



CAT[®] 725

ARTICULATED TRUCK BARE CHASSIS

Cat[®] 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 complete solutions from our global Cat dealer network — with support every step of the way.

PROVEN CAT[®] 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.

PROVEN RELIABILITY

The Cat C9.3 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.

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.

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.

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.

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.

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® C9.3 | |
| Rated Engine Speed | 1,700 rpm | |
| Gross Power - SAE J1995 | 255 kW | 342 hp |
| Net Power - SAE J1349 | 249 kW | 334 hp |
| Net Power – ISO 14396 | 252 kW | 338 hp |
| Bore | 115 mm | 4.5 in |
| Stroke | 1149 mm | 45.2 in |
| Displacement | 9.3 L | 567.5 in ³ |

- Net Power advertised is the power available at the flywheel when the engine is equipped with air intake system, exhaust system, and alternator.
- 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 the International Organization for Standardization (ISO) standard 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.

Wheel Base

| | | |
|---------------------|---------|----------|
| Standard Wheel Base | 3979 mm | 156.7 in |
|---------------------|---------|----------|

Operating Weights — without Hoist Cylinders

| | | |
|--------------------------------|-----------|-----------|
| Bare Chassis Weight | 19 801 kg | 43,654 lb |
| Payload | 27 238 kg | 60,051 lb |
| Front Axle Bare Chassis Weight | 14 210 kg | 31,328 lb |
| Front Axle Payload | 2731 kg | 6,019 lb |
| Center Bare Chassis Weight | 2920 kg | 6,437 lb |
| Center Axle Payload | 12 256 kg | 27,020 lb |
| Rear Axle Bare Chassis Weight | 2670 kg | 5,886 lb |
| Rear Axle Payload | 12 256 kg | 27,019 lb |

Brakes

| | |
|-----------------|---------------|
| Brake Standards | ISO 3450:2011 |
|-----------------|---------------|

Transmission

| | | |
|-----------|-----------|----------|
| Forward 1 | 8.1 km/h | 5 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 | 21.1 mph |
| Forward 5 | 49.4 km/h | 30.7 mph |
| Forward 6 | 58.4 km/h | 36.3 mph |
| Reverse | 8.9 km/h | 5.5 mph |

Body Hoists

| | |
|------------|------------|
| Raise Time | 10 seconds |
| Lower Time | 8 seconds |

Service Refill Capacities

| | | |
|---------------------------------|------------|-----------|
| Fuel Tank | 412 L | 91 gal |
| Cooling System | 83 L | 18 gal |
| Steering/Hoist Hydraulic System | 110 L | 24 gal |
| Engine Crankcase | 38 L | 8 gal |
| Transmission | 47 L | 10 gal |
| OTG | 24 L | 5 gal |
| Final Drives/Differential | 125 L | 33 gal |
| Final Drives (each) | 7.5 L | 1.6 gal |
| Axles (each) | 26/28/26 L | 6/8/8 gal |
| Diesel Exhaust Fluid (DEF) Tank | 20 L | 4 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 |

725 Articulated Truck Bare Chassis Specifications

Cab

| | |
|---------------------------|---------------|
| ROPS Certification Rating | ISO 3471:2008 |
|---------------------------|---------------|

