

325D L 325D 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 31 400 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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325D L and 325D 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.

✓ *New feature*



Electronic Control System

- ✓ The compact, full-color, graphical display monitor displays machine, maintenance, diagnostic and prognostic information in twenty different languages. The new Economy Mode and Power Management is also 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. Three types of booms and four 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 325D 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 325D 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 325D 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 325D 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 325D. 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 325D 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.



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
- 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 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.

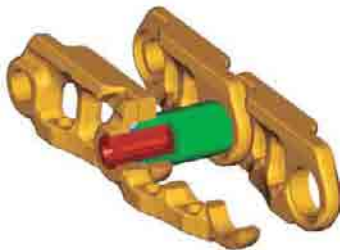
Multi-information Display Area. This area is reserved for displaying information that is convenient for the operator. The "CAT" logo mark is displayed when information to display does not exist.

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



Structure

325D structural components and undercarriage are the backbone of the machine's durability.



Tracks. The 325D 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. A 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 325D 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 325D 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. 325D 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.

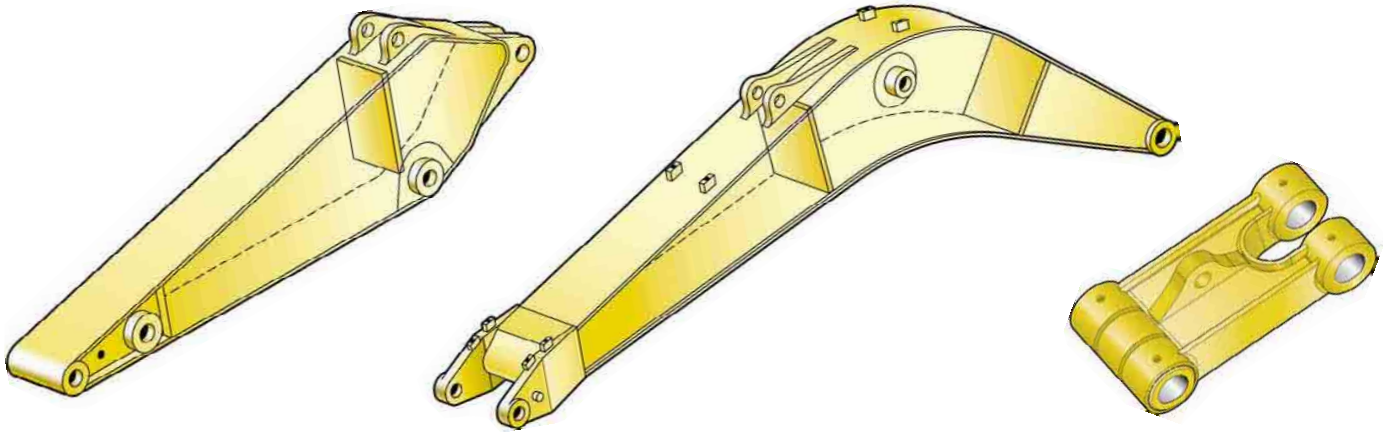
Product Support. You will find nearly all parts at our dealer parts counter. Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine downtime. You can save money with Cat remanufactured components.

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. Three types of booms and four 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.

Variable Adjustable Boom. It offers superb flexibility and versatility in the working envelope. Boom position can be adjusted from 90° when fully retracted to 165° when fully extended. With full extension, the working range gives both maximum dig depth, reach and working height. Equally, when the VA boom is retracted, it can work closer to its tracks, increase lifting capacity and work in confined areas.

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. Three lengths of reach sticks are available to suite a variety of applications. Reach sticks use CB2 and DB linkages.

- 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.
- R2.0DB. The 2000 mm stick uses higher capacity DB family buckets for high production 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.

Reach Sticks with VA Boom.

The 3200 mm, 2650 and 2000 mm sticks provide the necessary strength in digging, lifting and hammering applications with the VA boom.



