

325F L

Hydraulic Excavator

2017



Engine

| | | |
|----------------------------|------------------|--------|
| Engine Model | Cat® C4.4 ACERT™ | |
| Power – ISO 14396 (metric) | 122 kW | 166 PS |
| Power – ISO 9249 (metric) | 120 kW | 163 PS |

Drive

| | |
|----------------------|----------|
| Maximum Travel Speed | 5.6 km/h |
| Maximum Drawbar Pull | 203 kN |

Weights

| | |
|--------------------------|-----------|
| Minimum Operating Weight | 25 610 kg |
| Maximum Operating Weight | 27 230 kg |

Picture yourself behind the joysticks of one of the world's finest compact radius excavators, the Cat 325F L. This machine features a highly efficient U.S. EPA Tier 4 Final/EU Stage IV C4.4 ACERT engine that's miserly on fuel paired with a state-of-the-art hydraulic system that's responsive to your every command. Each pull of the "sticks" will feel like a natural extension of yourself – with the inhuman ability to lift roughly 12 000 kg. This smooth, controlled power puts you in place to literally move tons of material all day long with tremendous speed, precision, and confidence.

When you add in robust structures that keep you grounded and balanced, an operator environment that enhances your comfort and productivity, service points that make your routine maintenance fast and simple, available Cat Grade Control to help you create precise planes and slopes with ease, and multiple Cat work tools and tool control system that enable you to quickly take on a variety of tasks, you simply won't find a better built, more reliable, more versatile, or more rewarding excavator in its size class – from any company, anywhere.

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Compact Radius

Sized right for tight quarters work

Work with Confidence

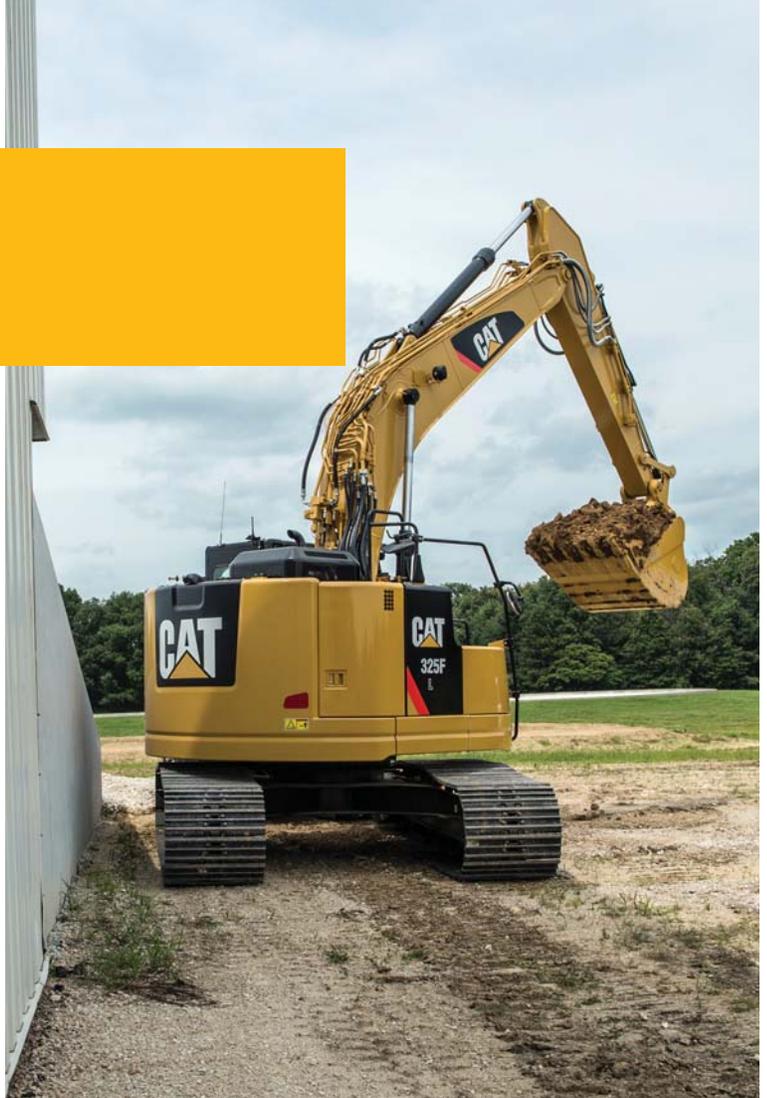
The 325F L's compact radius design makes it ideal for working confidently in space-restricted areas like road jobs with lane closures and next to buildings or other structures you'd like to not damage. With a front swing radius of 2.34 m and a tail swing radius of 1.72 m, the machine can dig, swing, and dump within a working space of 4.06 m. When rotated 90 degrees and working over the side, just 135 mm of counterweight extends beyond the track width, which allows trucks and jersey barriers to be positioned closer to the machine.

Work with Power

Unlike a standard radius machine, the 325F L's boom is positioned toward the center of the machine. Not only does this help reduce the front swing radius, but it also supports more lift capacity over the front due to greater stability.

Work with Comfort

The machine features a full-size ROPS (roll-over protective structure) certified cab. With low sound levels, high visibility, convenient access to switches and controls, and a fully adjustable seat, you will find it comfortable to work in all day long.





Fuel Efficient

Powerful and fuel efficient to meet your expectations

Proven Technology

Every Tier 4 Final/Stage IV ACERT engine is equipped with a combination of proven electronic, fuel, air, and aftertreatment components. Applying these time-tested technologies lets us meet your high expectations for productivity, fuel efficiency, reliability, and service life.

Following are the results you can expect:

- **Improved fuel efficiency** over previous model Tier 3/Stage IIIA 321D L CR.
- **High performance** across a variety of applications.
- **Enhanced reliability** through commonality and simplicity of design.
- **Maximized uptime and reduced cost** with world-class Cat dealer support.
- **Minimized impact on emission systems** – with no operator interaction required.
- **Durability** with long service life.
- **Better fuel economy** with minimized maintenance costs.
- **Same great power and response.**

Less Fuel, More Power

While the 325F L consumes less fuel than the Tier 3/Stage IIIA model (321D L CR), the engine actually delivers nearly 4% more new horsepower. How's that possible? Simple. Advanced engine technology and system control. Isochronous control, for example, permits the engine to run at a constant lower speed but at an optimum point in the power curve for maximum efficiency. Automatic engine speed control also contributes by lowering rpm when the machine isn't calling for it. Automatic engine idle shutdown turns the engine off when it's been idling for more than a specified amount of time, which you can easily set through the monitor. Plus you have a choice of three power modes – high power, standard power, and eco mode. Simply change between modes through the switch panel to meet the work needs in front of you. Collectively, all of these benefits add up to reduced fuel consumption, reduced repair and maintenance costs, and increased engine life for you.

Biodiesel Not a Problem

The C4.4 ACERT engine can run on up to B20 biodiesel that meets ASTM 6751 standards – all to give you more potential fuel-saving flexibility.

Reliable and Productive

Power to move your material with maximum speed, ease, and precision



A Forceful, Responsive Design

What's really new with the 325F L is the hydraulic valve's electronic control. Integrated with the electronic engine, the hydraulic power with electronic control is smoother and more responsive than traditional hydraulic control. It also contributes to less energy consumption and less wear and tear, and both of those translate into lower owning and operating costs for you.

