



# 770

## Off-Highway Truck

Military Version



### Cat® C15 ACERT™ Engine

Gross Power - SAE J1995	381 kW	511 hp
Net Power - SAE J1349	355 kW	476 hp

### Weight – Approximate

Empty Machine Weight	35 380 kg	78,000 lb
Target Gross Machine Operating Weight	71 214 kg	157,000 lb

### Operating Specifications

Nominal Payload Class	36.3 tonnes	40 tons
Body Capacity – SAE 2:1	25.1 m <sup>3</sup>	32.9 yd <sup>3</sup>

## MISSION CAPABLE

### The Cat® 770 Off-Highway Truck – Tested, Proven, and Reliable – Mission Capable

The **Cat 770 Off-Highway Truck** is equipped with a 32.9 cubic yard body that is capable of hauling loads up to 40 tons. The 770 is designed with transportability in mind, incorporating tailored MIL-STD-209K lift and tiedown provisions as well as being self-transportable, with a top speed of 46.5 mph.

The 770 provides enhanced operational readiness for the construction of airfields, roads, landing zones, defensive berms, anti-tank ditches, and other key military construction zones.



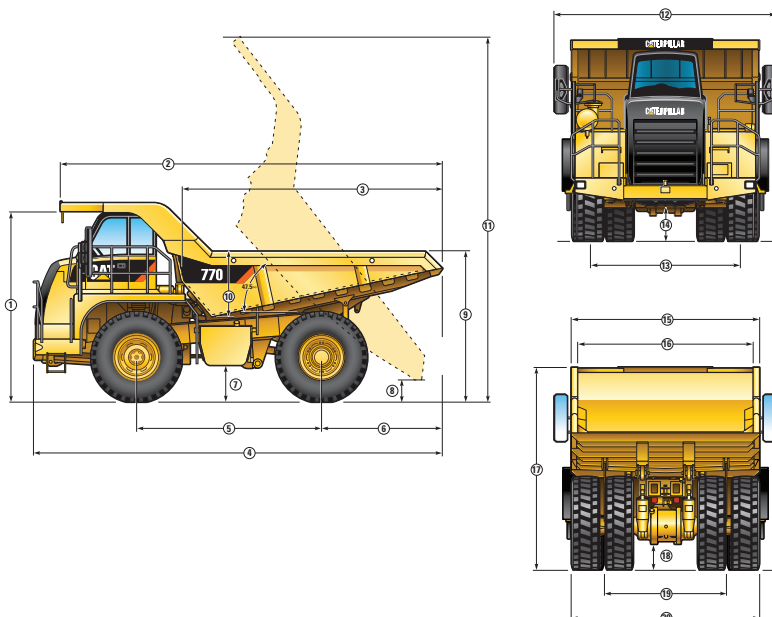
**Lift and Tiedowns.** Tailored MIL-STD-209K lift and tiedown provisions are featured on the machine.

**Body.** The reinforced body is made from thick high-yield, heat-treated hardened steel that provides exceptional durability.

**Box-Section Design.** The 770 frame uses a box-section design, incorporating two forgings and thirteen castings in high-stress areas with deep penetrating and continuous wrap-around welds to resist damage from twisting loads without adding extra weight.

**Body Design.** The new dual slope and flat floor body systems use fully fabricated steel structures, offering a strong, yet weldable underbody structure. All interior, steel body surfaces that come in contact with material are fabricated from hardened steel to provide superior wear characteristics and resistance to impact. The wide box-section ribs provide excellent durability and impact support in the floor, front-wall, sidewall, and top rail areas to provide strength and durability for the life of the machine.

## Machine Dimensions



1	Height to Top of ROPS	3911 mm	12 ft 10 in
2	Overall Body Length	8185 mm	26 ft 10 in
3	Inside Body Length	5549 mm	18 ft 3 in
4	Overall Length	9020 mm	29 ft 7 in
5	Wheelbase	3960 mm	13 ft
6	Rear Axle to Tail	2595 mm	8 ft 6 in
7	Ground Clearance	680 mm	2 ft 3 in
8	Dump Clearance	498 mm	1 ft 7 in
9	Loading Height – Empty	3158 mm	10 ft 4 in
10	Inside Body Depth – Max.	1326 mm	4 ft 5 in
11	Overall Height – Body Raised	8280 mm	27 ft 2 in
12	Operating Width	4780 mm	15 ft 8 in
13	Centerline Front Tire Width	3110 mm	10 ft 3 in
14	Engine Guard Clearance	673 mm	2 ft 3 in
15	Outside Body Width	3932 mm	12 ft 10 in
16	Inside Body Width	3698 mm	12 ft 2 in
17	Front Canopy Height	4195 mm	13 ft 9 in
18	Rear Axle Clearance	508 mm	1 ft 9 in
19	Centerline Rear Dual Tire Width	2536 mm	8 ft 4 in
20	Overall Tire Width	3693 mm	12 ft 2 in

**Worldwide Locations.** The Caterpillar global network of authorized dealers supports the U.S. Military in every corner of the globe. With heavy construction equipment dealers located in over 200 countries, Caterpillar's support organization provides global coverage.



**Service Capabilities.** Cat field service technicians have the experience and tools necessary to service your equipment on-site. Field service trucks are fully loaded with state-of-the-art tools and diagnostic equipment as well as specifications and schematics for every Cat machine. Technical experts at the Dealership and at Caterpillar are available to provide assistance to field service technicians when needed. When on-site repair isn't enough, Cat Dealerships are fully-equipped to service your equipment quickly.

