



Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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Engine		
Engine Model	Cat C9.3	
Gross Power (SAE J1995:2014)	255 kW	342 hp
Net Power (SAE J1349:2011)	249 kW	334 hp
Engine Power (ISO 14396:2002)	252 kW	338 hp
Bore	115 mm	4.5 in
Stroke	1149 mm	45.2 in
Displacement	9.3 L	567.5 in3

• Advertised power is tested at 1,700 rpm.

• The net power advertised is the power available at the flywheel when the engine is equipped with alternator, air cleaner, muffler, and fan at minimum speed.

- Net power when the fan is at maximum speed is 249 kW (334 hp) per the SAE reference conditions.
- Meets U.S. EPA Tier 4 Final, either EU Stage V or EU Stage IV*, Japan 2014, and Korea Tier 4 Final emission standards.
- DEF used in Cat SCR systems must meet the requirements outlined in ISO 22241-1. ISO 22241-1 requirements are met by many brands of DEF, including those that carry the AdBlue or API certifications.

*Stage IV engines comply with the transition provisions of the EU nonroad emission regulation.

No Engine Derating Below	914 m	3,000 ft
Peak Engine Torque Gross (SAE J1995:2014)	1729 N·m	1,275 lbf-ft
Peak Engine Torque Net (SAE J1349:2011)	1712 N·m	1,263 lbf-ft
Peak Engine Torque Speed	1,200 rpm	
187 1 1 4		

Weights

Rated Payload

26.5 tons

24 tonnes

Air Conditioning System

• The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.1 kg of refrigerant which has a CO_2 equivalent of 1.716 metric tonnes.

Body Capacities

Heaped SAE 2:1	15 m3	19.6 yd3
Struck	11 m3	14.4 yd3
Tailgate Heaped SAE 2:1	15.6 m3	20.4 yd3
Tailgate Struck	11.1 m3	14.5 yd3

Transmission

Forward 1	8.1 km/h	5.0 mph
Forward 2	15.2 km/h	9.4 mph
Forward 3	23.2 km/h	14.4 mph
Forward 4	35.5 km/h	22.1 mph
Forward 5	49.4 km/h	30.7 mph
Forward 6	58.4 km/h	36.3 mph
Reverse 1	8.9 km/h	5.5 mph

Sound Levels

Interior Cab

• The declared dynamic operator sound pressure level is 69±2 dB(A) when ISO 6396:2008 is used to measure the value for an enclosed cab. The measurement was conducted at 70% of the maximum cooling fan's speed. The sound level may vary at different cooling fan speeds. The measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.

69±2 dB(A)

• Hearing protection may be needed when operating with an open operator station and cab or when not properly maintained or doors/ windows open for extended periods or in noisy environments.

Operating Weights

Front Axle – Empty	14 050 kg	30,974 lb
Center Axle – Empty	4646 kg	10,242 lb
Rear Axle – Empty	4426 kg	9,757 lb
Total – Empty	23 122 kg	50,975 lb
Front Axle – Rated Load	2500 kg	5,511 lb
Center Axle – Rated Load	10 750 kg	23,699 lb
Rear Axle – Rated Load	10 750 kg	23,699 lb
Total – Rated Load	24 000 kg	52,910 lb
Front Axle – Loaded	16 549 kg	36,484 lb
Center Axle – Loaded	15 397 kg	33,944 lb
Rear Axle – Loaded	15 176 kg	33,457 lb
Total – Loaded	47 122 kg	103,886 lb

Body Plate

High strength Brinell HB450 wear resistant steel

Body Plate Thickness

Front Plate	7 mm	0.28 in
Base Plate	13 mm	0.51 in
Side Plates	11 mm	0.43 in
Scow Plate	13 mm	0.51 in

Service Refill Capacities

Fuel Tank	412.0 L	91.0 gal
Cooling System	83.0 L	18.0 gal
Steering/Hoist Hydraulic System	110.0 L	24.0 gal
Engine Crankcase	38.0 L	8.0 gal
Transmission	47.0 L	10.0 gal
OTG	24.0 L	5.0 gal
Final Drives (each)	7.5 L	1.6 gal
Axles (each)	26/28/26 L	6/8/08 gal
Diesel Exhaust Fluid (DEF) Tank	20.0 L	4.0 gal