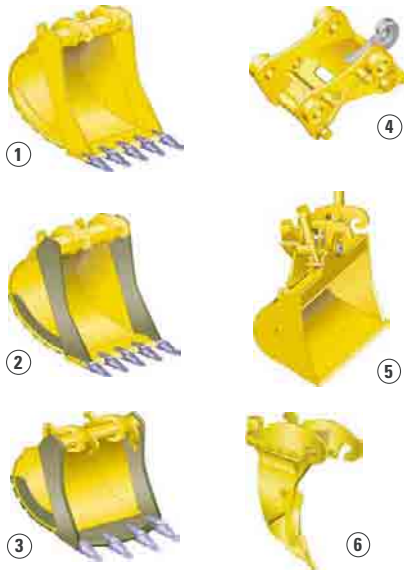
Bucket Linkage. Two bucket linkages (CB2 and DB) are available, with lifting eye on the power link.

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

						Reach boom 6150 mm						ME 5550 mm		
Without Quick Coupler	Linkage	Width	Weight*	Capacity (ISO)	Fill Factor	325D L			325D LN			325D L	325D LN	
						2000 mm	2650 mm	3200 mm	2000 mm	2650 mm	3200 mm	2500 mm		
		mm	kg	m ³	%									
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		×	×		×	×			
	DB	1700	1558	2.14	100		×	×		×	×			
DB	1800	1616	2.29	100		×	×	N	×	×				
Extreme Excavation	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		×	×		×	×			
	DB	1700	1710	2.14	100		×	×	N	×	×			
Rock	DB	1000	1257	1.11	90		×	×		×	×			
	DB	1650	1820	2.07	90		×	×		×	×			
Maximum load in kg (payload plus bucket)						5008	4539	4098	4376	3985	3584	5288	4632	
With Quick Coupler														
Excavation	CW40, CW40S	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		×	×	N	×	×		
		DB	1650	1511	2.07	100		×	×	N	×	×		
		DB	1700	1539	2.14	100		×	×	N	×	×		
Extreme Excavation	CW40, CW40S	CB2	750	675	0.67	100	×			×			×	×
		CB2	1150	878	1.16	100	×			×			×	×
		CB2	1350	966	1.42	100	×			×			×	×
		CB2	1450	1034	1.55	100	×			×			×	×
		CB2	1500	1056	1.61	100	×			×			×	×
		CB2	1600	1100	1.74	100	×			×			×	×
		DB	1350	1436	1.62	100		×	×		×	×		
	CW45, CW45S	DB	1500	1531	1.84	100		×	×		×	×		
		DB	1600	1629	1.99	100		×	×	N	×	×		
		DB	1650	1661	2.07	100		×	×	N	×	×		
		DB	1700	1691	2.14	100		×	×	N	×	×		
Rock	DB	1000	1277	1.11	90		×	×		×	×			
	DB	1650	1760	2.07	90		×	×	N	×	×			
Maximum load in kg (payload plus bucket)						4558	4289	3848	3926	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		Reach boom 6150 mm						ME 5550 mm	
		325D L			325D LN			325D L/LN	
		2000	2650	3200	2000	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		N
	MP30 PP, PS	N	N	N	N	N	N		N
Crushers and Pulverizers	VHC-40								
	VHC-50		N	N	N	N	N		
	VHP-40								
	VHP-50		N	N	N	N	N		
Hydraulic Shears	S320								
	S325			N					
	S340*								
Mechanical Grapples	G115								
	G125			N	N	N	N		
Multi Grapples	G320								
	G330		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		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-40	N			N			N	N
	CW-45								
	CW-40S	N			N			N	N
	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	N		N
	VHP-40								
	VHP-50	N	N	N	N	N	N		N
Hydraulic Shears	S320								
	S325		N	N	N	N	N		
Mechanical Grapples	G115								
	G125		N	N	N	N	N		N
Multi Grapples	G315	N			N			N	N
	G320			N		N	N		
	G330		N	N		N	N		N
	G320B-D, -R	N			N			N	N
Vibratory Plate Compactor	CVP110								

