

# 323D L

Hydraulic Excavator



## Engine

Engine Model	Cat® C6.6 ACERT™
Net Power – ISO 9249	110 kW
Gross Power – SAE J1995	118 kW

## Weights

Operating Weight	22 550-22 620 kg
• Reach Boom (HD), Heavy Duty Stick, 790 mm Track Shoes and 1.19 m³ Bucket	

## 323D L Features

### Engine and Hydraulics

*A powerful Cat C6.6 engine combined with a highly efficient hydraulics system provides excellent machine performance with low fuel consumption.*

### Structures

*Caterpillar design and manufacturing techniques assure outstanding durability and service life in the toughest applications.*

### Operator Station

*Spacious cab with excellent visibility and easy to access switches. The monitor features a full-color graphical display which is user intuitive and highly visual with built-in pre-start machine checks. Overall, the new cab provides a comfortable working environment for efficient day-long operation.*

### Service and Maintenance

*This machine has been designed so that routine service and maintenance can be completed quickly and easily to help reduce ownership costs. Convenient access points with extended intervals and advanced filtration keeps down-time to a minimum.*

### 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.*

### Cat® 323D L Total Solutions

*Caterpillar and its extensive dealer network offer a wide variety of solutions designed to meet the unique needs of your business.*

## Contents

Engine .....	3
Hydraulics .....	4
Structures.....	5
Operator Station.....	6
Booms and Sticks .....	7
Work Tools – Attachments .....	8
Service and Maintenance .....	9
Complete Customer Support.....	10
Cat® 323D L Total Solutions .....	11
323D L Specifications .....	12
323D L Standard Equipment .....	19
323D L Optional Equipment.....	20



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

# Engine

Clean, quiet operation and superior power with ACERT™ Technology.

## **Cat C6.6**

The 323D L is equipped with a Cat C6.6 ACERT™ engine which is powerful, strong and durable meeting all of your application needs. An ECO-mode feature helps to reduce fuel consumption by up to 15% for fuel conscious customers. ACERT engines incorporate proven, robust components and precision manufacturing you can count on for reliable and efficient day-long operation.

## **Automatic Engine Speed Control**

Automatic Engine Control is activated during no-load or light-load conditions and reduces engine speed to minimize fuel consumption.

## **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.

## **Filtration System**

The C6.6 engine features an improved filtration system ensuring good reliability to fuel injection system components.

## **Low Sound, Low Vibration**

The Cat C6.6 improves operator comfort by reducing sound and vibration.



# Hydraulics

High efficiency and performance with low effort and precise control.



## Hydraulic System

Hydraulic system pressure is 35 000 kPa, with 205 L/min flow from each of the two hydraulic pumps for increased digging performance and productivity.

## Pilot System

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

## Component Layout

The 323D L 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.

## 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

Control Circuits are available as attachments which improves versatility. They allow 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 circuits save energy during boom-down and stick-in operations which increases efficiency, reduces cycle times and pressure loss for higher productivity, lower operating costs and increased fuel efficiency.

## Hydraulic Cylinder Snubbers

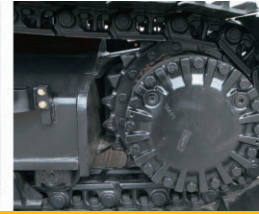
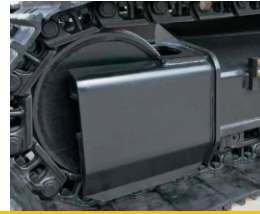
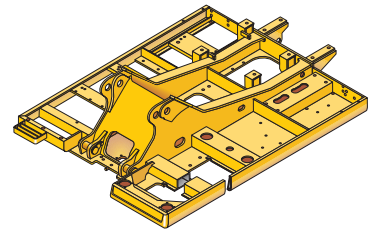
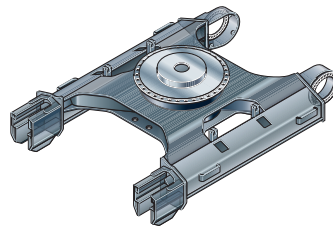
Snubbers are located at the rod-end of the boom cylinders and both ends of the stick cylinders to cushion shocks while reducing sound levels and extending component life.

## Hydraulic Activation Control Lever

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

## Climate Control

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



# Structures

Cat<sup>®</sup> excavators are designed to handle the most rugged operating conditions while providing long life and value.

## **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.

## **Main Frame**

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

## **Tracks**

The 323D L 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.