Body Hoist

Raise Time	10 Seconds
Lower Time	8 Seconds

Standards

ISO 3450:2011
ISO 3449:2005 Level II
ISO 3471:2008
ISO 5010:2019

Dimensions

All dimensions are approximate.



		mm	ft/in
1	Body Height Fully Tipped	6468	21'3"
2	Load over Height	2916	9'5"
3	Ground Clearance – Body Fully Tipped	563	1'10"
4	Body Length	5783	19'0"
5	Body Length Inside	5411	17'9"
6	Ground Clearance	545	1'9"
7	Rear Axle Center to Body Rear	1556	5'1"
8	Mid Axle to Rear Axle Center	1700	5'7"
9	Mid Axle to Front Axle (centers)	3979	13'1"
10	Front Axle Center to Machine Front	3210	10'6"
11	Overall Length	10 445	34'3"
12	Overall Length with Tailgate	10 593	34'8"
13	Height Transport Position	3508	11'6"
14	Overall Width	3676	12'1"
15	Width over Tailgate/Width Including Tailgate	2984	9'10"
16	Body Width	2902	9'6"
17	Track Width	2275	7'6"
18	Width over Tire	2877	9'5"
19	Width over Fenders	2950	9'8"

Turning Circle

Dimensions are for machines equipped with 23.5R25 tires.

Turning Dimensions

Steer Angle – From Center Left/Right	45°	
SAE Turning Radius	7470 mm	294 in
Clearance Radius	8075 mm	318 in
Inside Radius	3879 mm	153 in
Aisle Width	5332 mm	210 in

Steering

Lock to Lock

4.75 seconds at 60 rpm



Optimal Loader/Truck Pass Matching

Hydraulic Excavators		349/352	336		
Passes		4-5		5-6	
Wheel Loaders	972M/972M XE	966M/966M XE	962M	950M	
Passes	3-4	4	4-5	5	

An optimum system match gives you a major productivity advantage. The 725 is an excellent match for the Cat 349/352 and 336 Hydraulic Excavators and Cat 972M, 966M, 962M, and 950M Wheel Loaders. Having matched loading and hauling tools results in increased production and lower system costs per unit of volume moved.

Gradeability/Speed/Rimpull

To determine performance, read from Standard Gross Weight down to Total Resistance %. Total Resistance equals actual % grade plus 1% for each 10 kg/metric ton (20 lb/ton) of Rolling Resistance. From this point, read horizontally to the curve with the highest attainable speed range. Then, go down to Speed. Usable Rimpull depends on traction available.



- 3 3rd Gear
- 4 4th Gear
- 5 5th Gear
- 6 6th Gear

Retarding Performance

To determine performance, read from Gross Weight down to % Effective Grade. Effective Grade equals actual % favorable grade plus 1% for each 10 kg/metric ton (20 lb/ton) of Rolling Resistance. From this point, read horizontally to the curve with the highest attainable speed range. Then, go down to Maximum Speed. Retarding effect on these curves represents full application of the retarder.



