



972M XE

Wheel Loader

Technical Specifications

Engine

Engine Model	Cat® C9.3
Maximum Net Power (1,600 rpm)	
ISO 9249	232 kW (315 hp metric)
Peak Gross Torque (1,200 rpm)	
ISO 14396	1708 N·m
Maximum Net Torque (1,200 rpm)	
ISO 9249	1618 N·m
Bore	115 mm
Stroke	149 mm
Displacement	9.3 L

- Cat engine with ACERT™ Technology meets 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 ³
-------------------	--------------------------

Weight

Operating Weight	24 897 kg
------------------	-----------

- 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 m³ general purpose bucket with BOCE.

Operating Specifications

Static Tipping Load – Full 37° Turn	
With Tire Deflection	16 164 kg
No Tire Deflection	17 421 kg
Breakout Force	196 kN

- 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
--------	-------------------------------------

Transmission Virtual Gears

Forward 1	6.7 km/h
Forward 2	12.6 km/h
Forward 3	22.1 km/h
Forward 4	39.5 km/h
Reverse 1	6.7 km/h
Reverse 2	12.6 km/h
Reverse 3	28.0 km/h

- 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
Maximum Operating Pressure	31 000 kPa
Maximum Flow – Optional 3 rd /4 th Function	240 L/min
Maximum Pressure – Optional 3 rd /4 th Function	21 780 kPa
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.



972M XE Wheel Loader Specifications

Axles

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

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.

Operator Sound Pressure Level (ISO 6396:2008)	67 dB(A)*
Exterior Sound Power Level (ISO 6395:2008) European Union Directive "2000/14/EC" as amended by "2005/88/EC"	105 L _{WA} *

*For a standard machine configuration, measured according to the procedures specified with the cooling fan speed set at 70% of maximum value.

Service Refill Capacities

Fuel Tank	302 L
DEF Tank*	16.8 L
Cooling System	71.6 L
Crankcase	24.5 L
Transmission	63 L
Differentials and Final Drives – Front	57 L
Differentials and Final Drives – Rear	57 L
Hydraulic Tank	125 L

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

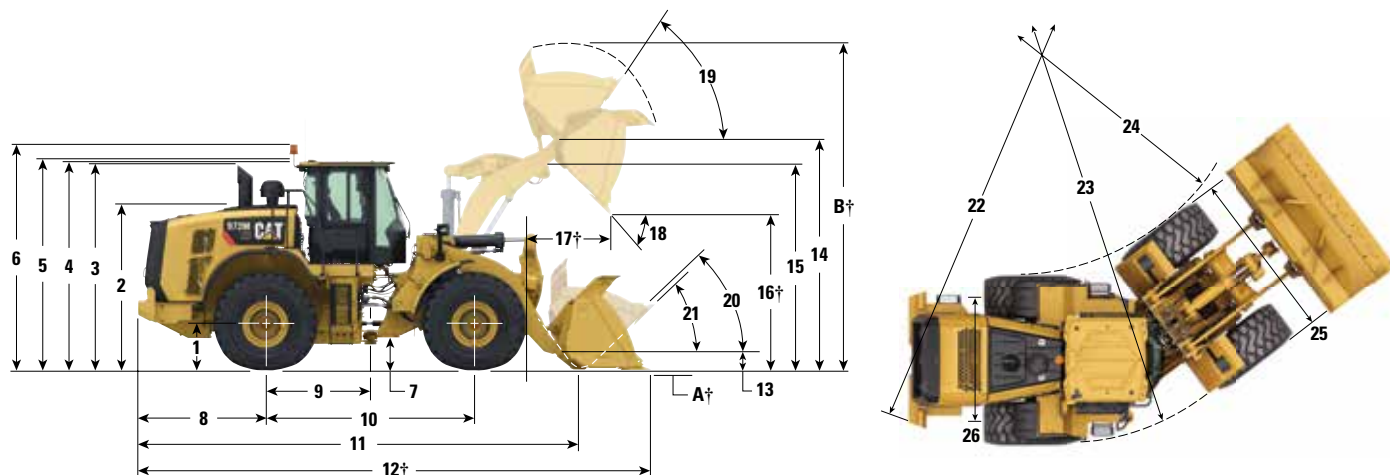
Air Conditioning System

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

972M XE Wheel Loader Specifications

Dimensions

All dimensions are approximate.