## **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.

## **Long Undercarriage**

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

# Operator Station

Designed for comfort, simple and easy operation, the 323D L allows the operator to focus on production.



## Operator Station

The ergonomically designed operator station is spacious, quiet and comfortable, assuring high productivity during a long work day. All switches are located on the right-hand console for convenient access.

## Monitor

The monitor is a full color 400×234 pixels Liquid Crystal Display (LCD) graphic display. The monitor angle can be adjusted to minimize sun glare and has the capability of displaying information in Chinese and twenty-six other languages.

## Joystick Control

Low effort, pilot operated joystick controls are designed to match the operator's natural wrist and arm position for maximum comfort and minimum fatigue.

## Seat

The standard suspension seat provides 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.

## Console

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

## Cab Exterior

The cab shell features thick steel tubing along the bottom perimeter of the cab, improving resistance to fatigue and vibration.

## Cab Mounts

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

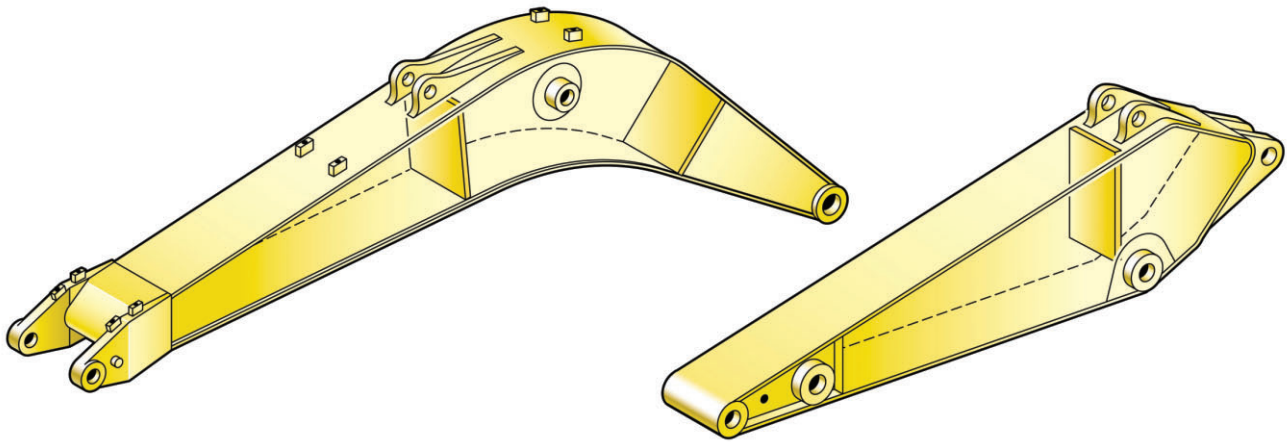
## Windows

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

## Wipers

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





# Booms and Sticks

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

## **Booms, Sticks and Attachments**

Cat front linkages are designed for maximum flexibility, productivity and high efficiency what ever the application.

### **Heavy Duty Reach Boom**

The heavy duty reach boom features an optimum design that maximizes digging envelopes with two stick choices, it also incorporates a large cross-section and internal baffle plates for long life and durability.

R2.5B1 and R2.9B1 stick options are also heavy duty and are made of high tensile strength steel using a large box section design with interior baffle plates and an additional bottom guard.



# Work Tools – Attachments

The 323D L has an extensive selection of work tools to optimize machine performance.

Cat Buckets and Cat Ground Engaging Tools (GET) are designed and matched to the machine ensuring optimal performance and fuel consumption. They are built to Caterpillar specifications guaranteeing quality and durability, whatever the application.

## **General Duty Buckets**

General Duty buckets have been designed for machines digging in low-impact, moderately abrasive materials such as dirt, loam, gravel and clay.

## **Heavy-Duty Buckets**

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

## **Severe Duty Buckets**

Severe duty are best suited to highly abrasive applications such as shot rock and granite.

## **Tool Control System**

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

## **Cat Hammers**

Cat B Series Breakers feature high performance and reliability and have been specifically designed to meet the differing needs of Chinese customers. They are the ideal choice for demolition, quarry, mining, general construction and many other applications.



# Service and Maintenance

Simplified service and maintenance features save you time and money.

## Ground Level Service

The design and layout of the 323D L was made with the service technician in mind. Many service locations are easily accessible at ground level allowing service and maintenance to get completed quickly and efficiently.

## Air Filter Compartment

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

## Pump Compartment

A service door on the right side of the upper structure allows ground-level access to the pump, pilot filter, and water separator with primary fuel filter.

