

CAT® 772

OFF-HIGHWAY TRUCK BARE CHASSIS

Caterpillar offers off-highway truck bare chassis designed for specialty machines in a variety of applications — including water trucks, tow tractors, and fuel / lube trucks. When configured as a water truck, the tank capacity is 11,000 gallons (41 500 liters).

These partial machine configurations allow construction, 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.

APPLICATION-SPECIFIC CAB & ROPS CERTIFICATION

Cat Off-Highway Truck Bare Chassis ROPS is certified to ISO 3471 Tractor criteria, to provide a higher level of protection for towing applications.

OPERATOR EXPERIENCE

A truck is only as productive as its operator — so we've updated the 772 with some key features to help old and new operators be comfortable and confident while operating the truck. Convenient automatic temperature control and powered left side window. Low-effort access getting in and out of the cab with ample stand up room. Cat Comfort Seat with air suspension and excellent adjustability.

FUEL SAVINGS

Fuel savings are achieved by reducing power between 0.15 to 15% during all phases of operation. Part throttle shifting has the benefit of saving fuel – it no longer needs to apply fuel towards overcoming lost momentum between shifts.

SAFETY BUILT IN

As we design a truck, we take the safety of the operator and personnel working on the ground very seriously. Ground level and platform accessible daily check points. Excellent visibility. Solid, stable walking/working platforms with good traction, material shedding, handrails. And the new Traction Control System, returns the truck to solid footing sooner.

SIMPLE SERVICE

This truck is designed to provide operators and technicians with easy access to common service points like engine lockout, machine system lockout, fluid level sight gauges, grease fittings, and access to the engine for regularly scheduled maintenance.

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)

772 OFF-HIGHWAY TRUCK BARE CHASSIS SPECIFICATIONS

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

Engine – U.S. EPA Tier 4 Final/EU Stage V

Engine Model	Cat® C18	
Rated Engine Speed	1,700 rpm	
Gross Power – SAE J1995:2014	451 kW	605 hp
Net Power – SAE J1349:2011	410 kW	550 hp
Number of Cylinders	6	
Bore	145 mm	5.7 in
Stroke	183 mm	7.2 in
Displacement	18.1 L	1,105 in^3

Engine – U.S. EPA Tier 3/EU Stage IIIA or U.S. EPA Tier 2/EU Stage II

Engine Model	Cat® C18	
Rated Engine Speed	1,800 rpm	
Gross Power – SAE J1995:2014	446 kW	598 hp
Net Power – SAE J1349:2011	415 kW	557 hp
Number of Cylinders	6	
Bore	145 mm	5.7 in
Stroke	183 mm	7.2 in
Displacement	18.1 L	1,105 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.
- Ratings based on SAE J1995 standard air conditions of 25° C (77° F)and 100 kPa (29.61 Hg) barometer. Power based on fuel having API gravity of 35 at 16° C (60° F) and an LHV of 42 780 kJ/kg (18,390 BTU/lb) when engine used at 30° C (86° F).
- No engine derating required up to 3000 m (9,843 ft).

Operating Weights – all configurations

Target Gross Machine Weight	82 100 kg	181,000 lb

Operating Weights – with Hoist Cylinders (LRC)

Bare Chassis Weight	26 863 kg	59,223 lb
Payload	55 237 kg	121,776 lb
Front Axle Bare Chassis Weight	16 118 kg	35,534 lb
Front Axle Payload	11 823 kg	26,066 lb
Rear Axle Bare Chassis Weight	10 745 kg	23,689 lb
Rear Axle Payload	43 441 kg	95,771 lb

Operating Weights – without Hoist Cylinders (LRC)

Bare Chassis Weight	26 496 kg	58,414 lb
Payload	55 604 kg	122,585 lb
Front Axle Bare Chassis Weight	15 898 kg	35,048 lb
Front Axle Payload	12 017 kg	26,492 lb
Rear Axle Bare Chassis Weight	10 598 kg	23,365 lb
Rear Axle Payload	43 588 kg	96,095 lb

Operating Weights – with Hoist Cylinders (HRC)

Bare Chassis Weight	27 386 kg	60,376 lb
Payload	54 714 kg	120,623 lb
Front Axle Bare Chassis Weight	16 432 kg	36,225 lb
Front Axle Payload	11 483 kg	25,315 lb
Rear Axle Bare Chassis Weight	10 954 kg	24,150 lb
Rear Axle Payload	43 232 kg	95,310 lb

Operating Weights – without Hoist Cylinders (HRC)

Bare Chassis Weight	27 019 kg	59,567 lb
Payload	55 081 kg	121,432 lb
Front Axle Bare Chassis Weight	16 211 kg	35,740 lb
Front Axle Payload	11 703 kg	25,800 lb
Rear Axle Bare Chassis Weight	10 808 kg	23,827 lb
Rear Axle Payload	43 378 kg	95,633 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.

