

329E L

Hydraulic Excavator



Engine

Engine Model	Cat® C7.1 ACERT™
Net Power – ISO 14396	179 kW (243 hp)

Drive

Maximum Travel Speed	5.1 km/h
Maximum Drawbar Pull	247 kN

Weight

Minimum Weight	28 717 kg
Maximum Weight	31 639 kg

Introduction

Since its introduction in the 1990s, the 300 Series family of excavators has become the industry standard in general, quarry, and heavy construction applications. The all-new E Series and the 329E L will continue that trend-setting standard.

The E Series meets U.S. Environmental Protection Agency (EPA) Tier 4 Interim emission standards, European Union Stage IIIB emission standards, and Japan MLIT Step 4 emission standards. The 329E L is also built with several new fuel-saving and comfort-enabling features and benefits that will delight owners and operators.

If you are looking for more productivity and comfort, less fuel consumption and emissions, and easier and more sensible serviceability, you will find it in the all-new 329E L and the E Series family of excavators.



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Engine

Reduced emissions, economical and reliable performance

Cat® C7.1 ACERT Engine

The Cat C7.1 ACERT engine delivers more horsepower using less fuel than the previous series engine.

Emissions Solution

The C7.1 ACERT engine is equipped to meet U.S. EPA Tier 4 emission standards and Stage IIIB emission standards. Driven by customer input, Caterpillar's aftertreatment regeneration solution ensures the machine works as normal with no operator intervention needed.

The machine comes with two modes of regeneration: automatic and manual.

In automatic mode, the machine starts the regeneration process once the filtering system reaches a certain level and conditions are optimal. The system will not interrupt the work process and can regenerate during machine operation.

Manual mode enables the operator to override the automatic mode.

Biodiesel-Ready Fuel System

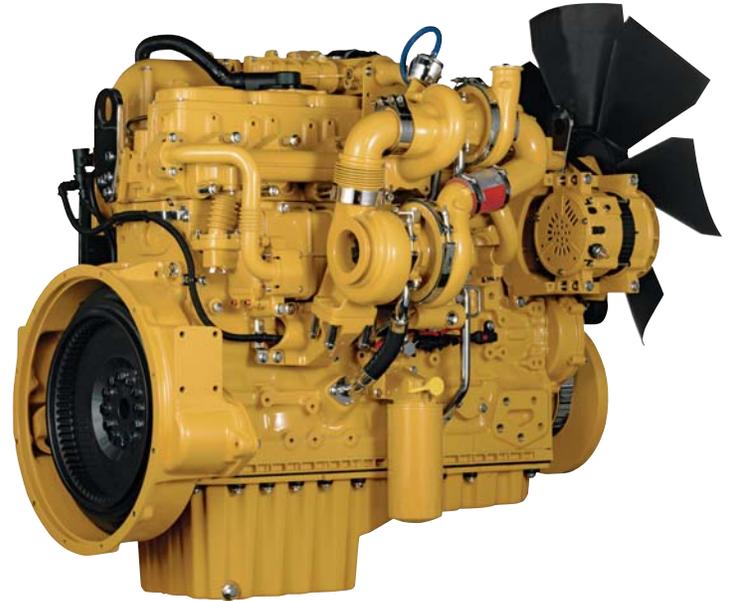
The C7.1 ACERT engine is equipped with an electronic-controlled high-pressure fuel system that includes an electric priming pump and three-layer fuel hose to allow the use of biodiesel (meeting ASTM 6751 or EN 14214) up to B20 (biodiesel 20% mixture).

Cooling System

The cooling system features side-by-side and tilt-out radiators, oil cooler and air coolers for easy cleaning and a fan that automatically adjusts to ambient temperatures to help reduce fuel consumption and noise.

Speed and Power Control

The E Series features speed control to maintain a constant speed – regardless of load – to improve fuel economy. Three different power modes are offered: high power, standard power, and economy power. The operator can easily change between modes through the monitor or console switch to meet the needs for the job at hand – all to help manage and conserve fuel.



Operator Station

Comfort and convenience to keep people productive



Seats

All seats include air suspension, heat, air cooling, a reclining back, upper and lower seat slide adjustments, and height and tilt angle adjustments to meet operator needs for comfort and productivity.

Controls

The right and left joystick consoles can be adjusted to meet individual preferences, improving operator comfort and productivity during the course of a day. With the touch of a button, one-touch idle reduces engine speed to help save fuel; touch it again or move the joystick and the machine returns to normal operating level. The heavy lift mode increases machine system pressure to improve lift – a nice benefit in certain situations. Heavy lift mode also reduces engine speed and pump flow in order to improve controllability.

Monitor

The 329E L is equipped with a 7" LCD (Liquid Crystal Display) monitor that's 40% bigger than the previous model's with higher resolution for better visibility. In addition to an improved keypad and added functionality, it's programmable to provide information in a choice of 42 languages to support today's diverse workforce.

An "Engine Shutdown Setting" accessible through the monitor allows owners and operators to specify how long the machine should idle before shutting down the engine, which can save significant amounts of fuel.

The image of the rearview camera is displayed directly on the monitor. Up to two different camera images can be displayed on the screen at the same time.

MP3-Ready Radio and Power Supply

The standard radio is equipped with a new auxiliary audio port for MP3 players. Two 12-volt power supply sockets are located near key storage areas for charging electronic devices.

Storage

Storage spaces are located in the front, rear, and side consoles. A specific space near the auxiliary power supply holds MP3 players and cell phones. The drink holder accommodates large mugs with handles, and a shelf behind the seat stores large lunch or toolboxes.

Automatic Climate Control

The climate control system features five air outlets with positive filtered ventilation, which makes working in the heat and cold much more pleasant.



Hydraulics

Power to move more dirt, rock, and debris with speed and precision

Hydraulic Horsepower

Hydraulic horsepower is the actual machine power available to do work through implements and work tools. It's much more than just the engine power under the hood – it's a core strength that differentiates Cat machines from other brands.

Main Control Valve and Auxiliary Valves

The 329E L uses a high-pressure system to tackle the toughest of work in short order. The machine features a highly efficient and simple back-to-back main control valve to improve fuel consumption and reliability. Also, shortened spool lengths and a built-in drift reduction valve have been added for greater controllability.

