



**323D L**  
**323D LN**  
Hydraulic Excavators

**CAT**<sup>®</sup>

Cat<sup>®</sup> 3066 ATAAC Diesel Engine

Net Power (ISO 9249) at 1800 rpm	103 kW/140 hp
Operating Weight	21 820 to 22 720 kg
Maximum Travel Speed	5.5 km/h
Maximum Reach	10 200 mm
Maximum Digging Depth	6680 mm

## 323D L and 323D LN Hydraulic Excavators

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

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### Engine

Cat® 3066 ATAAC engine and hydraulics give the 323D L and 323D LN exceptional power, efficiency and controllability unmatched in the industry. The engine is built for performance, durability, excellent fuel economy, low sound levels and it meets the European Union emission regulations. **pg. 4**

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### Hydraulics

✓ The hydraulic system has been designed to provide reliability and outstanding controllability with increased digging forces, lifting capacity and drawbar pull. An optional Tool Control System provides enhanced flexibility. The Heavy Lift Mode maximizes lifting performance and maintains excellent stability. **pg. 4**

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### SmartBoom™

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

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



✓ *New feature*

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### 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**

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### 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**

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### Structures

- ✓ Caterpillar design and manufacturing techniques assure outstanding durability and service life from these important components. The 323D comes standard with grease lubricated tracks. Cat designed excavator undercarriage is stable, durable and low maintenance for good machine stability and transportability. **pg. 8**

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### Work Tools and GET

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

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### 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 is also selected from the monitor. To minimize sun glare, the monitor angle is adjustable. **pg. 7**

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### 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**



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### 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 and Hydraulics

*The Cat 3066 ATAAC engine and hydraulics give the 323D exceptional power, fuel efficiency, controllability unmatched in the industry for consistently high performance in all applications.*



**Engine.** The Cat 3066 ATAAC is a six-cylinder turbocharged and aftercooled engine. It features long-stroke piston movement for high torque at medium to low speeds, which provides excellent productivity in the toughest working environments. By combining excellent fuel consumption of the 3066 ATAAC engine with the new Economy Mode, customers can balance the demands of performance and fuel economy to suit their requirements and application.

### **Automatic Engine Speed Control.**

Automatic Engine Control with convenient one-touch command. During no-load or light-load conditions, the Automatic Engine Speed reduces engine speed. This maximizes fuel efficiency and reduces sound levels.

**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.

**Low sound, low vibration.** By design, the 3066 ATAAC improves operator comfort by reducing sound and vibration.

**Component Layout.** The 323D 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.

**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.

**Auxiliary Hydraulic Valve.** The auxiliary valve is standard on the 323D. 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.

### **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.

**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.

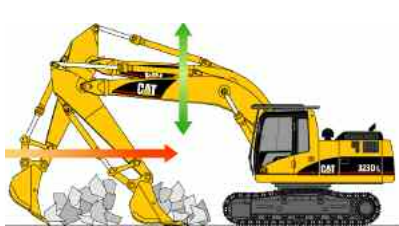


**Electronic Control System.** Ten hydraulic pump flow and pressure settings can be preset, eliminating the need to adjust the hydraulics each time a tool is changed.

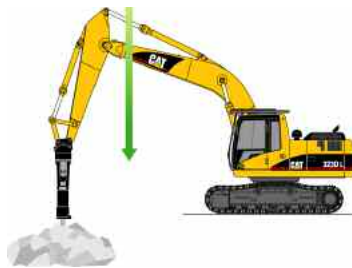


## SmartBoom

*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 323D 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 323D. 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 323D 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.

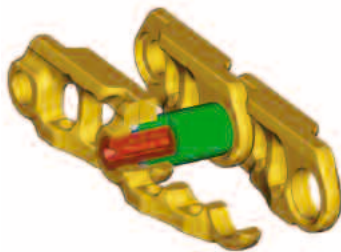
**Multi-information Display Area.** This area is reserved for displaying information that is convenient for the operator. The "CAT" logo mark is displayed when information to display does not exist.

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



## Structure

*323D structural components and undercarriage are the backbone of the machine's durability.*



**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.

**Tracks.** The 323D 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.



## 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 323D 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.



**Extended Service Intervals.** 323D service and maintenance intervals have been extended to reduce machine service time and increase machine availability.

**Diagnostics and Monitoring.** The 323D is equipped with S•O•S<sup>SM</sup> 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.

## 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.

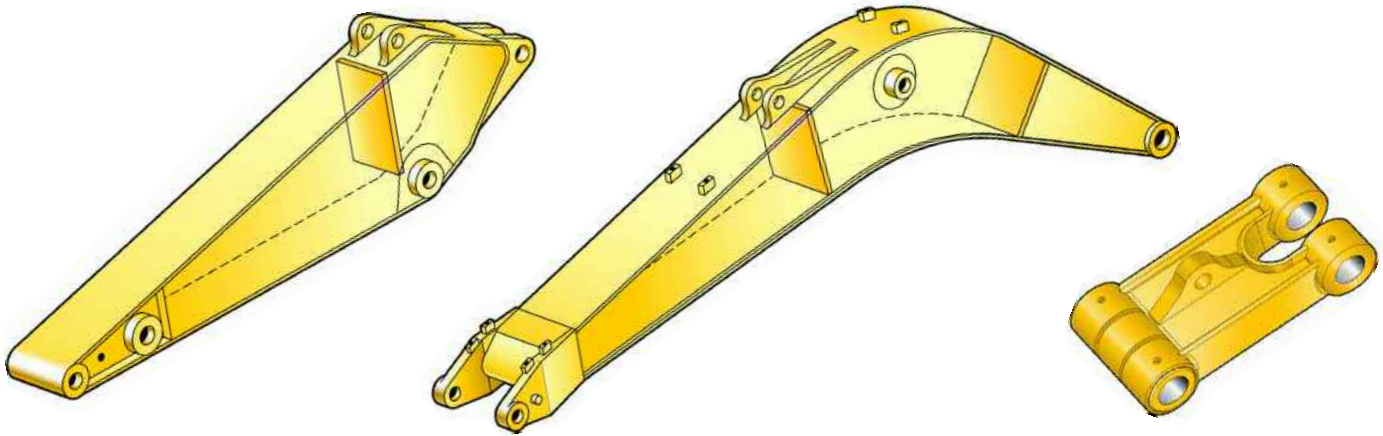
**Product Support.** You will find nearly all parts at our dealer parts counter. Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine downtime. You can save money with Cat remanufactured components.

