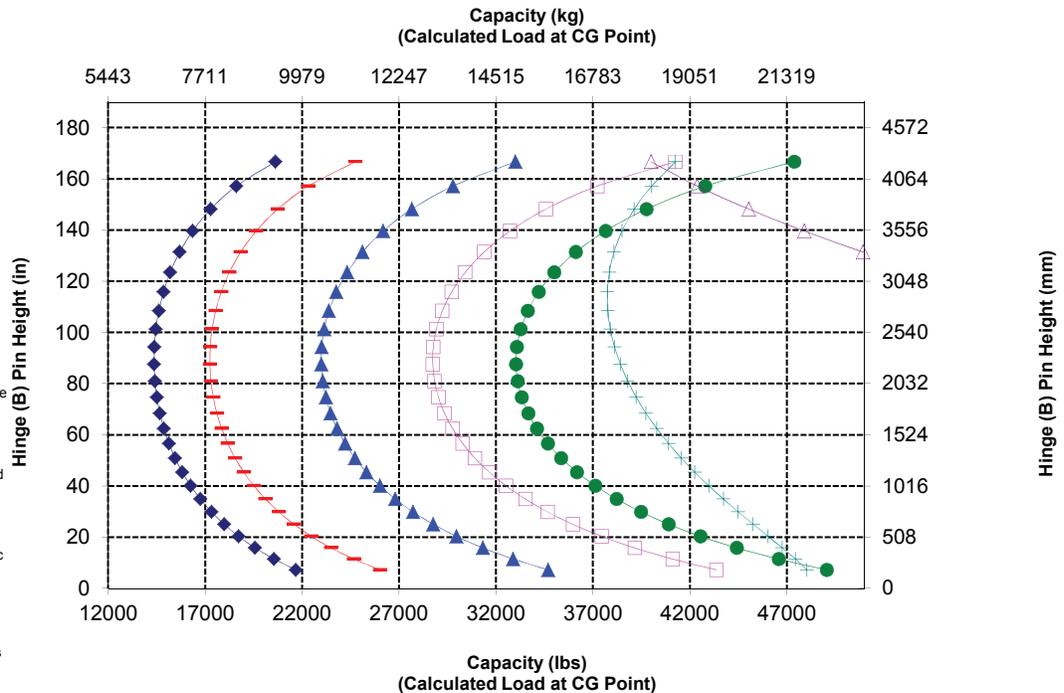
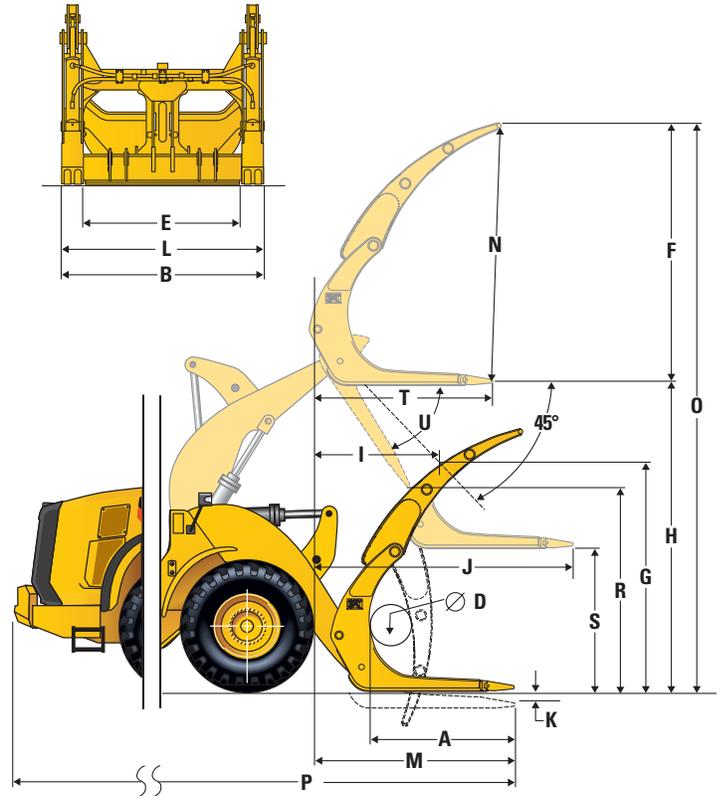
<b>A</b> Tine length	mm	1221
	in	48.1
<b>B</b> Fork width	mm	1943
	in	76.5
End area	m <sup>2</sup>	3.1
	ft <sup>2</sup>	33
<b>C</b> Inside Height (only applies to double top clamp)	mm	0
	in	0
<b>D</b> Min. opening (only applies to millyard forks)	mm	N/A
	in	N/A
Operating Weight	kg	24703
	lbs	54459
<b>E</b> Distance inside of tine tips	mm	1402
	in	55
Static tipping load, articulated Fork level	kg	12034
	lbs	26530.7
Static tipping load, straight Fork level	kg	13840
	lbs	30510.8
<b>F</b> Max. height of fork (w/clamp open if applicable)	mm	3762
	in	148.1
<b>G</b> Clearance w/full lift, 45 deg dump (if max. dump <= 45)	mm	3076
	in	121.1
<b>H</b> Clearance @ full lift fork level	mm	3915
	in	154.2
<b>I</b> Reach w/full lift, 45 deg dump (if max. dump <= 45)	mm	1106
	in	43.5
<b>J</b> Reach w/lift arm horizontal and fork level	mm	2587
	in	101.8
<b>K</b> Digging depth	mm	-135
	in	-5.3
<b>L</b> Width over tines	mm	1938
	in	76.3
<b>M</b> Reach @ ground level	mm	1945
	in	77
<b>N</b> Max. opening across tine and clamp	mm	3465
	in	136.4
<b>O</b> Overall height of fork @ full lift and clamp open	mm	7677
	in	302.3
<b>P</b> Overall length Tip of tine to rear of machine	mm	8861
	in	348.9
<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	1832.0
	in	72.1
<b>T</b> Reach @ full lift and fork level	mm	1719.2
	in	67.7
<b>U</b> Max. discharge angle from horizontal	deg	45
	rad	0.8



# 966M Forestry Specifications

## Millyard Fork – Pin-On

<b>A</b> Tine length	mm	1611
	in	63.4
<b>B</b> Fork width	mm	2508
	in	98.8
End area	m <sup>2</sup>	1.59
	ft <sup>2</sup>	17
<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	662
	in	26
Operating Weight	kg	24955
	lbs	55015
<b>E</b> Distance inside of tine tips	mm	1907
	in	75
Static tipping load, articulated Fork level	kg	13032
	lbs	28730.0
Static tipping load, straight Fork level	kg	14982
	lbs	33028.3
<b>F</b> Max. height of fork (w/clamp open if applicable)	mm	2805
	in	110.4
<b>G</b> Clearance w/full lift, 45 deg dump (if max. dump <= 45)	mm	2847
	in	112.1
<b>H</b> Clearance @ full lift fork level	mm	3971
	in	156.3
<b>I</b> Reach w/full lift, 45 deg dump (if max. dump <= 45)	mm	1413
	in	55.6
<b>J</b> Reach w/lift arm horizontal and fork level	mm	2965
	in	116.7
<b>K</b> Digging depth	mm	-79
	in	-3.1
<b>L</b> Width over tines	mm	2413
	in	95.0
<b>M</b> Reach @ ground level	mm	2278
	in	90
<b>N</b> Max. opening across tine and clamp	mm	2727
	in	107.4
<b>O</b> Overall height of fork @ full lift and clamp open	mm	6776
	in	266.8
<b>P</b> Overall length Tip of tine to rear of machine	mm	9194
	in	362.0
<b>R</b> Clearance @ full lift and max. dump Discharge (if <= 45)	mm	2851
	in	112.2
<b>S</b> Clearance w/horizontal lift arms and fork level	mm	1887.8
	in	74.3
<b>T</b> Reach @ full lift and fork level	mm	2098.0
	in	82.6
<b>U</b> Max. discharge angle from horizontal	deg	45
	rad	0.8



**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.

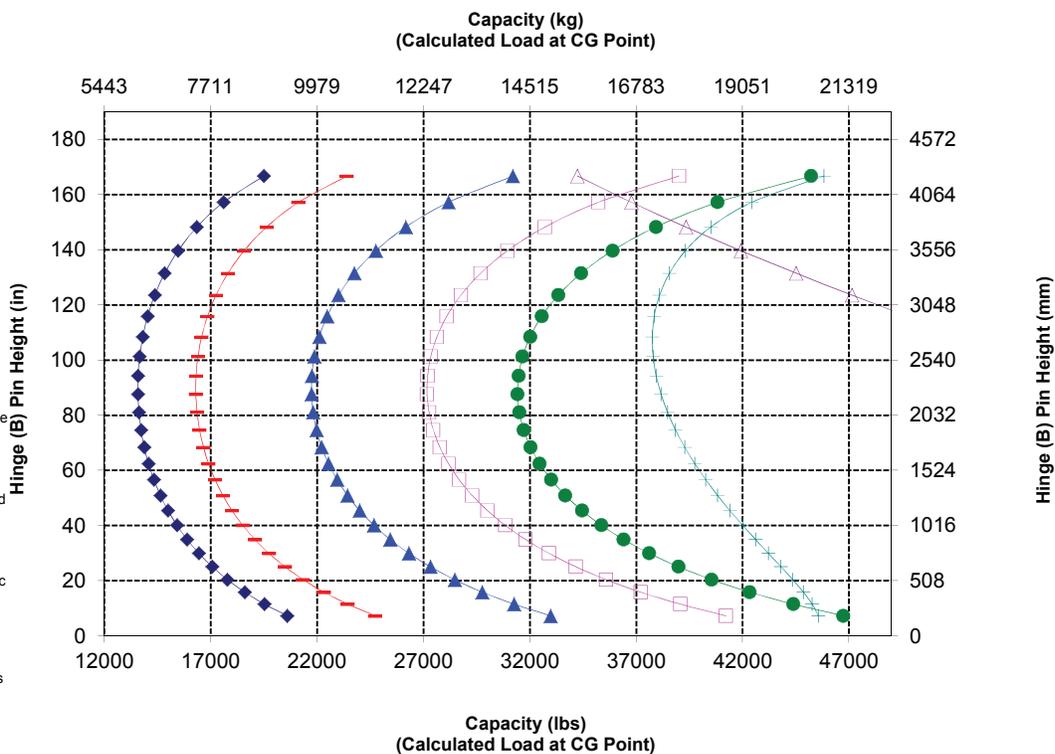
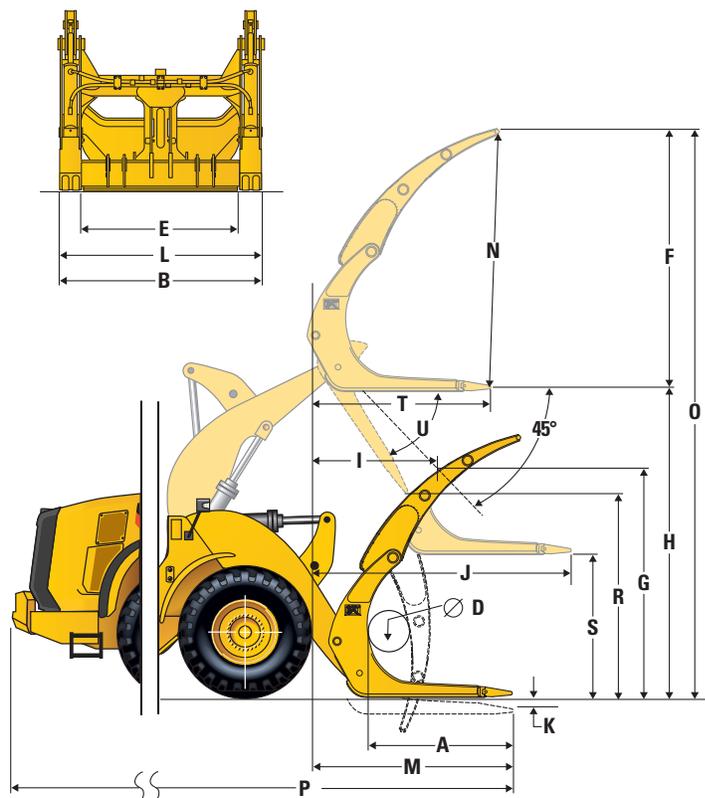
Specifications and ratings conform to the following standards: SAE\* J1197, SAE J732, CEN\*\* EN 474-3.