A Logical Layout

All major hydraulic components are strategically located close together. This positioning leads to reduced friction loss and pressure drops, and the result is more hydraulic horsepower for the heavy-lifting, ground-breaking work you need to get done.

Tool Control for Enhanced Performance

Tool control is a distinct Cat excavator advantage that adds incredible convenience and enhanced performance to your everyday work. The electronic system stores flows and pressures for up to 20 work tools right in the cab monitor, eliminating the need to calibrate tools every time you make a change out front. It works with both one- and two-way-flow tools, and it can be outfitted with a third pump and medium-pressure circuit so you can use tools like shears, grapples, and tilt buckets. Adding an optional quick coupler circuit makes tool changes even faster for maximum productivity.



Easy to Operate

Comfort and convenience to keep you productive all day long



Safe and Quiet Cab

The ROPS certified cab contributes to your comfort thanks to special viscous mounts and special roof lining and sealing, that limit vibration and unnecessary sound. Operators will enjoy the quietness and comfort of the all new cab.

Excellent Ergonomics

Wide seats with air suspension and heat options, include a reclining back, upper and lower slide adjustments, and height and tilt angle adjustments to meet your needs for maximum comfort.

The fully automatic climate control system keeps operators comfortable and productive all day long in either hot or cold weather.

Storage spaces are located in the front, rear, and side consoles of the cab. A drink holder accommodates a large mug, and a shelf behind the seat stores large lunch or toolboxes.

Power supply sockets are available for charging your electronic devices like an MP3 player, a cell phone, or even a tablet.

Controls Just for You

The right and left joystick consoles can be adjusted to improve your comfort and productivity during the course of a day. The right joystick features a button that will reduce engine speed when you are not working to help save fuel. Touch it once and speed reduces; touch it again and speed increases for normal operation.



A Helpful Monitor

The new LCD monitor is easy to see and navigate. Not only can it memorize up to 10 different work tools, it's also programmable in up to 44 languages to meet today's diverse workforce. The monitor clearly displays critical information you need to operate efficiently and effectively. Plus it projects the image from the standard rearview and side view camera to help you see what's going on around you so you can stay safely focused on the job at hand.

Durable Structures

Designed to work in your rugged applications



Robust Frame

The 325F L is a well-built machine designed to give you a very long service life. The upper frame has mountings made specifically to support the heavy-duty cab; it's also reinforced around key areas that take on stress like the boom foot and skirt. Massive bolts are used to attach the track frames to the body, and additional bolts are used throughout to increase the machine's digging force, which leads to more productivity for you.

Stable Undercarriage

The 325F Long undercarriage contributes significantly to its outstanding stability and durability. Track shoes, links, rollers, idlers, and final drives are all built with long-lasting, high-tensile-strength steel. Cat Grease Lubricated Track 2 (GLT2) track link protects moving parts by keeping water, debris, and dust out and grease sealed in, which delivers longer wear life and reduced noise when traveling. Optional guide guards help maintain track alignment to improve the machine's overall performance – whether you're traveling on a flat, heavy bed of rock or a steep, wet field of mud.

Huge Counterweight

The counterweight weighs 6800 kg to help enhance lift capability – out front and over the side. Rounded to minimize the amount of overhang, the weight is bolted directly to the main frame using massive bolts to ensure maximum rigidity. Plus the counterweight has an integrated housing to help protect the machine's standard rearview camera.





Durable Linkages

Options to take on your far-reaching and up-close tasks

Built to Last

Each boom and stick is built with internal baffle plates for additional durability, and each undergoes ultrasound inspection to ensure quality and reliability. Large box-section structures with thick, multi-plate fabrications, castings, and forgings are used in high-stress areas such as the boom nose, boom foot, and boom and stick cylinders to enhance durability for the tough work you do.

Boom and Stick

The Reach boom and stick combination provides excellent all-around versatility whether you are picking and placing underground utilities or top loading trucks.

The Variable Angle (VA) boom* configuration offers superb flexibility and versatility in the working envelope. Boom position can be adjusted from 90° when fully retracted to 180° and fully extended. With full extension, the working range gives maximum dig depth, reach, and working height. Equally, when retracted, it can work closer to its tracks, increase lifting capacity, and work in confined areas.

Link and Pins

The power link between the stick and bucket is designed for long-term heavy-duty lifting. With an integrated lifting eye, the power link helps enhance machine lifting capability by lowering your load point and maximizing the power built into the boom cylinders. All pins used in the front linkage have thick chrome plating to give them high wear and corrosion resistance. The large diameter pins distribute load weight to ensure long pin, boom, and stick life.

*For Europe only.

Talk to your Cat dealer to pick the best front linkage for your specific line of work.

Versatile

Do more jobs with one machine





Get the Most from One Machine

The 325F L is a versatile machine that packs a lot of performance into a small package. You can easily expand that performance by utilizing a variety of attachments offered by Cat Work Tools.

Change Jobs Quickly

Cat quick couplers bring the ability to quickly change attachments and switch from job to job. The Cat CW dedicated Quick Coupler is the secure way to decrease downtime and increase job site flexibility and overall productivity.

Dig, Rip and Load

A wide range of buckets dig everything from basic top soil to extreme, harsh material like ore and high quartzite granite. Rip through rock as an alternative to blasting in quarries. High-capacity buckets load trucks in a minimum number of passes for maximum productivity.

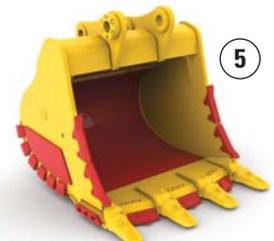
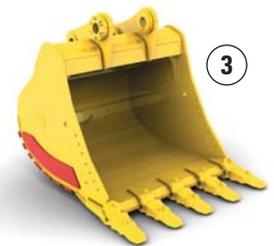
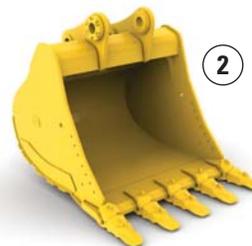
Break, Demolish and Scrap

A hydraulic hammer ably equips your machine for breaking rock in quarries. It will also make taking down bridge pillars and heavily reinforced concrete on road demolition jobs no problem.

Multi-processor and pulverizer attachments make your machine ideal for demolition jobs and processing the resulting debris. Shears with 360° rotation mount to the machine for processing scrap steel and metal.

Set Up Your Machine for Profitability

Your Cat dealer can install hydraulic kits to properly operate all Cat Work Tool attachments, maximizing the machine's uptime and your profit.



1) CW dedicated Quick Coupler 2) General Duty (GD)
3) Heavy Duty (HD) 4) Severe Duty (SD) 5) Extreme Duty (XD)

Cat Connect Technologies

Monitor, manage, and enhance job site operations



Cat Connect makes smart use of technology and services to improve your job site efficiency. Using the data from technology-equipped machines, you'll get more information and insight into your equipment and operations than ever before.

Cat Connect technologies offer improvements in these key areas:



EQUIPMENT
MANAGEMENT

Equipment Management – increase uptime and reduce operating costs.