Swing Priority Circuit

The swing priority circuit on the 329E L uses an electric valve that's operated by the machine's Electronic Control Module (ECM). Compared to using a hydraulic valve, an electric valve allows for more finely tuned control, which is critical during material loading.

Electric Boom Regeneration Valve

This valve minimizes pump flow when the boom lowers, which helps improve fuel efficiency. It is optimized for any dial speed setting being used by the operator and results in less pressure loss for higher controllability, more productivity, and lower operating costs.



Structures and Undercarriage

Built to work in rugged environments

Frame

The upper frame (1) includes reinforced mountings to support the Roll-Over Protective Structure (ROPS) cab; the lower frame is reinforced to increase component durability.

Undercarriage

Fixed gauge standard and long undercarriage systems are available to support various work applications.

Heavy-duty track rollers, precision-forged carrier rollers (2), press-fit pin master joints, and enhanced track shoe bolts improve durability and reduce the risk of machine downtime and the need and cost to replace components.

A segmented three-piece guiding guard is now offered to help maintain track alignment and improve performance in multiple applications.

Counterweights

The counterweight (3) is a 5.8 mt unit, with a removal system featuring new integrated links which enable easy removal of the counterweight for maintenance or shipping.

Front Linkage

Made for high stress and long service life

Booms and Sticks

The 329E L is offered with a range of booms and sticks (see list below). Each is built with internal baffle plates for added durability, and each undergoes ultrasound inspection to ensure weld quality and reliability.

Large box-section structures with thick, multi-plate fabrications, castings, and forgings are used in high-stress areas such as the boom nose, boom foot, boom cylinder, and stick foot to improve durability.

The boom nose pin retention method is a durable captured flag design. Boom durability is improved with a number of plate thickness changes. Also, the front linkage pins' inner bearing surfaces are welded, and a self-lubricated bearing is used to extend service intervals and increase uptime.

Selections

There are two basic boom options: HD and ME. Sticks match the boom descriptions and applications below:

HD = Heavy Duty

This boom is designed to balance reach, digging force, and bucket capacity. It covers the vast majority of applications such as digging, loading, trenching, and working with hydraulic tools.

ME = Mass Excavation

This boom is best used for quarry, high-volume loading, and other demanding applications. Mass fronts provide higher digging forces due to the geometry of the boom and stick relationship. Bucket linkage and cylinders are also built for greater durability.



Work Tools

Dig, hammer, rip, and cut with confidence



An extensive range of Cat Work Tools for the 329E L includes buckets, hydraulic hammers, multi-processors, scrap and demolition shears, grapples, and rippers. Each is designed to optimize machine versatility and performance.

Quick Couplers

Quick couplers allow one person to change work tools in seconds for maximum performance and flexibility on a job site. One machine can move rapidly from task to task, and a fleet of similarly equipped machines can share a common work tool inventory.

Cat Center-Lock™ Pin Grabber Coupler

Center-Lock is the pin grabber style coupler featuring a patented locking system. A highly visible lock clearly shows the operator when the coupler is engaged or disengaged from the bucket or work tool.

Buckets

Cat buckets are designed as an integral part of the 329E L system and feature new geometry for better performance. The leading edge has been pushed forward, resulting in more efficient filling and better operator control for greatly improved productivity. Wear coverage in the corners and side cutter and sidebar protector coverage are improved. All benefits are captured in a new bucket line with a new bucket naming convention. Following are the types offered:

Caterpillar offers standard bucket categories for excavators. Each category is based on intended bucket durability when used in recommended application and material. Buckets are available as pin-on or can be used with a quick coupler.

Two Durability Categories Suitable for Any Situation

Caterpillar offers two standard bucket categories for excavators. Each category is based on intended bucket durability when used in recommended applications and material. Each bucket durability type is available as pin-on or can be used with a Quick Coupler. Red areas on bucket images illustrate additional protection against wear as it increases across each category.

Heavy Duty (HD)

The most popular bucket style, HD buckets are a good starting point when digging conditions are not well known like a wide range of impact and abrasion conditions that include mixed dirt, clay, and rock.

Severe Duty (SD)

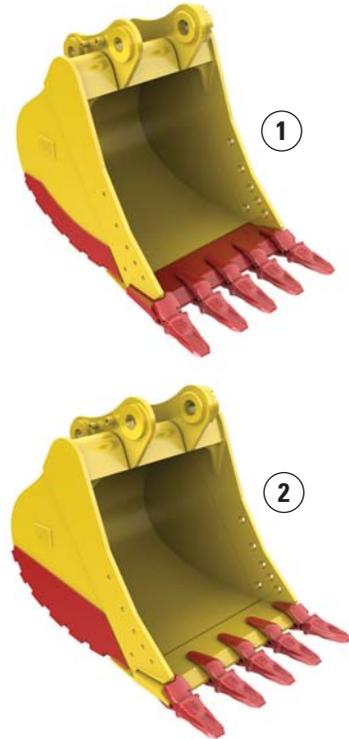
SD buckets are for higher abrasion conditions such as well shot granite and caliche.

Special Buckets

Special buckets are available for the 329E L on request.

Comprehensive Product Support

All Cat Work Tools are backed up by a world-wide network of well-stocked parts depots and highly experienced service and support personnel.



1) Heavy Duty 2) Severe Duty



Integrated Technologies

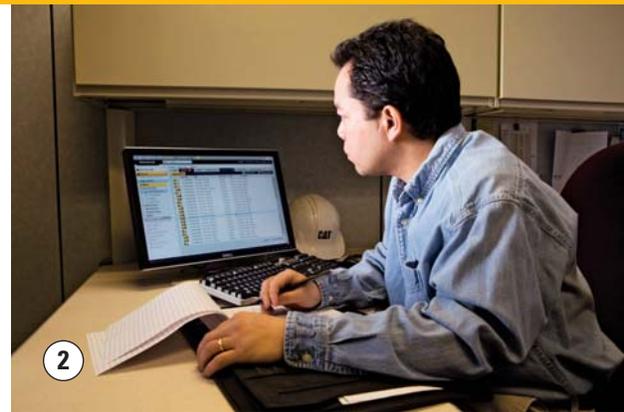
Solutions that make work easier and more efficient

Cat® Grade Control Depth and Slope

This optional system combines traditional machine control and guidance with standard machine components at the factory. With factory-installed and calibrated components, the system is ready to go to work the moment it leaves the factory. The system utilizes internal front linkage sensors – well protected from the harsh working environment – to give operators real-time bucket tip position information through the cab monitor (1), which minimizes the need and cost for traditional grade checking and improves job site safety. It also helps the operator complete jobs in fewer cycles, which means less fuel use. Cat dealers can upgrade the system to full three-dimensional control by adding proven Cat AccuGrade™ positioning technologies, including GPS and Universal Total Station (UTS).

