816 LANDFILL COMPACTOR

Engine Power Operating Weight

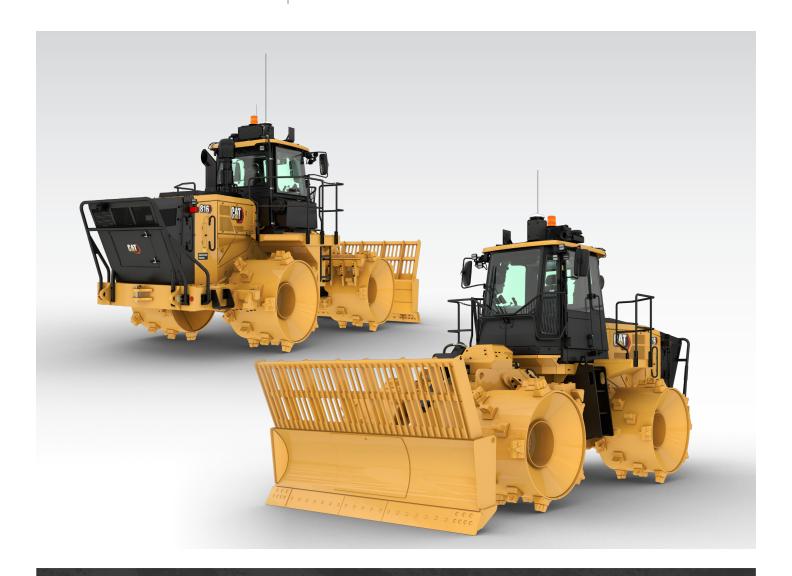
205 kW (275 hp) 26 052 kg (57,345 lb)¹ 205 kW (275 hp) 25 761 kg (56,793 lb)²



Purpose-built for landfill operation, the Cat® 816 delivers performance and efficiency that come from proven engineering and advanced new features. Field-proven protection and integrated technologies provide peak availability and optimized landfill performance.

THE NEW CAT® 816

HELPING YOU CRUSH IT



IMPROVED UPTIME AND OPERATOR COMFORT WITH MAXIMIZED COMPACTION

The new Cat 816 Landfill Compactor gives you advanced technology for increased efficiency, a tough and long-lasting machine, lower maintenance costs, and reduced operator fatigue.

- + IMPROVED GUARDING AND STRUCTURAL ENGINEERING PROTECT YOUR INVESTMENT
- + NEW DESIGN FEATURES REDUCE TIME SPENT ON MAINTENANCE AND INCREASE MACHINE LIFE
- + FROM STEERING CONTROLS TO CLIMATE CONTROL, THE UPDATED CAB DESIGN INCREASES PRODUCTIVITY



IMPROVED **GUARDING**

New features such as new frame guards and service doors protect the machine from trash intake and other onsite hazards.

REDUCE MAINTENANCE BY UP TO 12%

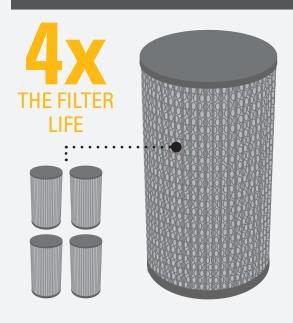
Grouped servicing points, redesigned access, and a long-lived new filtration system reduce your labor costs and downtime.

