

CAT® 773 (05)

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 13,000 gallons (49 210 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

Completely redesigned cab interior for a whole new standard in visibility, comfort, and productivity.

- Enjoy a more automotive-like, all-in-one integrated parking brake.
- Intuitive, ergonomic controls and multifunction display keep operators focused on their work.
- Designed for precise steering, Cat integrated steering and suspension system provides excellent maneuverability, minimal tire wear, and superior ride control.

FUEL SAVINGS

Standard economy mode provides maximum fuel savings with minimal productivity impact. Engine Idle Shutdown automatically initiates when the truck is in park and idles for a preset amount of time — conserving fuel.

INCREASED PERFORMANCE AND RELIABILITY

Build operator confidence with Automatic Retarder Control (ARC), providing excellent control while reducing operator effort for a smoother ride. Enjoy better productivity with a more responsive Traction Control System, improves control in poor underfoot conditions.

LOWER MAINTENANCE COSTS

Safe, convenient maintenance with a machine platform and ground level battery disconnect. The Advisor system provides quick, onboard diagnostic data and lowers operating costs.

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)

773 (05) 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® 3412E	
Rated Engine Speed	2,000 rpm	
Gross Power - SAE J1995	567 kW	760 hp
Net Power - SAE J1349	537 kW	720 hp
Net Torque	3436 N·m	2,534 lb-ft
Bore	137 mm	5.4 in
Stroke	152 mm	6 in
Displacement	27 L	1,648 in^3

- These engine ratings apply at 2,000 rpm when tested under the specified condition for the specified standard in effect at the time of manufacture.
- Power rating conditions based on standard conditions of 25° C (77° F) and 99 kPa (29.32 in Hg) dry barometer, using 35° C (95° F) API gravity fuel having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 30° C (86° F) [reference a fuel density of 838.9 g/L (7.001 lb/gal)].
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- No derating required up to 3048 m (10,000 ft) altitude.
- Meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 2.

Operating Weights

Target Gross Machine Weight	99 300 kg	218,920 lb

Operating Weights – with Hoist Cylinders

Bare Chassis Weight	32 415 kg	71,463 lb
Payload	66 885 kg	147,456 lb
Front Axle Bare Chassis Weight	18 282 kg	40,305 lb
Front Axle Payload	14 487 kg	31,938 lb
Rear Axle Bare Chassis Weight	14 133 kg	31,158 lb
Rear Axle Payload	52 398 kg	115,518 lb

Operating Weights – without Hoist Cylinders

Bare Chassis Weight	31 805 kg	70,118 lb
Payload	67 495 kg	148,801 lb
Front Axle Bare Chassis Weight	17 938 kg	39,547 lb
Front Axle Payload	14 831 kg	32,697 lb
Rear Axle Bare Chassis Weight	13 867 kg	30, 571 lb
Rear Axle Payload	52 664 kg	116,104 lb

- Care must be taken when designing any attachments so that the axle weights are not exceeded.

Tires

24.00R35 (E4)

- Productive capabilities of the 773 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 evaluate all job conditions and consult the tire manufacturer for proper tire selection

Weight Distributions – Approximate

Front Axle – Empty	46.6%
Front Axle – Loaded	33.8%
Rear Axle – Empty	53.4%
Rear Axle – Loaded	66.2%

Final Drives

Differential Ratio	3.64:1
Planetary Ratio	4.8:1
Total Reduction Ratio	17.48:1

- Planetary, full floating

Brakes

Brake Surface – Front	1395 cm^2	216 in^2
Brake Surface – Rear	61 269 cm^2	9,496 in^2
Brake Standards	ISO 3450:2011	

Transmission

Forward 1	10.8 km/h	6.7 mph
Forward 2	15.1 km/h	9.4 mph
Forward 3	20.4 km/h	12.7 mph
Forward 4	27.4 km/h	17 mph
Forward 5	37 km/h	23 mph
Forward 6	50 km/h	31.1 mph
Forward 7	67.8 km/h	42.1 mph
Reverse	13.1 km/h	8.1 mph

- Maximum travel speeds with standard 24.00R35 (E4) tires.