PRODUCTIVITY

Productivity – monitor production and manage job site efficiency.



SAFETY

Safety – enhance job site awareness to keep your people and equipment safe.

LINK Technologies

LINK technologies, like Product Link™, are deeply integrated into your machine and wirelessly communicates key information, including location, hours, fuel usage, idle time and event codes.

Product Link/VisionLink®

Easy access to Product Link data via the online VisionLink user interface can help you see how your machine or fleet is performing. You can use this information to make timely, fact based decisions that can boost job site efficiency and productivity, and lower costs.



GRADE Technologies

Grade technologies combine digital design data and in-cab guidance to help you reach target grade quickly and accurately, with minimal staking and checking. That means you'll be more productive, complete jobs faster, in fewer passes, using less fuel, at a lower cost.



Cat Grade Control Depth and Slope

The factory integrated Cat Grade Control system delivers 2D bucket tip elevation guidance to the cab to help operators create precise planes and slopes with ease. Real-time bucket tip elevation guidance on the easy-to-read standard cab monitor indicates how much to cut or fill. Fast response sensors deliver immediate feedback, while optional integrated joystick buttons help operators make quick adjustments to maintain consistent, quality grades. Built-in alerts can be set to warn the operator if the linkage or bucket approaches a predefined elevation or depth, such as when working in areas with low ceilings, or digging near water lines. Staking and checking is minimized, which reduces ground crews and enhances job site safety.

Works best in simple 2D applications, such as digging basements or grading steep embankments. Easily upgrade to AccuGrade™ when 3D control is required.

Cat AccuGrade

The dealer-installed AccuGrade system provides 3D guidance for making complex cuts and contours, eliminating the need for staking and checking. A dedicated monitor displays a digital design plan with 3D bucket tip positioning and elevation guidance, indicating precisely where to work and how much to cut or fill.

Plug and play capability on the 325F L simplifies upgrading. Choose from satellite (GNSS) control for large projects with complex designs or total station (UTS) systems in areas with limited reception.



Safe Work Environment

Features to help protect you day in and day out



A Safe, Quiet Cab

The roll-over protective structure (ROPS) cab provides you with a safe working environment when properly seated and belted. It also contributes to your comfort because it's attached to a reinforced frame with special viscous mounts that limit vibration and unnecessary sound. Add in special roof lining and sealing and you have a cab that's as quiet inside as any of today's highway trucks. Optional guarding systems, such as the Falling Object Guard (FOGS), will help protect you and your machine.

Secure Contact Points

Multiple large steps get you into the cab as well as a leg up to the compartments. Extended hand rails allow you to safely climb to the upper deck. Anti-skid plates reduce your slipping hazards in all types of weather conditions, and they can be removed for cleaning.

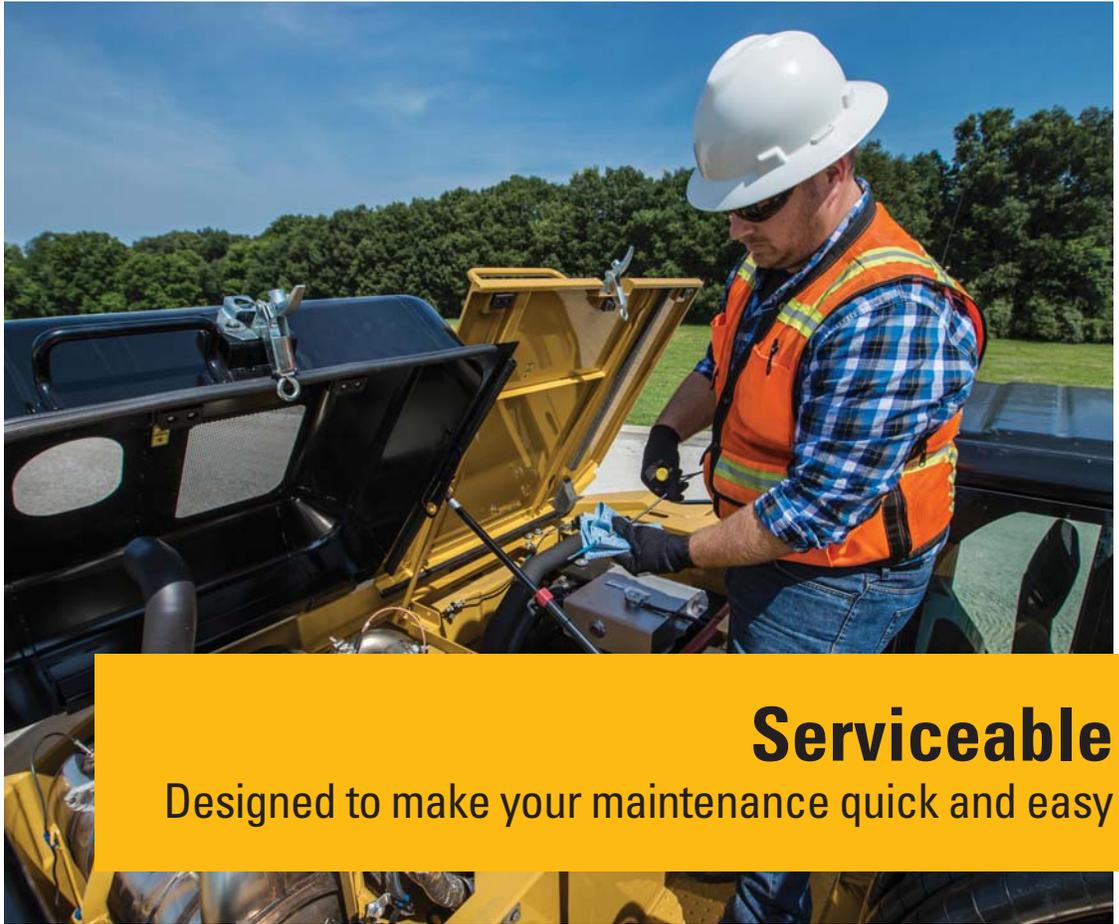
Great Views

Ample glass gives you excellent visibility out front and to the side, and the available rearview and side view camera gives you a clear field of view behind the machine through the cab monitor.

Smart Lighting

Halogen lights provide plenty of illumination, and the cab and boom lights can be programmed to stay on for up to 90 seconds after the engine has been turned off to help you safely exit the machine.





Serviceable

Designed to make your maintenance quick and easy

On-Board Monitoring

The 325F L has a pre-start monitoring system that allows you to check coolant, hydraulic oil, and engine oil levels right inside the cab. The monitor also tells you fluid and filter change intervals to ensure you keep the machine in top-performing condition.

Safe, Convenient Access

You can see the service hour meter inside the cab and reach most routine maintenance items like fluid taps and grease points from the safety and convenience of ground level. Filters are banked together for higher service efficiency. Compartments feature wide service doors and heavy-duty hardware to keep them open – all to make service work simpler and more secure.

Smart Refuel

Smart refuel is an on-board pump system that lets you fill the machine quickly from an external source like a fuel drum. What's smart about it is that it automatically stops when the fuel tank is full or the fuel source is empty, eliminating guess work and premature pump wear.