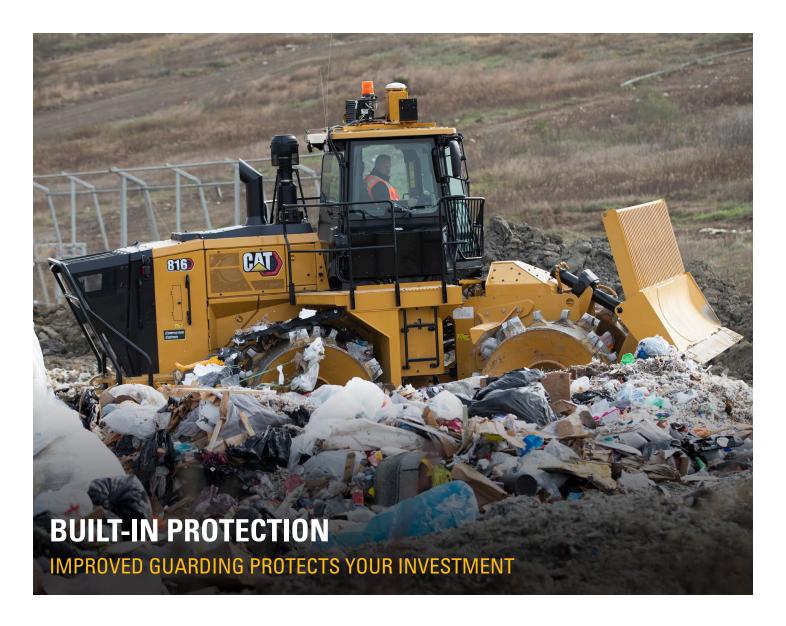
GREATER OPERATOR COMFORT AND PRODUCTIVITY

Cab pressurization, climate control, sound dampening, and isolation mounts make the entire workday comfortable, while Cat's Steering and Transmission Integrated Control (STIC $^{\text{TM}}$) system reduces fatigue and cycle time.

BREATHING **EASIER**

THE 816'S NEW RADIAL AIR FILTER DESIGN PROVIDES







NEW FRAME GUARDS

Front frame guards prevent trash buildup inside the frame, and protect components and hydraulic lines. New frame deflectors divert trash away from the frame and hood enclosure, alleviating potential damage.



STRONG SERVICE DOORS

Robust service doors with a new captive hinge design prevent unintentional opening and, therefore, protect interior components against contamination.



BELLY GUARDS

Sealed belly guards provide additional protection to prevent trash intake into frames.



STRIKER BARS

Striker bars and optional cleaner fingers help to keep wheels free of debris, making compaction more efficient.



SCREENED AIR INLET

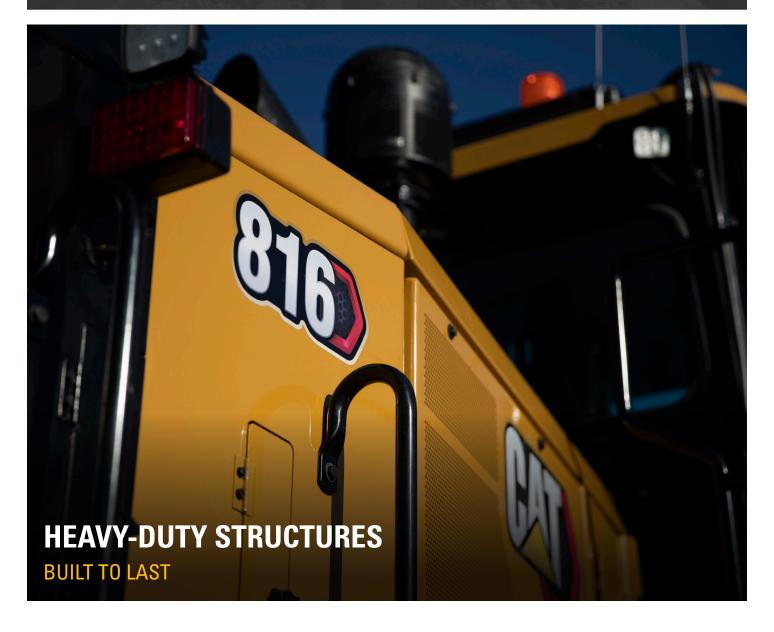
The guarding diverts trash away from key components and service areas on the machine, ensuring less failures due to the severity of the landfill environment.

A screen prevents trash from entering the radiator area, maintaining proper airflow and allowing for debris to fall off.

ROBUST STRUCTURES

The 816 features heavy-duty main structures that support multiple life cycles.