360° Working range

Best choice

Max. Material Density 1200 kg/m³

Over the front only

Quick coupler match

Max. Material Density 1800 kg/m³

N Not recommended

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

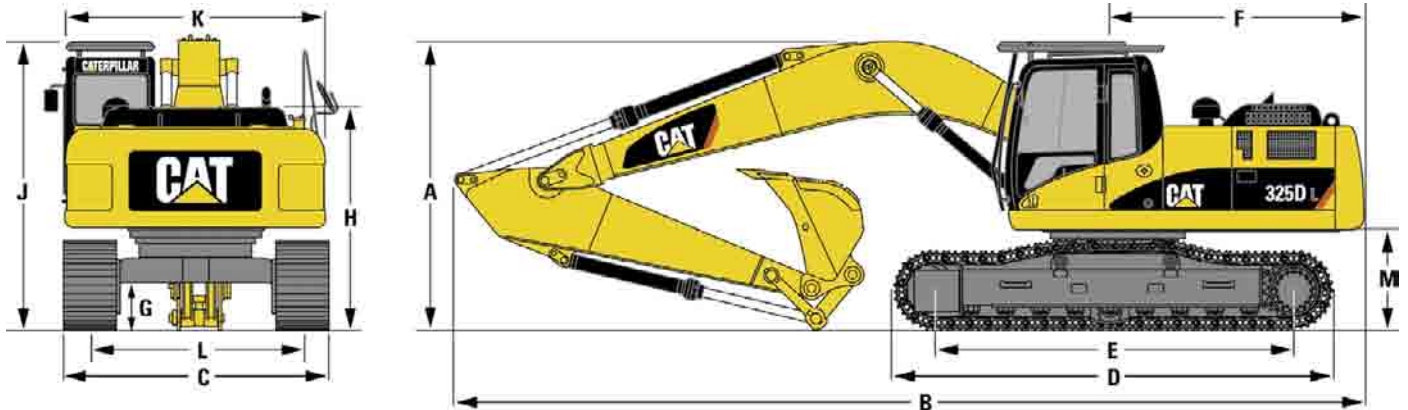
Actual weights and ground pressures will depend on final machine configuration.

		Reach boom 6150 mm			ME 5550 mm	VA boom 5850 mm		
		R2.0DB	R2.6CB2	R3.2CB2	M2.5DB	R2.0DB	R2.6CB2	R3.2CB2
Stick type								
Stick length	mm	2000	2650	3200	2500	2000	2650	3200
Bucket weight	kg	1314	925	884	1436	1314	925	884
Bucket capacity	m ³	1.6	1.5	1.35	1.6	1.6	1.5	1.35
Bucket width/type	mm	1350/X	1400/X	1300/X	1350/EX	1350/X	1400/X	1300/X
Operating weight*								
325D L (800 mm shoes)	kg	30 160	29 430	29 560	30 110	31 350	30 620	30 750
325D LN (600 mm shoes)	kg	29 140	28 410	28 540	29 100	30 330	29 600	29 730
Ground pressure								
325D L (800 mm shoes)	bar	0.44	0.43	0.43	0.44	0.45	0.44	0.44
325D LN (600 mm shoes)	bar	0.57	0.56	0.56	0.57	0.58	0.57	0.57
Stick weight (without bucket cylinder)	kg	900	840	945	980	900	840	945
Boom weight (without stick cylinder)	kg		1770		1830		2650	
Upperstructure (without counterweight)	kg		6770		6770		6770	
Undercarriage								
325D L (800 mm shoes)	kg		11 400		11 400		11 400	
325D LN (600 mm shoes)	kg		10 380		10 380		10 380	
Counterweight	kg		5810		5810		5810	

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

Dimensions

All dimensions are approximate.