**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 (5680 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 (5200 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 B1 and CB2 linkages.

- R2.9B1. The 2920 mm stick gives the largest working envelope with medium-sized buckets.
- R2.5B1. The 2500 mm stick uses larger capacity B1 family buckets and is best suited for trenching, excavation and general construction applications.
- R1.9CB2. The 1900 mm stick uses higher capacity CB family buckets for high production applications.

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

- M1.9CB2. The 1900 mm stick provides excellent digging envelope with large bucket capacity and high force levels.

### **Reach Sticks with VA Boom.**

The 2920 mm, 2500 and 1900 mm sticks provide the necessary strength in digging, lifting and hammering applications with the VA boom.



**Bucket Linkage.** Two bucket linkages (B1 and CB2) 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 and GET

A wide variety of Work Tools help optimize machine performance.

Purpose designed and built to Caterpillar's high durability standards.



### Caterpillar K Series™ Tooth System



**Rationalized Bucket Line.** Optimized design matches machine configuration perfectly. Improved balance between performance and durability. Buckets feature the new Caterpillar K Series Tooth System.

**1 Excavation (X).** Digs and loads soft to medium materials such as clay and earth. Features weld on tip adapters, wear resistant steel alloy cutting edge and wear plates, and high grade steel side bars.

**2 Extreme Excavation (EX).** Digs and loads compact/abrasive materials like earth/rock, sand/clay, sand/gravel, coal, chalk and low abrasion ores. Features bigger ground engaging tools, plus all wear resistant steel alloy cutting edge, wear plates and side bars.

**K Series Tip Selection.** The new Caterpillar K Series Tooth System holds tighter, changes easier and stays sharper.

- 10 General Duty
- 11 Extra Duty
- 12 Penetration
- 13 Penetration Plus
- 14 Heavy Penetration
- 15 Heavy Abrasion
- 16 Wide
- 17 Spike
- 18 Double Spike

### 3 Buckets for Special Applications.

Choose from a variety of buckets such as ditch cleaning buckets (tiltable), skeleton buckets (heavy duty) and trapezoidal buckets. Each of these buckets enhances the performance in special applications. Ask your dealer representative to recommend the optimum solution for your material and operation.

**4 Ripper.** The Caterpillar TR-series ripper provides a powerful single point of penetration force to break out rock and other difficult to excavate material. Usage with the quick coupler and a compatible rock bucket facilitates the "Rip & Load" technique to supplement or replace blasting to prepare rock material prior to truck loading.

**5 Quick Coupler.** Caterpillar quick couplers enable the operator to simply release one work tool and pick up another. Your hydraulic excavator becomes highly versatile. The dedicated CW-Series quick coupler enables a quick tool exchange while maintaining top machine performance. A lifting hook is added for maximum lift capacity.



**Work Tools.** Choose from a variety of work tools such as hammers, crushers, pulverizers, shears, multi-processors and grapples.

### Tool Control.

Ten hydraulic pump flow and pressure settings can be preset on the monitor (Electronic Control System), eliminating the need to adjust the hydraulics each time a tool is changed. Selecting the proper setting from the monitor's menu instantly provides the operator with the correct amount of flow and pressure for the tool. The unique Cat proportional sliding switches provide modulation to the tool and make precision work easy.



# Bucket Specifications

Without Quick Coupler						Reach boom 5680 mm						ME 5200 mm	VA boom 5460 mm										
						Linkage	Width mm	Weight* kg	Capacity (ISO) m <sup>3</sup>	Fill Factor %	323D L			323D LN			323D L	323D L			323D LN		
											1900 mm	2500 mm	2920 mm	1900 mm	2500 mm	2920 mm	1900 mm	1900 mm	2500 mm	2920 mm	1900 mm	2500 mm	2920 mm
Excavation	B1	600	564	0.44	100	×			×			×	×			×							
	B1	750	593	0.59	100	×			×			×	×			×							
	B1	1000	698	0.86	100	×			×			×	×			×							
	B1	1200	784	1.08	100	×			×			×	×			×							
	B1	1250	801	1.13	100	×			×			×	×			×							
	B1	1300	819	1.19	100	×			×			×	×			×							
	B1	1400	854	1.30	100	×			×			×	×			×		N					
	B1	1500	889	1.41	100	×			×			×	×			×	N	N					
	CB2	600	665	0.49	100		×	×			×			×	×		×	×					
	CB2	750	688	0.67	100		×	×			×			×	×		×	×					
	CB2	1250	919	1.30	100		×	×			×			×	×		×	×					
	CB2	1300	958	1.35	100		×	×			×			×	×		×	×					
	CB2	1350	979	1.42	100		×	×			×			×	×	N	×	×					
	CB2	1400	1000	1.48	100		×	×			×			×	×	N	×	×					
CB2	1500	1043	1.61	100		×	×			×			×	×	N	×	×						
CB2	1600	1084	1.74	100		×	×		N	×	×		×	×	N	×	×						
Extreme Excavation	B1	600	589	0.44	100	×			×			×	×			×							
	B1	750	620	0.59	100	×			×			×	×			×							
	B1	1250	827	1.13	100	×			×			×	×			×							
	B1	1300	864	1.18	100	×			×			×	×			×							
	B1	1400	901	1.30	100	×			×			×	×			×		N					
	CB2	750	724	0.67	100		×	×			×			×	×		×	×					
	CB2	1150	926	1.16	100		×	×			×			×	×		×	×					
	CB2	1350	1014	1.42	100		×	×			×			×	×	N	×	×					
	CB2	1450	1083	1.55	100		×	×			×			×	×	N	×	×					
	CB2	1500	1104	1.61	100		×	×			×			×	×	N	×	×					
Rock	CB2	1350	1096	1.45	90		×	×		×	×		×	×	N	×	×						
Maximum load in kg (payload plus bucket)						3606	3344	3096	3005	2815	2745	4152	3106	2910	2695	2531	2406	2218					
<b>With Quick Coupler</b>																							
Excavation	B1	600	529	0.44	100	×			×			×	×			×							
	B1	750	557	0.59	100	×			×			×	×			×							
	B1	1000	663	0.86	100	×			×			×	×			×							
	B1	1200	748	1.08	100	×			×			×	×			×							
	B1	1250	765	1.13	100	×			×			×	×			×		N					
	B1	1300	783	1.19	100	×			×			×	×			×		N					
	B1	1400	818	1.30	100	×			×			×	×			×	N	N					
	B1	1500	853	1.41	100	×			×			×	×			×	N	N					
	CB2	600	615	0.49	100		×	×			×			×	×		×	×					
	CB2	750	621	0.67	100		×	×			×			×	×		×	×					
	CB2	1250	845	1.30	100		×	×			×			×	×	N	×	×					
	CB2	1300	884	1.35	100		×	×			×			×	×	N	×	×					
	CB2	1350	904	1.42	100		×	×			×			×	×	N	×	×					
	CB2	1400	925	1.48	100		×	×			×			×	×	N	×	×					
CB2	1500	966	1.61	100		×	×		N	×	×		×	×	N	×	×						
CB2	1600	985	1.74	100		×	×		N	×	×		N	×	×	N	×						
Extreme Excavation	B1	600	558	0.44	100	×			×			×	×			×							
	B1	750	584	0.59	100	×			×			×	×			×							
	B1	1250	792	1.13	100	×			×			×	×			×		N					
	B1	1300	829	1.18	100	×			×			×	×			×	N	N					
	B1	1400	866	1.30	100	×			×			×	×			×	N	N					
	CB2	750	675	0.67	100		×	×			×			×	×		×	×					
	CB2	1150	878	1.16	100		×	×			×			×	×		×	×					
	CB2	1350	966	1.42	100		×	×			×			×	×	N	×	×					
Rock	CB2	1350	1048	1.45	90		×	×		×	×		×	×	N	×	×						
Maximum load in kg (payload plus bucket)						3366	3104	2856	2765	2575	2505	3912	2866	2670	2455	2291	2166	1978					