Tires

21.00R33 (E4)

- Productive capabilities of the 772 truck are such that, under certain job conditions, TKPH (TMPH) capabilities of standard or optional tires could be exceeded and, therefore, limit production.
- Caterpillar recommends the customer evaluates all job conditions and consults the tire manufacturer for proper tire selection.

Weight Distributions – Approximate

Front Axle – Empty	51.4%
Front Axle – Loaded	34.2%
Rear Axle – Empty	48.6%
Rear Axle – Loaded	65.8%

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

Final Drives

Differential Ratio	2.74:1
Planetary Ratio	4.80:1
Total Reduction Ratio	13.14:1

Brakes

Brake Surface – Front	1395 cm^2	216 in^2
Brake Surface – Rear	50 281 cm^2	7,794 in^2
Brake Standards	ISO 3450:2011	

Transmission – U.S. EPA Tier 4 Final

Forward 1	12.8 km/h	8.0 mph
Forward 2	17.5 km/h	10.9 mph
Forward 3	23.7 km/h	14.8 mph
Forward 4	31.9 km/h	19.8 mph
Forward 5	43.3 km/h	26.9 mph
Forward 6	58.3 km/h	36.3 mph
Forward 7	79.1 km/h	49.2 mph
Reverse	16.8 km/h	10.4 mph

- Maximum travel speeds with standard 21.00R33 (E4) tires.

Transmission – U.S. EPA Tier 3 and 2 Equivalent

Forward 1	12.8 km/h	8 mph
Forward 2	17.4 km/h	10.9 mph
Forward 3	23.7 km/h	14.7 mph
Forward 4	31.8 km/h	19.8 mph
Forward 5	43.1 km/h	26.9 mph
Forward 6	58.2 km/h	36.3 mph
Forward 7	78.9 km/h	49.2 mph
Forward 7 (Vietnam)*	59.0 km/h	36.6 mph
Reverse	16.9 km/h	10.4 mph

- Maximum travel speeds with standard 21.00R33 (E4) tires.

* Maximum travel speed limited to 59 km/h for Vietnam arrangement.

Body Hoists

Pump Flow – High Idle (Tier 4)	425 L/min	112 gal/min
Pump Flow – High Idle (Tier 3/2)	413 L/min	109 gal/min
Relief Valve Setting – Raise	18 950 kPa	2,750 psi
Relief Valve Setting – Lower	3450 kPa	500 psi
Body Raise Time – High Idle	8 seconds	
Body Lower Time – Float	10 seconds	

Service Refill Capacities

Fuel Tank	530 L	140 gal
Diesel Exhaust Fluid (DEF) Tanks (Tier 4/Stage IV only)	21 L	6 gal
Cooling System	125 L	33 gal
Crankcase	64 L	17 gal
Differentials and Final Drives	180 L	47 gal
Steering Tank	55 L	14.5 gal
Steering System (includes tank)	87 L	23 gal
Brake/Hoist Hydraulic Tank	145 L	38 gal
Brake/Hoist System	227 L	60 gal
Torque Converter/Transmission System	64 L	17 gal

Steering

Steering Standards	ISO 5010:2019	
Steer Angle	40.5°	
Turning Diameter – Front	17.6 m	57.7 ft
Turning Circle Clearance Diameter	20.3 m	66.6 ft

