CAT® 740

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 C15 engine delivers high performance across a variety of applications.Class-leading transmission technology with Advanced Productivity Electronic Control Strategy (APECS) and Electronic Clutch Pressure Control (ECPC). Engine compression brake improves retarding response and increases retarding power for controlled descent of grades.

COMFORTABLE OPERATOR ENVIRONMENT

Spacious cab with seats positioned for optimal operator and trainer visibility. Simple, intuitive control and display layouts allow operator to focus on safe machine operation, while maintaining productivity. Updated touchscreen display allows easy monitoring and adjustment of systems.

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

Hill assist system reduces potential for rollback by automatically holding brakes on when stopped on a grade. Operator-presence detection system applies parking brake if gear is engaged and operator is not seated. Stability assist software monitors angles of tractor, trailer, and grade independently, increasing operator awareness of stability 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)

740 Articulated Truck Bare Chassis Specifications

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

Engine (LRC)

Engine Model	Cat® C15	
Gross Power (SAE J1995)	335 kW	449 hp
Net Power (SAE J1349)	324 kW	434 hp
Engine Power (ISO 14396)	330 kW	443 hp
Bore	137 mm	5.4 in
Stroke	171.5 mm	6.75 in
Displacement	15.2 L	926 in^3
No Engine Derating Below	3050 m	10,000 ft
Peak Engine Torque Gross (SAE J1995:2014)	2320 N·m	1,711 lbf-ft
Peak Engine Torque Net (SAE J1349:2011)	2264 N·m	1,670 lbf-ft
Peak Engine Torque Speed	1,200 rpm	

Engine (HRC)

Engine Model	Cat® C15	
Gross Power (SAE J1995)	337 kW	452 hp
Net Power (SAE J1349)	327 kW	439 hp
Engine Power (ISO 14396)	333 kW	447 hp
Bore	137 mm	5.4 in
Stroke	171.5 mm	6.75 in
Displacement	15.2 L	926 in^3
No Engine Derating Below	3050 m	10,000 ft
Peak Engine Torque Gross (SAE J1995:2014)	2320 N·m	1,711 lbf-ft
Peak Engine Torque Net (SAE J1349:2011)	2264 N·m	1,670 lbf-ft
Peak Engine Torque Speed	1,200 rpm	

- Advertised power is tested at 1,700 rpm.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- The net power advertised is the power available at the flywheel when the engine is equipped with alternator, air cleaner, aftertreatment, and fan at minimum speed.
- Net power when the fan is at maximum speed is 327 kW (439 hp) per the SAE reference conditions.
- The C15 engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V, and Japan 2014 emission standards.
- Diesel exhaust fluid (DEF) used in Cat selective catalytic reduction (SCR) systems must meet the requirements outlined in ISO 22241-1. Requirements are met by many brands of DEF, including those that carry the AdBlue or API certifications.
- For Lesser Regulated Countries, two engine emissions options are available:
  1. Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
  2. Noncertified configuration that is equivalent to U.S. EPA Tier 2 and EU Stage II.

Wheel Base

Standard Wheel Base	4126 mm	162.4 in

Operating Weights — with Hoist Cylinders (LRC)

Bare Chassis Weight	27 725 kg	61,123 lb
Payload	44 175 kg	97,389 lb
Front Axle Bare Chassis Weight	18 516 kg	40,821 lb
Front Axle Payload	3334 kg	7,350 lb
Center Bare Chassis Weight	4716 kg	10,397 lb
Center Axle Payload	20 421 kg	45,021 lb
Rear Axle Bare Chassis Weight	4493 kg	9,905 lb
Rear Axle Payload	20 420 kg	45,018 lb

Operating Weights — without Hoist Cylinders (LRC)

Bare Chassis Weight	27 283 kg	60,149 lb
Payload	44 617 kg	98,364 lb
Front Axle Bare Chassis Weight	18 348 kg	40,450 lb
Front Axle Payload	3502 kg	7,721 lb
Center Bare Chassis Weight	4579 kg	10,095 lb
Center Axle Payload	20 558 kg	45,323 lb
Rear Axle Bare Chassis Weight	4356 kg	9,603 lb
Rear Axle Payload	20 557 kg	45,320 lb

