777EOff-Highway Truck





Engino	Model
Engine	wouei

Engine Power – ISO 14396	749 kW	1,004 hp
Gross Power – SAE J1995	758 kW	1,016 hp
Net Power – SAE J1349	708 kW	949 hp
Weights		
Maximum Gross Machine Weight (MGMW)	163 360 kg	360,147 lb

Operating Specifications

Target Payload	98.2 tonnes	108.2 tons
Maximum Payload*	108.0 tonnes	119.1 tons

- Target Payload calculated using Dual Slope Body option. Excluded all other attachments.
- *Refer to Caterpillar 10/10/20 Payload Policy.



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The E Series Off-Highway Truck represents a new era for this size class from Caterpillar. We designed and manufactured a truck that is reliable and economical offering comfort, confidence, and control for the operator. The customer's long-term success is our goal and with E Series trucks, we're on the right road.





A Focus on Personnel

The 777E is designed to minimize slips and falls, providing firm footing and stability.

- Ground level Engine and Machine lockout controls
- Integrated access system with handrails for three-points of contact
- Aggressive tread plate on all step areas with lighted access for night operation

Confidence and Control

Confident operators will move material quickly, efficiently, and profitably.

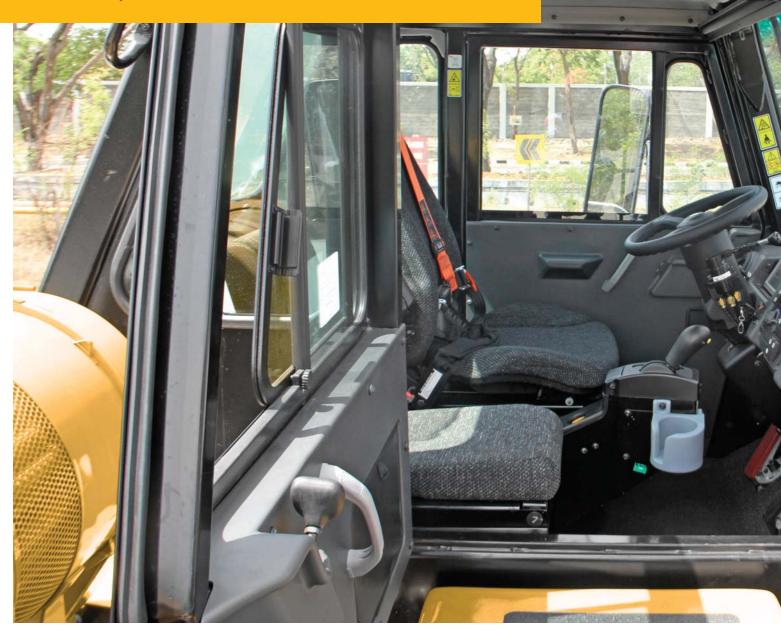
- · Wet Disc Braking on rear wheels is standard
- Integrated park brake for slope holding capability
- Manual Retarder provides better speed control on downhill grades
- Automatic Retarding Control (ARC) is optional
- Traction Control System (TCS), if equipped, improves control in poor underfoot conditions

Key Features

- Rollover and Falling Object Protection is an extension of the truck frame
- Emergency egress available through the right side hinged window
- · Laminated glass is used in the front and left side windows
- Ground level engine shutdown
- Integrated four-point seat belt with reminder
- Trainer seat with lap belt facilitates on-the-job training
- Excellent visibility with mirror, lighting, and camera options
- Gear limiting during body up operations



Operator Work EnvironmentProductivity from comfort, confidence, and control





The all new 777E operator station interior is ergonomically designed for total machine control in a comfortable, productive, and safe environment.



CAI

Comfort

- A newly designed interior operator station is ergonomically designed for total machine control and a comfortable and safe environment
- Cat® Comfort Seat with air suspension and a retractable four-point harness is adjustable and secure
- Outstanding visibility with mirror, camera, and lighting options
- Left side power window
- HVAC is standard

Information

The Advisor display and VIMS $^{\text{TM}}$ software are important reporting tools that help you analyze:

- Productivity, haul road efficiency, operator skill with TPMS installed
- Fuel use, cycle times, idle time
- Machine health and events

Control

From improved visibility to helpful technology, it's never been easier to be so productive.

- Excellent visibility and clear sight lines to the haul road
- Cat systems include features to help the operator control ground speed, engine speed, braking on grade, traction, even fuel consumption, higher productivity, and for greater confidence





Burning less fuel, extending the service life of components like filters, tires or fluids, even using remanufactured parts, are all environmentally friendly. They are also bottom line friendly, reducing your operating costs while reducing the impact on our world.

Fuel Economy

The 777E fuel saving strategies finds opportunities to reduce fuel burn and fuel costs.