More Service Benefits

Drain tubes beneath the machine make it easy and simple for you to remove water and sediment during routine maintenance. They also make it easy to change oil without special tools or the risk of spilling. Same goes for an integrated fuel level indicator that pops up to help you reduce the possibility of fuel tank overfilling.

A Priming Solution

Located in the pump compartment, an electric fuel priming pump eliminates the need for you to manually prime after filter changes. It also eliminates the risk of fuel contamination by preventing unfiltered fuel from being backfilled during filter changes.



Sustainability

Generations ahead in every way

Complete Customer Care

Unmatched support makes
the difference

Worldwide Parts Availability

Cat dealers utilize a worldwide parts network to maximize your machines' uptime. Plus they can help you save money with Cat remanufactured components.

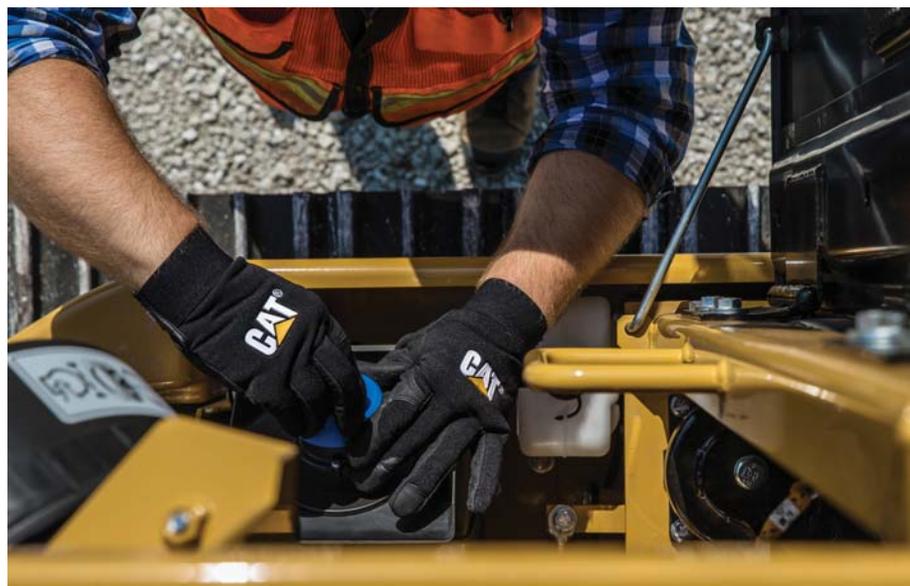
Financial Options Just for You

Consider financing options and day-to-day operating costs. Look at dealer services that can be included in the machine's cost to yield lower owning and operating costs over time.

What's Best for You Today...and Tomorrow

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

- The C4.4 ACERT engine meets Tier 4 Final/Stage IV emission standards.
- The machine burns up to 22% less fuel than the model it replaces, which means less emissions.
- The engine can run on either ultra-low-sulfur diesel (ULSD) fuel with 10 ppm of sulfur or less or biodiesel (up to B20) fuel blended with ULSD.
- A ground-level overfill indicator rises when the tank is full to help the operator avoid spilling.
- The machine is built to be rebuilt with major structures and components capable of being remanufactured to reduce waste and replacement costs.
- The 325F L is an efficient, productive machine that's designed to conserve our natural resources for generations ahead.



325F L Hydraulic Excavator Specifications

Engine

| | | |
|----------------------------|----------------|--------|
| Engine Model | Cat C4.4 ACERT | |
| Power – ISO 9249 (metric) | 120 kW | 161 PS |
| Power – ISO 14396 (metric) | 122 kW | 164 PS |
| Engine rpm | | |
| Operation | 1,800 rpm | |
| Travel | 1,800 rpm | |
| Bore | 105 mm | |
| Stroke | 127 mm | |
| Displacement | 4.4 L | |

- The 325F L meets Tier 4 Final/Stage IV emission standards.
- No engine power derating required below 3000 m altitude.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- Power Rating at 1,800 rpm.

Weights

| | |
|--------------------------|-----------|
| Minimum Operating Weight | 25 610 kg |
| Maximum Operating Weight | 27 230 kg |

Hydraulic System

| | |
|--|--------------------------------|
| Main System – Maximum Flow (Implement) | 429 L/min (214.4 × 2 pumps) |
| Maximum Pressure – Equipment – Normal | 35 000 kPa |
| Maximum Pressure – Equipment – Lift Mode | 38 000 kPa |
| Maximum Pressure – Travel | 35 000 kPa |
| Maximum Pressure – Swing | 25 500 kPa |
| Pilot System Maximum Flow | 18 L/min |
| Pilot System Maximum Pressure | 4100 kPa |
| Boom Cylinder – Bore | 125 mm |
| Boom Cylinder – Stroke | 1403 mm |
| Stick Cylinder – Bore | 140 mm |
| Stick Cylinder – Stroke | 1504 mm |
| Bucket Cylinder – Bore | 120 mm |
| Bucket Cylinder – Stroke | 1104 mm |

Drive

| | |
|----------------------|----------|
| Maximum Gradeability | 35°/70% |
| Maximum Travel Speed | 5.6 km/h |
| Maximum Drawbar Pull | 203 kN |

Swing Mechanism

| | |
|----------------------|----------|
| Swing Speed | 11.2 rpm |
| Maximum Swing Torque | 74 kN·m |

Service Refill Capacities

| | |
|--|-------|
| Fuel Tank Capacity | 328 L |
| Cooling System | 30 L |
| Engine Oil | 25 L |
| Swing Drive (each) | 8 L |
| Final Drive (each) | 8 L |
| Hydraulic System Oil Capacity (including tank) | 280 L |
| Hydraulic Tank Oil | 128 L |
| DEF Tank | 19 L |

Track

| | |
|-------------------------------------|------------------------|
| Track Options | 600 mm, 700 mm, 790 mm |
| Number of Shoes Each Side | 49 |
| Number of Track Rollers Each Side | 7 |
| Number of Carrier Rollers Each Side | 2 |

Sound Performance

| | |
|---|----------|
| Operator Sound Pressure Level – ISO 6396:2008 | 69 dB(A) |
| Exterior Sound Power Level – ISO 6395:2008* | 99 dB(A) |

*As per European Union Directive 2000/14/EC as amended by 2005/88/EC.

- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT98, 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 a noisy environment.