\* Bucket weight including penetration plus tips



Max. Material Density  
1200 kg/m<sup>3</sup>



Max. Material Density  
1500 kg/m<sup>3</sup>



Max. Material Density  
1800 kg/m<sup>3</sup>



Not recommended



Not compatible

# Work Tools Matching Guide

		Reach boom 5680 mm						ME 5200 mm	VA boom 5460 mm						
		323D L			323D LN			323D L	323D L			323D LN			
		1900	2500	2920	1900	2500	2920	1900	1900	2500	2920	1900	2500	2920	
<b>Without quick coupler</b>															
mm															
Hammers	H120C s, H130 s														
Multiprocessors	MP15 CC, CR, S														
	MP15 PP														
	MP15 PS												N	N	
	MP20 CC, CR, S			N	N	N	N		N	N	N	N	N	N	
	MP20 PP		N	N	N	N	N		N	N	N	N	N	N	
	MP20 PS, TS		N	N	N	N	N		N	N	N	N	N	N	
Crushers and Pulverizers	VHC-30														
	VHC-40			N	N	N	N		N	N	N	N	N	N	
	VHP-30														
	VHP-40		N	N	N	N	N		N	N	N	N	N	N	
Hydraulic Shears	S320														
	S325*														
Mechanical Grapples	G112														
	G115						N			N	N	N	N	N	
Multi Grapples	G315			N	N	N	N		N	N	N	N	N	N	
	G315B-D, -R	N						N	N						
	G320B-D			N	N	N	N		N	N	N	N	N	N	
	G320B-R			N	N	N	N		N	N	N	N	N	N	
Vibratory Plate Compactor	CVP110														
Clamshell Buckets (rehandling)	GOS-25 460, 520														
	GOS-25 580														
	GOS-25 750														
	GOS-25 900														
	GOS-25 980, 1140														
	GOS-35 620														
	GOS-35 700														
	GOS-35 780														
	GOS-35 1050													N	N
	GOS-35 1260						N				N	N	N	N	N
	GOS-35 1460			N	N	N	N			N	N	N	N	N	N
	GOS-35 1670		N	N	N	N	N		N	N	N	N	N	N	N
	Orange Peel Grapples	5 tines	GSH15B 400, 500, 600, 800												
GSH20B 600, 800, 1000															
4 tines		GSH15B 400, 500, 600, 800													
		GSH20B 600, 800, 1000													
		* Boom mounted													
<b>With quick coupler</b>															
Quick Couplers	CW-40														
	CW-40S														
Hammers	H120C s, H130 s														
Multiprocessors	MP15 CC, CR, S													N	
	MP15 PP			N									N	N	
	MP15 PS												N	N	
	MP20 CC, CR		N	N	N	N	N		N	N	N	N	N	N	
	MP20 PP		N	N	N	N	N		N	N	N	N	N	N	
	MP20 PS, TS		N	N	N	N	N		N	N	N	N	N	N	
	MP20 S		N	N	N	N	N		N	N	N	N	N	N	
Crushers and Pulverizers	VHC-30												N	N	
	VHC-40		N	N	N	N	N		N	N	N	N	N	N	
	VHP-30														
	VHP-40		N	N	N	N	N		N	N	N	N	N	N	
Hydraulic Shears	S320			N									N	N	
Mechanical Grapples	G112													N	
	G115		N	N					N	N	N	N	N	N	
Multi Grapples	G315		N	N	N	N	N		N	N	N	N	N	N	
	G315B-D, -R		N			N		N	N				N	N	
	G320B-D, -R		N	N	N	N	N		N	N	N	N	N	N	
Vibratory Plate Compactor	CVP110														

- 360° Working range
- Quick coupler match
- Max. Material Density 1200 kg/m<sup>3</sup>
- Over the front only
- N Not recommended
- Max. Material Density 1800 kg/m<sup>3</sup>
- Max. Material Density 3000 kg/m<sup>3</sup>

## Engine

Cat 3066 ATAAC diesel engine

Net Power at 1800 rpm

ISO 9249	103 kW/140 hp
----------	---------------

80/1269/EEC	103 kW/140 hp
-------------	---------------

Bore	102 mm
------	--------

Stroke	130 mm
--------	--------

Displacement	6.4 liters
--------------	------------

- All engine horsepower (hp) are metric including front page.
- The 3066 engine meets EU directive 97/68/EC Stage II 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 75 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.

