# **330F**Hydraulic Excavator





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 Engine Model
 Cat® C7.1 ACERT™

 Power − ISO 14396 (metric)
 178 kW (242 PS)

 Power − ISO 9249 (metric)
 175 kW (238 PS)

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Maximum Travel Speed	5.1 km/h
Maximum Drawbar Pull	247 kN
Weight	
Minimum Operating Weight	28 293 kg
Maximum Operating Weight	29 753 kg

## The 330F is built to keep your production numbers up and your owning and operating costs down.

The machine's C7.1 ACERT engine not only meets EU Stage IV emission standards, but it does so with all the power, fuel efficiency, and reliability you need to be successful.

Where the real power comes in is through Caterpillar's unparalleled systems integration and state-of-the-art hydraulic system. You can literally move tons of material all day long with tremendous speed and precision.

When you add a quiet operator environment that keeps you comfortable and productive, easy-to- reach service points that make routine maintenance simple and fast, and multiple Cat work tools that help you take on a variety of tasks with just one machine, you simply won't find a better, more efficient 30-ton excavator.

If productivity, comfort, versatility, and fuel efficiency are what you want, you need a 330F in your fleet.

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#### A Safe, 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/cooling 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.







#### **Easy to Navigate 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 camera to help you see what's going on around you so you can stay safely focused on the job at hand.



### **Fuel Efficient**

### Powerful and fuel efficient to meet your expectations

#### **Fuel Savers That Add Up**

The 330F consumes less fuel than the previous series model 329E, and the automatic engine speed control contributes by lowering rpm when the machine doesn't need it for work.

Automatic engine idle shutdown turns the engine off when it's been idling for more than a specified amount of time that you can set through the monitor. You also have a choice of two power modes — standard or eco modes. Simply change between modes through the console switch panel to meet the work needs in front of you. Collectively, all of these benefits add up to reduced fuel consumption, reduced exhaust and sound emissions, reduced repair and maintenance costs, and increased engine life for you.



#### **Proven Technology**

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

Following are the results you can expect:

- Improved Fluid Efficiency of up to 5% over Stage IIIB products, including Diesel Exhaust Fluid (DEF) consumption.
- 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.

#### **Biodiesel Not a Problem**

The C7.1 ACERT engine can run on up to B20 biodiesel fuel that meets ASTM 6751 standards – all to give you more potential fuel-saving flexibility.

#### A Cool Design for Any Temperature

The 330F features a side-by-side cooling system that allows you to put the machine to work in extremely hot and cold conditions. The system is completely separated from the engine compartment to reduce noise and heat. Plus it features easy-to-clean cores and an efficient variable-speed fan.

#### **Diesel Exhaust Fluid (DEF)**

Cat engines equipped with an SCR system inject DEF into the exhaust to reduce  $NO_x$  emissions. DEF is a precisely mixed solution of 32.5% high purity chemical grade urea and 67.5% de-ionized water. DEF used in Cat SCR systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241-1.



### **Durable Structures**

### Designed to work in your tough applications

#### **Robust Frame**

The 330F 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 is 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 to increase the machine's digging force, which leads to more productivity for you.

#### **Stable Undercarriages**

The 330F Long (L) and 330F Long Narrow (LN) undercarriages contribute significantly to their outstanding stability and durability. Track shoes, links, rollers, idlers, and final drives are all built with long-lasting, high-tensile-strength steel for long-term durability.

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.

#### **Great Weight**

The 5.8 mt counterweight is built with thick steel plates and reinforced fabrications to make it less susceptible to damage, designed with curved surfaces that match the machine's sleek, smooth appearance along with integrated housings to help protect the standard rearview camera.

### **Durable Linkages**

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



#### **Built to Last**

The 330F is offered with Reach boom and sticks. Each is built with internal baffle plates and stress-relieved for added 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, boom cylinder, and stick foot to improve durability. Also, the boom nose pin retention method is a captured flag design for enhanced durability.

#### **Linkage for Any Job**

The Reach boom 6.15 m and sticks (3.2 m, 2.65 m) offer you excellent allaround versatility for general excavation work, including excavating basements, trenching for utility lines, and working in sewer applications.

Sticks are matched to the boom. Longer sticks are better when you need to dig deep or load trucks. Shorter sticks provide greater breakout force.

#### Pins

All front linkage pins have thick chrome plating, giving them high wear resistance. Each pin diameter is made to distribute the shear and bending loads associated with the stick and to help ensure long pin, boom and stick life.

Talk to your Cat dealer to pick the best front linkage options for your applications.