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

## Millyard Fork – 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	25442
	lbs	56089
<b>E</b> Distance inside of tine tips	mm	1780
	in	70
Static tipping load, articulated Fork level	kg	12325
	lbs	27172.8
Static tipping load, straight Fork level	kg	14254
	lbs	31425.0
<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	2742
	in	108.0
<b>H</b> Clearance @ full lift fork level	mm	3975
	in	156.5
<b>I</b> Reach w/full lift, 45 deg dump (if max. dump <= 45)	mm	1524
	in	60.0
<b>J</b> Reach w/lift arm horizontal and fork level	mm	3117
	in	122.7
<b>K</b> Digging depth	mm	-75
	in	-2.9
<b>L</b> Width over tines	mm	2286
	in	90.0
<b>M</b> Reach @ ground level	mm	2427
	in	96
<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	6818
	in	268.4
<b>P</b> Overall length Tip of tine to rear of machine	mm	9343
	in	367.8
<b>R</b> Clearance @ full lift and max. dump Discharge (if <= 45)	mm	2479
	in	97.6
<b>S</b> Clearance w/horizontal lift arms and fork level	mm	1891.9
	in	74.5
<b>T</b> Reach @ full lift and fork level	mm	2250.0
	in	88.6
<b>U</b> Max. discharge angle from horizontal	deg	62
	rad	1.1



**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.

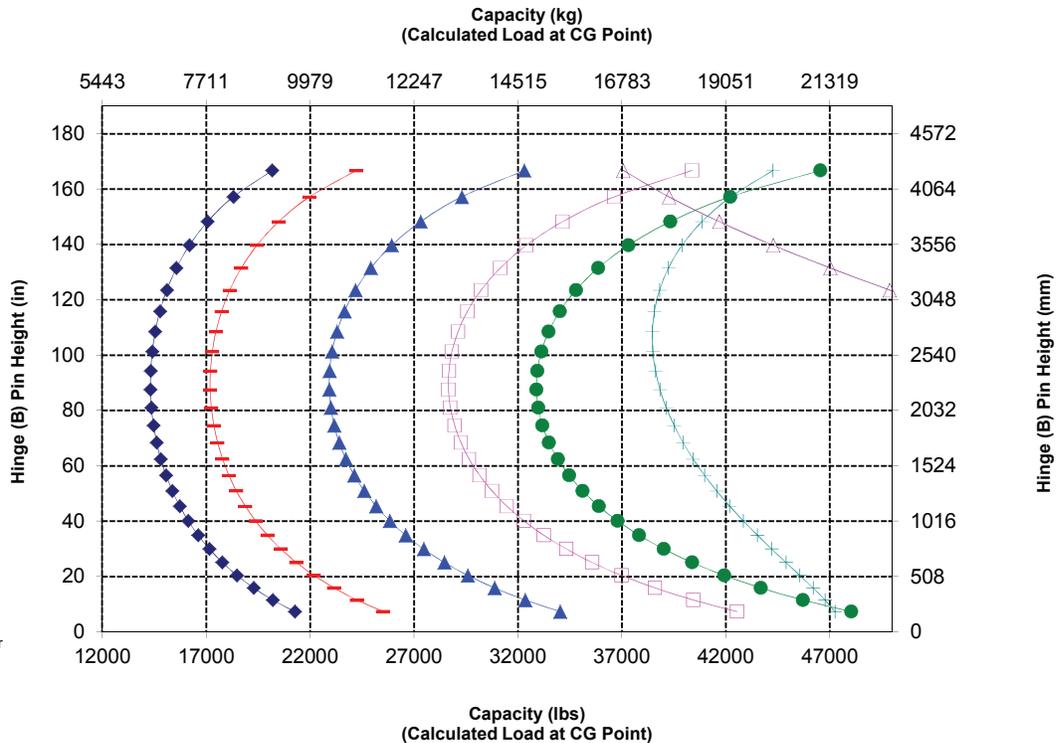
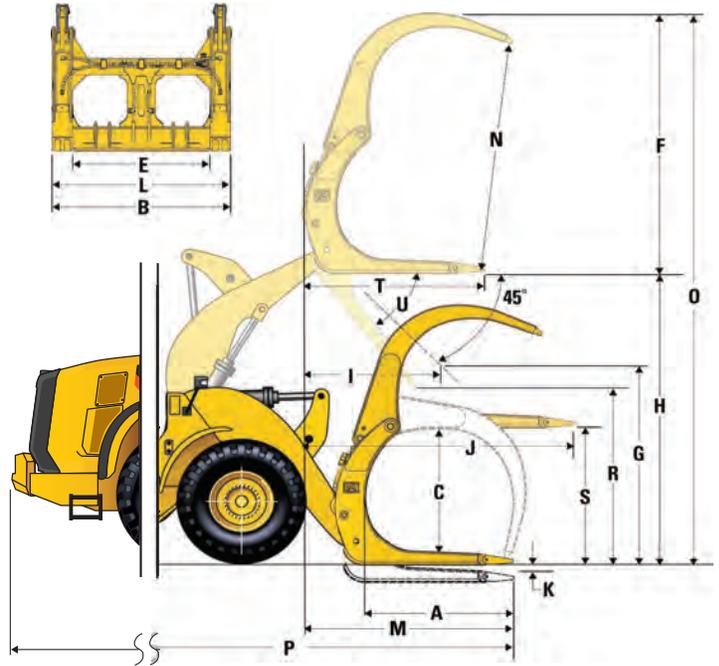
The rated operating load for a loader equipped with a pallet fork is determined by:  
SAE J1197: 50% of full turn static tipping load or hydraulic limit.  
CEN EN 474-3: 60% of full turn static tipping load on rough terrain or hydraulic limit.  
CEN EN 474-3: 80% of full turn static tipping load on firm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

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

# 966M Forestry Specifications

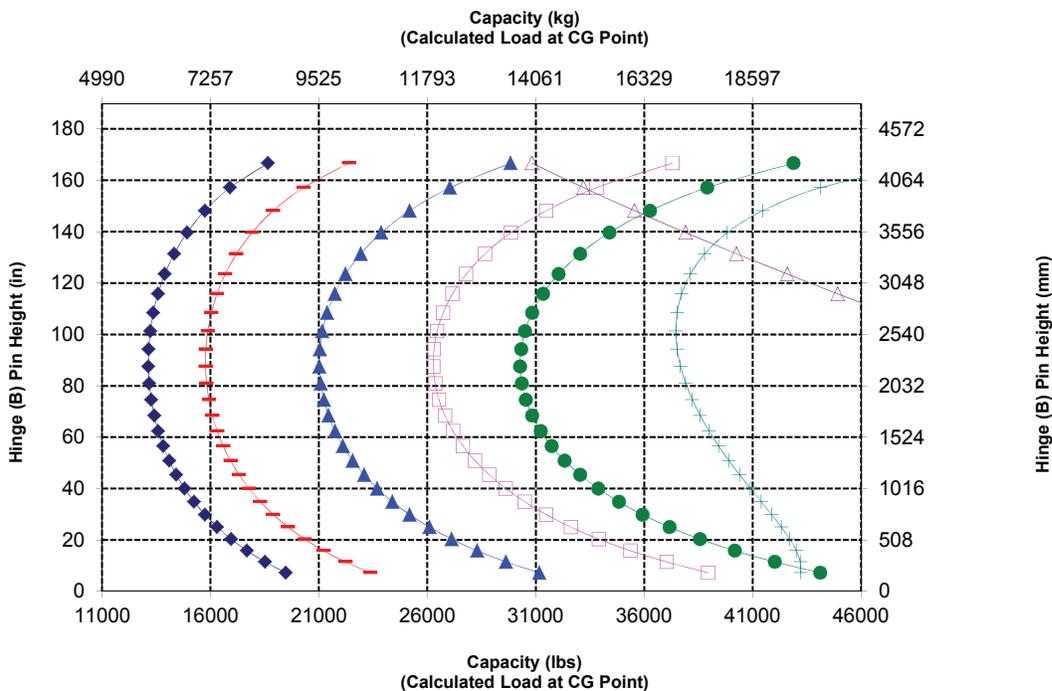
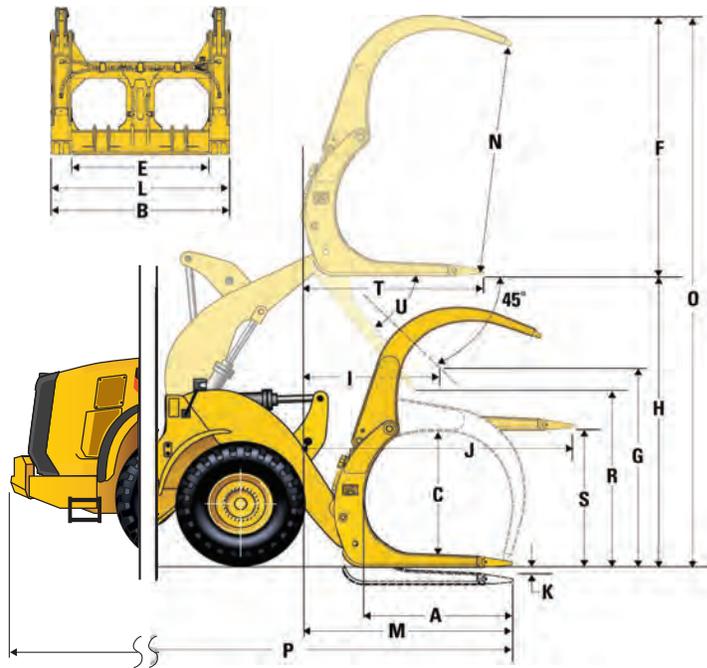
## Logging Fork, Double Clamp – Pin-On

