

329D L 329D LN

Hydraulic Excavators



Cat® C7 Diesel Engine with ACERT™ Technology

Net Power (ISO 9249) at 1800 rpm

Standard	140 kW/190 hp
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Optional (high power)	152 kW/207 hp
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Operating Weight	28 400 to 30 100 kg
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Maximum Travel Speed	5.3 km/h
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Maximum Reach at Ground Level	10 820 mm
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Maximum Digging Depth	7110 mm
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329D L and 329D LN Hydraulic Excavators

The D Series incorporates innovations for improved performance, controllability and versatility.

Engine

The Cat® C7 engine with ACERT™ Technology offers better fuel efficiency and reduced wear. It works at the point of combustion to optimize engine performance and provide low exhaust emissions. By combining ACERT Technology with the new Economy Mode and Power Management, customers can balance the demands of performance and fuel economy to suit their requirements and application. **pg. 4**

Environmentally Responsible Design

Quieter operation, lower engine emissions, less fluid disposal and cleaner service can help you meet or exceed worldwide regulations and protect the environment. **pg. 4**

Hydraulics

The hydraulic system has been designed to provide reliability and outstanding controllability with increased digging forces, lifting capacity and drawbar pull. The Cat Tool Control System provides enhanced flexibility. The Heavy Lift Mode maximizes lifting performance and maintains excellent stability. **pg. 5**

SmartBoom™

More productive. Faster cycle times for truck loading and rock scraping. Maintains optimum hammering frequency for effective, steady productivity. **pg. 5**

Operator Station

Provides maximum space, wider visibility and easy access to switches. The monitor is a full-color graphical display that allows the operator to understand the machine information easily. Overall, the new cab provides a comfortable environment for the operator. **pg. 6**

Excellent controllability and reliability, impressive lift capacity, better fuel efficiency, simplified service and a more comfortable operator station to increase your productivity and lower your operating costs.



Electronic Control System

The compact, full-color, graphical display monitor displays machine, maintenance, diagnostic and prognostic information in twenty different languages, as well as the rear view camera image. The Economy Mode and Power Management is selected from the monitor. To minimize sun glare, the monitor angle is adjustable. **pg. 7**

Booms, Sticks and Linkage

Caterpillar excavator booms and sticks are built for performance and long service life. Two types of booms and three sticks are available, offering a range of configurations suitable for a wide variety of applications. The bucket linkage pins have been enlarged to improve reliability and durability. All booms and sticks are stress relieved. **pg. 10**

Structures

Caterpillar design and manufacturing techniques assure outstanding durability and service life from these important components. The 329D comes standard with grease lubricated tracks. Cat designed excavator undercarriage is stable, durable and low maintenance for good machine stability and transportability. **pg. 8**

Work Tools and GET

A variety of work tools, including buckets, couplers, hammers, crushers, pulverizers, multiprocessors, shears and grapples are available. **pg. 11**

Service and Maintenance

Fast, easy service has been designed in with extended service intervals, advanced filtration, convenient filter access and user-friendly electronic diagnostics for increased productivity and reduced maintenance costs. **pg. 9**

Complete Customer Support

Your Cat dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. The dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement. **pg. 9**



Engine

*Built for power, reliability, economy and low emissions.
Meeting regulations... Exceeding expectations.*



Performance. The Cat C7 engine with ACERT Technology offers more engine power, and runs at lower speeds for better fuel efficiency and reduced wear. The 329D is available with two engine power versions:

- Standard power (140 kW)
- Optional High power (152 kW)

Power Management. Optimal machine performance for each type of application. The operator can change the engine

power on the monitor from standard to high. The high power mode is recommended for extremely productive areas and for hard digging applications.

Automatic Engine Speed Control.

The two-stage, one-touch control maximizes fuel efficiency and reduces sound levels.

Engine Controller. ADEM™ A4 (Advanced Diesel Engine Management) electronic control module manages fuel delivery to get the best performance per liter of fuel. The controller uses sensors in fuel, air intake, exhaust and cooling systems and provides flexible fuel mapping, allowing the engine to respond quickly to varying application needs. It tracks engine and machine conditions while keeping the engine operating at peak efficiency.

Fuel Delivery. The Cat C7 features electronic controls that govern the mechanically actuated unit fuel injection system. Multiple injection

fuel delivery involves a high degree of precision. Precisely shaping the combustion cycle lowers combustion chamber temperatures, generating fewer emissions and optimizing fuel combustion. This translates into more work output for your fuel cost.

Cooling System. To reduce fan noise, the cooling fan is driven from a viscous clutch which is electrically controlled by the machine ECM. It calculates optimum fan speed based on the target engine speed, coolant temperature, hydraulic oil temperature and actual fan speed. The Cat C7 delivers a completely new layout that separates the cooling system from the engine compartment.

Air Cleaner. The radial seal air filter features a double-layered filter core for more efficient filtration and is located in a compartment behind the cab. A warning is displayed on the monitor when dust accumulates above a preset level.

Environmentally Responsible Design

Caterpillar machines not only help you build a better world, they help maintain and preserve the fragile environment.



Emissions. The Cat C7 with ACERT Technology introduces a series of evolutionary, incremental improvements that provide breakthrough engine technology built on systems and components developed by Caterpillar with proven reliability. The technology capitalizes on Cat expertise in four core engine systems: fuel, air, electronics and after treatment. By combining ACERT Technology with the new Economy Mode, customers can balance the demands of performance and fuel economy to suit their requirements and application. ACERT engines meet EC Stage IIIA emissions regulation.

Fewer Leaks and Spills. Engine oil and encapsulated hydraulic oil filters are positioned vertically and are easy to reach to minimize spillage. Service intervals are extended to reduce the times fluids are changed and handled.

- Hydraulic oil service interval can be extended to 4000 hours with the S•O•S program.
- In addition to the S•O•S program fine filtration system attachment extends the service interval to 5000 hours.
- Cat Extended Life Coolant extends service to 6000 h, less need for fluid disposal.
- The hydraulic system is compatible with Cat HEES hydraulic bio-oil for ecologically sensitive applications.

Hydraulics

Cat hydraulics deliver power and precise control to keep material moving.



Component Layout. The 329D hydraulic system and component locations have been designed to provide a high level of system efficiency. The main pumps, control valves and hydraulic tank are located close together to allow for shorter tubes and lines between components, which reduce friction loss, and pressure drops in the lines. The layout further provides greater operator comfort by placing the radiator on the cab side of the upper structure. This allows incoming air to enter the engine compartment from the operator side and hot air and corresponding engine sound to exit on the opposite side away from the operator. This reduces engine compartment heat and sound being transmitted to the operator.



