

326D L

Hydraulic Excavator



Engine

Engine Model	Cat® C7 with ACERT™ Technology
Gross Power – SAE J1995	147 kW
Net Flywheel Power – SAE J1995	140 kW

Weight

Operating Weight	25 560 kg
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326D L Features

Engine and Hydraulics

A powerful Cat® C7 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 326D L Total Solutions

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

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

Engine

The Cat[®] C7 gives the 326D L exceptional power and fuel efficiency unmatched in the industry for consistently high performance in all applications.

Cat C7

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

Automatic Engine Speed Control.

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

Flexible Fuel Options.

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

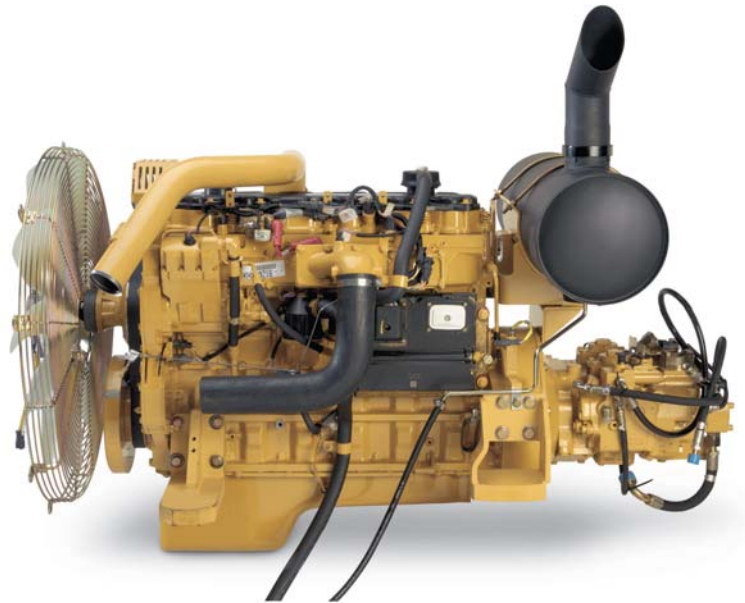
Power Management. Power Management optimizes machine performance for each type of application. The operator can change the engine power through the monitor (password protected) from standard to high. The high power mode is recommended for extremely productive and hard digging applications.

Air Cleaner

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

Noise Reduction Technologies

The engine mounts are rubber-isolating mounts matched with the engine package.



Hydraulics

High efficiency and performance with low effort and precise control.



Hydraulic System

Hydraulic system pressure is 35 000 kPa, with 235 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 326D 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

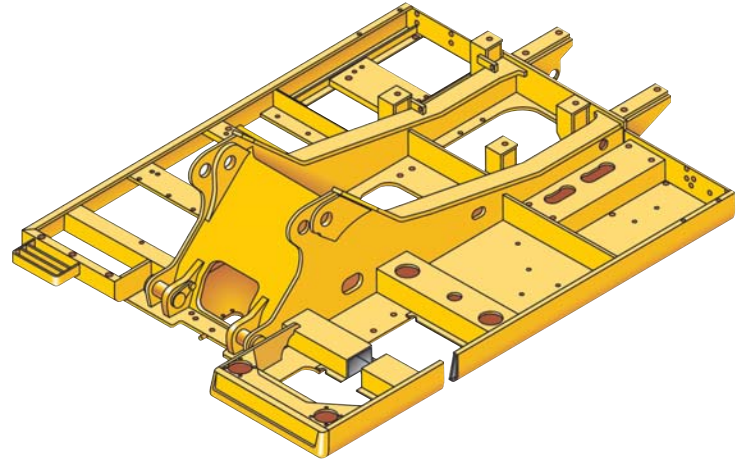
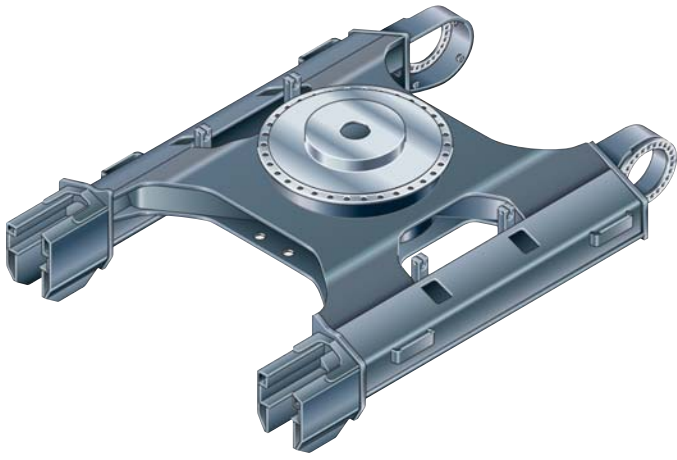
Snubbers are located at the rod-end of the boom cylinders and both ends of the stick cylinders to cushion shocks while reducing sound levels and extending component life.

