

Engine				
Engine Model	Cat [®] C9 ACER	Ттм		
Gross Power	189 kW	253 hp		
Net Power	173 kW	232 hp		
Weights				
Operating Weight	20 755 kg	45,765 lb		
Shipping Specifications				
Weight	20 345 kg	44,853 lb		

Engine

Engine Model	Cat [®] C9 ACERT™	
Gross Power	189 kW	253 hp
Net Power	173 kW	232 hp
ISO 3046-2	173 kW	232 hp
ISO 9249	175 kW	235 hp
SAE J1349	173 kW	232 hp
EEC 80/1269	175 kW	235 hp
Torque Rise	30%	
Bore	112 mm	4.4 in
Stroke	149 mm	5.9 in
Displacement	8.8 L	537 in ³
Cylinders	6	

- Engine meets U.S. Environmental Protection Agency Tier 3 emissions regulations and Stage IIIA EU Directive/97/68/EC.
- Engine power ratings apply at 2,100 rpm when tested under the specific standard conditions for the specified standard.
- Power rating conditions based on standard air conditions of 25° C (77° F) and 100 kPa (29.8 Hg) dry barometer, using 25° API gravity fuel having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29° C (85° F) [reference a fuel density of 828.9 g/L (7.001 lb/gal)].
- Torque rise at 1,200 rpm.

Transmission

Forward 1	6.2 km/h	3.9 mph
Forward 2	10.7 km/h	6.7 mph
Forward 3	17.6 km/h	11 mph
Reverse 1	7 km/h	4.4 mph
Reverse 2	12.1 km/h	7.6 mph
Reverse 3	19.5 km/h	12.2 mph

Steering

Steering Angle

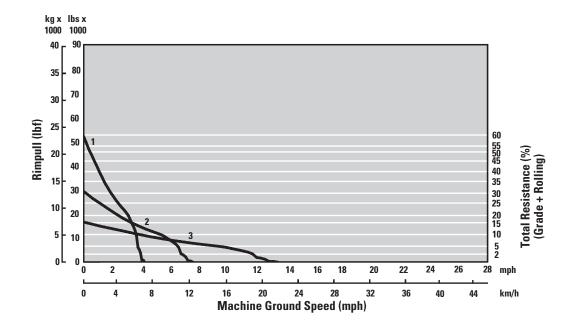
±42°

Wheels

Drum Width	991 mm	3 ft 3 in
Drum Diameter	1029 mm	3 ft 5 in
Outside Diameter	1425 mm	4 ft 9 in
Tips per Wheel	60	
Tips per Row	12	

Hydraulic System

Relief Valve Setting	15 550 kPa 2,255 psi
Lift Cylinder Bore $ imes$ Stroke	101.6 mm \times 627 mm 3.99 in \times 24.68 in
Tilt Cylinder Bore $ imes$ Stroke (option)	$\begin{array}{l} \text{101.6 mm} \times \text{167 mm} \\ \text{3.99 in} \times \text{6.6 in} \end{array}$



Axles

Front

Rear

Fixed Oscillating ±12°

Brakes

Standards

Meet OSHA regulations

Cab

ROPS/FOPS

Meet SAE and ISO standards

- Cat cab and Rollover Protective Structure/Falling Object Protective Structure (ROPS/FOPS) are standard in North America, Europe and Japan.
- ROPS meets SAE J394, SAE 1040 APR88 and ISO 3471-1986 standards.
- FOPS meets SAE J231 JAN81 and ISO 3449-194 standards.

Sound Performance

Standards

Meet required sound standards

- The operator exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT98 is 78 dB(A), for the cab offered by Caterpillar, when properly installed, maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.
- The exterior sound pressure level for the standard machine measured at a distance of 15 m (49.2 ft) according to the test procedures specified in SAE J88 JUN86 mid-gear-moving operation is 80 dB(A).
- The sound power level is 111 dB(A) measured according to the dynamic test procedure and conditions specified in ISO 6395:1988/Amd. 1:1996 for a standard machine configuration.