	mm		mm		mm
A Shipping height (with bucket)		B Shipping length		C Track width	
Reach boom		Reach boom		325D L (800 mm shoes)	3390
2000 mm stick	3180	2000 mm stick	10 560	325D LN (600 mm shoes)	2990
2650 mm stick	3190	2650 mm stick	10 420	D Track length	4860
3200 mm stick	3180	3200 mm stick	10 410	E Length to centers of rollers	3990
Mass Excavation boom		Mass Excavation boom		F Tail swing radius	3080
2500 mm stick	3250	2500 mm stick	9860	G Ground clearance	480
VA boom		VA boom		H Body height	2610
2000 mm stick	3370	2000 mm stick	10 620	J Cab height	3170
2650 mm stick	3390	2650 mm stick	10 480	K Body width	2900
3200 mm stick	3420	3200 mm stick	10 480	L Track gauge	
				325D L	2590
				325D LN	2390
				M Counterweight clearance	1080

Track Width

Standard Undercarriage with triple grouser shoes	
Long (L)	800 mm
Long Narrow (LN)	600 mm
Optional Undercarriage with triple grouser shoes	
Long (L)	600 mm, 900 mm 600 mm HD, 700 mm HD
Long Narrow (LN)	800 mm 600 mm HD, 700 mm HD

