



# CAT<sup>®</sup> 725 (05)

## ARTICULATED TRUCK BARE CHASSIS

Cat<sup>®</sup> chassis are the right choice for specialty truck bodies (coal, trash), water trucks, fuel and lube, service vehicles, container carriers, hook lifts, and other machine derivatives. These partial machine configurations allow industrial, waste, material handling, quarry, and mining customers to purchase specialty solutions from our global Cat dealer network — with support every step of the way.

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### PROVEN CAT<sup>®</sup> TRUCK PLATFORM

Cat trucks are built for durability, reliability, and efficiency to deliver the performance you need in some of the toughest applications around the world.

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### PROVEN RELIABILITY

The Cat C13B engine delivers proven reliability across a variety of platforms. Terrain-based throttle control smooths throttle input over rough terrain to improve ride quality. Enhanced reliability through commonality and design simplicity with long life to overhaul. Hydraulic retarder improves response and increases retarding power for controlled descent of grades.

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### COMFORTABLE OPERATOR ENVIRONMENT

Simple, intuitive control and display layouts allow operator to focus on safe machine operation, while maintaining productivity. Redesigned cab structure increases glass area, improving rear quarter visibility. Cab-mounted mirrors for excellent visibility, reduced vibration, and easy folding. Front visibility mirror gives an improved view immediately in front of the machine.

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### BOOST FUEL EFFICIENCY

Next generation machine design improves fuel economy with minimized maintenance costs and the same great power and response. Economy mode reduces fuel use without affecting productivity and can be engaged with a single button.

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### BUILT-IN SAFETY FEATURES

Seat belt indicator provides audible and visible alert if seatbelt is not latched while the machine is on. Operator-presence detection system applies parking brake if gear is engaged and operator is not seated. Cat Detect with Stability Assist provides audible and visual alerts to the operator if the tractor and/or trailer unit is approaching an unstable angle during operation.

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### REDUCED MAINTENANCE COSTS

Durable design and easier servicing mean maximized uptime and reduced service costs. Universal joints are lubricated for life, eliminating any maintenance. Coolant formula improves component life by reducing corrosion. Entire machine is designed for greater ease of maintenance with side-tilting cab, electrically raised hood, access panels, and Cat Data Link connector.

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### SUPPORTED BY THE CAT DEALER NETWORK

- + Full support of Cat dealer and parts network
- + Cat dealer installation & retrofit kits available
- + Eligible for Equipment Protection Plans (EPP) & Customer Value Agreements (CVAs)



# 725 Articulated Truck Bare Chassis Specifications

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

## Engine

Engine Model	Cat® C13B	
Gross Power (SAE J1995)	263 kW	352 hp
Net Power (SAE J1349)	257 kW	331 hp
Engine Power (ISO 14396)	259 kW	334 hp
Bore	130 mm	5.1 in
Stroke	157 mm	6.2 in
Displacement	12.5 L	763 in <sup>3</sup>
No Engine Derating Below	3810 m	12,500 ft
Peak Engine Torque Gross (SAE J1995:2014)	1941 N·m	1,431 lbf·ft
Peak Engine Torque Net (SAE J1349:2011)	1712 N·m	1,263 lbf·ft
Peak Engine Torque Speed	1,200 rpm	

- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Advertised power is tested at 1,700 rpm.
- Net 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 257 kW (345 hp) per the SAE reference conditions.
- Meets U.S. EPA Tier 4 Final/EU Stage V, Japan 2014, and Korea Stage V emission standards.
- Diesel exhaust fluid (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.