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Body Hoists

Pump Flow – High Idle	562 L/min	148 gal/min
Relief Valve Setting – Raise	17 225 kPa	2,500 psi
Relief Valve Setting – Lower	3445 kPa	500 psi
Body Raise Time – High Idle	9.5 seconds	
Body Lower Time – Float	12.5 seconds	

- Twin, two-stage hydraulic cylinders mounted outside the main frame; double acting cylinders in second stage.
- Power raise in both stages and power down in second stage

Service Refill Capacities

Fuel Tank	700 L	185 gal
Cooling System	122 L	32 gal
Crankcase	68 L	18 gal
Differentials and Final Drives	155 L	41 gal
Steering Tank	34 L	9 gal
Steering System (includes tank)	60 L	16 gal
Brake/Hoist Hydraulic Tank	133 L	35 gal
Brake/Hoist System (includes tank)	307 L	81 gal
Torque Converter/Transmission System	53 L	14 gal
Torque Converter/Transmission System (includes sump)	72 L	19 gal

Steering

Steering Standards		ISO 5010:2007
Steer Angle		31°
Turning Diameter – Front	22 m	72 ft 2 in
Turning Circle Clearance Diameter	25 m	82 ft

- Separate hydraulic system prevents cross-contamination. Steering
- wheel effort is low and steering wheel cycle times are reduced with a new variable displacement, piston-type steering pump.

Suspension

Empty Loaded Cylinder Stroke Front	234 mm	5.2 in
Empty Loaded Cylinder Stroke Rear	149 mm	5.8 in
Rear Axle Oscillation	8.1°	

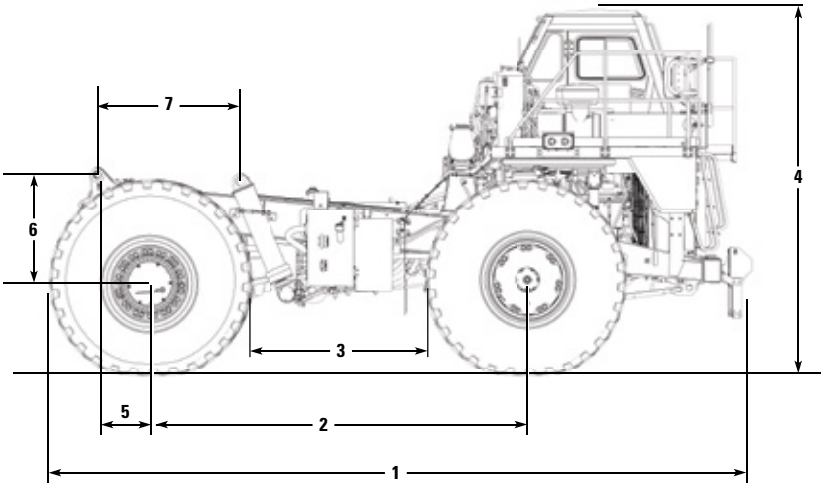
Cab

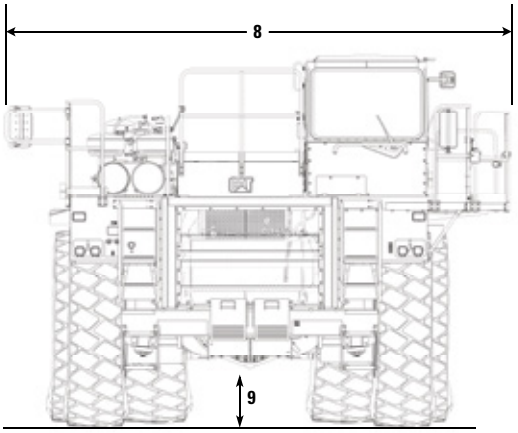
ROPS Certification Rating		Tractor ROPS Rating
773 (Tractor)	37 700 kg	83,114 lb

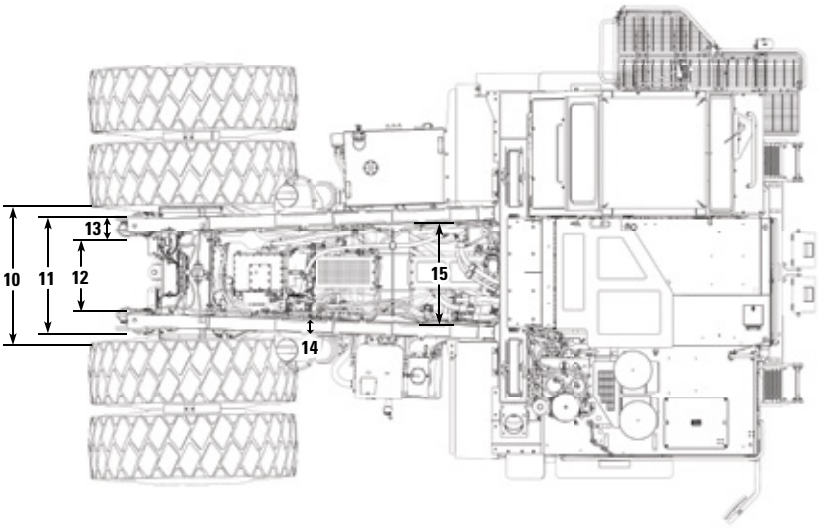
- Rollover Protective Structure (ROPS) for cab offered by Caterpillar meets ISO 3471:2008 for operator and ISO 13459:2012 for trainer.
- Falling Objects Protective Structure (FOPS) meets ISO 3449:2005 Level II FOPS criteria for operator and ISO 13459:2012 Level II criteria for trainer.
- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential =1430). The system contains 2.4 kg (5.29 lbs) of refrigerant, which has a CO_2 equivalent of 3.43 metric tonnes (3.78 tons).
- 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.