Standards

| | |
|----------|------------------|
| Brakes | ISO 10265:2008 |
| Cab/FOGS | ISO 10262:1998 |
| Cab/ROPS | ISO 12117-2:2008 |
| DEF | ISO 22241 |

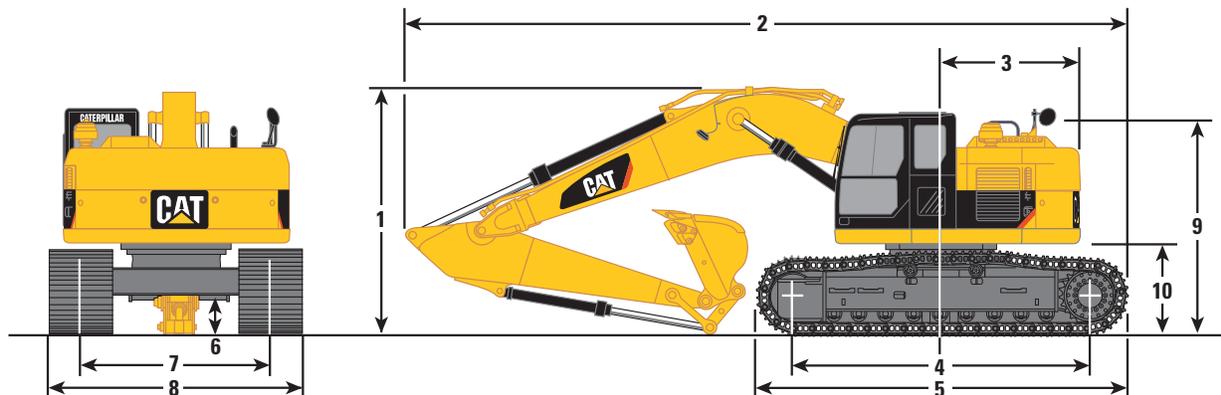
Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1 kg of refrigerant which has a CO₂ equivalent 1.43 metric tonne.

325F L Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate.



| Boom Options | Reach Boom 5.7 m | VA Boom* 2.4 m Stub/3.3 m Fore |
|--------------------------------------|---------------------|-----------------------------------|
| Stick Options | R2.9 | R2.9 |
| 1 Shipping Height | 3180 mm | 3140 mm |
| Height – Top of Cab | 3060 mm | 3060 mm |
| Height – Top of Boom | 3180 mm | 3140 mm |
| 2 Shipping Length | 8920 mm | 9180 mm |
| 3 Tail Swing Radius | 1720 mm | 1720 mm |
| 4 Length to Center of Rollers | 3650 mm | 3650 mm |
| 5 Track Length | 4460 mm | 4460 mm |
| 6 Ground Clearance | 450 mm | 450 mm |
| 7 Track Gauge | 2380 mm | 2380 mm |
| 8 Undercarriage Width | | |
| 600 mm Shoes | 2980 mm | 2980 mm |
| 700 mm Shoes | 3080 mm | 3080 mm |
| 790 mm Shoes | 3170 mm | 3170 mm |
| Upperframe Width | 2980 mm | 2980 mm |
| 9 Handrail Height | 3180 mm | 3180 mm |
| 10 Counterweight Clearance | 960 mm | 960 mm |
| Bucket Type | HD | GD |
| Bucket Tip Radius | 1570 mm | 1560 mm |

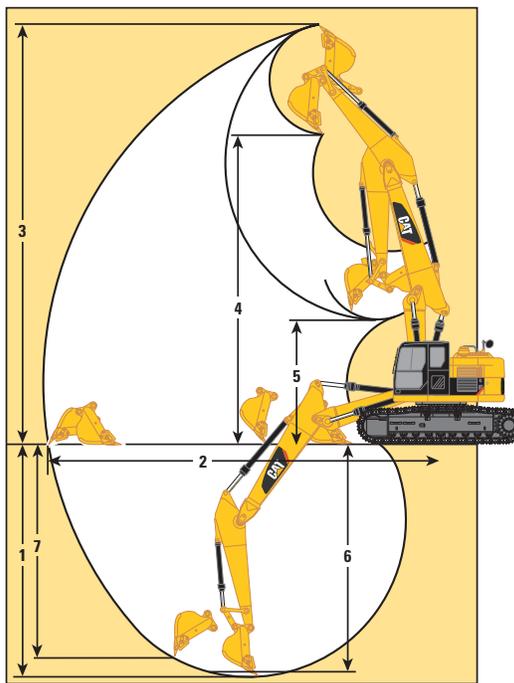
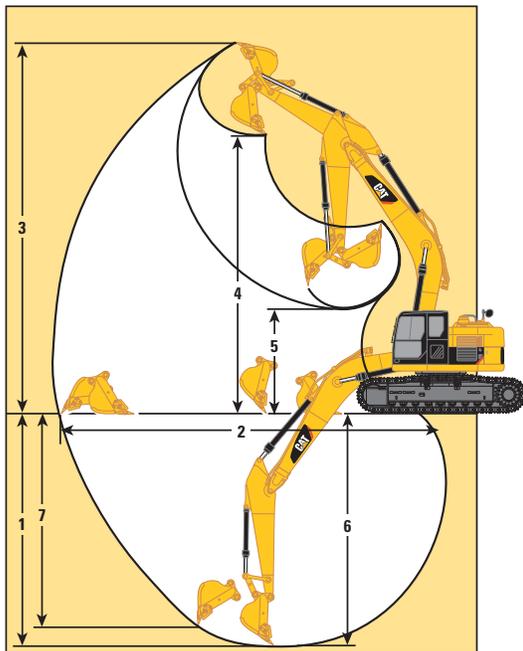
*For Europe only.

Dimensions may vary depending on bucket selection.

325F L Hydraulic Excavator Specifications

Working Ranges

All dimensions are approximate.



Boom Options

Reach Boom 5.7 m

VA Boom* 2.4 m Stub/3.3 m Fore

Stick Options

R2.9

R2.9

1 Maximum Digging Depth

6710 mm

6510 mm

2 Maximum Reach at Ground Line

9790 mm

10 130 mm

3 Maximum Cutting Height

10 960 mm

11 650 mm

4 Maximum Loading Height

7890 mm

8540 mm

5 Minimum Loading Height

2960 mm

3420 mm

6 Maximum Depth Cut for 2440 mm Level Bottom

6540 mm

6420 mm

7 Maximum Vertical Wall Digging Depth

5000 mm

5170 mm

Maximum Height, to Bucket Teeth at Highest Arc

10 960 mm

11 650 mm

Bucket Type

HD

GD

Bucket Tip Radius

1570 mm

1560 mm

Bucket Digging Force (ISO)

150 kN

140 kN

Stick Digging Force (ISO)

106 kN

107 kN

*For Europe only.

Dimensions may vary depending on bucket selection.

325F L Hydraulic Excavator Specifications

Operating Weights and Ground Pressures

| Boom | Stick | Bucket | 790 mm HD Triple Grouser Shoes | | 700 mm Triple Grouser Shoes | | 600 mm HD Triple Grouser Shoes | |
|--------|--------|---------------------|-----------------------------------|------|--------------------------------|------|-----------------------------------|------|
| | | | kg | kPa | kg | kPa | kg | kPa |
| R5.7 m | R2.9 m | 1.19 m ³ | 26 330 | 41.6 | 25 610 | 45.7 | 25 630 | 53.3 |
| VA* | R2.9 m | 1.3 m ³ | — | — | 26 510 | 47.3 | 26 530 | 55.2 |

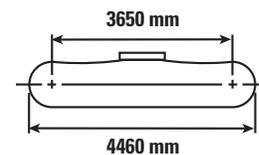
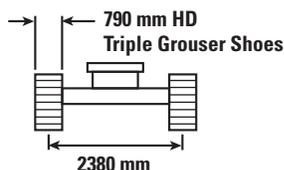
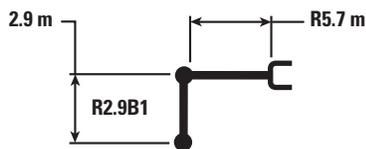
*For Europe only.