### Exterior Sound

- The labeled spectator sound power level measured according to the test procedures and conditions specified in 2005/88/EC is 102 dB(A).

## Cab/FOGS

Cab/FOGS meets ISO 10262.

## Hydraulic System

### Main System

Maximum flow	2 x 205 l/min
--------------	---------------

### Maximum pressure

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

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

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

Swing	250 bar
-------	---------

### Pilot System

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

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

### Boom Cylinder

Bore	120 mm
------	--------

Stroke	1260 mm
--------	---------

### Stick Cylinder

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

Stroke	1518 mm
--------	---------

### B1 Family Bucket Cylinder

Bore	120 mm
------	--------

Stroke	1104 mm
--------	---------

### CB2 Family Bucket Cylinder

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

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

## Machine and Major Component Weights

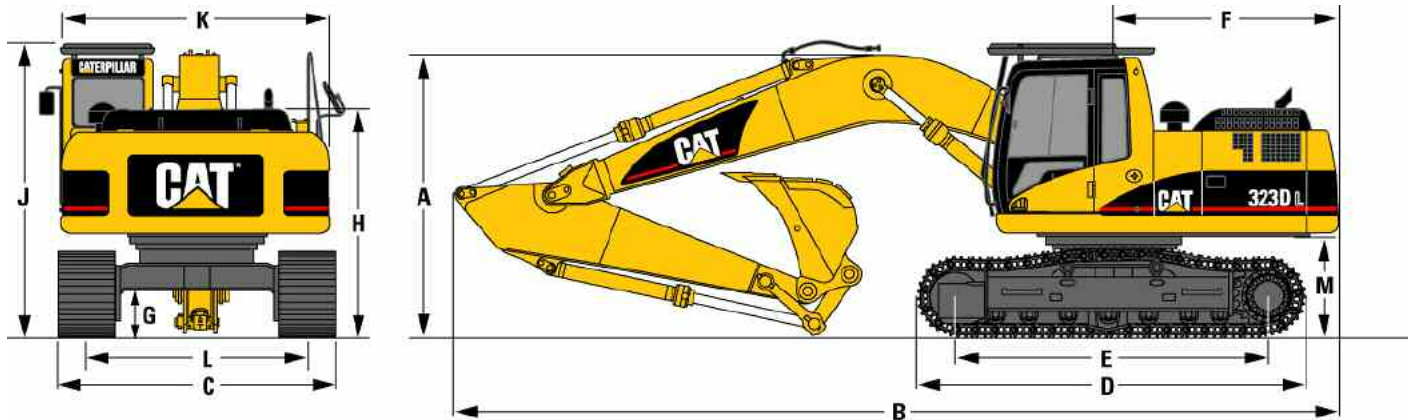
Actual weights and ground pressures will depend on final machine configuration.

		Reach boom 5680 mm			ME 5200 mm	VA boom 5460 mm		
		R1.9CB2	R2.5B1	R2.9B1	M1.9CB2	R1.9CB2	R2.5B1	R2.9B1
Stick type								
Stick length	mm	1900	2500	2920	1900	1900	2500	2920
Bucket weight	kg	885	820	765	965	845	785	750
Bucket capacity	m <sup>3</sup>	1.4	1.3	1.1	1.4	1.3	1.2	1.1
Bucket width/type	mm	1300/X	1400/X	1250/X	1350/EX	1250/X	1300/X	1200/X
Operating weight*								
323D L (600 mm shoes)	kg	21 910	21 890	21 860	22 030	22 720	22 700	22 690
323D LN (500 mm shoes)	kg	21 840	21 850	21 820	–	22 640	22 660	22 650
Ground pressure								
323D L (600 mm shoes)	bar	0.46	0.46	0.46	0.46	0.48	0.47	0.47
323D LN (500 mm shoes)	bar	0.55	0.55	0.55	–	0.57	0.57	0.57
Stick weight (with bucket cylinder)	kg	705	765	785	705	705	765	785
Boom weight (with stick cylinder)	kg		1240		1270		1800	
Upperstructure (without counterweight)	kg		5820		5820		5820	
Undercarriage								
323D L (600 mm shoes)	kg		7230		7230		7230	
323D LN (500 mm shoes)	kg		6860		6860		6860	
Counterweight								
323D L (600 mm shoes)			4420		4420		4420	
323D LN (500 mm shoes)			4750		4750		4750	

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

## Dimensions

All dimensions are approximate.



	mm		mm		mm
<b>A</b> Shipping height (with bucket)		<b>B</b> Shipping length		<b>C</b> Track width	
Reach boom		Reach boom		323D L (800 mm shoes)	3180
1900 mm stick	3100	1900 mm stick	9710	323D LN (600 mm shoes)	2590
2500 mm stick	3050	2500 mm stick	9460	<b>D</b> Track length	4450
2920 mm stick	3030	2920 mm stick	9460	<b>E</b> Length to centers of rollers	3650
Mass Excavation boom		Mass Excavation boom		<b>F</b> Tail swing radius	2750
1900 mm stick	3150	1900 mm stick	9260	<b>G</b> Ground clearance	460
VA boom		VA boom		<b>H</b> Body height	2390
1900 mm stick	3080	1900 mm stick	10 050	<b>J</b> Cab height	3050
2500 mm stick	3170	2500 mm stick	9700	<b>K</b> Body width	2490
2920 mm stick	3160	2920 mm stick	9700	<b>L</b> Track gauge	
				323D L	2380
				323D LN	1990
				<b>M</b> Counterweight clearance	1020