## Radiator Compartment

The left rear service door allows easy access to the engine radiator, oil cooler, air-to-air-after-cooler, 2nd and 3rd fuel filters and fuel cooler. A reserve tank and drain cock are attached to the radiator for simplified maintenance.

## Capsule Filter

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

## Greasing Points

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

## Fan Guard

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

## Anti-Skid Plate

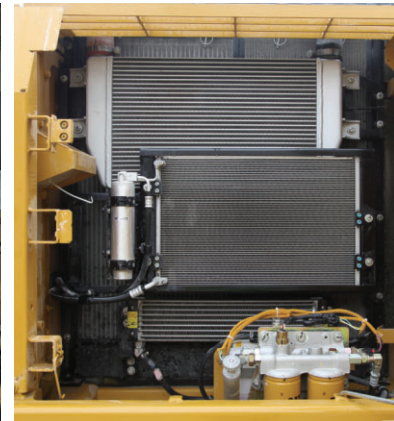
Anti-skid plate covers top of storage box and upper structure to prevent slipping during maintenance.

## Diagnostics and Monitoring

The 323D L 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 Cat Electronic Technician (Cat ET) service tool is located behind the cab.

## Extended Service Interval

323D L service and maintenance intervals have been extended to reduce machine service time and increase machine availability.





# Complete Customer Support

Cat dealer services help you operate longer with lower costs.

## **Product Support**

You will find nearly all parts at our dealer parts counter. Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine down time. Save money with remanufactured components.

## **Machine Selection**

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

## **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.

## **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.

## **Replacement**

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

# Cat<sup>®</sup> 323D L Total Solutions

Your excavator is more than a piece of equipment; it's your livelihood.

## More than a Machine

The Cat 323D L excavator provides all the elements to give you the lowest cost to own and operate. At the end of the day, it all comes down to how much work you got done and how much did it cost you. Caterpillar and the 323D L offer you the tools to help lower your owning and operating costs.

## Better Fuel Efficiency

Less fuel consumed per ton of earth/material moved. In addition, use of the Economy mode can result in as much as an additional 15% less fuel consumption.

## More Performance

Finish the job faster with high hydraulic horsepower.

## Proven Reliability and Durability

Maximizes your up-time and provides long life and value. The 323D L has endured thousands of hours of operation, through comprehensive field follow program, in a variety of applications throughout the world.

## Ease of Operation

Takes the complication out of operating. The monitor gives you vital operating and performance information, alerts in text, all in a simple, easy to navigate format.

## Better Serviceability

Making it easier to perform service and routine maintenance. The 323D L sets itself apart with the level of ground level access and maintenance features.

## Extended Maintenance Intervals

Less out of pocket expenses over the life of the machine. The 323D L provides industry leading maintenance intervals that provide less cost over the life of the machine.

## More Solutions

Caterpillar and its dealer network have the ability to match a solution best suited to your needs. Your Cat dealer helps you operate longer with lower costs, by assisting you with a plan that can cover everything from machine configuration to eventual replacement.



# 323D L Specifications

## Engine

Engine Model	Cat® C6.6 ACERT™
Net Power – SAE J1349/ISO 9249	110 kW
Gross Power – SAE J1995	118 kW
Bore	105 mm
Stroke	127 mm
Displacement	6.6 L

- The Cat C6.6 has capability to meet emission regulation of China Tier 2 and Stage 1 of sound regulation.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- No engine derating needed up to 3000 m.

## Weights

Operating Weight	22 550-22 620 kg
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- Heavy Duty Reach Boom (HD), Heavy Duty Stick (HD), 790 mm Track Shoes and 1.19 m<sup>3</sup> Bucket

## Service Refill Capacities

Fuel Tank Capacity	410 L
Cooling System	29 L
Engine Oil	22 L
Swing Drive	8 L
Final Drive (each)	10 L
Hydraulic System (including tank)	260 L
Hydraulic Tank	120 L

## Swing Mechanism

Swing Speed	11.5 rpm
Swing Torque	62 kN·m

## Drive

Maximum Drawbar Pull	206 kN
Maximum Travel Speed	5.6 km/L

## Hydraulic System

Main Implement System – Maximum Flow (2x)	205 L/min
Maximum Pressure – Equipment	35 000 kPa
Maximum Pressure – Travel	35 000 kPa
Maximum Pressure – Swing	25 000 kPa
Pilot System – Maximum Flow	32.4 L/min
Pilot System – Maximum Pressure	3900 kPa
Boom Cylinder – Bore	120 mm
Boom Cylinder – Stroke	1260 mm
Stick Cylinder – Bore	140 mm
Stick Cylinder – Stroke	1504 mm
B1 Family Bucket Cylinder – Bore	120 mm
B1 Family Bucket Cylinder – Stroke	1104 mm