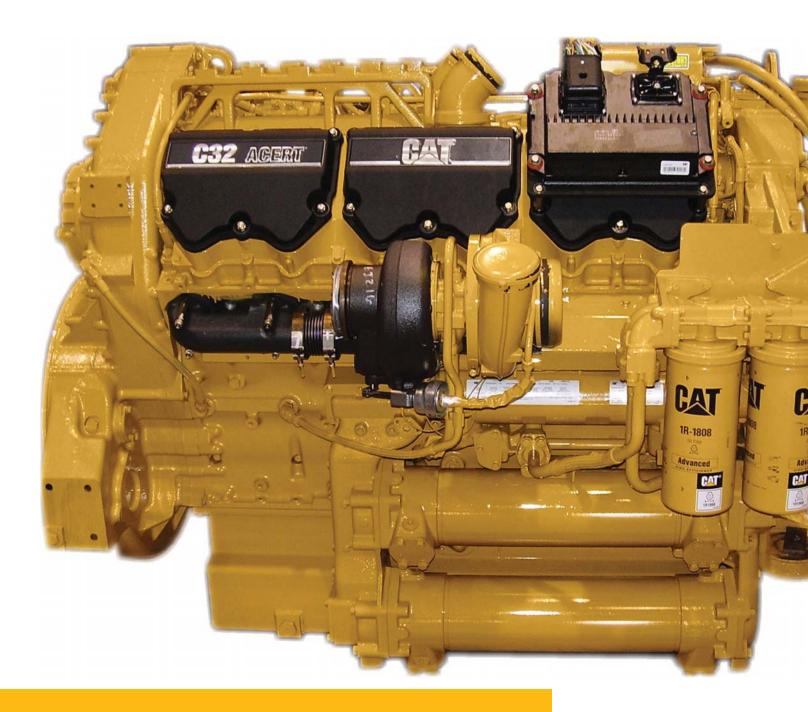
- Meets U.S. EPA Tier 2 Equivalent emission standards
- Certified for China Nonroad Stage III emission standards
- Economy Mode modifies engine maps to take advantage of steady grades and level ground, reducing power and fuel burn
- Programmable top gear/speed to help operators maintain speed limits and save fuel
- Speed Limiting automatically selects the most fuel efficient gear and speed for the terrain instantaneously
- Engine Idle Shutdown identifies when the truck is in park and idles for more than a preset time and initiates engine shutdown to conserve fuel

Component Life

- Engine Oil Service Interval increased to 500 hours
- Remanufactured parts are an economical and eco-friendly alternative to new
- Castings and box-section frame construction ensure long-life
- Delayed Engine Shutdown prevents hot shutdowns that can reduce component life



Fuel Economy Mode Switch



Performance

More power, better production

The 777E will haul your material faster and more efficiently with increases in torque, new transmission controls, and higher travel speeds.

- New transmission controls carry more torque through the shifts, producing faster cycle times most noticeably on grades
- An increase in travel speed in 7th gear also helps generate faster cycle times



Updated Cat C32 ACERT™

- Seven percent more usable torque improving performance and cycle times
- Cat MEUITM injectors improve fuel efficiency and load response
- Excellent high-altitude capability
- The C32 ACERT is carefully balanced with vibration controls that reduce noise and protect against unnecessary harmonics
- Ground level engine shutdown switch for safety

Transmission

The Electronic Clutch Pressure Control (ECPC) Transmission with controlled throttle shifting regulates engine speed, torque converter lock-up, and clutch engagement. The result is smoother shifts, reduced clutch wear, and longer component life.

• Downshift Inhibitor prevents engine overspeeding by keeping the transmission from downshifting until engine speed reaches the downshift point

Brakes

The front dry calipers with rear oil-cooled multiple disc brakes deliver reliable performance and control in the most extreme haul-road conditions.

Automatic Retarder Control (ARC) (optional)

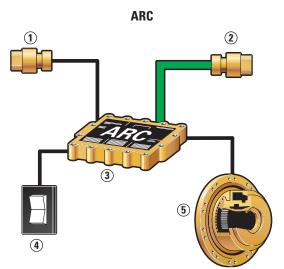
ARC controls braking on grade electronically, maintaining consistent engine speed, lower fuel burn, and better control.

Engine Overspeed Protection

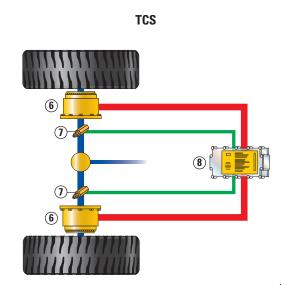
Electronically senses engine conditions and automatically up-shifts one gear to prevent overspeeding. If overspeeding occurs in the top gear, the lock-up clutch is disengaged and the brakes are applied.

Traction Control System (TCS) (optional)

TCS controls rear wheel slip for greater traction and enhanced truck performance in poor underfoot conditions. If slippage exceeds a set limit, rear wet brakes slow the spinning wheel and torque is transferred to the tractive wheel for optimum control.



- 1) Service Brake Sensor
- 2) Engine Sensor
- 3) ARC
- 4) ARC Switch
- 5) Brakes
- 6) Service Brakes
- 7) Axle Speed Sensor
- 8) TCS





Structures

Reliability established over years of service

Structural Strength

The 777E frame uses a proven box-section design that resists damage from twisting loads without adding extra weight. Castings have large radii with internal reinforcing ribs to dissipate stress and move welds to lower stress areas for longer frame life.