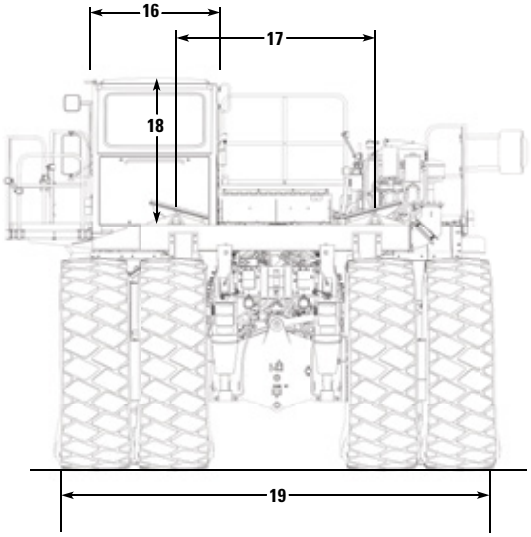
773 (05) OFF-HIGHWAY TRUCK BARE CHASSIS DIMENSIONS

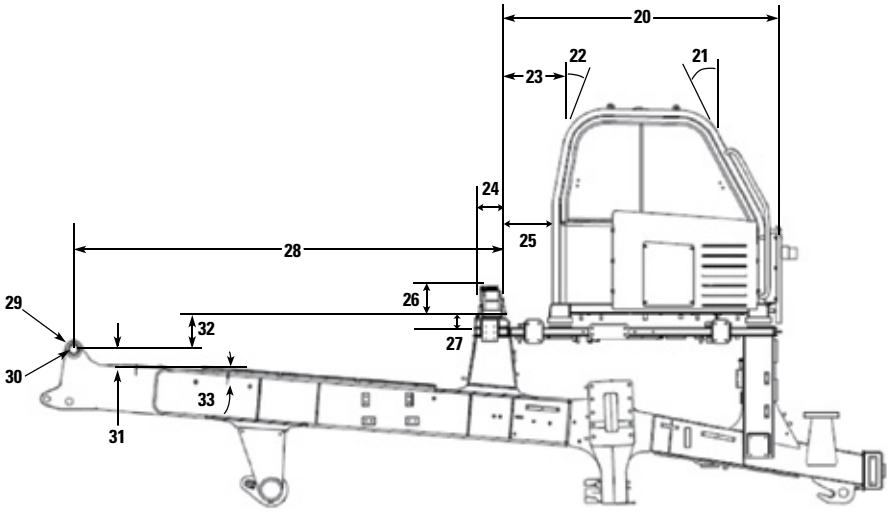
All dimensions are approximate.











773 (05) OFF-HIGHWAY TRUCK BARE CHASSIS DIMENSIONS

All dimensions are approximate.

