

## DICHIARAZIONE CE DI CONFORMITÀ DELLA MACCHINA

Produttore: CATERPILLAR INC., 100 N.E. ADAMS STREET, PEORIA, IL 61629, U.S.A.

Persona autorizzata a compilare il fascicolo tecnico e a comunicarne la parte o le parti rilevanti alle autorità dei Paesi membri dell'UE su richiesta:

Standards & Regulations Manager, Caterpillar France S.A.S 40, Avenue  
Leon-Blum B.P.55 F38041, Grenoble Cedex 9

Il sottoscritto, T. J. Bluth, attesta che l'attrezzatura per cantiere elencata di seguito

Descrizione:	Denominazione generica:	Attrezzatura movimento terra
	Funzione:	Caricatore Gommato
	Modello/Tipo:	972M
	Numero di serie:	*CAT0972MTJPR00238*
	Nome commerciale:	Caterpillar

Conforme alle disposizioni delle seguenti Direttive

Direttive	Organismo notificato	Documento n°
2000/14/EC as amended 2005/88/EC (1)	Lloyd's Register (2)	0088/NED/HOU/NAO/ 1101378/1
2006/42/EC	..... N/A .....	972L-GOS201
2004/108/EC	..... N/A .....	972L-GOS201

(1) Livello di potenza sonora garantito - 108 dB(A)      Allegato VIII  
Tipo di attrezzatura rappresentativa Livello di potenza sonora 107 dB(A)  
Potenza del motore per ISO 14396 - 247.0 kW      Regime nominale del motore - 1800 Giri/min  
Documentazione tecnica accessibile tramite la persona suindicata, autorizzata a compilare il fascicolo tecnico

(2) Lloyd's Register Quality Assurance Ltd., LRQA Centre, Hiramford, Middlemarch Office Village, Siskin Drive, Coventry CV3 4FJ, UK

Norme armonizzate prese in considerazione: EN 474-1:2006+A1:2009, EN 474-3:2006+A1:2009

**Eseguita a**  
CATERPILLAR INC.  
901 W. WASHINGTON STREET  
CV4110  
EAST PEORIA, IL 61630 U.S.A.  
**Data**  
2012-11-20

**Firma**



**Nome / Posizione**  
T. J. Bluth / Administrative



00684935

# 972K Wheel Loader Specifications

## Engine

Engine Model	Cat® C9.3 ACERT™	
Max. Gross Power (1,800 rpm) – SAE J1995	237 kW	318 hp
Max. Gross Power (1,800 rpm) – SAE J1995 (metric)		322 hp
Max. Net Power (1,800 rpm) – ISO 9249	215 kW	288 hp
Max. Net Power (1,800 rpm) – ISO 9249 (metric)		292 hp
Max. Net Power (1,800 rpm) – SAE J1349	215 kW	288 hp
Max. Net Power (1,800 rpm) – SAE J1349 (metric)		292 hp
Max. Net Power (1,800 rpm) – EEC 80/1269	215 kW	288 hp
Max. Net Power (1,800 rpm) – EEC 80/1269 (metric)		292 hp
Peak Gross Torque (1,400 rpm) – SAE J1995	1426 Nm	1,051 ft-lb
Peak Net Torque (1,400 rpm) – SAE J1349	1335 Nm	985 ft-lb
Bore	115 mm	4.5 in
Stroke	149 mm	5.9 in
Displacement	9.3 L	568 in³

- Cat engine with ACERT Technology – meets Tier 4 Interim/Stage IIIB emission standards.

## Weights

Operating Weight	26 212 kg	57,770 lb
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- For 4.8 m³ (6.3 yd³) general purpose buckets with BOCE.

## Buckets

Bucket Capacities	2.90 m³ 9.90 m³	3.75 yd³ 13.00 yd³
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- Refer to bucket selection chart.

## Operating Specifications

Static Tipping Load Full 37° Turn – ISO 14397-1*	16 317 kg	35,963 lb
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Static Tipping Load Full 37° Turn – Rigid Tires**	17 642 kg	38,884 lb
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Breakout Force	196 kN	44,075 lb
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- For 4.8 m³ (6.3 yd³) general purpose buckets with BOCE.
- \* Full compliance to ISO (2007) 14397-1 Sections 1 thru 6, which requires 2% verification between calculations and testing.
- \*\* Compliance to ISO (2007) 14397-1 Sections 1 thru 5.