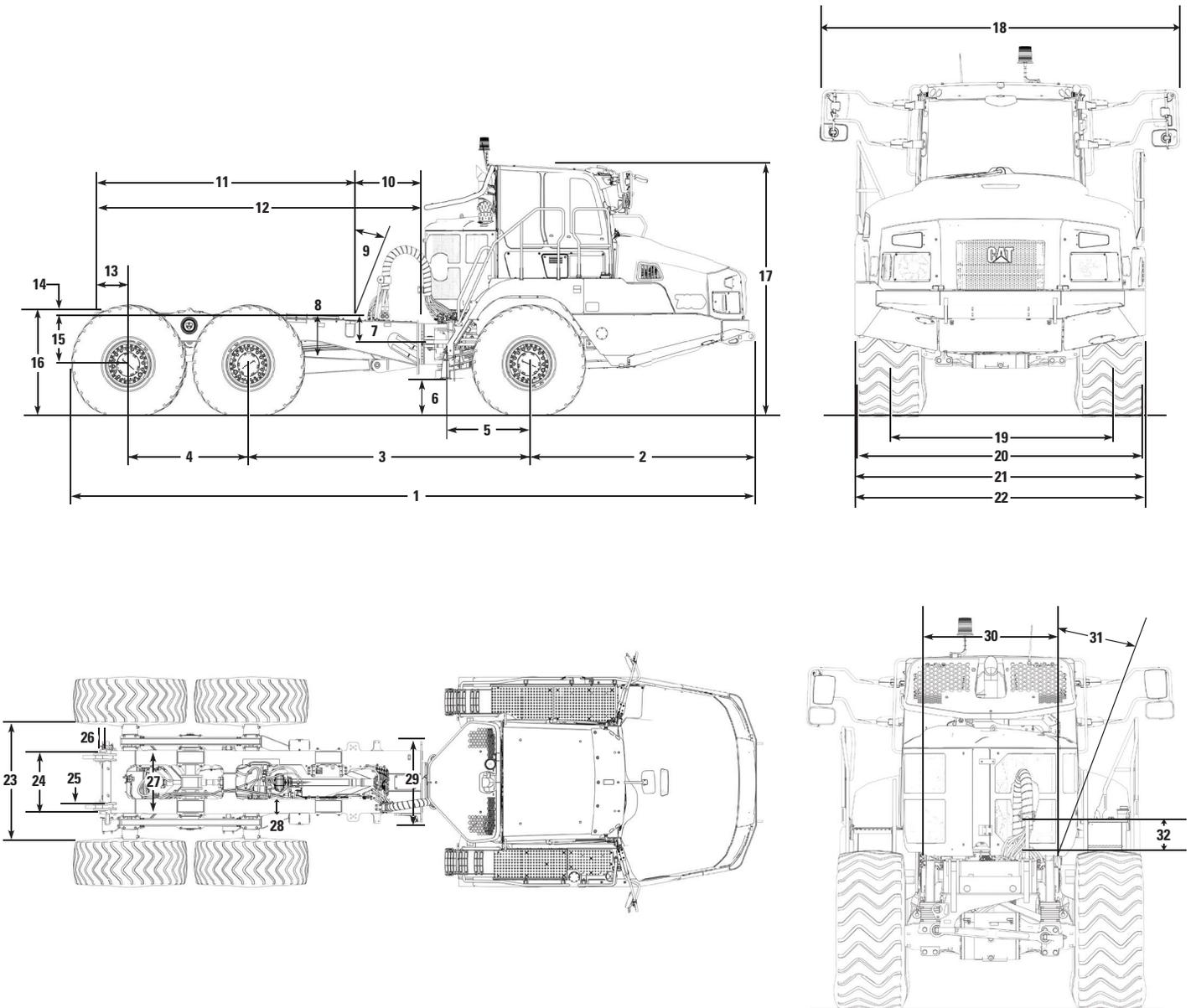
| | |
|---------------------------|------------------------|
| FOPS Certification Rating | ISO 3449:2005 Level II |
|---------------------------|------------------------|