Major Component Weights

| | kg |
|--|--------|
| Upper Structure with 6.8 mt Counterweight (including full fuel [310 L] and 75 kg operator) | 13 830 |
| Lower Structure with 790 mm HD Shoes | 8310 |
| Lower Structure with 700 mm TG Shoes | 7590 |
| Lower Structure with 600 mm HD Shoes | 7610 |
| Base Machine with 6.8 mt Counterweight and 790 mm HD Shoes without Front Linkage | 22 140 |
| Base Machine with 6.8 mt Counterweight and 700 mm TG Shoes without Front Linkage | 21 420 |
| Base Machine with 6.8 mt Counterweight and 600 mm HD Shoes without Front Linkage | 21 440 |
| Two Boom Cylinders | 420 |
| Stick Cylinder for Reach | 270 |
| Bucket Cylinder for Reach | 160 |
| 6.8 mt Counterweight | 6800 |
| Reach Boom (includes lines, pins, stick cylinder) | 1740 |
| Reach Boom with CGC (includes lines, pins, stick cylinder) | 1750 |
| VAB (includes lines, pins, stick cylinder) | 2780 |
| R2.9 Stick (includes lines, pins, bucket cylinder and linkage) | 970 |
| R2.9 Stick with CGC (includes lines, pins, bucket cylinder and linkage) | 980 |
| HD 1.19 m ³ Bucket | 1060 |
| GD 1.3 m ³ Bucket | 920 |

325F L Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 6.8 mt – without Bucket – Heavy Lift On



| Reach (m) | Unit | 1.5 m | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | m | | |
|-----------|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| | | Diagram | |
| 9.0 m | kg | | | | | | | | | | | *5050 | *5050 | 4.49 |
| 7.5 m | kg | | | | | *6150 | *6150 | *5350 | *5350 | | | *4200 | *4200 | 6.28 |
| 6.0 m | kg | | | | | *6600 | *6600 | *6350 | 5700 | | | *3950 | *3950 | 7.35 |
| 4.5 m | kg | | | *10 550 | *10 550 | *8100 | *8100 | *7000 | 5550 | 6250 | 3900 | *3900 | 3500 | 8.01 |
| 3.0 m | kg | | | | | *10 200 | 8000 | *7950 | 5300 | 6100 | 3800 | *4000 | 3250 | 8.34 |
| 1.5 m | kg | | | | | *12 000 | 7500 | 8350 | 5050 | 6000 | 3700 | *4250 | 3150 | 8.40 |
| 0 m | kg | | | *7350 | *7350 | *12 750 | 7250 | 8150 | 4900 | 5900 | 3600 | *4750 | 3250 | 8.18 |
| -1.5 m | kg | *7700 | *7700 | *12 300 | *12 300 | *12 550 | 7200 | 8100 | 4800 | 5900 | 3600 | *5600 | 3500 | 7.66 |
| -3.0 m | kg | *12 850 | *12 850 | *15 700 | 14 050 | *11 350 | 7300 | 8150 | 4900 | | | 6900 | 4200 | 6.78 |
| -4.5 m | kg | | | *11 750 | *11 750 | *8550 | 7550 | | | | | *6800 | 5950 | 5.34 |



ISO 10567



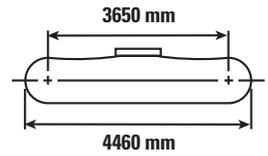
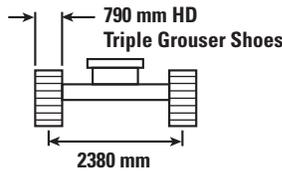
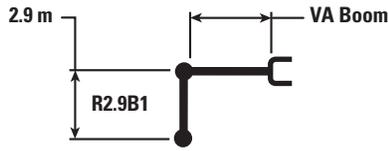
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

Lift capacity stays with ±5% for all available track shoes.

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

325F L Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 6.8 mt – without Bucket – Heavy Lift On (Europe)



| Reach (m) | Unit | 1.5 m | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | m | | |
|-----------|------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|------|
| | | Hydraulic | Tipping | |
| 9.0 | kg | | | | | *4900 | *4900 | | | | | *4950 | *4950 | 5.11 |
| 7.5 | kg | | | | | *7000 | *7000 | *4200 | *4200 | | | *4250 | *4250 | 6.74 |
| 6.0 | kg | | | | | *7400 | *7400 | *5150 | *5150 | *3950 | *3950 | *3950 | *3950 | 7.75 |
| 4.5 | kg | | | *11 250 | *11 250 | *7150 | *7150 | *5100 | *5100 | *4000 | *4000 | *3900 | 3500 | 8.37 |
| 3.0 | kg | *9150 | *9150 | *10 150 | *10 150 | *6950 | *6950 | *4300 | *4300 | *4250 | 4050 | *3950 | 3300 | 8.69 |
| 1.5 | kg | | | *6050 | *6050 | *6350 | *6350 | *4850 | *4850 | *4900 | 3950 | *4150 | 3250 | 8.74 |
| 0 | kg | *6650 | *6650 | *5550 | *5550 | *8350 | 7750 | *5750 | 5200 | *5650 | 3900 | *4550 | 3350 | 8.53 |
| -1.5 | kg | *9150 | *9150 | *9750 | *9750 | *10 250 | 7700 | *7650 | 5200 | *5950 | 3900 | *5050 | 3650 | 8.04 |
| -3.0 | kg | *14 750 | *14 750 | *11 600 | *11 600 | *7900 | 7850 | *6100 | 5250 | | | *4550 | 4300 | 7.14 |
| -4.5 | kg | *22 150 | *22 150 | *11 550 | *11 550 | *7400 | *7400 | | | | | *6700 | *6700 | 4.94 |



ISO 10567



*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.

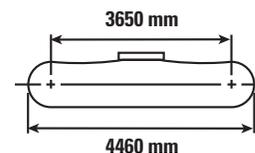
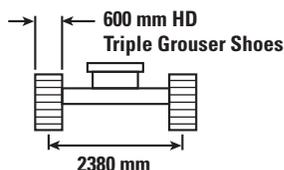
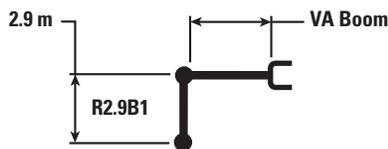
VA cylinder is flexible.

Lift capacity stays with ±5% for all available track shoes.

