

825K SOIL COMPACTOR

Walk Around

KEY FEATURES AND BENEFITS

- **COMFORT:** New operator station
- **CAT CONNECT:** Cat® Compaction Control
- **PRODUCTIVITY/EFFICIENCY:** Autoshift and STIC™ steering
- **SAFETY/SERVICEABILITY:** Improved machine access
- **POWERTRAIN:** Cat C15 ACERT™ Engine

SAFETY, COMFORT & ERGONOMICS

- New angled stairway with lighting provides safe accessibility to the cab and key service points.
- Continuous pass-through with handrails and non-skid surfaces with toe kicks.
- Standard cab mounted LED warning strobes .
- All new, redesigned operator station with customer-inspired features.
 - Fold up STIC steer/armrest for improved ingress/egress.
 - Operator fatigue reduced with Cat Comfort Series III Seat with 3 inch (76 mm) retractable seatbelt.
 - Preferred temperature settings maintained with automatic climate control.
 - Reduced vibrations from isolation cab mounts and air seat suspension.
 - Easy-to-reach seat levers and controls for six way adjustments.
 - Seat-mounted implement pod and STIC steer that moves with the seat.
 - Ergonomic dash with information display and new large backlight membrane switch panel that features. LED activation indicators and ISO symbols for quick function identification.
 - Two position rocker switch activates electro-hydraulic park brake.
 - Pressurized cab with filtered air and reduced operator/spectator sound levels.
 - Convenient floor storage tray/lunch box.
 - Optional rearview camera with in-cab monitor increases operator awareness around the machine.

CAT CONNECT TECHNOLOGIES

- **COMPACT Technologies:** Factory Cat Compaction Control system using Machine Drive Power (MDP)
 - Caterpillar proprietary intelligent compaction system
 - Measures rolling resistance through Machine Drive Power (MDP) and correlates well with soil stiffness
 - Less variable than other soil compactor measurement technologies
 - Accurate representation of “Proof Rolling”
 - Factory basic system utilizes the standard machine display
 - Indicates soil stiffness to operator
 - Scalable to a full 3D AccuGrade CCS900 mapping system
 - Software activated feature enables “try it before you buy it” 100 hr demo period
 - Optional 3D mapping system
 - Maps compaction measurements to a precise location
 - Real-time view of progress and record fo compaction uniformity
 - Off-board, post-processing of data with VisionLink™ 3D productivity subscription
- **LINK Technologies:** Cat Product Link™
 - Standard, giving access to timely information like machine location, hours, fuel usage, idle time and event codes via the online VisionLink™ user interface that helps effectively manage fleet and lower operating costs.



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SERVICEABILITY

- Swing-out doors on both sides of the engine compartment provide easy access to important daily service check. Engine Oil, Primary Filter (Water Separator).
- Electronics bay is located inside the cab, providing easier access and in a controlled environment
- Ecology drains for ease of service and prevention of spills.
- Quick visual inspection and minimized fuel contamination with sight gauges for coolant, transmission and hydraulic oil.
- Centralized grease points.
- Swing out fuel, hydraulic oil coolers and condenser for easy access cleanout.
- Electronic air inlet restriction indicator, eliminating visual filter inspections.
- Ground level power service center with electrical disconnect, emergency engine shutdown, and stairway light switch.
- Improved ground level or platform access and improved visibility to service points with lighted engine compartment.
- VIMS™ system notifications so operators and technicians can resolve problems before failure.

EFFICIENCY & PRODUCTIVITY

- 12-hour minimum fuel tank capacity, depending upon the application.
- Throttle lock maintains engine speed reducing operator fatigue.
- Autoshift mode, when active, allows the machine to automatically upshift or downshift based on machine speed and torque, optimizing performance and saving fuel. This feature can easily be enabled or disabled on the soft keypad.
- Decelerator pedal: left pedal acts as a brake, transmission neutralizer and an engine decelerator to override the engine speed selected by the throttle lock. This enables the operator to slow down when the throttle lock is engaged and to return to throttle lock without pressing a resume or set button again. This aids in maneuvering around trucks, tractors or any other obstacle.
- Directional selection, gear selection and steering is combined into a single lever, known as Steering and Transmission Integrated Control System (STIC™), that provides maximum responsiveness and control.
- Load sensing hydraulic steering system enables confident machine operation with 43° articulation angle for precise positioning in tight areas.

POWERTRAIN

- Cat Planetary Powershift Transmission
 - All new Single Clutch Speed Shifting (SCSS) transmission controls provides greater momentum on grades and fuel savings by carrying that momentum through the shift points. Three forward and three reverse speeds to match the application.
 - Long life and reliability through heat treat gear and metallurgy.
- Cat Torque Converter (TC) with Lock-up Clutch
 - Eliminates TC losses while lowering system heat.
 - Improved travel speeds and increased fuel efficiency, transferring more power to the ground.
- Cat C15 ACERT™ Engine
 - Two engine options are available that meet Tier 4 Final/Stage IV emission standards or Tier 3/Stage IIIA equivalent emission standards.
 - Fully integrated electronic engine controls works in concert with the entire machine to make fuel go farther.
 - Use less fuel idling with Engine Idle Shutdown and maximized durability with Delayed Engine Shutdown.
 - Tier 4 Cat Clean Emissions Module contains Diesel Oxidation Catalyst, Diesel Particulate Filter and Cat Regeneration System, utilizing selective catalytic reduction (SCR) technology.
 - Regeneration is completely automatic and does not interrupt the machine's work cycle.

TAMPING WHEELS & TIPS

- Chevron tamping tip design provides greater ground pressure, more compaction, excellent traction and a smooth ride.
- Symmetrical Tamping Tip Pattern: Equal compaction in forward or reverse is the result of the symmetrical tamping tip pattern. Tips are full perimeter and replaceable. The tip is welded to a base assembly, which then is welded directly to the drum.
- Cleaner Bars: Each wheel has two cleaner bars to keep the drums free of carryover dirt, regardless of rolling direction so efficiency is maximized.
- Adjustable Cleaner Bar Tip: The adjustable cleaner bar tips are heat-treated and direct hardened, cutting edge steel to increase wear life, which translates into lower operating costs.