Heavy Lift Mode. Maximizing lifting performance and boosting the lifting capability. Heavy loads can be easily moved in the full working range of the machine maintaining excellent stability.

Hydraulic Cross Sensing System. The hydraulic cross sensing system utilizes each of two hydraulic pumps to 100%, under all operating conditions. This improves productivity with faster implement speeds and quicker, stronger pivot turns.

Pilot System. The pilot pump is independent from the main pumps and controls the front linkage, swing and travel operations.

Boom and Stick Regeneration Circuit. Boom and stick regeneration circuit saves energy during boom-down and stick-in operation which increases efficiency, reduces cycle times and pressure loss for higher productivity, lower operating costs and increased fuel efficiency.



Electronic Control System.

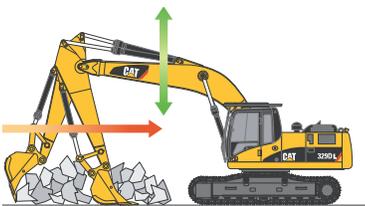
Ten hydraulic pump flow and pressure settings can be preset, eliminating the need to adjust the hydraulics each time a tool is changed.

Auxiliary Valve. The auxiliary valve is standard. Control circuits are optional, allowing for operation of high and medium pressure tools such as shears, grapples, hammers, pulverizers, etc.

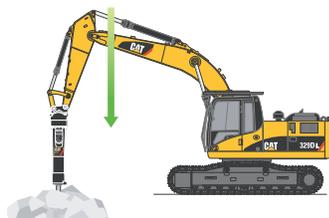
Hydraulic Cylinder Snubbers.

Located at the rod-end of the boom cylinders and both ends of the stick cylinders to cushion shocks while reducing sound levels and extending component life.

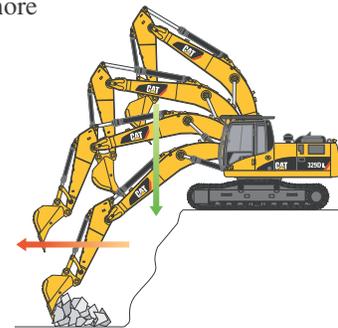
SmartBoom. Reduces stress and vibrations transmitted to the machine and provides a more comfortable environment.



Rock Scraping. Scraping rock and finishing work is easy and fast. SmartBoom simplifies the task and allows the operator to concentrate on stick and bucket, while boom freely goes up and down without using pump flow.



Hammer Work. The front parts automatically follow the hammer while penetrating the rock. Blank shots or excessive force on the hammer are avoided resulting in longer life for the hammer and the machine. Similar advantages with vibratory plates.



Truck Loading. Loading trucks from a bench is more productive and fuel efficient as the return cycle is reduced while the boom down function does not require pump flow.

Operator Station

Designed for simple, easy operation and comfort, the 329D allows the operator to focus on production.



Operator Station. The workstation is spacious, quiet and comfortable, assuring high productivity during a long workday. The air conditioner and attachment switches are conveniently located on the right-hand wall, and the key switch and throttle dial are on the right-hand console. The monitor is easy to see and maximizes visibility.

Seat. An optional air suspension seat is available in the 329D. The standard and optional seats provide a variety of adjustments to suit the operator's size and weight including fore/aft, height and weight. Wide adjustable armrests and a retractable seat belt are also included.

Climate Control. Positive filtered ventilation with a pressurized cab is standard. Fresh air or re-circulated air can be selected with a switch on the right console.

Hydraulic Activation Control Lever.

For added safety, this lever must be in the operate position to activate the machine control functions.

Controls. The 329D uses pilot operated control levers, positioned so the operator can operate with arms on the armrests. The vertical stroke is longer than the horizontal, reducing operator fatigue. The control lever grips are shaped to fit into the operator's hands. The horn switch and one-touch low idle switch are positioned on the left and right grip.

Implement Controls. Easy to handle joysticks with integrated push buttons and sliding switches control all implement and swing functions. The sliding switches provide modulated control for hydro-mechanical tools and are designed to increase operator comfort and reduce operator fatigue.



Skylight. A unique large polycarbonate skylight provides very good upward visibility, especially useful in above ground applications.

Windows. To maximize visibility, all glass is affixed directly to the cab eliminating the use of window frames. Choice of fixed or easy-to-open split front windshield meet operator preference and application conditions.

- 50/50 split front windshield allows both upper and lower portions to be stored in an overhead position.
- 70/30 split front windshield stores the upper portion above the operator. The lower front windshield features a rounded design to maximize downward visibility and improves wiper coverage.
- Both openable versions feature a one-touch action release system.
- The fixed front windshield is available in standard duty laminated glass or high impact resistant laminated glass.

Wiper. Designed to maximize visibility in poor weather conditions. The parallel wiper system covers almost the complete front window without leaving unwiped areas in the immediate line of sight of the operator.

Cab Exterior. The exterior design uses thick steel tubing along the bottom perimeter of the cab, improving the resistance of fatigue and vibration. This design allows the FOGS to be bolted directly to the cab, at the factory or as an attachment later, enabling the machine to meet specifications and job site requirements.

Electronic Control System

Manages the engine and hydraulics for maximum performance.



Adjustable Consoles. Redesigned consoles feature a simple, functional design to reduce operator fatigue, ease of switch operation and excellent visibility. Both consoles have attached armrests with height adjustments.

Cab Mounts. The cab shell is attached to the frame with viscous rubber cab mounts, which dampen vibrations and sound levels while enhancing operator comfort.

Standard Cab Equipment. To enhance operator comfort and productivity, the cab includes a lighter, drink holder, coat hook, service meter, literature holder, magazine rack and storage compartment.

Monitor Display Screen. The monitor is a full color 400x234 pixels Liquid Crystal Display (LCD) graphic display. The Master Caution Lamp blinks ON and OFF when one of the critical conditions below occurs:

- Engine oil pressure low
- Coolant temperature high
- Hydraulic oil temperature high

By default, the monitor displays the rear view camera image to assure a total control over the environment during operation. By pressing the "OK" button, the operator can toggle between this screen and the machine information display, divided in four different areas:

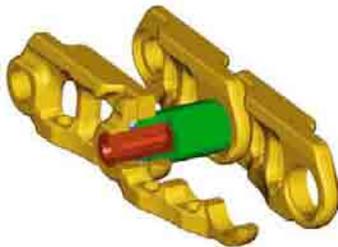
- **Clock and Throttle Dial Area.** The clock and the throttle dial position are in this area and the gas-station icon with green color is also displayed.
- **Gauge Area.** Three analog gauges, fuel level, hydraulic oil temperature and coolant temperature, are displayed in this area.
- **Event Display Area.** Machine information is displayed in this area with the icon and language.
- **Multi-information Display Area.** This area is reserved for displaying information that is convenient for the operator. The "CAT" logo mark is displayed when information to display does not exist.