### **Reliable and Productive**

Power to move your material with speed and precision

#### **Powerful, Efficient Design**

When it comes to moving heavy material quickly and efficiently, you need hydraulic horsepower – the type of ground-breaking power the 330F can deliver. Major hydraulic components like pumps and valves are located close together so shorter tubes and lines can be used. This design leads to less friction loss, reduced pressure drops, and more power to the ground for the work you need to get done.

The heavy lift mode increases machine system pressure to improve lift – a nice benefit in certain situations. Heavy lift mode also reduces engine speed and pump flow in order to improve controllability.

#### **Control Like No Other**

Controllability is one of the main attributes of Cat excavators, and one of the key contributors to this is the main control valve. The valve opens slowly when your range of joystick lever movement is small and opens rapidly when movement is high.

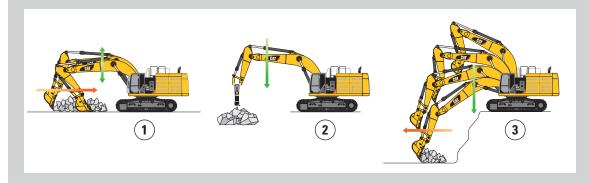
It puts flow where you need it when you need it, which leads to smoother operation, greater efficiency, and lower fuel consumption.

#### **Auxiliary Hydraulics for Added Versatility**

Auxiliary hydraulics give you greater tool versatility so you can take on more work with just one machine, and there are several options from which you can choose. A quick coupler circuit, for example, will allow you to switch from one tool to another in a matter of minutes.

#### SmartBoom™

#### **Reduces Stress and Vibrations Transmitted to the Machine**



#### **Rock Scraping (1)**

Scraping rock and finishing work is easy and fast. SmartBoom simplifies the task and allows the operator to fully concentrate on the stick and bucket while the boom freely goes up and down without using pump flow.

#### Hammer Work (2)

It has never been this productive and operator-friendly.

The front parts automatically follow the hammer while penetrating the rock. Blank shots or excessive force on the hammer are avoided, resulting in longer life for the hammer and machine.

Similar advantages are applicable when using vibratory plates.

#### Truck Loading (3)

Loading trucks from a bench is more productive and fuel efficient as the return cycle is reduced while the boom down function does not require pump flow.

### Boom and Stick Oil Re-circulation for Added Efficiency

The 330F L regenerates the flow of oil from the head end of the boom and stick cylinders to the rod end of the boom and stick cylinders during the work cycle to save energy and improve fuel efficiency.

It's optimized for any dial speed setting you select, which results in less pressure loss for higher controllability, more productivity, and lower operating costs for you.





#### **Ground-Level Access**

You can reach most routine maintenance items like fluid taps and grease points from the safety and convenience of ground level. Not only do compartments feature wide service doors designed to help prevent debris entry, but they also securely latch in place to help make your service work simpler.

### **Serviceable**

Designed to make your maintenance quick and easy



#### A Cool Design

The high-ambient cooling system features a fuel-saving variable-speed fan and a side-by-side-mounted radiator and oil and air coolers for easy cleaning. Wider clearance between the two make blowing off debris easy for you, which can help improve your machine's reliability and performance.

#### A Fresh Idea

When you select ventilation inside the cab, outside air enters through the fresh air filter. The filter is conveniently located on the side of the cab to make it easy to reach and replace, and it is protected by a lockable door that can be opened with the engine key.

#### Quick and Convenient Fluids Service

The fuel tank's drain cock makes it easy and simple for you to remove water and sediment during routine maintenance. Plus an integrated fuel level indicator pops up to help you reduce the possibility of fuel tank overfilling.







#### A Safe, Quiet Cab

The ROPS-certified cab provides you with a safe working environment. 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 Falling Object Guards (FOGS) further protect you from debris coming to the cab.

#### **Great Views**

Ample glass coupled with the standard parallel wiper system, gives you excellent visibility out front and to the side, and the standard rearview 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. Optional High Intensity Discharge (HID) lights are available for enhanced night-time visibility.

#### **Secure Contact Points**

Multiple large steps get you into the cab as well as a leg up to the compartments. Extended hand and guard 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.



#### **Get the Most from One Machine**

The 330F 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 CW Dedicated or the Cat Pin Grabber couplers are 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.



5) Severe Duty (SD) 6) Extreme Duty (XD)

### **Integrated 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** – increase uptime and reduce operating costs.



**Productivity** – monitor production and manage job site efficiency.



**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 330F simplifies upgrading. Choose from satellite (GNSS) control for large projects with complex designs or total station (UTS) systems in areas with limited reception.



