



# 972M XE

## Wheel Loader

# Technical Specifications

### Engine

Engine Model	Cat® C9.3	
Maximum Net Power (1,600 rpm)		
SAE J1349	232 kW	311 hp
ISO 9249	232 kW	311 hp
Peak Gross Torque (1,200 rpm)		
SAE J1995	1728 N·m	1,275 lbf·ft
ISO 14396	1708 N·m	1,260 lbf·ft
Maximum Net Torque (1,200 rpm)	1618 N·m	1,193 lbf·ft
Displacement	9.3 L	568 in <sup>3</sup>

- Cat engine with ACERT™ Technology – meets U.S. EPA Tier 4 Final/EU Stage V emission standards.
- The power ratings apply at the stated speed when tested under the reference conditions for the specified standards.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan running up to maximum speed, alternator, air cleaner and aftertreatment.

### Buckets

Bucket Capacities	3.20- 9.94 m <sup>3</sup>	4.19- 13.00 yd <sup>3</sup>
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### Weight

Operating Weight	24 897 kg	54,871 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 4.8 m<sup>3</sup> general purpose bucket with BOCE.

### Operating Specifications

Static Tipping Load – Full 37° Turn		
With Tire Deflection	16 164 kg	35,626 lb
No Tire Deflection	17 421 kg	38,396 lb
Breakout Force	196 kN	44,075 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.

### Brakes

Brakes	Brakes meet ISO 3450:2011 standards
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### Transmission Virtual Gears

Forward 1	6.7 km/h	4.2 mph
Forward 2	12.6 km/h	7.8 mph
Forward 3	22.1 km/h	13.7 mph
Forward 4	39.5 km/h	24.5 mph
Reverse 1	6.7 km/h	4.2 mph
Reverse 2	12.6 km/h	7.8 mph
Reverse 3	28.0 km/h	17.4 mph

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

### Hydraulic System

Implement Pump Type	Variable Displacement Piston	
Implement System		
Maximum Pump Output (1,600 rpm*)	385 L/min	102 gal/min
Maximum Operating Pressure	31 000 kPa	4,496 psi
Maximum Flow – Optional 3 <sup>rd</sup> /4 <sup>th</sup> Function	240 L/min	63 gal/min
Maximum Pressure – Optional 3 <sup>rd</sup> /4 <sup>th</sup> Function	21 780 kPa	3,159 psi
Hydraulic Cycle Time with Rated Payload		
Raise from Carry Position	6.1 Sec.	
Dump, at Maximum Raise	1.5 Sec.	
Lower, Empty, Float Down	3.1 Sec.	
Total	10.7 Sec.	

\*Engine speed.



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## 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)	67 dB(A)
Exterior sound power level (ISO 6395:2008)	107 dB(A)
Exterior sound pressure level (SAE J88:2013)	76 dB(A)*

With Cooling Fan Speed at 70% of Maximum Value:\*\*

Operator sound pressure level (ISO 6396:2008)	67 dB(A)
Exterior sound power level	105 L <sub>WA</sub> ***

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

\*\*For machines in European Union countries and in countries that adopt the "EU Directives."

\*\*\*European Union Directive "2000/14/EC" as amended by "2005/88/EC."