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

325F L Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 6.8 mt – without Bucket – Heavy Lift On (Europe)



| Reach (m) | Unit | 1.5 m | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | m | | |
|-----------|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| | | VA Boom | |
| 9.0 m | kg | | | | | *4900 | *4900 | | | | | *4950 | *4950 | 5.11 |
| 7.5 m | kg | | | | | *7000 | *7000 | *4200 | *4200 | | | *4250 | *4250 | 6.74 |
| 6.0 m | kg | | | | | *7400 | *7400 | *5150 | *5150 | *3950 | *3950 | *3950 | 3900 | 7.75 |
| 4.5 m | kg | | | *11 250 | *11 250 | *7150 | *7150 | *5100 | *5100 | *4000 | 4000 | *3900 | 3450 | 8.37 |
| 3.0 m | kg | *9150 | *9150 | *10 150 | *10 150 | *6950 | *6950 | *4300 | *4300 | *4250 | 3900 | *3950 | 3200 | 8.69 |
| 1.5 m | kg | | | *6050 | *6050 | *6350 | *6350 | *4850 | *4850 | *4900 | 3850 | *4150 | 3150 | 8.74 |
| 0 m | kg | *6650 | *6650 | *5550 | *5550 | *8350 | 7550 | *5750 | 5050 | *5650 | 3750 | *4550 | 3250 | 8.53 |
| -1.5 m | kg | *9150 | *9150 | *9750 | *9750 | *10250 | 7500 | *7650 | 5050 | *5950 | 3800 | *5050 | 3550 | 8.04 |
| -3.0 m | kg | *14 750 | *14 750 | *11 600 | *11 600 | *7900 | 7650 | *6100 | 5100 | | | *4550 | 4200 | 7.14 |
| -4.5 m | kg | *22 150 | *22 150 | *11 550 | *11 550 | *7400 | *7400 | | | | | *6700 | *6700 | 4.94 |



ISO 10567



*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.

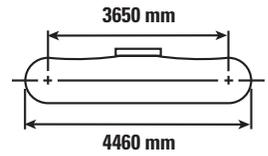
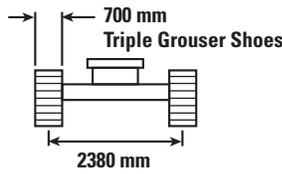
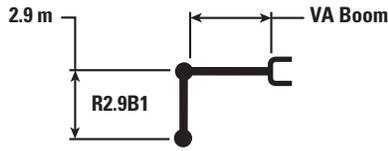
VA cylinder is flexible.

Lift capacity stays with ±5% for all available track shoes.

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

325F L Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 6.8 mt – without Bucket – Heavy Lift On (Europe)



| Reach (m) | Unit | 1.5 m | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | m | | |
|-----------|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| | | VA Boom | |
| 9.0 m | kg | | | | | *4900 | *4900 | | | | | *4950 | *4950 | 5.11 |
| 7.5 m | kg | | | | | *7000 | *7000 | *4200 | *4200 | | | *4250 | *4250 | 6.74 |
| 6.0 m | kg | | | | | *7400 | *7400 | *5150 | *5150 | *3950 | *3950 | *3950 | 3900 | 7.75 |
| 4.5 m | kg | | | *11 250 | *11 250 | *7150 | *7150 | *5100 | *5100 | *4000 | 4000 | *3900 | 3450 | 8.37 |
| 3.0 m | kg | *9150 | *9150 | *10 150 | *10 150 | *6950 | *6950 | *4300 | *4300 | *4250 | 3900 | *3950 | 3200 | 8.69 |
| 1.5 m | kg | | | *6050 | *6050 | *6350 | *6350 | *4850 | *4850 | *4900 | 3800 | *4150 | 3150 | 8.74 |
| 0 m | kg | *6650 | *6650 | *5550 | *5550 | *8350 | 7550 | *5750 | 5050 | *5650 | 3750 | *4550 | 3250 | 8.53 |
| -1.5 m | kg | *9150 | *9150 | *9750 | *9750 | *10 250 | 7500 | *7650 | 5050 | *5950 | 3800 | *5050 | 3550 | 8.04 |
| -3.0 m | kg | *14 750 | *14 750 | *11 600 | *11 600 | *7900 | 7600 | *6100 | 5100 | | | *4550 | 4200 | 7.14 |
| -4.5 m | kg | *22 150 | *22 150 | *11 550 | *11 550 | *7400 | *7400 | | | | | *6700 | *6700 | 4.94 |



ISO 10567



*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.

VA cylinder is flexible.

Lift capacity stays with ±5% for all available track shoes.

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

325F L Hydraulic Excavator Specifications

325F L Bucket Specifications and Compatibility (Europe)

| | | | | | | 325F L | |
|--|---------|-------|----------------|--------|------|-----------------------|---------|
| Tracks | | | | | | 600 mm Triple Grouser | |
| | Linkage | Width | Capacity | Weight | Fill | Reach Boom | VA Boom |
| | | mm | m ³ | kg | % | R2.9 | R2.9 |
| Without Quick Coupler | | | | | | | |
| General Duty (GD) | B | 600 | 0.46 | 549 | 100 | ● | ● |
| | B | 750 | 0.64 | 620 | 100 | ● | ● |
| | B | 900 | 0.81 | 666 | 100 | ● | ● |
| | B | 1200 | 1.19 | 800 | 100 | ⊙ | ⊖ |
| | B | 1300 | 1.30 | 832 | 100 | ⊙ | ⊖ |
| General Duty (GD) | B | 600 | 0.46 | 546 | 100 | ● | ● |
| | B | 750 | 0.64 | 617 | 100 | ● | ● |
| | B | 1000 | 0.93 | 710 | 100 | ● | ● |
| | B | 1200 | 1.19 | 799 | 100 | ⊙ | ⊖ |
| Heavy Duty (HD) | B | 1050 | 1.00 | 879 | 100 | ● | ⊙ |
| | B | 1200 | 1.19 | 906 | 100 | ⊙ | ⊖ |
| | B | 1200 | 1.19 | 917 | 100 | ⊙ | ⊖ |
| | B | 1200 | 1.19 | 970 | 100 | ⊙ | ⊖ |
| | B | 1300 | 1.30 | 960 | 100 | ⊖ | ○ |
| Severe Duty (SD) | B | 1050 | 1.00 | 962 | 90 | ● | ⊙ |
| Maximum load pin-on (payload + bucket) | | | | | kg | 3124 | 2693 |
| With Quick Coupler (CW40, CW40s) | | | | | | | |
| General Duty (GD) | B | 600 | 0.46 | 502 | 100 | ● | ● |
| | B | 750 | 0.64 | 587 | 100 | ● | ● |
| | B | 900 | 0.81 | 653 | 100 | ● | ● |
| | B | 1200 | 1.19 | 767 | 100 | ⊙ | ○ |
| | B | 1300 | 1.30 | 798 | 100 | ⊖ | ○ |
| Heavy Duty (HD) | B | 600 | 0.46 | 584 | 100 | ● | ● |
| | B | 1200 | 1.19 | 873 | 100 | ⊖ | ○ |
| | B | 1300 | 1.30 | 927 | 100 | ⊖ | ○ |
| Maximum load with coupler (payload + bucket) | | | | | kg | 2872 | 2441 |

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

Maximum Material Density:

- 2100 kg/m³
- ⊙ 1800 kg/m³
- ⊖ 1500 kg/m³
- 1200 kg/m³

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

325F L Hydraulic Excavator Specifications

325F L Bucket Specifications and Compatibility (Hong Kong and Taiwan)

| | | | | | | 325F L |
|--|---------|-------|----------------|--------|------|-----------------------|
| Tracks | | | | | | 600 mm Triple Grouser |
| | Linkage | Width | Capacity | Weight | Fill | Reach Boom |
| | | mm | m ³ | kg | % | R2.9 |
| Without Quick Coupler | | | | | | |
| General Duty (GD) | B | 600 | 0.46 | 546 | 100 | ● |
| | B | 1050 | 1.00 | 731 | 100 | ● |
| | B | 1200 | 1.19 | 799 | 100 | ⊙ |
| Heavy Duty (HD) | B | 1050 | 1.00 | 879 | 100 | ● |
| | B | 1200 | 1.19 | 970 | 100 | ⊙ |
| Severe Duty (SD) | B | 1050 | 1.00 | 962 | 90 | ● |
| Maximum load pin-on (payload + bucket) | | | | | kg | 3124 |