Dimensions				
1	Overall Length ** (does not include Wheel Chocks)	9120 mm	29 ft	11 in
2	Wheel Base	4191 mm	13 ft	9 in
3	Distance Between Tires	1996 mm	6 ft	5 in
4	Height to Top of ROPS **	4000 mm	13 ft	2 in
5	Rear Axle to Body Pivot	591 mm	1 ft	9 in
6	Vertical Distance Between Body Pivot and Rear Axle	1194 mm	3 ft	9 in
7	Distance Between Body Pivot and Hoist Cylinders - Horizontal	1584 mm	5 ft	2 in
8	Overall Width	5539 mm	18 ft	2 in
9	Engine Guard Clearance **	754 mm	2 ft	4 in
10	Distance Between Hoist Cylinders	1585 mm	5 ft	2 in
11	Distance Between Body Pivots - Outer	1204 mm	3 ft	9 in
12	Distance Between Body Pivots - Inner	890 mm	2 ft	11 in
13	Body Pin Bearing Width	156.8 mm	0 ft	5 in
14	Frame Rail Width	142 mm	0 ft	5 in
15	Distance Between Frame Rails	1112 mm	4 ft	2 in
16	Cab Width	1310 mm	5 ft	3 in
17	Distance Between Rocker Pads	2064 mm	6 ft	9 in
18	Height of the Cab from Main Beam	1541 mm	5 ft	0 in
19	Overall Tire Width	4387 mm	14 ft	3 in
20	Distance Between Main Beam and Cab Front	2515 mm	8 ft	2 in
21	Cab Front Angle		18 degrees	
22	Cab Rear Angle		25 degrees	
23	Distance Between Main Beam and Cab Roof	795 mm	2 ft	6 in
24	Main Beam Width	282 mm	0 ft	9 in
25	Distance Between Main Beam and Cab Rear	59.5 mm	0 ft	2 in
26	Rocker Pad Height	255 mm	0 ft	8 in
27	Main Beam Height	284.5 mm	0 ft	9 in
28	Distance Between Body Pivot and Main Beam	3896 mm	12 ft	7 in
29	Body Pivot Outer Radius	75.6 mm	0 ft	2 in
30	Body Pivot Pin Diameter	75.6 mm	0 ft	2 in
31	Distance Between Body Pivot and Frame	83 mm	0 ft	2 in
32	Distance Between Main Beam and Body Pivot Pin	23.5 mm	0 ft	1 in
33	Frame Slope Angle		5.5 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
Cat® 3412E HEUI™ engine: 12-cylinder diesel, air-to-air aftercooler (ATAAC), hydraulic electronic unit injection, air filter with precleaner (2), automatic cold mode idle control, turbocharger (2)	•	
Extended life coolant to -35° C (-30° F)	•	
Braking system: oil-cooled – multiple disc (rear), parking/secondary, caliper disc (front), manual retarder (utilizes rear oil-cooled, multiple disc brakes), brake release motor (towing)	•	
Auto retarder control (ARC)		○
Traction Control System (TCS)		○
IBC (ARC & TCS)		○
Transmission: 7-speed automatic power shift with ICM control, body upshift inhibitor, controlled throttle shifting, directional shift management, downshift inhibitor, neutral coast inhibitor, neutral start switch, programmable top gear/speed selection, reverse neutralizer during dumping, reverse shift inhibitor	•	

ELECTRICAL	Standard	Optional
Alarm backup	•	
Alternator, 115 ampere	•	
Auxiliary jump start receptacle	•	
Batteries, maintenance-free, 12V (2), 190 amp-hour	•	
Electrical system, 24V	•	
Lighting system: backup light (halogen), directional signals/hazard warning (front and rear LED), headlights – (LED) with dimmer, hazard lights (LED), stop/tail lights (LED)	•	

OPERATOR ENVIRONMENT	Standard	Optional
Air filter service indicator	•	
Air system pressure gauge	•	
Ashtray and cigarette lighter	•	
Audiovisual seat belt reminder	•	
Brake oil temperature gauge	•	
Camera System	•	
Coat hook, cup holder	•	
Coolant temperature gauge	•	
Diagnostic connection port	•	
Engine overspeed indicator	•	
Entertainment radio ready: speakers, antenna, wiring harness	•	
Fog lamp		○
Heated mirrors		○
Hoist lever	•	
Hour meter	•	
HVAC	•	
Left side power window	•	
Load counter, automatic: Advisor display	•	
Mirrors, left and right	•	
Right side access door	•	
ROPS cab, insulated/sound suppressed	•	
Seat, Cat Comfort, full air suspension and retractable four-point seat belt with shoulder harness	•	
Seat, trainer with lap belt	•	
Tachometer	•	
Throttle lock	•	
Tinted, laminated glass	•	
Transmission gear indicator	•	
Transmission oil temperature gauge	•	

Standard and Optional Equipment

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

OTHER EQUIPMENT		
Airline dryer	•	
Automatic lubrication system		○
Body down indicator	•	
Center mounted rims	•	
Cluster/grouped lubrication system		○
Cold weather packages		○
Driveline guards, operator safety vandalism protection lock	•	
Engine crankcase guards	•	
Exhaust Muffler		○
Fast fluid fill system		○
Fire extinguisher		○
Fuel system, Fast fill		○
Ground level battery disconnect	•	
Ground level machine shutdown	•	
Ground level grease fittings	•	
Guard, Turbocharger		○
Hydro pneumatic suspension at front and rear	•	
Oil change system – high speed		○
Parts manual – digital (QR)	•	
Reservoirs: transmission, steering, brake – converter, hoist	•	
Spare rim		○
Supplemental steering, automatic	•	
Wheel Chocks		○

CAT TECHNOLOGY PRODUCTS		
Product Link™, cellular or satellite	•	
Vital Information Management System (VIMS™)		○
Truck Payload Management System (TPMS)		○

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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AEXJ0185 (10-2026)
Build number: 05
(Afr-ME, CIS, Asia Pacific, SE Asia)