Keypad. The keypad allows operator to select machine operation conditions and to set view preferences.



Structure

329D structural components and undercarriage are the backbone of the machine's durability.



Tracks. The 329D comes standard with grease lubricated tracks. The track links are assembled and sealed with grease to decrease internal bushing wear, reduce travel noise and extend service life lowering operating costs.

Structures. Proven structural manufacturing techniques, assure outstanding durability and service life from these important components.

Robotic Welding. Up to 95% of the structural welds on a Caterpillar Excavator are completed by robots. Robotic welds achieve over three times the penetration of manual welds.

Carbody Design and Track Roller Frames. X-shaped, box-section carbody provides excellent resistance to torsional bending. Robot-welded track roller frames are press-formed, pentagonal units to deliver exceptional strength and service life.

Undercarriage. Durable Cat undercarriage absorbs stresses and provides excellent stability.

Rollers and Idlers. Sealed and lubricated track rollers, carrier rollers, and idlers provide excellent service life, to keep the machine in the field longer.

Undercarriage Options. Two undercarriage options, long (L) and long narrow (LN) allow you to choose the best machine for your application and business needs.

Long Undercarriage. The long undercarriage (L) maximizes stability and lift capacity. This long, wide and sturdy undercarriage offers a very stable work platform.

Long Narrow Undercarriage.

The long and narrow undercarriage (LN) provides the best choice when ease of transport is important while maintaining excellent lift capacity.

Service and Maintenance

Simplified service and maintenance save you time and money.



Air Filter Compartment. The air filter features a double-element construction for superior cleaning efficiency. When the air cleaner plugs, a warning is displayed on the monitor screen inside the cab.

Ground Level Service. The design and layout of the 329D was made with the service technician in mind. Many service locations are easily accessible at ground level allowing critical maintenance to get done quickly and efficiently.

Pump Compartment. A service door on the right side of the upper structure allows ground-level access to the pump and pilot filter.

Capsule Filter. The hydraulic return filter, a capsule filter, is situated outside the hydraulic tank. This filter prevents contaminants from entering the system when hydraulic oil is changed and keeps the operation clean.

Diagnostics and Monitoring. The 329D is equipped with S•O•S sampling ports and hydraulic test ports for the hydraulic system, engine oil, and for coolant. A test connection for the Electronic Technician (ET) service tool is located behind the cab.

Anti-Skid Plate. Anti-skid plate covers top of storage box and upper structure to prevent slipping during maintenance.

Fan Guard. Engine radiator fan is completely enclosed by fine wire mesh, reducing the risk of an accident.

Greasing Points. A concentrated remote greasing block on the boom delivers grease to hard-to-reach locations on the front.

Radiator Compartment. The left rear service door allows easy access to the engine radiator, oil cooler and air-to-air aftercooler. Reserve tank and drain cock are attached to the radiator for simplified maintenance.



Extended Service Intervals. 329D service and maintenance intervals have been extended to reduce machine service time and increase machine availability.

Complete Customer Support

Cat dealer services help you operate longer with lower costs.



Machine Selection. Make detailed comparisons of the machines you are considering before you buy. What are the job requirements, machine attachments and operating hours? What production is needed? Your Cat dealer can provide recommendations.

Purchase. Consider the financing options available as well as day-to-day operating costs. This is also the time to look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.

Customer Support Agreements.

Cat dealers offer a variety of product support agreements, and work with customers to develop a plan the best meets specific needs. These plans can cover the entire machine, including attachments, to help protect the customer's investment.

Operation. Improving operating techniques can boost your profits. Your cat dealer has videotapes, literature and other ideas to help you increase productivity, and Caterpillar offers certified operator training classes to help maximize the return on your investment.

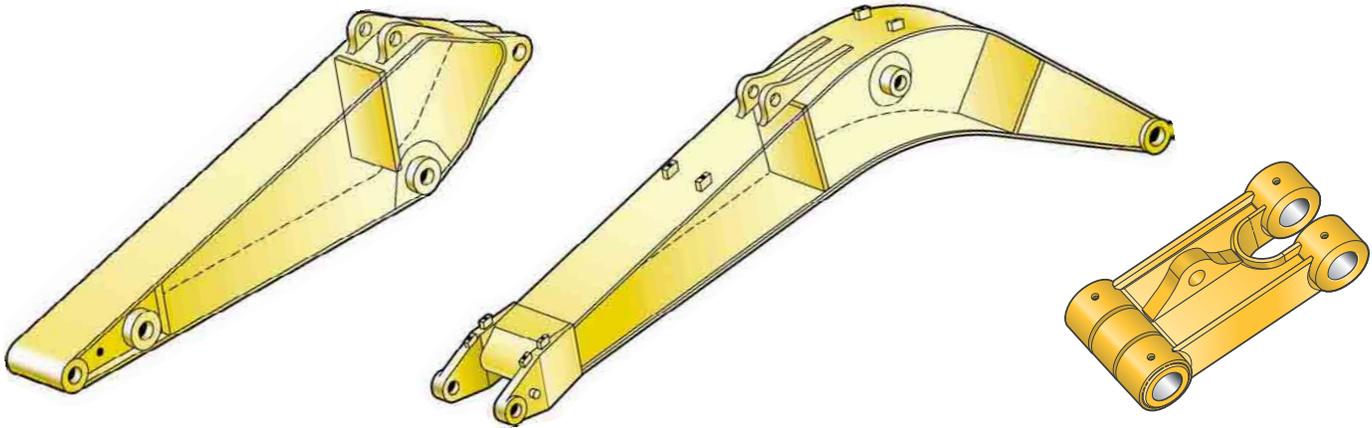
Product Support. You will find nearly all parts at our dealer parts counter. Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine downtime. You can save money with Cat remanufactured components.

Maintenance Services. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as Scheduled Oil Sampling, Coolant Sampling and Technical Analysis help you avoid unscheduled repairs.

Replacement. Repair, rebuild or replace? Your Cat dealer can help you evaluate the cost involved so you can make the right choice.

Booms, Sticks and Linkage

Designed for flexibility, high productivity, and efficiency in a variety of applications.



Front Linkage Attachments. Select the right combination of front linkage with your Cat dealer to ensure high productivity from the very start of your job. Two types of booms and three sticks are available, offering a range of configurations suitable for a wide variety of applications and offer a large combination of reach and digging forces for optimum versatility. All booms and sticks undergo a stress relieving process for greater durability.

Boom Construction. The booms have large cross-sections and internal baffle plates to provide long life durability.