## Transmission

Forward 1	7.0 km/h	4.4 mph
Forward 2	12.5 km/h	7.8 mph
Forward 3	21.4 km/h	13.3 mph
Forward 4	36.9 km/h	22.9 mph
Reverse 1	8.0 km/h	5.0 mph
Reverse 2	14.3 km/h	8.9 mph
Reverse 3	24.5 km/h	15.2 mph
Reverse 4	42.2 km/h	26.2 mph

- Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 826 mm (33 in) roll radius.

## Hydraulic System

Steering System	Piston	
Pump Type		
Implement System – Maximum Pump Output (2,275 rpm)	340 L/min	90 gal/min
Implement System – Maximum Operating Pressure	31 000 kPa	4,496 psi
Implement System – Optional 3rd Function Maximum Flow	300 L/min	79.3 gal/min
Implement System – Optional 3rd Function Maximum Pressure	20 700 kPa	3,000 psi
Hydraulic Cycle Time – Raise from Carry Position	5.9 Seconds	
Hydraulic Cycle Time – Dump, at Maximum Raise	2.0 Seconds	
Hydraulic Cycle Time – Lower, Empty, Float Down	2.4 Seconds	
Hydraulic Cycle Time – Total	10.3 Seconds	

- Cycle time with rated payload.

## Brakes

Brakes	Meet OSHA, SAE J1473 OCT90 and ISO 3450-1985 required standards
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## Axles

Front	Fixed
Rear	Oscillating ±13 degrees
Maximum Single-Wheel Rise and Fall	495 mm    19.5 in

## Tires

- Choose from a variety of tires to match your application.
- Choices include:
  - 26.5R25 VLT BS E3 Radial
  - 26.5R25 VJT BS E3/L3 Radial
  - 26.5R25 VMT BS L3 Radial
  - 750/65R25 XLD L3T MX L3 Radial
  - 26.5R25 XHA2 MX L3 Radial
  - 26.5R25 XLD D1 MX L4 Radial
  - 26.5R25 VSNT BS E4/L4 Radial
  - 26.5R25 VSDL BS L5 Radial
  - 26.5R25 XLDD2 MX L5 Radial
  - 26.5R25 X MINE D2 MX L5 Radial
- NOTE: In certain applications (such as load and carry), the loader's productive capabilities might exceed the tires' tonnes-km/h (ton-mph) capabilities. Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model. Other special tires are available on request.

## Cab

- |           |                             |
|-----------|-----------------------------|
| ROPS/FOPS | Meets SAE and ISO standards |
|-----------|-----------------------------|
- Cat cab with a four post integrated Rollover Protective Structure (ROPS) are standard in North America and Europe.
  - ROPS meets SAE J1040 APR88 and ISO 3471:1994 criteria.
  - Falling Objects Protective Structure (FOPS) meets SAE J231 JAN81 and ISO:1992 Level II criteria.

## 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.
- The dynamic operator sound pressure level for a standard machine configuration, measured according to the procedures specified in "ISO 6396:2008", is 69 dB(A) with a cooling fan speed set at 70 percent of the maximum value.
- The sound power level that is labeled on the machine is 108 LWA. The measurement of the sound power level was made according to the test procedures and conditions that are specified in the European Union Directive "2000/14/EC" as amended by "2005/88/EC".