### **Sustainable**

# Generations ahead in every way

- The C7.1 ACERT engine meets Stage IV emission standards.
- The 330F performs the same amount of work while burning less fuel than the previous E Series model, which means more efficiency, less resources consumed, and fewer emissions.
- The 330F has the flexibility of running 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 QuickEvac<sup>™</sup> option ensures fast, easy, and secure changing of engine and hydraulic oil.
- The 330F is built to be rebuilt with major structures and components capable of being remanufactured to reduce waste and replacement costs.
- An engine oil filter eliminates the need for painted metal cans and aluminum top plates.
   The cartridge- style spin-on housing enables the internal filter to be separated and replaced; the used internal element can be incinerated to help reduce waste.
- The 330F is an efficient, productive machine that's designed to conserve our natural resources for generations ahead.

### **Complete Customer Care**

Unmatched support makes the difference

#### **Worldwide Parts Availability**

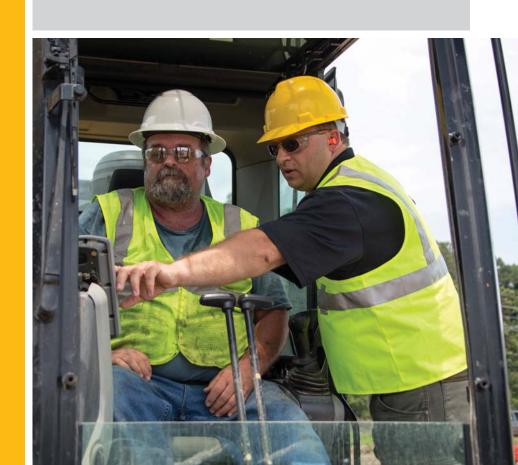
Cat dealers utilize a worldwide parts network to maximize your machines' uptime. Plus they can help you save money with Cat remanufactured components.

#### **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.



Engine	
Engine Model	Cat C7.1 ACER7
Power – SAE J1995 (metric)	178 kW (242 PS)
Power – ISO 14396 (metric)	178 kW (242 PS)
Power – ISO 9249 (metric)	175 kW (238 PS)
Bore	105 mm
Stroke	135 mm
Displacement	7.01 L
Weights	
Minimum Weight	28 293 kg
Maximum Weight	29 753 kg
Hydraulic System	
Maximum Flow	
Main System	2 × 247 L/min
	(494 L/min)
Swing System	240 L/min
Pilot System	30 L/min
Maximum Pressure	
Equipment – Normal	35 000 kPa
Equipment – Heavy Lift	38 000 kPa
Travel	37 000 kPa
Swing	27 400 kPa
Pilot System	4100 kPa
Boom Cylinder	
Bore	140 mm
Stroke	1407 mm
Stick Cylinder	
Bore	150 mm
Stroke	1646 mm
CB2 Bucket Cylinder	
Bore	150 mm
Stroke	1151 mm
Drive	
Maximum Gradeability	30°/70%
Maximum Drawbar Pull	247 kN
Maximum Travel Speed	5.1 km/h

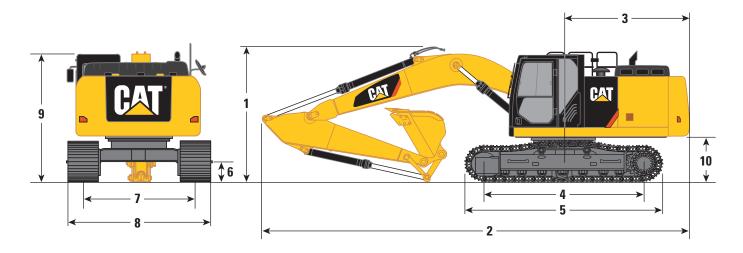
Swing Mechanism	
Swing Speed	9.6 rpm
Swing Torque	82.2 kN·m
Service Refill Capacities	
Fuel Tank Capacity	520 L
Cooling System	30 L
Engine Oil (with filter)	24 L
Swing Drive (each)	9 L
Final Drive (each)	6 L
Hydraulic System Oil Capacity (including tank)	310 L
Hydraulic Tank Oil	175 L
DEF Tank	41 L
Track	
Number of Shoes (each side)	50
Number of Track Rollers (each side)	9
Number of Carrier Rollers (each side)	2
Track Options	600 mm 700 mm 800 mm 900 mm
Sound Performance	
Operator Sound Pressure Level – ISO 6396:2008	72 dB(A)
Exterior Sound Power Level – ISO 6395:2008	105 dB(A)*
<ul> <li>Hearing protection may be needed who operator station and cab (when not prowindows open) for extended periods on</li> <li>When properly installed and maintaine by Caterpillar, when tested with doors according to ANSI/SAE J1166 OCT98</li> </ul>	operly maintained or doors, r in a noisy environment. ed, the cab offered and windows closed 8, meets OSHA and

- MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- \*as per European Union Directive 2000/14/EC as amended by 2005/88/EC

Standards	
Brakes	ISO 10265 2008
Cab/FOGS	ISO 10262 1998
ROPS Cab	ISO 12117-2
DEF	Must meet ISO 22241

#### **Dimensions**

All dimensions are approximate.



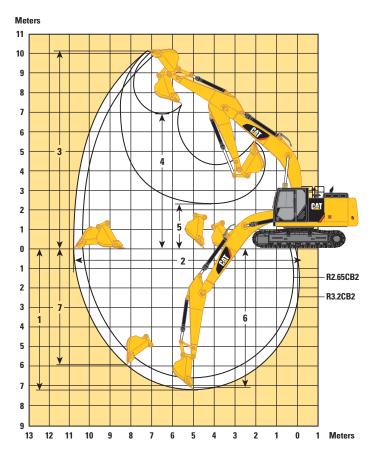
	Reach 6.15	
Stick Size	R3.2CB2	R2.65CB2
1 Shipping Height*	3370 mm	3450 mm
2 Shipping Length	10 390 mm	10 400 mm
3 Tail Swing Radius	3090 mm	3090 mm
4 Length to Center of Rollers		
Long Undercarriage	3990 mm	3990 mm
Long Narrow Undercarriage	3990 mm	3990 mm
5 Track Length		
Long Undercarriage	4860 mm	4860 mm
Long Narrow Undercarriage	4860 mm	4860 mm
6 Ground Clearance**	490 mm	490 mm
7 Track Gauge		
Long Undercarriage	2590 mm	2590 mm
Long Narrow Undercarriage	2390 mm	2390 mm
8 Transport Width		
Long Undercarriage – 600 mm Shoes	3190 mm	3190 mm
Long Undercarriage – 700 mm Shoes	3290 mm	3290 mm
Long Undercarriage – 800 mm Shoes	3390 mm	3390 mm
Long Undercarriage – 900 mm Shoes	3490 mm	3490 mm
Long Narrow Undercarriage – 600 mm Shoes	2990 mm	2990 mm
Long Narrow Undercarriage – 700 mm Shoes	3090 mm	3090 mm
Long Narrow Undercarriage – 800 mm Shoes	3190 mm	3190 mm
<b>9</b> Cab Height*	3040 mm	3040 mm
<b>10</b> Counterweight Clearance**	1110 mm	1110 mm
Bucket Type	HD	HD
Bucket Capacity	1.51 m³	1.51 m³
Bucket Tip Radius	1650 mm	1650 mm

<sup>\*</sup>Including shoe lug height.

<sup>\*\*</sup>Without shoe lug height.

#### **Working Ranges**

All dimensions are approximate.



	Reach Boom 6.15 m			
Stick Size	R3.2CB2	R2.65CB2		
1 Maximum Digging Depth	7250 mm	6700 mm		
2 Maximum Reach at Ground Level	10 680 mm	10 200 mm		
3 Maximum Cutting Height	10 010 mm	9900 mm		
4 Maximum Loading Height	6950 mm	6800 mm		
5 Minimum Loading Height	2290 mm	2840 mm		
6 Maximum Depth Cut for 2440 mm Level Bottom	7090 mm	6520 mm		
7 Maximum Vertical Wall Digging Depth	5980 mm	5680 mm		
Bucket Type	HD	GD		
Bucket Capacity	1.51 m³	1.71 m³		
Bucket Tip Radius	1650 mm	1650 mm		
Stick Cylinder Force (ISO)	126 kN	145 kN		
Bucket Cylinder Force (ISO)	179 kN	180 kN		