<b>A</b> Tine length	mm	1609
	in	63.4
<b>B</b> Fork width	mm	2498
	in	98.3
End area	m <sup>2</sup>	1.91
	ft <sup>2</sup>	21
<b>C</b> Inside Height (only applies to double top clamp)	mm	1376
	in	54
<b>D</b> Min. opening (only applies to millyard forks)	mm	N/A
	in	N/A
Operating Weight	kg	24686
	lbs	54422
<b>E</b> Distance inside of tine tips	mm	1892
	in	74
Static tipping load, articulated Fork level	kg	12998
	lbs	28655.7
Static tipping load, straight Fork level	kg	14919
	lbs	32890.4
<b>F</b> Max. height of fork (w/clamp open if applicable)	mm	2943
	in	115.9
<b>G</b> Clearance w/full lift, 45 deg dump (if max. dump <= 45)	mm	2849
	in	112.1
<b>H</b> Clearance @ full lift fork level	mm	3971
	in	156.3
<b>I</b> Reach w/full lift, 45 deg dump (if max. dump <= 45)	mm	1412
	in	55.6
<b>J</b> Reach w/lift arm horizontal and fork level	mm	2963
	in	116.7
<b>K</b> Digging depth	mm	-79
	in	-3.1
<b>L</b> Width over tines	mm	2414
	in	95.0
<b>M</b> Reach @ ground level	mm	2276
	in	90
<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	6915
	in	272.2
<b>P</b> Overall length Tip of tine to rear of machine	mm	9192
	in	361.9
<b>R</b> Clearance @ full lift and max. dump Discharge (if <= 45)	mm	2852
	in	112.3
<b>S</b> Clearance w/horizontal lift arms and fork level	mm	1887.7
	in	74.3
<b>T</b> Reach @ full lift and fork level	mm	2095.8
	in	82.5
<b>U</b> Max. discharge angle from horizontal	deg	45
	rad	0.8



## Logging Fork – Fusion

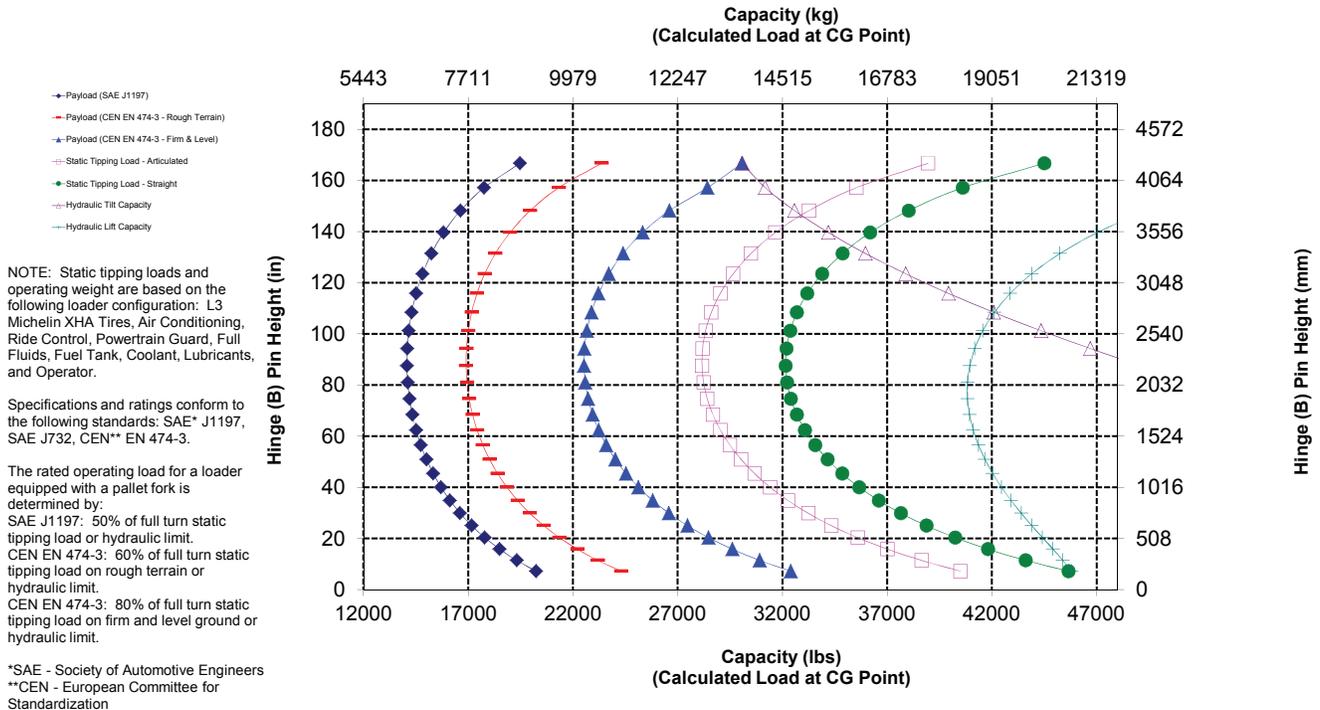
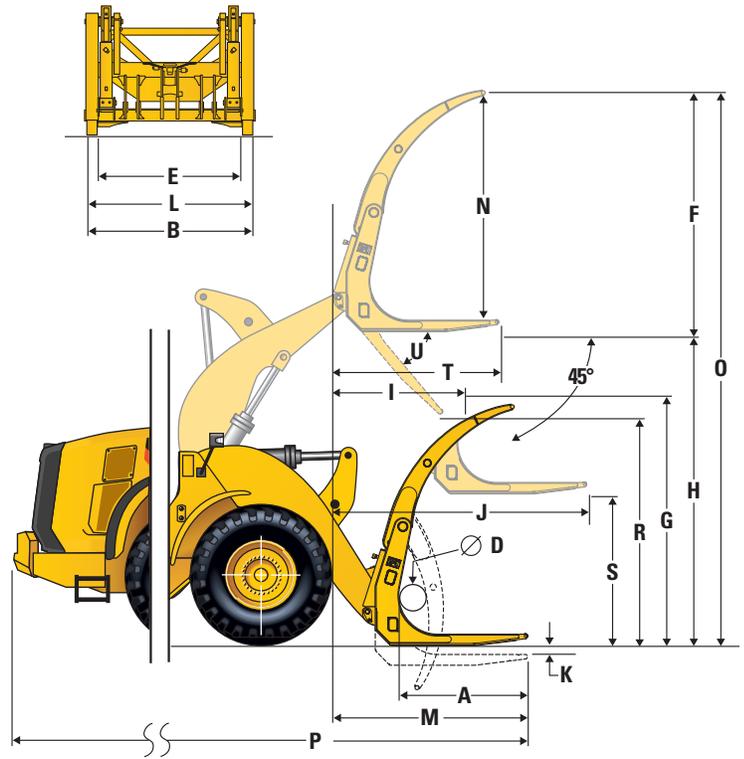
<b>A</b> Tine length	mm	1609
	in	63.3
<b>B</b> Fork width	mm	2498
	in	98.3
End area	m <sup>2</sup>	1.9
	ft <sup>2</sup>	20
<b>C</b> Inside Height (only applies to double top clamp)	mm	1376
	in	54
<b>D</b> Min. opening (only applies to millyard forks)	mm	N/A
	in	N/A
Operating Weight	kg	25367
	lbs	55923
<b>E</b> Distance inside of tine tips	mm	1892
	in	74
Static tipping load, articulated Fork level	kg	11917
	lbs	26272.6
Static tipping load, straight Fork level	kg	13733
	lbs	30275.3
<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	2752
	in	108.3
<b>H</b> Clearance @ full lift fork level	mm	3975
	in	156.5
<b>I</b> Reach w/full lift, 45 deg dump (if max. dump <= 45)	mm	1514
	in	59.6
<b>J</b> Reach w/lift arm horizontal and fork level	mm	3104
	in	122.2
<b>K</b> Digging depth	mm	-75
	in	-3.0
<b>L</b> Width over tines	mm	2414
	in	95.0
<b>M</b> Reach @ ground level	mm	2414
	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	6919
	in	272.4
<b>P</b> Overall length Tip of tine to rear of machine	mm	9330
	in	367.3
<b>R</b> Clearance @ full lift and max. dump Discharge (if <= 45)	mm	2458
	in	96.8
<b>S</b> Clearance w/horizontal lift arms and fork level	mm	1891.7
	in	74.5
<b>T</b> Reach @ full lift and fork level	mm	2236.8
	in	88.1
<b>U</b> Max. discharge angle from horizontal	deg	65
	rad	1.1



# 966M Forestry Specifications

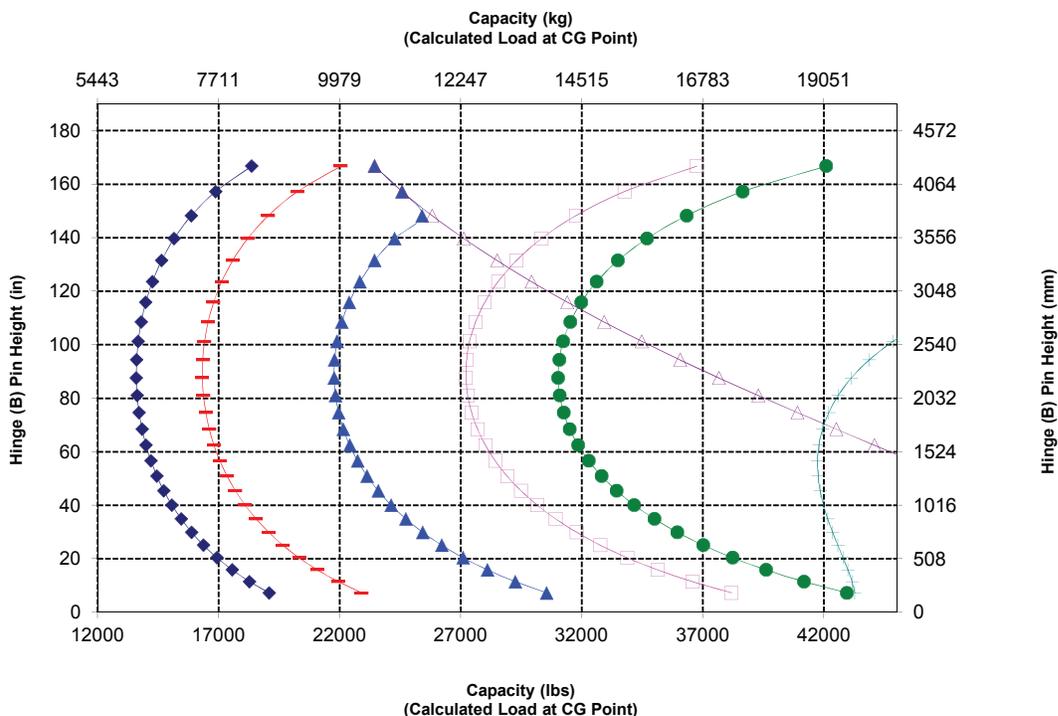
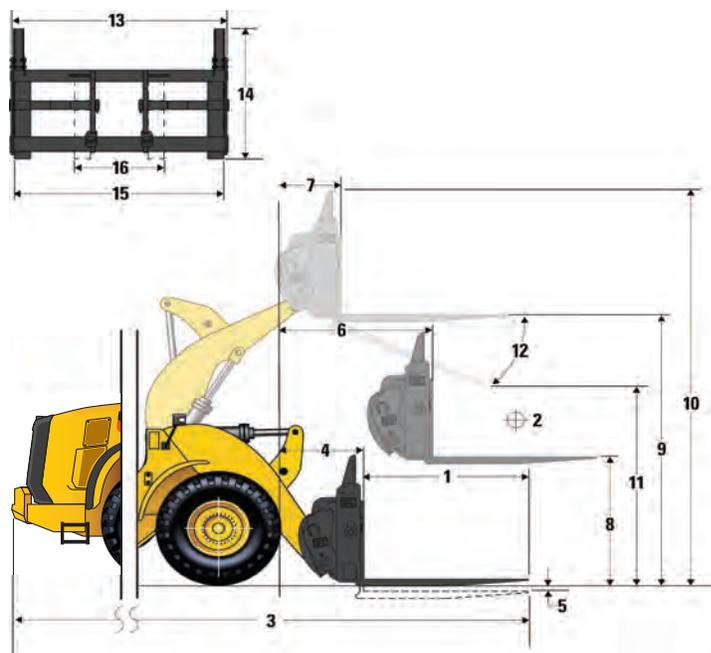
## Millyard Pole Fork – Pin-On

