



Cat[®] 815K

Soil Compactor

Operator Comfort

- Improved ingress/egress with a totally redesigned cab with flip up armrest.
- Keep your operators informed about machine conditions and operation with VIMS™ 3G machine monitoring system.
- Safety and visibility enhanced with optional rearview camera.
- Preferred temperature settings maintained with automatic climate control.
- Operator productivity enhanced with new membrane switch panels, keyed ignition and E-H parking brake switch.
- Improved comfort with low operator sound levels.
- Improved spectator sound levels and optional low sound packages.

Serviceability

- Easier access and in a controlled environment, electronics bay is located inside the cab.
- Focused on safety with ground level or platform access to most major components.
- Ground level: emergency shutdown, battery disconnect, and jump start.
- Quick visual inspection and minimize fluid contamination with sight gauges for coolant, transmission, and hydraulic oil.
- Electronic air inlet restriction indicator.
- Designed for ease of service and inspection.
 - Hydraulic oil cooler, fuel cooler and condenser grouped together
 - Centralized grease points
- Operators and technicians can resolve any problems before failure using Vital Information Management System VIMS.

Productivity and Efficiency

- Powerful, responsive, fuel-efficient Cat[®] 7.1 engine with ACERT™ Technology.
- Reliable performance, long life, low emissions.
- High productivity and excellent fuel efficiency.
- Two engine options available that meet U.S. EPA Tier 4 Final/ EU Stage IV emission standards or U.S. EPA Tier 3/EU Stage IIIA equivalent emission standards.
- For the Tier 4 Final/Stage IV option, the Cat Clean Emissions Module contains a Diesel Oxidation Catalyst, Diesel Particulate Filter and Cat Regeneration System, utilizing SCR technology.
- Regeneration is completely automatic and does not interrupt the machine's work cycle.
- Experience maximum responsiveness and control with Steering and Transmission Integrated Control System (STIC™).
- Conserve more fuel with the automatic engine and electrical system shutdown.
- Achieve greater momentum on grades and fuel savings by carrying that momentum through the shift points with the all new Advanced Productivity Electronic Control System (APECS) transmission controls.
- Operators experience less fatigue with throttle lock to maintain engine speed.

Cat CONNECT Technology

- COMPACT technology combines advanced compaction measurement, in-cab guidance and reporting capabilities to help you consistently meet compaction targets fast, uniformly, and in fewer passes – saving on fuel and the cost of unnecessary rework.
 - Optional 3D mapping system available
- LINK technology (standard) provides access to machine location, hours, fuel consumption, idle time, events, and diagnostic codes through the online VisionLink[®] interface.
- DETECT technology, like the rear vision camera, help keep people and equipment safe by enhancing operator awareness of the work area.



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Engine

Engine Model	Cat C7.1 ACERT: configured for two emissions options	
Tier 4 Final/Stage IV		
Rated Power (SAE J1349)	185 kW	248 hp
Rated Power (Net ISO 9249)	185 kW	248 hp
Gross Power (SAE J1995)	212 kW	284 hp
Gross Power (ISO 14396)	204 kW	274 hp
Maximum Net Torque @ 1,400 rpm	1219 N·m	899 lbf-ft
Torque Rise	52%	
Tier 3/Stage IIIA equivalent		
Rated Power (SAE J1349)	186 kW	249 hp
Rated Power (Net ISO 9249)	186 kW	249 hp
Gross Power (SAE J1995)	213 kW	286 hp
Gross Power (ISO 14396)	205 kW	275 hp
Maximum Net Torque @ 1,400 rpm	1016 N·m	749 lbf-ft
Torque Rise	26%	
Tier 4 Final/Stage IV and Tier 3/Stage IIIA equivalent		
Maximum Altitude without Derating	3000 m	9,842.52 ft
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Displacement	7.01 L	427.8 in ³

Transmission

	Forward		Reverse	
First	6.7 km/h	4.2 mph	7.7 km/h	4.8 mph
Second	12 km/h	7.5 mph	13.7 km/h	8.5 mph
Third	21.2 km/h	13.2 mph	24.2 km/h	15 mph

Hydraulic System

Main Relief Pressure	22 000 kPa	3,190 psi
Lift Cylinder, Double-acting: Bore and Stroke	101.6 mm × 627 mm	4 in × 24.7 in
Tilt Cylinder, Double-acting: Bore and Stroke	101.6 mm × 167 mm	4 in × 6.6 in
Steering System – Circuit	Closed Center Load Sensing	
Vehicle Articulation	Angle 84°	

Axles

Front	Rear	Oscillation Angle
Planetary – Fixed	Planetary – Oscillating	±10°

Wheels and Tips

Outside Diameter		Drum Diameter		Drum Width	
1412 mm	4 ft 8 in	1029 mm	3 ft 5 in	991 mm	3 ft 3 in

Service Refill Capacities

Cooling System – Tier 4 Final/Stage IV	81 L	21.4 gal
Cooling System – Tier 3/Stage IIIA equivalent	73 L	19.3 gal
Engine Crankcase	20 L	5.3 gal
Transmission	56 L	14.8 gal
Fuel Tank	500 L	132.1 gal
Diesel Exhaust Fluid Tank (Tier 4 Final/Stage IV only)	16 L	4.2 gal
Differentials and Final Drives – Front	65 L	17.2 gal
Differentials and Final Drives – Rear	65 L	17.2 gal
Hydraulic Tank Only	75 L	19.8 gal

• All non-road Japan 2014 (Tier 4 Final) diesel engines are required to use:

- Ultra Low Sulfur Diesel (ULSD) fuels containing 10 ppm for Japan (mg/kg) sulfur or less. Biodiesel blends up to B20 are acceptable when blended with ULSD and when the biodiesel feedstock meets ASTM D7467 specifications.
- Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specifications are required.
- Diesel Exhaust Fluid (DEF) that meets all requirements defined in ISO 22241-1.

Maximum Operating Weight

Tier 4 Final/Stage IV	Tier 3/Stage IIIA equivalent
22 386 kg	49,353 lb
22 108 kg	48,740 lb

Dimensions

Height to Top of Beacon	3946 mm	12 ft 11.3 in
Height to Top of Exhaust Pipe	3344 mm	10 ft 11.7 in
Height to Top of Hood	2566 mm	8 ft 5.0 in
Ground Clearance to Bumper	665 mm	2 ft 2.2 in
Center Line of Rear Axle to Bumper	1990 mm	6 ft 6.3 in
Hitch to Center Line of Front Axle	1675 mm	5 ft 6.0 in
Wheelbase	3350 mm	10 ft 11.9 in
Length with Blade on Ground	7157 mm	23 ft 5.8 in
Ground Clearance	375 mm	1 ft 2.8 in
Width over Wheels	3243 mm	10 ft 7.7 in
Height to Top of Cab Roof	3650 mm	11 ft 11.7 in
Turning Radius – Inside of Push Arms	2520 mm	8 ft 3.2 in
Width Over End Bits	3761 mm	12.34 ft
Maximum Depth of Cut	222 mm	0.73 ft
Maximum Lift Above Ground	802 mm	2.63 ft

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