#### **Operating Weights and Ground Pressures**

**Major Component Weights** 

Bucket: CB1350HD 1.54 m<sup>3</sup>

Bucket: CB1500GD 1.71 m<sup>3</sup>

Pin Grabber Type CB without Pin Pin Grabber Type CB with Pin

Quick Couplers

				n Shoes Grouser)		n Shoes ouser HD)		n Shoes Grouser)		n Shoes rouser HD)		n Shoes Grouser)
			Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure
Boom	Stick	Bucket	kg	kPa	kg	kPa	kg	kPa	kg	kPa	kg	kPa
Long Unde	rcarriage											
R6.15 m	R3.2CB2	CB1350 HD	28 405	54.0	28 948	55.0	28 740	46.8	29 368	41.9	29 753	37.7
R6.15 m	R2.65CB2	CB1350 HD	28 305	53.8	28 848	54.8	28 640	46.7	29 268	41.7	29 653	37.6
Long Narr	ow Undercarr	iage										
R6.15 m	R3.2CB2	CB1350 HD	28 393	54.0	28 936	55.0						
R6.15 m	R2.65CB2	CB1350 HD	28 293	53.8	28 836	54.8	_	_	_	_	_	

Base Machine (includes boom cylinders, pins and fluids)	8656 kg
Full Fuel Tank	415 kg
Counterweight	5800 kg
Boom (includes lines, pins and stick cylinder)	
Reach Boom – 6.15 m	1950 kg
Stick (includes lines, stick pins, bucket pins and bucket cylinder)	
R3.2CB2	800 kg
R2.65CB2	700 kg
Undercarriage	
Long Undercarriage	5995 kg
Long Narrow Undercarriage	5983 kg
Track Shoes	
600 mm Triple Grouser Shoes	3583 kg
600 mm Triple Grouser HD Shoes	4126 kg
700 mm Triple Grouser Shoes	3918 kg
800 mm Triple Grouser Shoes	4546 kg
900 mm Triple Grouser Shoes	4931 kg

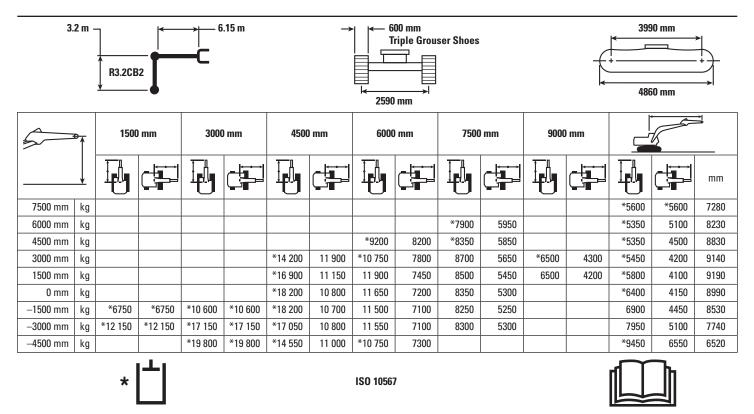
1131 kg

1041 kg

502 kg

532 kg

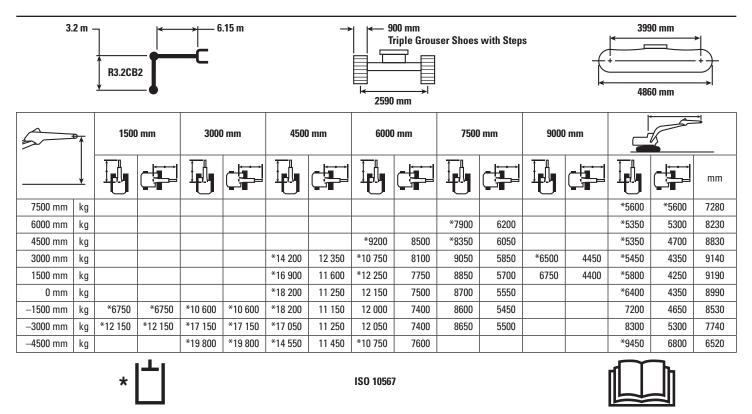
#### 330F L Reach Boom Lift Capacities – Counterweight: 5.8 mt – without Bucket – Heavy Lift On



<sup>\*</sup>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.