Reach Boom. The reach boom (6150 mm) is designed to balance reach, digging force bucket capacity, offering a wide range of applications as digging, loading, trenching and working with hydraulic tools.

Mass Excavation Boom. The mass boom (5550 mm) is designed to provide maximum digging forces, bucket capacity and truck loading productivity.

Stick Construction. Sticks are made of high-tensile strength steel using a large box section design with interior baffle plates and an additional bottom guard to protect against damage.

Reach Sticks. Two lengths of reach sticks are available to suite a variety of applications. Reach sticks use the CB2 linkage.

- R3.2CB2. The 3200 mm stick gives the largest working envelope with medium-sized buckets.
- R2.6CB2. The 2650 mm stick uses larger capacity CB2 family buckets and is best suited for trenching, excavation and general construction applications.

Mass Stick. The mass excavation stick is available for higher digging forces and increased bucket capacity.

- M2.5DB. The 2500 mm stick provides excellent digging envelope with large bucket capacity and high force levels.



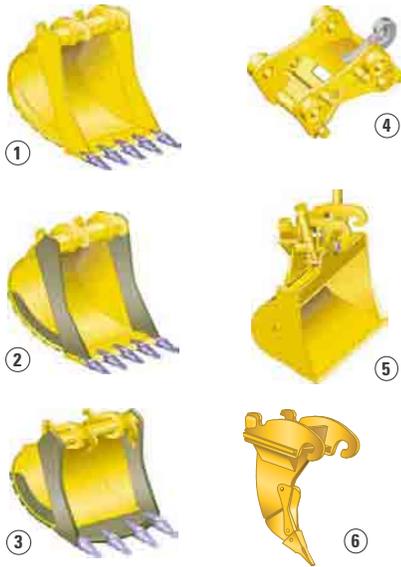
Bucket Linkage. Two bucket linkages (CB2 and DB) are available, with lifting eye on the power link.

Power Link. The new power link improves durability, increases machine-lifting capability in key lifting positions, and is easier to use compared to the previous lift bar design.

Linkage Pins. All pins used in front linkages have thick chrome plating, giving them high wear and corrosion resistance. The large diameter pins smoothly distribute the shear and bending loads to help ensure long pin, boom and stick life.

Work Tools

A wide variety of Work Tools help optimize machine performance. Purpose designed and built to Caterpillar's high durability standards.



- 1 Excavation (X)
- 2 Extreme Excavation (EX)
- 3 Rock (R)
- 4 Quick Coupler
- 5 Ditch Cleaning
- 6 Ripper



Work Tools. Caterpillar work tools are designed to function as an integral part of your excavator and to provide the best possible performance in your particular application. All work tools are performance-matched to Cat machines.

Quick Couplers. Quick couplers enable the operator to simply release one work tool and connect to another, making your hydraulic excavator highly versatile. Productivity also increases, as a carrier no longer needs to be idle between jobs. Caterpillar offers hydraulic and spindle quick coupler versions.

Buckets. Caterpillar offers a wide range of specialized buckets, each designed and tested to function as an integral part of your excavator. Buckets feature the new Caterpillar K Series™ Ground Engaging Tools.

Ripper. The Caterpillar TR-series ripper provides a powerful single point of penetration force to break out rock and other difficult to excavate material.

Hammers. Cat hammer series deliver very high blow rates, increasing the productivity of your tool carriers in demolition and construction applications. Wide oil flow acceptance ranges make the Caterpillar hammers suitable for a wide range of carriers and provide a system solution from one safe source.

Orange Peel Grapples. The orange peel grapple is constructed of high-strength, wear-resistant steel, with a low and compact design that makes it ideal for dump clearance. There are several choices of tine and shell versions.

Multi-Grapples. The multi-grapple with unlimited left and right rotation is the ideal tool for stripping, sorting, handling and loading. The powerful closing force of the grab shells combined with fast opening/closing time ensures rapid cycle time which translates to more tons per hour.

Multi-Processors. Thanks to its single basic housing design, the multi-processor series of hydraulic demolition equipment makes it possible to use a range of jaw sets that can handle any demolition job. The multi-processor is the most versatile demolition tool on the market.

Vibratory Plate Compactors. Cat compactors are performance-matched to Cat machines, and integrate perfectly with the Cat hammer line – brackets and hydraulic kits are fully interchangeable between hammers and compactors.

Shears. Cat shears provide superior and effective scrap processing, and are highly productive in demolition environments. Shears are compatible with a matching Cat excavator, and bolt-on brackets are available for either stick or boom-mounted options.

Bucket Specifications

Without Quick Coupler	Linkage	Width mm	Weight* kg	Capacity (ISO) m³	Fill Factor %	Reach boom 6150 mm				ME 5550 mm		
						329D L		329D LN		329D L	329D LN	
						2650 mm	3200 mm	2650 mm	3200 mm	2500 mm		
Excavation	CB2	600	646	0.49	100					×	×	
	CB2	750	688	0.67	100					×	×	
	CB2	1250	919	1.29	100					×	×	
	CB2	1300	958	1.35	100					×	×	
	CB2	1350	979	1.42	100					×	×	
	CB2	1400	1000	1.48	100					×	×	
	CB2	1500	1043	1.61	100					×	×	
	CB2	1600	1084	1.74	100					×	×	
	DB	1000	1124	1.11	100	×	×	×	×			
	DB	1350	1333	1.62	100	×	×	×	×			
	DB	1500	1443	1.84	100	×	×	×	×			
	DB	1600	1501	1.99	100	×	×	×	×			
	DB	1650	1530	2.07	100	×	×	×	×			
Extreme Excavation	CB2	1700	1558	2.14	100	×	×	×	×			
	DB	1800	1616	2.29	100	×	×	×	×			
	CB2	750	724	0.66	100					×	×	
	CB2	1150	926	1.16	100					×	×	
	CB2	1350	1014	1.42	100					×	×	
	CB2	1450	1083	1.55	100					×	×	
	CB2	1500	1104	1.61	100					×	×	
	CB2	1600	1148	1.74	100					×	×	
	DB	1350	1454	1.62	100	×	×	×	×			
	DB	1500	1549	1.84	100	×	×	×	×			
	DB	1600	1647	1.99	100	×	×	×	×			
	DB	1650	1678	2.07	100	×	×	×	×			
	Rock	DB	1700	1710	2.14	100	×	×	×	×		
DB		1000	1257	1.11	90	×	×	×	×			
DB		1650	1820	2.07	90	×	×	×	×			
Maximum load in kg (payload plus bucket)						4539	4098	3985	3584	5288	4632	
With Quick Coupler												
Excavation	CW45, CW45S	CB2	600	615	0.49	100					×	×
		CB2	750	611	0.67	100					×	×
		CB2	1250	845	1.29	100					×	×
		CB2	1300	884	1.35	100					×	×
		CB2	1350	904	1.42	100					×	×
		CB2	1400	925	1.48	100					×	×
		CB2	1500	966	1.61	100					×	×
		CB2	1600	985	1.74	100					×	×
	CW45, CW45S	DB	1000	1108	1.11	100	×	×	×	×		
		DB	1350	1314	1.62	100	×	×	×	×		
		DB	1500	1423	1.84	100	×	×	×	×		
		DB	1600	1482	1.99	100	×	×	×	×		
		DB	1650	1511	2.07	100	×	×	×	×		
Extreme Excavation	CW45, CW45S	DB	1700	1539	2.14	100	×	×	×	×		
		DB	1800	1563	2.29	100	×	×	×	×		N
		CB2	750	675	0.67	100					×	×
		CB2	1150	878	1.16	100					×	×
		CB2	1350	966	1.42	100					×	×
		CB2	1450	1034	1.55	100					×	×
	CW45, CW45S	CB2	1500	1056	1.61	100					×	×
		CB2	1600	1100	1.74	100					×	×
		DB	1350	1436	1.62	100	×	×	×	×		
		DB	1500	1531	1.84	100	×	×	×	×		
		DB	1600	1629	1.99	100	×	×	×	×		
		DB	1650	1661	2.07	100	×	×	×	×		
		DB	1700	1691	2.14	100	×	×	×	×		
Rock	DB	1000	1277	1.11	90	×	×	×	×			
	DB	1650	1760	2.07	90	×	×	×	×			
Maximum load in kg (payload plus bucket)						4289	3848	3735	3334	4838	4182	

