

329D/ 329D L

Hydraulic Excavator

CAT[®]



Engine

Engine Model	Cat [®] C7 with ACERT [™] Technology
Net Flywheel Power	152 kW

Weights

Operating Weight – Std. Undercarriage	26 900 kg
Operating Weight – Long Undercarriage	29 240 kg

329D/329D L Hydraulic Excavator

The D Series incorporates innovations for improved performance and versatility.

Engine

- ✓ The Cat® C7 with ACERT™ Technology offers better fuel consumption and reduced wear. It works at the point of combustion to optimize 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**

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. 12**

Hydraulics

The hydraulic system has been designed to provide reliability and outstanding controllability. An optional Tool Control System provides enhanced flexibility. **pg. 5**

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 configuration to eventual replacement. **pg. 13**

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**



Structures

Caterpillar design and manufacturing techniques assure outstanding durability and service life from these important components. **pg. 8**

Booms and Sticks

Three lengths of booms and sticks are available to suit a variety of application conditions. **pg. 9**

Work Tools – Attachments

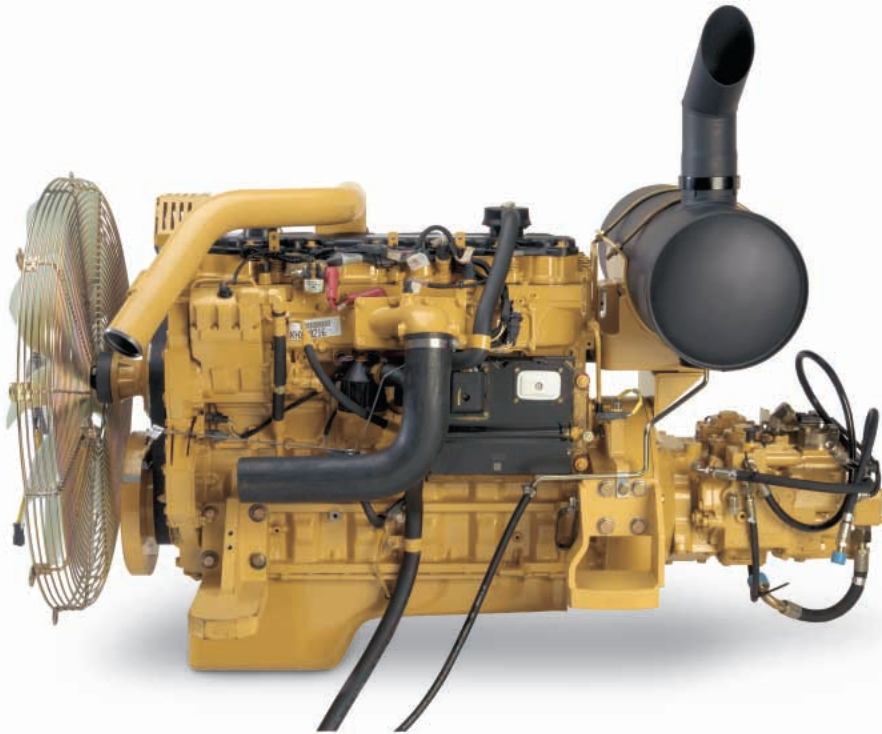
- ✓ A variety of work tools, including buckets, couplers, hammers, and shears are available through Cat Work Tools. **pg. 10**



✓ *New Feature*

Engine

The Cat® C7 gives the 329D exceptional power and fuel efficiency unmatched in the industry for consistently high performance in all applications.



Cat C7. The Cat C7 with ACERT™ Technology introduces a series of evolutionary, incremental improvements that provide breakthrough engine technology. The building blocks of ACERT Technology are fuel delivery, air management and electronic control. ACERT Technology optimizes engine performance while meeting engine emission regulations for off-road applications. 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.

Performance. The Cat C7 with ACERT Technology offers more power, and runs at lower speeds for better fuel efficiency and reduced wear.

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

ADEM™ A4 Engine Controller. The ADEM A4 electronic control module manages fuel delivery to get the best performance per liter of fuel used. The engine management system 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 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.

Flexible Fuel Options.
Economy Mode. Available as standard, economy mode is best utilized in light duty applications and offers the best fuel economy while maintaining the breakout forces and lift capacity enjoyed while in standard power mode.

Power Management. Power Management optimizes 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 and hard digging applications. The standard power mode is recommended for lighter duty applications and optimizes fuel efficiency.

Cooling System. The cooling fan is directly driven from the engine. An electrically controlled viscous clutch fan is available as an attachment to reduce fan noise. The optimum fan speed is calculated based on the target engine speed, coolant temperature, hydraulic oil temperature and actual fan speed. The Cat C7 delivered 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.

Noise Reduction Technologies. The engine mounts are rubber-isolating mounts matched with the engine package. Further noise reduction has been achieved through design changes to the isolated top cover, oil pan, multiple injection strategy, insulated timing cover, sculpted crankcase and gear train refinements.

Hydraulics

Cat hydraulics delivers 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 that 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.

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

Hydraulic Cross Sensing System.

The hydraulic cross sensing system utilizes each of two hydraulic pumps to 100 percent of engine power, under all operating conditions. This improves productivity with faster implement speeds and quicker, stronger pivot turns.

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.



Auxiliary Hydraulic Valve. The auxiliary valve is standard on the 329D. Control Circuits are available as attachments, allowing for operation of high and medium pressure tools such as shears, grapples, hammers, pulverizers, multi-processors and vibratory plate compactors.