- Mild steel used throughout frame provides flexibility, durability and resistance to impact loads, even in cold climates, and allows for easy field repairs
- The open design allows easy access to power train components, reducing removal and installation time, and lowering overall repair costs
- The integral ROPS structure is designed as an extension of the truck frame, resiliently mounted to the main frame to reduce vibration and sound

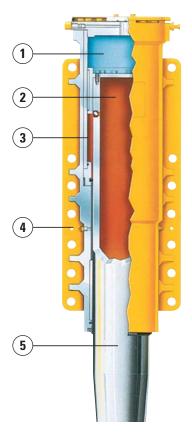
Suspension

Designed to dissipate haul road and loading impacts for longer frame life and a more comfortable ride.

- Front spindles and wheels are rigidly mounted to the cylinder rods for reliable operation and long-life
- Rear wheel spindles are solid steel for longer life and the rear suspension cylinders have been inverted to minimize contamination
- These rugged cylinders use large diameter bore and low pressure nitrogen/oil design for long-life with minimal maintenance







- 1) Nitrogen
- 2) Oil
- 3) Rebound Chamber
- 4) Cylinder Housing
- 5) Piston



Steering

Cat integrated steering and suspension system is designed for precise steering, excellent maneuverability, minimal tire wear, and superior ride control.

- The steering linkage is designed to provide good feedback to the operator
- The Cat king pin front suspension system maintains steering tolerances and tire alignment
- The steering system is separate from the main hydraulic system to prevent cross-contamination and overheating from other sources
- Main hydraulic steering system is backed by a battery powered secondary steering system that allows up to three 90° turns in case of engine failure
- System automatically engages when needed



Body Options

Rugged performance in the toughest applications

Dual Slope Body

- Excellent material retention and stability in steep slope haul profiles
- Heaped capacity of 60.1 m³ (78.8 yd³) in standard configuration
- Material is carried low and centered for stability
- Different-sized sideboards are available to increase capacity for lighter weight materials
- 400 BHN steel on interior surfaces offers excellent wear characteristics
- Body liner options are available to help extend the body system's life

X Body

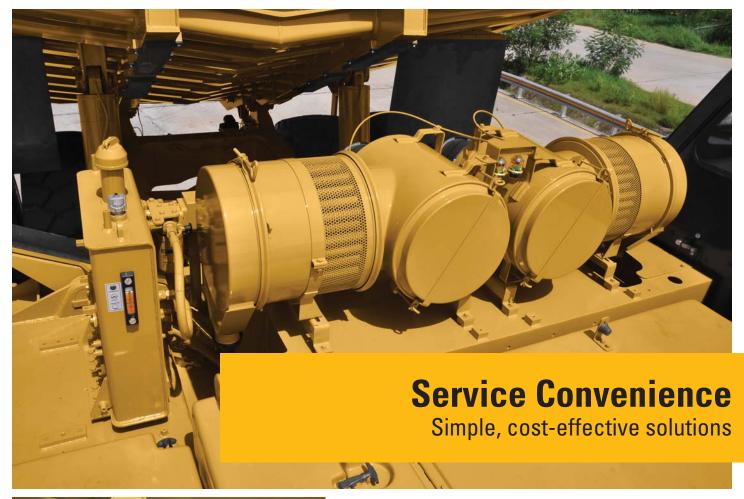
If you're feeding a crusher, the flat floor of the X Body is an excellent choice for metering material.

- The X Body also offers excellent material retention and stability
- Steel liners are available for wear protection





1) Dual Slope Body 2) X Body Flat Floor





Easy access to daily service points simplifies servicing and reduces time spent on regular maintenance procedures. Enhanced serviceability and extended service intervals are designed to increase machine availability and productivity.

Service Center – Electrical Connections

- Master disconnect switch
- Engine lockout switch
- Machine lockout switch
- Breaker access

Diagnostic Capability

- Critical power train data, including transmission shifting, engine speed and fuel consumption, provides service technicians with enhanced diagnostic capability to reduce downtime and operating costs
- Cat ET service tool provides service technicians with easy access to stored diagnostic data through the Cat Data Link

Engine		
Engine Model	Cat C32 ACERT	
Engine Speed	1,750 rpm	
Engine Power – ISO 14396:2002	749 kW	1,004 hp
Gross Power – SAE J1995:2014	758 kW	1,016 hp
Net Power – SAE J1349:2011	708 kW	949 hp
Net Torque @ 1,300 rpm	4757 N·m	3,509 lbf-ft
Net Torque Rise	23%	
Cylinders	12	
Bore	145 mm	5.7 in
Stroke	162 mm	6.4 in
Displacement	32.1 L	1,959 in ³

- Power rating applies at 1,750 rpm when tested under the specified condition for the specified standard.
- Ratings based on SAE J1349:2011 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 3048 m (10,000 ft) altitude.
- Meets U.S. EPA Tier 2 Equivalent emission standards.
- Certified for China Nonroad Stage III emission standards.