## Sound Performance

### Performance

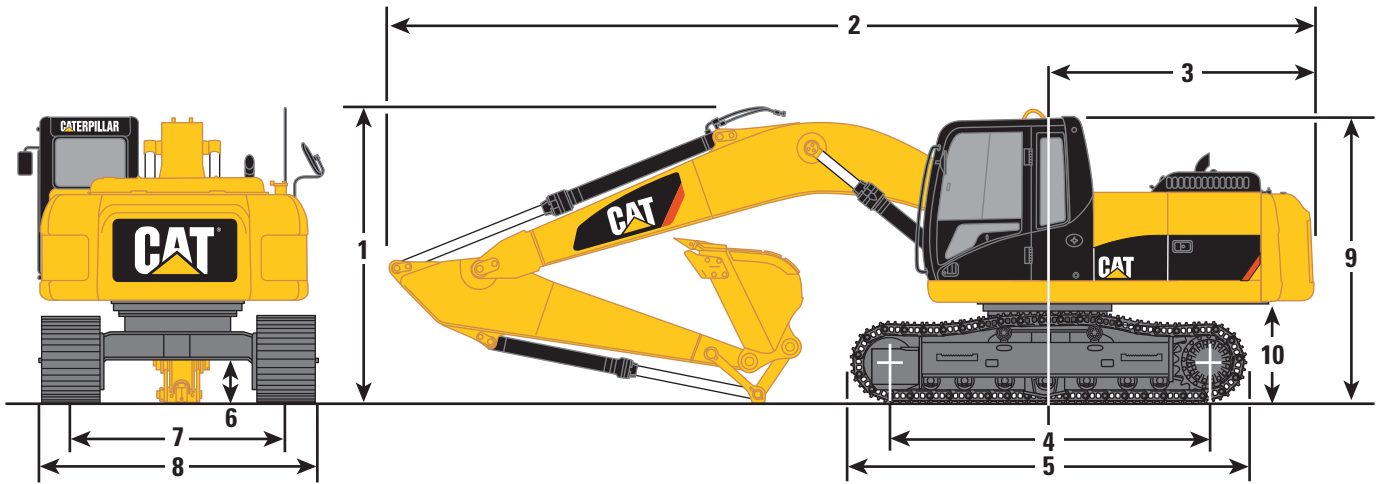
- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to China sound regulation Stage 1 requirement for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.

## Standards

Brakes	ISO 10265 2008
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## Dimensions

All dimensions are approximate.