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

326D L structural components and undercarriage are the backbone of the machine's durability.

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.

Undercarriage

Durable Cat undercarriage absorbs stresses and provides excellent stability. The long (L) undercarriage maximizes stability and lift capacity. This long, wide, and sturdy undercarriage offers a very stable work platform.

Rollers and Idlers

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

Operator Station

Designed for comfort, simple and easy operation, the 326D 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 Liquid Crystal Display (LCD) graphic display. The monitor angle can be adjusted to minimize sun glare and has the capability of displaying information in twenty-seven 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.

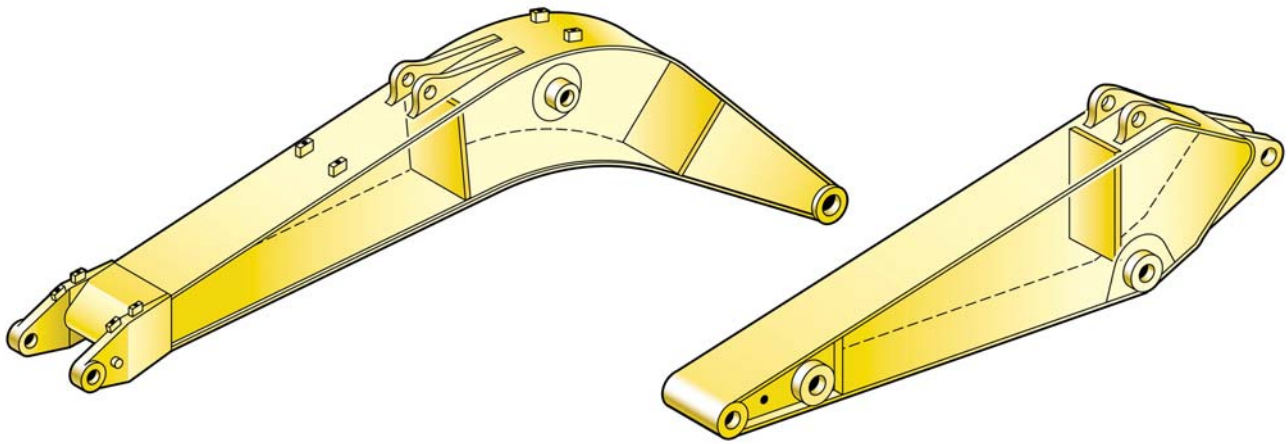
Windows

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 326D 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.

Hammers

Cat B Series Breakers are designed to meet the differing needs of Chinese customers. They are the ideal choice for demolition, quarry, mining, general construction and many other applications. The introduction of the B Series Hammer model for 326D L will be communicated separately.

Cat® E Series hammers are the first 100% Caterpillar designed and manufactured hammers. The features such as automatic shutoff and external adjusted operating pressure are fully leveraged and combined with a new housing design guarantee outstanding performance for quarry and demolition applications.

Service and Maintenance

Simplified service and maintenance features save you time and money.