Operating Weights — with Hoist Cylinders (HRC)

Bare Chassis Weight	28 145 kg	62,049 lb
Payload	43 755 kg	96,463 lb
Front Axle Bare Chassis Weight	19 076 kg	42,055 lb
Front Axle Payload	2774 kg	6,116 lb
Center Bare Chassis Weight	4646 kg	10,243 lb
Center Axle Payload	20 491 kg	45,175 lb
Rear Axle Bare Chassis Weight	4423 kg	9,751 lb
Rear Axle Payload	20 490 kg	45,173 lb

Operating Weights — without Hoist Cylinders (HRC)

Bare Chassis Weight	27 703 kg	61,075 lb
Payload	44 197 kg	97,438 lb
Front Axle Bare Chassis Weight	18 908 kg	41,645 lb
Front Axle Payload	2942 kg	6,486 lb
Center Bare Chassis Weight	4509 kg	9,941 lb
Center Axle Payload	20 628 kg	45,477 lb
Rear Axle Bare Chassis Weight	4286 kg	9,449 lb
Rear Axle Payload	20 627 kg	45,475 lb

- LRC = Lesser Regulated Countries. HRC = Highly Regulated Countries.
- Care must be taken when designing any attachments so that the axle weights are not exceeded.

740 Articulated Truck Bare Chassis Specifications

Brakes

Brake Standards	ISO 3450:2011

Transmission

Forward 1	6.4 km/h	4 mph
Forward 2	8.5 km/h	5.3 mph
Forward 3	11.5 km/h	7.3 mph
Forward 4	14.8 km/h	9.2 mph
Forward 5	19.7 km/h	12.2 mph
Forward 6	24 km/h	14.9 mph
Forward 7	33.1 km/h	20.6 mph
Forward 8	39.8 km/h	24.7 mph
Forward 9	57.5 km/h	35.7 mph
Reverse 1	6.8 km/h	4.2 mph
Reverse 2	15.7 km/h	9.8 mph

Body Hoists

Raise Time	12 seconds
Lower Time	12 seconds

Service Refill Capacities

Fuel Tank	550 L	145.3 gal
Cooling System	90 L	23.7 gal
Engine Crankcase	52 L	13.7 gal
Axles - Each	60 L	15.8 gal
Brake Cooling Tank	67 L	17.7 gal
Transmission - OTG	75 L	19.8 gal
Steering/Hoist Hydraulic System	140 L	36.9 gal
Final Drive - Each	5 L	1.3 gal
Diesel Exhaust Fluid (DEF) Tank (Tier 4)	25 L	6.5 gal

Steering

Steering Standards	ISO 5010:2019	
Steer Angle	45°	
SAE Turning Radius	7698 mm	303 in
Clearance Radius	8395 mm	330 in
Inside Radius	3960 mm	156 in
Aisle Width	5595 mm	220 in

Cab

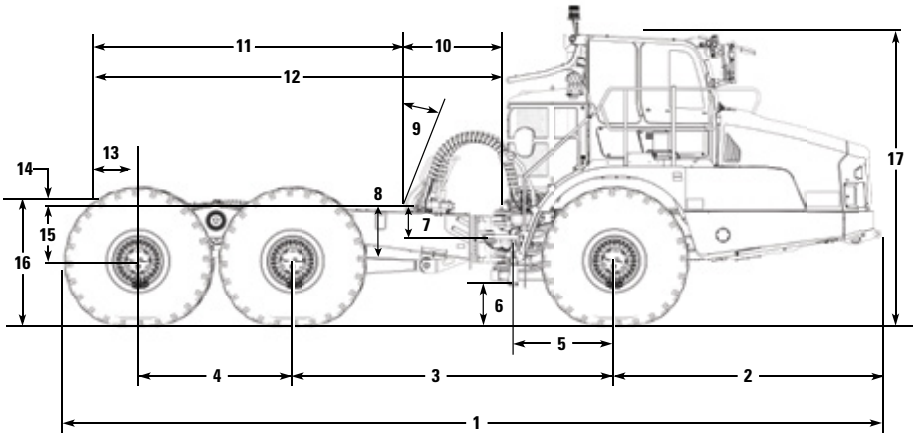
ROPS Certification Rating	ISO 3471:2008
FOPS Certification Rating	ISO 3449:2005 Level II
Sound Levels	70±1 dB(A)