Drive

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

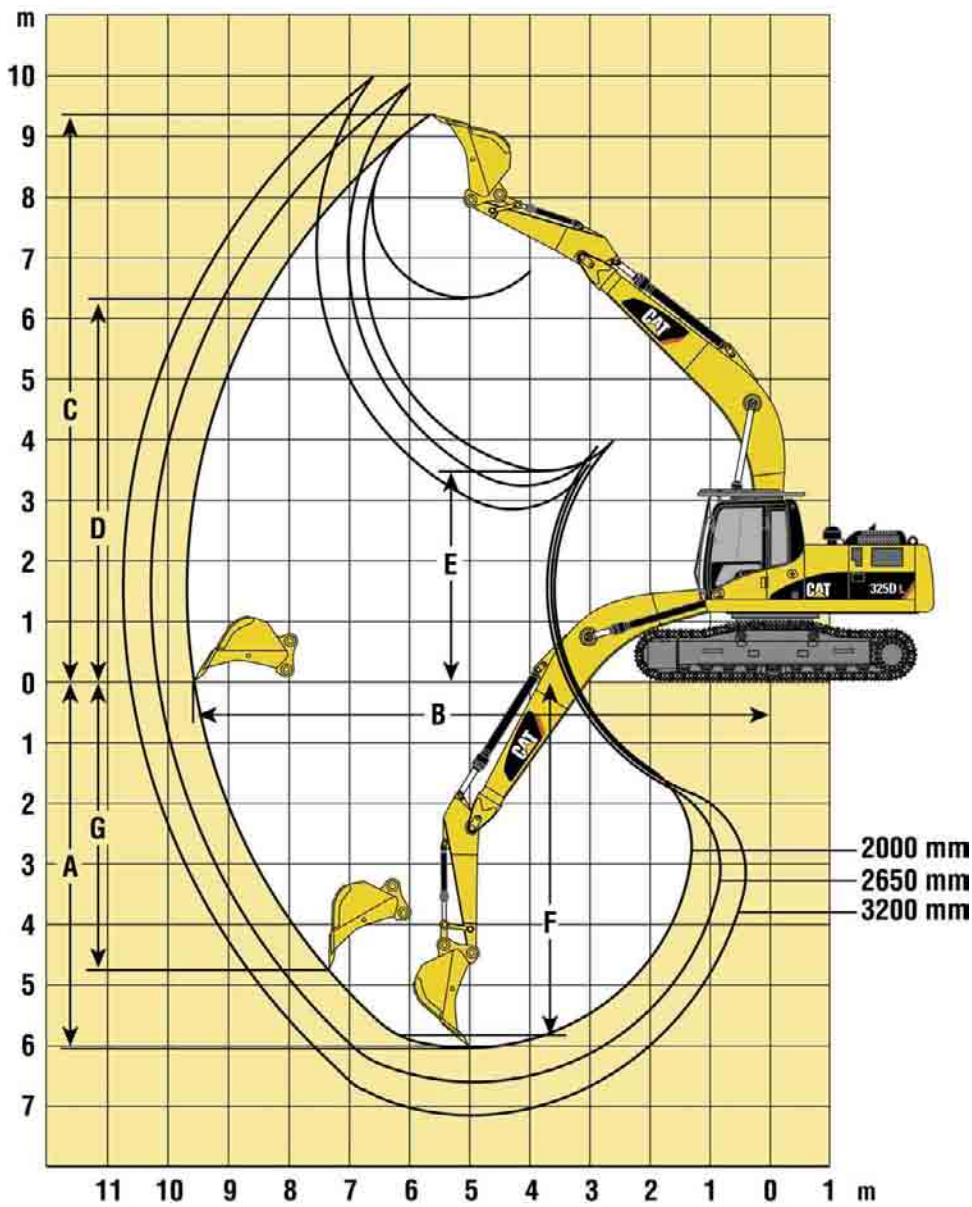
Swing Mechanism

Swing Speed	10.2 rpm
Swing Torque	82.2 kNm

Service Refill Capacities

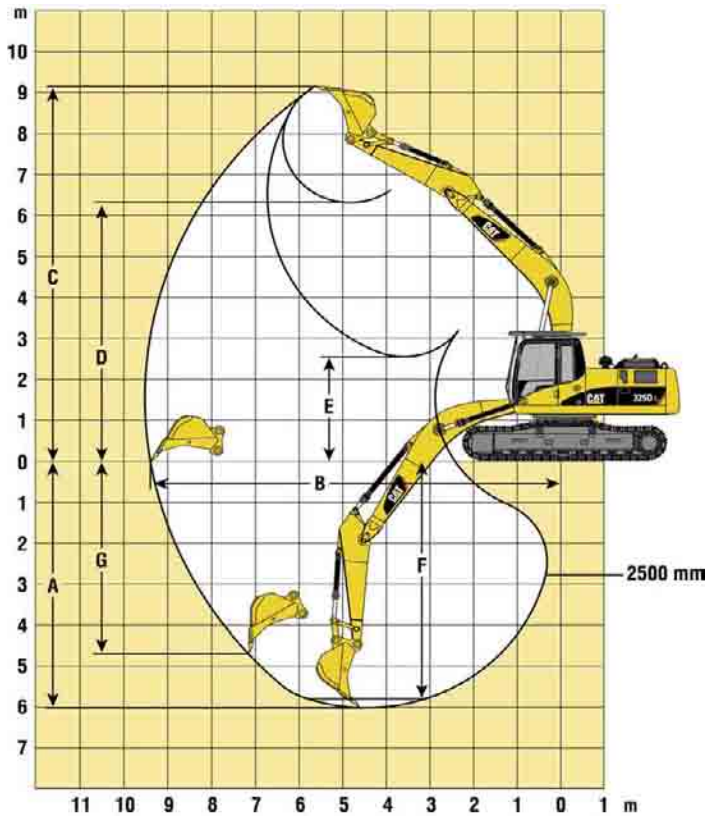
	Liters
Fuel Tank	520
Cooling System	30
Engine Oil	30
Swing Drive (each)	10
Final Drive (each)	6
Hydraulic system (including tank)	310
Hydraulic tank	257

Working Ranges – Reach Boom (6150 mm)