Hydraulic Cylinder Snubbers.

Snubbers are 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.

Operator Station

Designed for comfort, simple and easy operation, 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 mounted in front of the right front cab post and is easy to see.

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. The monitor is a full color 400x234 pixels Liquid Crystal Display (LCD) graphic display. The monitor angle can be adjusted to minimize sun glare and has the capability of displaying information in twenty-seven different languages.

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

Under normal conditions or the default condition, the monitor display screen is divided into four areas; clock and throttle dial, gauge, event display and multi-information display.

Clock and Throttle Dial Display.

The clock and throttle dial position are displayed in this area. When Economy mode/Power management system is activated, the icon of the gas station icon will be indicated at the side of the throttle dial.

Gauge Display. Three analog gauges, fuel level, hydraulic oil temperature and coolant temperature, are displayed in this area.

Event Display. Machine information is displayed in this area with the icon and language.

Multi-information Display. This area is reserved for displaying various information that is convenient for the operator. The “CAT” logo mark is displayed when no information is available to be displayed.

Joystick Control. Joystick controls have low lever effort and are designed to match the operator’s natural wrist and arm position. The operator can operate joystick controls with an arm on the armrest and the horizontal and vertical strokes have been designed to reduce operator fatigue.

Seat. A new 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.

Hydraulic Activation Control Lever.

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

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 left console.



Console. 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 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.

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.

Windows. To promote visibility, all glass is affixed directly to the cab, eliminating window frames. The upper front windshield opens, closes and stores on the roof above the operator with a one-touch action release system.

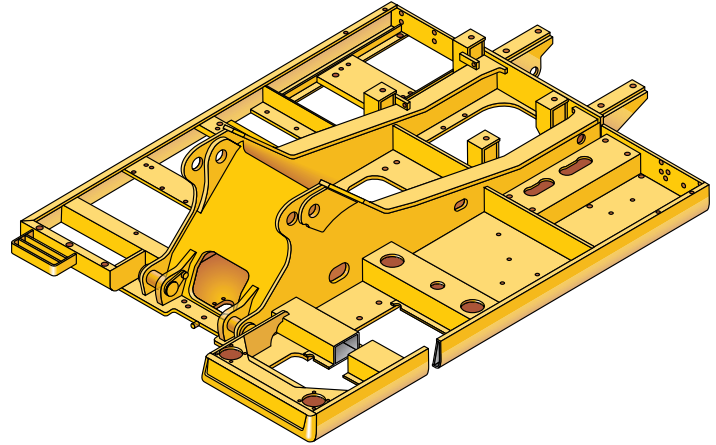
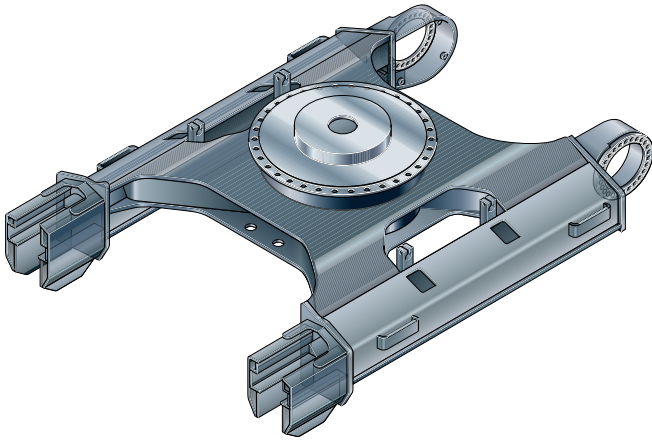
Wipers. Pillar-mounted wipers increase the operator’s viewing area and offer continuous and intermittent modes.

Skylight. An enlarged skylight with sunshade provides excellent visibility and excellent ventilation.

Product Link. Product Link is now an attachment available from the factory.

Structures

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



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 torsion bending. Robot-welded track roller frames are press-formed, pentagonal units to deliver exceptional strength and service life.

Main Frame. Rugged main frame is designed for maximum durability and efficient use of materials.

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

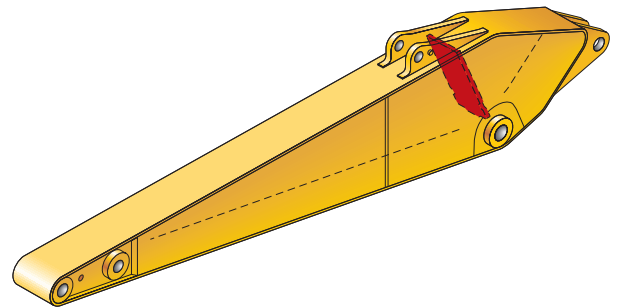
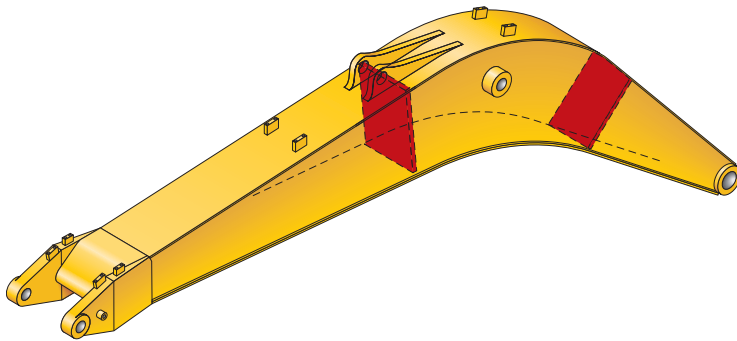
Rollers and Idlers. Sealed and lubricated track rollers, carrier rollers, and idlers provide excellent service life, to keep the machine in the field longer.