Cat Product Link™

This deeply integrated machine monitoring system (2 and 3) is designed to help customers improve their overall fleet management effectiveness. Events and diagnostic codes as well as hours, fuel consumption, idle time, machine location, and other detailed information are transmitted to a secure web based application called VisionLink™, which uses powerful tools to communicate to users and dealers.



Serviceability

Fast, easy and safe access built in

Service Doors

Wide service doors (1) and a one-piece hood design (2) provide easy access to the engine and cooling compartments. Both doors and hood feature enhanced hardware and a new screen design to help minimize debris entry.

Compartments

The radiator, pump, and air cleaner (3) compartments provide easy access to major components. The fresh air filter (4) is located on the side of the cab to make it easy to reach and replace as needed.

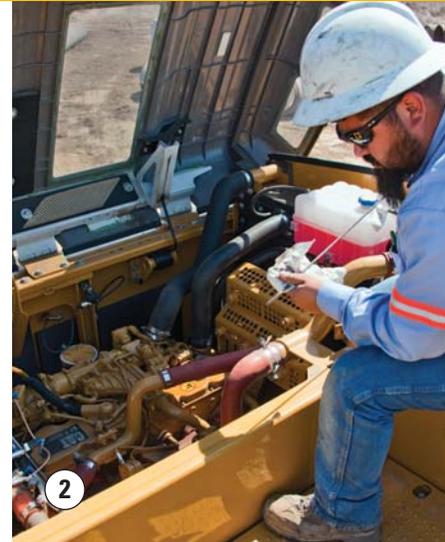
Other Services

The water separator with water level sensor has a primary fuel filter element located in the pump compartment near ground level; the electric priming pump is mounted on the primary filter base and is easy to service compared to traditional hand-priming pumps.

The fuel tank features a remote drain cock located in the pump compartment to make it easy to remove water and sediment during maintenance.

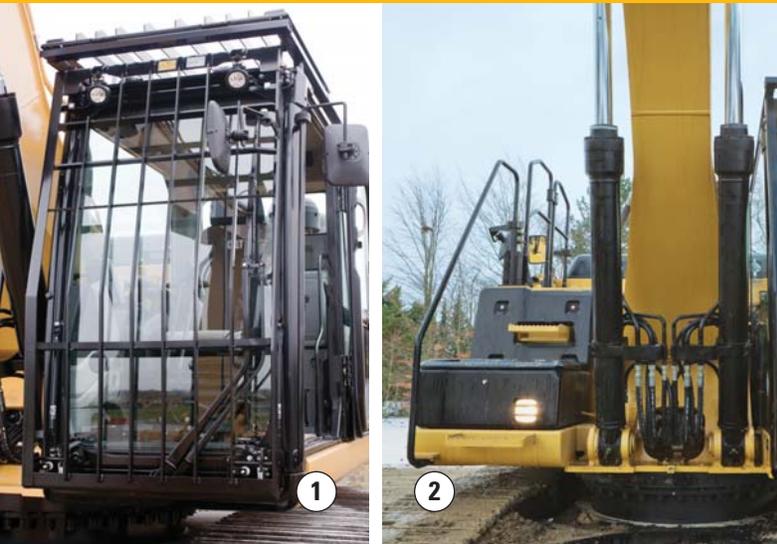
The engine oil check gauge and oil filter are situated in front of the engine compartment for easy access, and a uniquely designed drain cock helps prevent spills.

QuickEvac™ system makes changing engine and hydraulic oil easy to complete in minutes rather than hours.



Safety

Features to help protect people



ROPS Cab

The ROPS-certified cab (1) allows a Falling Object Guard Structure (FOGS) to be bolted directly to it.

Sound Proofing

Improved sealing and roof lining lower noise levels inside the cab significantly during machine operation.

Anti-Skid Plates

The surface of the upper structure and the top of the storage box area are covered with anti-skid plates to help prevent service personnel and operators from slipping during maintenance.

Steps, Hand and Guard Rails

Steps on the track frame and storage box (2) along with extended hand and guard rails (3) to the upper deck enable operators to securely work on the machine.

Time Delay Cab and Boom Lights

After the engine start key has been turned to the “OFF” position, lights will be illuminated to enhance visibility. The time delay can vary from 0 to 90 seconds, which can be set through the monitor.

High Intensity Discharge (HID) Lights

Cab lights can be upgraded to HID for greater visibility.

Visibility – Windows

Two windshield options are available: The 70/30 split configuration features an upper window equipped with handles on the top and both sides so the operator can slide it to store in the ceiling. The lower window is removable and can be stored on the left wall of the cab shell. A one-piece fixed front windshield provides operators an unobstructed forward view.

The large skylight provides great overhead visibility, excellent natural lighting, and good ventilation. The skylight can be opened completely to become an emergency exit.

Monitor Warning System

The monitor is equipped with a buzzer that can warn operators of critical events like “Engine Oil Pressure Decrease,” “Coolant Temperature High,” or “Hydraulic Oil Temperature High” so they can take any necessary action.

Rearview Camera

The standard rearview camera is housed in the counterweight (4). The image projects through the cab monitor to give the operator a clear view of what is behind the machine.



Complete Customer Care

Service you can count on

Product Support

Cat dealers utilize a worldwide parts network to maximize your machines' uptime. Plus they can help you save money with Cat remanufactured components.

Machine Selection

What are the job requirements and machine attachments? What production is needed? Your Cat dealer can provide recommendations to help you make the right machine choices.