<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>	1.58
	ft <sup>2</sup>	17
<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	457
	in	18
Operating Weight	kg	24159
	lbs	53260
<b>E</b> Distance inside of tine tips	mm	1904
	in	75
Static tipping load, articulated Fork level	kg	12772
	lbs	28158.1
Static tipping load, straight Fork level	kg	14582
	lbs	32148.3
<b>F</b> Max. height of fork (w/clamp open if applicable)	mm	3154
	in	124.2
<b>G</b> Clearance w/full lift, 45 deg dump (if max. dump <= 45)	mm	4303
	in	169.4
<b>H</b> Clearance @ full lift fork level	mm	3909
	in	153.9
<b>I</b> Reach w/full lift, 45 deg dump (if max. dump <= 45)	mm	2402
	in	94.6
<b>J</b> Reach w/lift arm horizontal and fork level	mm	3244
	in	127.7
<b>K</b> Digging depth	mm	-142
	in	-5.6
<b>L</b> Width over tines	mm	2184
	in	86.0
<b>M</b> Reach @ ground level	mm	2607
	in	103
<b>N</b> Max. opening across tine and clamp	mm	2931
	in	115.4
<b>O</b> Overall height of fork @ full lift and clamp open	mm	7063
	in	278.1
<b>P</b> Overall length Tip of tine to rear of machine	mm	9523
	in	374.9
<b>R</b> Clearance @ full lift and max. dump Discharge (if <= 45)	mm	5734
	in	225.7
<b>S</b> Clearance w/horizontal lift arms and fork level	mm	1825.1
	in	71.9
<b>T</b> Reach @ full lift and fork level	mm	2376.3
	in	93.6
<b>U</b> Max. discharge angle from horizontal	deg	58
	rad	1.0



## Log and Lumber Fork, No TC – Fusion

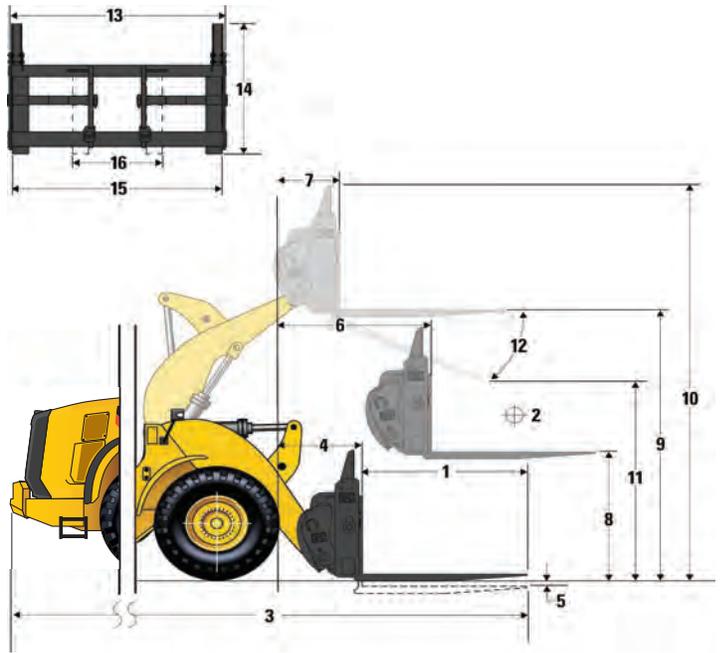
1	Tine Length	mm	1524
		in	60.0
2	Load Center	mm	762
		in	30.0
	Static Tipping Load - Straight (Forks Level)	kg	14074
		lbs	31020
	Static Tipping Load - Articulated (Forks Level)	kg	12347
		lbs	27213
	Rated Load (SAE J1197 - 50% FTSTL)	kg	6174
		lbs	13606
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	7408
		lbs	16328
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	9878
		lbs	21770
3	Maximum Overall Length	mm	9590
		in	377.5
4	Reach with Forks at Ground Level	mm	1150
		in	45.3
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	-13
		in	-0.5
6	Reach with Arms Horizontal and Forks Level	mm	1746
		in	68.7
7	Reach with Fork at Maximum Height	mm	878
		in	34.6
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1953
		in	76.9
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4037
		in	158.9
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5547
		in	218.4
11	Clearance at Full Lift and Max Dump	mm	2536
		in	99.8
12	Max Discharge Angle from Horizontal	deg	49
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	23930
		lbs	52741



# 966M Forestry Specifications

## Log and Lumber Fork, 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	13411
		lbs	29559
	Static Tipping Load - Articulated (Forks Level)	kg	11758
		lbs	25916
	Rated Load (SAE J1197 - 50% FTSTL)	kg	5879
		lbs	12958
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	7055
		lbs	15549
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	9396
		lbs	20709
3	Maximum Overall Length	mm	9894
		in	389.5
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	-13
		in	-0.5
6	Reach with Arms Horizontal and Forks Level	mm	1746
		in	68.7
7	Reach with Fork at Maximum Height	mm	878
		in	34.6
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1953
		in	76.9
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4037
		in	158.9
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5547
		in	218.4
11	Clearance at Full Lift and Max Dump	mm	2306
		in	90.8
12	Max Discharge Angle from Horizontal	deg	49
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	23992
		lbs	52878



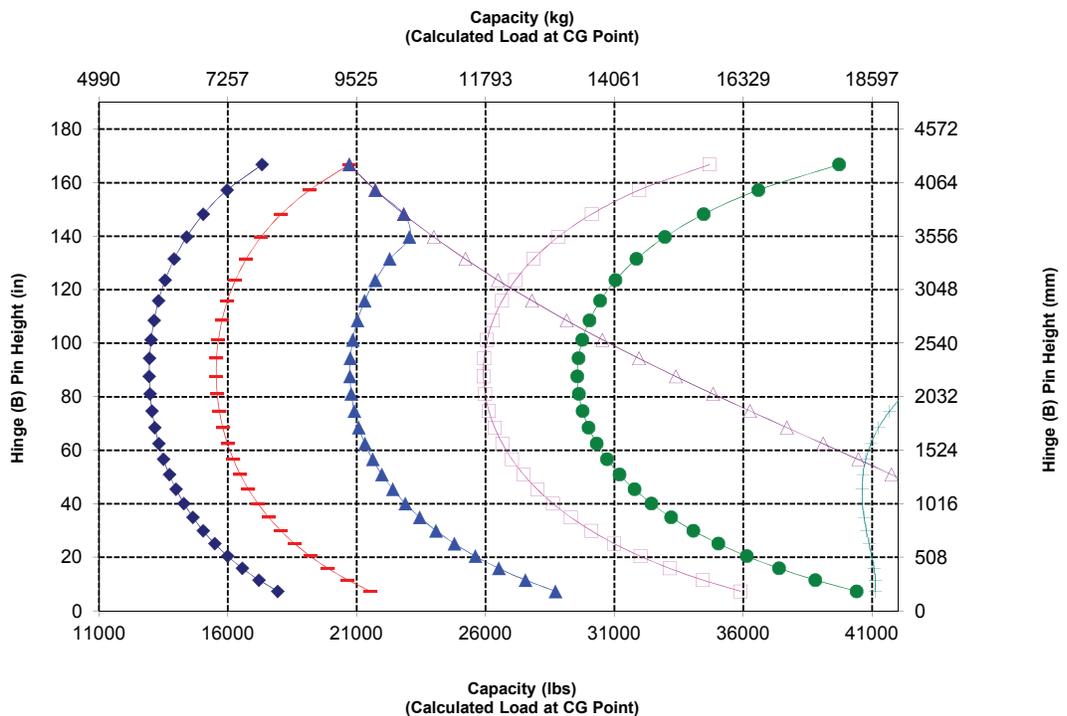
- ◆ Payload (SAE J1197)
- ◆ Payload (CEN EN 474-3 - Rough Terrain)
- ◆ Payload (CEN EN 474-3 - Firm & Level)
- ◆ Static Tipping Load - Articulated
- ◆ Static Tipping Load - Straight
- ◆ Hydraulic Tilt Capacity
- ◆ Hydraulic Lift Capacity

**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.

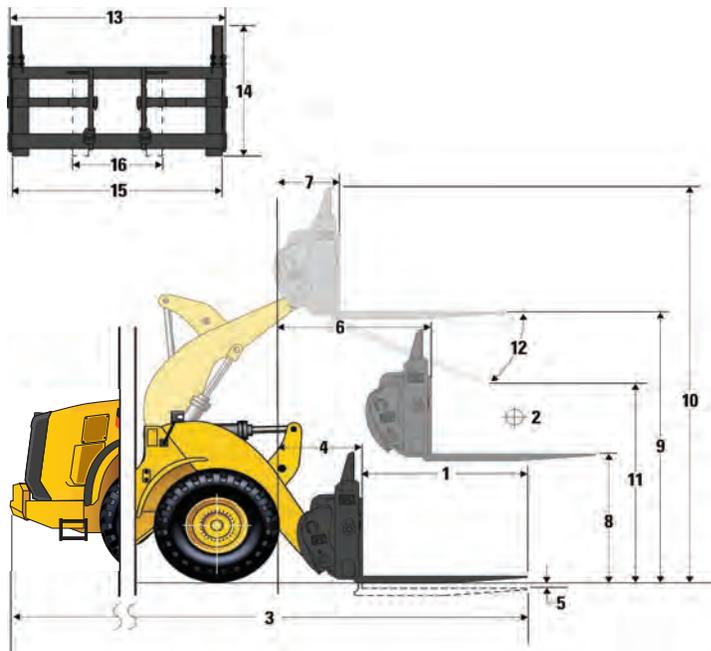
The rated operating load for a loader equipped with a pallet fork is determined by:  
 SAE J1197: 50% of full turn static tipping load or hydraulic limit.  
 CEN EN 474-3: 60% of full turn static tipping load on rough terrain or hydraulic limit.  
 CEN EN 474-3: 80% of full turn static tipping load on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