	Standard Lift	High Lift
1 Height to Axle Centerline	799 mm	799 mm
2 Height to Top of Hood	2818 mm	2818 mm
3 Height to Top of Exhaust Pipe	3522 mm	3522 mm
4 Height to Top of ROPS	3587 mm	3587 mm
5 Height to Top of Product Link Antenna	3636 mm	3636 mm
6 Height to Top of Warning Beacon	3859 mm	3859 mm
7 Ground Clearance	434 mm	434 mm
8 Center Line of Rear Axle to Edge of Counterweight	2500 mm	2500 mm
9 Center Line of Rear Axle to Hitch	1775 mm	1775 mm
10 Wheelbase	3550 mm	3550 mm
11 Overall Length (without bucket)	7774 mm	8109 mm
12 Shipping Length (with bucket level on ground)*†	9315 mm	9650 mm
13 Hinge Pin Height at Carry Height	680 mm	778 mm
14 Hinge Pin Height at Max Lift	4458 mm	4793 mm
15 Lift Arm Clearance at Max Lift	3843 mm	4140 mm
16 Dump Clearance at Max Lift and 45° Discharge*†	3154 mm	3490 mm
17 Reach at Max Lift and 45° Discharge*†	1357 mm	1380 mm
18 Dump Angle at Max Lift and Dump (on stops)*	48 degrees	48 degrees
19 Rack Back at Max Lift*	56 degrees	71 degrees
20 Rack Back at Carry Height*	50 degrees	49 degrees
21 Rack Back at Ground*	41 degrees	39 degrees
22 Turning Radius to Counterweight	6804 mm	6804 mm
23 Turning Radius to Outside of Tires	6761 mm	6761 mm
24 Turning Radius to Inside of Tires	3853 mm	3853 mm
25 Max Width over Tires (unloaded)	2991 mm	2991 mm
Max Width over Tires (loaded)	3009 mm	3009 mm
26 Tread Width	2230 mm	2230 mm

*Standard and High Lift are with 4.8 m³ 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 Dimension changes – Tires Chart for other tires).

972M XE Wheel Loader Specifications

Dimension Changes – Tires

Tire Brand	Michelin	Michelin	Michelin	Bridgestone	Bridgestone
Tire Size	26.5R25	26.5R25	26.5R25	26.5R25	26.5R25
Tread Type	L-4	L-5	L-5	L-3	L-4
Tread Pattern	XLDD1	XLDD2	XMINED2	VJT	VSNT
Width over Tires – Maximum (empty)*	2987 mm	2986 mm	2970 mm	2982 mm	2973 mm
Width over Tires – Maximum (loaded)*	3019 mm	3015 mm	2998 mm	3016 mm	2993 mm
Change in Vertical Dimensions (average of front and rear)	44 mm	39 mm	53 mm	15 mm	25 mm
Change in Horizontal Reach	-36 mm	-34 mm	-32 mm	-3 mm	-24 mm
Change in Clearance Circle (radius) to Outside of Tires	5 mm	1 mm	-7 mm	3 mm	-8 mm
Change in Clearance Circle (radius) to Inside of Tires	-5 mm	-1 mm	7 mm	-3 mm	8 mm
Change in Operating Weight (without Ballast)	420 kg	716 kg	1068 kg	164 kg	624 kg
Change in Static Tipping Load – Straight	283 kg	482 kg	719 kg	110 kg	420 kg
Change in Static Tipping Load – Articulated	252 kg	429 kg	640 kg	98 kg	374 kg

Dimension Changes – Tires

Tire Brand	Bridgestone	Bridgestone	Flexport	Flexport
Tire Size	26.5R25	775/65R29	70×14×28 (26.5×25)	70×14×28 (26.5×25)
Tread Type	L-5	L-3	—	—
Tread Pattern	VSDL	VTS	OTR	SMOOTH
Width over Tires – Maximum (empty)*	2874 mm	3080 mm	2955 mm	2896 mm
Width over Tires – Maximum (loaded)*	2900 mm	3101 mm	2972 mm	2915 mm
Change in Vertical Dimensions (average of front and rear)	50 mm	17 mm	59 mm	52 mm
Change in Horizontal Reach	-29 mm	-5 mm	-23 mm	-13 mm
Change in Clearance Circle (radius) to Outside of Tires	-54 mm	46 mm	-19 mm	-47 mm
Change in Clearance Circle (radius) to Inside of Tires	54 mm	-46 mm	19 mm	47 mm
Change in Operating Weight (without Ballast)	1136 kg	856 kg	3287 kg	3764 kg
Change in Static Tipping Load – Straight	764 kg	576 kg	2212 kg	2533 kg
Change in Static Tipping Load – Articulated	680 kg	513 kg	1969 kg	2255 kg

*Width over bulge and includes tire growth.

Note: Changes compared to:

– Michelin 26.5R25 XHA2 L3 radial tires.