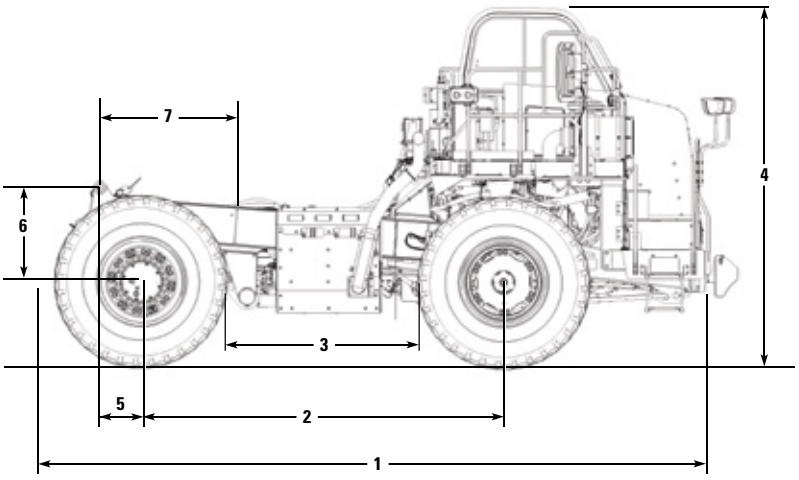
Cab

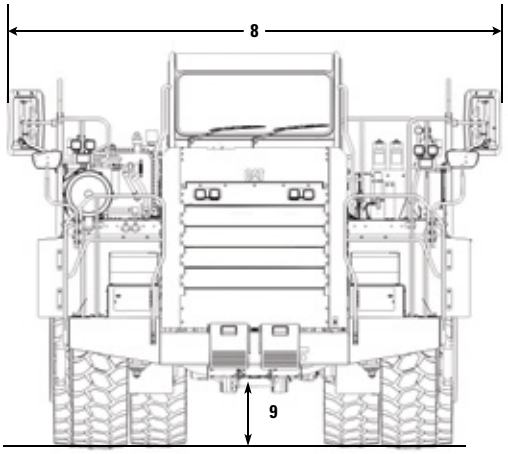
Operator Sound Level (ISO 6396:2008) – Tier 4 Final/Stage V		73 dB(A)
Operator Sound Level (ISO 6396:2008) – Tier 3 and Tier 2 Equivalent		75.5 dB(A)
ROPS Certification Rating		Tractor ROPS Rating
772 WTR (Tractor)	35 122 kg	77,430 lb

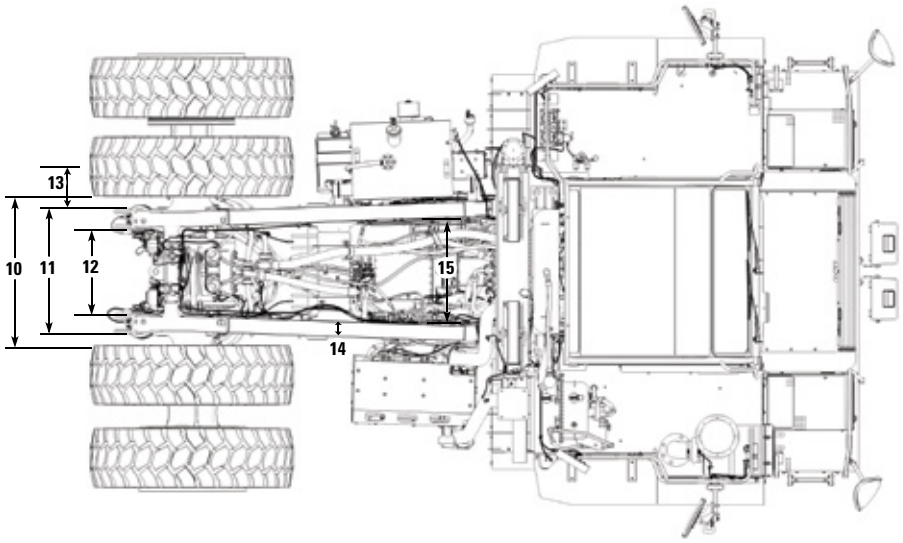
- The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for the standard machine configuration. The measurement was conducted at 80% of the maximum engine cooling fan speed.
- Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.
- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. Refer to the machine labeling for identification of the gas.
- If equipped with R134a (Global Warming Potential = 1430), the system contains 1.9 kg (4.2 lb) of refrigerant which has a CO_2 equivalent of 2.71 metric tonnes (2.99 tons).
- If equipped with R1234yf (Global Warming Potential = 0.501), the system contains 1.85 kg (4.1 lb) of refrigerant which has a CO_2 equivalent of 0.001 metric tonnes (0.001 tons).
- Rollover Protective Structure (ROPS) for cab offered by Caterpillar meets ISO 3471:2008 for operator and ISO 13459:2012 for trainer ROPS criteria.
- Falling Objects Protective Structure (FOPS) meets ISO 3449:2005 Level II for operator and ISO 13459:2012 Level II for trainer FOPS criteria.
- 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.