* Bucket weight including penetration plus tips



Max. Material Density
1200 kg/m³



Max. Material Density
1500 kg/m³



Max. Material Density
1800 kg/m³



Not recommended



Not compatible

Work Tools Matching Guide

Without quick coupler		mm	Reach boom 6150 mm				ME 5550 mm	
			329D L		329D LN		329D L	329D LN
			2650	3200	2650	3200	2500	
Hammers	H120C s, H130 s, H140D s							
Multiprocessors	MP20 CC, CR, PP, PS, S, TS							
	MP30 CC, CR, S, TS		N	N	N	N		N
	MP30 PP, PS		N	N	N	N		N
Crushers and Pulverizers	VHC-40							
	VHC-50		N	N	N	N		
	VHP-40							
	VHP-50		N	N	N	N		
Hydraulic Shears	S320							
	S325			N		N		
	S340*							
Mechanical Grapples	G115							
	G125			N	N	N		
Multi Grapples	G320							
	G330		N	N	N	N		
	G320B-D, -R							
Vibratory Plate Compactor	CVP110							
Clamshell Buckets (rehandling)	GOS-35 620, 700, 780							
	GOS-35 1050, 1260							
	GOS-35 1460, 1670							
	GOS-45 970							
	GOS-45 1120							
	GOS-45 1270							
	GOS-45 1580							
	GOS-45 1710					N		
	GOS-45 2020			N	N	N		
	GOS-45 2340		N	N	N	N		N
Orange Peel Grapples	5 tines	GSH20B 600, 800						
		GSH20B 1000						
		GSH22B 600						
		GSH22B 800						
		GSH22B 1000					N	
	4 tines	GSH22B 1250			N	N	N	
		GSH20B 600, 800, 1000						
		GSH22B 600						
		GSH22B 800						
		GSH22B 1000						
GSH22B 1250					N			

* Boom mounted

With quick coupler

Quick Couplers	CW-45							
	CW-45S							
Hammers	H120C s, H130 s, H140D s							
Multiprocessors	MP20 CC, CR, PS, S							
	MP20 PP, TS					N		
Crushers and Pulverizers	VHC-40					N		
	VHC-50		N	N	N	N		N
	VHP-40					N		
	VHP-50		N	N	N	N		N
Hydraulic Shears	S320							
	S325		N	N	N	N		
Mechanical Grapples	G115							
	G125		N	N	N	N		N
Multi Grapples	G315						N	N
	G320			N	N	N		
	G330		N	N	N	N		N
	G320B-D, -R						N	N
Vibratory Plate Compactor	CVP110							

360° Working range

Over the front only

Best choice

Quick coupler match

N Not recommended

Max. Material Density 1200 kg/m³

Max. Material Density 1800 kg/m³

Max. Material Density 3000 kg/m³

Engine

Cat C7 with ACERT Technology

Standard Net Power at 1800 rpm

ISO 9249	140 kW/190 hp
----------	---------------

80/1269/EEC	140 kW/190 hp
-------------	---------------

Optional Net Power at 1800 rpm

ISO 9249	152 kW/207 hp
----------	---------------

80/1269/EEC	152 kW/207 hp
-------------	---------------

Bore	110 mm
------	--------

Stroke	127 mm
--------	--------

Displacement	7.2 liters
--------------	------------

- All engine horsepower (hp) are metric including front page.
- The C7 engine meets Stage IIIA emission requirements.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- Full engine net power up to 2300 m altitude (engine derating required above 2300 m).

Sound

Operator Sound

- The operator sound level measured according to the procedures specified in ISO 6394:1998 is 76 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.

Exterior Sound

- The labeled spectator sound power level measured according to the test procedures and conditions specified in 2005/88/EC is 104 dB(A).

Cab/FOGS

Cab/FOGS meets ISO 10262.