972M XE Wheel Loader Specifications

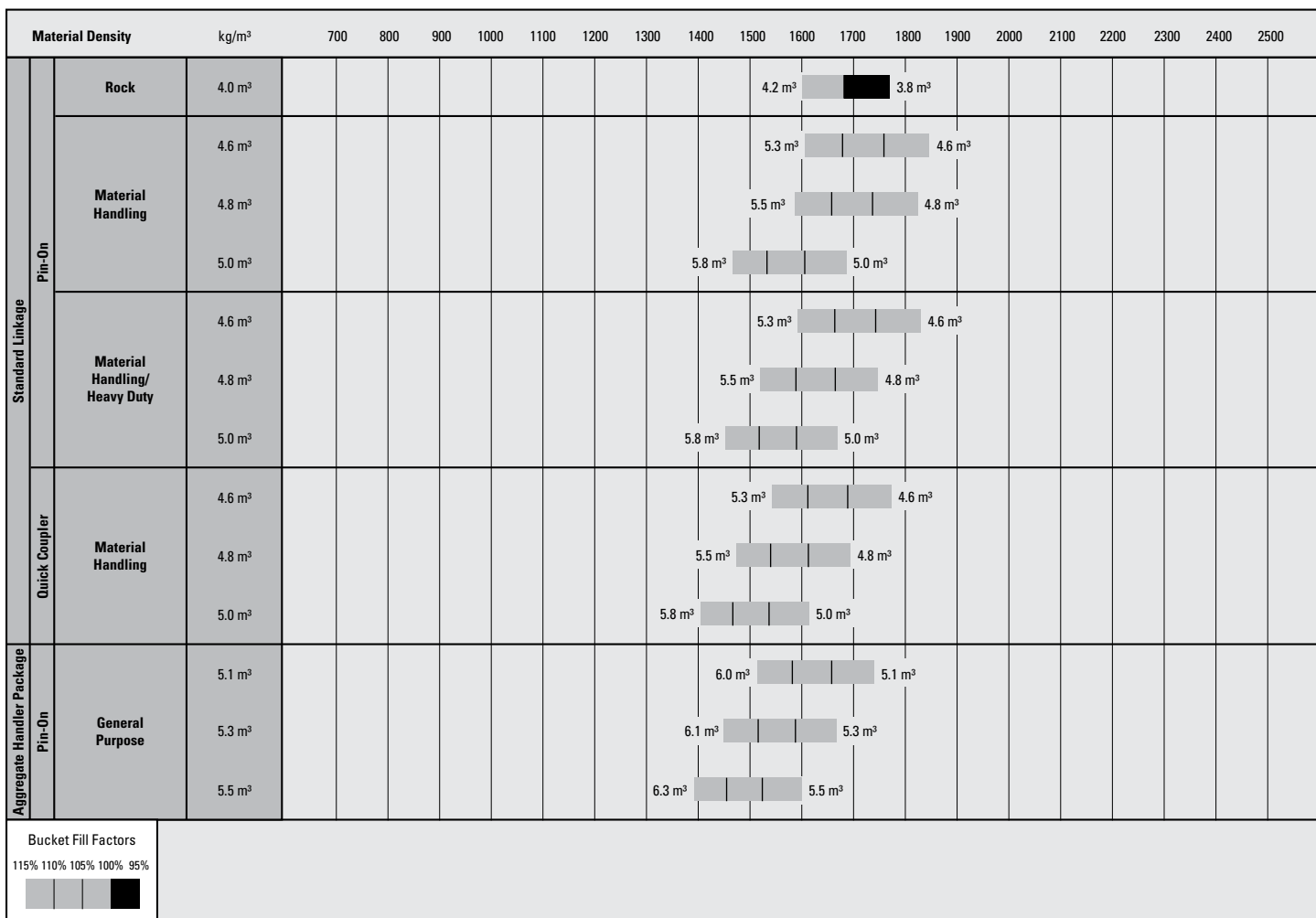
Bucket Fill Factors and Selection Chart

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

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

*As a % of ISO 7546 rated capacity.

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



Note: All buckets are showing Bolt-On Edges.