## Service Refill Capacities

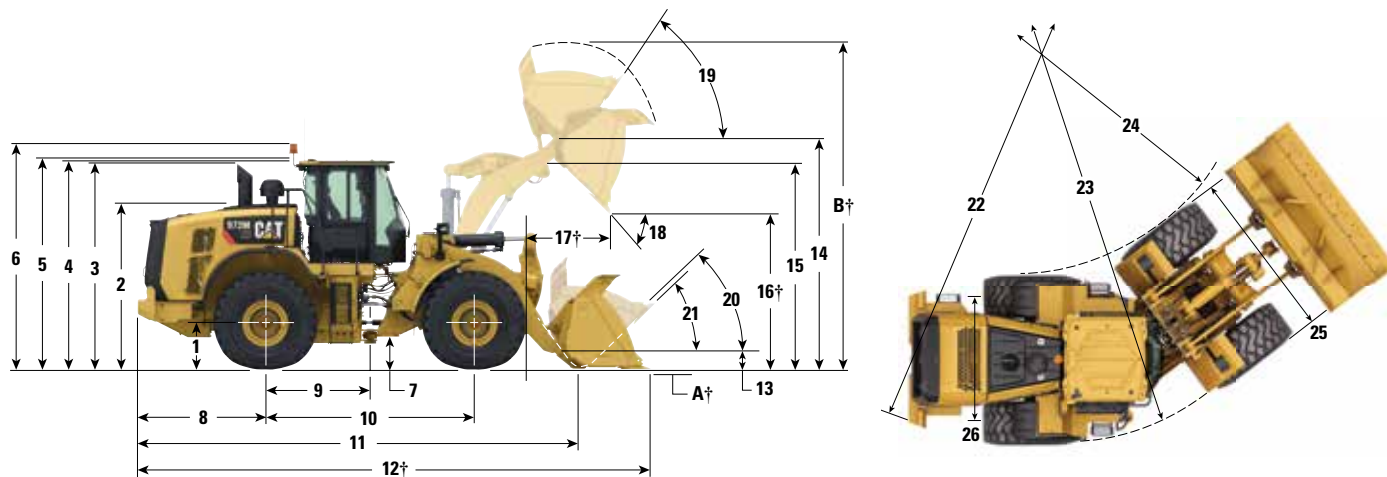
Fuel Tank	302 L	79.8 gal
DEF Tank*	16.8 L	4.4 gal
Cooling System	71.6 L	19 gal
Crankcase	24.5 L	6.5 gal
Transmission	63 L	16.6 gal
Differentials and Final Drives – Front	57 L	15.1 gal
Differentials and Final Drives – Rear	57 L	15.1 gal
Hydraulic Tank	125 L	33 gal

\*Must meet the requirements outlined in ISO 22241-1.

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## Dimensions

All dimensions are approximate.



	Standard Lift		High Lift		Extended Capacity	
1 Height to Axle Centerline	799 mm	2'7"	2818 mm	9'3"	799 mm	2'7"
2 Height to Top of Hood	2818 mm	9'3"	2818 mm	9'3"	2818 mm	9'3"
3 Height to Top of Exhaust Pipe	3522 mm	11'7"	3522 mm	11'7"	3522 mm	11'7"
4 Height to Top of ROPS	3587 mm	11'9"	3587 mm	11'9"	3587 mm	11'9"
5 Height to Top of Product Link Antenna	3636 mm	11'11"	3636 mm	11'11"	3636 mm	11'11"
6 Height to Top of Warning Beacon	3859 mm	12'8"	3859 mm	12'8"	3859 mm	12'8"
7 Ground Clearance	434 mm	1'5"	434 mm	1'5"	434 mm	1'5"
8 Center Line of Rear Axle to Edge of Counterweight	2500 mm	8'2"	2500 mm	8'2"	2500 mm	8'2"
9 Center Line of Rear Axle to Hitch	1775 mm	5'10"	1775 mm	5'10"	1775 mm	5'10"
10 Wheelbase	3550 mm	11'8"	3550 mm	11'8"	3550 mm	11'8"
11 Overall Length (without bucket)	7774 mm	25'7"	8109 mm	26'8"	7609 mm	25'0"
12 Shipping Length (with bucket level on ground)*†	9315 mm	30'7"	9650 mm	31'8"	9164 mm	30'1"
13 Hinge Pin Height at Carry Height	680 mm	2'3"	778 mm	2'7"	631 mm	2'1"
14 Hinge Pin Height at Maximum Lift	4458 mm	14'8"	4793 mm	15'9"	4235 mm	13'11"
15 Lift Arm Clearance at Maximum Lift	3843 mm	12'7"	4140 mm	13'6"	3643 mm	11'11"
16 Dump Clearance at Maximum Lift and 45° Discharge*†	3154 mm	10'4"	3490 mm	11'5"	2920 mm	9'6"
17 Reach at Maximum Lift and 45° Discharge*†	1357 mm	4'5"	1380 mm	4'6"	1413 mm	4'7"
18 Dump Angle at Maximum Lift and Dump (on stops)*	48 degrees		48 degrees		48 degrees	
19 Rack Back at Maximum Lift*	56 degrees		71 degrees		62 degrees	
20 Rack Back at Carry Height*	50 degrees		49 degrees		50 degrees	
21 Rack Back at Ground*	41 degrees		39 degrees		42 degrees	
22 Clearance Circle (radius) to Counterweight	6804 mm	22'4"	6804 mm	22'4"	6804 mm	22'4"
23 Clearance Circle (radius) to Outside of Tires	6761 mm	22'3"	6761 mm	22'3"	6761 mm	22'3"
24 Clearance Circle (radius) to Inside of Tires	3853 mm	12'8"	3853 mm	12'8"	3853 mm	12'8"
25 Width over Tires (unloaded)	2991 mm	9'10"	2991 mm	9'10"	2991 mm	9'10"
26 Tread Width	2230 mm	7'4"	2230 mm	7'4"	2230 mm	7'4"