## Track Width

Standard Undercarriage with triple grouser shoes	
Long (L)	600 mm
Long Narrow (LN)	500 mm
Optional Undercarriage with triple grouser shoes	
Long (L)	600, 800, 900 mm
	600 mm HD, 700 mm HD
Long Narrow (LN)	600 mm
	500 mm HD

## Drive

Maximum Travel Speed	5.5 km/h
Maximum Drawbar Pull	206 kN

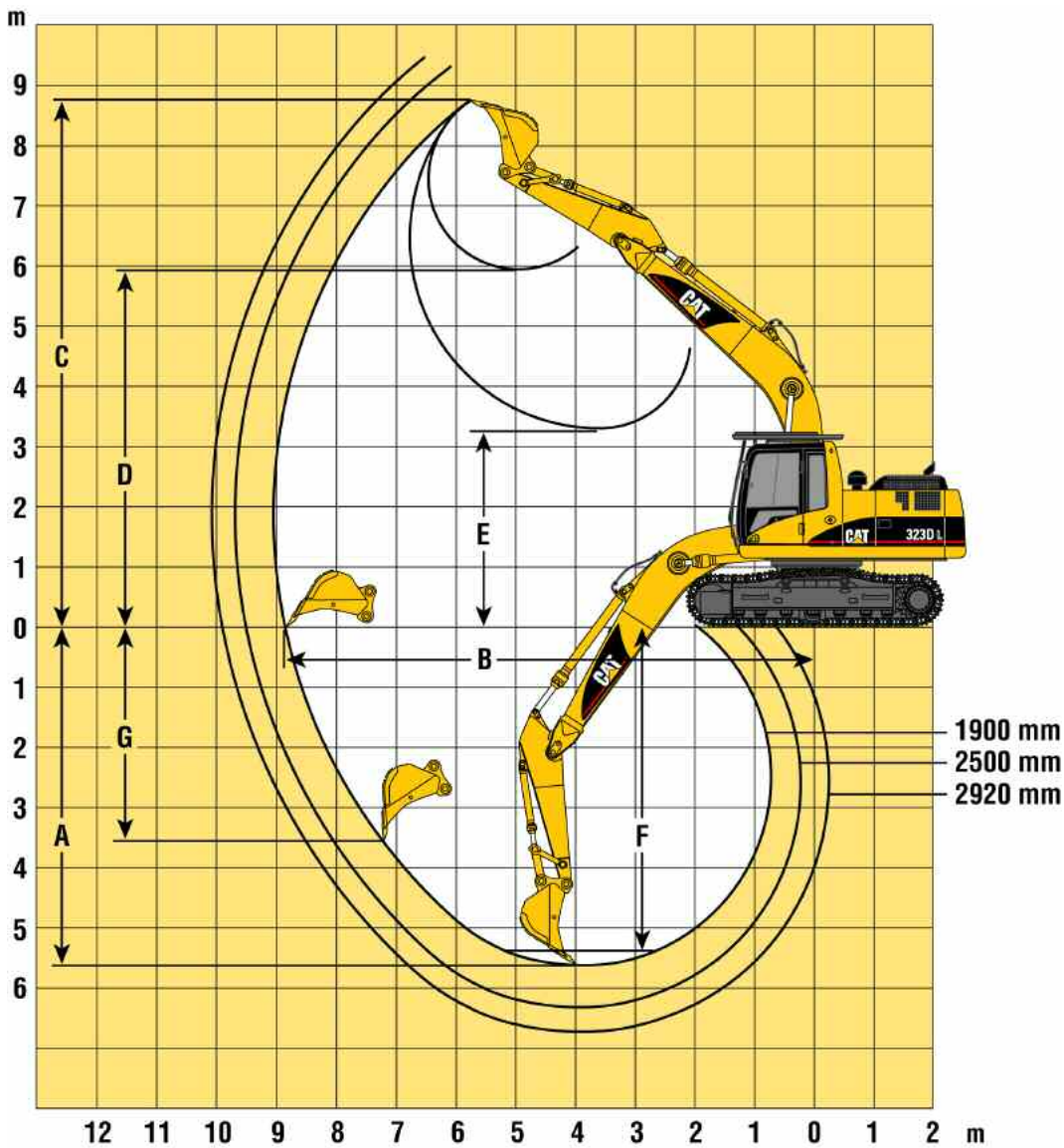
## Swing Mechanism

Swing Speed	11.5 rpm
Swing Torque	62 kNm

## Service Refill Capacities

	Liters
Fuel Tank	320
Cooling System	25
Engine Oil	30
Swing Drive (each)	8
Final Drive (each)	10
Hydraulic system (including tank)	260
Hydraulic tank	120

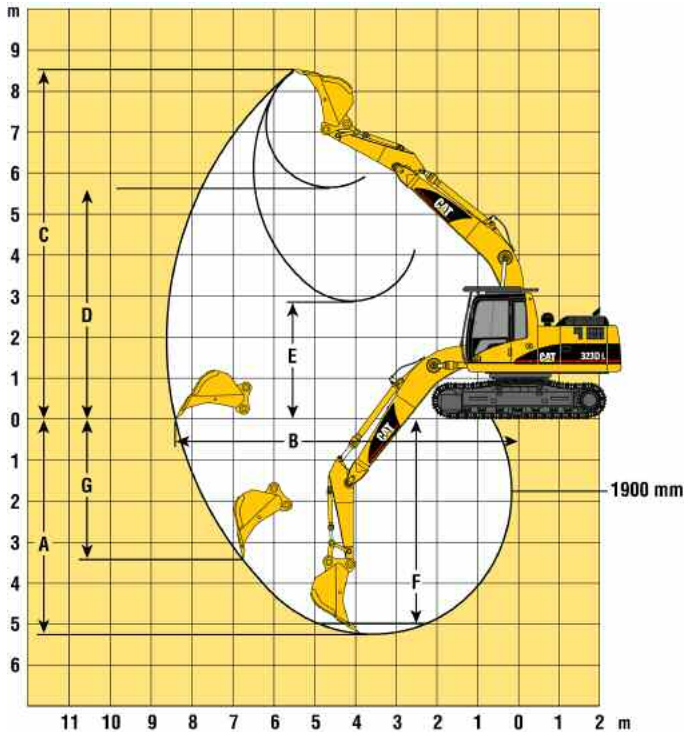
## Working Ranges – Reach Boom (5680 mm)