Purchase

Consider financing options and day-to-day operating costs. Look at dealer services that can be included in the machine's cost to yield lower owning and operating costs over time.

Customer Support Agreements

Cat dealers offer a variety of customer support agreements and work with you to develop a plan to meet your specific needs. These plans can cover the entire machine, including attachments, to help protect your investment.

Operation

Improving operating techniques can boost your profits. Your Cat dealer has videos, literature, and other ideas to help you increase productivity. Caterpillar also offers simulators and certified operator training to help maximize the return on your investment.

Replacement

Repair, rebuild, or replace? Your Cat dealer can help you evaluate the cost involved so you can make the best choice for your business.



Sustainability

Generations ahead in every way

- The C7.1 ACERT engine, along with the Cat Clean Emission Module (CEM), meets EU Stage IIIB emissions regulations.
- The 329E L performs the same amount of work while burning 3% less fuel than the previous D Series model, which means more efficiency, less resources consumed, and fewer CO₂ emissions.
- The 329E L has the flexibility of running on either ultra-low-sulfur diesel (ULSD) fuel with 15 ppm of sulfur or less or biodiesel (B20) fuel blended with ULSD.
- A ground-level overfill indicator rises when the tank is full to help the operator avoid spilling.
- QuickEvac ensures fast, easy, and secure changing of engine and hydraulic oil.
- The 329E L is built to be rebuilt with major structures and components capable of being remanufactured to reduce waste and replacement costs.
- An eco-friendly engine oil filter eliminates the need for painted metal cans and aluminum top plates. The cartridge-style spin-on housing enables the internal filter to be separated and replaced; the used internal element can be incinerated to help reduce waste.
- The 329E L is an efficient, productive machine that's designed to conserve our natural resources for generations ahead.

329E L Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C7.1 ACERT
Net Flywheel Power	161 kW
Net Flywheel Power (metric)	219 hp
Net Flywheel Power (imperial)	216 hp
Net Power – ISO 14396	179 kW
Net Power – ISO 14396 (metric)	243 hp
Net Power – ISO 14396 (imperial)	240 hp
Bore	105 mm
Stroke	135 mm
Displacement	7.01 L

Weights

Minimum Weight*	28 717 kg
Maximum Weight**	30 959 kg

*Long Undercarriage, 6.15 m reach boom, R2.6CB2 stick, 5.8 mt counterweight, 1.33 m³ bucket, 600 mm TG shoes.

**Long Undercarriage, 5.55 m mass boom, R2.5DB stick, 5.8 mt counterweight, 1.87 m³ bucket, 800 mm TG shoes.

Hydraulic System

Main System – Maximum Flow (Total)	494 L/min
Swing System – Maximum Flow	247 L/min
Maximum Pressure – Equipment Heavy Lift	38 000 kPa
Maximum Pressure – Equipment Normal	35 000 kPa
Maximum Pressure – Travel	35 000 kPa
Maximum Pressure – Swing	27 503 kPa
Pilot System – Maximum Flow	23.1 L/min
Pilot System – Maximum Pressure	3920 kPa
Boom Cylinder – Bore	140 mm
Boom Cylinder – Stroke	1407 mm
Stick Cylinder – Bore	150 mm
Stick Cylinder – Stroke	1646 mm
DB Bucket Cylinder – Bore	135 mm
DB Bucket Cylinder – Stroke	1156 mm
TB Bucket Cylinder – Bore	150 mm
TB Bucket Cylinder – Stroke	1151 mm

Drive

Maximum Travel Speed	5.1 km/h
Maximum Drawbar Pull	247 kN

Swing Mechanism

Swing Speed	9.8 rpm
Swing Torque	82.2 kN·m

Service Refill Capacities

Fuel Tank Capacity	520 L
Cooling System	44 L
Engine Oil (with filter)	22.5 L
Swing Drive (each)	10 L
Final Drive (each)	6 L
Hydraulic System (including tank)	310 L
Hydraulic Tank	155 L

Track

Number of Shoes (each side)	
Long Undercarriage	50
Long Narrow Undercarriage	50
Number of Track Rollers (each side)	
Long Undercarriage	9
Long Narrow Undercarriage	9
Number of Carrier Rollers (each side)	
Long Undercarriage	2
Long Narrow Undercarriage	2

Sound Performance

ISO 6396	
Operator Noise (Closed)	72 dB(A)
Operator Noise (Open)	77 dB(A)

ISO 6395	
Spectator Noise	105 dB(A)

- Operator Sound – The operator sound level is measured according to the procedures specified in ANSI/SAE J1166 OCT98, meets OSHA ISO 6396, for cab offered by Caterpillar, when properly installed and maintained and tested with doors and windows closed.
- Exterior Sound – The labeled spectator sound power level is measured according to the test procedures and conditions specified in 2000/14/EC.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in a noisy environment.

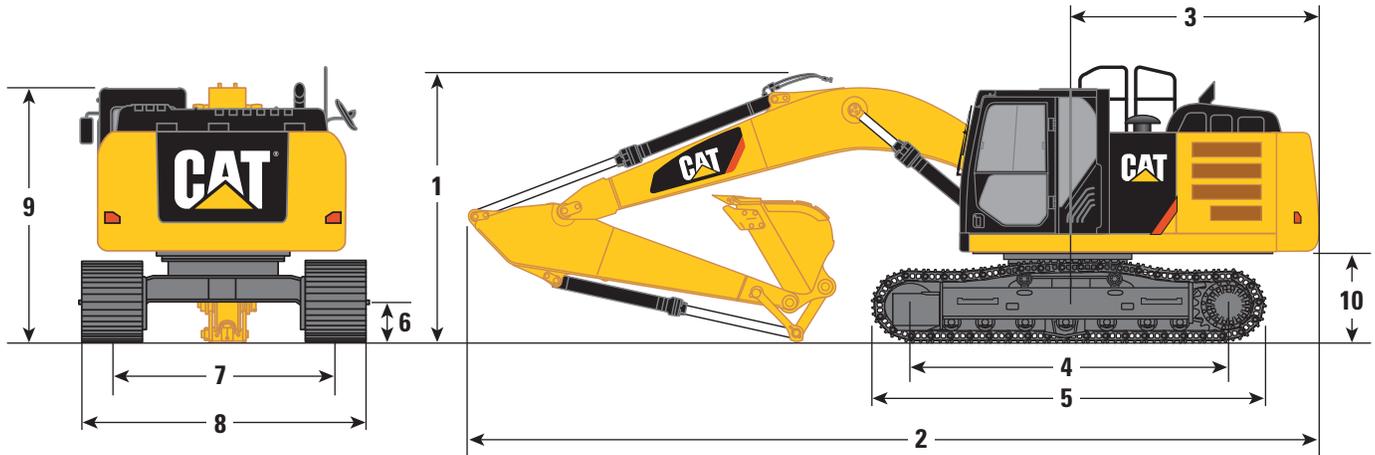
Standards

Brakes	ISO 10265 2008
Cab/FOGS	ISO 10262 1998
Cab/ROPS	ISO 12117-2:2008

329E L Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate.