\*Standard and High Lift are with 4.8 m<sup>3</sup> (6.3 yd<sup>3</sup>) general purpose pin on bucket with BOCE (see Operating Specifications for other buckets). Extended Capacity is with a 4.9 m<sup>3</sup> (6.4 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).

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## 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"	3015 mm 9'11"	2998 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"	-8 mm -0.3"	-54 mm -2.1"
Change in Clearance Circle (radius) to Inside of Tires	-5 mm -0.2"	-1 mm 0"	7 mm 0.3"	-3 mm -0.1"	8 mm 0.3"	54 mm 2.1"
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	283 kg 623 lb	482 kg 1,062 lb	719 kg 1,584 lb	110 kg 243 lb	764 kg 1,685 lb	576 kg 1,269 lb
Change in Static Tipping Load – Articulated	252 kg 555 lb	429 kg 946 lb	640 kg 1,411 lb	98 kg 216 lb	680 kg 1,499 lb	513 kg 1,131 lb

\*Width over bulge and includes tire growth.

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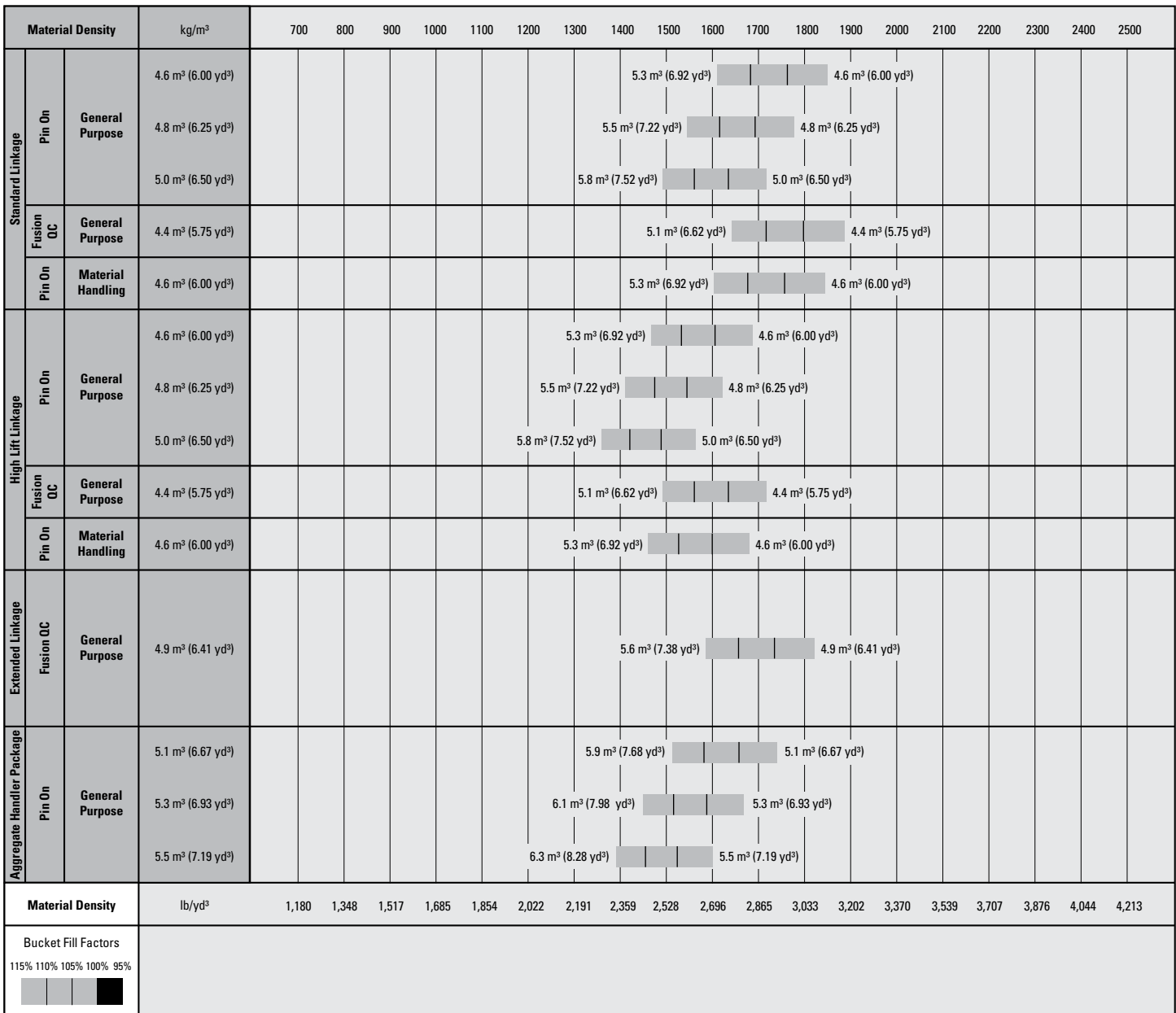
## Bucket Fill Factors and Selection Chart