## Wheel Base

Standard Wheel Base	3979 mm	156.7 in
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## Operating Weights — without Hoist Cylinders

Bare Chassis Weight	19 350 kg	42,659 lb
Payload	27 760 kg	61,200 lb
Front Axle Bare Chassis Weight	13 800 kg	30,424 lb
Front Axle Payload	2984 kg	6,579 lb
Center Bare Chassis Weight	2890 kg	6,371 lb
Center Axle Payload	12 388 kg	27,311 lb
Rear Axle Bare Chassis Weight	2660 kg	5,864 lb
Rear Axle Payload	12 388 kg	27,311 lb

## Brakes

Brake Standards	ISO 3450:2011
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## Transmission

Forward 1	8 km/h	5 mph
Forward 2	15 km/h	9 mph
Forward 3	22 km/h	14 mph
Forward 4	34 km/h	21 mph
Forward 5	47 km/h	29 mph
Forward 6	55 km/h	34 mph
Reverse	9 km/h	6 mph

## Body Hoists

Raise Time	10 seconds
Lower Time	8 seconds

## Service Refill Capacities

Fuel Tank	400 L	105.7 gal
Cooling System	83 L	21.9 gal
Steering/Hoist Hydraulic System	123 L	32.5 gal
Engine Crankcase	43 L	11.4 gal
Transmission	47 L	12.4 gal
Output Transfer Gear (OTG)	25 L	6.6 gal
Final Drives (each)	125 L	33 gal
Diesel Exhaust Fluid (DEF) Tank	34 L	9 gal

## Steering

Steering Standards	ISO 5010:2019	
Steer Angle	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
Lock to Lock	4.75 seconds at 60 rpm	

- Dimensions are for machines equipped with 23.5R25 tires

# 725 Articulated Truck Bare Chassis Specifications

## Cab

ROPS Certification Rating ISO 3471:2008

FOPS Certification Rating ISO 3449:2005 Level II

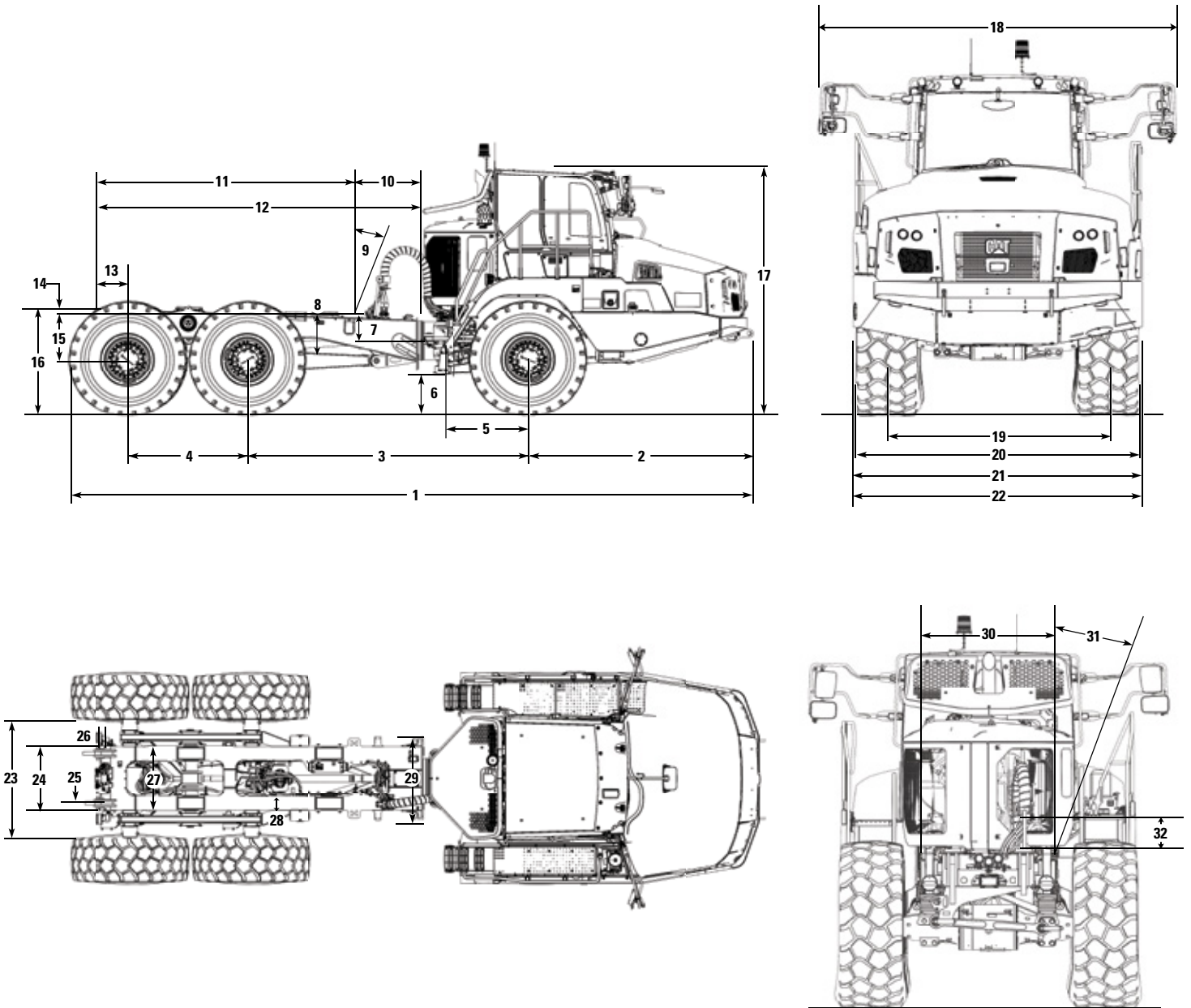
Sound Levels 69±2 dB(A)