972M XE Wheel Loader Specifications

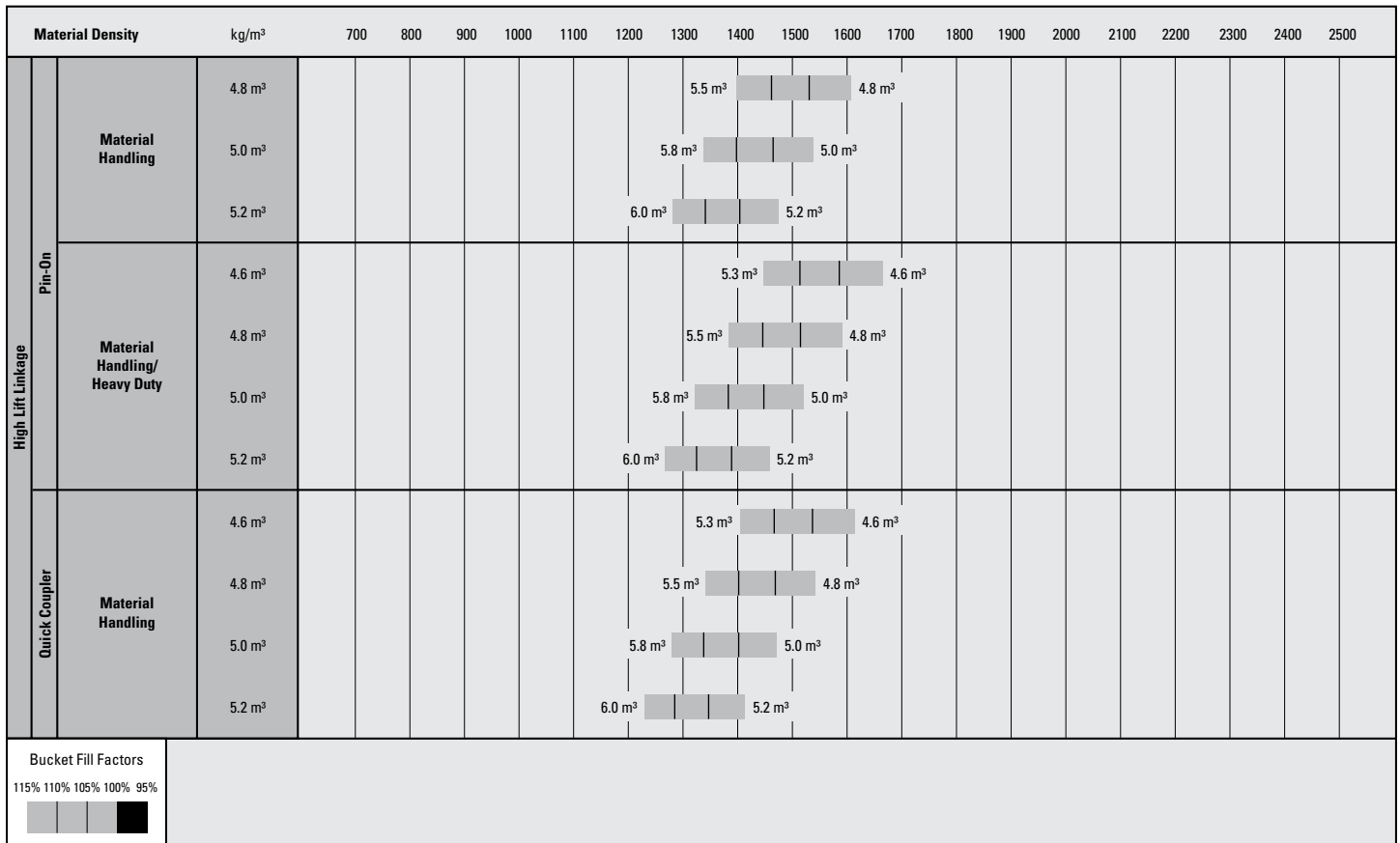
Bucket Fill Factors and Selection Chart

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

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

*As a % of ISO 7546 rated capacity.

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



Note: All buckets are showing Bolt-On Edges.

972M XE Wheel Loader Specifications

Operating Specifications with Buckets

Machine	Standard Linkage						High Lift Linkage Change**	
	Pin-On				Fusion™ QC	Universal QC		
Pin/Quick Coupler								
Bucket Type	Material Handling				Material Handling	Material Handling		
		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Bolt-On Cutting Edges	
Edge Type								
Capacity – Rated	m ³	4.80	4.80	5.00	5.00	4.60	4.60	—
Capacity – Rated at 110% Fill Factor	m ³	5.28	5.28	5.50	5.50	5.06	5.06	—
Width	mm	3220	3271	3220	3271	3220	3220	—
16† Dump Clearance at Maximum Lift and 45° Discharge	mm	3099	2936	3070	2908	3069	2954	336
17† Reach at Maximum Lift and 45° Discharge	mm	1272	1399	1300	1427	1301	1507	23
Reach at Level Lift Arm and Bucket Level	mm	3009	3214	3049	3254	3050	3277	274
A† Digging Depth	mm	103	103	103	103	103	39	-5
12† Shipping Length (with Bucket)	mm	9310	9534	9350	9574	9351	9529	338
B† Overall Height with Bucket at Maximum Lift	mm	6193	6193	6223	6223	6199	6439	336
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7607	7696	7618	7707	7616	7666	169
Static Tipping Load, Straight (With Tire Deflection)*	kg	18 380	18 196	18 306	18 121	17 763	16 413	-1598
Static Tipping Load, Straight (No Tire Deflection)*	kg	19 613	19 425	19 545	19 357	18 970	17 566	-1763
Static Tipping Load, Articulated (With Tire Deflection)*	kg	16 050	15 864	15 977	15 790	15 463	14 230	-1429
Static Tipping Load, Articulated (No Tire Deflection)*	kg	17 288	17 101	17 222	17 034	16 679	15 398	-1608
Breakout Force***	kN	196	195	191	189	191	160	-7
Operating Weight*	kg	24 977	25 114	25 026	25 164	25 409	25 690	85

*Static tipping loads and operating weights 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.