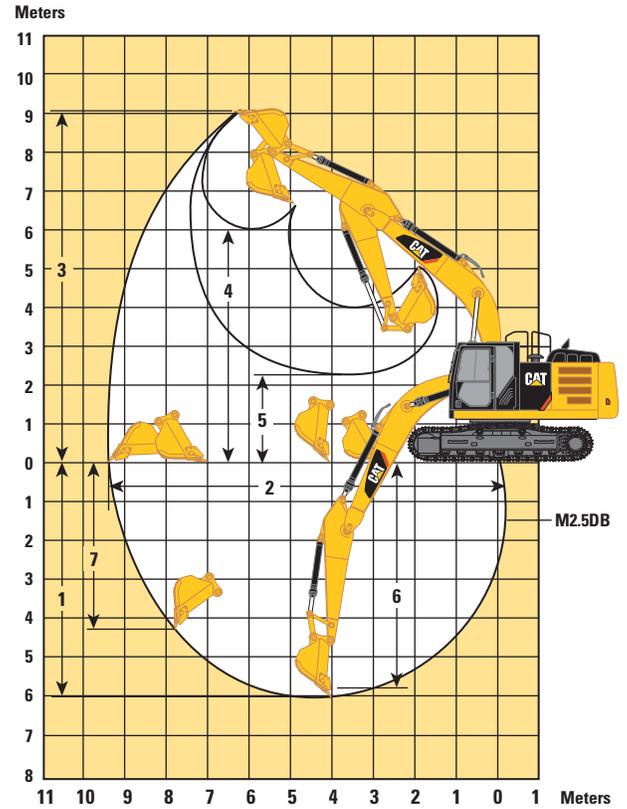
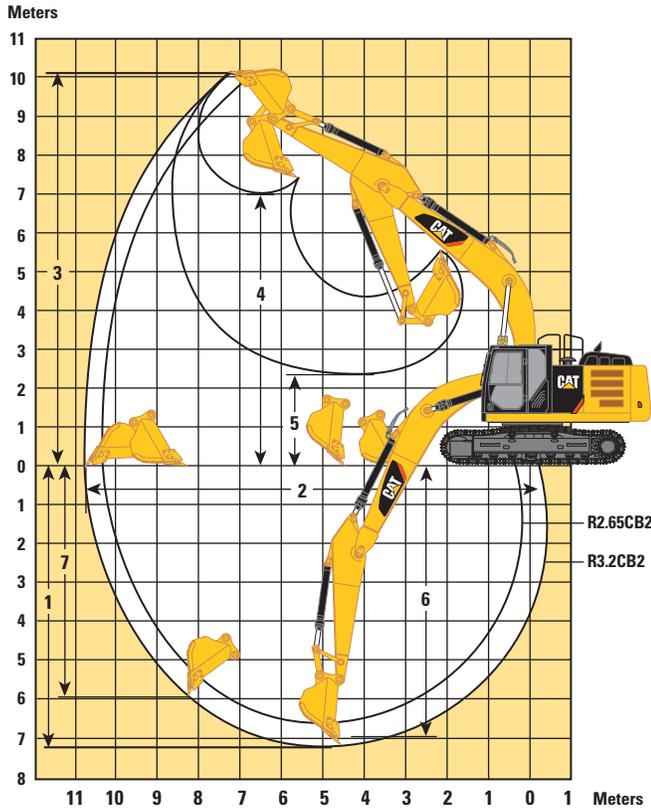
Stick	HD Reach Booms 6.15 m (20'2")		Mass Boom 5.55 m (18'3")
	R3.2CB2 (10'6")	R2.65CB2 (8'8")	M2.5DB (8'2")
	mm	mm	mm
1 Shipping Height*	3372	3450	3520
Shipping Height with Guard Rail (without fronts)	3328	3328	3328
Shipping Height with Top Guard (without fronts)	3240	3240	3240
2 Shipping Length	10 386	10 400	9830
3 Tail Swing Radius	3044	3044	3044
4 Length to Center of Rollers			
Long Undercarriage	3994	3994	3994
5 Track Length			
Long Undercarriage	4855	4855	4855
6 Ground Clearance			
Long Undercarriage	490	490	490
7 Track Gauge			
Long Undercarriage	2590	2590	2590
8 Transport Width			
Long Undercarriage – 600 mm (24") Shoes	3190	3190	3190
Long Undercarriage – 700 mm (28") Shoes	3290	3290	3290
Long Undercarriage – 800 mm (32") Shoes	3390	3390	3390
9 Cab Height	3044	3044	3044
Cab Height with Top Guard	3240	3240	3240
10 Counterweight Clearance**	1134	1134	1134

*Including shoe lug height.

**Without shoe lug height.

Working Ranges

All dimensions are approximate.