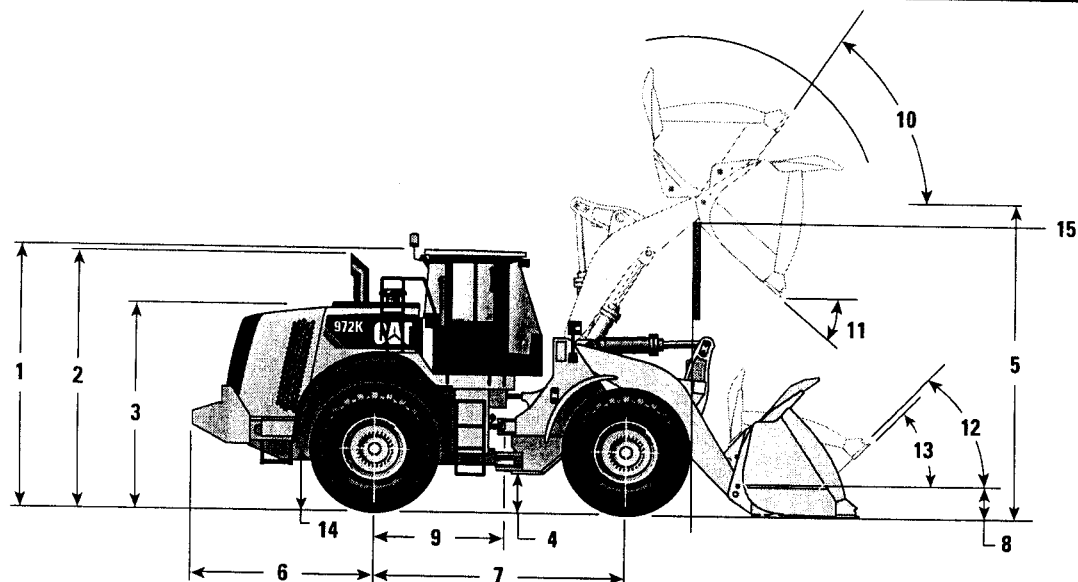
## Service Refill Capacities

Fuel Tank – Standard	381 L	101 gal
Cooling System	66 L	17.4 gal
Crankcase	24.5 L	6.5 gal
Transmission	50 L	13.2 gal
Differentials and Final Drives – Front	64 L	16.9 gal
Differentials and Final Drives – Rear	64 L	16.9 gal
Hydraulic Tank	198 L	52.3 gal

# 972K Wheel Loader Specifications

## Dimensions

All dimensions are approximate and based on L3 Michelin XHA2 tires.



1	Height to Top of ROPS	3547 mm	11'7"
2	Height to Top of Exhaust Pipe	3518 mm	11'6"
3	Height to Top of Hood	2828 mm	9'3"
4	Ground Clearance with 26.5R25 (See Tire Option Chart for Other Tires)	475 mm	1'6"
5	B-Pin Height - Standard	4456 mm	14'7"
	B-Pin Height - High Lift	4792 mm	15'8"
6	Center Line of Rear Axle to Edge of Counterweight	2473 mm	8'1"
7	Wheelbase	3450 mm	11'3"
8	B-Pin Height @ Carry - Standard	689 mm	2'3"
9	Center Line of Rear Axle to Hitch	1725 mm	5'7"
10	Rack Back @ Maximum Lift	56 degrees	
11	Dump Angle @ Maximum Lift	48 degrees	
12	Rack Back @ Carry	50 degrees	
13	Rack Back @ Ground	41 degrees	
14	Height to Center Line of Axle	798 mm	2'7"
15	Lift Arm Clearance	3804 mm	12'6"
	Lift Arm Clearance @ High Lift	4153 mm	13'6"

## Operating Specifications

Bucket Type		Material Handling – Pin On					
Edge Type		Bolt-On Edges	Teeth and Segments	Bolt-On Edges	Teeth and Segments	Bolt-On Edges	Teeth and Segments
Capacity – Rated (\$)	m <sup>3</sup>	4.60	4.60	4.80	4.80	5.00	5.00
	yd <sup>3</sup>	6.02	6.02	6.28	6.28	6.54	6.54
Capacity – Struck (\$)	m <sup>3</sup>	3.90	3.90	4.01	4.01	4.20	4.20
	yd <sup>3</sup>	5.10	5.10	5.24	5.24	5.49	5.49
Width (\$)	mm	3220	3271	3220	3271	3220	3271
	ft/in	10'6"	10'8"	10'6"	10'8"	10'6"	10'8"
Dump Clearance at Maximum Lift and 45° Discharge (\$)	mm	3120	2957	3099	2936	3070	2908
	ft/in	10'2"	9'8"	10'2"	9'7"	10'0"	9'6"
Reach at Maximum Lift and 45° Discharge (\$)	mm	1286	1413	1307	1434	1335	1462
	ft/in	4'2"	4'7"	4'3"	4'8"	4'4"	4'9"
Reach at Level Lift Arm and Bucket Level (\$)	mm	3014	3219	3044	3249	3084	3289
	ft/in	9'10"	10'6"	9'11"	10'7"	10'1"	10'9"
Digging Depth (\$)	mm	103	103	103	103	103	103
	in	4"	4"	4"	4"	4"	4"
Overall Length	mm	9188	9412	9218	9442	9258	9482
	ft/in	30'2"	30'11"	30'3"	31'0"	30'5"	31'2"
Overall Height with Bucket at Maximum Lift	mm	6162	6162	6193	6193	6223	6223
	ft/in	20'3"	20'3"	20'4"	20'4"	20'5"	20'5"
Loader Clearance Circle with Bucket at Carry Position (\$)	mm	14 957	15 137	14 974	15 154	14 996	15 177
	ft/in	49'1"	49'8"	49'2"	49'9"	49'3"	49'10"
Static Tipping Load, Straight (ISO)*	kg	18 614	18 432	18 562	18 380	18 488	18 304
	lb	41,026	40,625	40,912	40,509	40,748	40,343
Static Tipping Load, Straight (Rigid Tire)*	kg	19 921	19 734	19 874	19 688	19 807	19 619
	lb	43,906	43,495	43,803	43,392	43,655	43,241
Static Tipping Load, Articulated (ISO)*	kg	16 255	16 070	16 203	16 019	16 130	15 945
	lb	35,826	35,419	35,713	35,306	35,552	35,143
Static Tipping Load, Articulated (Rigid Tire)*	kg	17 554	17 368	17 509	17 322	17 443	17 255
	lb	38,690	38,280	38,590	38,179	38,445	38,031
Breakout Force** (\$)	kN	201	199	196	195	191	189
	lb	45,188	44,877	44,216	43,907	42,968	42,659
Operating Weight*	kg	26 257	26 395	26 292	26 430	26 342	26 479
	lb	57,870	58,174	57,946	58,250	58,056	58,360