***Measured 102 mm behind tip of cutting edge with bucket hinge pin as pivot in accordance with SAE J732C.

Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

(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

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

972M XE Wheel Loader Specifications

Operating Specifications with Buckets

Machine		Standard Linkage					High Lift Linkage Change**
Pin/Quick Coupler		Pin-On					
Bucket Type		Material Handling Heavy Duty			Rock (V-Edge)		
Edge Type		Bolt-On Cutting Edges	FMT	Bolt-On Cutting Edges	FMT	Teeth and Segments	
Capacity – Rated	m ³	4.80	4.80	5.00	4.97	4.00	—
Capacity – Rated at 110% Fill Factor	m ³	5.28	5.28	5.50	5.47	4.40	—
Width	mm	3220	3294	3220	3294	3350	—
16† Dump Clearance at Maximum Lift and 45° Discharge	mm	3099	2933	3070	2911	3160	336
17† Reach at Maximum Lift and 45° Discharge	mm	1272	1476	1300	1497	1547	23
Reach at Level Lift Arm and Bucket Level	mm	3009	3271	3049	3301	3171	274
A† Digging Depth	mm	103	78	103	78	50	-5
12† Shipping Length (with Bucket)	mm	9310	9551	9350	9581	9472	338
B† Overall Height with Bucket at Maximum Lift	mm	6193	6234	6234	6265	6057	335
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7607	7703	7618	7711	7726	170
Static Tipping Load, Straight (With Tire Deflection)*	kg	18 233	17 921	18 151	17 857	18 317	-1583
Static Tipping Load, Straight (No Tire Deflection)*	kg	19 464	19 161	19 388	19 101	19 562	-1747
Static Tipping Load, Articulated (With Tire Deflection)*	kg	15 901	15 570	15 820	15 507	15 920	-1416
Static Tipping Load, Articulated (No Tire Deflection)*	kg	17 139	16 820	17 065	16 761	17 177	-1593
Breakout Force***	kN	196	200	190	195	193	-7
Operating Weight*	kg	25 121	25 506	25 176	25 550	26 189	85

*Static tipping loads and operating weights 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.

***Measured 102 mm behind tip of cutting edge with bucket hinge pin as pivot in accordance with SAE J732C.

Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

(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.

FMT = Flush Mounted Teeth

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

972M XE Wheel Loader Specifications

Operating Specifications with Buckets – Aggregate Handler

Machine	Aggregate Handler***			
Pin/Quick Coupler	Pin-On			
Bucket Type	Material Handling			
Edge Type		Bolt-On Cutting Edges	Bolt-On Cutting Edges	Bolt-On Cutting Edges
Capacity – Rated	m ³	5.00	5.20	5.40
Capacity – Rated at 110% Fill Factor	m ³	5.50	5.70	5.90
Width	mm	3230	3230	3230
16† Dump Clearance at Maximum Lift and 45° Discharge	mm	3092	3049	3021
17† Reach at Maximum Lift and 45° Discharge	mm	1272	1314	1343
Reach at Level Lift Arm and Bucket Level	mm	3014	3074	3114
A† Digging Depth	mm	108	108	108
12† Shipping Length (with Bucket)	mm	9005	9065	9105
B† Overall Height with Bucket at Maximum Lift	mm	6234	6265	6306
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7615	7631	7642
Static Tipping Load, Straight (With Tire Deflection)*	kg	19 368	19 309	19 227
Static Tipping Load, Straight (No Tire Deflection)*	kg	20 712	20 659	20 583
Static Tipping Load, Articulated (With Tire Deflection)*	kg	16 857	16 799	16 718
Static Tipping Load, Articulated (No Tire Deflection)*	kg	18 214	18 161	18 087
Breakout Force**	kN	191	186	181
Operating Weight*	kg	25 715	25 755	25 809

*Static tipping loads and operating weights 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.

**Measure 102 mm behind tip of cutting edge with bucket hinge pin as pivot in accordance with SAE J732C. Specifications and ratings confirm to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

***Aggregate Handler Configurations are NOT compatible with L5 Tires, Teeth, Teeth and Segments, and Spade Nose Rock Bucket.