Transmission		
Forward 1	10.7 km/h	6.6 mph
Forward 2	14.6 km/h	9.1 mph
Forward 3	19.8 km/h	12.2 mph
Forward 4	26.7 km/h	16.6 mph
Forward 5	36.2 km/h	22.5 mph
Forward 6	48.6 km/h	30.2 mph
Forward 7	65.9 km/h	40.9 mph
Reverse 1	12.1 km/h	7.5 mph

• Maximum travel speeds with standard 27.00R49 (E4) tires.

Final Drives		
Differential Ratio	2.74:1	
Planetary Ratio	7.00:1	
Total Reduction Ratio	19.16:1	

Brakes		
Brake Surface Area Front Caliper	2787 cm ²	432 in ²
Brake Surface Area Front OCDB	40 846 cm ²	6,331 in ²
Brake Surface Area – Rear	102 116 cm ²	15,828 in ²
Brake Standard	ISO 3450:2011	
Body Hoists		
Pump Flow – High Idle	491 L/min	130 gal/min
Body Raise Time – High Idle	15 seconds	
Capacity – Dual Slope – 100%	% Fill Factor	
Struck	42.1 m ³	55 yd ³
Heaped (SAE 2:1)*	60.1 m ³	78.6 yd³

- Contact your local Cat dealer for body recommendation.
- * ISO 6483:1980.

Capacity – X Body – 100% Fill Factor		
Struck	43.1 m ³	56.3 yd ³
Heaped (SAE 2:1)*	64.1 m ³	83.8 yd³

- Contact your local Cat dealer for body recommendation.
- * ISO 6483:1980.

Weight Distributions – Approximate		
Front Axle – Empty/Loaded	44%/30%	
Rear Axle – Empty/Loaded	56%/70%	
Suspension		
Effective Cylinder Stroke – Front	318 mm	12.5 in
Effective Cylinder Stroke – Rear	165 mm	6.5 in
Rear Axle Oscillation	5.4°	

Sound

Sound Standards ISO 6393:2008, SAE J1166:2008

- For cab offered by Caterpillar, the operator sound exposure Leq (Equivalent Sound Pressure Level) is 80 dB(A) when measured according to work cycle procedures specified in SAE J1166:2008. This occurs when the cab is properly installed and maintained. The test was conducted with doors and windows closed.
- For cab offered by Caterpillar, the dynamic operator sound pressure level is 80 dB(A) as per ISO 6396:2008. This occurs when the cab is properly installed and maintained. The test was conducted with doors and windows closed.

Steering		
Steering Standard	ISO 5010:200	07
Steer Angle	30.5°	
Turning Diameter – Front	25.3 m	83 ft
Turning Circle Clearance Diameter	28.4 m	93 ft 2 in

• Separate hydraulic system prevents cross-contamination.

ROPS

ROPS/FOPS Standards

- Rollover Protective Structure (ROPS) 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 for Operator and ISO 13459:2012 Level II FOPS criteria for Trainer.

Tires

Standard Tire 27.00R49 (E4)

- Productive capabilities of the 777E 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.

Service Refill Capacities		
Fuel Tank	1140 L	300 gal
Cooling System	212 L	56 gal
Crankcase	115 L	30.3 gal
Differentials	222 L	58.6 gal
Final Drives (each)	42 L	11 gal
Steering System (includes tank)	60 L	15.8 gal
Torque Converter/Brake/ Hoist Hydraulic Tank	390 L	103 gal
Transmission System	125 L	33 gal