The bucket size must be chosen based on the density of the material and on the expected fill factor. The Cat Performance Series Buckets with longer floor, larger bucket opening, increased repository angle, rounded side boards and integrated spill guard, demonstrate fill factors significantly higher than previous generation or non Cat buckets. The actual volume handled by the machine is thus often larger than the rated capacity.

Loose Material		Material Density	Fill Factor (%)*
Earth/Clay		1500-1700 kg/m <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 rated capacity.

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



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

QC = Quick Coupler

# 972M XE Wheel Loader Specifications

## Operating Specifications with 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>	4.60	4.60	4.40	4.80	4.80	4.60	—
	yd <sup>3</sup>	6.00	6.00	5.75	6.25	6.25	6.00	—
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	5.06	5.06	4.84	5.28	5.28	5.06	—
	yd <sup>3</sup>	6.62	6.62	6.33	6.91	6.91	6.62	—
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	3187	3033	3033	3154	2999	2999	336
	ft/in	10'5"	9'11"	9'11"	10'4"	9'10"	9'10"	1'1"
<b>17†</b> Reach at Maximum Lift and 45° Discharge	mm	1328	1465	1465	1357	1493	1493	23
	ft/in	4'4"	4'9"	4'9"	4'5"	4'10"	4'10"	0.9"
Reach at Level Lift Arm and Bucket Level	mm	2969	3174	3174	3014	3219	3219	274
	ft/in	9'8"	10'4"	10'4"	9'10"	10'6"	10'6"	11"
<b>A†</b> Digging Depth	mm	103	103	73	103	103	73	-5
	in	4"	4"	2.8"	4"	4"	2.8"	-0.2"
<b>12†</b> Shipping Length (with Bucket)	mm	9270	9494	9494	9315	9539	9539	335
	ft/in	30'5"	31'2"	31'2"	30'7"	31'4"	31'4"	1'1"
<b>B†</b> Overall Height with Bucket at Maximum Lift	mm	6195	6195	6195	6031	6031	6031	336
	ft/in	20'4"	20'4"	20'4"	19'10"	19'10"	19'10"	1'1"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7596	7685	7685	7608	7697	7697	162
	ft/in	25'0"	25'2"	25'2"	25'0"	25'2"	25'2"	6'0"
Static Tipping Load, Straight (With Tire Deflection)*	kg	18 477	18 293	18 550	18 502	18 318	20 545	-1592
	lb	40,723	40,319	40,884	40,779	40,372	45,281	-3,508
Static Tipping Load, Straight (No Tire Deflection)*	kg	19 724	19 537	19 796	19 755	19 567	22 192	-1752
	lb	43,473	43,061	43,631	43,542	43,127	48,912	-3,863
Static Tipping Load, Articulated (With Tire Deflection)*	kg	16 135	15 950	16 188	16 164	15 978	17 927	-1423
	lb	35,563	35,155	35,680	35,626	35,215	39,512	-3,137
Static Tipping Load, Articulated (No Tire Deflection)*	kg	17 387	17 200	17 439	17 421	17 233	19 558	-1598
	lb	38,322	37,910	38,437	38,396	37,982	43,107	-3,521
Breakout Force	kN	202	201	214	196	194	207	-6
	lbf	45,482	45,173	48,227	44,075	43,766	46,655	-1,368
Operating Weight*	kg	24 969	25 106	24 943	24 897	25 034	24 871	84
	lb	55,030	55,334	54,974	54,871	55,175	54,816	186

