



Cat[®] 795F AC

Off-Highway Trucks

Preliminary

Specifications

Engine

Engine Model	Cat [®] C175-16	
Gross Power – SAE J1995	2535 kW	3,400 hp
Bore	175 mm	6.9 in
Stroke	220 mm	8.7 in
Displacement	85 L	5,187 in ³

- Power ratings apply at 1,800 rpm when tested under the specified condition for the specified standard.
- Ratings based on SAE J1995 standard air conditions of 25° C (77° F) and 99 kPa (29.61 Hg) dry 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 2591 m (8,500 ft) altitude.
- Compliant with U.S. Environmental Protection Agency Tier 2 emissions standards.

Weights – Approximate

Gross Machine Operating Weight (GMW)	570 166 kg	1,257,000 lb
Chassis Weight	194 874 kg	429,624 lb
Body Weight Range	38 500-59 000 kg	84,900-130,000 lb

- GMW depends on tire selection. Consult your tire manufacturer for maximum loaded top speed.
- Chassis weight with 100% fuel, hoist, body mounting group, rims and tires.
- Body weight varies depending on how body is equipped.

Operating Specifications

Nominal Payload Capacity	313 tonnes	345 tons
Top Speed – Loaded	64 km/h	40 mph
Steer Angle	34 degrees	
Turning Diameter – Front	34 m	112 ft
Turning Circle Clearance Diameter	38.7 m	127 ft

- Refer to the Caterpillar[®] Mining Truck 10/10/20 Overload Policy (AEXQ0250-02) for maximum gross machine weight limitations.

Final Drives

Total Reduction Ratio	35:1
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AC Drive System

Alternator	Brushless, remote mounted, dual bearing
Controls	IGBT Inverter Technology, air cooled, pressurized cabinet with filtration
Wheel Motor	Rear axle mounted Caterpillar AC induction
Cooling System	Variable speed, hydraulic cooling system

Suspension

Effective Cylinder Stroke – Front	293 mm	11.5 in
Effective Cylinder Stroke – Rear	141 mm	5.6 in
Rear Axle Oscillation	±4.8°	

Body Hoists

Pump Flow – High Idle	935 L/min	247 gal/min
Relief Valve Setting – Raise	24 500 kPa	3,553 psi
Body Raise Time – High Idle	26 Seconds	
Body Lower Time – Float	20 Seconds	
Body Power Down – High Idle	20 Seconds	

- Twin, two-stage hydraulic cylinders mounted inside main frame; double-acting cylinders in second stage.
- Power raise in both stages; power down in second stage.
- Automatic body-lower modulation reduces impact on frame.

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Braking System

Oil Cooled Brakes		
Outside Diameter	1067 mm	42 in
Brake Surface – Front	132 258.4 cm ²	20,500.09 in ²
Brake Surface – Rear	198 388 cm ²	30,750.2 in ²
Standards	J-ISO 3450 JAN88, ISO 3450:1996	
Electric Retarding		
Radial Grid Design		
Brushless AC Motor		
Dynamic Retarding Power	4750 kW	6,370 hp
Blended Four Corner Retarding		

Weight Distributions – Approximate

Front Axle – Empty	48%	
Rear Axle – Empty	52%	
Front Axle – Loaded	33%	
Rear Axle – Loaded	67%	

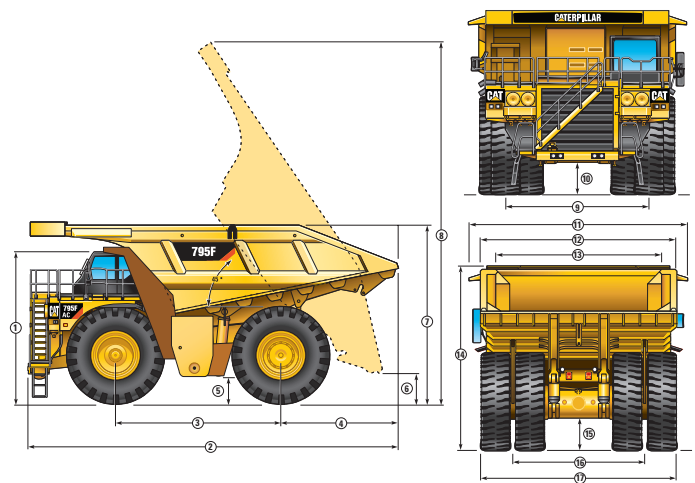
Capacity – MSD II – 100% fill factor

Struck	121.5-211 m ³	159-276 yd ³
Heaped (SAE 2:1)	181-252 m ³	237-330 yd ³

• Contact your local Caterpillar dealer for body recommendations.

Service Refill Capacities

Fuel Tank	3596 L	950 gal
Fuel Tank (optional)	7192 L	1,900 gal
Cooling System	1100 L	291 gal
Crankcase	310 L	82 gal
Final Drives, Each	341 L	90 gal
Steering Tank	210 L	55.5 gal
Steering System (Includes Tank)	300 L	79 gal
Brake/Hoist Hydraulic Tank	508 L	134.2 gal
Brake/Hoist System (Includes Tank)	1500 L	396.3 gal



Dimensions

All dimensions are approximate.
Shown with 220 m³ (288 yd³) MSD II Body.

1	Height to Top of ROPS	6327 mm	20 ft 9 in
2	Overall Length	15 146 mm	49 ft 9 in
3	Wheelbase	6725 mm	22 ft 1 in
4	Rear Axle to Tail	4411 mm	14 ft 6 in
5	Ground Clearance	750 mm	2 ft 6 in
6	Dump Clearance	1786 mm	5 ft 11 in
7	Loading Height – Empty	7040 mm	23 ft 2 in
8	Overall Height – Body Raised	15 063 mm	49 ft 6 in
9	Centerline Front Tire Width	6235 mm	20 ft 6 in
10	Engine Guard Clearance	1208 mm	4 ft 0 in
11	Overall Canopy Width	9380 mm	30 ft 10 in
12	Outside Body Width	8923 mm	29 ft 4 in
13	Inside Body Width	8014 mm	18 ft 0 in
14	Front Canopy Height	7800 mm	25 ft 8 in
15	Rear Axle Clearance	1016 mm	3 ft 4 in
16	Centerline Rear Dual Tire Width	5675 mm	18 ft 8 in
17	Overall Tire Width	8966 mm	29 ft 6 in

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

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