- 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 or 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 | 381.65 in |
| 2 | Front Axle to Bumper | 3210 mm | 126.38 in |
| 3 | Front Axle to Center Axle | 3979 mm | 156.65 in |
| 4 | Center Axle to Rear Axle | 1700 mm | 66.93 in |
| 5 | Articulation Joint to Front Axle | 1210 mm | 47.64 in |
| 6 | Clearance | 539 mm | 21.22 in |
| 7 | Pivot Pin to Frame Bottom | 363 mm | 14.29 in |
| 8 | Frame Height Rear | 449 mm | 17.68 in |
| 9 | Front Body Angle | | 22 degrees |
| 10 | Body Pivot Clearance | 851 mm | 33.50 in |
| 11 | Body Clearance | 3678 mm | 144.80 in |
| 12 | Body Guides | 4408 mm | 173.54 in |
| 13 | Rear Axle to Pivot Pin (horizontal) | 421 mm | 16.57 in |
| 14 | Pivot Pin to Top of Frame Rail | 90 mm | 3.54 in |
| 15 | Rear Axle to Pivot Pin (vertical) | 635 mm | 25.00 in |
| 16 | Top of Frame Rail | 1506 mm | 59.29 in |
| 17 | Top of Cab | 3508 mm | 138.11 in |
| 18 | Mirror Width | 3676 mm | 144.72 in |
| 19 | Track Width | 2275 mm | 89.57 in |
| 20 | Fender Width | 2877 mm | 113.27 in |
| 21 | Over Free Width of Tire | 2950 mm | 116.14 in |
| 22 | Max Unladen Over Tire Bulge | 2950 mm | 116.14 in |
| 23 | Tire Clearance | 1629 mm | 64.13 in |
| 24 | Pivot Casting Width | 833 mm | 32.80 in |
| 25 | Pivot Bearing to Rear Frame | 93 mm | 3.66 in |
| 26 | Pivot Bearing Width | 134 mm | 5.28 in |
| 27 | Frame Width (rear) | 896 mm | 35.28 in |
| 28 | Beam Width | 196 mm | 7.72 in |
| 29 | Frame Width (front) | 1096 mm | 43.15 in |
| 30 | Body Width | 858 mm | 33.78 in |
| 31 | Truck Body Angle | | 45 degrees |
| 32 | Max Tire Clearance | 373 mm | 14.69 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 |
|---|----------|----------|--|----------|----------|
| POWERTRAIN | | | | | |
| Auto shift six-speed forward and single speed reverse transmission | • | | Mirrors, heated rearview motorized | | • |
| CX31R 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 Clean Emission Module (CEM) and exhaust Differentials: standard with automatic clutched | • | | Radio, Bluetooth stereo system | | • |
| Dual circuit oil immersed, enclosed brakes – all wheels | • | | Seats: operator – fully adjustable, air suspension, retractable belt; trainer – padded with retractable lap belt | • | |
| Hydraulic retarder | • | | Seat, heated/cooled | | • |
| Three axle, six-wheel drive | • | | Seat belt, four-point | | • |
| ELECTRICAL AND LIGHTING | | | Secondary steering – electro hydraulic | • | |
| Batteries (two) maintenance free | • | | Storage: cup holder, flask receptacle (under the secondary seat), under seat storage, door pocket, behind seat storage, coat hook | • | |
| Cold weather start attachment | | • | Sun visor | • | |
| Engine block heater | | • | Tilt and telescopic steering wheel | • | |
| Ether start | | • | Touchscreen display incorporating the rearview camera video feed | • | |
| Electrical system: 24-volt, 5A 24- to 12-volt | • | | Window blinds | | • |
| Flashing LED beacon | | • | Windows (tinted) opening both sides | • | |
| Horn | • | | Windshield wiper and washer, two speed, intermittent (front) | • | |
| Lighting System: | | | Single-speed rear wiper | | • |
| • Cab interior | • | | SAFETY | | |
| • Two head lamps | • | | Reverse alarm | • | |
| • Two width marker | • | | Rearview camera | • | |
| • Two reversing | • | | ROPS/FOPS cab | • | |
| • Work light/cab access light | • | | | | |
| • Two stop/tail lights | • | | | | |
| • Front and rear direction indicators | • | | | | |
| Main disconnect switch | • | | | | |
| Remote starting receptacle (cables not included) | • | | | | |
| Roof mounted High Intensity Discharge (HID) work lights | | • | | | |
| OPERATOR ENVIRONMENT | | | | | |
| Air conditioning with R134A refrigerant | • | | | | |
| Adjustable air vents | • | | | | |
| Combined gear selection and hoist control lever | • | | | | |
| Glass windows: front, laminated and tinted; sides and rear, toughened and tinted | • | | | | |
| Heater and defroster with four-speed fan | • | | | | |
| Infrared glass – high ambient 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, Machine Security System (MSS), secondary steering energy source engaged, hour meter, retarder active | • | | | | |
| Mirrors: extensive arrangement for improved | • | | | | |

725 Articulated Truck Bare Chassis Specifications

Standard and Optional Equipment

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

| | Standard | Optional |
|---|----------|----------|
| OTHER EQUIPMENT | | |
| Guards: | | |
| • Axle | • | |
| • Crankcase | • | |
| • Radiator | • | |
| • Rear window | • | |
| Auto lube installation for automatic greasing of bearings | | • |
| Cold weather coolant -51°C (-60°F) | | • |
| Exhaust heated body | | • |
| Fast fuel fill | | • |
| Fuel additive, anti-waxing | | • |
| S-O-S SM sampling valves | • | |
| Sound suppression (standard in Europe) | • | |
| Sound suppression (optional outside Europe) | | • |
| Tires, six 23.5R25 | • | |
| Vandalism protection: lockable caps | • | |
| Wheel chocks | | • |

CAT TECHNOLOGY

| | | |
|---|---|---|
| Machine Security System (MSS) | | • |
| Cat Production Measurement payload monitoring system | | • |
| Cat Detect with Stability Assist | • | |
| PLE641 (cellular) dependent on location and licensing agreement | • | |
| PLE631 (satellite) | | • |

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

oem_solutions@cat.com | www.cat.com/oemsolutions

© 2022 Caterpillar

All rights reserved

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

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEXJ0124 (06-2022)