Ground Level Service

The design and layout of the 326D 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 and pilot filter.

Radiator Compartment

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

Capsule Filter

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

Greasing Points

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

Fan Guard

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

Anti-Skid Plate

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

Diagnostics and Monitoring

The 326D L is equipped with S·O·SSM sampling ports and hydraulic test ports for the hydraulic system, engine oil, and for coolant. A test connection for the Caterpillar Electronic Technician (Cat ET) service tool is located behind the cab.

Extended Service Interval

326D 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. Condition Monitoring Services and 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[®] 326D L Total Solutions

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

More than a Machine

The Cat 326D 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 326D 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 326D 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 326D 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 326D 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.



326D L Hydraulic Excavator Specifications

Engine

Engine Model	Cat [®] C7 with ACERT™ Technology
Net Flywheel Power	140 kW
Net Power – ISO 9249	140 kW
Bore	110 mm
Stroke	127 mm
Displacement	7.2 L

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

Weights

Operating Weight – Long Undercarriage	25 560 kg
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- Reach boom, R2.95CB1 Stick, 600 mm Shoes
- Bucket Package, 1252 mm 1.35 m³ (HD) 342-9494 1
- Bucket Package, 1252 mm 1.35 m³ (SD) 342-9496 1
- Bucket Package, 1404 mm 1.57 m³ (HD) 342-9499 1

Track

Triple Grouser	600 mm
Double Grouser	600 mm

Swing Mechanism

Swing Speed	9.6 rpm
Swing Torque	73.4 kN•m

Drive

Maximum Drawbar Pull	227 kN
Maximum Travel Speed	5.5 km/h

Hydraulic System

Main Implement System – Maximum Flow (2x)	235 L/min
Max. Pressure – Equipment	35 000 kPa
Max. Pressure – Travel	35 000 kPa
Max. Pressure – Swing	24 500 kPa
Pilot System – Maximum Flow	32.4 L/min
Pilot System – Maximum Pressure	3900 kPa
Boom Cylinder – Bore	135 mm
Boom Cylinder – Stroke	1305 mm
Stick Cylinder – Bore	140 mm
Stick Cylinder – Stroke	1660 mm
CB1 Family Bucket Cylinder – Stroke	1156 mm
DB Family Bucket Cylinder – Bore	150 mm

Service Refill Capacities

Fuel Tank Capacity	520 L
Cooling System	30 L
Engine Oil	30 L
Swing Drive	10 L
Final Drive (each)	6 L
Hydraulic System (including tank)	300 L
Hydraulic Tank	145 L

Sound Performance

Performance	ANSI/SAE J1166 APR 90
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- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT 98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.

