



CAT[®] 740 GC

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 GC 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® C15 | |
| Rated Engine Speed | 1,700 rpm | |
| Gross Power (SAE J1995:2014) | 337 kW | 452 hp |
| Net Power (SAE J1349:2011) | 327 kW | 439 hp |
| Engine Power (ISO 14396:2002) | 333 kW | 447 hp |
| Bore | 137 mm | 5.4 in |
| Stroke | 171.5 mm | 6.75 in |
| Displacement | 15.2 L | 926 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 327 kW (439 hp) per the SAE reference conditions.
- The C15 engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 4 Final, and Japan 2014 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.

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.

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 |

740 GC Articulated Truck Bare Chassis Specifications

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 |
| DEF Tank | 25 L | 6.5 gal |
| Steering/Hoist Hydraulic System | 140 L | 36.9 gal |
| Final Drive - Each | 5 L | 1.3 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

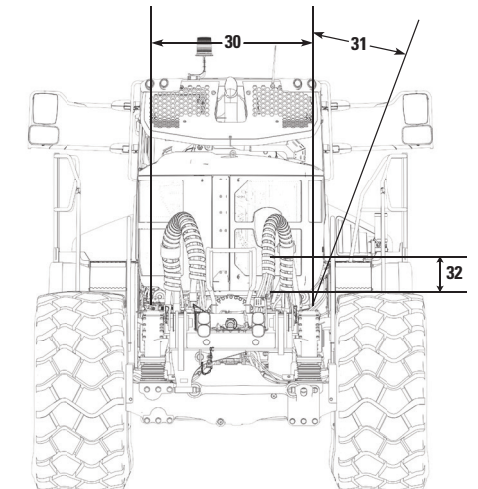
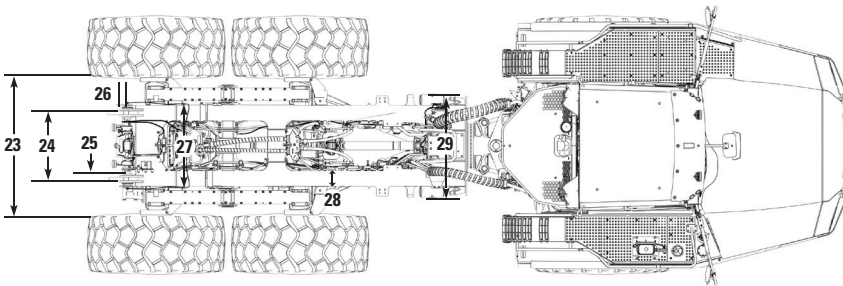
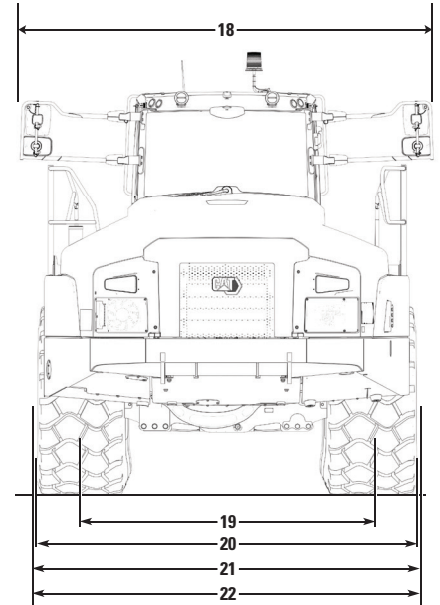
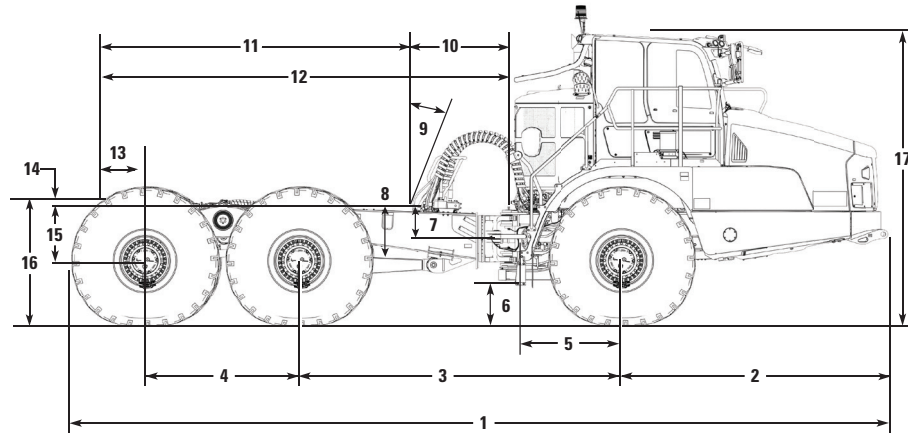
| | |
|---------------------------|------------------------|
| ROPS Certification Rating | ISO 3471:2008 |
| FOPS Certification Rating | ISO 3449:2005 Level II |