Weight/Payload Calculation

	X BOI	DY (FLAT FLOOR)			
		327-0400	363-5111	363-5112	363-5113
Machine Weights Based	on Configuration	Without Liner	With Liner	With HD Liner	With Rubber Liner
Base: Floor/Sidewall/Frontwall	mm (in)	20/10/12 (0.79/0.39/0.47)	20/10/12 (0.79/0.39/0.47)	20/10/12 (0.79/0.39/0.47)	20/10/12 (0.79/0.39/0.47)
Liner: Floor/Sidewall/Frontwall	mm (in)		12/10/16 (0.47/0.39/0.63)	16/10/10 (0.63/0.39/0.39)	102/10/10 (4.02/0.39/0.39)
Body Volume	$m^3 (yd^3)$	64.1 (83.8)	63.5 (83.1)	63.6 (82.8)	60.9 (79.7)
Target Gross Machine Weight	kg (lb)	163 360 (360,147)	163 360 (360,147)	163 360 (360,147)	163 360 (360,147)
Empty Chassis Weight	kg (lb)	49 083 (110,694)	49 083 (110,694)	49 083 (110,694)	49 083 (110,694)
Body System Weight	kg (lb)	15 851 (34,945)	20 676 (45,583)	22 249 (49,501)	23 042 (50,800)
Empty Machine Weight	kg (lb)	63 979 (143,533)	68 804 (154,171)	70 377 (158,089)	71 170 (159,388)
Fuel Tank Size	L (gal)	1136 (300)	1136 (300)	1136 (300)	1136 (300)
Fuel Tank – 100% Fill	kg (lb)	955 (2,106)	955 (2,106)	955 (2,106)	955 (2,106)
Empty Operating Weight	kg (lb)	64 934 (145,639)	69 759 (156,277)	71 332 (160,195)	72 125 (161,494)
Target Payload*	kg (lb)	98 426 (214,508) 98.4 (107.3)	93 601 (203,870) 93.6 (101.9)	92 028 (199,952) 92.0 (100.0)	91 235 (198,653) 91.2 (99.3)
Target Payload Material Density	kg/m³ (lb/yd³)	1706 (2,844)	1638 (2,726)	1608 (2,683)	1665 (2,769)
Maximum Payload (110% of Target)*	kg (lb)			101 231 (219,947)	
Maximum (110%) Payload Material Density	tonnes (tons) kg/m³ (lb/yd³)	108.3 (118.0) 1877 (3,129)	103.0 (112.1) 1802 (2,998)	101.2 (110.0) 1769 (2,952)	100.4 (109.3) 1831 (3,046)
Not to Exceed Payload (120% of Target)*	kg (lb)	118 111 (257,410)	112 321 (244 644)	110 434 (239 942)	109 482 (238 384)
recto Exceed a dylodd (120 /0 or rangel)	tonnes (tons)	118.1 (128.7)	112.3 (122.3)	110.4 (120.0)	109.5 (119.2)
Maximum (120%) Payload Material Density	kg/m³ (lb/yd³)	2047 (3,413)	1965 (3,271)	1929 (3,220)	1997 (3,323)

Sideboards (Optional)

			363-	1520			
Height		Volume Add		Weight		Maximum (110%) Material Density**	
152 mm	6 in	4 m³	5.3 yd ³	976 kg	1,174 lb	1602 kg	2,678 lb
305 mm	12 in	7.9 m³	10.3 yd³	1513 kg	1,819 lb	1500 kg	2,518 lb
457 mm	18 in	11.5 m³	15.1 yd³	2003 kg	2,408 lb	1416 kg	2,381 lb
610 mm	24 in	14.8 m³	19.3 yd³	2568 kg	3,088 lb	1345 kg	2,270 lb
175 mm	6.9 in***	5.1 m³	6.7 yd ³	852 kg	1,024 lb	1502 kg	2,510 lb

^{*}Refer to Caterpillar 10/10/20 Payload Policy.

Note: Empty Chassis Weight is figured without fuel.

Payload Calculation: Definitions

Empty Machine Weight = Empty Chassis Weight + Body System Weight Target Payload = Target Gross Machine Weight less Empty Machine Weight Maximum Payload = Target Payload \times 1.10 (110%)

^{**}All Sideboards based on DS Lined Body. X Body Sideboard based on X Lined Body.

^{***}X Body only.

Weight/Payload Calculation

	DU	AL SLOPE		
		300-5670	277-3212	277-3213
Machine Weights Bas	ed on Configuration	Without Liner	With Liner	With Rubber Liner
Base: Floor/Sidewall/Frontwall	mm (in)	20/10/12 (0.79/0.39/0.47)	20/10/12 (0.79/0.39/0.47)	20/10/12 (0.79/0.39/0.47)
Liner: Floor/Sidewall/Frontwall	mm (in)		12/10/12 (0.47/0.39/0.47)	102/10/10 (4.02/0.39/0.39)
Body Volume	m³ (yd³)	60.1 (78.6)	59.5 (77.8)	57 (74.6)
Target Gross Machine Weight	kg (lb)	163 360 (360,147)	163 360 (360,147)	163 360 (360,147)
Empty Chassis Weight	kg (lb)	49 083 (110,694)	49 083 (110,694)	49 083 (110,694)
Body System Weight	kg (lb)	16 075 (32,954)	21 770 (48,003)	23 017 (50,752)
Empty Machine Weight	kg (lb)	64 203 (141,542)	69 898 (156,591)	71 145 (159,340)
Fuel Tank Size	L (gal)	1136 (300)	1136 (300)	1136 (300)
Fuel Tank – 100% Fill	kg (lb)	955 (2,106)	955 (2,106)	955 (2,106)
Empty Operating Weight	kg (lb)	65 158 (143,648)	70 853 (158,697)	72 100 (161,446)
Target Payload*	kg (lb)	98 202 (216,499)	92 507 (201,450)	91 260 (198,701)
	tonnes (tons)	98.2 (108.2)	92.5 (100.7)	91.3 (99.4)
Target Payload Material Density	kg/m³ (lb/yd³)	1816 (3,060)	1727 (2,877)	1779 (2,960)
Maximum Payload (110% of Target)*	kg (lb)	108 022 (238,149)	101 758 (221,595)	100 386 (218,571)
	tonnes (tons)	108.0 (119.1)	101.8 (110.8)	100.4 (109.3)
Maximum (110%) Payload Material Density	kg/m³ (lb/yd³)	1997 (3,367)	1900 (3,165)	1957 (3,255)
Not to Exceed Payload (120% of Target)*	kg (lb)	117 842 (259,799)	111 008 (241,740)	109 512 (238,441)
	tonnes (tons)	117.8 (129.9)	111.0 (120.9)	109.5 (119.2)
Maximum (120%) Payload Material Density	kg/m³ (lb/yd³)	2179 (3,673)	2073 (3,452)	2135 (3,551)