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

Maximum Material Density:

- 2100 kg/m³
- ⊙ 1800 kg/m³

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

325F L Hydraulic Excavator Specifications

325F L Work Tool Offering Guide

| Boom Type | | Reach Boom | Variable Boom* |
|--------------------------------|--|--|---|
| Stick Type | | Reach | Reach |
| Stick Length | | 2.9 m | 2.9 m |
| Hydraulic Hammer | | H120E s H130E s | H120E s H130E s |
| Multi-Processor | | MP318 CC Jaw MP318 D Jaw MP318 P Jaw MP318 S Jaw MP318 U Jaw | MP318 CC Jaw MP318 D Jaw MP318 P Jaw MP318 S Jaw MP318 U Jaw |
| Pulverizer | | P215 | P215 |
| Crusher | | P315 | P315 |
| Demolition and Sorting Grapple | | G315B-D/R G315B-WH G315B-D/R fixed CAN G320B-D/R | G315B-D/R G315B-WH G315B-D/R fixed CAN |
| Scrap and Demolition Shear | | S320B S325B S340B | S320B S325B |
| Compactor (Vibratory Plate) | | CVP110 | CVP110 |
| Orange Peel Grapple | | | |
| Rippers | | | |
| Dedicated Quick Coupler | CW-40 CW-40s CWAC-40 (autoconnect) | | These work tools are available for the 325F L. Consult your Cat dealer for proper match. |

*For Europe only.

Matching as shown above is for indication only, it might change according to your boom/stick/linkage configuration. Consult your Cat dealer to determine what is offered in your area, and, for proper work tool match.

325F L Standard Equipment

Standard Equipment

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

ENGINE

- C4.4 ACERT, twin turbo diesel engine
- Tier 4 Final/Stage IV emission standards
- 3000 m altitude capability with no derate
- One touch low idle with automatic engine shutdown
- Electric refueling pump with auto shut off
- Water separator in fuel line including water level sensor and indicator
- Radial seal air filter
- Air precleaner
- Side-by-side cooling system
- Standard, economy and high power modes
- Primary filter with water separator and water separator indicator switch
- Two-speed travel
- Fuel differential indicator switch in fuel line
- 52° C high ambient cooling capability, with derate from 48° C

HYDRAULIC SYSTEM

- Electric boom regeneration circuit
- Stick regeneration circuit
- Reverse swing dampening valve
- Automatic swing parking brake
- High-performance hydraulic return filter
- Capability of installing additional auxiliary circuits
- Up to B20 bio oil capable
- Heavy lift mode
- Sampling ports for Scheduled Oil Sampling (S-O-SSM)

SAFETY

- Integrated rearview and RH side view camera (ISO 5006)
- RH hand rail (ISO 2867) and RH side mirrors
- Anti-skid plates on service platform
- Neutral lever (lock out) for all controls
- Engine shut off switch in cab, ground level accessible
- Signaling/warning horn
- Jump start
- Safety hammer for cab evacuation
- Side view camera

CAB

- ROPS certified cab
- Mirrors
- Pressurized operator station with positive filtration
- Laminated glass front upper window and tempered other windows
- Sliding upper door window (left-hand cab door)
- Removable lower windshield with in cab storage bracket
- Openable skylight as emergency exit
- Interior:
 - Glass-breaking safety hammer
 - Coat hook
 - Beverage holder
 - Literature holder
 - Interior lighting
 - AM/FM radio mounting (DIN size)
 - Two 12V stereo speakers
 - Storage shelf suitable for lunch or toolbox
 - Power supply with 12V, two power outlets (10 amp)
 - Thumb wheel modulation joystick for use with combined auxiliary control
 - Sun screen
 - Air conditioner, heater and defroster with climate control
- Seat:
 - Seat belt, 51 mm
 - Adjustable armrest
 - Height adjustable joystick consoles
 - Neutral lever (lock out) for all controls
 - Travel control pedals with removable hand levers
 - Capability of installing two additional pedals
 - Two speed travel
 - Floor mat, washable
 - Adjustable high-back, heated seat with air suspension

Monitor:

- Clock
 - Video ready
 - Color LCD display with warning, filter/fluid change, and working hour information
 - Language display (full graphic and full color display)
 - Machine condition, error code and tool mode setting information
 - Start-up level check for engine oil, engine coolant and hydraulic oil
 - Warning, filter/fluid change and working hour information
 - Fuel consumption meter
- ### Windshield:
- 70-30 split, sliding, removable lower windshield with in cab storage bracket

ELECTRICAL

- 85 amp alternator
- Circuit breaker
- Capability to electrically connect a beacon
- Standard battery, maintenance free

UNDERCARRIAGE/UPPERFRAME

- Grease Lubricated Track resin seal
- Heavy duty track rollers
- Swivel guard
- Heavy duty bottom guards

LIGHTS

- Two cab lights, two boom lights, one frame light with 90 second time delay (halogen)

CAT CONNECT TECHNOLOGIES

- Product Link
- Integrated rearview and RH side view camera (ISO 5006)

COUNTERWEIGHT

- 6.8 mt

Optional Equipment

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

HYDRAULIC SYSTEM

- HP hydraulic lines for boom and stick
- MP hydraulic lines for boom and stick
- QC hydraulic lines for boom and stick
- CW dedicated QC control

TRACKS

- 600 mm HD triple grouser shoes
- 700 mm triple grouser shoes
- 790 mm HD triple grouser shoes

FRONT LINKAGE

- 5.7 m Reach boom (with BLCV/SLCV/SmartBoom™)
 - R2.9 stick (with or without Cat Grade Control)
- VA boom (with BLCV/SLCV/Smart Boom*)
 - R2.9 stick
- Bucket linkage
 - B1 linkage with lifting eye
- CW dedicated quick coupler

GUARDS

- Track guiding guards:
 - Segmented, two pieces
 - Full length
- FOGS capability
- Mesh guard capability
- Vandalism guard capability

ELECTRICAL

- Cold weather starting package, –32° C

INTEGRATED TECHNOLOGIES

- Cat Grade Control Depth and Slope

CAB

- Straight travel pedal

DEALER INSTALLED KITS AND ATTACHMENTS

- Electrical cold weather field installation retrofit kit package
- Cab
 - Seat belt, retractable (76 mm width)
 - Rain protector for front windshield
- Guards
 - FOGS retrofit kit package
 - Mesh for front guard retrofit package
 - Mesh guard, lower half front
 - Vandalism guard with holder
- Safety and security
 - Security system (MSS)
 - Travel alarm – factory installed
- Fuel System
- Electric refueling pump with auto shut off (35 L/min)

*For Europe only.

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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