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



## Log and Lumber Fork, 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	12224
		lbs	26942
	Static Tipping Load - Articulated (Forks Level)	kg	10703
		lbs	23589
	Rated Load (SAE J1197 - 50% FTSTL)	kg	5351
		lbs	11794
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	6422
		lbs	14153
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	7559
		lbs	16659
3	Maximum Overall Length	mm	10504
		in	413.5
4	Reach with Forks at Ground Level	mm	1150
		in	45.3
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	-13
		in	-0.5
6	Reach with Arms Horizontal and Forks Level	mm	1746
		in	68.7
7	Reach with Fork at Maximum Height	mm	879
		in	34.6
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1953
		in	76.9
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4037
		in	158.9
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5547
		in	218.4
11	Clearance at Full Lift and Max Dump	mm	1847
		in	72.7
12	Max Discharge Angle from Horizontal	deg	49
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	24120
		lbs	53160

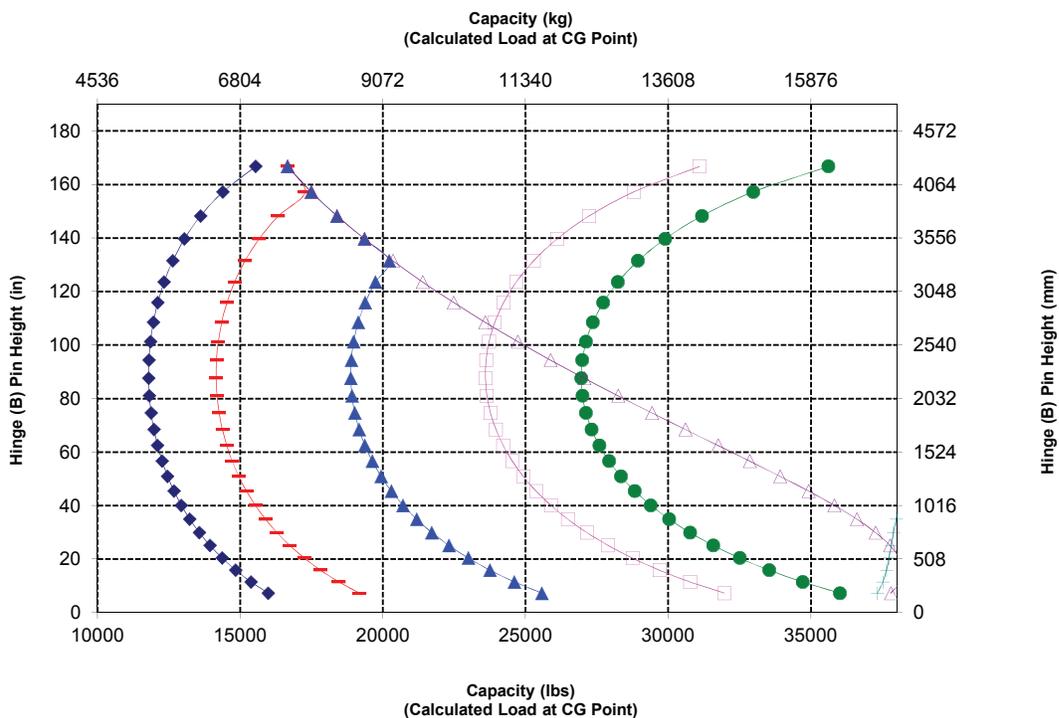


**NOTE:** Static tipping loads and operating weight are based on the following loader configuration: L3 Michelin XHA Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

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.

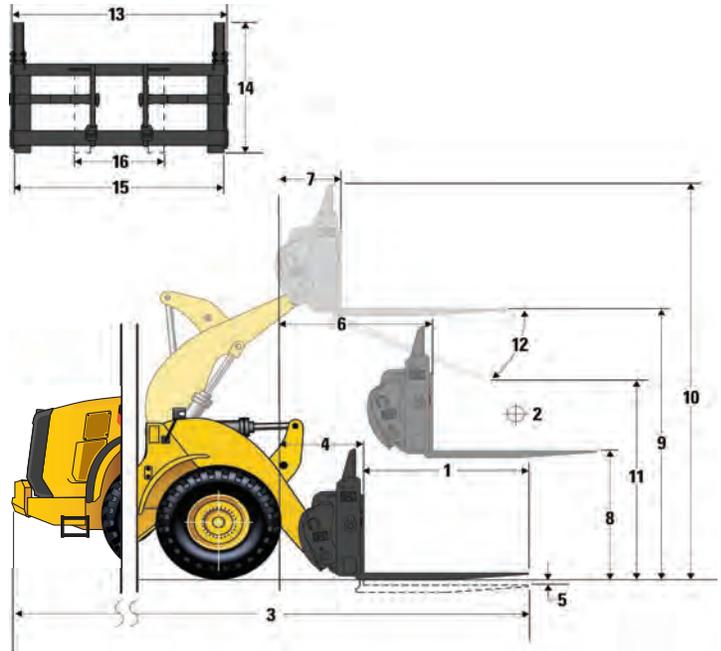
\*SAE - Society of Automotive Engineers  
 \*\*CEN - European Committee for Standardization



# 966M Forestry Specifications

## Log and Lumber Fork, 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	14088
		lbs	31049
	Static Tipping Load - Articulated (Forks Level)	kg	12357
		lbs	27235
	Rated Load (SAE J1197 - 50% FTSTL)	kg	6178
		lbs	13617
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	7414
		lbs	16341
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	9886
		lbs	21788
3	Maximum Overall Length	mm	9590
		in	377.5
4	Reach with Forks at Ground Level	mm	1150
		in	45.3
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	-13
		in	-0.5
6	Reach with Arms Horizontal and Forks Level	mm	1746
		in	68.7
7	Reach with Fork at Maximum Height	mm	878
		in	34.6
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1953
		in	76.9
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4037
		in	158.9
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5550
		in	218.5
11	Clearance at Full Lift and Max Dump	mm	2536
		in	99.8
12	Max Discharge Angle from Horizontal	deg	49
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	23950
		lbs	52785



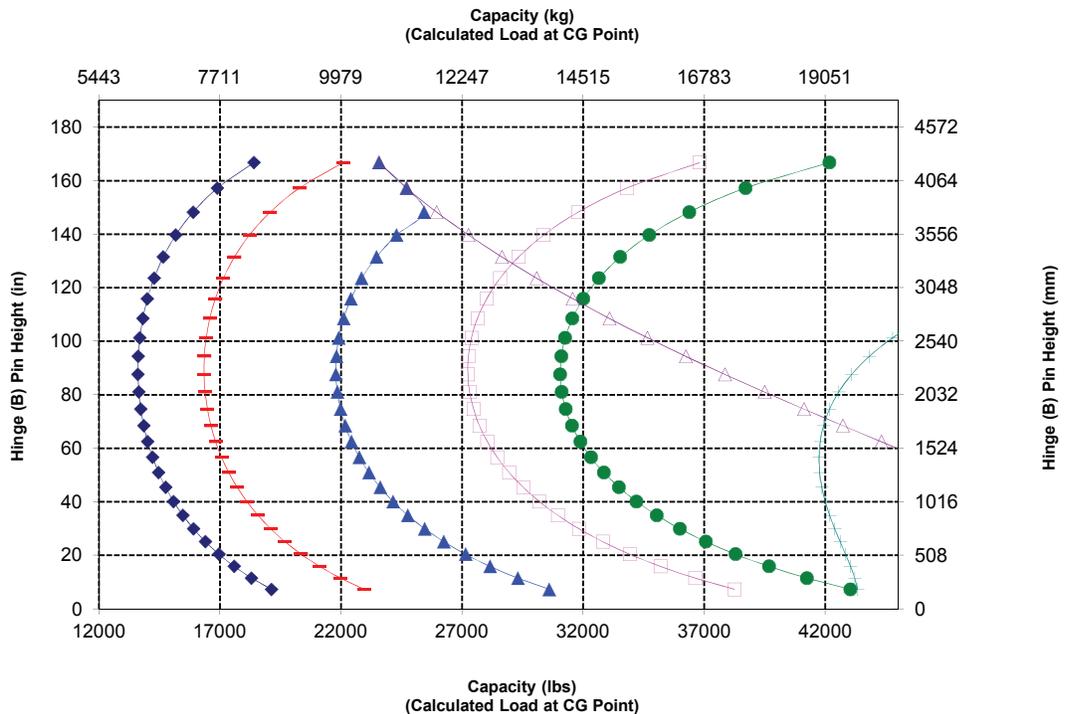
- ◆ Payload (SAE J1197)
- ◆ Payload (CEN EN 474-3 - Rough Terrain)
- ◆ Payload (CEN EN 474-3 - Firm & Level)
- ◆ Static Tipping Load - Articulated
- ◆ Static Tipping Load - Straight
- ◆ Hydraulic Tilt Capacity
- ◆ Hydraulic Lift Capacity

**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.

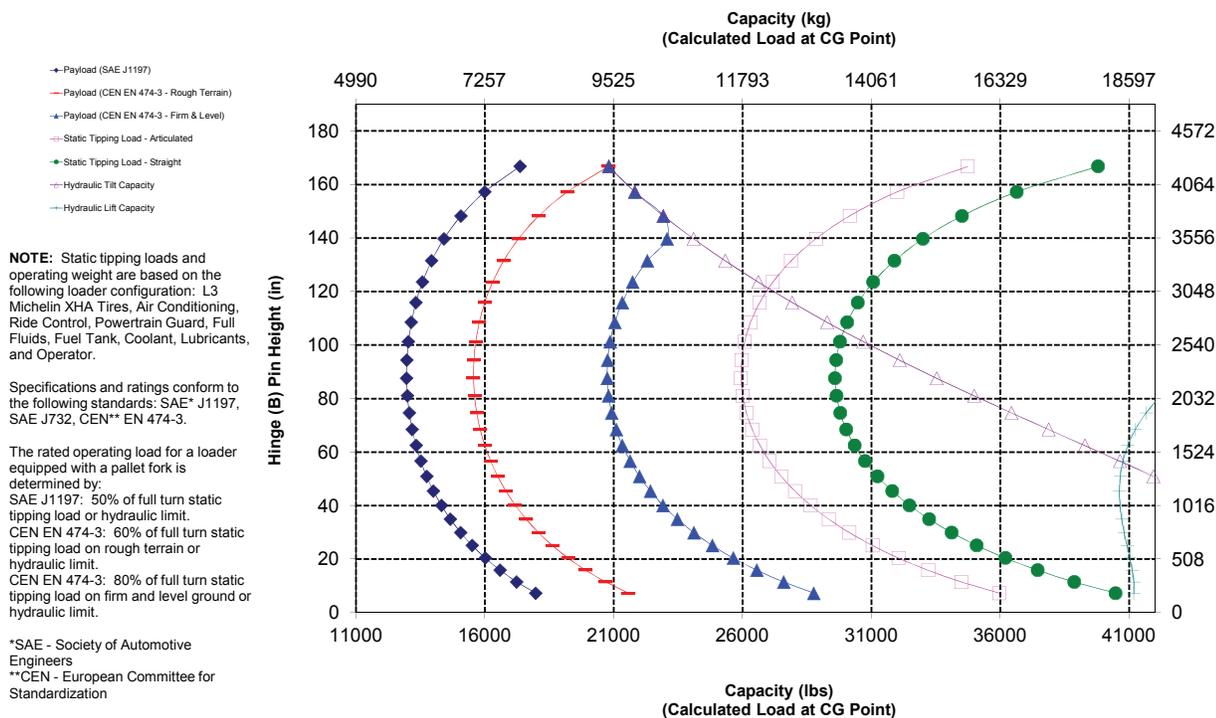
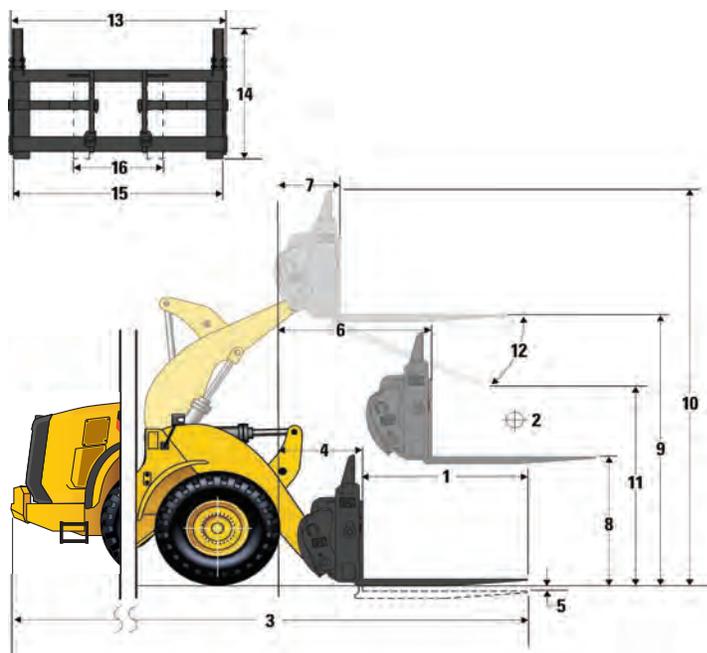
The rated operating load for a loader equipped with a pallet fork is determined by:  
 SAE J1197: 50% of full turn static tipping load or hydraulic limit.  
 CEN EN 474-3: 60% of full turn static tipping load on rough terrain or hydraulic limit.  
 CEN EN 474-3: 80% of full turn static tipping load on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

