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)

CAT®

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

Engine Model	Cat® C18	
Rated Engine Speed	1,700 rpm	
Gross Power - SAE J1995	451 kW	605 hp
Net Power - SAE J1349	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

- 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) altitude.
- Meets U.S. Environmental Protection Agency Tier 4 Final and European Union Stage IV emission standards.

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 772G 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 %

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

Forward 1	12.9 km/h	8 mph
Forward 2	17.5 km/h	10.9 mph
Forward 3	23.8 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	36.2 mph
Forward 7	79.2 km/h	49.2 mph
Reverse	16.7 km/h	10.4 mph

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

772 Off-highway Truck Bare Chassis Specifications

Body Hoists

Pump Flow – High Idle	448 L/min	118 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	7.5 seconds	
Body Lower Time – Float	10 seconds	
Body Power Down – High Idle	10 seconds	

Service Refill Capacities

Fuel Tank	530 L	140 gal
Diesel Exhaust Fluid (DEF) Tank	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 5010:2007	
Steer Angle	31°	
Turning Diameter – Front	17.6 m	57.7 ft
Turning Circle Clearance Diameter	20.3 m	66.6 ft

Cab

ROPS Certification Rating		Tractor ROPS Rating
772G WTR (Tractor)	35 122 kg	77,430 lb

- ROPS (Roll Over Protective Structure) for cab offered by Caterpillar meets ISO 3471:1994 ROPS criteria.
- Falling Objects Protective Structure (FOPS) meets ISO 3449:2005 Level II 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.

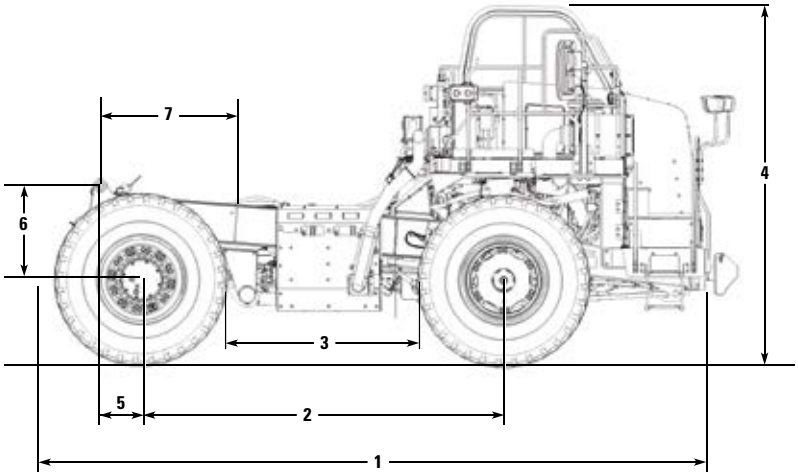
Suspension

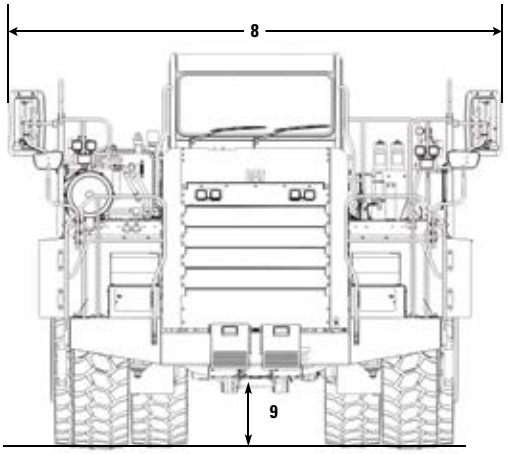
Empty Loaded Cylinder Stroke Front	234 mm	9.2 in
Empty Loaded Cylinder Stroke Rear	149 mm	5.9 in
Rear Axle Oscillation	8.9°	

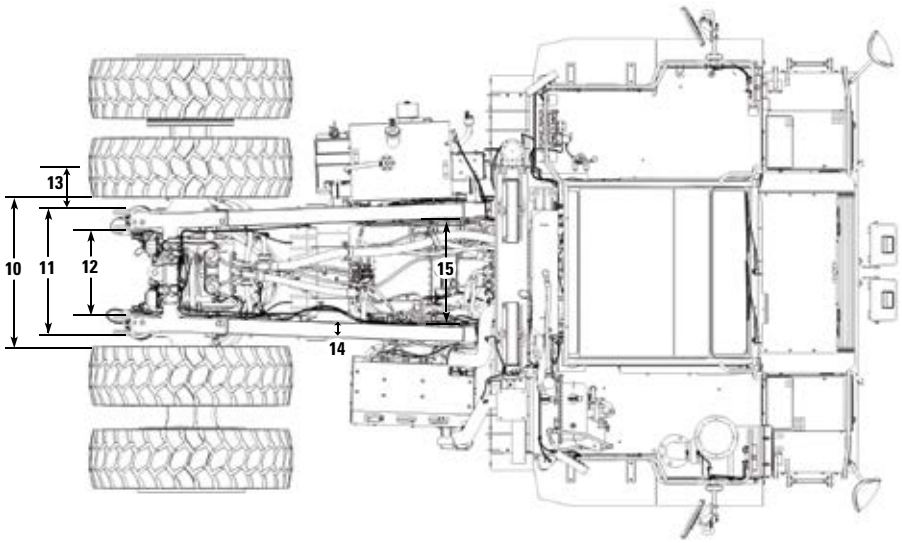
772 Off-highway Truck Bare Chassis Specifications