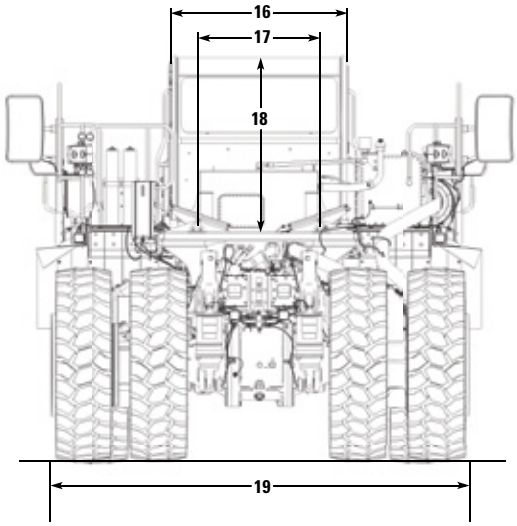
772 OFF-HIGHWAY TRUCK BARE CHASSIS DIMENSIONS

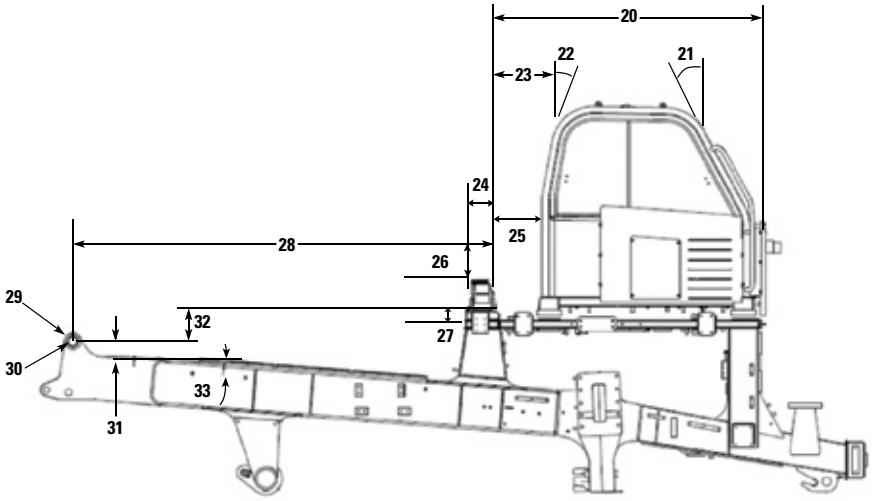
All dimensions are approximate.











772 OFF-HIGHWAY TRUCK BARE CHASSIS DIMENSIONS

All dimensions are approximate.

Dimensions				
1	Overall Length ** (does not include Wheel Chocks)	8234 mm	27 ft	0 in
2	Wheel Base	3960 mm	13 ft	0 in
3	Distance Between Tires	2091 mm	6 ft	10 in
4	Height to Top of ROPS **	3907 mm	12 ft	10 in
5	Rear Axle to Body Pivot	454 mm	1 ft	6 in
6	Vertical Distance Between Body Pivot and Rear Axle	1023 mm	3 ft	4 in
7	Distance Between Body Pivot and Hoist Cylinders - Horizontal	1224 mm	4 ft	0 in
8	Overall Width	4780 mm	15 ft	8 in
9	Engine Guard Clearance **	572 mm	1 ft	11 in
10	Distance Between Hoist Cylinders	1144 mm	3 ft	9 in
11	Distance Between Body Pivots - Outer	784 mm	2 ft	7 in
12	Distance Between Body Pivots - Inner	551 mm	1 ft	10 in
13	Body Pin Bearing Width	180 mm	0 ft	7 in
14	Frame Rail Width	139 mm	0 ft	6 in
15	Distance Between Frame Rails	1006 mm	3 ft	4 in
16	Cab Width	1691 mm	5 ft	7 in
17	Distance Between Rocker Pads	1200 mm	3 ft	11 in
18	Height of the Cab from Main Beam	1695 mm	5 ft	7 in
19	Overall Tire Width	3927 mm	12 ft	11 in
20	Distance Between Main Beam and Cab Front	2208 mm	7 ft	3 in
21	Cab Front Angle		28.5 degrees	
22	Cab Rear Angle		10 degrees	
23	Distance Between Main Beam and Cab Roof	437 mm	1 ft	5 in
24	Main Beam Width	283 mm	0 ft	11 in
25	Distance Between Main Beam and Cab Rear	314 mm	1 ft	0 in
26	Rocker Pad Height	268 mm	0 ft	11 in
27	Main Beam Height	80 mm	0 ft	3 in
28	Distance Between Body Pivot and Main Beam	3273 mm	10 ft	9 in
29	Body Pivot Outer Radius	133.7 mm	0 ft	5 in
30	Body Pivot Pin Diameter	75.6 mm	0 ft	3 in
31	Distance Between Body Pivot and Frame	112 mm	0 ft	4 in
32	Distance Between Main Beam and Body Pivot Pin	249 mm	0 ft	10 in
33	Frame Slope Angle		4.1 degrees	