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 \*\*CEN - European Committee for Standardization



## Log and Lumber Fork, No TC – Fusion

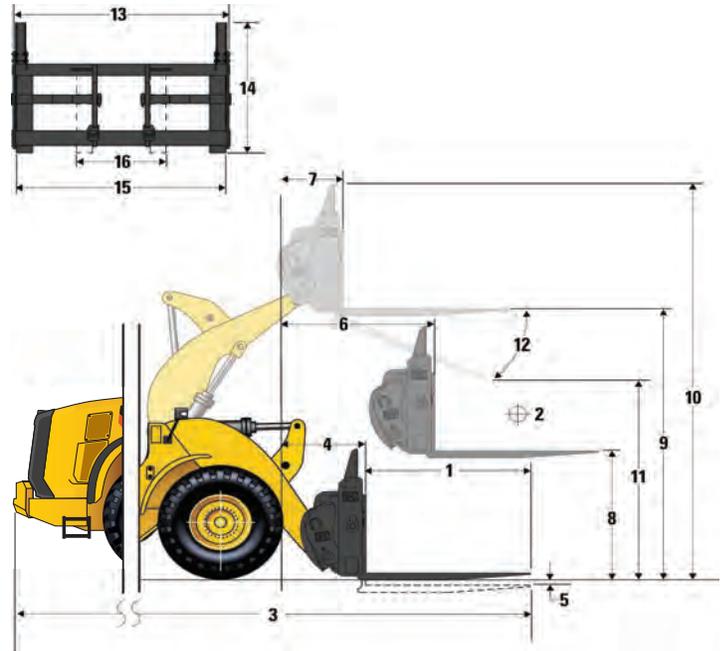
1	Tine Length	mm	1829
		in	72.0
2	Load Center	mm	915
		in	36.0
	Static Tipping Load - Straight (Forks Level)	kg	13423
		lbs	29584
	Static Tipping Load - Articulated (Forks Level)	kg	11767
		lbs	25934
	Rated Load (SAE J1197 - 50% FTSTL)	kg	5883
		lbs	12967
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	7060
		lbs	15561
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	9414
		lbs	20747
3	Maximum Overall Length	mm	9895
		in	389.6
4	Reach with Forks at Ground Level	mm	1150
		in	45.3
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	-13
		in	-0.5
6	Reach with Arms Horizontal and Forks Level	mm	1746
		in	68.7
7	Reach with Fork at Maximum Height	mm	878
		in	34.6
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1953
		in	76.9
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4037
		in	158.9
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5550
		in	218.5
11	Clearance at Full Lift and Max Dump	mm	2306
		in	90.8
12	Max Discharge Angle from Horizontal	deg	49
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	12600
		lbs	27770
	Operating Weight	kg	24012
		lbs	52922



# 966M Forestry Specifications

## Log and Lumber Fork, 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	12233
		lbs	26962
	Static Tipping Load - Articulated (Forks Level)	kg	10709
		lbs	23603
	Rated Load (SAE J1197 - 50% FTSTL)	kg	5354
		lbs	11801
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	6425
		lbs	14162
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	7588
		lbs	16723
3	Maximum Overall Length	mm	10504
		in	413.5
4	Reach with Forks at Ground Level	mm	1150
		in	45.3
5	Ground to Top of Tine at Minimum Height and Fork Level	mm	-13
		in	-0.5
6	Reach with Arms Horizontal and Forks Level	mm	1746
		in	68.7
7	Reach with Fork at Maximum Height	mm	879
		in	34.6
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1953
		in	76.9
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4037
		in	158.9
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5550
		in	218.5
11	Clearance at Full Lift and Max Dump	mm	1847
		in	72.7
12	Max Discharge Angle from Horizontal	deg	49
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	10100
		lbs	22260
	Operating Weight	kg	24140
		lbs	53204



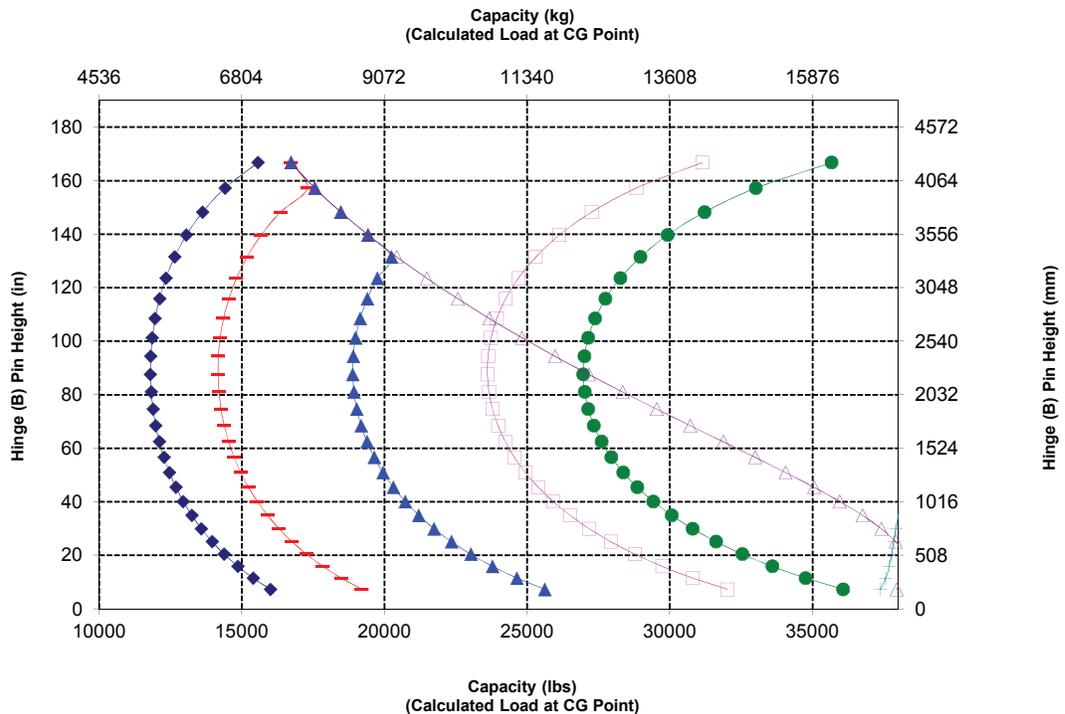
- ◆ Payload (SAE J1197)
- ◆ Payload (CEN EN 474-3 - Rough Terrain)
- ◆ Payload (CEN EN 474-3 - Firm & Level)
- ◆ Static Tipping Load - Articulated
- ◆ Static Tipping Load - Straight
- ◆ Hydraulic Tilt Capacity
- ◆ Hydraulic Lift Capacity

**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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## Woodchip Buckets – Pin-On and Fusion