\*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.

†Illustration shown with Dimension charts.

# 972M XE Wheel Loader Specifications

## Operating Specifications with Buckets

Linkage	Standard Linkage				Standard Linkage			
	Bucket Type	General Purpose – Pin On			General Purpose – Fusion™ QC			High Lift Linkage Change**
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Tips	Bolt-On Cutting Edges	Teeth and Segments	Tips	
Capacity – Rated	m <sup>3</sup>	5.00	5.00	4.80	4.40	4.40	4.20	—
	yd <sup>3</sup>	6.50	6.50	6.25	5.75	5.75	5.50	—
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	5.50	5.50	5.28	4.84	4.84	4.62	—
	yd <sup>3</sup>	7.19	7.19	6.91	6.33	6.33	6.04	—
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	3137	2982	2982	3200	3047	3047	336
	ft/in	10'3"	9'9"	9'9"	10'6"	9'11"	9'11"	1'1"
17† Reach at Maximum Lift and 45° Discharge	mm	1372	1508	1508	1327	1465	1465	23
	ft/in	4'6"	4'11"	4'11"	4'4"	4'9"	4'9"	0.9"
Reach at Level Lift Arm and Bucket Level	mm	3037	3242	3242	2958	3163	3163	274
	ft/in	9'11"	10'7"	10'7"	9'8"	10'4"	10'4"	11"
A† Digging Depth	mm	103	103	73	103	103	73	-5
	in	4"	4"	2.8"	4"	4"	2.8"	-0.2"
12† Shipping Length (with Bucket)	mm	9338	9562	9562	9259	9483	9483	335
	ft/in	30'8"	31'5"	31'5"	30'5"	31'2"	31'2"	1'1"
B† Overall Height with Bucket at Maximum Lift	mm	6284	6284	6284	6205	6205	6205	336
	ft/in	20'8"	20'8"	20'8"	20'5"	20'5"	20'5"	1'1"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7615	7704	7704	7590	7680	7680	162
	ft/in	25'0"	25'2"	25'2"	25'0"	25'0"	25'2"	6'0"
Static Tipping Load, Straight (With Tire Deflection)*	kg	18 600	18 415	18 651	18 081	17 899	18 257	-1608
	lb	40,996	40,588	41,108	39,851	39,450	40,240	-3,545
Static Tipping Load, Straight (No Tire Deflection)*	kg	19 856	19 668	19 906	19 317	19 131	19 507	-1771
	lb	43,764	43,348	43,873	42,576	42,166	42,993	-3,903
Static Tipping Load, Articulated (With Tire Deflection)*	kg	16 264	16 076	16 297	15 749	15 565	15 907	-1444
	lb	35,845	35,433	35,919	34,712	34,307	35,060	-3,181
Static Tipping Load, Articulated (No Tire Deflection)*	kg	17 521	17 332	17 553	16 992	16 807	17 163	-1620
	lb	38,617	38,200	38,687	37,452	37,043	37,828	-3,570
Breakout Force	kN	198	197	210	203	202	216	-6
	lbf	44,634	44,325	47,205	45,788	45,479	48,572	-1,378
Operating Weight*	kg	25 010	25 147	24 984	25 327	25 464	25 301	84
	lb	55,120	55,424	55,065	55,819	56,123	55,763	186

\*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.