		R1.9CB	R2.5B1	R2.9B1
Stick Length	mm	1900	2500	2920
A Maximum Digging Depth	mm	-5780	-6200	-6650
B Maximum Reach at Ground Level	mm	8980	9440	9860
C Maximum Cutting Height	mm	8940	9380	9580
D Maximum Loading Height	mm	5990	6590	6770
E Minimum Loading Height	mm	3290	2830	2410
F Maximum Digging Depth 2500 mm Level Bottom	mm	-5510	-5990	-6470
G Maximum Vertical Wall Digging Depth	mm	-3740	-5090	-5520
Bucket Tip Radius	mm	1610	1554	1554
Bucket Forces (ISO 6015)	kN	169	131	126
Stick Forces (ISO 6015)	kN	158	124	115

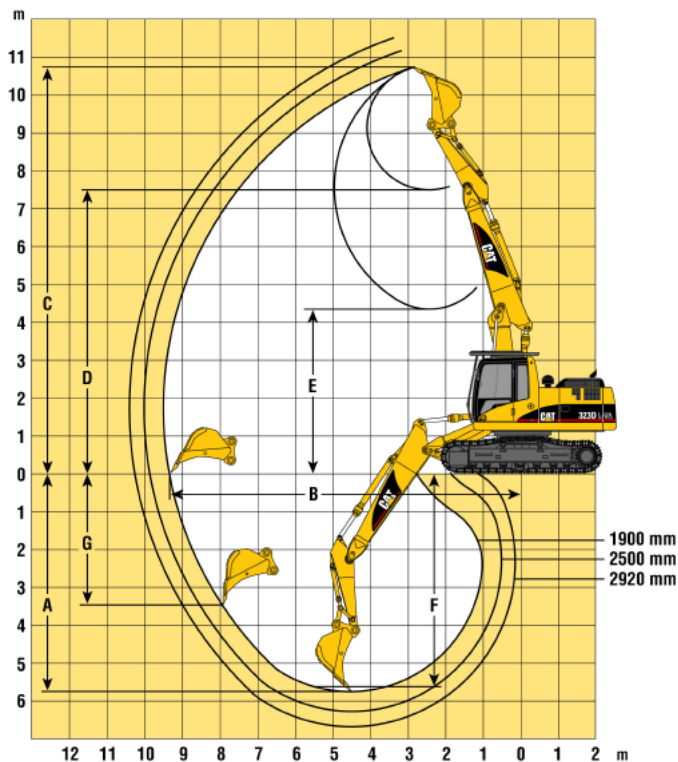


## Working Range – Mass Excavation Boom (5200 mm)



		M1.9CB2
Stick Length	mm	1900
A Maximum Digging Depth	mm	-5330
B Maximum Reach at Ground Level	mm	8520
C Maximum Cutting Height	mm	8710
D Maximum Loading Height	mm	5710
E Minimum Loading Height	mm	2910
F Maximum Digging Depth 2500 mm Level Bottom	mm	-5090
G Maximum Vertical Wall Digging Depth	mm	-3570
Bucket Tip Radius	mm	1619
Bucket Forces (ISO 6015)	kN	169
Stick Forces (ISO 6015)	kN	158

## Working Ranges – Variable Adjustable Boom (5460 mm)



		R1.9CB	R2.5B1	R2.9B1
Stick Length	mm	1900	2500	2920
A Maximum Digging Depth	mm	-5740	-6267	-6680
B Maximum Reach at Ground Level	mm	9275	9792	10 197
C Maximum Cutting Height	mm	10 743	11 169	11 509
D Maximum Loading Height	mm	7508	8089	8429
E Minimum Loading Height	mm	4355	3672	3273
F Maximum Digging Depth 2500 mm Level Bottom	mm	-5626	-6162	-6581
G Maximum Vertical Wall Digging Depth	mm	-3463	-4101	-4515
Bucket Tip Radius	mm	1610	1554	1554
Bucket Forces (ISO 6015)	kN	169	131	126
Stick Forces (ISO 6015)	kN	158	124	115

# Lift Capacities – Reach Boom (5680 mm)

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

















## 323D L

### Short Stick

1900 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															*5620	*5620	5.20
6.0 m							*5360	4920							*5390	4250	6.51
4.5 m					*6790	*6790	*5730	4780							*5400	3430	7.29
3.0 m					*8520	6970	*6460	4530	5120	3180					4900	3040	7.70
1.5 m					*9960	6490	7080	4300	5020	3090					4720	2900	7.80
0 m					*10 510	6290	6920	4160	4950	3030					4850	2970	7.61
-1.5 m			*11 670	*11 670	*10 250	6290	6880	4120							5380	3280	7.09
-3.0 m			*12 500	*12 500	*9160	6420	*6630	4240							*6330	4090	6.17

















## 323D L

### 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							*4120	*4120							*3960	*3960	6.03
6.0 m							*4970	*4970							*3650	*3650	7.19
4.5 m							*5470	5060	*5130	3520					*3580	3210	7.91
3.0 m					*8060	7430	*6290	4830	5370	3420					*3670	2910	8.29
1.5 m					*9770	6930	*7150	4590	5240	3310					*3910	2800	8.38
0 m			*6090	*6090	*10 700	6650	7190	4420	5150	3230					*4360	2840	8.20
-1.5 m	*6720	*6720	*10 930	*10 930	*10 780	6570	7110	4350	5120	3200					4920	3080	7.72
-3.0 m	*11 720	*11 720	*13 820	12 970	*10 050	6630	7150	4380							5850	3650	6.89
-4.5 m			*11 290	*11 290	*8090	6840									*6170	5110	5.53

















## 323D L

### Long Stick

2920 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															*3310	*3310	6.57
6.0 m									*3720	3600					*3070	*3070	7.65
4.5 m							*5090	*5090	*4810	3560					*3020	2960	8.32
3.0 m			*11 550	*11 550	*7470	*7470	*5950	4880	*5210	3450					*3090	2710	8.68
1.5 m					*9330	7030	*6880	4630	5260	3330					*3280	2600	8.77
0 m			*6860	*6860	*10 490	6700	7210	4440	5150	3230					*3620	2640	8.60
-1.5 m	*6270	*6270	*10 420	*10 420	*10 820	6570	7100	4340	5090	3170					*4230	2840	8.15
-3.0 m	*10 360	*10 360	*14 150	12 860	*10 340	6580	7100	4340							5270	3290	7.36
-4.5 m			*12 480	*12 480	*8820	6740	*6190	4480							*5970	4370	6.11



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.

