Stick	HD Reach Booms 6.15 m (20'2")		Mass Boom 5.55 m (18'3")
	R3.2CB2 (10'6")	R2.65CB2 (8'8")	M2.5DB (8'2")
	mm	mm	mm
1 Maximum Digging Depth	7250	6700	6100
2 Maximum Reach at Ground Level	10 680	10 200	9430
3 Maximum Cutting Height	10 010	9900	9130
4 Maximum Loading Height	6950	6800	6000
5 Minimum Loading Height	2290	2840	2470
6 Maximum Depth Cut for 2440 mm Level Bottom	7090	6520	5910
7 Maximum Vertical Wall Digging Depth	5980	5680	4250

329E L Hydraulic Excavator Specifications

Operating Weight and Ground Pressure

	800 mm (32") Triple Grouser Shoes		700 mm (28") Triple Grouser Shoes		600 mm (24") Triple Grouser Shoes	
	kg	kPa	kg	kPa	kg	kPa
Long Undercarriage						
HD Reach Boom – 6.15 m (20'2")						
R3.2CB2 (10'6") HD	29 827	45.8	29 207	51.2	28 867	59.1
R2.65CB2 (8'8") HD	29 677	45.5	29 057	51.0	28 717	58.8
Mass Boom – 5.55 m (18'3")						
M2.5DB (8'2")	30 117	46.2	29 497	51.7	29 157	59.7

Major Component Weights

	kg
Base Machine (with boom cylinder, without counterweight, front linkage and track)	
Long Undercarriage	15 500
Counterweight	
5.8 mt	5810
Boom (includes lines, pins and stick cylinder)	
HD Reach Boom – 6.15 m (20'2")	1950
Mass Boom – 5.55 m (18'3")	2020
Stick (includes lines, pins and bucket cylinder)	
R3.2CB2 (10'6") HD	980
R2.65CB2 (8'8") HD	830
M2.5DB (8'2")	1020
Track Shoe (Long/per two tracks)	
600 mm (24") Triple Grouser	3580
700 mm (28") Triple Grouser Heavy Duty	4280
800 mm (32") Triple Grouser	4540
Buckets	
CB1 1200HD – 1.33 m ³	1047
CB1 1350HD – 1.54 m ³	1096
DB 1500GD – 1.87 m ³	1227
A 1145DC – 0.6 m ³	288.9

All weights are rounded up to nearest 10 kg except for buckets. Kg was rounded up separately so some of the kg do not match.

Base machine includes 75 kg operator weight, 90% fuel weight, and undercarriage with center guard.

700 mm triple grouser heavy duty track shoe is not used in the calculation for operating weight and ground pressure.

329E L Hydraulic Excavator Specifications

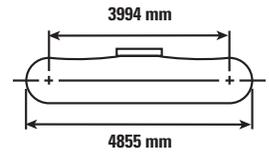
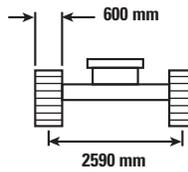
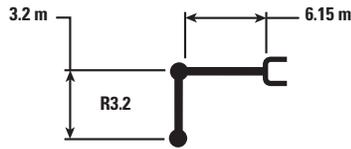
Bucket and Stick Forces

Stick	HD Reach Booms 6.15 m (20'2")		Mass Boom 5.55 m (18'3")
	CB-Family Bucket		DB-Family Bucket
	R3.2CB2 (10'6") kN	R2.65CB2 (8'8") kN	M2.5DB (8'2") kN
Heavy Duty			
Bucket Digging Force (ISO)	179	179	210
Stick Digging Force (ISO)	126	145	152
Severe Duty			
Bucket Digging Force (ISO)	179	179	–
Stick Digging Force (ISO)	126	145	–

Tip Radius

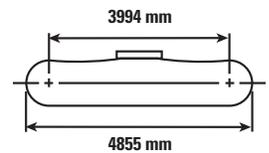
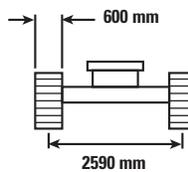
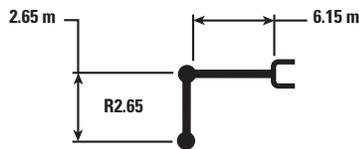
	CB-Family Bucket		
Heavy Duty	1650 mm	1798 mm	1779 mm
Severe Duty	1650 mm	–	–

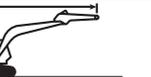
Reach Boom Lift Capacities – Counterweight: 5.8 mt



		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m
																
7.5 m	kg													*5600	*5600	7.27
6.0 m	kg									*7850	6050			*5350	5150	8.23
4.5 m	kg							*9200	8300	*8350	5900			*5300	4550	8.82
3.0 m	kg					*14 150	12 050	*10 750	7900	8750	5750	*6500	4350	*5450	4250	9.13
1.5 m	kg					*16 900	11 350	12 000	7550	8550	5550	6550	4250	*5800	4150	9.19
0.0 m	kg					*18 150	11 000	11 750	7300	8400	5400			*6350	4200	8.99
-1.5 m	kg	*6750	*6750	*10 600	*10 600	*18 150	10 900	11 600	7200	8300	5300			6950	4500	8.52
-3.0 m	kg	*12 100	*12 100	*17 150	*17 150	*17 050	10 950	11 600	7200	8350	5350			8000	5150	7.74
-4.5 m	kg			*19 750	*19 750	*14 500	11 200	*10 750	7400					*9400	6650	6.51

Reach Boom Lift Capacities – Counterweight: 5.8 mt



		3.0 m		4.5 m		6.0 m		7.5 m				m
												
7.5 m	kg									*7350	7250	6.67
6.0 m	kg					*8900	8500	*8350	6000	*6900	5750	7.70
4.5 m	kg			*12 250	*12 250	*10 000	8250	8950	5900	*6850	5000	8.33
3.0 m	kg			*15 450	11 900	*11 450	7900	8750	5750	*7000	4650	8.66
1.5 m	kg			*16 500	11 300	12 000	7550	8600	5550	6900	4500	8.72
0.0 m	kg			*17 550	11 050	11 800	7350	8450	5450	7050	4600	8.51
-1.5 m	kg	*10 350	*10 350	*17 950	11 050	11 700	7300	8400	5450	7700	5000	8.01
-3.0 m	kg	*19 400	*19 400	*16 400	11 150	11 800	7350			9100	5850	7.17
-4.5 m	kg	*17 250	*17 250	*13 100	11 450					*9550	7950	5.83