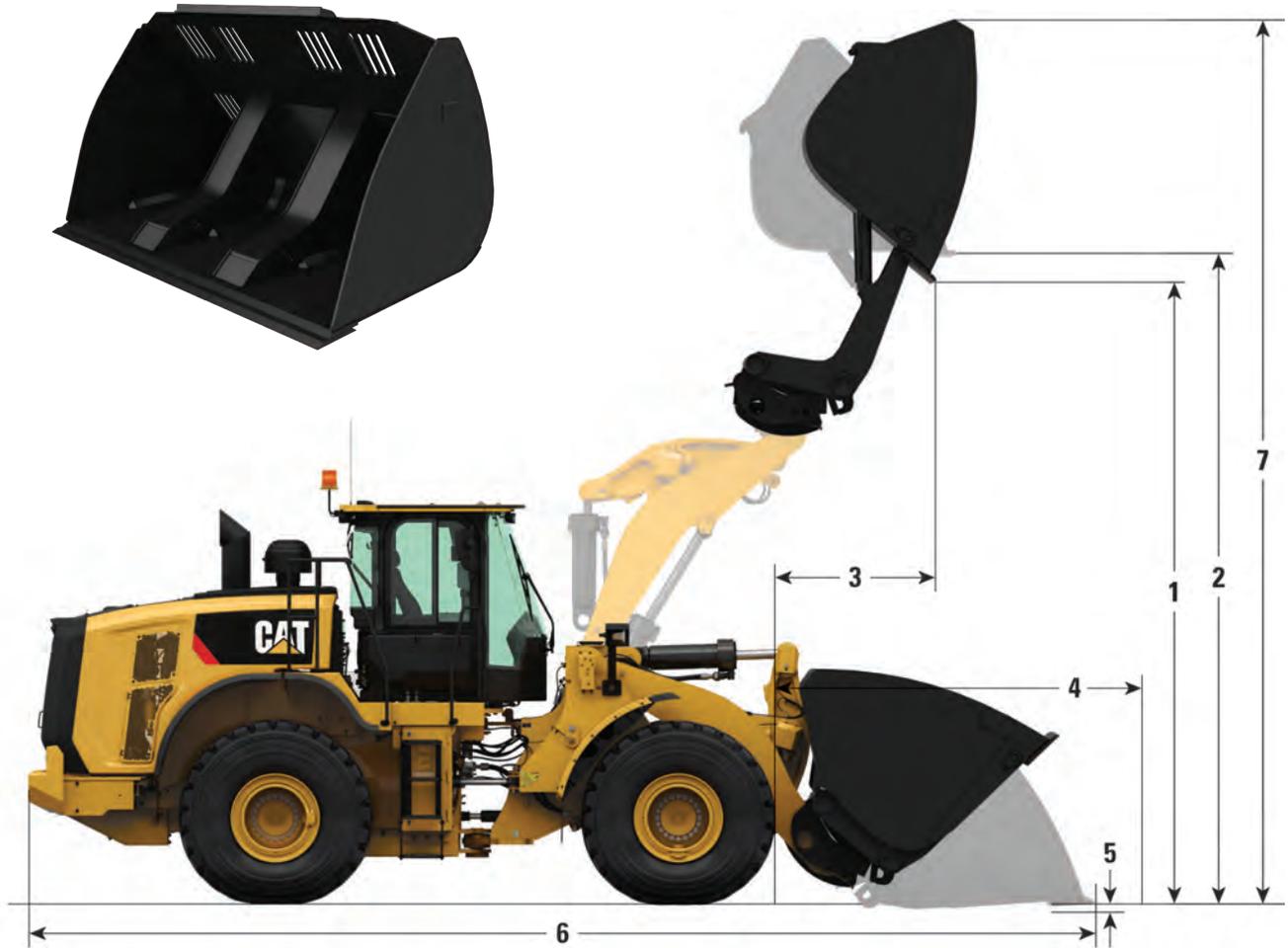


Package	966M Logger	
	Pin-On	Fusion
<b>Bucket Type</b>	<b>Bolt-On Cutting Edges</b>	<b>Bolt-On Cutting Edges</b>
<b>Edge Type</b>		
Capacity – Rated	m <sup>3</sup>	11.9
	yd <sup>3</sup>	15.50
Capacity - 110%	m <sup>3</sup>	13.1
	yd <sup>3</sup>	17.25
Width	mm	3943
	ft/in	12' 11"
Dump Clearance at Maximum Lift and 45° Discharge	mm	2432
	ft/in	7' 11"
Reach at Maximum Lift and 45° Discharge	mm	1735
	ft/in	5' 8"
Reach at Level Lift Arm and Bucket Level	mm	3486
	ft/in	11' 5"
Digging Depth	mm	144
	ft/in	5.6"
Overall Length	mm	9769
	ft/in	32' 1"
Overall Height with Bucket at Maximum Lift	mm	6679
	ft/in	21' 11"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	8026
	ft/in	26' 4"
Static Tipping Load, Straight (ISO)	kg	18 675
	lb	41,161
Static Tipping Load, Straight (Rigid Tire)	kg	20 250
	lb	44,632
Static Tipping Load, Articulated (ISO)	kg	16 181
	lb	35,662
Static Tipping Load, Articulated (Rigid Tire)	kg	17 777
	lb	39,180
Breakout Force	kN	141
	lbf	31,764
Operating Weight	kg	25 430
	lb	56,047

# 966M Forestry Specifications

## Light Material High Dump Buckets

All dimensions are approximate.



### Bucket Key Features

- High Dump bucket increases dump height 2.8 m (9'2") for largest size available on 966M
- 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 – Forestry Package

Package		966M Logger								
Bucket Type		Pin On			Fusion			VCE-ISO		
Edge Type		Bolt-On Cutting Edges								
Capacity – Rated	m <sup>3</sup>	7.60	9.20	11.10	7.60	9.20	11.10	7.60	9.20	11.10
	yd <sup>3</sup>	(10.00)	(12.00)	(14.50)	(10.00)	(12.00)	(14.50)	(10.00)	(12.00)	(14.50)
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	8.40	10.10	12.20	8.40	10.10	12.20	8.40	10.10	12.20
	yd <sup>3</sup>	(11.00)	(13.25)	(16.00)	(11.00)	(13.25)	(16.00)	(11.00)	(13.25)	(16.00)
Width	mm	3350	3656	3656	3350	3656	3656	3350	3656	3656
	ft/in	(10' 11")	(11' 11")	(11' 11")	(10' 11")	(11' 11")	(11' 11")	(10' 11")	(11' 11")	(11' 11")
<b>1</b> Dump Clearance at Max Lift, Max Rack, Bucket Rolled out to 45° Discharge	mm	4887	4832	4680	4905	4850	4698	5068	5013	4861
	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	5348	5348	5348	5366	5366	5366	5529	5529	5529
	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	1667	1725	1885	1677	1735	1894	1765	1823	1982
	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	3528	3608	3828	3548	3628	3848	3733	3813	4033
	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	94	94	94	94	94	94	94	94	94
	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	9795	9875	10095	9815	9895	10115	10000	10080	10300
	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	7255	7315	7483	7272	7332	7500	7435	7495	7663
	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	7795	7956	8023	7770	7930	7994	7819	7980	8049
	ft/in	25'7"	26'1"	26'4"	25'6"	26'0"	26'3"	25'8"	26'2"	26'5"
Static Tipping Load, Straight (With Tire Deflection)*	kg	17599	17321	16953	17137	16858	16496	16253	15980	15629
	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	19060	18793	18455	18589	18319	17986	17657	17392	17067
	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	15202	14928	14573	14750	14475	14125	13948	13678	13339
	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	16688	16425	16099	16226	15961	15640	15379	15118	14804
	lb	19,106	18,465	17,837	17,771	17,137	16,525	18,048	17,411	16,796
Breakout Force	kN	143	136	121	142	135	120	127	121	108
	lbf	24,747	23,123	20,598	23,678	22,141	19,766	23,430	21,913	19,569
Operating Weight*	kg	25701	25917	26124	26185	26401	26608	26344	26559	26767
	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, standard counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering and sound suppression.

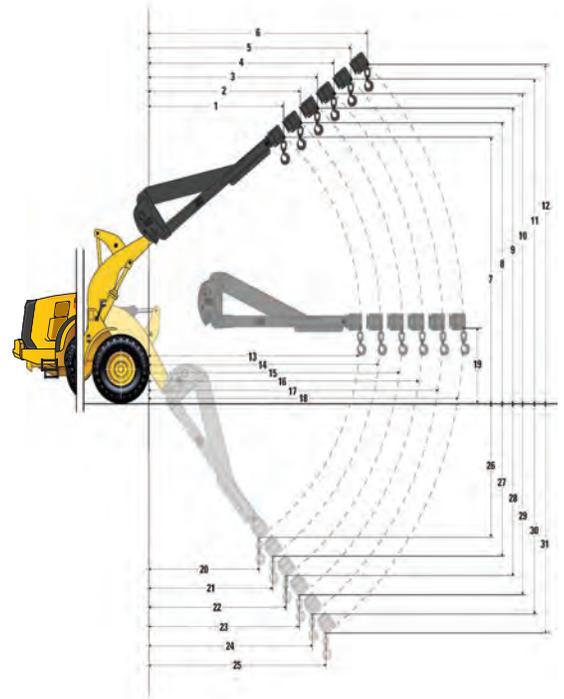
(With Tire Deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

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

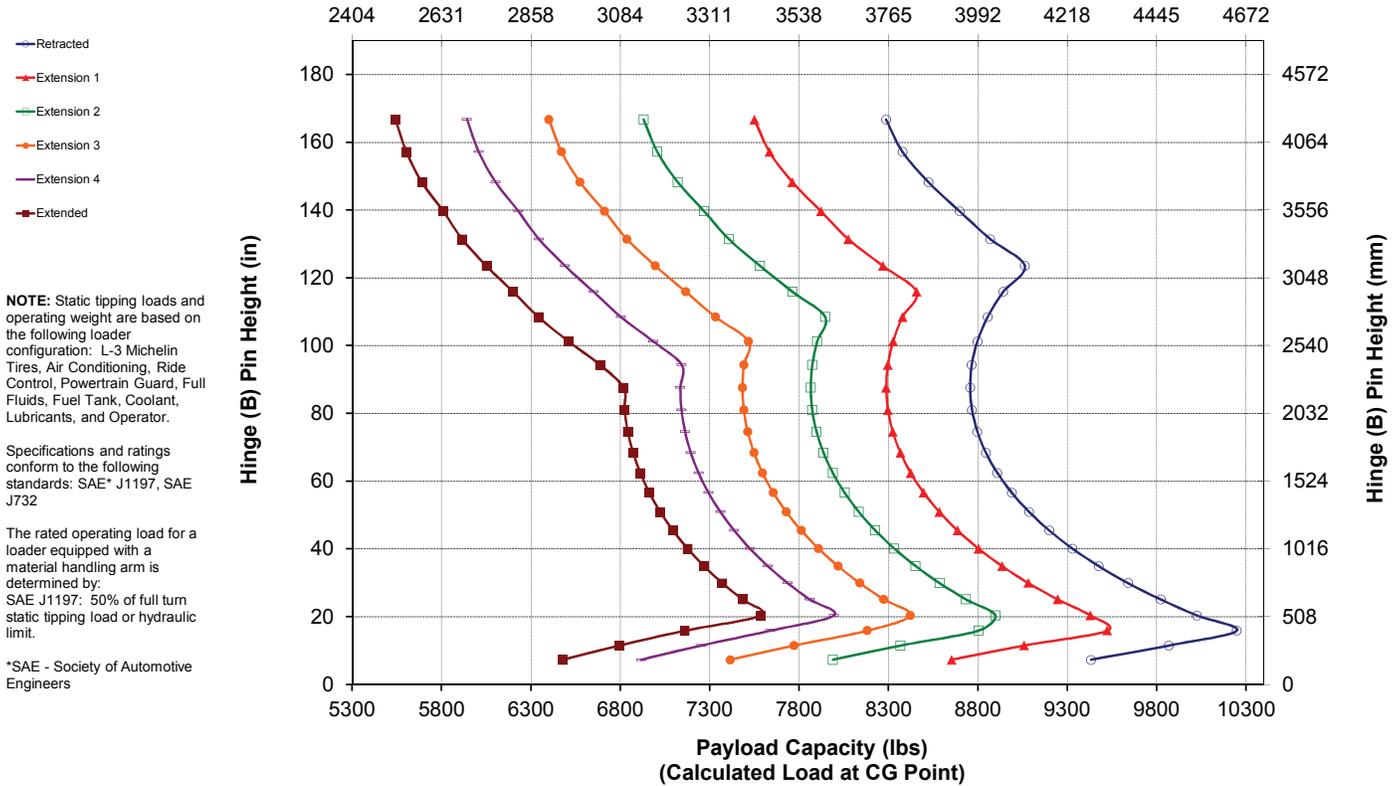
# 966M Forestry Specifications

## 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	1,826	1,939	2,052	2,165	2,278	2,391
	ft, in	5' 11"	6' 4"	6' 8"	7' 1"	7' 5"	7' 10"
Max Lift - Hook Height (7, 8, 9, 10, 11, 12)	mm	7,208	7,491	7,774	8,057	8,340	8,623
	ft, in	23' 7"	24' 6"	25' 6"	26' 5"	27' 4"	28' 3"
Level - Hook Reach (13, 14, 15, 16, 17, 18)	mm	4,556	4,861	5,165	5,470	5,775	6,080
	ft, in	14' 11"	15' 11"	16' 11"	17' 11"	18' 11"	19' 11"
Level - Hook Height (19)	mm	1,927	1,927	1,927	1,927	1,927	1,927
	ft, in	6' 3.8"	6' 3.8"	6' 3.8"	6' 3.8"	6' 3.8"	6' 3.8"
Min Lift - Hook Reach (20, 21, 22, 23, 24, 25)	mm	1,723	1,855	1,986	2,117	2,248	2,380
	ft, in	5' 7"	6' 1"	6' 6"	6' 11"	7' 4"	7' 9"
Min Lift - Hook Height (26, 27, 28, 29, 30, 31)	mm	(2,881)	(3,156)	(3,431)	(3,706)	(3,981)	(4,256)
	ft, in	-9' 6"	-10' 7"	-11' 8"	-12' 10"	-13' 11"	-13' 0"
Static Tipping Load, Straight	kg	9,037	8,552	8,115	7,721	7,362	7,034
	lb	19,917	18,848	17,887	17,016	16,225	15,503
Static Tipping Load, Articulated	kg	7,977	7,549	7,163	6,814	6,497	6,207
	lb	17,582	16,638	15,788	15,019	14,319	13,680
Operating Weight	kg	23,384	23,384	23,384	23,384	23,384	23,384
	lb	51,538	51,538	51,538	51,538	51,538	51,538