**323D LN**  
**Short Stick**  
 1900 mm  
**Shoes**  
 500 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m	
																
7.5 m														*5620	5340	5.20
6.0 m							*5360	4190						*5390	3610	6.51
4.5 m					*6790	6370	*5730	4050						*5400	2900	7.29
3.0 m					*8520	5800	*6460	3820	5220	2680				5000	2560	7.70
1.5 m					*9960	5350	*7190	3600	5120	2580				4810	2430	7.80
0 m					*10 510	5170	7050	3460	5050	2530				4950	2480	7.61
-1.5 m			*11 670	9860	*10 250	5160	7020	3430						5490	2740	7.09
-3.0 m			*12 500	10 070	*9160	5280	*6630	3530						*6330	3420	6.17

**323D LN**  
**Medium Stick**  
 2500 mm  
**Shoes**  
 500 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m	
																
7.5 m							*4120	*4120						*3960	*3960	6.03
6.0 m							*4970	4470						*3650	3260	7.19
4.5 m							*5470	4330	*5130	3010				*3580	2730	7.91
3.0 m					*8060	6250	*6290	4110	*5460	2920				*3670	2470	8.29
1.5 m					*9770	5780	*7150	3880	5340	2810				*3910	2370	8.38
0 m			*6090	*6090	*10 700	5520	7330	3720	5250	2730				*4360	2400	8.20
-1.5 m	*6720	*6720	*10 930	10 130	*10 780	5440	7240	3650	5220	2700				*5010	2600	7.72
-3.0 m	*11 720	*11 720	*13 820	10 300	*10 050	5500	7280	3680						*5970	3080	6.89
-4.5 m			*11 290	10 640	*8090	5700								*6170	4310	5.53

**323D LN**  
**Long Stick**  
 2920 mm  
**Shoes**  
 500 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m	
																
7.5 m														*3310	*3310	6.57
6.0 m									*3720	3090				*3070	2970	7.65
4.5 m							*5090	4390	*4810	3050				*3020	2530	8.32
3.0 m			*11 560	*11 550	*7480	6380	*5950	4160	*5210	2940				*3090	2300	8.68
1.5 m					*9330	5870	*6880	3920	5360	2820				*3280	2200	8.77
0 m			*6860	*6860	*10 490	5560	7350	3740	5250	2720				*3620	2230	8.60
-1.5 m	*6270	*6270	*10 420	10 070	*10 820	5430	7230	3640	5190	2670				*4230	2390	8.15
-3.0 m	*10 370	*10 360	*14 150	10 200	*10 340	5450	7230	3640						5370	2780	7.36
-4.5 m			*12 480	10 490	*8820	5600	*6190	3770						*5970	3690	6.11

## Lift Capacities – Mass Excavation Boom (5200 mm)

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

















### 323D L

#### Short Stick

1900 mm

#### Shoes

600 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m					
															m	
6.0 m														*5960	5070	5.89
4.5 m					*6900	*6900	*6070	4840						*5920	3950	6.74
3.0 m					*8490	7210	*6690	4630						5550	3460	7.18
1.5 m					*9970	6730	7220	4410						5310	3290	7.29
0 m					*10 640	6480	7050	4270						5490	3370	7.08
-1.5 m			*13 740	12 660	*10 350	6440	7030	4250						6210	3790	6.52
-3.0 m			*12 440	*12 440	*8890	6590								*6890	4940	5.51

## Lift Capacities – Variable Adjustable Boom (5460 mm)

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

















### 323D L

#### Short Stick

1900 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			*6950	*6950										*7190	*7190	3.51
7.5 m					*6980	*6980								*6660	5290	5.7
6.0 m			*8770	*8770	*8310	7990	*6810	5020						6000	3710	6.92
4.5 m			*11 530	*11 530	*9150	*7700	*7070	5040	5160	3160				4950	3020	7.65
3.0 m			*12 120	*12 120	*10 070	7460	7250	4850	5130	3130				4470	2690	8.04
1.5 m			*14 140	13 400	*10 220	7160	7130	4660	5010	3020				4300	2560	8.14
0 m			*14 600	12 860	*10 230	6780	7150	4370	4870	2890				4420	2620	7.95
-1.5 m	*14 510	*14 510	*15 670	12 640	*10 440	6550	6960	4120						*4020	2890	7.46
-3.0 m	*14 260	*14 260	*15 670	12 790	*9760	6420	*5480	4060								

















### 323D L

#### 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	
9.0 m					*5650	*5650								*4830	*4830	4.72
7.5 m					*6310	*6310	*5730	5210						*3990	*3990	6.51
6.0 m					*7060	*7060	*6660	5340	*4270	3470				*3680	3370	7.6
4.5 m			*12 810	*12 810	*8890	*8000	*7020	5260	5490	3520				*3580	2850	8.27
3.0 m			*13 710	*13 710	*10 030	7730	*7480	5130	5430	3470				*3630	2590	8.63
1.5 m			*14 260	13 740	*10 580	7530	*7380	4920	5310	3340				*3820	2490	8.72
0 m	*9560	*9560	*15 190	13 560	*10 530	7180	7360	4690	5180	3190				4150	2530	8.55
-1.5 m	*12 440	*12 440	*16 240	13 100	*10 620	6850	7330	4470	5040	3070				*4090	2740	8.09
-3.0 m	*13 640	*13 640	*16 550	13 040	*10 760	6760	7120	4290								
-4.5 m			*12 170	*12 170	*7630	6700										