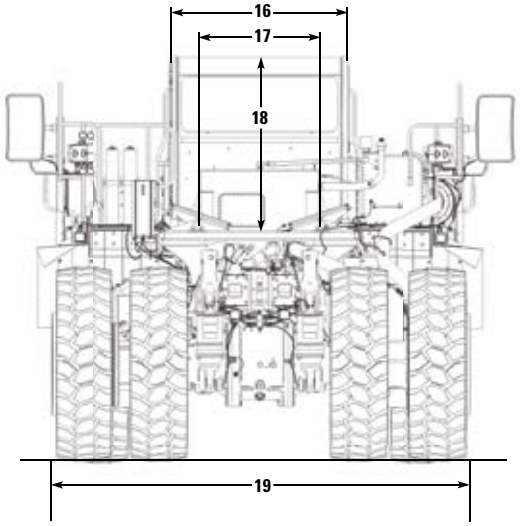
Dimensions

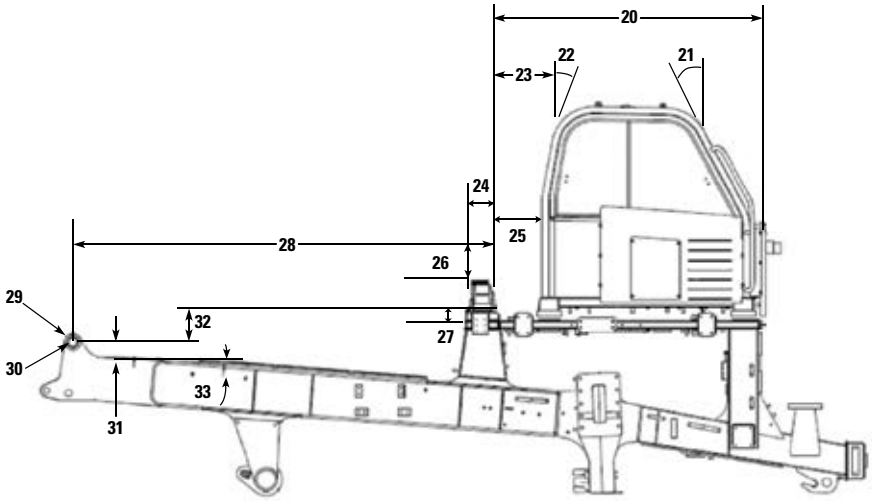
All dimensions are approximate.











772 Off-highway Truck Bare Chassis Specifications

Dimensions

1	Overall Length ** (does not include Wheel Chocks)	7449	mm	293.27	in
2	Wheel Base	3952	mm	155.59	in
3	Rear Axle to Body Pivot	2091	mm	82.32	in
4	Height to Top of ROPS **	3907	mm	154.8	in
5	Rear Axle to Body Pivot	454	mm	17.87	in
6	Vertical Distance Between Body Pivot and Rear Axle	1023	mm	40.28	in
7	Distance between Body Pivot and Hoist Cylinders - Horizontal	1224	mm	48.19	in
8	Overall Width	4971	mm	195.71	in
9	Engine Guard Clearance **	542	mm	21.34	in
10	Distance Between Hoist Cylinders	1144	mm	45.04	in
11	Distance Between Body Pivots - Outer	784	mm	30.87	in
12	Distance Between Body Pivots - Inner	551	mm	21.69	in
13	Body Pivot Bearing Width	180	mm	7.09	in
14	Frame Rail Width	139	mm	5.47	in
15	Distance Between Frame Rails	1006	mm	39.61	in
16	Cab Width	1691	mm	66.57	in
17	Distance between Rocker Pads	1200	mm	47.24	in
18	Height of the Cab from Main Beam	1695	mm	66.73	in
19	Overall Tire Width	3693	mm	145.39	in
20	Distance Between Main Beam and Cab Front	2208	mm	86.93	in
21	Cab Front Angle			28.5	degrees
22	Cab Rear Angle			10	degrees
23	Distance between Main Beam and Cab Roof	437	mm	17.20	in
24	Main Beam Width	283	mm	11.14	in
25	Distance Between Main Beam and Cab REAR	314	mm	12.36	in
26	Rocker Pad Height	268	mm	10.55	in
27	Main Beam Height	80	mm	3.15	in
28	Distance Between Body Pivot and Main Beam	3273	mm	128.86	in
29	Body Pivot Outer Radius	133.7	mm	5.26	in
30	Body Pivot Pin Diameter	75.6	mm	2.98	in
31	Distance Between Body Pivot and Frame	112	mm	4.41	in
32	Distance between Main Beam and Body Pivot Pin	249	mm	9.80	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.