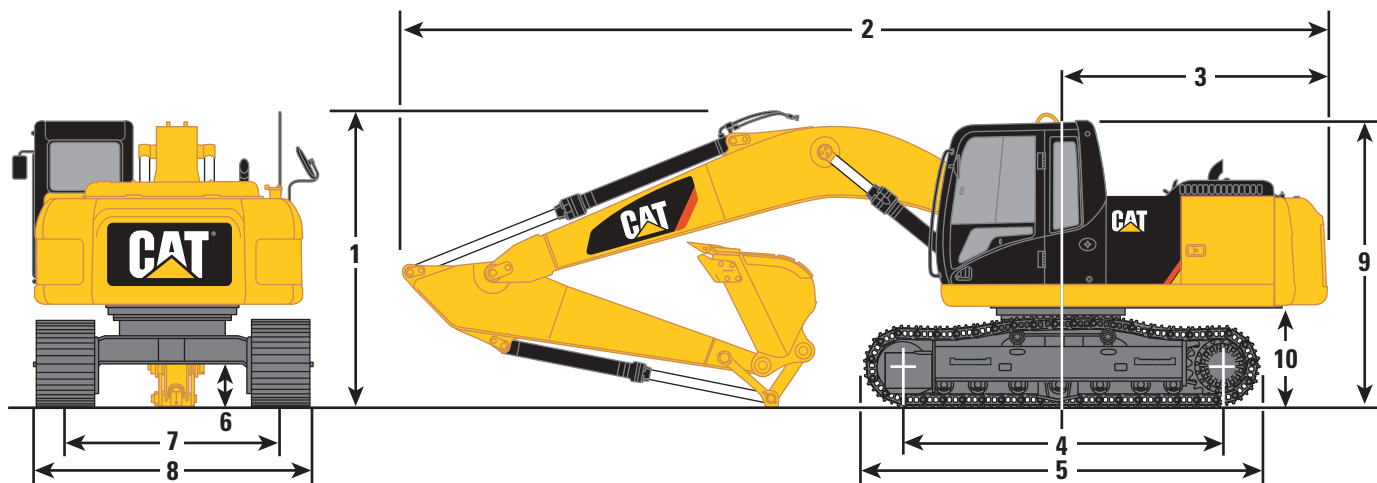
Standards

Brakes	SAE J1026 APR90
Cab/FOGS	SAE J1356 FEB88

326D L Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate.



Boom Options	Reach Boom 5.9 m	Mass Boom 5.3 m	
Stick Options	R2.95CB1	M2.5DB	M2.0DB
1 Shipping height*	3170 mm	3450 mm	3320 mm
2 Shipping length	10 060 mm	9480 mm	9610 mm
3 Tail swing radius	2940 mm	2940 mm	2940 mm
Undercarriage	Long Fixed Gauge		
4 Length to center of rollers	3830 mm		
5 Track length	4630 mm		
6 Ground clearance**	470 mm		
7 Track gauge	2590 mm		
8 Track width	3390 mm		
9 Cab height*	2980 mm		
10 Counterweight clearance**	1060 mm		

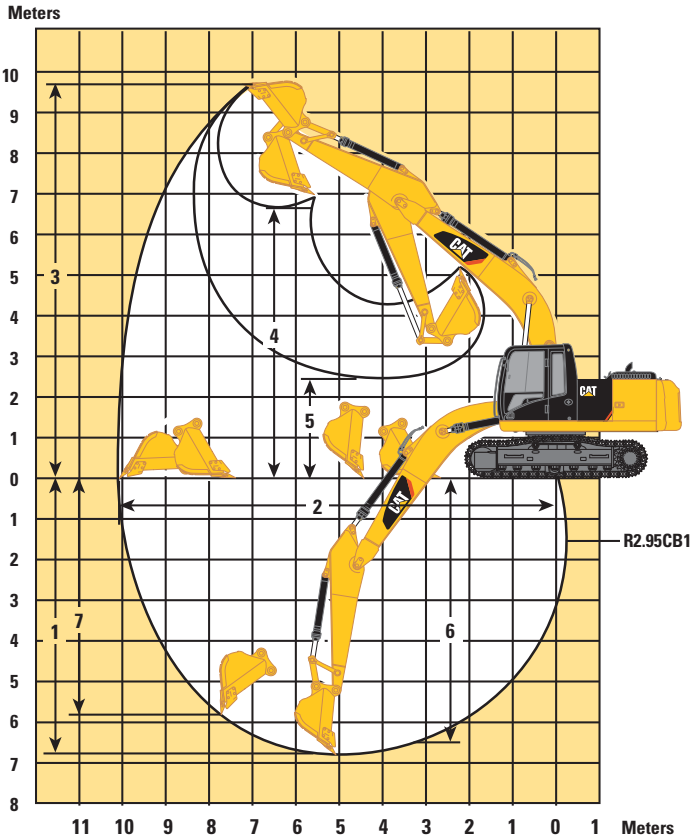
* Includes 30 mm shoe lug height.