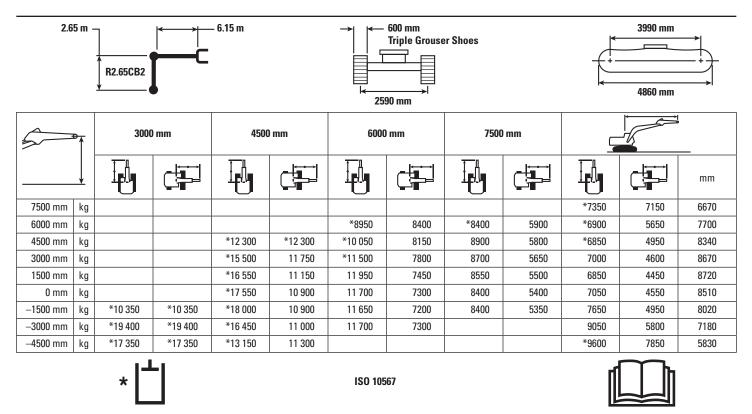
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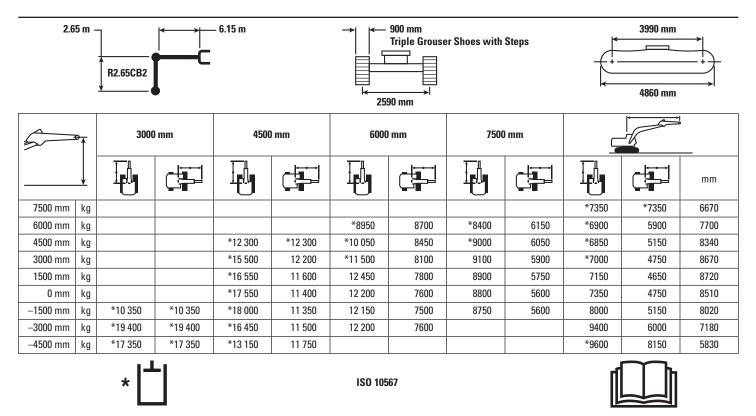
#### 330F L Reach Boom Lift Capacities - Counterweight: 5.8 mt - without Bucket - Heavy Lift On



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

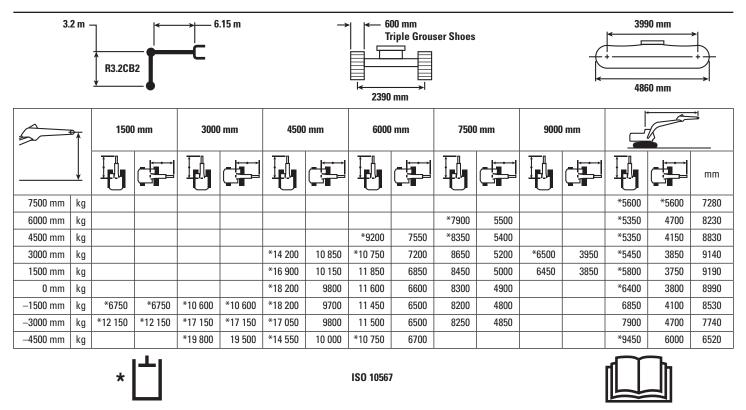
#### 330F L Reach Boom Lift Capacities – Counterweight: 5.8 mt – without Bucket – Heavy Lift On



<sup>\*</sup>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.

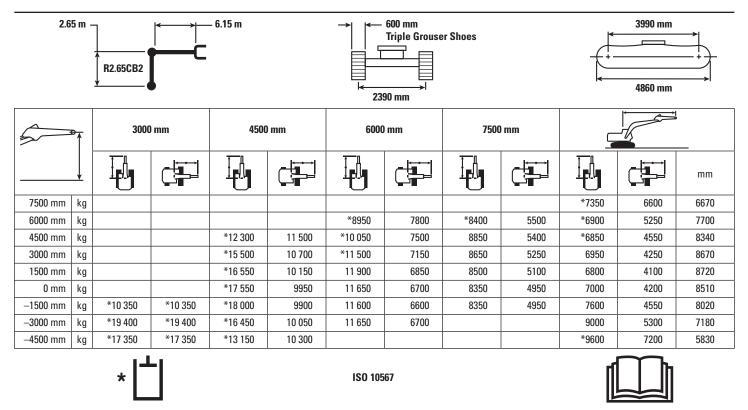
#### 330F LN Reach Boom Lift Capacities - Counterweight: 5.8 mt - without Bucket - Heavy Lift On



<sup>\*</sup>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.