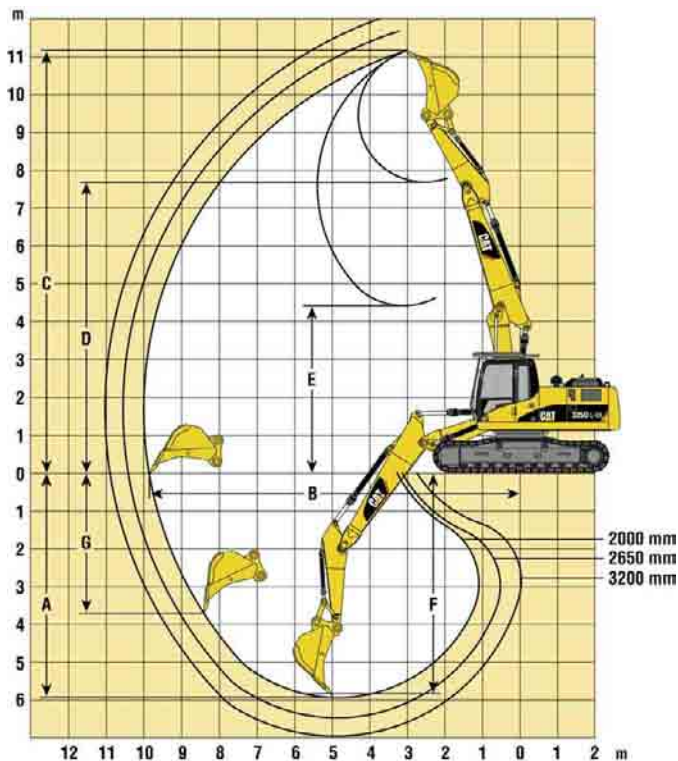
		R2.0DB	R2.6CB2	R3.2CB2
Stick Length	mm	2000	2650	3200
A Maximum Digging Depth	mm	-6060	-6620	-7170
B Maximum Reach at Ground Level	mm	9520	10 130	10 600
C Maximum Cutting Height	mm	9380	9880	9990
D Maximum Loading Height	mm	6310	6870	7020
E Minimum Loading Height	mm	3490	2920	2370
F Maximum Digging Depth 2500 mm Level Bottom	mm	-5830	-5980	-7010
G Maximum Vertical Wall Digging Depth	mm	-4760	-6440	-6510
Bucket Tip Radius	mm	1764	1610	1610
Bucket Force (ISO 6015)	kN	198	168	159
Stick Force (ISO 6015)	kN	188	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

Working Ranges – Variable Adjustable Boom (5850 mm)



		R2.0DB	R2.6CB2	R3.2CB2
Stick Length	mm	2000	2650	3200
A Maximum Digging Depth	mm	-5933	-6466	-6984
B Maximum Reach at Ground Level	mm	9791	10 333	10 819
C Maximum Cutting Height	mm	11 168	11 679	12 006
D Maximum Loading Height	mm	7680	8444	8778
E Minimum Loading Height	mm	4428	3892	3296
F Maximum Digging Depth 2500 mm Level Bottom	mm	-5823	-6364	-6889
G Maximum Vertical Wall Digging Depth	mm	-3719	-4358	-4887
Bucket Tip Radius	mm	1764	1610	1610
Bucket Force (ISO 6015)	kN	198	168	159
Stick Force (ISO 6015)	kN	188	155	138

Lift Capacities – Reach Boom (6150 mm)

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

















325D L

Short Stick

2000 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							*8010	7670					*8070	7230	6.2
6.0 m							*8140	7600					*7880	5400	7.3
4.5 m					*11 380	*11 380	*9080	7290	*8050	5070			7280	4550	7.97
3.0 m					*14 280	10 540	*10 360	6900	7900	4900			6670	4130	8.32
1.5 m							10 940	6560	7720	4730			6490	3990	8.39
0 m					*16 530	9730	10 720	6370	7600	4620			6680	4090	8.18
-1.5 m			*10 580	*10 580	*15 870	9760	10 670	6320	7590	4620			7360	4490	7.66
-3.0 m			*18 490	*18 490	*14 240	9940	*10 740	6440					8960	5440	6.78
-4.5 m					*10 840	10 340							*8790	8000	5.35

















325D 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

















325D 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

















325D LN
Short Stick
 2000 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							*8010	6840					*8070	6440	6.2
6.0 m							*8140	6770					*7880	4780	7.3
4.5 m					*11 380	10 160	*9080	6470	7810	4480			7020	4010	7.97
3.0 m					*14 280	9230	*10 360	6080	7630	4310			6430	3620	8.32
1.5 m							10 560	5750	7440	4150			6250	3490	8.39
0 m					*16 530	8450	10 340	5560	7320	4040			6440	3570	8.18
-1.5 m			*10 580	*10 580	*15 870	8480	10 290	5520	7320	4040			7090	3920	7.66
-3.0 m			*18 490	17 380	*14 240	8650	10 420	5630					8650	4770	6.78
-4.5 m					*10 840	9040							8790	7020	5.35

325D 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

325D 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.
