Standard Undercarriage. The standard undercarriage is well suited for applications that require frequent repositioning of the machine, have restricted working space or uneven, rocky terrain.

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

Booms and Sticks

Designed-in flexibility to help bring higher production and efficiency to all jobs.



Booms, Sticks and Attachments.

Designed for maximum flexibility, productivity and high efficiency on all jobs, the 329D offers a wide range of configurations suitable for a variety of applications.

Front Linkage Attachments. Three booms and sticks are available, offering a range of configurations suitable for a wide variety of application conditions.

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

Sticks. The sticks are made of high-tensile strength steel using a large box section design with interior baffle plates and an additional bottom guard.

Reach Boom. The reach boom features an optimum design that maximizes digging envelopes with two stick choices:

R3.2CB Stick

- The CB-family bucket associated with these sticks have enough capacity for excellent reach and depth in trenching and general construction applications.

R2.65CB Stick

- Stick is suited to high-capacity buckets used in trenching, excavation, and other general construction work. It has been designed with enough reach and depth to match a large-capacity bucket and high digging force.

Heavy-Duty Reach Boom. Heavy-duty reach boom provides additional strength recommended for tough applications.

R2.65CB and R3.2CB

Heavy-Duty Sticks

- The heavy-duty sticks are reinforced versions of the standard R2.65CB and 3.2CB sticks for use with the heavy-duty reach boom.

Mass Excavation Boom. The mass excavation boom maximizes productivity. The mass version offers significantly higher digging forces and allows use of larger buckets.

M2.5DB Stick

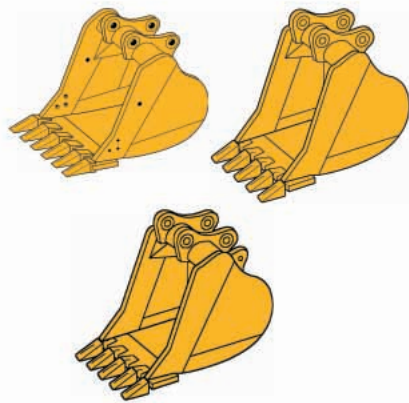
- The DB Stick uses a D-family bucket and was designed for high volume earth moving, powerful digging force and a large capacity bucket. Combined with a Mass boom, this stick delivers outstanding productivity.

Linkage Pins. The bucket linkage pins have been enlarged to improve reliability and durability. All the pins in the front linkages have thick chrome plating, giving them high wear and corrosion resistance.

Bucket Linkage. The power link improves durability, increases machine-lifting capability in key lifting positions and is easier to use than compared to the previous lifting eye.

Work Tools – Attachments

The 329D has an extensive selection of work tools to optimize machine performance.



Service Life. Caterpillar® buckets increase service life and reduce repair costs.

- Dual radius design for increased heel clearance and reduced wear
- Robot welding of hinge assembly for increased weld penetration and longer life
- Incorporates the new aggressive and easier to install, K Series™ GET system
- High strength and heat-treated steel that exceeds T-1 in high wear areas

Excavation Buckets (X). Excavation (X) buckets for digging in low-impact, moderately abrasive materials such as dirt, loam, gravel and clay.

Heavy-Duty Buckets. Heavy-duty (HD) buckets are used for a wide range of moderately abrasive applications such as mixed dirt, clay and rock. HD buckets have best loading and dumping characteristics and will empty easier in cohesive material. More robust construction than the GP buckets.

Heavy-Duty Power (HDP) Buckets.

For use in moderately abrasive applications where breakout force and cycle times are critical. Maximizes tip force and improves cycle times in most materials. Not for use in sticky material conditions. Cutting edge and GET are up-sized.

Heavy-Duty Rock Buckets. Heavy-duty rock for aggressive bucket loading in highly abrasive application such as shot rock and granite. Features include:

- Thicker wear plates to extend the life of bucket in severe applications
- Side wear plated extend further up the side of the bucket for maximum protection in rocky soils
- Buckets accept sidebar protectors for best sidebar protection, or side cutters for best fill characteristics and bucket wear protection

Caterpillar Ground Engaging Tools (GET).

The new Caterpillar K Series GET is featured on the new buckets. This new GET system uses a vertical retainer that is easier to remove and install than the Cat J Series pin. The new tooth shapes are more aggressive and offer better penetration than the previous generation of tips. There are also a variety of side cutters and sidebar protectors to match operating conditions.



Tool Control System. The tool control system maximizes work tool productivity by configuring hydraulic flow, pressure, and operator controls to match a specific work tool. System versatility enables a wide range of tools to be used.

Versatility

A wide variety of optional factory-installed attachments to enhance performance and improve job site management.



Hammer

Cat Hydraulic Hammers are precisely matched to Cat machines for optimum performance in a wide variety of demolition and construction applications.



Multi-processor

Multi-processors do the work of many types of demolition tools by use of interchangeable jaw sets. Changing jaws allows a single unit to crush, pulverize and perform a variety of specialized cutting tasks, such as cutting steel rebar and tanks.



360° Scrap Shear

Caterpillar Scrap Shears feature 360° rotation and high force-to-weight ratio. Used for demolishing steel structures and preparing bulk scrap (such as cars, farm machinery and railroad cars) for further processing.