- + BOX-SECTION REAR FRAME RESISTS TORSIONAL SHOCK AND TWISTING
- + HEAVY-DUTY STEERING CYLINDER MOUNTS EFFICIENTLY TRANSMIT STEERING LOADS INTO THE FRAME
- + AXLE MOUNTING IS OPTIMIZED FOR GREATER STRUCTURAL INTEGRITY



EASY MAINTENANCE

REDUCING MAINTENANCE BY UP TO 12%

EASY TO SERVICE

Access to the emergency shutdown, battery disconnect, and jump start are at ground level. Coolant, transmission oil, and the hydraulic system are all equipped with sight gauges for quicker inspection and reduced contamination risk. The hydraulic oil cooler, fuel cooler, and condenser are grouped together, and grease points are centralized.



EASIER ELECTRONICS ACCESS

The 816's electronics bay is now accessible from inside the cab. This configuration is not only easier, but allows access in a climate-controlled environment.



IMPROVED AIRFLOW TECHNOLOGY

The radial air filter provides four times the previous filter life, and a new electronic air inlet restriction indicator alerts the operator to any airflow blockages.



DEBRIS PURGING FAN

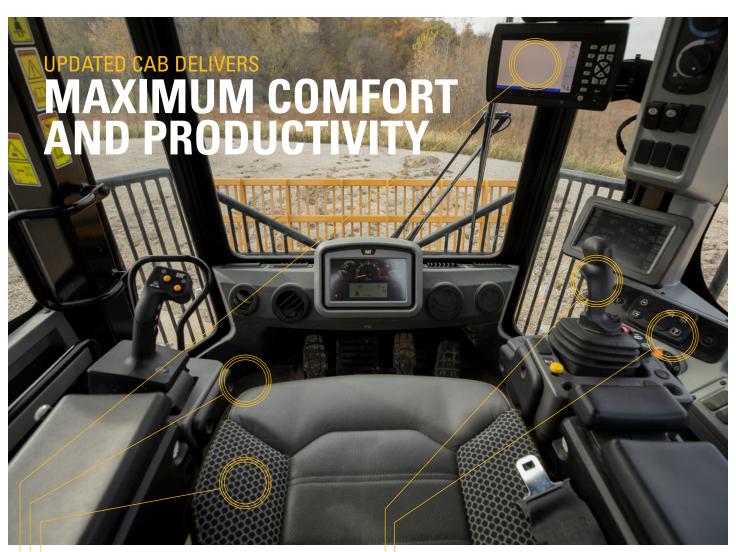
An auto-reversing fan purges debris buildup. The fan can also be activated manually.



ENHANCED OPERATOR COMFORT

COMFORT WHERE IT COUNTS







PREMIUM PLUS SEAT

The Premium Plus seat delivers total comfort throughout the workday. Standard features include leather finish, forced air heating and cooling, two-way thigh adjustment, power lumbar and back bolster adjustment, and dynamic end dampening. The seat also features a flip-up armrest for easier ingress/egress.



CONVENIENT STORAGE

Cab features a convenient floor storage tray/ lunch box, keeping the workstation clutter free.



ACCESS VITAL INFORMATION

Keep your operators informed about machine conditions and operation with the Vital Information Management System (VIMS $^{\text{TM}}$) 3G machine monitoring system.



EASIER CONTROLS

Operator productivity has been enhanced with membrane switch panels, keyed ignition, and electro-hydraulic parking brake control switch.



SINGLE-STICK CONTROL

Easier control and shorter, faster cycles reduce operator fatigue and increase efficiency. The STIC system combines steering, gear selection, and more into a single lever. Steering is accomplished with small side-to-side inputs, and gear changes are controlled with the fingers.

PRODUCTIVE TECHNOLOGY

HELPING YOU DO MORE



CAT COMPACT

Cat Compact combines in cab-guidance and reporting capabilities to help you consistently achieve higher compaction densities. Visually see where the machine has been on the working face and how many passes have been completed – saving on fuel and machine wear and tear.



ACCESS VITAL INFORMATION

A 3G touchscreen with user-friendly interface allows operators to monitor real-time machine performance and operating data with the VIMS system.



IMPROVED EQUIPMENT MANAGEMENT

Cat Link technology provides access to machine location, hours, fuel consumption, idle time, events, and diagnostic codes through the online VisionLink® interface.