325D 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
















325D 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

Lift Capacities – Variable Adjustable Boom (5850 mm)

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
















325D L

Short Stick

2000 mm

Shoes

800 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m					
															m	
9.0 m						*9260	*9260							*9310	*9310	4.64
7.5 m						*10 090	*10 090	*9070	7770					*8550	6750	6.42
6.0 m			*11 840	*11 840	*12 670	12 380	*10 480	7960						*8100	5060	7.49
4.5 m			*18 250	*18 250	*14 600	12 000	*11 090	7790	8210	5090				6960	4250	8.15
3.0 m			*19 930	*19 930	*15 860	11 580	11 360	7520	8090	4980				6380	3850	8.49
1.5 m			*14 730	*14 730	*16 210	10 950	11 260	7080	7880	4790				6200	3700	8.55
0 m			*18 350	*18 350	*16 270	10 300	11 200	6710	7660	4590				6380	3790	8.35
-1.5 m			*19 620	*19 620	*16 480	10 010	10 940	6440	7510	4460				*6370	4160	7.85
-3.0 m					*15 500	10 050	*9580	6300								
















325D 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	
9.0 m						*6750	*6750							*6520	*6520	5.82
7.5 m							*7170	*7170						*5720	*5720	7.31
6.0 m					*8790	*8790	*9070	8300	*7640	5610				*5400	4570	8.26
4.5 m			*19 860	*19 860	*14 040	12 400	*10 940	8180	*8580	5610				*5320	3980	8.86
3.0 m			*20 200	*20 200	*15 940	12 090	11 740	7890	8440	5480	6120	3820		*5430	3670	9.17
1.5 m			*17 250	*17 250	*16 660	11 630	*11 580	7530	8280	5280	6040	3720		*5720	3550	9.23
0 m			*15 240	*15 240	*16 630	10 860	11 500	7110	8100	5010	5940	3640		5900	3620	9.04
-1.5 m			*15 730	*15 730	*16 770	10 420	11 350	6840	7870	4810				*6280	3890	8.58
-3.0 m			*16 840	*16 840	*16 540	10 290	11 150	6660	*6860	4750				*5230	4500	7.81
-4.5 m			*19 300	*19 300	*12 880	10 340										

Lift Capacities – Variable Adjustable Boom (5850 mm)

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

















325D 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	
																
10.5 m														*6290	*6290	4.32
9.0 m							*6250	*6250						*4900	*4900	6.55
7.5 m							*6830	*6830	*5700	5590				*4400	*4400	7.9
6.0 m					*6660	*6660	*7380	*7380	*6960	*5730				*4190	4120	8.79
4.5 m			*10410	*10410	*9820	*9820	*9140	*8170	*8150	*5720	*5770	3950	*4150	3610	9.36	
3.0 m			*20650	*20650	*15170	*12040	*11320	7960	8440	5580	6170	3880	*4250	3340	9.65	
1.5 m			*20150	*20150	*16450	11640	11490	7620	8250	5350	6050	3770	*4480	3230	9.71	
0 m			*17020	*17020	*16480	10980	11430	7150	8100	5090	5930	3630	*4890	3270	9.53	
-1.5 m			*16680	*16680	*16550	10420	11340	6810	7870	4800	5840	3540	*5570	3490	9.09	
-3.0 m			*18120	*18120	*16670	10190	11120	6620	7710	4650			*5330	3960	8.37	
-4.5 m					*14950	10220	*9360	6520								

