Thumb

Cat® thumbs multiply the capacities of your excavator. This highly versatile tool works in conjunction with the bucket to transform an excavator into a versatile material-handling machine.



Vibratory Plate Compactor

Caterpillar® Vibratory Plate Compactors provide superior compaction force in a reliable, low-maintenance package. These units produce high-power impulses at a rate of 2,200 impacts per minute. The forces generated by this vibration drive soil particles close together for solid, stable compactions. Whether in a trench or on a slope, driving sheeting or posts, Cat Compactors are the superior choice for any jobsite's compaction tasks.



Pin-Grabber Quick Coupler

Pin-Grabber Plus Quick Couplers multiply the versatility and utility of Cat Excavators by allowing them to pick up and use virtually any work tool equipped with standard pins.

Dedicated Quick Coupler. Quick Couplers increase the versatility of Cat excavators; allowing the ease of changing work tools to meet job requirements at hand in a matter of minutes or seconds. Dedicated quick coupler buckets have no loss of tip radius, and develop maximum breakout force.

Service and Maintenance

Simplified service and maintenance features save you time and money.



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.

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.

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

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

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.

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

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

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



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

Extended Service Interval. 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.



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 down time. Save money with remanufactured components.

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. Look past initial price. 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.

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.

SAFETY.CAT.COM™.

Engine

Engine Model	Cat C7 with ACERT Technology
Net Flywheel Power	152 kW
Net Power – ISO 9249	152 kW
Bore	110 mm
Stroke	127 mm
Displacement	7.2 L

- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- No engine derating needed up to 2300 m.

Weights

Operating Weight – Std. Undercarriage	26 900 kg
Operating Weight – Long Undercarriage	29 240 kg

- Reach boom, R3.2CB2 Stick, 1.1 m³ Bucket, 600 mm Shoes
- Reach boom, R3.2CB2 Stick, 1.1 m³ Bucket, 800 mm Shoes

Track

Standard w/Standard Undercarriage	600 mm
Standard w/Long Undercarriage	800 mm
Optional	600 mm
Optional	700 mm
Optional	800 mm

Swing Mechanism

Swing Speed	10.2 rpm
Swing Torque	82.2 kN•m

Drive

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

Hydraulic System

Main Implement System – Maximum Flow (2x)	235 L/min
Max. Pressure – Equipment	35 000 kPa
Max. Pressure – Travel	35 000 kPa
Max. Pressure – Swing	27 500 kPa
Pilot System – Maximum Flow	32.4 L/min
Pilot System – Maximum Pressure	3900 kPa
Boom Cylinder – Bore	140 mm
Boom Cylinder – Stroke	1407 mm
Stick Cylinder – Bore	150 mm
Stick Cylinder – Stroke	1646 mm
CB1 Family Bucket Cylinder – Bore	135 mm
CB1 Family Bucket Cylinder – Stroke	1156 mm
DB Family Bucket Cylinder – Bore	150 mm
DB Family Bucket Cylinder – Stroke	1156 mm

Service Refill Capacities

Fuel Tank Capacity	520 L
Cooling System	30 L
Engine Oil	30 L
Swing Drive	10 L
Final Drive (each)	6 L
Hydraulic System (including tank)	310 L
Hydraulic Tank	145 L

Sound Performance

Performance	ANSI/SAE
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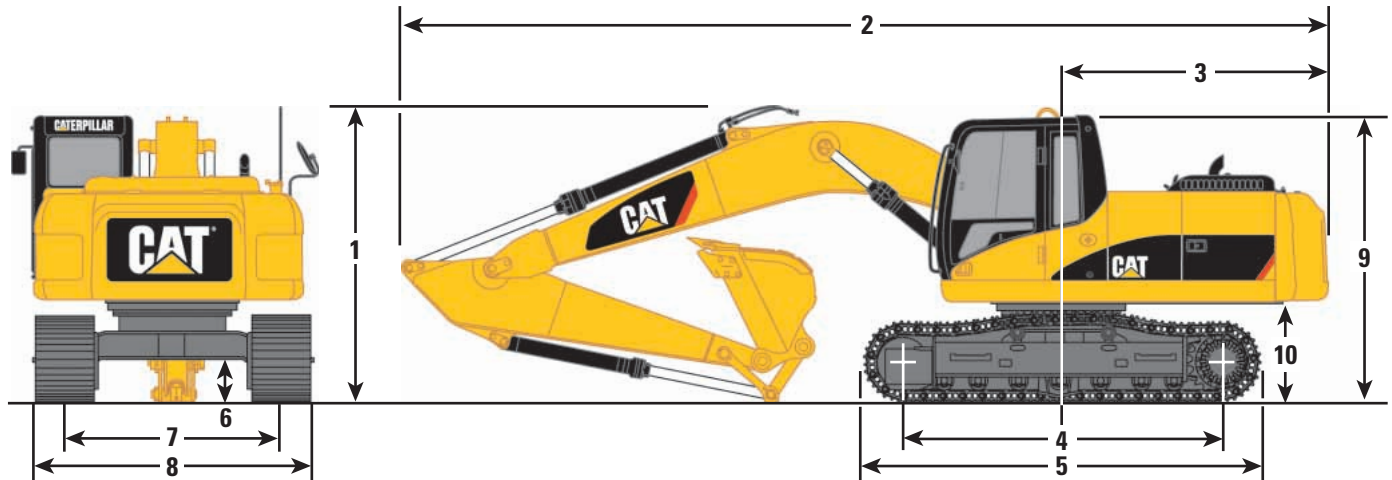
- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT 98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.