Sideboards (Optional)

363-1520							
Heig	Height Volume Add		e Add	Weight		Maximum (110%) Material Density**	
152 mm	6 in	4 m³	5.3 yd ³	976 kg	1,174 lb	1602 kg	2,678 lb
305 mm	12 in	7.9 m³	10.3 yd³	1513 kg	1,819 lb	1500 kg	2,518 lb
457 mm	18 in	11.5 m³	15.1 yd³	2003 kg	2,408 lb	1416 kg	2,381 lb
610 mm	24 in	14.8 m³	19.3 yd³	2568 kg	3,088 lb	1345 kg	2,270 lb
175 mm	6.9 in***	5.1 m³	6.7 yd³	852 kg	1,024 lb	1502 kg	2,510 lb

^{*}Refer to Caterpillar 10/10/20 Payload Policy.

Note: Empty Chassis Weight is figured without fuel.

Payload Calculation: Definitions

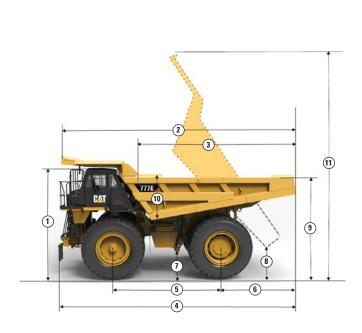
Empty Machine Weight = Empty Chassis Weight + Body System Weight Target Payload = Target Gross Machine Weight less Empty Machine Weight Maximum Payload = Target Payload \times 1.10 (110%)

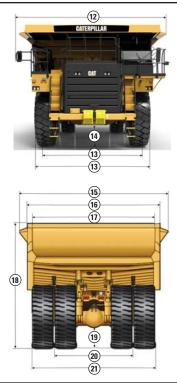
^{**}All Sideboards based on DS Lined Body. X Body Sideboard based on X Lined Body.

^{***}X Body only.

Dimensions

All dimensions are approximate.



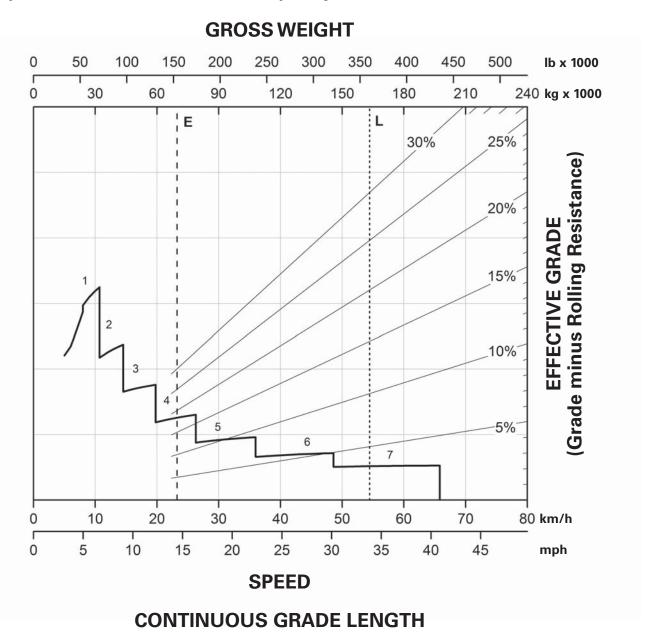


	Dual Slope		X Body	
	mm	ft	mm	ft
1 Height to Top of ROPS – Loaded	4730	15.51	4730	15.51
2 Overall Body Length	9555	31.35	10 070	33.00
3 Inside Body Length	6920	22.70	7168	23.57
4 Overall Length	10 004	32.82	10 230	33.56
5 Wheel Base	4570	15.00	4570	15.00
6 Rear Axle to Tail	3045	10.00	3263	10.70
7 Ground Clearance	896	2.93	896	2.93
8 Dump Clearance	890	2.91	818	2.68
9 Loading Height – Empty	4380	14.37	4430	14.53
10 Inside Body Depth – Maximum	1895	6.21	1777	5.83
11 Overall Height – Body Raised	9953	32.65	10 071	33.04
12 Operating Width	6105	20.00	6105	20.00
Operating Width Extended Catwalk	6545	21.47	6545	21.47
13 Center Line Front Tire Width	4163	13.66	4163	13.66
Overall Front Tire Width	4961	16.28	4961	16.28
14 Engine Guard Clearance	864	2.83	864	2.83
15 Overall Canopy Width	6200	20.34	6200	20.34
16 Outside Body Width	5524	18.12	5689	18.66
17 Inside Body Width	5200	17.06	5450	17.88
18 Front Canopy Height – Loaded	5177	17.00	5370	17.62
19 Rear Axle Clearance	902	2.95	902	2.95
20 Center Line Rear Dual Tire Width	3576	11.73	3576	11.73
21 Overall Tire Width	5262	17.26	5262	17.26