**Dealer Support.** The Caterpillar global network of authorized dealers is the best in the world at providing support to keep your equipment up and running. With 99.7% of parts shipped within 24 hrs, Cat Dealers are supporting the 770 Off-Highway Truck.

**Engine**

Engine Model	Cat® C15 ACERT™	
Rated Engine Speed	1,800 rpm	
Gross Power-SAE J1995	381 kW	511 hp
Net Power-SAE J1349	355 kW	476 hp
Net Power-ISO 9249:1997	355 kW	476 hp
Net Power-80/1269/EEC	355 kW	476hp
Number of Cylinders	6	
Peak Torque	2320 N·m	1,711 lb-ft
Bore	137 mm	5.4 in
Stroke	171 mm	6.7 in
Displacement	15.2 L	927.6 in <sup>3</sup>

**Service Refill Capacities**

Fuel Tank	530 L	140 gal
Cooling System	114 L	30 gal
Crankcase	34 L	9 gal
Differentials & Final Drives	159 L	42 gal
Steering Tank	34 L	9 gal
Steering System (Includes Tank)	56 L	15 gal
Brake/Hoist/Fan Hydraulic Tank	155 L	35 gal
Brake/Hoist/Fan System (Tank)	277 L	73 gal
Transmission/Torque Converter Sump	53 L	14 gal
Transmission/Torque Converter System (Includes Sump)	95 L	25 gal

**Operating Specifications**

Nominal Payload Class	36.3 tons	40 tons
Top Speed-Loaded	74.8 km/h	46.5 mph
Body Capacity-SAE 2:1	25.1 m <sup>3</sup>	32.9 yd <sup>3</sup>
Target Payload Capacity	36.3 tons	40 tons

**Weights – Approximate**

Target Gross Machine Operating Weight	71 214 kg	157,000 lb
Chassis Weight	24 213 kg	53,380 lb
Body Weight	10 029 kg	22,110 lb

**Weight Distributions – Approximate**

Front Axle - Empty	48%
Front Axle - Loaded	34%
Rear Axle - Empty	52%
Rear Axle - Loaded	66%

**Transmission**

Forward 1	12.1 km/h	7.5 mph
Forward 2	16.6 km/h	10.3 mph
Forward 3	22.5 km/h	14 mph
Forward 4	30.3 km/h	18.8 mph
Forward 5	40.9 km/h	25.4 mph
Forward 6	55.2 km/h	34.3 mph
Forward 7	74.8 km/h	46.5 mph
Reverse	15.9 km/h	9.9 mph

• Maximum travel speeds with standard 18.00R33 (E4) tires.



**Remanufactured Parts.** Cat engines and major components are designed to be remanufactured and provide multiple life cycles. Components are remanufactured in the factory to original specifications with necessary product updates.

## MILITARY MODIFICATIONS

- Tailored MIL-STD-209K Lift and Tiedown Provisions
- NATO Start Receptacle
- Rifle Bracket
- External Military Paint
- Military Data Plates
- Keyless Engine Start Switch

## STANDARD EQUIPMENT

*Standard equipment may vary. Consult Caterpillar Defense & Federal Products for details.*

### Operator Environment

Air conditioning  
Ashtray and cigarette lighter  
Coat hook  
Cup holders (4)  
Diagnostic connection port, 24V  
Entertainment Radio Ready:  
5 amp converter  
Speakers  
Antenna  
Wiring harness  
Gauges/Indicators:  
Air cleaner service indicator, electronic  
Brake oil temperature gauge  
Coolant temperature gauge  
Engine overspeed indicator  
Fuel Level  
Hour meter  
Speedometer/odometer  
Tachometer  
Transmission gear indicator  
Heater/defroster  
Hoist lever  
Horn, electric  
Light, dome/courtesy  
Messenger display unit  
Mirrors  
Power port, 12V  
ROPS cab, insulated/sound suppressed

Seat, Cat Comfort:  
Full air suspension  
Retractable belt with shoulder harness  
Seat, training with lap belt  
Steering wheel, padded, tilt and telescopic  
Storage compartment  
Sun visor, tinted glass  
Throttle lock  
Windshield wiper (intermittent) and washer

### PowerTrain

Cat C15 Engine with ACERT™ Technology:  
6-cylinder diesel  
Air-to-Air Aftercooler (ATAAC)  
Air cleaner with precleaner (1)  
Automatic cold mode idle control  
Electric start  
Quick Evac System with engine prelube  
Turbocharger  
Braking System:  
Automatic Retarder Control (ARC)  
Brake release motor (towing)  
Caliper-disc (front)  
Oil-cooled, multiple disc (rear)  
Parking  
Secondary  
Service

Transmission:  
7-speed automatic powershift  
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

### AntiFreeze

Extended Life Coolant to -35C (-30F)  
Engine Coolant Heater – 120V

### Electrical

Alarm, backup  
Alternator, 95-amp  
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/rear LED)  
Headlights, halogen with dimmer  
Operator access and courtesy lights  
Side profile lights  
Stop/tail lights LED

For more information visit: [www.catdftp.com](http://www.catdftp.com)

*All dimensions are approximate. Dimensions may vary with configuration. Specific military service configurations are available upon request.*

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Materials and specifications are subject to change without notice. Featured machines may include additional equipment. See your account manager for available options.

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