Hydraulic System

Main System

Maximum flow	2 x 235 l/min
--------------	---------------

Maximum pressure

Normal	350 bar
--------	---------

Heavy lift	360 bar
------------	---------

Travel	350 bar
--------	---------

Swing	275 bar
-------	---------

Pilot System

Maximum flow	32.4 l/min
--------------	------------

Maximum pressure	39 bar
------------------	--------

Boom Cylinder

Bore	140 mm
------	--------

Stroke	1407 mm
--------	---------

Stick Cylinder

Bore	150 mm
------	--------

Stroke	1646 mm
--------	---------

CB2 Family Bucket Cylinder

Bore	135 mm
------	--------

Stroke	1156 mm
--------	---------

DB Family Bucket Cylinder

Bore	150 mm
------	--------

Stroke	1151 mm
--------	---------

Machine and Major Component Weights

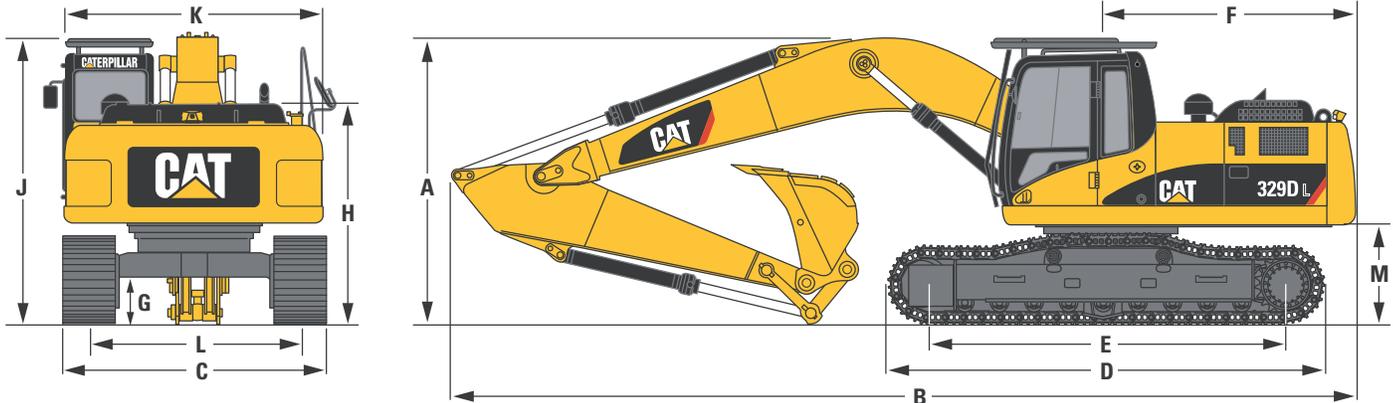
Actual weights and ground pressures will depend on final machine configuration.

		Reach boom 6150 mm		ME 5550 mm
		R2.6CB2	R3.2CB2	M2.5DB
Stick type				
Stick length	mm	2650	3200	2500
Bucket weight	kg	925	884	1436
Bucket capacity	m ³	1.5	1.35	1.6
Bucket width/type	mm	1400/X	1300/X	1350/EX
Operating weight*				
329D L (800 mm shoes)	kg	29 430	29 560	30 110
329D LN (600 mm shoes)	kg	28 410	28 540	29 100
Ground pressure				
329D L (800 mm shoes)	bar	0.43	0.43	0.44
329D LN (600 mm shoes)	bar	0.56	0.56	0.57
Stick weight (without bucket cylinder)	kg	840	945	980
Boom weight (without stick cylinder)	kg	1770		1830
Upperstructure (without counterweight)	kg	6770		6770
Undercarriage				
329D L (800 mm shoes)	kg	11 400		11 400
329D LN (600 mm shoes)	kg	10 380		10 380
Counterweight	kg	5810		5810

* With counterweight, quick coupler, bucket, operator and full fuel.

Dimensions

All dimensions are approximate.



	mm
A Shipping height (with bucket)	
Reach boom	
2650 mm stick	3190
3200 mm stick	3180
Mass Excavation boom	
2500 mm stick	3250

	mm
B Shipping length	
Reach boom	
2650 mm stick	10 420
3200 mm stick	10 410
Mass Excavation boom	
2500 mm stick	9860

	mm
C Track width	
329D L (800 mm shoes)	3390
329D LN (600 mm shoes)	2990
D Track length	4860
E Length to centers of rollers	3990
F Tail swing radius	3080
G Ground clearance	480
H Body height	2610
J Cab height	3170
K Body width	2900
L Track gauge	
329D L	2590
329D LN	2390
M Counterweight clearance	1080

Track Width

Undercarriage with triple grouser shoes

Long (L)	600 mm, 800 mm, 900 mm
	600 mm HD, 700 mm HD
Long Narrow (LN)	600 mm, 800 mm
	600 mm HD, 700 mm HD