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 – Variable Adjustable Boom (5460 mm)

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

















**323D L**  
**Long Stick**  
 2920 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					*5690	*5690							*3930	*3930	5.44
7.5 m					*5650	*5650	*5410	5320					*3330	*3330	7.04
6.0 m					*5810	*5810	*5960	5380	*4900	3600			*3090	3070	8.05
4.5 m			*7500	*7500	*7610	*7610	*6780	*5270	*5520	3620			*3020	2640	8.69
3.0 m			*14 410	14 240	*9700	7780	*7300	*5180	5430	3570	*3330	2430	*3060	2410	9.04
1.5 m	*6830	*6830	*14 090	13 820	*10 500	7600	7380	*4970	5380	3440	3880	2380	*3200	2320	9.13
0 m	*9290	*9290	*15 410	13 830	*10 510	7290	7330	4750	5240	3270			*3480	2350	8.96
-1.5 m	*12 690	*12 690	*16 350	13 180	*10 550	6900	7310	4530	5080	3100			*3970	2520	8.53
-3.0 m	*13 820	*13 820	*16 700	13 000	*10 770	6740	7160	4320	*4330	3050			*3300	2910	7.78
-4.5 m			*15 240	13 240	*8960	6640	*4620	4300							

















**323D LN**  
**Short Stick**  
 1900 mm  
**Shoes**  
 500 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m
															
9.0 m			*6950	*6950									*7190	*7190	3.51
7.5 m					*6980	6780							*6660	4300	5.70
6.0 m			*8770	*8770	*8310	6710	*6810	4100					5920	2980	6.92
4.5 m			*11 530	*11 530	*9150	6440	*7070	4120	5090	2520			4880	2390	7.65
3.0 m			*12 120	11 130	*10 070	6240	*7180	4010	5060	2490			4400	2100	8.04
1.5 m			*14 140	10 460	*10 220	5810	7070	3750	4940	2380			4240	1990	8.14
0 m			*14 600	9710	*10 230	5350	7060	3480	4800	2260			4350	2030	7.95
-1.5 m	*14 510	*14 510	*15 670	9510	*10 440	5140	6870	3240					*4020	2250	7.46
-3.0 m	*14 260	*14 260	*15 670	9650	*9760	5020	*5480	3180							

**323D LN**  
**Medium Stick**  
 2500 mm  
**Shoes**  
 500 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m
															
9.0 m					*5650	*5650							*4830	*4830	4.73
7.5 m					*6310	*6310	*5730	4470					*3990	3780	6.51
6.0 m					*7060	*7060	*6660	4640	*4270	2940			*3680	2850	7.60
4.5 m			*12 810	12 650	*8890	6950	*7020	4610	*5580	2990			*3580	2400	8.27
3.0 m			*13 710	11 910	*10 030	6700	*7480	4450	5510	2950			*3630	2160	8.63
1.5 m			*14 260	11 580	*10 580	6390	7470	4220	5410	2810			*3820	2070	8.72
0 m	*9570	*9560	*15 190	10 770	*10 530	5970	7450	3960	5270	2680			*4180	2100	8.55
-1.5 m	*12 440	*12 440	*16 240	10 350	*10 620	5670	*7460	3750	5140	2560			*4090	2280	8.09
-3.0 m	*13 640	*13 640	*16 550	10 300	*10 760	5580	*7160	3570							
-4.5 m			*12 170	10 330	*7380	5500									

**323D LN**  
**Long Stick**  
 2920 mm  
**Shoes**  
 500 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m
															
9.0 m					*5690	*5690							*3930	*3920	5.44
7.5 m					*5650	*5650	*5410	4620					*3330	3330	7.04
6.0 m					*5810	*5810	*5960	4690	*4910	3070			*3090	2600	8.05
4.5 m			*7500	*7500	*7610	*7000	*6780	4620	*5600	3100			*3020	2210	8.69
3.0 m			*14 410	12 020	*9700	6730	*7300	4500	5520	3040	*3330	2030	*3060	2010	9.04
1.5 m	*6830	*6830	*14 090	*11 670	*10 500	*6540	7490	4300	5450	2910	3950	1980	*3200	1920	9.13
0 m	*9290	*9290	*15 410	11 000	*10 510	6080	*7430	4010	5330	2750			*3480	1950	8.96
-1.5 m	*12 690	*12 690	*16 350	10 420	*10 550	5710	7440	3800	5180	2590			*3970	2090	8.53
-3.0 m	*13 820	*13 820	*16 700	10 260	*10 770	5560	7300	3600	*4320	2530			*3300	2420	7.78
-4.5 m			*15 240	10 470	*8960	5460	*4620	3580							

## Standard Equipment

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

### Electrical

- Alternator – 80 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
- Cat 3066 ATAAC engine (103 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
  - 323D L – 600 mm
  - 323D LN – 500 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•S<sup>SM</sup> 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.

## Front Linkage

### Bucket linkages

- B1-family for B1 sticks with lifting eye)
- CB-family for CB sticks with lifting eye)

### Buckets and quick coupler (see pg.11-12)

### Booms (with two working lights)

- Reach
  - 5680 mm
- Mass excavation
  - 5200 mm
- VA
  - 5460 mm

### Sticks

- For reach boom
  - R1.9CB
  - R2.5B1
  - R2.9B1
- For mass boom
  - M1.9CB2
- For VA boom
  - R1.9CB
  - R2.5B1
  - R2.9B1

### Tips

## Shoes

### Triple grouser

- 323D L – 700 mm, 800 mm, 900 mm
  - Heavy duty – 600 mm, 700 mm
- 323D LN – 600 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 (one way high pressure circuit for hammer application)
  - Tool Control
    - Combined function (one way high pressure circuit for hammer application, function for 1-way or 2-way high pressure)
    - Medium pressure circuit
    - Tool selection (via monitor 10 tools)
- 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

# 323D L and 323D LN Hydraulic Excavators

HEHH3327 (12/2005) hr

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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