Standards

Brakes	SAE J1026 APR90
Cab/FOGS	SAE J1356 FEB88 ISO 10262

Dimensions

All dimensions are approximate.



Boom Options	Reach – 6.15 m		Mass – 5.55 m
Stick Options	R3.2CB2	R2.65CB2	M2.5DB
1 Shipping height**	3180 mm	3190 mm	3250 mm
2 Shipping length	10 410 mm	10 420 mm	9860 mm
3 Tail swing radius	3080 mm	3080 mm	3080 mm
Undercarriage	Fixed Gauge		Long Fixed Gauge
4 Length to centers of rollers	3490 mm		3990 mm
5 Track length	4360 mm		4860 mm
6 Ground clearance***	490 mm		490 mm
7 Track gauge	2390 mm		2590 mm
8 Shipping width*	2990 mm		3190 mm
9 Cab height**	3040 mm		3040 mm
10 Counterweight clearance***	1110 mm		1110 mm

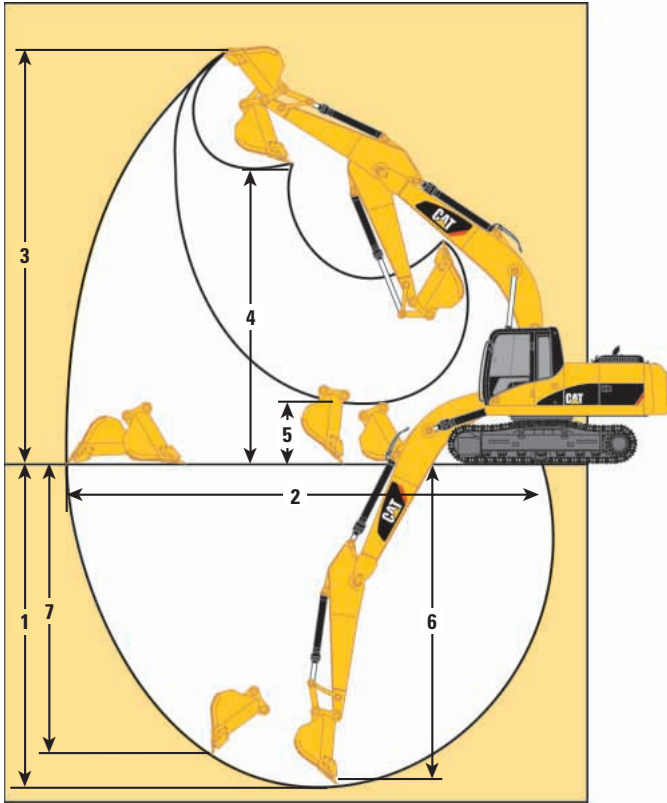
* Track width shown is for 600 mm track shoes.

** Includes 30 mm shoe lug height.

*** Without 30 mm shoe lug height.

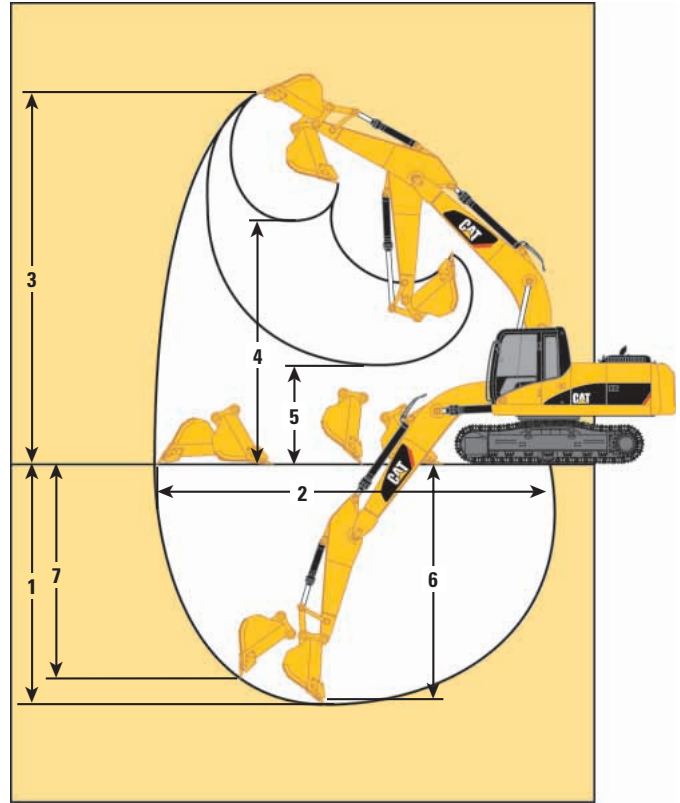
Reach Excavator Working Ranges

Reach (R) boom configuration



Mass Excavator Working Ranges

Mass (M) boom configuration



Boom Options

Reach – 6.15 m

Mass – 5.55 m

Stick Options

R3.2CB2

R2.65CB2

M2.5DB

Stick Options	R3.2CB2	R2.65CB2	M2.5DB
1 Maximum digging depth	7170 mm	6620 mm	6010 mm
2 Maximum reach at ground level	10 600 mm	10 130 mm	9340 mm
3 Maximum cutting height	9990 mm	9880 mm	9150 mm
4 Maximum loading height	7020 mm	6870 mm	6090 mm
5 Minimum loading height	2370 mm	2920 mm	2560 mm
6 Maximum depth cut for 2440 mm level bottom	7010 mm	6440 mm	5810 mm
7 Maximum vertical wall digging depth	6510 mm	5980 mm	4710 mm
Bucket digging force (ISO)	188 kN	188 kN	222 kN
(SAE)	166 kN	166 kN	198 kN
Stick digging force (ISO)	128 kN	147 kN	155 kN
(SAE)	124 kN	142 kN	150 kN