325D LN

Short Stick
2000 mm
Shoes
600 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m	
																
9.0 m					*9260	*9260								*9310	*9310	4.64
7.5 m					*10090	*10090	*9070	6920						*8550	5990	6.42
6.0 m			*11840	*11840	*12670	11210	*10480	7110						7910	4460	7.49
4.5 m			*18250	*18250	*14600	10860	*11090	7020	7930	4480				6720	3720	8.15
3.0 m			*19930	19360	*15860	10440	11100	6680	7810	4380				6150	3350	8.49
1.5 m			*14730	*14730	*16210	9600	*11000	6240	7610	4190				5970	3210	8.55
0 m			*18350	17030	*16270	8970	10870	5880	7380	3990				6140	3280	8.35
-1.5 m			*19620	16900	*16480	8690	10560	5610	7240	3870				*6370	3610	7.85
-3.0 m					*15500	8730	*9580	5480								

















325D 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	
																
9.0 m					*6750	*6750								*6520	*6520	5.82
7.5 m							*7170	*7170						*5720	5090	7.31
6.0 m					*8790	*8790	*9070	7500	*7640	5010				*5400	4050	8.26
4.5 m			*19860	*19860	*14040	*11260	*10940	7410	8350	5000				*5320	3500	8.86
3.0 m			*20200	20150	*15940	10920	11430	7150	8190	4880	5910	3350	*5430	3210	9.17	
1.5 m			*17250	*17250	*16660	10270	11300	6690	9030	4680	5820	3560	5560	3100	9.23	
0 m			*15240	*15240	*16630	9520	11170	6280	7820	4420	5730	3180	5690	3160	9.04	
-1.5 m			*15730	15730	*16770	9100	10970	6010	7590	4210			6130	3400	8.58	
-3.0 m			*16840	*16840	*16540	8980	10770	5840	*6860	4160			*5230	3940	7.81	
-4.5 m			*19300	17660	*12880	9020										

325D 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	
																
10.5 m														*6290	*6290	4.32
9.0 m							*6250	*6250						*4900	*4900	6.55
7.5 m							*6830	*6830	*5700	5010				*4400	*4400	7.9
6.0 m					*6660	*6660	*7380	*7380	*6960	5140				*4190	3640	8.79
4.5 m			*10410	*10410	*9820	*9820	*9140	7370	*8150	5130	*5770	3480	*4150	3170	9.36	
3.0 m			*20650	20090	*15170	10920	*11320	*7180	8190	5000	5950	3420	*4250	2920	9.65	
1.5 m			*20150	19750	*16450	10510	*11220	6780	8000	4740	5850	3300	*4480	2810	9.71	
0 m			*17020	*17020	*16480	9640	11110	6320	7850	4490	5710	3160	*4890	2840	9.53	
-1.5 m			*16680	*16680	*16550	9100	10960	5990	7600	4210	5630	3080	5540	3030	9.09	
-3.0 m			*18120	17220	*16670	8870	10730	5790	7430	4060			*5330	3450	8.37	
-4.5 m					*14950	8900	*9360	5700								



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.

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
- 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
- Triple grouser shoes
 - 325D L – 800 mm
 - 325D LN – 600 mm
- Two speed travel

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
(see pg.11-12)

Booms (with two working lights)

Reach

– 6150 mm

Mass excavation

– 5550 mm

VA

– 5850 mm

Sticks

For reach boom

– R2.0DB

– R2.6CB2

– R3.2CB2

For mass boom

– M2.5DB

For VA boom

– R2.0DB

– R2.6CB2

– R3.2CB2

Tips

Shoes

Triple grouser

325D L – 600 mm, 900 mm

Heavy duty – 600 mm, 700 mm

325D LN – 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

Heavy-duty swivel protection (16 mm)

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 24V to 12V 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)

– System, Double Medium
Pressure (two function medium
pressure, 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-12V

– 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

325D L and 325D 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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HEHH3290-1 (07/2007) hr

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