ISO 10567



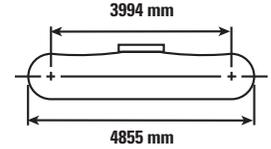
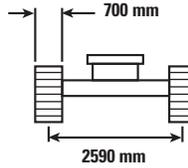
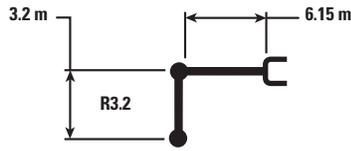
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

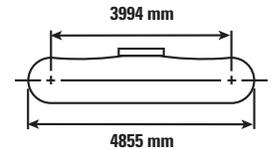
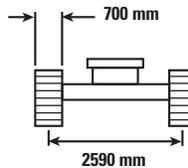
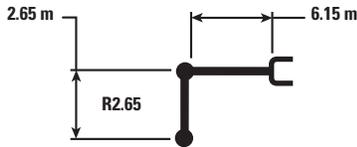
329E L Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 5.8 mt



Reach (m)	Capacity (kg)	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Reach (m)		
		Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear			
7.5 m	kg													*5600	*5600	7.27
6.0 m	kg							*7850	6100					*5350	5250	8.23
4.5 m	kg							*9200	8400	*8350	5950			*5300	4600	8.82
3.0 m	kg					*14 150	12 200	*10 750	8000	8850	5800	*6500	4400	*5450	4300	9.13
1.5 m	kg					*16 900	11 450	12 150	7650	8650	5600	6600	4300	*5800	4200	9.19
0.0 m	kg					*18 150	11 100	11 850	7400	8500	5450			*6350	4250	8.99
-1.5 m	kg	*6750	*6750	*10 600	*10 600	*18 150	11 000	11 750	7250	8400	5400			7050	4550	8.52
-3.0 m	kg	*12 100	*12 100	*17 150	*17 150	*17 050	11 050	11 750	7300	8450	5400			8100	5200	7.74
-4.5 m	kg			*19 750	*19 750	*14 500	11 300	*10 750	7450					*9400	6700	6.51

Reach Boom Lift Capacities – Counterweight: 5.8 mt



Reach (m)	Capacity (kg)	3.0 m		4.5 m		6.0 m		7.5 m		Reach (m)		
		Front	Rear	Front	Rear	Front	Rear	Front	Rear			
7.5 m	kg									*7350	7300	6.67
6.0 m	kg					*8900	8600	*8350	6050	*6900	5800	7.70
4.5 m	kg			*12 250	*12 250	*10 000	8300	*8950	5950	*6850	5050	8.33
3.0 m	kg			*15 450	12 000	*11 450	7950	8850	5800	*7000	4700	8.66
1.5 m	kg			*16 500	11 400	12 150	7650	8700	5650	6950	4550	8.72
0.0 m	kg			*17 550	11 150	11 900	7450	8550	5500	7150	4650	8.51
-1.5 m	kg	*10 350	*10 350	*17 950	11 150	11 850	7400	8500	5500	7800	5050	8.01
-3.0 m	kg	*19 400	*19 400	*16 400	11 250	11 900	7450			9200	5900	7.17
-4.5 m	kg	*17 250	*17 250	*13 100	11 550					*9550	8050	5.83



ISO 10567

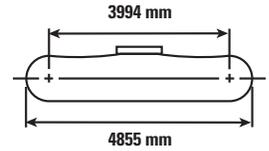
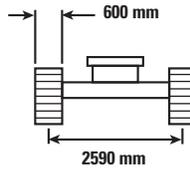
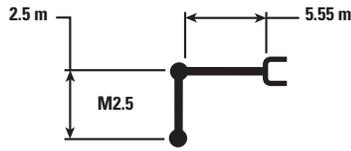


*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

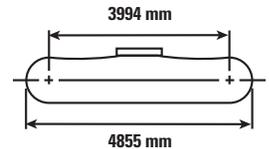
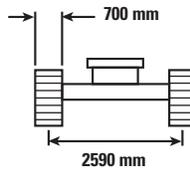
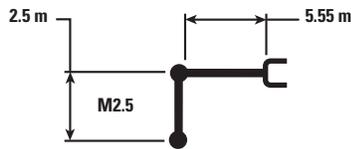
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Mass Boom Lift Capacities – Counterweight: 5.8 mt



Reach (m)	Unit	3.0 m		4.5 m		6.0 m		7.5 m		Machine		
		Diagram 1	Diagram 2	m								
7.5 m	kg									*8650	*8650	5.49
6.0 m	kg					*9650	8400			*8050	7000	6.71
4.5 m	kg			*12 250	*12 250	*10 400	8200			*8000	5850	7.43
3.0 m	kg			*15 200	12 050	*11 650	7850	8700	5650	8150	5300	7.80
1.5 m	kg			*17 550	11 400	12 050	7550	8550	5500	7950	5150	7.87
0.0 m	kg			*18 400	11 050	11 800	7350	8450	5400	8250	5300	7.63
-1.5 m	kg	*17 350	*17 350	*17 750	11 050	11 750	7300			9200	5850	7.08
-3.0 m	kg	*21 150	*21 150	*15 550	11 200	*11 200	7450			*10 900	7250	6.10

Mass Boom Lift Capacities – Counterweight: 5.8 mt



Reach (m)	Unit	3.0 m		4.5 m		6.0 m		7.5 m		Machine		
		Diagram 1	Diagram 2	m								
7.5 m	kg									*8650	*8650	5.49
6.0 m	kg					*9650	8500			*8050	7050	6.71
4.5 m	kg			*12 250	*12 250	*10 400	8250			*8000	5900	7.43
3.0 m	kg			*15 200	12 150	*11 650	7950	8800	5700	8250	5350	7.80
1.5 m	kg			*17 550	11 500	12 150	7600	8650	5550	8050	5200	7.87
0.0 m	kg			*18 400	11 200	11 900	7400	8550	5450	8300	5350	7.63
-1.5 m	kg	*17 350	*17 350	*17 750	11 150	11 850	7350			9300	5900	7.08
-3.0 m	kg	*21 150	*21 150	*15 550	11 300	*11 200	7500			*10 900	7350	6.10



ISO 10567



*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

329E L Hydraulic Excavator Specifications

Work Tool Offering Guide*

Boom Type	HD Reach Booms		Mass Boom
	R3.2 (10'6")	R2.65 (8'8")	M2.5 (8'2")
Hydraulic Hammer	H120E s H130E s H140D s	H120E s H130E s H140D s	H120E s H130E s H140D s
Multi-Processor	MP20	MP20	MP20 MP30**
Crusher	P325	P325	P325 P335
Pulverizer	P225	P225	P225 P235
Demolition and Sorting Grapple	G320B G325B	G320B G325B	G325B
Mobile Scrap and Demolition Shear	S320B S325B** S340B***	S320B S325B S340B***	S320B S325B S340B***
Compactor (Vibratory Plate)	CVP110	CVP110	CVP110
Contractors' Grapple	G120B-G130B	G120B-G130B	G120B-G130B
Trash Grapple			
Thumbs			
Rakes			
Center-Lock Pin Grabber Coupler			
Dedicated Quick Coupler			

These work tools are available for the 329E.
Consult your Cat dealer for proper match.