Major Component Weights

	kg
Base machine with counterweight and 600 mm shoes (without front linkage)	21 620
Two boom cylinders	548
Counterweight	
Standard Machine	5410
Boom (includes lines, pins and stick cylinder)	
Reach boom	2299
Mass boom	2374
Stick (includes lines, pins, bucket cylinder and linkage)	
R3.2CB2	1392
R2.65CB2	1299
M2.5DB	1455
Track roller frame [includes frame, rollers, idlers, steps, guards, final drive, 600 mm shoes] – each	9440

329D Bucket Specifications and Compatibility

	Capacity*	Width	Tip Radius	Weight (w/o tips)	Teeth	Total Weight	Reach Stick		Mass Stick
	m ³	mm	mm	kg	Qty	kg	R3.2CB2	R2.65CB2	M2.5DB
CB2 Buckets									
Excavation	1.1	1320	1555	857	5	857	●	●	—
	1.2	1420	1555	896	5	896	●	●	—
Heavy Duty	1.3	1390	1578	1033	6	1033	◐	●	—
Mass Excavation	1.5	1600	1578	1035	6	1035	◑	●	—
DB Buckets									
Excavation	1.4	1470	1660	1101	5	1101	—	—	●
	1.5	1560	1660	1144	5	1144	—	—	●
Mass Excavation	1.6	1540	1660	1191	6	1191	—	—	◑

329D L Bucket Specifications and Compatibility

	Capacity*	Width	Tip Radius	Weight (w/o tips)	Teeth	Total Weight	Reach Stick		Mass Stick
	m ³	mm	mm	kg	Qty	kg	R3.2CB2	R2.65CB2	M2.5DB
CB2 Buckets									
Excavation	1.1	1320	1555	857	5	857	●	●	—
	1.2	1420	1555	896	5	896	●	●	—
Heavy Duty	1.3	1390	1578	1033	6	1033	●	●	—
Mass Excavation	1.5	1600	1578	1035	6	1035	●	●	—
DB Buckets									
Excavation	1.4	1470	1660	1101	5	1101	—	—	●
	1.5	1560	1660	1144	5	1144	—	—	●
Mass Excavation	1.6	1540	1660	1191	6	1191	—	—	●

Assumptions for maximum material density rating:

1. Front linkage fully extended at ground line
2. Bucket curled
3. 100% bucket fill factor

* Based on SAE J296, some calculations of capacity specs fall on borderlines. Rounding may allow two buckets to have the same English rating, but different metric ratings.

- 2100 kg/m³ max material density
- ◑ 1800 kg/m³ max material density
- ◐ 1500 kg/m³ max material density
- ∴ 1200 kg/m³ max material density
- Not Available

329D/329D L Work Tool Matching Guide

Boom Options	Reach Boom – 6.15 m		Mass Boom – 5.55 m
Stick Options	R3.2CB2	R2.65CB2	M2.5DB
Hydraulic Hammer	H120Cs/ H130Cs/ H140Cs	H120Cs/ H130Cs/ H140Cs	H120Cs/ H130Cs/ H140Cs
Vibratory Plate Compactor	CVP110	CVP110	CVP110
Multi-Processor	MP15/MP20	MP15/MP20	n/a
360 Scrap Shear	S320	S320/S325	n/a
Trash Grapple	3.1 m ³	3.1 m ³	4.6 m ³
Contractors' Grapple	yes	yes	n/a
Hydraulic Thumb	yes	yes	n/a
Dedicated Quick Coupler	yes	yes	yes
Pin-Grabber Quick Coupler	yes	yes	yes

Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach

R3.2CB2 STICK – 3200 mm
BUCKET – 1.1 m³

UNDERCARRIAGE – Standard
SHOES – 600 mm triple grouser

BOOM – 5800 mm

Load Point Height	kg	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		m		
		Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	
9.0 m	kg													*3900	*3900	6.82
7.5 m	kg									*4900	4400			*3650	*3650	7.89
6.0 m	kg									*5900	4350			*3450	3050	8.83
4.5 m	kg							*7350	6200	6200	4150	4400	2850	*3450	2600	9.40
3.0 m	kg					*12 800	8950	8650	5750	5950	3900	4300	2750	*3550	2350	9.70
1.5 m	kg					*11 600	8150	8200	5300	5700	3700	4150	2650	3600	2250	9.73
Ground Line	kg					*12 300	7900	7900	5050	5500	3500	4050	2550	3700	2300	9.52
-1.5 m	kg			*6700	*6700	12 750	7900	7800	4950	5400	3450			4050	2500	9.03
-3.0 m	kg			*13 400	*13 400	12 900	8000	7850	5000	5450	3500			4750	3000	8.23
-4.5 m	kg			*14 050	*14 050	*11 800	8300	8050	5150					6300	4100	7.00