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

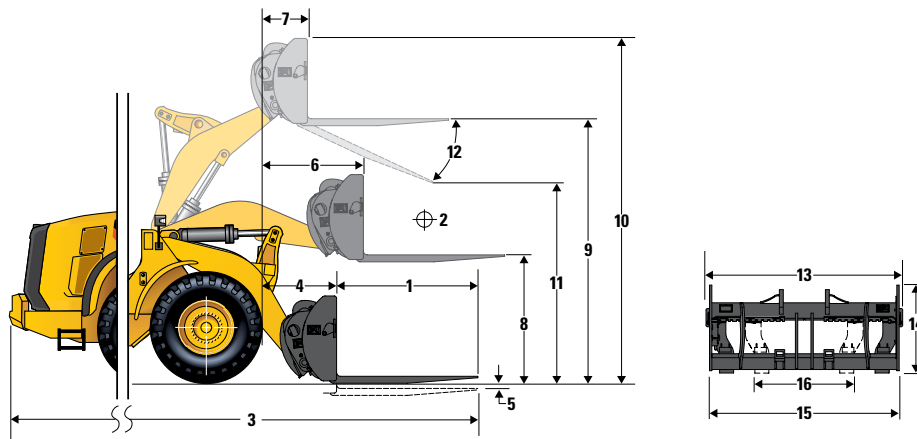
(No Tire Deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

†Illustration shown with Dimension charts.

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

972M XE Wheel Loader Specifications

Operating Specifications with Pallet Fork



Interface	Standard Counterweight	
		Fusion QC
1 Tine Length	mm	1829
2 Load Center	mm	915
3 Maximum Overall Length	mm	10 012
4 Reach with Forks at Ground Level	mm	1267
5 Ground to Top of Tine at Minimum Height and Fork Level	mm	10
6 Reach with Arms Horizontal and Forks Level	mm	1834
7 Reach with Fork at Maximum Height	mm	788
8 Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1956
9 Ground to Top of Tine at Maximum Height and Fork Level	mm	4262
10 Overall Height of Fork at Full Lift (Top of Carriage to Ground)	mm	5302
11 Clearance at Full Lift and Maximum Dump	mm	2516
12 Maximum Discharge Angle from Horizontal	degrees	51
13 Overall Carriage Width	mm	2528
14 Overall Carriage Height	mm	1130
15 Outside Tine Width (Maximum Spread)	mm	2178
16 Outside Tine Width (Minimum Spread)	mm	576
Tine Width (Single Tine)	mm	180.0
Tine Thickness	mm	90.0
Tine Capacity	kg	14 800
Static Tipping Load – Straight (Forks Level)*	kg	13 012
Static Tipping Load – Articulated (Forks Level)*	kg	11 401
Rated Load (SAE J1197 – 50% FTSTL)**	kg	5701
Rated Load (CEN EN 474-3 Rough Terrain – 60% FTSTL)**	kg	6841
Rated Load (CEN EN 474-3 Firm and Level Ground – 80% FTSTL)**	kg	9121
Operating Weight*	kg	24 378