** Without 30 mm shoe lug height.

326D L Hydraulic Excavator Specifications

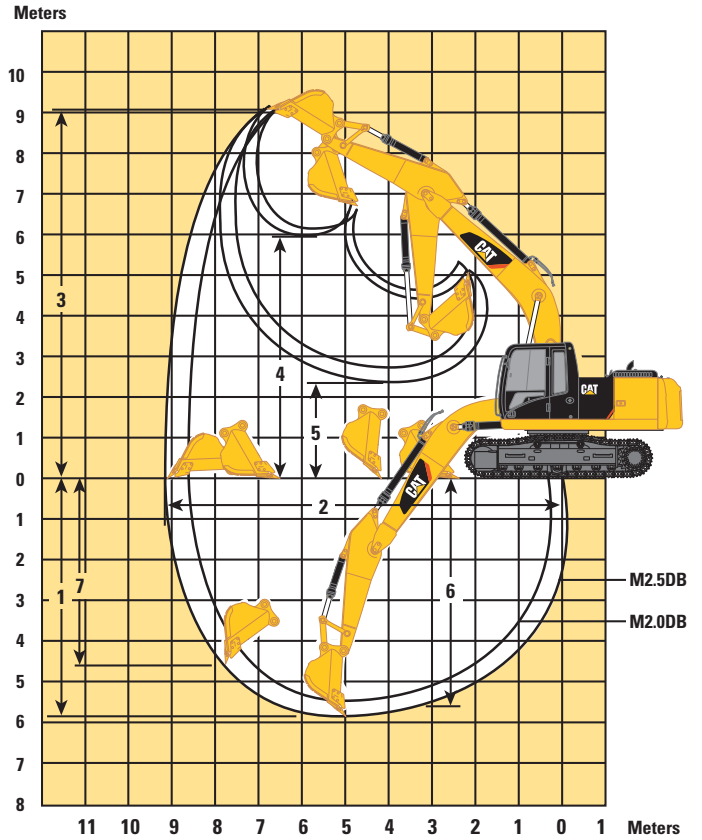
Reach Excavator Working Ranges

Reach (R) boom configuration



Mass Excavator Working Ranges

Mass (M) boom configuration



Boom Options

Stick Options

- 1 Maximum digging depth
- 2 Maximum reach at ground level
- 3 Maximum cutting height
- 4 Maximum loading height
- 5 Minimum loading height
- 6 Maximum depth cut for 2240 mm level bottom
- 7 Maximum vertical wall digging depth

Reach Boom

R2.95CB1

Mass Boom

M2.5DB

M2.0DB

1 Maximum digging depth	6740 mm	5910 mm	5410 mm
2 Maximum reach at ground level	10 030 mm	9110 mm	8650 mm
3 Maximum cutting height	9660 mm	9060 mm	8830 mm
4 Maximum loading height	6700 mm	5970 mm	5750 mm
5 Minimum loading height	2470 mm	2360 mm	2860 mm
6 Maximum depth cut for 2240 mm level bottom	6560 mm	5720 mm	5190 mm
7 Maximum vertical wall digging depth	5830 mm	4590 mm	4120 mm
Bucket digging force	(SAE)	154 kN	198 kN
	(ISO)	174 kN	222 kN
Stick digging force	(SAE)	118 kN	154 kN
	(ISO)	122 kN	160 kN

326D L Hydraulic Excavator Specifications

Major Component Weights

Base machine with counterweight (without front linkage)	With 600 mm shoe	19 450 kg
Two boom cylinders (each)		227 kg
Counterweight		
Non-removal type		4520 kg
Boom (includes lines, pins and stick cylinder)		
Reach boom		2033 kg
Mass boom		2138 kg
Stick (includes lines, pins, bucket cylinder and linkage)		
R2.95CB1		1208 kg
Track roller frame	With 600 mm shoe	7950 kg

Work Tool Matching Guide

Bucket AR P/N	Linkage	Bucket Type	Capacity	Width	GET	Edge	Weight
342-9494	CB	HD	1.35 m ³	1252 mm	J400 × 5	Straight	1306 kg
342-9499	CB	HD	1.57 m ³	1404 mm	J400 × 6	Straight	1332 kg
342-9496	CB	SD	1.35 m ³	1252 mm	J400 × 5	Straight	1345 kg

Note: The introduction of the E Series buckets will be communicated separately.