Drive

Maximum Travel Speed	5.3 km/h
Maximum Drawbar Pull	249 kN

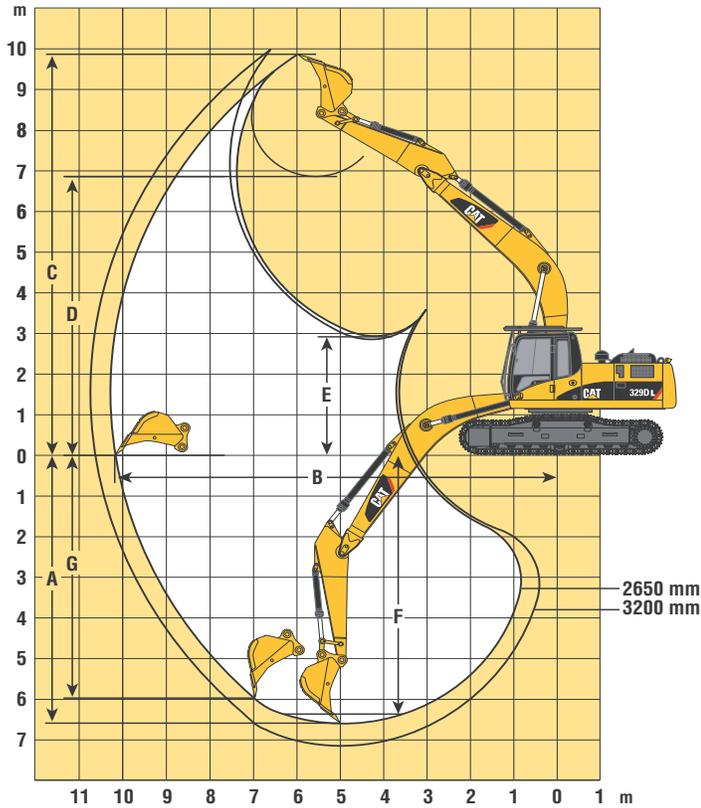
Swing Mechanism

Swing Speed	10.2 rpm
Swing Torque	82.2 kNm

Service Refill Capacities

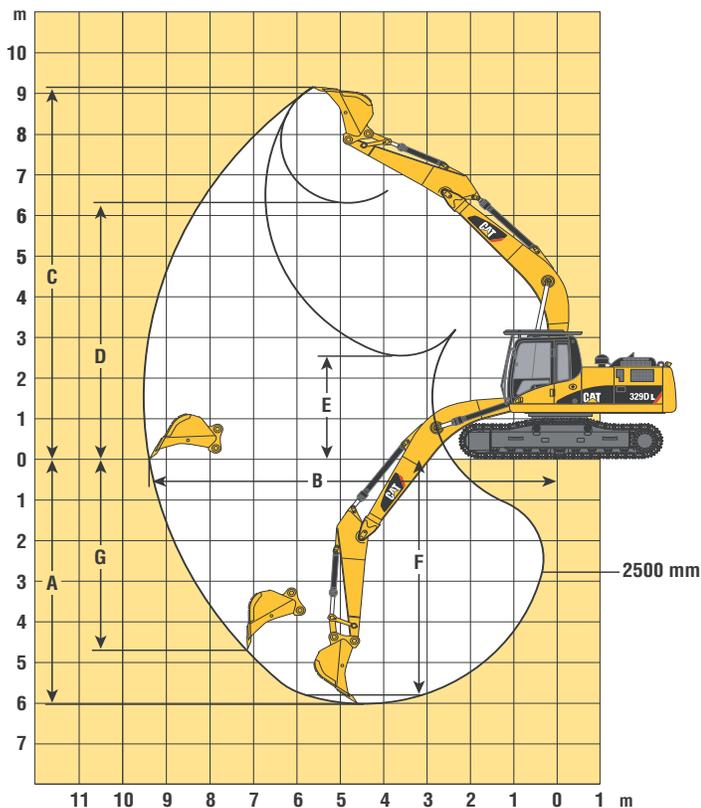
	Liters
Fuel Tank	520
Cooling System	30
Engine Oil	30
Swing Drive (each)	10
Final Drive (each)	6
Hydraulic system (including tank)	310
Hydraulic tank	257

Working Ranges – Reach Boom (6150 mm)



		R2.6CB2	R3.2CB2
Stick Length	mm	2650	3200
A Maximum Digging Depth	mm	-6620	-7170
B Maximum Reach at Ground Level	mm	10 130	10 600
C Maximum Cutting Height	mm	9880	9990
D Maximum Loading Height	mm	6870	7020
E Minimum Loading Height	mm	2920	2370
F Maximum Digging Depth 2500 mm Level Bottom	mm	-5980	-7010
G Maximum Vertical Wall Digging Depth	mm	-6440	-6510
Bucket Tip Radius	mm	1610	1610
Bucket Force (ISO 6015)	kN	168	159
Stick Force (ISO 6015)	kN	155	138

Working Range – Mass Excavation Boom (5550 mm)



		M2.5DB
Stick Length	mm	2500
A Maximum Digging Depth	mm	-6010
B Maximum Reach at Ground Level	mm	9340
C Maximum Cutting Height	mm	10 409
D Maximum Loading Height	mm	6090
E Minimum Loading Height	mm	2560
F Maximum Digging Depth 2500 mm Level Bottom	mm	-6439
G Maximum Vertical Wall Digging Depth	mm	-4710
Bucket Tip Radius	mm	1764
Bucket Force (ISO 6015)	kN	185
Stick Force (ISO 6015)	kN	167

Lift Capacities – Reach Boom (6150 mm)

All weights are in kg, without bucket, with quick coupler, heavy lift on.

329D L

Medium Stick

2650 mm

Shoes

800 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m	
																
7.5 m														*5690	*5690	7.09
6.0 m									*7380	5540				*5380	4860	8.08
4.5 m							*8640	7710	*7780	5420				*5320	4230	8.69
3.0 m					*13 400	11 240	*10 050	7330	8250	5240	*5530	3920		*5460	3920	9.01
1.5 m					*15 870	10 530	11 370	6970	8050	5060	6090	3850		*5790	3800	9.07
0 m					*16 870	10 190	11 100	6730	7890	4920				6160	3870	8.87
-1.5 m			*9710	*9710	*16 770	10 120	10 980	6630	7830	4860				6650	4170	8.4
-3.0 m			*14 360	*14 360	*15 610	10 200	11 010	6660	7890	4920				7740	4830	7.61
-4.5 m			*16 590	*16 590	*13 060	10 460	*9530	6860						*8580	6350	6.37

329D L

Long Stick

3200 mm

Shoes

800 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m	
																
7.5 m										*5070	*5070			*4380	*4380	7.69
6.0 m									*6690	5590				*4180	*4180	8.6
4.5 m							*7860	7790	*7190	5450	*5050	3990		*4160	3850	9.18
3.0 m					*12 140	11 460	*9330	7380	*7950	5240	6170	3910		*4280	3570	9.48
1.5 m					*14 930	10 630	*10 790	6980	8030	5030	6050	3800		*4540	3470	9.54
0 m			*5850	*5850	*16 490	10 160	11 060	6690	7840	4860	5960	3720		*4990	3510	9.35
-1.5 m	*6100	*6100	*9790	*9790	*16 810	9990	10 890	6540	7730	4760				*5750	3750	8.91
-3.0 m	*10 450	*10 450	*14 740	*14 740	*16 080	10 010	10 870	6520	7740	4770				6860	4260	8.16
-4.5 m			*16 550	*16 550	*14 130	10 210	*10 510	6650						*8330	5370	7.02

329D LN

Medium Stick

2650 mm

Shoes

600 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m	
																
7.5 m														*5690	5430	7.09
6.0 m									*7380	4950				*5380	4330	8.08
4.5 m							*8640	6890	*7780	4840				*5320	3760	8.69
3.0 m					*13 400	9920	*10 050	6510	7970	4660	*5530	3470		*5460	3460	9.01
1.5 m					*15 870	9230	10 990	6160	7770	4470	5870	3390		*5790	3350	9.07
0 m					*16 870	8900	10 720	5930	7610	4340				5940	3410	8.87
-1.5 m			*9710	*9710	*16 770	8830	10 600	5830	7550	4280				6420	3670	8.4
-3.0 m			*14 360	*14 360	*15 610	8920	10 630	5860	7620	4340				7470	4260	7.61
-4.5 m			*16 590	*16 590	*13 060	9160	*9530	6060						*8580	5610	6.37

329D LN

Long Stick

3200 mm

Shoes

600 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m	
																
7.5 m										*5070	5010			*4380	*4380	7.69
6.0 m									*6690	5000				*4180	3890	8.6
4.5 m							*7860	6970	*7190	4860	*5050	3540		*4160	3410	9.18
3.0 m					*12 140	10 130	*9330	6560	*7950	4650	5950	3450		*4280	3150	9.48
1.5 m					*14 930	9330	*10 790	6170	7750	4440	5840	3350		*4540	3040	9.54
0 m			*5850	*5850	*16 490	8870	10 680	5880	7560	4280	5740	3270		*4990	3080	9.35
-1.5 m	*6100	*6100	*9790	*9790	*16 810	8700	10 510	5730	7460	4180				*5750	3290	8.91
-3.0 m	*10 450	*10 450	*14 740	*14 740	*16 080	8730	10 490	5720	7460	4190				6610	3750	8.16
-4.5 m			*16 550	*16 550	*14 130	8920	*10 510	5840						*8330	4730	7.02



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach

* Limited by hydraulic rather than tipping load.

The above loads are in compliance with hydraulic excavator lift capacity ratings standard ISO 10567, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

Lift Capacities – Mass Excavation Boom (5550 mm)

All weights are in kg, without bucket, with quick coupler, heavy lift on.