PROVEN POWER

The Cat 7.1 engine is designed for maximum fuel economy and increased power density, delivering reliable performance, and low emissions. Two engine options are available, meeting U.S. EPA Tier 4 Final/EU Stage V emission standards or emitting equivalent to U.S. EPA Tier 3/EU Stage IIIA.

SMOOTH POWER

Advanced Productivity Electronic Control System (APECS) transmission controls deliver improved shifting performance and a higher level of comfort for operators. APECS allows you to achieve greater momentum on grades and save fuel by carrying that momentum through the shift points.

FUEL-SAVING CONTROLS

Automatic engine and electrical system shutdown controls save even more fuel by reducing unnecessary idling. Throttle lock reduces fuel burn further by maintaining constant speed and also reduces operator fatigue.

MULTI-CONTROL PEDAL

The decelerator pedal acts as a brake, transmission neutralizer, and an engine decelerator to override the engine speed selected by the throttle lock. This allows you to slow down the machine when the throttle lock is engaged and to return to the throttle lock setting without any hand control inputs such as pressing a resume or set button.

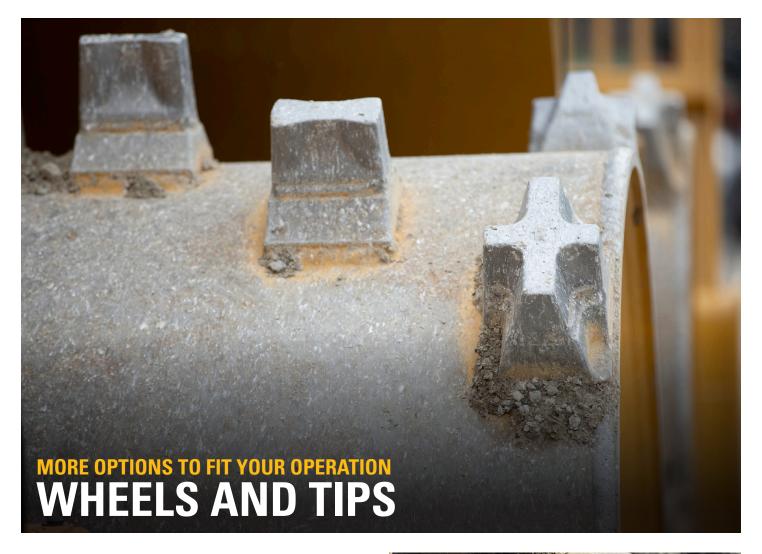
PRECISE STEERING

Variable displacement piston pumps give you precise positioning and easy maneuvering in tight areas, with 42° articulation in each direction. A load-sensing system provides confident machine operation and adds to the precision of the steering. More precise steering results in shorter, more efficient cycles.

ELECTRO HYDRAULIC CONTROLS

Increase productivity with the 816's responsive implements feature. Easy-to-use soft-detent controls make operation comfortable.





TIP DESIGN

Designed specifically to complement Cat machines, choose Paddle or Plus design tips for better performance and traction.

OPTIONS TO FIT YOUR WORK

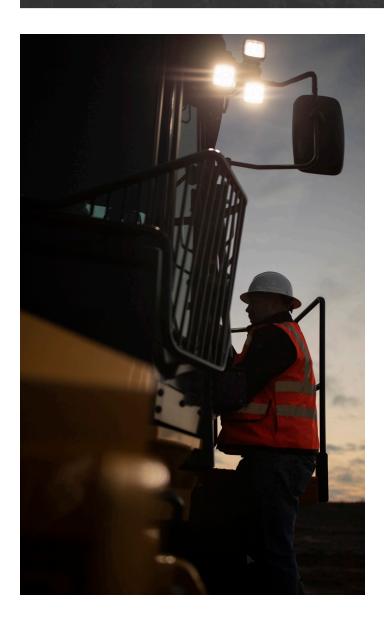
Choose the tip design that fits your operational needs:

- + SELECT PADDLE TIPS FOR TRACTION AND FUEL ECONOMY
- + SELECT PLUS TIPS FOR INCREASED SIDE-SLOPE STABILITY
- + SELECT A COMBINATION OF BOTH TO OPTIMIZE PERFORMANCE AND FUEL ECONOMY WITH SIDE SLOPE STABILITY





PROTECTING YOUR TEAM SAFE DESIGN



INCREASED VISIBILITY

Backing is safer for operators and everyone onsite with a standard rearview camera. Standard cab-mounted LED warning strobes increase visibility of the machine, further reducing risk.