777E Retarding Performance (Tier 2 Equivalent)

To determine retarding performance: Add lengths of all downhill segments and, using this total, refer to proper retarding chart. Read from gross weight down to the percent effective grade. Effective grade equals actual % grade minus 1% for each 10 kg/t (20 lb/ton) of rolling resistance. From this weight-effective grade point, read horizontally to the curve with the highest obtainable gear, then down to maximum descent speed brakes can properly handle without exceeding cooling capacity. The following charts are based on these conditions: 32° C (90° F) ambient temperature, at sea level, with 27.00R49 (E4) tires.

NOTE: Select the proper gear to maintain engine rpm at the highest possible level, without overspeeding the engine. If cooling oil overheats, reduce ground speed to allow transmission to shift to the next lower speed range.



1 — 1st Gear

2 — 2nd Gear

3 — 3rd Gear

4 — 4th Gear

4 — 4th Gear 5 — 5th Gear

6 — 6th Gear

7 — 7th Gear

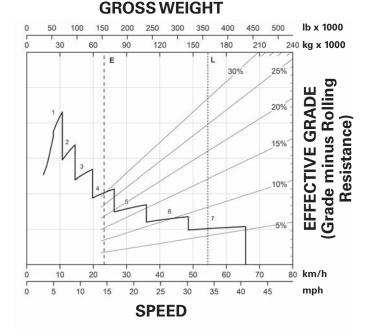
E — Empty 70 753 kg (155,983 lb)

L — Maximum GMW 163 360 kg (360,147 lb)

777E Retarding – 450 m (1,500 ft)

- E Empty 70 753 kg (155,983 lb)
- L Maximum GMW 163 360 kg (360,147 lb)

- 1 1st Gear
- 2 2nd Gear
- 3 3rd Gear
- 4 4th Gear
- 5 5th Gear
- 6 6th Gear
- 7 7th Gear

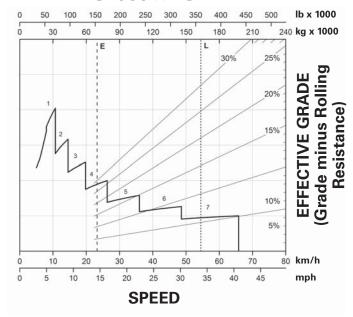


777E Retarding – 600 m (2,000 ft)

- E Empty 70 753 kg (155,983 lb)
- L Maximum GMW 163 360 kg (360,147 lb)

- 1 1st Gear
- 2 2nd Gear
- 3 3rd Gear
- 4 4th Gear
- 5 5th Gear
- 6 6th Gear
- 7 7th Gear

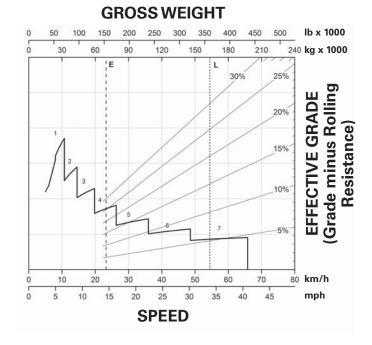
GROSS WEIGHT



777E Retarding – 900 m (3,000 ft)

- E Empty 70 753 kg (155,983 lb)
- Maximum GMW 163 360 kg (360,147 lb)

- 1 1st Gear
- 2 2nd Gear
- 3 3rd Gear
- 4th Gear
- 5 5th Gear
- 6 6th Gear
- 7 7th Gear

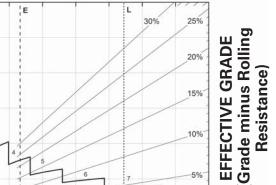


777E Retarding - 1500 m (5,000 ft)

- E Empty 70 753 kg (155,983 lb)
- Maximum GMW 163 360 kg (360,147 lb)

- 1 1st Gear

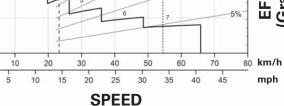
- 2 2nd Gear 3 — 3rd Gear 4 — 4th Gear 5 — 5th Gear 6 - 6th Gear 7 — 7th Gear