329D L

Medium Stick

2500 mm

Shoes

800 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m					
															m	
7.5 m														*6480	*6480	5.96
6.0 m							*8030	7760						*6070	5750	7.1
4.5 m							*8800	7530	*7750	5150				*6040	4810	7.79
3.0 m					*12 980	11 260	*10 040	7170	8040	5010				*6290	4350	8.15
1.5 m					*15 460	10 490	11 250	6810	7860	4840				6790	4190	8.22
0 m			*8880	*8880	*16 650	10 080	10 970	6560	7720	4720				6990	4290	8
-1.5 m	*9310	*9310	*15 400	*15 400	*16 450	9960	10 850	6460						7730	4720	7.47
-3.0 m			*20 810	20 500	*14 850	10 070	*10 840	6540						*9450	5770	6.57
-4.5 m					*10 880	10 450								*9220	8740	5.07

329D LN

Medium Stick

2500 mm

Shoes

600 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m					
															m	
7.5 m														*6480	*6480	5.96
6.0 m							*8030	6930						*6070	5110	7.1
4.5 m							*8800	6700	*7750	4560				*6040	4250	7.79
3.0 m					*12 980	9920	*10 040	6350	7760	4420				*6290	3820	8.15
1.5 m					*15 460	9180	10 870	6000	7580	4260				6540	3670	8.22
0 m			*8880	*8880	*16 650	8780	10 580	5750	7440	4130				6740	3750	8
-1.5 m	*9310	*9310	*15 400	*15 400	*16 450	8670	10 470	5650						7450	4130	7.47
-3.0 m			*20 810	17 450	*14 850	8780	10 550	5730						9180	5060	6.57
-4.5 m					*10 880	9150								*9220	7680	5.07

Standard Equipment

Standard equipment may vary. Consult your Caterpillar dealer for specifics.

Electrical

Alternator – 65 amp
 Heavy duty maintenance free batteries (2)
 Lights working
 Boom, both side
 Cab interior
 Cab mounted, two
 Frame mounted
 Rear view camera with display on monitor
 Signal/warning horn

Engine

Automatic engine speed control
 Caterpillar C7 engine (140 kW)
 Altitude capability to 2300 m
 Fine swing control
 Fuel filter
 High ambient cooling
 Secondary engine shut-off switch
 Side-by-side cooling system with separately mounted AC condenser
 Water separator, with level indicator, for fuel line

Guards

6 mm swivel guard on undercarriage
 Heavy duty bottom guards on upper frame
 Heavy duty travel motor guards on undercarriage

Operator Station

Adjustable armrest
 Air conditioner, heater and defroster with automatic climate control
 Ashtray and 24 volt lighter
 Beverage/cup holder
 Bolt-on FOGS capability
 Capability to install 2 additional pedals
 Coat hook
 Electrical provision for seat heater
 EU sound criteria package
 Floor mat, washable
 Instrument panel and gauges with full color graphical display, start-up level checks
 Laminated front windshield
 Literature compartment
 Mirrors – left and right

Neutral lever (lock out) for all controls
 Positive filtered ventilation, pressurized cab
 Rear window, emergency exit
 Retractable seat belt
 Sliding upper door window
 Stationary skylight (polycarbonate)
 Storage compartment suitable for a lunch box
 Sunshade for windshield and skylight
 Travel control pedals with removable hand levers
 Windshield wiper and washer (upper and lower)

Undercarriage

Automatic swing parking brake
 Automatic travel parking brakes
 Grease lubricated track
 Hydraulic track adjusters
 Idler and center section track guards
 Long (L)
 Long Narrow (LN)
 Steps – four
 Two speed travel

Standard Equipment

Standard equipment may vary. Consult your Caterpillar dealer for specifics.

Other Standard Equipment

Auxiliary hydraulic valve for hydro-mechanical tools
Cat branded XT hoses and reusable couplings
Cat Datalink and capability to use ET
Caterpillar one key security system with locks for doors, cab and fuel cap
Cross-roller type swing bearing

Counterweight with lifting eyes
Drive for auxiliary pump
Heavy lift mode
Regeneration circuit for boom and stick
S•O•SSM quick sampling valves for engine oil, hydraulic oil and coolant
Steel firewall between engine and hydraulic pump compartment
Wiring provisions for Product Link

Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for specifics.

Engine

Caterpillar C7 High power engine (152 kW)

Front Linkage

Bucket linkages

CB2-family for CB2 sticks with lifting eye)

DB-family for DB sticks with lifting eye)

Buckets and quick coupler (pg.11)

Booms (with two working lights)

Reach

– 6150 mm

Mass excavation

– 5550 mm

Sticks

For reach boom

– R2.6CB2

– R3.2CB2

For mass boom

– M2.5DB

Tips

Shoes

Triple grouser

329D L – 600 mm, 800 mm, 900 mm

Heavy duty – 600 mm, 700 mm

329D LN – 600 mm, 800 mm

Heavy duty – 600 mm, 700 mm

Guards

FOGS, bolt-on

Full length for L and LN undercarriage (two piece)

Track end guide for L and LN undercarriage

Operator Compartment

Joysticks

Four button joystick or single action auxiliary control

Thumb wheel modulation joystick

Lunch box storage with lid

Machine security system with programmable keys

Radio

AM/FM radio mounted in right hand console with antenna and speakers

Radio ready mounting at rear location including 24 V to 12 V converter

Seat

Adjustable high-back seat with mechanical suspension

Adjustable high-back seat with air suspension

Adjustable high-back heated seat with air suspension

Straight travel pedal

Visor rain protection

Windshield

1-piece standard duty

1-piece high impact resistant

50-50 split, sliding

70-30 split, sliding

Auxiliary Controls and Lines

Auxiliary boom lines (high pressure for reach and mass booms)

Auxiliary stick lines (high pressure for reach and mass booms)

Basic control arrangements:

- Single action (single action tool such as hammer, with direct return to tank)
- System, combined (single and double action tools, direct return to tank)
- System, Medium Pressure AHC (two directional flow attachment)
- Circuit, Cooling (circulating circuit for cooling hydraulic oil)

Universal control group for quick coupler

Miscellaneous Options

Bio hydraulic oil package

Boom lowering control device with SmartBoom

Cab front rain protector

Converters, 7 amp-12 V

– One

– Two

Electric refueling pump with auto shut-off

Fine filtration filter

Jump start terminals

Starting aid for cold weather with ether

Stick lowering control device

Travel alarm with cut off switch

329D L and 329D LN Hydraulic Excavators

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

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Caterpillar dealer for available options.

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HEHH3856 (07/2008) hr

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