†Illustration shown with Dimension charts.

QC = Quick Coupler

# 972M XE Wheel Loader Specifications

## Operating Specifications with Buckets

Linkage	Standard Linkage				Extended Linkage			
	Bucket Type	Material Handling – Pin On			General Purpose – Fusion QC			High Lift Linkage Change**
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Tips	Bolt-On Cutting Edges	Teeth and Segments	Tips	
Capacity – Rated	m <sup>3</sup>	4.60	4.60	4.40	4.90	4.90	4.70	—
	yd <sup>3</sup>	6.00	6.00	5.75	6.41	6.41	6.15	—
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	5.06	5.06	4.84	5.39	5.39	5.17	—
	yd <sup>3</sup>	6.62	6.62	6.33	7.05	7.05	6.76	—
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	3120	2957	2957	2899	2744	2744	336
	ft/in	10'2"	9'8"	9'8"	9'6"	9'0"	9'0"	1'1"
<b>17</b> † Reach at Maximum Lift and 45° Discharge	mm	1251	1378	1378	1449	1586	1586	23
	ft/in	4'1"	4'6"	4'6"	4'9"	5'2"	5'2"	0.9"
Reach at Level Lift Arm and Bucket Level	mm	2979	3184	3184	2940	3145	3145	274
	ft/in	9'9"	10'5"	10'5"	9'7"	10'3"	10'3"	11"
<b>A</b> † Digging Depth	mm	103	103	73	115	115	85	-5
	in	4"	4"	2.8"	4.5"	4.5"	3.3"	-0.2"
<b>12</b> † Shipping Length (with Bucket)	mm	9280	9504	9504	9200	9425	9425	335
	ft/in	30'6"	31'3"	31'3"	30'3"	31'0"	31'0"	1'1"
<b>B</b> † Overall Height with Bucket at Maximum Lift	mm	6162	6162	6162	6126	6126	6126	336
	ft/in	20'3"	20'3"	20'3"	20'2"	20'2"	20'2"	1'1"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7599	7688	7688	751	7628	7628	167
	ft/in	25'0"	25'2"	25'2"	2'6"	25'0"	25'0"	6'0"
Static Tipping Load, Straight (With Tire Deflection)*	kg	18 412	18 229	18 468	19 411	19 225	19 590	-1598
	lb	40,580	40,177	40,704	42,781	42,372	43,177	-3,521
Static Tipping Load, Straight (No Tire Deflection)*	kg	19 640	19 453	19 695	20 885	20 695	21 079	-1757
	lb	43,286	42,875	43,409	46,032	45,612	46,460	-3,871
Static Tipping Load, Articulated (With Tire Deflection)*	kg	16 081	15 896	16 119	16 920	16 732	17 082	-1429
	lb	35,442	35,035	35,526	37,293	36,878	37,649	-3,149
Static Tipping Load, Articulated (No Tire Deflection)*	kg	17 313	17 127	17 351	18 387	18 197	18 562	-1601
	lb	38,159	37,749	38,242	40,526	40,106	40,912	-3,528
Breakout Force	kN	201	199	213	198	196	209	-7
	lbf	45,174	44,865	47,882	44,570	44,204	47,022	-1,647
Operating Weight*	kg	24 964	25 101	24 938	25 283	25 421	25 258	85
	lb	55,019	55,323	54,963	55,724	56,028	55,668	186

\*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.

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

†Illustration shown with Dimension charts.