\* 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, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

\*\* Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

\*\*\* Rock bucket specifications are given on Michelin 26.5R25 XLDD2 L5 Radial tires.

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

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

(Rigid Tire) Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

# 972K Wheel Loader Specifications

## Operating Specifications

Bucket Type		Material Handling – Pin On		Material Handling – Fusion QC			
Edge Type		Bolt-On Edges	Teeth and Segments	Bolt-On Edges	Teeth and Segments	Bolt-On Edges	Teeth and Segments
Capacity – Rated (§)	m <sup>3</sup>	5.20	5.20	4.60	4.60	4.80	4.80
	yd <sup>3</sup>	6.80	6.80	6.02	6.02	6.28	6.28
Capacity – Struck (§)	m <sup>3</sup>	4.34	4.34	3.90	3.90	4.01	4.01
	yd <sup>3</sup>	5.68	5.68	5.10	5.10	5.24	5.24
Width (§)	mm	3220	3271	3220	3271	3220	3271
	ft/in	10'6"	10'8"	10'6"	10'8"	10'6"	10'8"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	3049	2886	3069	2907	3048	2885
	ft/in	10'0"	9'5"	10'0"	9'6"	10'0"	9'5"
Reach at Maximum Lift and 45° Discharge (§)	mm	1356	1483	1336	1463	1357	1484
	ft/in	4'5"	4'10"	4'4"	4'9"	4'5"	4'10"
Reach at Level Lift Arm and Bucket Level (§)	mm	3114	3319	3085	3290	3115	3320
	ft/in	10'2"	10'10"	10'1"	10'9"	10'2"	10'10"
Digging Depth (§)	mm	103	103	103	103	103	103
	in	4"	4"	4"	4"	4"	4"
Overall Length	mm	9288	9512	9259	9483	9289	9513
	ft/in	30'6"	31'3"	30'5"	31'2"	30'6"	31'3"
Overall Height with Bucket at Maximum Lift	mm	6265	6265	6199	6199	6231	6231
	ft/in	20'7"	20'7"	20'5"	20'5"	20'6"	20'6"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	15 013	15 194	14 991	15 175	15 008	15 192
	ft/in	49'4"	49'11"	49'3"	49'10"	49'3"	49'11"
Static Tipping Load, Straight (ISO)*	kg	18 435	18 251	17 946	17 764	17 893	17 711
	lb	40,631	40,225	39,553	39,153	39,437	39,036
Static Tipping Load, Straight (Rigid Tire)*	kg	19 759	19 571	19 231	19 046	19 183	18 997
	lb	43,550	43,135	42,385	41,977	42,280	41,871
Static Tipping Load, Articulated (ISO)*	kg	16 078	15 892	15 617	15 433	15 565	15 381
	lb	35,438	35,026	34,420	34,016	34,306	33,900
Static Tipping Load, Articulated (Rigid Tire)*	kg	17 396	17 208	16 900	16 715	16 853	16 667
	lb	38,342	37,927	37,247	36,840	37,145	36,735
Breakout Force** (§)	kN	187	185	191	190	187	186
	lb	42,074	41,765	43,096	42,788	42,204	41,895
Operating Weight*	kg	26 376	26 514	26 725	26 862	26 759	26 897
	lb	58,133	58,437	58,900	59,204	58,977	59,280

\* 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, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

\*\* Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

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