Cat® Buckets are developed and tested along with your Cat Excavator to provide exceptional performance and reliability.

Caterpillar offers a wide range of excavator buckets with solutions for digging, excavating, loading and finishing. Each bucket is designed and tested to function as an integral part of your excavator.

326D L Hydraulic Excavator Specifications

Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach

Boom – Reach













Stick – R2.95CB1 (HD)

Bucket – None

Shoes – 600 mm triple grouser

Undercarriage – Long

Counterweight – 4.75 mt

		3.0 m		4.5 m		6.0 m		7.5 m				m
												
7.5 m	kg					*6450	*6450			*5400	*5400	6.42
6.0 m	kg					*6500	*6500	*5150	4750	*5100	4750	7.51
4.5 m	kg			*8500	*8500	*7250	6650	*6650	4700	*5100	4050	8.18
3.0 m	kg			*10 850	9700	*8350	6350	6850	4550	*5300	3700	8.53
1.5 m	kg			*12 950	9050	9400	6000	6700	4400	5450	3550	8.61
Ground Line	kg			*13 900	8700	9150	5800	6550	4250	5550	3650	8.42
-1.5 m	kg	*10 400	*10 400	*13 800	8650	9050	5700	6500	4200	6000	3900	7.94
-3.0 m	kg	*17 050	*17 050	*12 800	8700	9050	5750			7100	4600	7.11
-4.5 m	kg	*14 200	*14 200	*10 450	8950					*7750	6250	5.78

Boom – Reach

Stick – R2.95CB1 (HD)













Bucket – None

Shoes – 600 mm triple grouser

Undercarriage – Long

Counterweight – 4.75 mt

Heavy Lift – On

		3.0 m		4.5 m		6.0 m		7.5 m				m
												
7.5 m	kg					*6650	*6650			*5550	*5550	6.42
6.0 m	kg					*6750	*6750	*5300	4750	*5250	4750	7.51
4.5 m	kg			*8800	*8800	*7500	6650	*6850	4700	*5250	4050	8.18
3.0 m	kg			*11 250	9700	*8600	6350	6850	4550	*5450	3700	8.53
1.5 m	kg			*13 350	9050	9400	6000	6700	4400	5450	3550	8.61
Ground Line	kg			*14 350	8700	9150	5800	6550	4250	5550	3650	8.42
-1.5 m	kg	*10 750	*10 750	*14 300	8650	9050	5700	6500	4200	6000	3900	7.94
-3.0 m	kg	*17 550	17 450	*13 250	8700	9050	5750			7100	4600	7.11
-4.5 m	kg	*14 700	*14 700	*10 800	8950					*8050	6250	5.78

*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

Engine

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

Operator Station

Cab

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

Monitor

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

Undercarriage

- Grease lubricated GLT2, resin seal
- Idler and center section track guiding
- 600 mm triple grouser track shoes
- 600 mm double grouser track shoes

326D L Optional Equipment

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

Front Linkage

- Bucket linkage, CB1-family (without lifting eyes)
- Heavy-duty 5.9 m reach boom
- Heavy-duty R2.95CB1 heavy-duty stick for heavy-duty reach boom
- Heavy-duty R2.95CB1 heavy duty with rebar stick for heavy-duty boom

Bucket

- Heavy Duty, 1.35 m³
- Heavy Duty, 1.57 m³
- Severe Duty, 1.35 m³

Bucket attachments

- Tips, side cutters and side protectors

Tracks

- 600 mm double grouser shoes
- 600 mm triple grouser shoes

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.

- Starting kit, cold weather, additional 2×batteries

Weather Attachment

- Cold starter kit, -32° C ambient

Full length track guiding guard

Air prefilter

Converter (2 sockets, max 10A)

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

Cab light

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

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See your Cat dealer for available options.

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