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

Standard and Optional Equipment

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

POWERTRAIN	Standard	Optional
Air cleaner with precleaner (1)	●	
Air-to-Air Aftercooler (ATAAC)	●	
Automatic cold mode idle control	●	
Auto neutral idle	●	
Auto stall	●	
Braking system, hydraulic actuated: Automatic Retarder Control (ARC) (utilizes rear oil-cooled, multiple disc brakes), brake release motor (towing), caliper-disc (front), extended life brakes, oil-cooled – multiple disc (rear), parking, secondary, service	●	
Brake wear indicator (Tier 4/Stage V)	●	
Brake wear indicator (Tier 3 and Tier 2)		○
Cat® C15 Diesel Engine	●	
Cat engine brake		○
Electric start	●	
Engine idle shutdown	●	
Second gear start	●	
Transmission – 7-speed automatic powershift with electronic clutch pressure control with advanced productivity electronic control strategy (APECS), body up-shift inhibitor, controlled throttle shifting, directional shift management, downshift inhibitor, neutral start switch, neutral coast inhibitor, reverse shift inhibitor, reverse neutralizer during dumping, programmable top gear selection	●	
Turbocharger	●	

ELECTRICAL	Standard	Optional
Alarm backup	●	
Batteries, maintenance-free, 12V (2), 190 amp-hour	●	
Lighting system: backup light, directional signals/hazard warning (front and rear LED), LED headlights with dimmer, operator access courtesy lights	●	

OPERATOR ENVIRONMENT	Standard	Optional
Advisor display, bronze	●	
Air conditioning	●	
Coat hook	●	
Cup holders (4)	●	
Diagnostic connection port, 24V	●	
Entertainment radio ready: 5 amp converter, speakers, antenna, wiring harness	●	
Fluid and fuel system monitoring (Tier 4 only)	●	
Fluid and fuel system monitoring (Tier 3 and Tier 2)		○
Gauges/indicators: service indicator – electronic, brake oil temperature gauge, coolant temperature gauge, hour meter, tachometer, engine overspeed indicator, fuel level, speedometer with odometer, transmission gear indicator	●	
Heater/defroster (11 070 kCal/43,930 BTU)	●	
Hoist shift lever with integrated fingerprint control	●	
Horn, electric	●	
Lights: courtesy, dome	●	
Lights, Halogen		○
Mirrors	●	
Mirrors, heated		○
Power port, 12V	●	
Visibility package (WAVS)		○
Rollover protective structure (ROPS) cab and falling object protective structure (FOPS) cab	●	
Seat, full air suspension, 4-point seat belt with shoulder harness	●	
Seat belt reminder system: Seat belt alert	●	
Seat belt inhibit		○
Trainer seat, lap belt, with seat belt reminder	●	
Steering wheel – padded, tilt, and telescopic	●	
Storage compartment	●	
Sun visor, tinted glass	●	
Throttle lock	●	
Windshield wiper (intermittent) and washer	●	

Standard and Optional Equipment

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

OTHER EQUIPMENT	Standard	Optional
Adaptor fast fill – fuel		○
Body down indicator	●	
Cab air filter	●	
Clustered lube	●	
Coolant heater		○
Ether aid		○
Extended life coolant to -35° C (-30° F)	●	
Fan, hydraulic demand	●	
Four (4) batteries (Tier 3 and Tier 2 only)		○
Fuel heater		○
Fuel tank (530 L/140 gal)	●	
Guard, driveline	●	
Guard, engine compartment	●	
Guard, engine crankcase	●	
Guard, mud	●	
Guard, overhead		○
Ground-level battery disconnect	●	
Ground-level engine shutdown	●	
Reservoirs (separate): brake/converter/hoist, steering, transmission/torque converter	●	
Rims 15 x 33	●	
Service platform, left and right-side	●	
Standard lube/auto lube		○
Supplemental steering (automatic)	●	
Suspension, front and rear	●	
Spare rims		○
Tie down eyes	●	
Tire Pressure Management System (TPMS)		○
Tow hooks, front/tow pin, rear	●	
Vandalism protection locks	●	
Wheel chocks		○

CAT TECHNOLOGY PRODUCTS	Standard	Optional
Cat Detect Surround Vision	●	
Product Link™	●	
Traction Control System (TCS)		○
Advanced health	●	

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

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

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

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