### Boom Options

HD Reach  
5.7 m

### Stick Options

HD R2.9B1

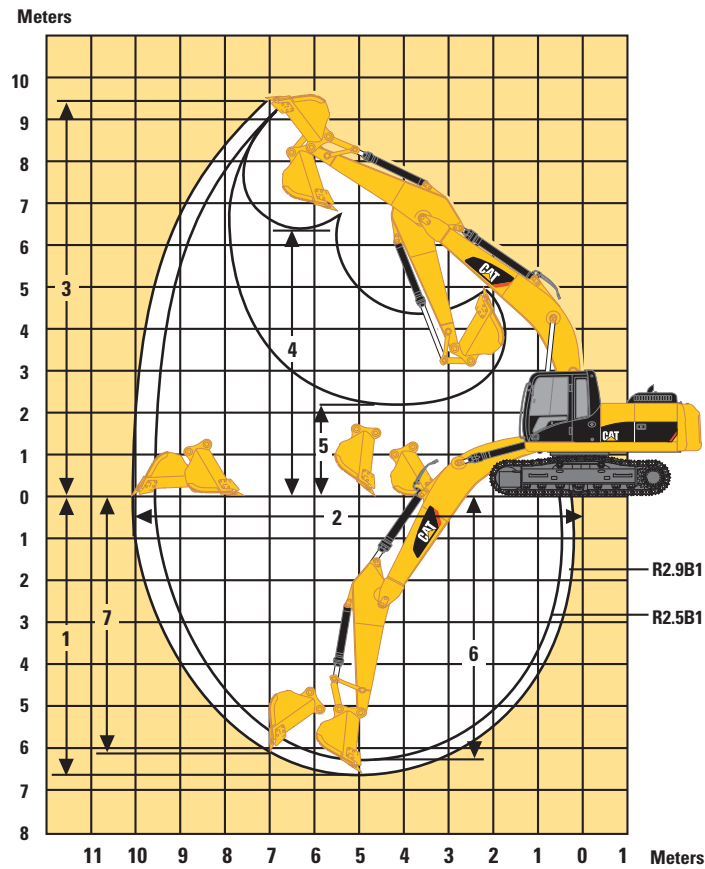
HD R2.5B1

	HD R2.9B1	HD R2.5B1
<b>1</b> Shipping Height (with bucket)	3030 mm	3050 mm
<b>2</b> Shipping Length	9460 mm	9460 mm
<b>3</b> Tail Swing Radius	2750 mm	2750 mm
<b>Long Fixed Undercarriage</b>		
<b>4</b> Length to Center of Idler and Sprocket	3650 mm	3650 mm
<b>5</b> Track Length	4455 mm	4455 mm
<b>6</b> Ground Clearance	450 mm	450 mm
<b>7</b> Track Gauge	2380 mm	2380 mm
<b>8</b> Track Width (790 mm)	3170 mm	3170 mm
<b>9</b> Cab Height	2950 mm	2950 mm
<b>10</b> Counterweight Height (to bottom)	1020 mm	1020 mm

# 323D L Specifications

## Reach Excavator Working Ranges

Reach (R) boom configuration.



### Boom Options

HD Reach  
5.7 m

### Stick Options

HD R2.9B1

HD R2.5B1

	HD R2.9B1	HD R2.5B1
1 Maximum Digging Depth	6720 mm	6300 mm
2 Maximum Reach at Ground Level	10 020 mm	9630 mm
3 Maximum Cutting Height	9490 mm	9290 mm
4 Maximum Loading Height	6490 mm	6290 mm
5 Minimum Loading Height	2170 mm	2590 mm
6 Maximum Depth Cut for 2440 mm Level Bottom	6370 mm	5950 mm
7 Maximum Vertical Wall Digging Depth	6060 mm	5650 mm

### Bucket and Stick Forces

Bucket Tip Radius	1570 mm	1570 mm
Bucket Forces (ISO 6015)	140 kN	140 kN
Stick Forces (ISO 6015)	106 kN	118 kN

All measurements are approximate.

## Machine and Major Component Weights

	kg
<b>Base machine with counterweight (without front linkage)</b>	
Long Undercarriage with 790 mm triple grouser shoes	7830
Upperstructure without counterweight	6270
Counterweight	4260
<b>Boom</b>	
Two Boom Cylinders (each)	190
5.7 m Heavy Duty Reach Boom (includes lines, pins, and stick cylinder)	2030
Stick Cylinder	290
<b>Stick</b>	
Heavy Duty Stick R2.9B1 (includes lines, pins, bucket cylinder and linkage)	1130
Heavy Duty Stick R2.5B1 (includes lines, pins, bucket cylinder and linkage)	1110
Bucket Cylinder B1	170
Bucket Linkage B1	140

## Bucket Specifications and Compatibility

Bucket Type	Family	Width mm	Weight kg*	Capacity L	Fill Factor	HD Reach Boom Stick	
						R2.9B1	R2.5B1
Heavy Duty (HD)	B	1232	926	1200	100%	●	●
	B	1360	1037	1300	100%	●	●
Severe Duty (SD)	B	1232	1077	1200	100%	●	●

With 790 mm triple grouser shoes.

\*Bucket weight including tips.

● 1800 kg/m<sup>3</sup> maximum material density

Bucket Type	Family	Width mm	Weight kg*	Capacity L	Fill Factor	HD Reach Boom Stick	
						R2.9B1	R2.5B1
Heavy Duty (HD)	B	1232	926	1200	100%	●	●
	B	1360	1037	1300	100%	◐	●
Severe Duty (SD)	B	1232	1077	1200	100%	●	●

With 600 mm triple grouser shoes.

\*Bucket weight including tips.

● 1800 kg/m<sup>3</sup> maximum material density

◐ 1500 kg/m<sup>3</sup> maximum material density

# 323D L Specifications

## Work Tool Matching Guide

Boom Options	HD Reach 5.7 m	
	HD R2.9B1	HD R2.5B1
Stick Options		
Tools:		
Vibratory Plate Compactor	CVP110	CVP110
Trash Grapple	2.7 m <sup>3</sup>	2.7 m <sup>3</sup>
Contractors' Grapple	Yes	Yes
Ripper	Yes	Yes
Mechanical Shear	Yes	Yes
Mechanical Pulverizer	Yes	Yes

## Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach

Boom – HD 5.7 m














Bucket – None

Undercarriage – Long

Stick – R2.9B1(HD)

Shoes – 790 mm triple grouser

Heavy Lift – Off

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m			m	
														
7.5 m	kg							*4451	*4451			*3843	*3843	6.15
6.0 m	kg							*4778	*4778			*3553	*3553	7.28
4.5 m	kg							*5247	*5247	*4909	3736	*3482	3352	7.98
3.0 m	kg					*7691	*7691	*6018	5082	*5229	3623	*3559	3044	8.35
1.5 m	kg					*9296	7216	*6825	4812	5557	3493	*3778	2926	8.44
Ground Line	kg			*6143	*6143	*10 177	6896	*7400	4617	5447	3392	*4187	2969	8.26
-1.5 m	kg	*6567	*6567	*10 680	*10 680	*10 262	6798	7473	4530	5409	3358	*4924	3207	7.78
-3.0 m	kg	*11 333	*11 333	*13 598	13 327	*9582	6857	*7091	4561			*5786	3779	6.94
-4.5 m	kg			*10 774	*10 774	*7739	7085					*5819	5239	5.60

Boom – HD 5.7 m














Bucket – None

Undercarriage – Long

Stick – R2.9B1(HD)

Shoes – 790 mm triple grouser

Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m			m	
														
7.5 m	kg							*4589	*4589			*3963	*3963	6.15
6.0 m	kg							*4945	*4945			*3666	*3666	7.28
4.5 m	kg							*5432	5349	*5086	3736	*3594	3352	7.98
3.0 m	kg					*7959	7786	*6232	5082	*5419	3623	*3673	3044	8.35
1.5 m	kg					*9624	7216	*7070	4812	5557	3493	*3898	2926	8.44
Ground Line	kg			*6329	*6329	*10 538	6896	7572	4617	5447	3392	*4320	2969	8.26
-1.5 m	kg	*6767	*6767	*10 995	*10 995	*10 628	6798	7473	4530	5409	3358	*5079	3207	7.78
-3.0 m	kg	*11 667	*11 667	*14 084	13 327	*9926	6857	*7350	4561			*6000	3779	6.94
-4.5 m	kg			*11 171	*11 171	*8026	7085					*6039	5239	5.60

\*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load.

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

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



## Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side

















Load at Maximum Reach

**Boom** – HD 5.7 m  
**Stick** – R2.9B1(HD)

**Bucket** – None  
**Shoes** – 600 mm triple grouser















**Undercarriage** – Long  
**Heavy Lift** – Off

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
														
7.5 m	kg							*4451	*4451			*3843	*3843	6.15
6.0 m	kg							*4778	*4778			*3553	*3553	7.28
4.5 m	kg							*5247	5221	*4909	3639	*3482	3261	7.98
3.0 m	kg					*7691	7598	*6018	4954	*5229	3526	*3559	2959	8.35
1.5 m	kg					*9296	7028	*6825	4684	5404	3396	*3778	2841	8.44
Ground Line	kg			*6143	*6143	*10 177	6709	7363	4489	5293	3295	*4187	2882	8.26
-1.5 m	kg	*6567	*6567	*10 680	*10 680	*10 262	6611	7265	4402	5256	3261	*4924	3114	7.78
-3.0 m	kg	*11 333	*11 333	*13 598	12 977	*9582	6669	*7091	4433			*5786	3672	6.94
-4.5 m	kg			*10 774	*10 774	*7739	6898					*5819	5099	5.60

**Boom** – HD 5.7 m  
**Stick** – R2.9B1(HD)

**Bucket** – None  
**Shoes** – 600 mm triple grouser















**Undercarriage** – Long  
**Heavy Lift** – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
														
7.5 m	kg							*4589	*4589			*3963	*3963	6.15
6.0 m	kg							*4945	*4945			*3666	*3666	7.28
4.5 m	kg							*5432	5221	*5086	3639	*3594	3261	7.98
3.0 m	kg					*7959	7598	*6232	4954	*5419	3526	*3673	2959	8.35
1.5 m	kg					*9624	7028	*7070	4684	5404	3396	*3898	2841	8.44
Ground Line	kg			*6329	*6329	*10 538	6709	7363	4489	5293	3295	*4320	2882	8.26
-1.5 m	kg	*6767	*6767	*10 995	*10 995	*10 628	6611	7265	4402	5256	3261	5002	3114	7.78
-3.0 m	kg	*11 667	*11 667	*14 084	12 977	*9926	6669	7300	4433			5928	3672	6.94
-4.5 m	kg			*11 171	*11 171	*8026	6898					*6039	5099	5.60