772 Off-highway Truck Bare Chassis Specifications

Standard and Optional Equipment

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

	Standard	Optional
POWERTRAIN		
Air-To-Air Aftercooler (ATAAC)	•	
Air cleaner with precleaner (1)	•	
Automatic cold mode idle control	•	
Electric start	•	
Engine idle shutdown	•	
Ether starting aided	•	
Exhaust muffler	•	
Global off-highway aluminum radiator	•	
Braking system:		
• Manual retarder (utilizes rear oil-cooled, multiple disc brakes)	•	
• Brake release motor (towing)	•	
• Dry disc brakes (front)	•	
• Front brake disconnect switch (front)	•	
• Oil-cooled, multiple disc (rear)	•	
• Brake wear indicator (rear)	•	
• Parking	•	
• Secondary	•	
• Service	•	
Transmission:		
• 7 speed automatic powershift with electronic clutch pressure control	•	
• Advanced productivity electronic control strategy (APECS)	•	
• Automatic neutral idle	•	
• Autostall	•	
• Second gear start	•	

	Standard	Optional
ELECTRICAL		
Alarm backup	•	
Alternator, 120 amp	•	
Batteries, maintenance-free, 12V (2), 1400 CCA combined	•	
Electrical system, 25 AMP, 24V to 12V converter	•	
Lighting System:		
• Backup light (halogen)	•	
• Directional signals/hazard warning (front and rear LED)	•	
• Engine compartment light	•	
• Headlights, halogen with dimmer	•	
• Operator accesscourtesy lights	•	
• Stop/tail lights, LED	•	
• Side profile lights	•	
Battery jump start	•	
Breakers with spare fuses	•	
Lock out switch		
Ports, ET and VIMS	•	
Service lockout switch (power without engine start)	•	

	Standard	Optional
OPERATOR ENVIRONMENT		
Air conditioning/heat	•	
Ashtray and cigarette lighter	•	
Automatic tempature control	•	
Coat hook	•	
Cup holders (4)	•	
Diagnostic connection port, 24V	•	
Entertainment radio ready:		
• 5 amp converter	•	
• Speakers	•	
• Antenna	•	
• Wiring harness	•	
Gauges and indicators panel:		
• Air cleaner service indicator – electronic	•	
• Brake oil temperature gauge	•	
• Coolant temperature gauge	•	
• Hour meter	•	
• Tachometer	•	
• Engine overspeed indicator	•	
• Fuel level	•	
• Speedometer with odometer	•	
• Transmission gear indicator	•	
Hoist lever	•	
Horn, electric	•	
Light – dome	•	
Light – courtesy	•	
Messenger, display unit	•	
Mirrors (heated)	•	
Power port, 12V	•	
ROPS cab, insulated/sound suppressed	•	
Cat COSS 2 deluxe seat:		
• full air suspension	•	
• heated/ventilated	•	
• retractable 4 point seat belt with shoulder harness	•	
Steering wheel, padded, tilt and telescopic	•	
Storage compartment	•	
Sun visor, tinted glass	•	
Throttle lock	•	
Window, sliding, right side(Emergency exit)	•	
Window, powered, left side	•	
Windshield wiper (intermittent) and washer	•	

Standard and Optional Equipment

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

	Standard	Optional
OTHER STANDARD EQUIPMENT		
Guards:		
• Driveline	•	
• Engine crankcase	•	
• Fan	•	
Body down indicator	•	
Center mounted rims	•	
Fuel tank, 530L (140 gallons)	•	
Ground level battery disconnect	•	
Ground level engine shutdown	•	
Ground level grease fittings	•	
Operation maintenance manual (OMM)	•	
Rims 13 x 33	•	
Secondary steering, electric	•	
Tie down eyes	•	
Tow hooks, front/tow pin, rear	•	
Vandalism protection locks	•	
CAT TECHNOLOGY PRODUCTS		
Product Link Ready	•	
Economy modes, standard and adaptive	•	
Payload System (TPMS)	•	
Vital Info Management System (VIMS)	•	
Tire monitoring system (TKPH/TMPH)	•	
Product Link		•
Traction Control System		•
FLUIDS		
Extended life coolant, -34° C (-30° F)	•	
Grouped ground-level filters	•	

	Standard	Optional
OPTIONAL EQUIPMENT		
Auto Lube		•
Payload indicator (lights only)		•
Rear vision camera (WAVS)		•
Spare rims		•
Wheel chocks		•

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

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

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