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

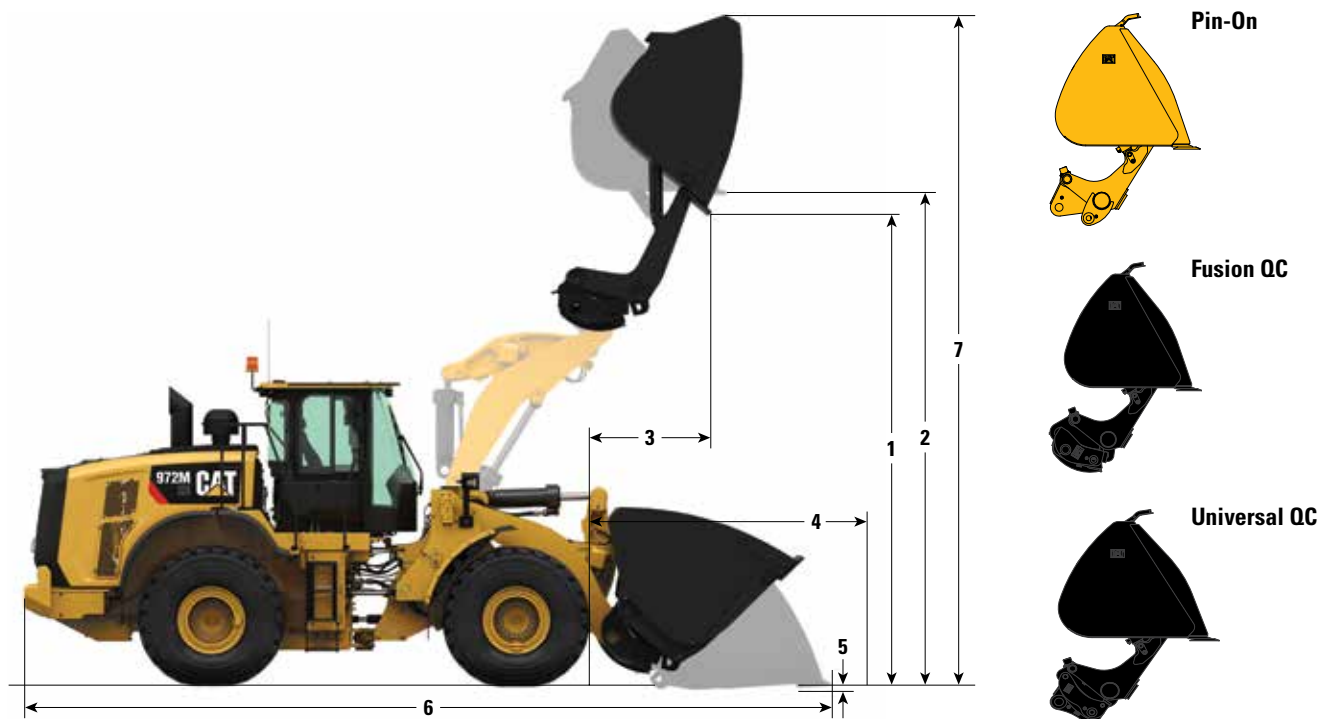
**The rated operating load for a loader equipped with a pallet fork is determined by: SAE J1197: 50% of full turn static tipping load or hydraulic limit. CEN EN 474-3: 60% of full turn static tipping load on rough terrain or hydraulic limit. CEN EN 474-3: 80% of full turn static tipping load on firm and level ground or hydraulic limit. SAE – Society of Automotive Engineers. CEN – European Committee for Standardization. Refer to the Forks Product Bulletins for capacity load charts.

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

QC = Quick Coupler

972M XE Wheel Loader Specifications

Operating Specifications with High Dump Buckets



Machine Interface	Aggregate Handler		
	Pin-On Bolt-On Cutting Edges	Fusion QC Bolt-On Cutting Edges	Universal QC Bolt-On Cutting Edges
Edge Type			
Capacity – Rated	m ³	11.10	11.10
Capacity – Rated at 110% Fill Factor	m ³	12.20	12.20
Width	mm	3656	3656
Nominal Material Density – 110% Fill Factor	kg/m ³	670	650
1 Dump Clearance at Maximum Lift, Maximum Rack, Bucket Rolled out to 45° Discharge	mm	4795	4811
2 Clearance at Maximum Lift, Maximum Rack, Bucket Rolled out to Level	mm	5477	5494
3 Reach at Maximum Lift, Maximum Rack, Bucket Rolled out to 45° Discharge	mm	1936	1947
4 Reach at Level Lift Arm and Bucket Level	mm	3958	3978
5 Digging Depth	mm	73	73
6 Overall Length	mm	9945	9965
7 Overall Height with Bucket at Maximum Height and Maximum Rack	mm	7614	7631
Clearance Circle (Radius) with Bucket at Carry Position	mm	8112	8083
Static Tipping Load, Straight (With Tire Deflection)*	kg	16 513	16 065
Static Tipping Load, Straight (No Tire Deflection)*	kg	17 877	17 415
Static Tipping Load, Articulated (With Tire Deflection)*	kg	14 153	13 710
Static Tipping Load, Articulated (No Tire Deflection)*	kg	15 544	15 092
Breakout Force	kN	114	113
Operating Weight*	kg	27 026	27 510