- 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.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environments.
- Note: Welding on ROPS or making modifications to the ROPS may void the ROPS certification. Please contact Caterpillar OEM Solutions if the application requires welding on the machine frame.

# 725 Articulated Truck Bare Chassis Specifications

## Dimensions

All dimensions are approximate.



# 725 Articulated Truck Bare Chassis Specifications

## Dimensions

1	Overall Length	9694 mm	31 ft 10 in
2	Front Axle to Bumper	3210 mm	10 ft 6 in
3	Front Axle to Center Axle	3979 mm	13 ft 1 in
4	Center Axle to Rear Axle	1700 mm	5 ft 7 in
5	Articulation Joint to Front Axle	1210 mm	4 ft 0 in
6	Ground Clearance	533 mm	1 ft 9 in
7	Pivot Pin to Frame Bottom	363 mm	1 ft 2 in
8	Frame Height Rear	449 mm	1 ft 6 in
9	Front Body Angle		22 degrees
10	Body Pivot Clearance	847 mm	2 ft 9 in
11	Body Clearance	3682 mm	12 ft 1 in
12	Body Guides	4408 mm	14 ft 6 in
13	Rear Axle to Pivot Pin (horizontal)	422 mm	1 ft 5 in
14	Pivot Pin to Top of Frame Rail	90 mm	0 ft 4 in
15	Rear Axle to Pivot Pin (vertical)	638 mm	2 ft 1 in
16	Top of Frame Rail	1499 mm	4 ft 11 in
17	Top of Cab	3498 mm	11 ft 6 in
18	Mirror Width	3676 mm	12 ft 1 in
19	Track Width	2275 mm	7 ft 6 in
20	Width Over Tire	2877 mm	9 ft 5 in
21	Fender Width	2950 mm	9 ft 8 in
22	Max Unladen Over Tire Bulge	2950 mm	9 ft 8 in
23	Tire Clearance	1629 mm	5 ft 4 in
24	Pivot Casting Width	833 mm	2 ft 9 in
25	Pivot Bearing to Rear Frame	134 mm	0 ft 5 in
26	Pivot Bearing Width	93 mm	0 ft 4 in
27	Frame Width (rear)	896 mm	2 ft 11 in
28	Beam Width	196 mm	0 ft 8 in
29	Frame Width (front)	1096 mm	3 ft 7 in
30	Body Width	858 mm	2 ft 10 in
31	Truck Body Angle		45 degrees
32	Max Tire Clearance	373 mm	1 ft 3 in

These dimensions may vary based on tire size, pressure and load. All dimensions are for reference only and may change for different machine configurations.