R3.2CB2 STICK – 3200 mm
BUCKET – 1.35 m³

UNDERCARRIAGE – Standard
SHOES – 600 mm triple grouser

BOOM – 5800 mm

Load Point Height	kg	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		m		
		Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	
9.0 m	kg													*4150	*4150	6.56
7.5 m	kg									*4400	4400			*3350	*3350	8.08
6.0 m	kg									*5850	4250			*3350	3000	8.81
4.5 m	kg							*7150	6200	6150	4100	4300	2800	*3500	2600	9.24
3.0 m	kg					*12 200	9100	8650	5750	5900	3850	4200	2700	*3600	2350	9.56
1.5 m	kg					*13 100	8250	8200	5300	5650	3650	4100	2550	3600	2200	9.63
Ground Line	kg					*12 600	7900	7900	5000	5450	3450	4000	2500	3650	2250	9.44
-1.5 m	kg			*6600	*6600	12 750	7850	7750	4900	5350	3400			3950	2450	9.01
-3.0 m	kg			*14 700	*14 700	12 850	7950	7750	4900	5400	3400			4600	2900	8.27
-4.5 m	kg			*16 150	*16 150	*12 300	8200	7950	5100					6050	3900	7.12

R3.2CB2 STICK – 3200 mm
BUCKET – 1.35 m³

UNDERCARRIAGE – Standard
SHOES – 800 mm triple grouser

BOOM – 5800 mm

Load Point Height	kg	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		m		
		Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	
9.0 m	kg													*4150	*4150	6.56
7.5 m	kg									*4400	*4400			*3350	*3350	8.08
6.0 m	kg									*5850	4400			*3350	3150	8.81
4.5 m	kg							*7150	6350	6350	4250	4450	2900	*3500	2700	9.24
3.0 m	kg					*12 200	9350	*8750	5900	6100	4000	4350	2800	*3600	2450	9.56
1.5 m	kg					*13 100	8500	8450	5500	5850	3800	4250	2650	3750	2300	9.63
Ground Line	kg					*12 600	8150	8150	5200	5650	3600	4150	2600	3800	2350	9.44
-1.5 m	kg			*6600	*6600	13 150	8100	8000	5100	5550	3500			4100	2550	9.01
-3.0 m	kg			*14 700	*14 700	13 250	8200	8050	5100	5600	3550			4800	3000	8.27
-4.5 m	kg			*16 150	*16 150	*12 300	8450	8200	5250					6250	4050	7.12

*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.

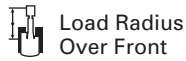
Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface.

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

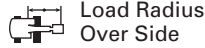
Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach

R2.65CB2 STICK – 2650 mm
BUCKET – 1.35 m³

UNDERCARRIAGE – Long
SHOES – 600 mm triple grouser

BOOM – 5800 mm

Load Point Height	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		Load at Maximum Reach		m
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	
9.0 m	kg										*4600	*4600	6.50
7.5 m	kg										*3350	*3350	7.53
6.0 m	kg								*6600	4800	*4400	3900	8.32
4.5 m	kg						*7950	6900	*7000	4650	*4650	3400	8.76
3.0 m	kg						*9500	6500	7400	4450	*4800	3100	9.09
1.5 m	kg						10 400	6100	7150	4250	*5050	3000	9.16
Ground Line	kg						10 150	5900	7000	4100	5250	3050	8.97
-1.5 m	kg				*15 500	9350	10 050	5850	6950	4050	5700	3350	8.50
-3.0 m	kg		*16 650	*16 650	*13 950	9500	10 150	5900			6750	3950	7.72
-4.5 m	kg				*11 050	9750	*8250	6100			*7150	5500	6.45

R2.65CB2 STICK – 2650 mm
BUCKET – 1.35 m³

UNDERCARRIAGE – Long
SHOES – 800 mm triple grouser

BOOM – 5800 mm

Load Point Height	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		Load at Maximum Reach		m
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	
9.0 m	kg										*4600	*4600	6.50
7.5 m	kg										*3350	*3350	7.53
6.0 m	kg								*6600	4950	*4400	4050	8.32
4.5 m	kg						*7950	7150	*7000	4800	*4650	3550	8.76
3.0 m	kg						*9500	6700	7650	4600	*4800	3250	9.09
1.5 m	kg						10 750	6350	7450	4450	*5050	3100	9.16
Ground Line	kg						10 500	6100	7300	4300	5450	3200	8.97
-1.5 m	kg				*15 500	9650	10 450	6050	7250	4250	5950	3450	8.50
-3.0 m	kg		*16 650	*16 650	*13 950	9800	10 500	6100			7000	4150	7.72
-4.5 m	kg				*11 050	10 100	*8250	6350			*7150	5700	6.45

R2.65CB2 STICK – 2650 mm
BUCKET – 1.1 m³

UNDERCARRIAGE – Standard
SHOES – 600 mm triple grouser

BOOM – 5800 mm

Load Point Height	2.0 m		3.0 m		4.5 m		6.0 m		7.5 m		Load at Maximum Reach		m
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	
9.0 m	kg										*4550	*4550	6.62
7.5 m	kg										*4850	4550	7.29
6.0 m	kg								6350	4300	*4550	3500	8.30
4.5 m	kg				*10 550	9850	*8200	6150	6200	4150	4500	2950	8.92
3.0 m	kg						8600	5700	5950	3950	4150	2650	9.23
1.5 m	kg						8200	5350	5750	3750	4000	2550	9.26
Ground Line	kg						8000	5150	5600	3600	4150	2650	9.04
-1.5 m	kg				*12 550	8150	7950	5100	5550	3600	4550	2950	8.52
-3.0 m	kg		*14 450	*14 450	13 200	8300	8050	5200			5500	3550	7.66
-4.5 m	kg				*10 450	8600	*7750	5450			*7000	5050	6.31

*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.