**Boom** – HD 5.7 m  
**Stick** – R2.5B1(HD)

**Bucket** – None  
**Shoes** – 790 mm triple grouser

**Undercarriage** – Long  
**Heavy Lift** – Off

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
														
7.5 m	kg											*4674	*4674	5.59
6.0 m	kg							*5180	*5180			*4279	*4279	6.83
4.5 m	kg					*6547	*6547	*5593	5276	*4724	3680	*4188	3623	7.57
3.0 m	kg					*8210	7628	*6318	5019	*5464	3591	*4289	3266	7.96
1.5 m	kg					*9667	7105	*7051	4768	5538	3478	*4575	3135	8.05
Ground Line	kg					*10 303	6856	*7518	4602	5451	3398	5107	3194	7.86
-1.5 m	kg			*11 265	*11 265	*10 155	6813	7489	4546			5605	3487	7.35
-3.0 m	kg			*12 715	*12 715	*9222	6916	*6791	4622			*6064	4213	6.46
-4.5 m	kg					*6819	*6819					*5895	*5895	4.98

\*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load.

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

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

# 232D L Specifications

## Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side

















Load at Maximum Reach

**Boom** – HD 5.7 m  
**Stick** – R2.5B1(HD)

**Bucket** – None  
**Shoes** – 790 mm triple grouser















**Undercarriage** – Long  
**Heavy Lift** – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
														
7.5 m	kg											*4816	*4816	5.59
6.0 m	kg							*5361	*5361			*4411	4360	6.83
4.5 m	kg					*6770	*6770	*5789	5276	*4869	3680	*4318	3623	7.57
3.0 m	kg					*8497	7628	*6542	5019	*5661	3591	*4422	3266	7.96
1.5 m	kg					*10 008	7105	*7303	4768	5538	3478	*4717	3135	8.05
Ground Line	kg					*10 668	6856	7551	4602	5451	3398	5107	3194	7.86
-1.5 m	kg			*11 596	*11 596	*10 517	6813	7489	4546			5605	3487	7.35
-3.0 m	kg			*13 173	*13 173	*9555	6916	*7039	4622			*6288	4213	6.46
-4.5 m	kg					*7076	*7076					*6119	*6119	4.98

**Boom** – HD 5.7 m  
**Stick** – R2.5B1(HD)

**Bucket** – None  
**Shoes** – 600 mm triple grouser















**Undercarriage** – Long  
**Heavy Lift** – Off

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
														
7.5 m	kg											*4674	*4674	5.59
6.0 m	kg							*5180	*5180			*4279	4251	6.83
4.5 m	kg					*6547	*6547	*5593	5148	*4724	3583	*4188	3526	7.57
3.0 m	kg					*8210	7440	*6318	4891	*5464	3494	*4289	3176	7.96
1.5 m	kg					*9667	6918	*7051	4640	5385	3381	*4575	3045	8.05
Ground Line	kg					*10 303	6669	7343	4474	5298	3301	4962	3102	7.86
-1.5 m	kg			*11 265	*11 265	*10 155	6625	7280	4418			5447	3388	7.35
-3.0 m	kg			*12 715	*12 715	*9222	6729	*6791	4494			*6064	4096	6.46
-4.5 m	kg					*6819	*6819					*5895	*5895	4.98

**Boom** – HD 5.7 m  
**Stick** – R2.5B1(HD)

**Bucket** – None  
**Shoes** – 600 mm triple grouser

**Undercarriage** – Long  
**Heavy Lift** – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
														
7.5 m	kg											*4816	*4816	5.59
6.0 m	kg							*5361	5310			*4411	4251	6.83
4.5 m	kg					*6770	*6770	*5789	5148	*4869	3583	*4318	3526	7.57
3.0 m	kg					*8497	7440	*6542	4891	5509	3494	*4422	3176	7.96
1.5 m	kg					*10 008	6918	*7303	4640	5385	3381	*4717	3045	8.05
Ground Line	kg					*10 668	6669	7343	4474	5298	3301	4962	3102	7.86
-1.5 m	kg			*11 596	*11 596	*10 517	6625	7280	4418			5447	3388	7.35
-3.0 m	kg			*13 173	13 109	*9555	6729	*7039	4494			*6288	4096	6.46
-4.5 m	kg					*7076	7035					*6119	6115	4.98

\*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load.