*Matches are dependent on excavator configurations. Consult your Cat dealer for proper work tool match.

**Pin-on only.

***Boom Mount.

Bucket Specifications and Compatibility

	Linkage	Width	Capacity	Weight	Fill	HD Reach Boom		Mass Boom
		mm	m ³	kg	%	R2.65 (8'8")	R3.2 (10'6")	M2.5 (8'2")
With Center Lock Coupler								
General Duty (GD)	CB	600	0.52	659	100%	●	●	
	CB	750	0.71	726	100%	●	●	
	CB	1050	1.12	834	100%	●	●	
	CB	1200	1.33	1004	100%	●	●	
	CB	1350	1.54	1068	100%	●	⊙	
	CB	1500	1.76	1098	100%	⊙	⊖	
Heavy Duty (HD)	CB	600	0.52	808	100%	●	●	
	CB	750	0.71	947	100%	●	●	
	CB	900	0.91	1040	100%	●	●	
	CB	1050	1.12	1134	100%	●	●	
	CB	1200	1.33	1206	100%	●	⊙	
	CB	1350	1.54	1305	100%	⊙	⊖	
	CB	1500	1.76	1406	100%	⊖	○	
	CB	1650	1.97	1477	100%	⊖	○	
	DB	1500	1.88	1624	100%			⊙
Maximum load with coupler (payload + bucket)					kg	4295	3835	4992

Maximum Material Density:

- 2100 kg/m³
- ⊙ 1800 kg/m³
- ⊖ 1500 kg/m³
- 1200 kg/m³

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with Cat® General Duty tips.

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

329E L Standard Equipment

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

ENGINE

C7.1 diesel engine
Biodiesel capable
U.S. Environmental Protection Agency (EPA) Tier 4 Interim emission standards, European Union Stage IIIB emission standards, and Japan MLIT Step 4 emission standards
2300 m altitude capability
Electric priming pump
Automatic engine speed control
Standard, economy and high power modes
Two-speed travel
Side-by-side cooling system
Radial seal air filter
Air pre-filter
Primary filter with water separator and water separator indicator switch
Fuel differential indicator switch in fuel line
1×4 micron main filters
1×10 micron primary fuel line filter
QuickEvac drains, engine and hydraulic oil

HYDRAULIC SYSTEM

Regeneration circuit for boom and stick
Reverse swing dampening valve
Automatic swing parking brake
High-performance hydraulic return filter
Capability of installing HP stackable valve and medium and QC valve
Capability of installing additional auxiliary pump and circuit
Boom lowering control device
Stick lowering check valve
Capability of installing Cat Bio hydraulic oil

CAB

Pressurized operator station with positive filtration
Mirror package
Sliding upper door window (left-hand cab door)
Glass-breaking safety hammer
Coat hook
Beverage holder
Literature holder
Two stereo speakers
Storage shelf suitable for lunch or toolbox
Color LCD display with warning, filter/fluid change, and working hour information
Adjustable armrest
Height adjustable joystick consoles
Neutral lever (lock out) for all controls
Travel control pedals with removable hand levers
Capability of installing two additional pedals
Two power outlets, 10 amp (total)
Laminated glass front window and tempered other windows
Sunscreen
Radio with MP3 auxiliary audio port
Openable roof hatch
Seat, high-back air suspension with heater and cooling
Travel alarm

UNDERCARRIAGE

Grease Lubricated Track GLT2, resin seal
Towing eye on base frame

COUNTERWEIGHT

5.8 mt

ELECTRICAL

80 amp alternator
Circuit breaker
Capability to electrically connect a beacon

LIGHTS

Boom lights with time delay
Cab lights with time delay
Exterior lights integrated into storage box

SECURITY

Cat one key security system
Door locks
Cap locks on fuel and hydraulic tanks
Lockable external tool/storage box
Signaling/warning horn
Secondary engine shutoff switch
Openable skylight for emergency exit
Rearview camera

TECHNOLOGY

Product Link

Optional equipment may vary. Consult your Cat dealer for details.

HYDRAULIC SYSTEM

- Additional circuit
- Boom and stick lines
- High-pressure line
- Medium-pressure line
- Cat quick coupler line – high- and medium-pressure capable
- Quick coupler tool control system
- Tool 20, Electronic Control device, 1/2P, common circuit

CAB

- Left pedal

UNDERCARRIAGE

- 600 mm (24") double grouser shoes
- 600 mm (24") triple grouser shoes
- 700 mm (28") triple grouser shoes
- 800 mm (32") triple grouser shoes
- Guard, full length
- Center track guiding guard
- Segmented (3 piece) track guiding guard

FRONT LINKAGE

- Bucket linkage, CB2 family with lifting eye
- Bucket linkage, DB family with lifting eye
- Heavy-duty reach boom 6.15 m (20'2")
- R2.65CB2 (8'8") HD 2650 mm stick
- R3.2CB2 (10'6") HD 3200 mm stick
- Mass boom 5.55 m (18'3")
- M2.5DB (8'2") 2500 mm stick

LIGHTS

- Halogen lights, cab mounted
- HID lights, cab mounted

SECURITY

- Guard, vandalism
- FOGS, bolt-on
- Guard, cab front, mesh
- Cat MSS (anti-theft device)

TECHNOLOGY

- Cat Grade Control Depth and Slope

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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