REDUCED SOUND

Low interior sound levels increase operator comfort, and spectator sound levels have been reduced. Optional low sound packages reduce the noise level even further.

SAFER ACCESS

Emergency shutdown controls are at ground level. Platform and ladders are designed to ensure three points of contact at all times during entry and exit.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE – TIER 3/STAGE IIIA EQUIVALENT				
Engine Model	Cat	C7.1		
Rated Speed	2,200	rpm		
Net Power (SAE J1349:2011)	186 kW	249 hp		
Net Power (ISO 9249:2007)	186 kW	249 hp		
Gross Power (SAE J1995:2014)	213 kW	286 hp		
Engine Power (ISO 14396:2002)	205 kW	275 hp		
Peak Torque @ 1,400 rpm	1016 N·m	749 lbf-ft		
Torque Rise 26%				
• Net power available at flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator with engine speed at 2,200 rpm.				

ENGINE – TIER 4 FINAL/STAGE	V			
Engine Model	Cat	C7.1		
Rated Speed	2,200	rpm		
Net Power (SAE J1349:2011)	186 kW	249 hp		
Net Power (ISO 9249:2007)	186 kW	249 hp		
Gross Power (SAE J1995:2014)	212 kW	284 hp		
Engine Power (ISO 14396:2002)	205 kW	275 hp		
Peak Torque @ 1,400 rpm	1223 N·m	902 lbf-ft		
Torque Rise	52	.%		
Bore	105 mm	4.1 in		
Stroke	135 mm	5.3 in		
Displacement	7.01 L	427.8 in ³		
High Idle Speed	2,270) rpm		
Low Idle Speed	800	rpm		
Maximum Altitude without Derating	3000 m	9,842.5 ft		
• Net power available at the flywheel when the engine is equipped with fan, air cleaner, aftertreatment, and alternator with engine speed at 2,200 rpm.				

an cleaner, arterneannem, and arternator with engine speed at 2,200 rpm.						
WEIGHTS						
Tier 4 Final/S	tage V			26 052 kg	57,345 lb	
Tier 3/Stage I	IIIA equivaler	25 761 kg	56,793 lb			
TRANSMISSION						
Transmission Type Cat Planetary Power Shift						
Forward 1	6.7 km/h	4.1 mph	Reverse 1	7.7 km/h	4.8 mph	
Forward 2	12.0 km/h	7.5 mph	Reverse 2	13.7 km/h	8.5 mph	
*Maximum u	nloaded spee	ed	•			

	AIR				_			 		
na	cyctor	n n	n th	ic	m	ach	inc	 nt	aine	th.

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.4 kg of refrigerant which has a ${\rm CO_2}$ equivalent of 2.002 metric tonnes.

HYDRAULIC SYSTEM - STEERING					
Steering System - Circuit	Pilot, Loa	Pilot, Load Sensing			
Steering System - Pump	Variable Displa	Variable Displacement Piston			
Max Flow @ 2,200 rpm	147 L/min	38.8 gal/min			
Relief Valve Setting - Steering	27 600 kPa	4,003 psi			
Total Steering Angle	8	4°			
Steering Cycle Time (high idle)	3.0	sec			
Steering Cycle Time (low idle)	8.2	sec			

	AXLES
Front	Planetary – Fixed
Rear	Planetary – Oscillating
Oscillation Angle	±6°

SOUND		
	Standard	Suppression
Operator Sound Level (ISO 6396:2008)	70	dBA
Tier 4 Final/Stage V		
Machine Sound Level (ISO 6395:2008)	111 dBA	109 dBA
Tier 3/Stage IIIA Equivalent		
Machine Sound Level (ISO 6395:2008)	112 dBA	110 dBA
a The amountour account muse account level core management		- 46 - 44

- The operator sound pressure level was measured according to the test procedures and conditions specified in ISO 6396:2008. The measurement was conducted at the maximum engine cooling fan speed.
- The operator sound pressure level uncertainty is $\pm 2 dB(A)$
- Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.
- The machine sound power level was measured according to the test procedures and conditions specified in ISO 6395:2008. The measurement was conducted at the maximum engine cooling fan speed.