Blades

Moldboard Length	3652 mm	11 ft 12 in
Height, Including Cutting Edge	860 mm	2 ft 10 in
Maximum Depth of Cut	215 mm	9 in
Maximum Lift Above Ground	814 mm	2 ft 9 in
Blade Tip Angle – Total	59.2°	
Blade Tilt Angle – Right – Mechanical	6.5°	
Blade Tilt Angle – Left – Mechanical	5.4°	
Width Over End Bits	3761 mm	12 ft 4 in

Weights

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Operating Weight	20 755 kg	45,765 lb

Service Refill Capacities

Fuel Tank	446 L	117.8 gal
Cooling System	55 L	14.5 gal
Crankcase	34 L	9 gal
Transmission	50 L	13.2 gal
Differentials and Final Drives – Front	65 L	17.1 gal
Differentials and Final Drives – Rear	65 L	17.1 gal
Hydraulic Tank	88 L	23.2 gal

Dimensions

Height to Bottom of Ladder	463 mm	1 ft 7 in
Width Over End Bits	3791 mm	12 ft 5 in
Width Over Drums	3243 mm	10 ft 8 in

Operating Specifications

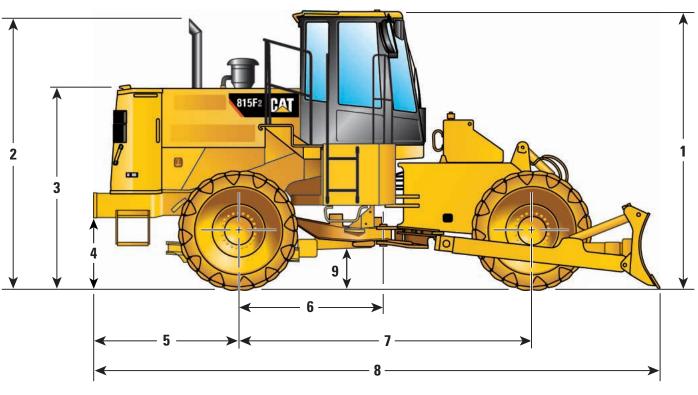
Turning Radius Blade – Outside	6452 mm	21 ft 3 in
Turning Radius Blade – Inside	2967 mm	9 ft 9 in

Shipping Specifications

Weight	20 345 kg	44,853 lb
Height	3347 mm	11 ft
Width	3652 mm	11 ft 12 in
Depth	6845 mm	22 ft 6 in

Dimensions

All dimensions are approximate.



1	Height to Top of Cab	3347 mm	10 ft 12 in
2	Height to Top of Exhaust Pipe	3225 mm	10 ft 7 in
3	Height to Top of Hood	2395 mm	7 ft 11 in
4	Height to Rear Bumper	770 mm	2 ft 7 in
5	Center Line of Rear Axle to	1871 mm	6 ft 2 in

6	Center Line of Rear Axle to Hitch	1675 mm	5 ft 6 in
7	Wheelbase	3350 mm	10 ft 12 in
8	Length with Blade on Ground	6845 mm	22 ft 6 in
9	Ground Clearance	390 mm	1 ft 4 in

Edge of Rear Bumper

Standard Equipment

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

ELECTRICAL Alarm, backup Alternator (80 amp) Batteries, maintenance-free (2) Diagnostic connectors Lighting system, halogen (front, rear and cab-mounted) Starting and charging system (24-volt) Starting receptacle for emergency starts **OPERATOR ENVIRONMENT** Blade control system locks Cab, pressurized and sound suppressed (ROPS/FOPS) includes antenna, speakers and converter (12-volt, 10-15 amp) Coat hook Cigar lighter and ashtray Caterpillar Monitoring System Instrumentation, Gauges Engine coolant temperature Fuel level Hydraulic oil temperature Speedometer/Tachometer Transmission oil temperature Instrumentation, Warning Indicators Air inlet temperature Brake oil pressure Electrical system, low voltage Engine oil pressure Engine over-speed Fuel filter status Parking brake status Steering oil pressure Transmission filter status Dome light (cab) Fuses, blade style (in-cab) Heater and defroster Horn, electric (steering wheel mounted) Hydraulic steering Lunchbox and beverage holders Mirrors, rearview (interior mounted) Seat, mechanical suspension Seat belt, retractable, 76 mm (3 in) wide Steering column, adjustable Wet-arm wipers/washers (front and rear) Intermittent front wiper

POWER TRAIN Brakes, fully hydraulic, enclosed, wet-disc Engine, Cat[®] C9 ACERTTM Fuel priming pump Muffler Radiator, Next Generation Modular (NGMR) Starting aid (ether) Torque converter Transmission, planetary (3 forward/3 reverse speeds) Electronic Clutch Pressure Control OTHER STANDARD EQUIPMENT Cat O-ring face seals/couplings XTTM hoses Cleaner bars Guards Crankcase Power train Parking brake Radiator Drive shaft Hood, metallic with lockable service doors Hitch, drawbar with pin Hydraulic oil cooler Oil sampling valves Trunnion Tamper wheels Vandalism protection caplocks **BULLDOZERS** Bulldozer blade, hydraulics and linkage are not included in standard equipment ANTIFREEZE Premixed 50 percent concentration of Extended Life Coolant with freeze protection to -34° C (-29° F)