GROSS MACHINE WEIGHT

4 – 4th Gear

5 – 5th Gear

6 – 6th Gear

Standard and Optional Equipment

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

	Standard	Optional
OPERATOR ENVIRONMENT		
Air conditioning with R134a refrigerant	\checkmark	
Adjustable air vents	\checkmark	
Combined gear selection and hoist control lever	\checkmark	
Glass windows: front, laminated and tinted; sides and rear, toughened and tinted	\checkmark	
Heater and defroster with four-speed fan	✓	
Infrared glass – high ambient cab		\checkmark
Liquid Crystal Display (LCD): alert indicator, selected gear and direction, speed or auto shift, Operation and Maintenance Manual (OMM), primary steering failure (warning), seat belt warning, secondary steering failure, Diesel Particulate Filter (DPF) regeneration filter, secondary steering energy source engaged, hour meter, retarder active	~	
Mirrors: extensive arrangement for improved visibility	\checkmark	
Mirrors, heated motorized		\checkmark
Machine operation monitoring system: action lamp, engine oil pressure, primary steering system, left and right turn signal, high beam, coolant temperature, tachometer, parking brake, fuel level, transmission oil temperature, brake system, transmission hold, hoist control, hydraulic system, charging system, transmission fault, traction control system, check engine lamp		
Radio, Bluetooth stereo system		~
Seats: operator – fully adjustable, air suspension, retractable lap belt; trainer – padded with retractable lap belt	√	
Seat, heated/cooled		~
Seat belt, four-point		~
Secondary steering – electro hydraulic	✓	
Storage: cup holder, flask receptacle (under the secondary seat), under seat storage, door pocket, behind seat storage, coat hook	~	
Sun visor	\checkmark	
Tilt and telescopic steering wheel	\checkmark	
Touchscreen display incorporating the rearview camera video feed	√	
Window blinds		\checkmark
Windows (tinted) opening both sides	\checkmark	
Windshield wiper and washer, two speed, intermittent (front)	~	
Single-speed rear wiper		~

	Standard	Optional
TECHNOLOGY		
Machine Security System (MSS)		\checkmark
Cat Production Measurement payload		\checkmark
monitoring system		
PLE641 (cellular) dependent on location and	\checkmark	
licensing agreement		
Cat Detect with Stability Assist	V	
PLE631 (satellite) ELECTRICAL AND LIGHTING		v
	✓	
Batteries (two) maintenance free	v	
Cold weather start attachment		•
Engine block heater		<u> </u>
Ether start		v
Electrical system: 24-volt, 5A 24- to 12-volt converter	v	
Flashing LED beacon		
Horn	√	
Lighting systems: cab interior, two head lamps,	 ✓	
two width marker, two reversing, work light/cab		
access light, two stop/tail lights, front and rear		
direction indicators		
Main disconnect switch	\checkmark	
Remote starting receptacle (cables not included)	\checkmark	
Roof mounted High Intensity Discharge (HID)		\checkmark
work lights		
POWER TRAIN		
Auto shift six-speed forward and single	\checkmark	
speed reverse transmission		
Cat C9.3 engine	\checkmark	
CX31 transmission	\checkmark	
Cat Clean Emissions Module (CEM)	\checkmark	
and exhaust aftertreatment package		
Differentials: standard with automatic clutched	\checkmark	
inter- and cross-axle differential locks		
Dual circuit oil immersed, enclosed brakes – all wheels	✓	
Hydraulic retarder	<u> </u>	
Three axle, six-wheel drive	· ·	
SAFETY	•	
Reverse alarm	1	
Rearview camera	· ·	
ROPS/FOPS cab	•	
GUARDS	·	
Axle		
Crankcase	· ✓	
Front dump body spill guard, integral part of	· ·	
fabricated body	*	
Radiator	√	
Rear window	\checkmark	

Standard and Optional Equipment

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

	Standard	Optional
OTHER STANDARD AND OPTIONAL EQUIPMENT		
Auto lube installation for automatic greasing of bearings		~
Bare chassis (no body) standard wheel base		\checkmark
Body liners		\checkmark
Cold weather coolant -51°C (-60°F)		\checkmark
Exhaust heated body		\checkmark
Fast fuel fill		\checkmark
Fuel additive, anti-waxing		\checkmark

	Standard	Optional	
OTHER STANDARD AND OPTIONAL EQUIPMENT (CONTINUED)			
Mud flaps: wheel arch and body mounted with transportation tiebacks	\checkmark		
Scissor tailgate		\checkmark	
S·O·S SM sampling valves	\checkmark		
Sound suppression (standard in EFTA*)	\checkmark		
Sound suppression (optional outside EFTA*)		\checkmark	
Tires, six 23.5R25	\checkmark		
Vandalism protection: lockable caps	\checkmark		
Wheel chocks		\checkmark	

* EFTA countries are EU countries plus Iceland, Norway, Lichtenstein, and Switzerland.

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.

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