- 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 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.

740 GC Articulated Truck Bare Chassis Specifications

Dimensions

All dimensions are approximate.



740 GC 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 GC 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 transmission with nine forward and two reverse speeds | • | | 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 | • | |
| Cat C15 engine | • | | Mirrors: extensive arrangement for improved visibility | • | |
| CX38 transmission | • | | Mirrors, heated motorized | | • |
| Cat Clean Emissions Module (CEM) and exhaust aftertreatment package | • | | 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 | • | |
| Advanced Automatic Traction Control | • | | Radio, Bluetooth® stereo system | | • |
| Differentials, standard with auto clutched cross-axle differential locks for all axles | • | | Seats: operator – fully adjustable, air suspension, retractable lap belt; trainer – padded with retractable lap belt | • | |
| Retarder: engine compression brake | • | | Seat, heated/cooled | | • |
| Dual circuit oil immersed, enclosed brakes – all wheels | • | | Operator seat belt, four-point | | • |
| S-O-S SM sampling valves | • | | Secondary steering – electro hydraulic | • | |
| Three axle, six-wheel drive | • | | Storage: two cup holders, flask receptacle, under seat storage, door pocket, behind seat storage, coat hook | • | |
| ELECTRICAL AND LIGHTING | | | | | |
| Batteries (two) maintenance free | • | | Sun visor | • | |
| Electrical system: 24 volt, 5A 24 to 12 volt converter | • | | Touchscreen display incorporating the rearview camera video feed | • | |
| Lighting System: | | | | | |
| • Headlights, four | • | | Tilt and telescopic steering wheel | • | |
| • Cab interior | • | | Window blinds | | • |
| • Front, side, rear | • | | Windows (tinted) opening both sides | • | |
| • Two reversing | • | | Windshield wiper and washer, two speed, intermittent (front) | • | |
| • Work lights | • | | Window wiper and washer, two speed (rear) | | • |
| • Two stop/tail lights and width marker | • | | SAFETY | | |
| Hood Raise Lower Switch | • | | Reverse alarm | • | |
| Main disconnect switch | • | | Rearview camera | • | |
| Remote starting receptacle (cables not included) | • | | ROPS/FOPS cab | • | |
| Cold weather start attachment | | • | | | |
| Engine block heater | | • | | | |
| Ether start | | • | | | |
| Flashing LED beacon | | • | | | |
| 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 | • | | | | |
| Electro hydraulic hoist control | • | | | | |
| Glass windows: front, laminated and tinted; sides and rear, toughened and tinted | • | | | | |
| Heater and defroster with four-speed fan | • | | | | |
| Infrared glass – high ambient cab | | • | | | |

740 GC 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 | • | |
| 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 | • | |
| S-O-S SM sampling valves | • | |
| Sound suppression (standard in EFTA*) | • | |
| Sound suppression (optional outside EFTA*) | | • |

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

| | | |
|--|---|---|
| CAT TECHNOLOGY | | |
| Machine Security System (MSS) | | • |
| Cat Production Measurement payload monitoring system | | • |
| Cat Detect with Stability Assist | • | |
| Product Link™ Elite: PLE641 (cellular) | • | |
| Product Link Elite: PLE631E (satellite) | | • |

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

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AEXJ0127-01 (07-2023)

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