#### 330F LN Reach Boom Lift Capacities – Counterweight: 5.8 mt – without Bucket – Heavy Lift On



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

#### **Bucket Specifications and Compatibility**

						33	OF L	330	F LN
		Width	Capacity	Weight	Fill	Reacl	n Boom	Reach	Boom
	Linkage	mm	m³	kg	%	R3.2	R2.65	R3.2	R2.65
Without Quick Coupler									
General Duty (GD)	СВ	750	0.71	730	100	•	•	•	•
	СВ	1050	1.12	864	100	•	•	•	•
	СВ	1200	1.33	927	100	•	•	•	•
	СВ	1350	1.54	1009	100	•	•	•	•
	СВ	1500	1.76	1074	100	х	•	х	•
Heavy Duty (HD)	СВ	1350	1.54	1134	100	•	•	•	•
	СВ	1500	1.76	1229	100	х	•	х	•
Severe Duty (SD)	СВ	1350	1.56	1245	90	•	•	•	•
		Maximum Id	oad pin-on (pay	load + bucket)	kg	4485	4955	3970	4400
With Center-Lock™ Coupl	er			'		•			
General Duty (GD)	СВ	750	0.71	730	100	•	•	•	•
	СВ	1050	1.12	864	100	•	•	•	•
	СВ	1200	1.33	927	100	•	•	•	•
	СВ	1350	1.54	1009	100	•	•	$\Theta$	•
	СВ	1500	1.76	1074	100	$\Theta$	•	0	$\Theta$
Heavy Duty (HD)	СВ	1350	1.54	1134	100	•	•	$\Theta$	•
	СВ	1500	1.76	1229	100	$\Theta$	•	0	$\Theta$
Severe Duty (SD)	СВ	1350	1.56	1245	90	•	•	$\Theta$	•
	Ma	aximum load wi	th coupler (pay	load + bucket)	kg	3980	4450	3465	3895

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 over the side 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/m<sup>3</sup>
- x Not recommended

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.

#### **Bucket Specifications and Compatibility**

						330	)F L	330	F LN
		Width	Capacity	Weight	Fill	Reach Boom		Reach Boom	
	Linkage	mm	m³	kg	%	R3.2	R2.65	R3.2	R2.65
With Quick Coupler (CW45, CW4	15s)								
General Duty (GD)	СВ	750	0.7	693	100	•	•	•	•
	СВ	1350	1.5	1008	100	•	•	$\Theta$	•
	СВ	1500	1.76	1074	100	$\Theta$	•	0	$\Theta$
	СВ	1650	1.97	1157	100	$\Theta$	$\Theta$	0	0
Heavy Duty (HD)	СВ	1200	1.33	1061	100	•	•	•	•
	СВ	1350	1.54	1134	100	•	•	$\Theta$	•
	СВ	1500	1.76	1229	100	$\Theta$	•	0	$\Theta$
	СВ	1650	1.97	1302	100	0	$\Theta$	$\Diamond$	0
Maximum load with coupler (payload + bucket)				kg	4021	4491	3506	3936	

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 over the side 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/m<sup>3</sup>

900 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.

#### 330F L Work Tool Offering Guide\*

Boom Type	Reach Boom					
Stick Size	R3.2	R2.65				
Hydraulic Hammer	H120E s	H120E s				
	H130E s	H130E s				
	H140E s	H140E s				
Multi-Processor	MP324 CC Jaw	MP324 CC Jaw				
	MP324 D Jaw	MP324 D Jaw				
	MP324 P Jaw**	MP324 P Jaw				
	MP324 S Jaw	MP324 S Jaw				
	MP324 TS Jaw**	MP324 TS Jaw				
	MP324 U Jaw	MP324 U Jaw				
Crusher	P325	P325				
Pulverizer	P225	P225				
Demolition and Sorting Grapple	G320B	G320B				
	G325B**	G325B				
Mobile Scrap and Demolition Shear	S320B	S320B				
•	S325B***	S325B				
	S340B#	S340B#				
Compactor (Vibratory Plate)	CVP110	CVP110				
Orange Peel Grapple						
Center-Lock Pin Grabber Coupler	These work tools are available for the 330F L. Consult your Cat dealer for proper match.					
CW Dedicated Quick Coupler						

<sup>\*</sup>Matches are dependent on excavator configurations. Consult your Cat dealer for proper work tool match.

#Boom mount.

<sup>\*\*</sup>Pin-on or dedicated coupler.

<sup>\*\*\*</sup>Pin-on only.

#### 330F LN Work Tool Offering Guide\*

Boom Type	Reach Boom				
Stick Size	R3.2	R2.65			
Hydraulic Hammer	H120E s	H120E s			
Ž	H130E s	H130E s			
	H140E s	H140E s			
Multi-Processor	MP324 CC Jaw**^	MP324 CC Jaw			
	MP324 D Jaw**^	MP324 D Jaw			
	MP324 P Jaw**^	MP324 P Jaw			
	MP324 S Jaw^	MP324 S Jaw			
	MP324 TS Jaw**^	MP324 TS Jaw			
	MP324 U Jaw**^	MP324 U Jaw			
Crusher	P325^^	P325			
Pulverizer	P225^^	P225			
Demolition and Sorting Grapple	G320B**^	G320B			
	G325B***	G325B**^			
Mobile Scrap and Demolition Shear	S320B	S320B			
•	S325B***	S325B**^			
	S340B#	S340B#			
Compactor (Vibratory Plate)	CVP110	CVP110			
Orange Peel Grapple					
Center-Lock Pin Grabber Coupler	These work tools are available for the 330F LN.				
CW Dedicated Quick Coupler	— Consult your Cat deal	er for proper match.			