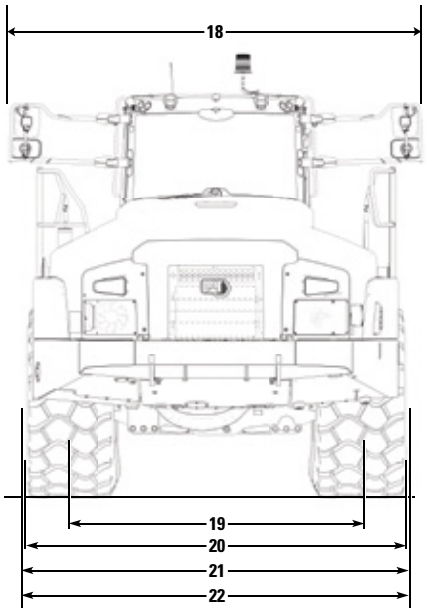
- The declared dynamic operator sound pressure level is 72 dB(A) when ISO 6396:2008 is used to measure the value for an enclosed cab. The measurement was conducted at 70% of the cooling fan's maximum speed. The sound level may vary at different cooling fan speeds. The measurement was conducted with the 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 with 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.

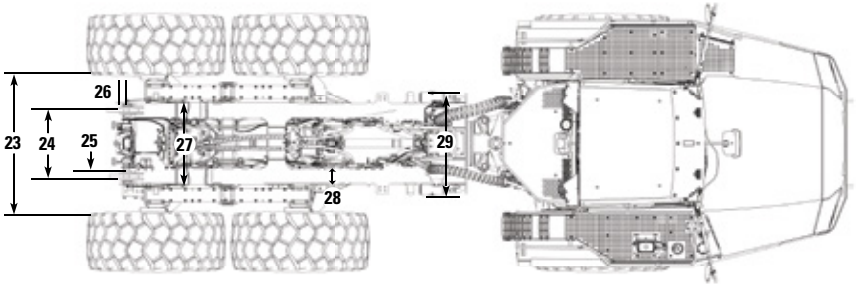
740 Articulated Truck Bare Chassis Specifications

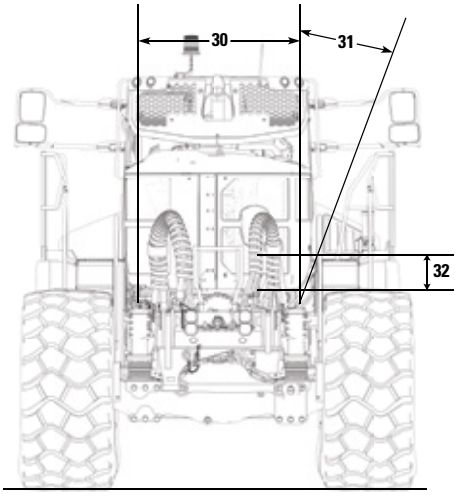
Dimensions

All dimensions are approximate.