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

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

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

## Upper Structure

### Electrical

- Alternator, 80A
- Light, storage box mounted (one)
- Signaling/Warning horn
- Starter Motor, 8 kW

### Engine

- C6.6 with ACERT™ Technology
- 3000 m altitude capability with no deration
- 4 fuel filtrations (4 micron)
- China Beijing and China National Emission package
- Mandatory to meet Beijing Emissions Regulation DB 11/185-2003, DB11/184-2003 and China National Standard GB 17691-2001
- Meet emission regulation of China Tier 2 and Stage 1 of sound regulation
- Glow plug
- Automatic engine speed control with one touch low idle
- High ambient cooling package (for China)
- Radial seal air filter
- Water separator in fuel line with 4 micron fuel filter with water level indicator
- Waved fin radiator with space for cleaning
- Auxiliary hydraulic valve (one)
- Automatic swing parking brake
- Boom drift reducing valve
- Boom lowering device for back-up
- Batteries (2×900 cca)
- Capability of stackable valves for main valve (maximum three valves)
- Capability of auxiliary circuit (auxiliary pump and valves)
- Capability of boom and stick lowering control device
- Cat data link with capability of E.T.

- Cat one key security system
- Counterweight
- Door locks and cap locks
- Swing type condenser core for air conditioning
- Product Link (China) – PL 522
- Mirrors, rearview (frame-right, cab-left)
- Regeneration circuit for boom and stick
- Reverse swing damping valve
- Secondary engine shutoff switch
- Steel wall between engine and pump compartment
- Stick drift reducing valve
- Straight travel hydraulic circuit
- Two speed travel

### Undercarriage

- Idler and center section track guiding
- Towing eye on baseframe
- Grease lubricated track GLT2
- Heavy duty rollers

### Operator Station

- Cab
- Adjustable armrest
- Antenna and Harness (without radio speakers)
- Ashtray and lighter
- Beverage holder
- Bi-Level air conditioner (automatic) with defroster
- Capability of installing two additional pedals
- Coat hook
- Front windshield glass split 70/30
- Interior lighting
- Control lever joysticks
- Laminated front windshield and tempered other windows

- Literature holder
  - Mounting for two stereo speakers (two locations)
  - Neutral lever (lock out) for all controls
  - Openable front windshield with assist device
  - Openable polycarbonate roof hatch
  - Pillar mounted upper windshield wiper and washer
  - Positive filtered ventilation
  - Pressurized cab (Positive filtered ventilation)
  - Radio mounting (DIN size)
  - Rear window, emergency exit
  - Removable lower windshield with in-cab storage bracket
  - Seat suspension, four way adjustable high back with integrated, adjustable console
  - Seat belt, retractable (two inch width)
  - Sliding upper door window
  - Start Switch Panel
  - Travel control pedals with removable hand levers
  - Utility space for magazine
  - Washable floor mat
- ### Monitor
- Full time clock
  - High Horse Power (HHP) mode, Standard Horse Power (SHP) mode and Economy mode
  - Language display – Full color and graphical display
  - Machine condition, error code and tool mode setting
  - Start-up level check for hydraulic oil, engine oil and coolant
  - Warning information, filter/fluid change information and working hour

# 323D L Optional Equipment

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

## Front Linkage

- Bucket linkage, B1-family
- Heavy duty 5.7 m reach boom  
(with left side light)
- Heavy duty R2.9B1 stick for heavy duty reach boom
- Heavy duty R2.5B1 stick for heavy duty reach boom

## Bucket

- Heavy duty 1.2 m<sup>3</sup>
- Heavy duty 1.3 m<sup>3</sup>
- Severe duty 1.2 m<sup>3</sup>
- Severe duty 1.4 m<sup>3</sup>

## Bucket Attachments

- Tips, Side cutters and Side protectors

## Tracks

- 600 mm double grouser shoes
- 600 mm triple grouser shoes
- 790 mm triple grouser shoes
- Full length track guiding guard

## Operator Station

- Cab light
- Starting kit, cold weather, -32° C  
(with 2 additional batteries (900 cca)  
and ether aid)

## Ether aid for cold weather package

## Air prefilter

## Converter (2 sockets, max 10A)

- Guard Package include (HD) Bottom,  
(HD) travel motor, swivel

## Auxiliary Hydraulics and lines

### Boom and stick lines

### Tool control system

#### Common, 1 way and 2 ways

- Foot pedals operated 1/2P, common circuit for sheers, pulverizes, thumbs, cutter etc.

#### Hammer, 1 way only

- Foot pedal operated 2P, one way circuit for hammers, pile drivers etc.







# 323D L Hydraulic Excavator

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AEHQ6444 (11-2011)

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