<sup>\*</sup>Matches are dependent on excavator configurations. Consult your Cat dealer for proper work tool match.

<sup>\*\*</sup>Pin-on or dedicated coupler.

<sup>\*\*\*</sup>Pin-on only.

<sup>#</sup>Boom mount.

 $<sup>^{\</sup>wedge}\text{Over}$  the front only with dedicated coupler.

 $<sup>^{\</sup>wedge\wedge}$ Over the front only with Center-Lock coupler.

#### **Standard Equipment**

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

#### **CAB**

- · Parallel wiper and washer
- Mirrors
- Pressurized operator station with positive filtration
- Laminated glass front upper window and tempered other windows
- Sliding upper door window (left-hand cab door)
- · 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
- 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 and ventilated 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

#### **ELECTRICAL**

- 115 amp alternator
- · Circuit breaker
- Battery, maintenance free

#### **ENGINE**

- Cat C7.1 ACERT diesel engine
- Stage IV emission package
- 4600 m altitude capability with derate from 3000 m
- Up to B20 biodiesel capable
- · Automatic engine speed control
- Electric priming pump
- Water separator in fuel line including water level sensor and indicator
- · Economy and standard power modes
- Air cleaner
- Radial seal air filter
- Variable fan speed
- High ambient capability, 52° C

#### **HYDRAULIC SYSTEM**

- Boom and stick lowering control devices with SmartBoom
- Reverse swing dampening valve
- Automatic swing parking brake
- High-performance hydraulic return filter
- · Regeneration circuit for boom and stick
- Capability of installing additional auxiliary circuits
- Up to B20 bio oil capable
- · Heavy lift mode
- Sampling ports for Scheduled Oil Sampling (S·O·S<sup>SM</sup>)
- Tilt up Air-to-Air Aftercooler (ATAAC) for easy maintenance

#### **LIGHTS**

- Cab and boom lights with 90 second time delay
- Exterior lights integrated into storage box

#### UNDERCARRIAGE/UPPERFRAME

- Long or Long Narrow undercarriage
- Grease Lubricated Track GLT2, resin seal
- Heavy duty track roller and idler
- Towing eye on base frame
- · Counterweight, 5.8 mt
- HD bottom guards
- HD travel motor guards

#### **SAFETY AND SECURITY**

- Cat one key security system
- · Door locks
- Cap locks on fuel and hydraulic tanks
- Lockable external tool/storage box
- Signaling/warning horn
- · Secondary engine shutoff switch
- Mirrors
- · Rear vision camera
- Capability to connect a beacon
- Bolt on FOGS capability

#### **INTEGRATED TECHNOLOGIES**

• Product Link

### **330F Optional Equipment**

#### **Optional Equipment**

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

#### **FRONT LINKAGE**

- Reach Boom 6.15 m (with or without Cat Grade Control)
- -R3.2 CB2 (with or without CGC)
- -R2.65CB2
- -CB2-family bucket linkage (with lifting eye)
- CW Dedicated or Cat Pin Grabber couplers

#### **TRACK**

- 900 mm triple grouser
- 800 mm triple grouser
- 700 mm triple grouser
- 600 mm triple grouser HD
- 600 mm triple grouser

#### **GUARDS**

- FOGS (Falling Object Guard System) including overhead and windshield guards
- · Vandalism guard
- · Mesh guard
- Track guiding guards
- -Full length
- -Segmented, three pieces

#### CAB

- Cab front rain protector
- Windshield
- -70-30 split, sliding, removable lower windshield with in cab storage bracket
- -One-piece, fixed

#### **HYDRAULIC SYSTEM**

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

#### **ELECTRICAL**

- Cold weather starting package, -32° C
- · Travel alarm
- Electric refueling pump, with auto shutoff and storage
- Jumpstart

#### **INTEGRATED TECHNOLOGIES**

• Cat Grade Control

#### **ENGINE**

 Quick drains, engine and hydraulic oil (QuickEvac<sup>TM</sup>)

#### **SECURITY**

- Cat MSS (anti-theft device)
- FOGS

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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