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



# 966M 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 air filter	✓	
Brakes, full hydraulic enclosed wet-disc with Integrated Braking System (IBS)	✓		Cab, pressurized and sound suppressed (ROPS/FOPS)	✓	
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 tie-off	✓	
Economy mode (selectable)	✓		Coat hook (2)	✓	
Engine, Cat C9.3 – meets Tier 3/ Stage IIIA equivalent or Tier 4 Final/ Stage V emission standards	✓		Cover, HVAC metallic		✓
Fan, radiator, on demand	✓		Door, remote opening system		✓
Fan, VPF (variable pitch fan), automatic and manual control		✓	EH controls, SAL (single axis lever) lift and tilt function	✓	
Fuel priming pump (electric)	✓		EH controls, joystick lift and tilt – additional integrated roller switches for 3 <sup>rd</sup> and 4 <sup>th</sup> functions		✓
Fuel/water separator	✓		EH controls, SAL 3 <sup>rd</sup> function – additional roller switch for 4 <sup>th</sup> function		✓
Parking brake, disc and caliper	✓		EH parking brake	✓	
Precleaner, engine air intake	✓		Ergonomic cab access ladders and handrails	✓	
Radiator, high debris with wider fin spacing		✓	Filter, carbon fresh air		✓
Switch, transmission neutralizer lockout	✓		Horn, electric	✓	
Torque converter, locking clutch with free wheel stator	✓		Light, two dome (cab)	✓	
Transmission, automatic planetary power shift (4F/4R)	✓		Mirrors, heated rearview external with integrated spot mirrors		✓
<b>CAT TECHNOLOGY</b>			Mirrors, rearview external with integrated spot mirrors	✓	
Detect technologies:			Multi-function 18 cm (7 in) color touch-screen display for rear vision camera, clock and machine parameters	✓	
Rear vision camera	✓		Post mounted membrane 16 switch keypad	✓	
Cat rear object detection		✓	Precleaner, HVAC		✓
Link technologies:			Precleaner, HVAC (RESPA)		✓
Product Link	✓		Radio, AM/FM/USB/MP3 Bluetooth		✓
VIMS		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth		✓
Payload technologies: Advanced Productivity subscription, Cat Production Measurement 2.0, Printer, Aggregate Autodig		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth with Satellite Sirius and XM		✓
Machine security system		✓	Radio, CB ready		✓
			Radio ready (entertainment) includes antenna, speakers and converter (12V, 10-amp)	✓	
			Receptacles (2), 12V	✓	

(continued on next page)

# 966M 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 <i>(continued)</i></b>			<b>ELECTRICAL AND LIGHTING <i>(continued)</i></b>		
Roof, metallic		✓	Main disconnect switch	✓	
Seat, cloth, air suspension	✓		Receptacle start (cables not included)	✓	
Seat, suede/cloth, air suspension, heated		✓	Reversing strobes		✓
Seat, leather/cloth, air suspension, heated/cooled		✓	Speed limiter – 20 km/h (Europe only)		✓
Seat belt, 51 mm (2 in) retractable, with indicator	✓		Starter, electric, heavy duty	✓	
Seat belt, 76 mm (3 in) retractable, with indicator		✓	Starting and charging system (24V)	✓	
Steering, EH joystick, speed sensing with force feedback	✓		Warning amber strobe beacon		✓
Steering, EH wheel with directional FNR shifter and gear selector – additional FNR with implement controls		✓	<b>FLUIDS</b>		
Steering, secondary		✓	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	✓		Hoses, Cat XT	✓	
Wet-arm wipers/washers front and rear, intermittent front wiper	✓		Hydraulic system, load sensing	✓	
Windows, rubber mounted		✓	Oil sampling valves	✓	
Window, sliding (left and right sides)	✓		3 <sup>rd</sup> function with Ride Control – standard linkage, high lift linkage, forestry linkage		✓
Windows, with front guard		✓	4 <sup>th</sup> function with Ride Control – standard linkage, high lift linkage, forestry linkage		✓
Windows, with heavy duty front guard		✓	Remote diagnostic pressure taps	✓	
Windows, with full guards front, rear and sides		✓	Ride control, 2V	✓	
<b>ELECTRICAL AND LIGHTING</b>			Steering, load sensing	✓	
Alarm, back-up	✓		<b>LINKAGE</b>		
Alternator, 145-amp brushed	✓		Forestry		✓
Auxiliary halogen cab-mounted work lights (four additional) or		✓	High lift		✓
Auxiliary front HI LED (two additional) and two additional auxiliary rear LED cab mounted work lights with 2 LED work lights in the radiator grill and LED front turn signals. Also includes replacement of the standard four halogen cab-mounted work lights with four LED work lights (the standard offering and only roading light available is the halogen roading light)		✓	Kickout, lift and tilt, automatic	✓	
Batteries (2), maintenance free 1,400 CCA	✓		Quick coupler ready		✓
External seat belt indicator light		✓	Z-bar, cast crosstube/tilt lever	✓	
Ignition key; start/stop switch	✓		<b>STARTERS, BATTERIES, AND ALTERNATORS</b>		
Lighting system: four halogen work lights (cab mounted), two halogen roading lights (with signals), two halogen rear vision lights (hood mounted)	✓		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)*

# 966M 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			Ecology drains for engine, transmission, and hydraulics	✓	
Diesel Exhaust Fluid (DEF) level (Tier 4 Final/Stage V models)			Ether aid ready	✓	
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			Oil change, high speed engine		✓
Parking brake			Platform, window washing	✓	
DEF low level (Tier 4 Final/Stage V models)			Precleaner, turbine		✓
Transmission filter bypass			Precleaner, trash		✓
			Precleaner rain cap	✓	
			Service centers (electrical and hydraulic)	✓	
			Sight gauges: engine coolant, hydraulic oil, and transmission oil level	✓	
			Toolbox	✓	
			Vandalism protection caplocks	✓	
			Wheel chocks		✓
			<b>OTHER CONFIGURATIONS</b>		
			Aggregate handler		✓
			Corrosion resistance		✓
			Industrial and waste handler		✓
			Forestry		✓

# 966M Forestry Specifications

## Recommended Equipment and Work Tools

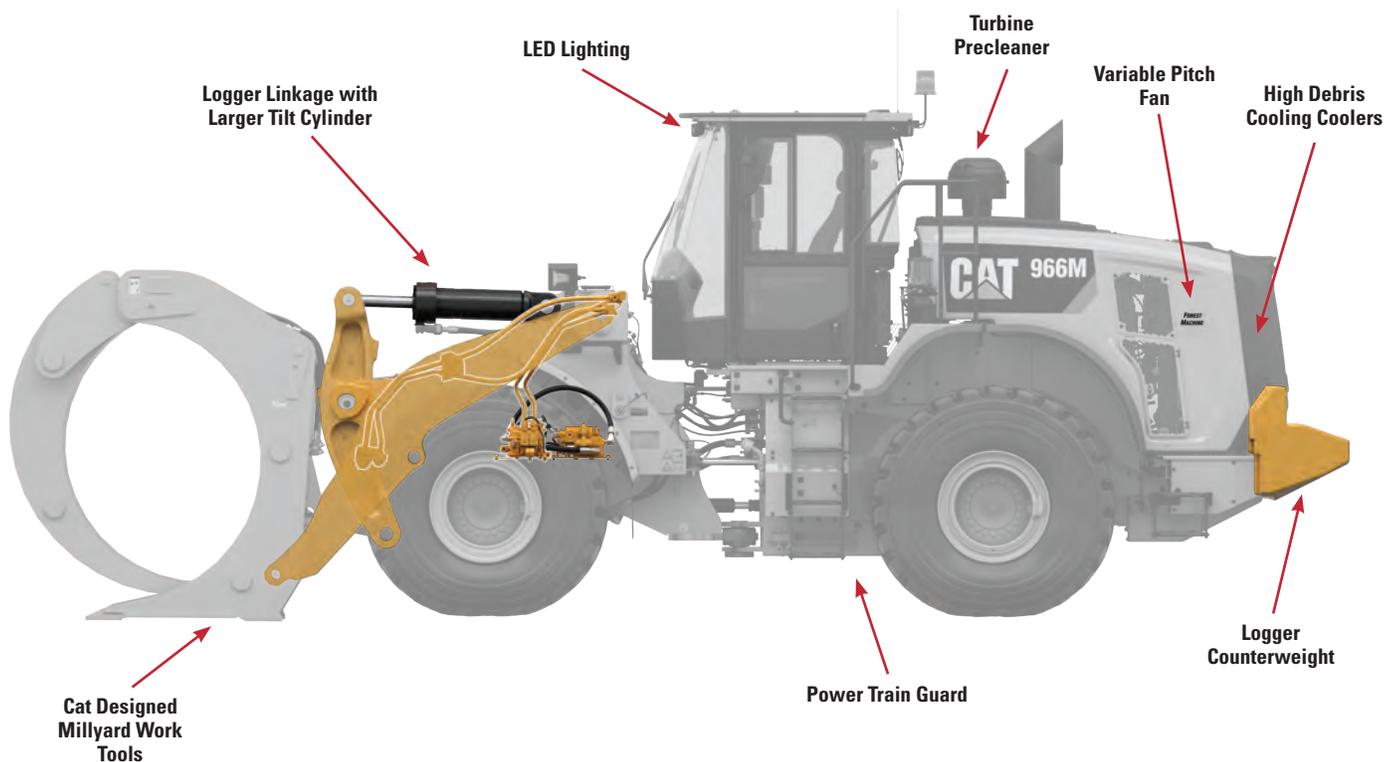
### Recommended Forestry Configuration

- Logger linkage with larger tilt cylinder
- Logger counterweight
- 3rd 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
- Logging 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

## 966M Forestry Machine





オフロード法2014年  
基準適合



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