QC = Quick Coupler



# 972M XE Wheel Loader Specifications

## Operating Specifications with Buckets – Aggregate Handler

Package		Aggregate Handler		
Bucket Type		General Purpose – Pin On		
Edge Type		Bolt-On Cutting Edges	Bolt-On Cutting Edges	Bolt-On Cutting Edges
Capacity – Rated	m <sup>3</sup>	5.10	5.30	5.50
	yd <sup>3</sup>	6.67	6.93	7.19
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	5.61	5.83	6.05
	yd <sup>3</sup>	7.34	7.63	7.91
Width	mm	3357	3357	3357
	ft/in	11'0"	11'0"	11'0"
<b>16</b> † Dump Clearance at Maximum Lift and 45° Discharge	mm	3127	3100	3072
	ft/in	10'3"	10'2"	10'0"
<b>17</b> † Reach at Maximum Lift and 45° Discharge	mm	1375	1399	1424
	ft/in	4'6"	4'7"	4'8"
Reach at Level Lift Arm and Bucket Level	mm	3046	3083	3121
	ft/in	9'11"	10'1"	10'2"
<b>A</b> † Digging Depth	mm	108	108	108
	in	4.2"	4.2"	4.2"
<b>12</b> † Shipping Length (with Bucket)	mm	9037	9074	9112
	ft/in	29'8"	29'10"	29'11"
<b>B</b> † Overall Height with Bucket at Maximum Lift	mm	6235	6272	6293
	ft/in	20'6"	20'7"	20'8"
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7681	7691	7702
	ft/in	25'2"	25'2"	25'4"
Static Tipping Load, Straight (With Tire Deflection)*	kg	19 316	19 242	19 172
	lb	42,574	42,409	42,255
Static Tipping Load, Straight (No Tire Deflection)*	kg	20 669	20 600	20 537
	lb	45,556	45,403	45,263
Static Tipping Load, Articulated (With Tire Deflection)*	kg	16 799	16 726	16 658
	lb	37,026	36,865	36,716
Static Tipping Load, Articulated (No Tire Deflection)*	kg	18 165	18 098	18 036
	lb	40,036	39,888	39,753
Breakout Force	kN	190	185	180
	lbf	42,755	41,650	40,573
Operating Weight*	kg	25 790	25 832	25 870
	lb	56,840	56,933	57,016

\*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.

†Illustration shown with Dimension charts.

# 972M XE 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 modulated neutralizer and integrated retarding	✓		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	✓		Cab tie-off	✓	
Engine, Cat C9.3 – meets Tier 4 Final/ Stage V emission standards	✓		Coat hook (2)	✓	
Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand	✓		Cover, HVAC metallic		✓
Fan, VPF (variable pitch fan), automatic and manual control		✓	Door, remote opening system		✓
Fuel priming pump (electric)	✓		EH controls, SAL (single axis lever) lift and tilt function	✓	
Fuel/water separator	✓		EH controls, joystick lift and tilt – additional integrated roller switches for 3 <sup>rd</sup> and 4 <sup>th</sup> functions		✓
Parking brake, disc and caliper	✓		EH controls, SAL 3 <sup>rd</sup> function – additional roller switch for 4 <sup>th</sup> function		✓
Precleaner, engine air intake	✓		EH parking brake	✓	
Secondary steering	✓		Ergonomic cab access ladders and handrails	✓	
Radiator, high debris, wide fin spacing	✓		Filter, carbon fresh air		✓
Right pedal lock, maximum rimpull control and machine speed limit in the cab	✓		Horn, electric	✓	
Transmission, Cat continuously variable	✓		Light, two dome (cab)	✓	
<b>CAT® CONNECT TECHNOLOGY</b>			Mirrors, heated rearview external with integrated spot mirrors		✓
Detect technologies:			Mirrors, rearview external with integrated spot mirrors	✓	
Rear vision camera	✓		Multi-function 18 cm color LCD touch-screen display for rear vision camera image display (reverse travel activated) and machine status, setting and health parameters	✓	
Cat rear object detection		✓	Post mounted membrane 16 switch keypad	✓	
Link technologies:			Precleaner, HVAC		✓
Product Link	✓		Precleaner, HVAC (RESPA)		✓
VIMS™		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth®		✓
Payload technologies: Advanced Productivity subscription, Cat Production Measurement 2.0, Printer, Aggregate Autodig		✓	Radio, CB ready		✓
Machine security system		✓	Radio ready (entertainment) includes antenna, speakers and converter (12V, 10-amp)	✓	
			Receptacles (2), 12V	✓	