WHE	LS	
Combination Tips		
Weight (Group)	6148 kg	13,554 lb
Plus Tips		
Weight (Group)	6342 kg	13,982 lb
Paddle Tips		
Weight (Group)	5954 kg	13,126 lb
Chopper Tips		
Weight (Group)	5733 kg	12,639 lb
Outside Diameter	1717 mm	67.6 in
Drum Diameter	1400 mm	55.1 in
Drum Width	1016 mm	40.0 in
Tips per Row	5	
Tips per Wheel	20)
Replaceable	Weld	l On
Width Over Drums	3338 mm	131.4 in
Tip Height	159 mm	6.25 in

STANDARD & OPTIONAL EQUIPMENT

Standard and optional equipment may vary. Consult your Cat dealer for details.

OPERATOR ENVIRONMENT	STANDARD	OPTIONAL
12V power port for mobile phone or laptop connection	•	-
Cat Compact Ready	•	
Air conditioner with roof-mounted condenser	•	
Cab, sound-suppressed pressurized	•	
Camera, rear vision	•	
Implement hydraulic lockout	•	
Instrumentation, gauges: DEF fluid level (Tier 4 Final/Stage V only), engine coolant temperature, fuel level, hydraulic oil temperature, speedometer/tachometer, torque converter temperature	•	
Instrumentation, warning indicators: action alert system – three categories, brake oil pressure, electrical system – low voltage, engine failure malfunction alert and action lamp, parking brake status	•	
Mirror, internal (panoramic)	•	
Mirrors, heated rearview (externally mounted)	•	
Radio, AM/FM/Aux/USB/Bluetooth		•
Radio, CB (ready)	•	
Radio ready for entertainment: antenna, speakers, converter (12V, 10-15 amp)	•	
Vital Information Management System (VIMS): graphical information display, external data port, customizable operator profiles, event indicator light on rear grill	•	
Wet-arm wipers/washers (front and rear): intermittent wipers (front and rear)	•	
POWER TRAIN	STANDARD	OPTIONAL
Brakes, full hydraulic, enclosed, wet multiple disc service brakes	•	
Cat clean emission module (Tier 4 Final/Stage V only)	•	
Electro hydraulic parking brake	•	
Engine, Cat C7.1 configured for two emissions options: Tier 4 Final/Stage V or Tier 3/Stage IIIA equivalent	•	
Fuel priming pump (electric)	•	
Fuel-to-air cooler	•	
Ground level engine shutoff	•	
Heater, engine coolant, 120V		•
Heater, engine coolant, 240V		•
Radiator, unit core	•	
Throttle lock	•	
Transmission, planetary with 2F/2R speed range control	•	

ELECTRICAL	STANDARD	OPTIONAL
Alarm, back-up	•	
Alternator, 150 amp	•	
Batteries, maintenance-free	•	
Electrical system, 24V	•	
Ground level lockable master disconnect switch	•	
Light, warning unswitched (LED strobe)	•	
Lighting system (front and rear)	•	
Starter, electric	•	
Starting receptacle for emergency start	•	
GUARDS	STANDARD	OPTIONAL
Guards, axle (front and rear)	•	
Guard, cab window	•	
Guards, crankcase and power train, hinged	•	
Guard, driveshaft	•	
Guard, radiator	•	
Striker bars	•	
FLUIDS	STANDARD	OPTIONAL
Antifreeze, -50° C (-58° F)		•
Antifreeze, premixed 50% concentration extended life (-34° C/-29° F)	•	
OTHER STANDARD EQUIPMENT	STANDARD	OPTIONAL
Engine erankasas E00 haur interval	•	
Engine, crankcase, 500 hour interval with CJ-4 oil		
	•	
with CJ-4 oil	•	
with CJ-4 oil Fuel tank, 500 L (132.1 gal) Hydraulic, engine, and transmission oil	•	



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