740 Articulated Truck Bare Chassis Specifications

Dimensions

1	Overall Length	10 439 mm	410.98 in
2	Front Axle to Bumper	3418 mm	134.57 in
3	Front Axle to Center Axle	4126 mm	162.44 in
4	Center Axle to Rear Axle	1966 mm	77.40 in
5	Articulation Joint to Front Axle	1450 mm	57.09 in
6	Clearance	588 mm	23.15 in
7	Pivot Pin to Frame Bottom	301 mm	11.85 in
8	Frame Height Rear	391 mm	15.39 in
9	Front Body Angle		22 degrees
10	Body Pivot Clearance	1045 mm	41.14 in
11	Body Clearance	3579 mm	140.91 in
12	Body Guides	3479 mm	136.97 in
13	Rear Axle to Pivot Pin (horizontal)	383 mm	15.08 in
14	Pivot Pin to Top of Frame Rail	104 mm	4.09 in
15	Rear Axle to Pivot Pin (vertical)	665 mm	26.18 in
16	Top of Frame Rail	1662 mm	65.43 in
17	Top of Cab	3757 mm	147.91 in
18	Mirror Width	3801 mm	149.65 in
19	Track Width	2687 mm	105.79 in
20	Over Free Width of Tire	3438 mm	135.35 in
21	Fender Width	3370 mm	132.68 in
22	Max Unladen Over Tire Bulge	3500 mm	137.80 in
23	Tire Clearance	1910 mm	75.20 in
24	Pivot Casting Width	1031 mm	40.59 in
25	Pivot Bearing to Rear Frame	108 mm	4.25 in
26	Pivot Bearing Width	134 mm	5.28 in
27	Frame Width (rear)	1110 mm	43.70 in
28	Beam Width	206 mm	8.11 in
29	Frame Width	1096 mm	43.15 in
30	Body Width	3422 mm	134.72 in
31	Truck Body Angle		45 degrees
32	Tire Height to Chassis	41 mm	1.16 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.

740 Articulated Truck Bare Chassis Specifications

Standard and Optional Equipment

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

	Standard	Optional
POWERTRAIN		
Auto shift transmission with nine forward and two reverse speeds	•	
Cat® C15 engine	•	
CX38 transmission	•	
Cat Clean Emissions Module (CEM) and exhaust aftertreatment package	•	
Advanced Automatic Traction Control	•	
Differentials, standard with auto clutched cross-axle differential locks for all axles	•	
Retarder: engine compression brake	•	
Three axle, six-wheel drive	•	
ELECTRICAL AND LIGHTING		
Batteries (two) maintenance free	•	
Cold weather start attachment		•
Engine block heater		•
Ether start		•
Electrical system: 24-volt, 10A 24- to 12-volt	•	
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	•	
Remote starting receptacle (cables not included)	•	
Roof mounted LED work lights		•
OPERATOR ENVIRONMENT		
Air conditioning	•	
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, secondary steering energy source engaged, hour meter, retarder active	•	
Mirrors, exterior	•	
Mirrors, heated motorized		•

	Standard	Optional
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		•
Operator seat belt, four-point		•
Secondary steering – electro hydraulic	•	
Storage: two cup holders, flask receptacle, under seat storage, door pocket, behind seat storage, coat hook	•	
Sun visor	•	
Touchscreen display incorporating the rearview camera video feed	•	
Tilt and telescopic steering wheel	•	
Window blinds		•
Windows (tinted) opening both sides	•	
Windshield wiper and washer, two speed, intermittent (front)	•	
Window wiper and washer, two speed (rear)		•
SAFETY		
Reverse alarm	•	
Rearview camera	•	
Rollover protective structure/falling objects protective structure (ROPS/FOPS) cab	•	

Standard and Optional Equipment

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

	Standard	Optional
OTHER EQUIPMENT		
Guards:		
• Crankcase	•	
• Radiator	•	
• Rear window	•	
Cold weather coolant -51°C (-60°F)		•
Fast fuel fill		•
Fuel additive, anti-waxing		•
Auto lube installation for automatic greasing of bearings		•
Wheel chocks		•
Vandalism protection: lockable caps	•	
Tires, six 29.5 R25	•	
Tires, six 875/65 R29 wide tires		•
S·O·S℠ sampling valves	•	
Sound suppression (standard in some countries*)	•	
* Countries are EU countries plus Iceland, Norway, Lichtenstein, Switzerland, Türkiye and UK.		
CAT TECHNOLOGY		
Machine Security System (MSS)		•
Cat Payload monitoring system		•
Cat Detect with Stability Assist	•	
Product Link™ Cellular PLE643	•	
Product Link Dual PLE683		•

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

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