(continued on next page)

# 972M XE Wheel Loader Standard and Optional Equipment

## Standard and Optional Equipment (continued)

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

	Standard	Optional		Standard	Optional
<b>OPERATOR ENVIRONMENT (continued)</b>			<b>ELECTRICAL AND LIGHTING (continued)</b>		
Roof, metallic		✓	Main disconnect switch	✓	
Seat, cloth, air suspension	✓		Receptacle start (cables not included)	✓	
Seat, suede/cloth, air suspension, heated		✓	Secondary steering	✓	
Seat, leather/cloth, air suspension, heated/cooled		✓	Speed limiter – 20 km/h		✓
Seat belt, 51 mm (2 in) retractable, with indicator	✓		Starter, electric, heavy duty	✓	
Seat belt, 4 point harness, with indicator		✓	Starting and charging system (24V)	✓	
Steering, EH joystick, speed sensing with force feedback	✓		<b>FLUIDS</b>		
Sun visor, front	✓		Biodegradable oil, Cat HYDO™		✓
Sun visor, rear		✓	Premixed extended life coolant with freeze protection to -34°C (-29°F)	✓	
Viscous mounts	✓		Premixed extended life coolant with freeze protection to -50°C (-58°F)		✓
Wet-arm wipers/washers front and rear, intermittent front wiper	✓		<b>HYDRAULICS</b>		
Windows, rubber mounted		✓	Autolube		✓
Window, sliding (left and right sides)	✓		Couplings, Cat O-ring face seal	✓	
Windows, with front guard		✓	Hoses, Cat XT™	✓	
Windows, with heavy duty front guard		✓	Hydraulic oil cooler (swing out)	✓	
Windows, with full guards front, rear and sides		✓	Hydraulic system, load sensing	✓	
<b>ELECTRICAL AND LIGHTING</b>			Oil sampling valves	✓	
Alarm, back-up	✓		3 <sup>rd</sup> function with Ride Control		✓
Alternator, 145-amp brushed	✓		4 <sup>th</sup> function with Ride Control		✓
Auxiliary halogen cab-mounted work lights (four additional) or		✓	Remote diagnostic pressure taps	✓	
HID cab-mounted work lights (four additional)		✓	Ride control, 2V	✓	
Batteries (2), maintenance free 1,400 CCA	✓		Steering, load sensing	✓	
Emergency engine shutdown switch	✓		<b>LINKAGE</b>		
Ignition key; start/stop switch	✓		Extended capacity		✓
LED front and rear roading lights		✓	High lift		✓
Lighting system: four halogen work lights (cab mounted), two halogen roading lights (with signals), two halogen rear vision lights (hood mounted), two rear LED position/stop/turn signal lights	✓		Kickout, lift and tilt, automatic (adjustable cab)	✓	
			Quick coupler ready		✓
			Z-bar, cast crosstube/tilt lever	✓	
			<b>STARTERS, BATTERIES, AND ALTERNATORS</b>		
			Cold start – 240V		✓
			<b>WORK TOOLS</b>		
			Forks, logging		✓
			Forks, pallet		✓
			Fusion quick coupler		✓
			Performance Series buckets		✓

(continued on next page)

# 972M XE 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			Ether aid ready	✓	
Temperature: engine coolant, hydraulic oil, transmission oil			Fenders, steel 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			Guard, rear radiator grill		✓
Hydraulic oil filter restriction			Hitch, drawbar with pin	✓	
Hydraulic oil low			Hood, non-metallic power tilting	✓	
Parking brake			Oil change, high speed engine		✓
DEF low level			Platform, window washing	✓	
Transmission filter bypass			Precleaner, turbine		✓
			Precleaner, trash		✓
			Precleaner rain cap	✓	
			Service centers (electrical and hydraulic)	✓	
			Sight gauges: engine coolant, hydraulic oil, and transmission oil level	✓	
			Toolbox	✓	
			Vandalism protection caplocks	✓	
			<b>OTHER CONFIGURATIONS</b>		
			Aggregate handler		✓
			Industrial and waste handler		✓

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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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