180

210

240 kg x 1000



GROSS WEIGHT

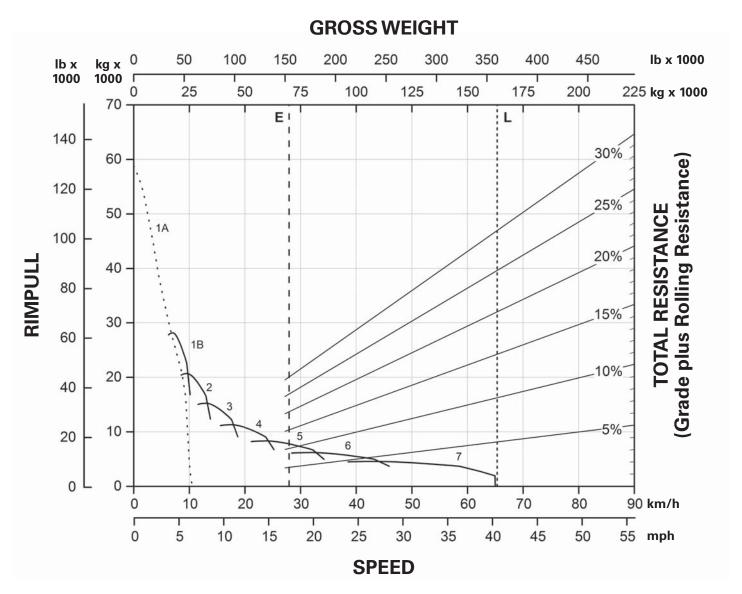
120

100 150 200 250 300 350 400 450 500

50

777E Gradeability/Speed/Rimpull

To determine gradeability performance: Read from gross weight down to the percent of total resistance. Total resistance equals actual percent grade plus 1% for each 10 kg/t (20 lb/ton) of rolling resistance. From this weight-resistance point, read horizontally to the curve with the highest obtainable gear, then down to maximum speed. Usable rimpull will depend upon traction available and weight on drive wheels.



1A — 1st Gear (Torque Converter)

— 1st Gear 1B

2 - 2nd Gear 3

— 3rd Gear

— 6th Gear - 7th Gear

— 4th Gear - 5th Gear E — Empty 70 753 kg (155,983 lb)

L — Maximum GMW 163 360 kg (360,147 lb)

Standard Equipment

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

POWER TRAIN

- Engine idle shutdown
- Air-to-air aftercooler (ATAAC)
- Air cleaner with precleaner (2)
- Automatic cold mode idle control
- Engine overspeed protection
- Electric priming pump
- Two starters and four batteries
- Fuel filter/water separator
- Turbocharger (2)
- · Biodiesel compatibility
- 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)
- 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/speed limit selection
- Economy mode

SUSPENSION SYSTEMS

- Hydro pneumatic suspension
- -Front and rear

ELECTRICAL

- · Alarm, backup
- · Alternator, 145 amp
- Auxiliary jump start receptacle
- Batteries, maintenance-free, 12V (4), 190 amp-hour
- Electrical system, 10 amp, 24V to 12V converter
- Backup light, halogen
- Directional signals/hazard warning
- -Front and rear, LED
- Headlights, halogen, with dimmer
- Operator access courtesy lights
- Stop/tail lights, LED

OPERATOR ENVIRONMENT

- HVAC
- · Ashtray and cigarette lighter
- Coat hook
- Diagnostic connection port
- Entertainment radio ready
- -Speakers, antenna, wiring harness
- · Air cleaner service indicator
- Transmission oil temperature gauge
- Air system pressure gauge
- Brake oil temperature gauge
- Coolant temperature gauge
- Hour meter
- Tachometer
- Engine overspeed indicator
- Fuel level, gauge
- Speedometer with odometer
- Transmission gear indicator
- Hoist lever
- Horn
- · Load counter, automatic
- Mirrors, left and right
- ROPS cab, insulated/sound suppressed
- Seat, Cat Comfort, full air suspension and retractable four-point seat belt with shoulder harness and seat belt reminder

- Seat, trainer with lap belt
- Steering wheel, padded/tilt/telescopic
- · Storage compartment
- Sun visor
- Throttle lock
- Right side access door
- Left side power window
- · Windshield wiper, intermittent, and washer
- Tinted, laminated glass

GUARDS

- · Engine crankcase
- Driveline, operator safety
- Vandalism protection lock

FLUIDS

• Extended life coolant to -35° C (-30° F)

OTHER STANDARD EQUIPMENT

- · Airline dryer
- Body mounting group
- Body safety pin (secures body in up position)
- · Body down indicator
- CD-ROM parts book
- Center-mounted rims
- Ground level battery disconnect
- Ground level engine shutdown
- Ground level grease fittings
- Reservoirs
- -Transmission
- -Steering
- -Brake, converter and hoist
- Rims 19.5 × 49
- Rock ejectors
- Secondary steering, automatic
- Tie down eyes
- Tow hooks (front)/tow pin (rear)

777E Optional Equipment

Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

- Fast Fuel System
- Wiggins fast oil change system
- AUTOLUBE
- Automatic Retarder Control (ARC)
- Traction Control System (TCS)
- Product link
- Vital Information Management System (VIMS)
- Payload Measurement System (TPMS)
- Advisor
- HID lights and LED lights
- EU Mirrors and Extended Mirrors, Mirrors, heated
- Cameras
- Radar (For India dealers only)
- Cold weather packages

- Body heat
- Body liner
- Body sideboards
- Spare rim
- Wheel chocks
- Backup alarm with visual
- Fog lamp
- Cab cooling fan

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

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

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