825K **Soil Compactor**





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Engine Model

Emissions

Tier 3/EU Stage IIIA equivalent

emission standards

Gross Power Maximum Net Torque @ 1,300 rpm

Cat® C15 ACERT™

Meets U.S. EPA Tier 4 Final/EU Stage IV emission standards or meets U.S. EPA

324 kW 435 hp 2005 N·m 1,478.8 lbf-ft **Operating Specifications**

Operating Weight (Tier 4 Final/ 35 528 kg 78,326 lb Stage IV)

Operating Weight (Tier 3 Final/ 35 081 kg 77,340 lb Stage IIIA equivalent)

825K Soil Compactor Specifications

Engine		
Engine Model	Cat C15 ACERT	
Emissions	Tier 4 Final/Stage IV Final or Tier 3/Stage IIIA equivalent	
Rated Power (Net SAE J1349)	302 kW	405 hp
Rated Power (Net ISO 9249)	302 kW	405 hp
Gross Power	324 kW	435 hp
Net Power		
Direct Drive – Gross Power	307 kW	412 hp
Direct Drive – Torque Rise	33%	
Converter Drive – Gross Power	324 kW	435 hp
Converter Drive – Torque Rise	8.5%	
Maximum Net Torque @ 1,300 rpm	2005 N·m	1,478.8 lbf-ft
Maximum Altitude without Derating (Tier 4 Final/Stage IV)	2834 m	9,298 ft
Maximum Altitude without Derating (Tier 3 Final/Stage IIIA equivalent)	2773 m	9,098 ft
Bore	137.2 mm	5.4 in
Stroke	171.4 mm	6.7 in
Displacement	15.2 L	927.6 in ³
High Idle Speed	2,300 rpm	
Low Idle Speed	800 rpm	
Operating Specifications		

Operating Specifications		
Maximum Operating Weight (Tier 4 Final/Stage IV)	35 528 kg	78,326 lb
Maximum Operating Weight (Tier 3 Final/Stage IIIA equivalent)	35 081 kg	77,340 lb

Transmission			
Transmission Type	Planetary – l ECPC	Planetary – Powershift – ECPC	
Travel Speeds			
Forward – First	5.5 km/h	3.4 mph	
Forward – Second	9.7 km/h	6.0 mph	
Forward – Third	17.2 km/h	10.7 mph	
Reverse – First	6.2 km/h	3.9 mph	
Reverse – Second	11.1 km/h	6.9 mph	
Reverse – Third	19.7 km/h	12.2 mph	

Hydraulic System		
Pump Flow at 1,800 rpm	117 L/min	30.9 gal/min
Main Relief Pressure	24 100 kPa	3,495 psi
Maximum Supply Pressure	24 100 kPa	3,495 psi
Cylinder, Double-acting: Lift, Bore and Stroke	120 mm × 1070 mm	4.7 in × 42.1 in
Cylinder, Double-acting: Tilt, Bore and Stroke	95.25 mm × 216 mm	3.75 in × 8.5 in

Service Refill Capacities		
Cooling System	116 L	30.6 gal
Engine Crankcase	34 L	9.0 gal
Transmission	66 L	17.4 gal
Fuel Tank	782 L	206.6 gal
Diesel Exhaust Fluid Tank (Tier 4 Final/Stage IV)	32 L	8.5 gal
Differentials and Final Drives – Front	100 L	26.4 gal
Differentials and Final Drives – Rear	110 L	29.1 gal
Hydraulic Tank Only	134 L	35.4 gal

- All non-road Tier 4 Final and Stage IV diesel engines are required to use:
- Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm (mg/kg) sulfur or less. Biodiesel blends up to B20 are acceptable when blended with 15 ppm (mg/kg) sulfur or less ULSD and when the biodiesel feedstock meets ASTM D7467 specifications.
- Cat DEO-ULSTM 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.

Front	Dlanatamy Fixed
FIOIIL	Planetary – Fixed
Rear	Planetary – Oscillating
Oscillation Angle	±8°
Brakes	

Parking Brake

Drum and Shoe,
Spring Applied,
Hydraulic Released

825K Soil Compactor Specifications

Cab			
	Standard	Suppression	
Operator Sound Level (ISO 6396)	73 dB(A)	72 dB(A)	
Machine Sound Level (ISO 6395)	113 dB(A)	110 dB(A)	
Hydraulic System – Steering			
Steering System – Circuit		Double Acting – End Mounted	
Bore	114.3 mm	4.5 in	
Stroke	576 mm	22.7 in	
Steering System – Pump		Piston – Variable Displacement	
Maximum System Flow	170 L/min @ 1,800 rpn	44.9 gal/min n @ 1,800 rpm	
Steering Pressure Limited	24 000 kPa	3,481 psi	
Vehicle Articulation Angle	86 degrees		

Blades		
Moldboard Length	4390 mm	14.4 ft
Height Including Cutting Edge	1032 mm	3.4 ft
Maximum Depth of Cut	602 mm	1.97 ft
Maximum Lift Above Ground	958 mm	3.14 ft
Blade Tip Angle – Total	14.8°	
Blade Tip Angle – Forward	7.3°	
Blade Tip Angle – Back	7.5°	
Blade Tilt Angle – Right – Mechanical	5.1°	
Blade Tilt Angle – Left – Mechanical	4.1°	
Blade Tilt Angle – Right – Hydraulic	6.3°	
Blade Tilt Angle – Left – Hydraulic	5.4°	
Blade Tilt Angle – Right Full	10.8°	
Blade Tilt Angle – Left Full	10.1°	
Total Tilt Adjustment	890 mm	2.9 ft
Width Over End Bits	4628 mm	15.18 ft
Wheels		
Weight	7333 kg	16,167 lb
Outside Diameter	1672 mm	5 ft 5.8 in
Drum Diameter	1299 mm	4 ft 3.1 in
Drum Width	1125 mm	3 ft 8.3 in
Tips per Wheel	65	
Width over Drums	3650 mm	11 ft 11.7 in

825K Soil Compactor Specifications

Dimensions

All dimensions are approximate.