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

Standard Equipment

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

Upper Structure

Electrical

- Alternator, 80A
- Light, storage box mounted (one)
- Signaling/Warning horn

Engine

- Cat C7 with ACERT Technology
- 2300 m altitude capability with no deration
- Air intake heater
- Automatic engine speed control
- Radial seal air filter
- Water separator in fuel line
- Waved fin radiator with space for cleaning
- 2 micron fuel filter
- Automatic swing parking brake
- Boom drift reducing valve
- Boom lowering device for back-up
- Caterpillar one key security system
- Counterweight 5.8 mt
- Door locks and cap locks
- Mirrors, rearview (frame-right, cab-left)
- Regeneration circuit for boom and stick
- Reverse swing damping valve
- Stick drift reducing valve
- Two speed travel

Operator Station

Cab

- Adjustable armrest
- Ashtray with lighter
- Beverage holder
- Bi-Level air conditioner (automatic) with defroster
- Bolt-on FOGS capability
- Capability of installing two additional pedals
- Coat hook
- Front windshield glass split 70/30
- Interior lighting
- Literature holder
- Mounting for two stereo speakers (two locations)
- Neutral lever (lock out) for all controls
- Openable front windshield with assist device
- Openable skylight
- Pillar mounted upper windshield wiper and washer
- Pressurized cab (positive filtered ventilation)
- Radio mounting (DIN size)
- Rear window, emergency exit
- Removable lower windshield with in-cab storage bracket
- Seat with integrated, adjustable console
- Seat belt, retractable (50.8 mm width)
- Sliding upper door window
- Storage compartment suitable for lunch box
- Travel control pedals with removable hand levers
- Utility space for magazine
- Washable floor mat

Monitor

- Economy mode
- Full time clock
- Language display – Full color and graphical display
- Machine condition, error code and tool mode setting
- Start-up level check for hydraulic oil, engine oil and coolant
- Warning information, filter/fluid change information and working hour

Undercarriage

- Grease lubricated GLT2, resin seal
- Idler and center section track guiding
- 800 mm triple grouser track shoe (329D L)
- 600 mm triple grouser track shoes (329D)

Optional Equipment

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

Front Linkage

- Bucket linkage, CB2-family with lifting eye
- Bucket linkage, DB-family with lifting eye
- Heavy-duty 6.15 m reach boom
(with left and right side light)
- Heavy-duty 2.65 m stick for heavy-duty reach boom
- Reach boom 6.15 m with left and right side light
 - R3.2CB 3200 mm stick
 - R3.0CB 3000 mm stick
 - R2.65CB 2650 mm stick
- Mass boom 5.55 m with left and right side light
 - M3.2CB 3200 mm stick
 - M2.5DB 2500 mm stick

Track

- Standard undercarriage
 - 700 mm triple grouser shoes
 - 800 mm triple grouser shoes
- Long Undercarriage
 - 600 mm triple grouser shoes
 - 700 mm triple grouser shoes

Guards

- FOGS, bolt-on
- Guard, cab front
- Guard, cab top
- Guard, full length for long and long narrow undercarriage
(two piece)
- Guard, heavy-duty bottom, 4 mm, without swivel guard
and travel motor protection
- Guard, track end guide for long, long narrow undercarriage
- Guard, track end guide for standard undercarriage
- Guard, vandalism
- Heavy-duty swivel protection, 16 mm, swivel guard only
- Heavy-duty travel motor protection
- Net for front guard (full net, one piece)
- Net for front guard (half net, one piece)
- Swivel protection, 6 mm, swivel guard only

Auxiliary Hydraulics and Lines

- Additional circuit
 - Hammer return filter circuit
- Boom and stick lines
 - Cat quick coupler line (high and medium pressure capable)
 - Drain line
 - High pressure line
 - Medium pressure line
- Quick coupler
 - Quick coupler for high pressure
- Tool control system
 - Configuration 1 (hammer 1), foot pedal operated 1P,
one-way circuit
 - Configuration 2 (common), foot pedals operated 1/2P,
common circuit
 - Configuration 3 (hammer 2), foot pedal operated 2P,
one-way circuit

Operator Station

- Tempered glass windows
- Polycarbonate windows
- Power supply, 12V-7A (1)
- Power supply, 12V-7A (2)
- Rear window emergency exit
- Seat, high-back air suspension
- Seat, high-back air suspension with heater
- Seat, high-back mechanical suspension
- Sunscreen
- Windshield wiper, lower with washer
- Working lights, cab mounted
- Rain protector for front windshield
- Sun visor
- AM/FM radio
- Control pattern quick-changer, two way
- Control pattern quick-changer, four way
- Cat MSS (anti-theft device)
- Lunch box with cover
- Water level indicator for water separator

Other Optional Equipment

- Additional gear train for auxiliary pump
- Air pre-filter
- Cooling package, high ambient with VSF
- Cooling package, semi-high ambient
- Electric refueling pump with auto shut off
- Starting kit, cold weather, -32° C
- Travel alarm

329D/329D L Hydraulic Excavator

For more complete information on Cat products, dealer services,
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