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

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

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

QC = Quick Coupler

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
POWER TRAIN			OPERATOR ENVIRONMENT		
Axles, ecology drains	✓		Air conditioner, heater, and defroster (auto temp and fan)	✓	
Axles, manually actuated differential lock front axle, open differential rear axle	✓		Beverage holders (2) with storage compartment for cell phone/MP3 player	✓	
Axles – automatic front/rear differential locks, axle oil cooler, 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 Exhaust Fluid (DEF) tank and pump	✓		Cab tie-off	✓	
Engine, Cat C9.3 – meets Stage V emission standards	✓		Cat seat cover, removable		✓
Fan, radiator, on demand	✓		Coat hook (2)	✓	
Fan, VPF (variable pitch fan), automatic and manual control		✓	Cover, HVAC metallic		✓
Fuel priming pump (electric)	✓		Door, remote opening system		✓
Fuel/water separator	✓		EH controls, SAL (single axis lever) lift and tilt function	✓	
Parking brake, disc and caliper	✓		EH controls, joystick lift and tilt: – Additional integrated roller switches for 3 rd and 4 th functions		✓
Precleaner, engine air intake	✓		EH controls, SAL 3 rd function – Additional roller switch for 4 th function		✓
Radiator, high debris, wide fin spacing		✓	EH parking brake	✓	
Transmission, Cat continuously variable	✓		Ergonomic cab access ladders and handrails	✓	
CAT® CONNECT TECHNOLOGY			Filter, carbon fresh air		✓
Detect technologies:			Horn, electric	✓	
Rear vision camera	✓		Light, two dome (cab)	✓	
Cat rear object detection		✓	Mirrors, heated rearview external with integrated spot mirrors		✓
Link technologies:			Mirrors, rearview external with integrated spot mirrors	✓	
Product Link	✓		Multi-function 18 cm color touchscreen display for rear vision camera, clock and machine parameters	✓	
VIMS™		✓	Post mounted membrane 16 switch keypad	✓	
Payload technologies:		✓	Precleaner, HVAC		✓
Cat Production Measurement 2.0 (CPM), Printer, Cat Production Measurement, Aggregate Autodig			Precleaner, HVAC (RESPA)		✓
Advanced Productivity subscription		✓	Radio, AM/FM/CD/USB/MP3 Bluetooth®		✓
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
OPERATOR ENVIRONMENT <i>(continued)</i>			ELECTRICAL AND LIGHTING <i>(continued)</i>		
Roof, metallic		✓	Main disconnect switch	✓	
Seat, cloth, air suspension	✓		Receptacle start (cables not included)	✓	
Seat, suede/cloth, air suspension, heated		✓	Reversing strobes		✓
Seat, leather/cloth, air suspension, heated/cooled		✓	Speed limiter – 20 km/h		✓
Seat belt, 51 mm retractable, with indicator	✓		Starter, electric, heavy duty	✓	
Seat belt, 4 point harness, with indicator		✓	Starting and charging system (24V)	✓	
Steering, EH joystick, speed sensing with force feedback	✓		Secondary steering	✓	
Sun visor, front	✓		Speed limiter, adjustable	✓	
Sun visor, rear		✓	FLUIDS		
Viscous mounts	✓		Biodegradable oil, Cat HYDO™		✓
Wet-arm wipers/washers front and rear, intermittent front wiper	✓		Premixed extended life coolant with freeze protection to -34°C	✓	
Windows, rubber mounted		✓	Premixed extended life coolant with freeze protection to -50°C		✓
Window, sliding (left and right sides)	✓		HYDRAULICS		
Windows, with front guard		✓	Couplings, Cat O-ring face seal	✓	
Windows, with heavy duty front guard		✓	Hoses, Cat XT™	✓	
Windows, with full guards front, rear and sides		✓	Hydraulic oil cooler (swing-out)	✓	
ELECTRICAL AND LIGHTING			Hydraulic system, load sensing	✓	
Alarm, back-up	✓		Oil sampling valves	✓	
Alternator, 145-amp brushed	✓		3 rd function with Ride Control		✓
Batteries (2), maintenance free 1,400 CCA	✓		4 th function with Ride Control		✓
Emergency engine shutdown switch	✓		Remote diagnostic pressure taps	✓	
External seat belt indicator light		✓	Ride control, 2V	✓	
Ignition key; start/stop switch	✓		Steering, load sensing	✓	
Lighting system: four halogen work lights (cab mounted), two halogen roading lights (with signals), two halogen rear vision lights (hood mounted), two rear LED position/stop/turn signal lights	✓		LINKAGE		
Work lights, four additional halogen cab-mounted or;		✓	Extended capacity		✓
Work lights, two additional auxiliary front HI LED and two additional auxiliary rear LED cab-mounted, two LED work lights in the radiator grill, LED front turn signals, replacement of the standard four halogen cab mounted work lights with four LED work lights, LED roading lights			High lift		✓
			Kickout, lift and tilt, automatic	✓	
			Quick coupler ready		✓
			Z-bar, cast crosstube/tilt lever	✓	
			STARTERS, BATTERIES, AND ALTERNATORS		
			Cold start – 240V		✓
			WORK TOOLS		
			Forks, logging		✓
			Forks, pallet		✓
			Fusion quick coupler		✓
			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
COMPUTERIZED MONITORING SYSTEM			OTHER STANDARD AND OPTIONAL EQUIPMENT		
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	✓	
			Wheel chocks		✓
			OTHER CONFIGURATIONS		
			Aggregate handler		✓
			Industrial and waste handler		✓

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

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

© 2018 Caterpillar. All Rights Reserved. CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, ACERT, Cat Connect, Product Link, VIMS, XT, Fusion, HYDO, "Caterpillar Yellow", the "Power Edge" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEXQ2435-00 (12-2018)
2019 Product Update
Europe