# 725 Articulated Truck Bare Chassis Specifications

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>OPERATOR ENVIRONMENT</b>			<b>SAFETY</b>		
Air conditioning	•		Dynamic Rollover Protection	•	
Adjustable air vents	•		Machine Speed Limiting	•	
Combined gear selection and hoist control lever	•		Multi-view camera with object detection		•
Glass windows: front, laminated and tinted; sides and rear, toughened and tinted	•		Reverse alarm	•	
Heater and defroster with four-speed fan	•		Rearview camera	•	
Infrared glass – high ambient cab		•	Rollover protective structure/falling objects protective structure (ROPS/FOPS) cab	•	
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	•		Seat belt, 4-point harness		•
Mirrors: exterior	•		<b>POWERTRAIN</b>		
Mirrors, heated motorized		•	Auto shift six-speed forward and single speed reverse transmission	•	
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	•		Cat C13B engine	•	
Radio, Bluetooth® stereo system		•	CX31 transmission	•	
Seats: operator – fully adjustable, air suspension, retractable lap belt; trainer – padded with retractable lap belt	•		Clean Emissions Module (CEM) and exhaust	•	
Seat, heated/cooled		•	Differentials: standard with automatic clutched inter- and cross-axle differential locks	•	
Operator seat belt, four-point		•	Dual circuit oil immersed, enclosed brakes – all wheels	•	
Secondary display for multi-view camera		•	Retarder: Engine Compression Brake	•	
Secondary steering – electro hydraulic	•		Three axle, six-wheel drive	•	
Storage: cup holder, flask receptacle (under the secondary seat), under seat storage, door pocket, behind seat storage, coat hook	•		<b>ELECTRICAL AND LIGHTING</b>		
Sun visor	•		Batteries (x2) maintenance free	•	
Tilt and telescopic steering wheel	•		Cold weather start attachment (2 additional batteries)		•
Touchscreen display incorporating the rearview camera video feed	•		Daylight running lights	•	
Window blinds		•	Engine block heater		•
Windows (tinted) opening both sides	•		Ether start		•
Windshield wiper and washer, two speed, intermittent (front)	•		Electrical system: 24-volt, 10A 24- to 12-volt converter	•	
Single-speed rear wiper		•	Flashing LED beacon		•
<b>GUARDS</b>			Horn	•	
Crankcase	•		LED Rear Step Lights	•	
Radiator	•		LED Rear Work Lights		•
Rear window	•		Lighting systems: cab interior, two head lamps, two width marker, two reversing, work light/cab access light, two stop/taillights, front and rear direction indicators	•	
			Main disconnect switch	•	
			Remote starting receptacle (cables not included)	•	
			Roof mounted LED work lights		•

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## Standard and Optional Equipment

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

	Standard	Optional
<b>OTHER EQUIPMENT</b>		
Auto lube installation for automatic greasing of bearings		•
Cold weather coolant -51°C (-60°F)		•
Fast fuel fill		•
Fuel additive, anti-waxing		•
Mud flaps: wheel arch and body mounted with transportation tiebacks	•	
S-O-S <sup>SM</sup> sampling valves	•	
Sound suppression (standard in some countries*)	•	
Tires, six 23.5R25	•	
Vandalism protection: lockable caps	•	
Wheel chocks		•

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

## CAT TECHNOLOGY

Cat <sup>®</sup> Payload monitoring system		•
Product Link Cellular PLE643	•	
Cat Detect with Stability Assist	•	
Product Link Dual PLE683		•

**For more information on Cat Truck Bare Chassis, contact OEM Solutions:**

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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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