

# 349F L

Hydraulic Excavator

2017



## Engine

Engine Model	Cat® C13 ACERT™	
Power – SAE J1349	311 kW	417 hp
Power – ISO 14396	317 kW	425 hp

## Drive

Maximum Travel Speed	4.7 km/h	2.9 mph
Maximum Drawbar Pull	335 kN	75,300 lbf

## Weights

Minimum Weight	48 650 kg	107,200 lb
Maximum Weight	51 000 kg	112,400 lb

**The 349F L is built to keep your production numbers up and your owning and operating costs down.**

*Not only does the machine's C13 ACERT engine meet U.S. EPA Tier 4 Final emission standards, but it does so while giving you all the power, fuel efficiency, and reliability you need to succeed.*

*Where the real power comes in is through the hydraulic system. You can literally move tons of material all day long with a great deal of speed and precision. In fact the hydraulic system and engine work together to keep fuel consumption to an absolute minimum – all without impacting your productivity.*

*When you add in a quiet operator environment that keeps you comfortable and productive, service points that make your routine maintenance quick and easy, and multiple Cat work tools that help you do a number of jobs very well, you simply won't find a better machine in this size class.*

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# Reliable and Productive

## Power to move your material with speed and precision

### Hydraulic Horsepower, a Cat Advantage

When it comes to moving heavy material quickly and efficiently, you need hydraulic horsepower – the type of ground-breaking power the 349F L 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, allows you to switch from one tool to another in a matter of minutes.

# Fuel Efficient

Engineered to lower your operating costs





The Cat C13 ACERT engine meets Tier 4 Final emission standards and it does so without interrupting your job process. Simply turn the engine on and go to work. It will look for opportunities in your work cycle to regenerate itself, and it will give you plenty of power for the task at hand – all to help keep your owning and operating costs to an absolute minimum.

### **A Smart Design for Any Temperature**

The 349F L 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 a new variable-speed fan that reverses to blow out unwanted debris that may accumulate during your work day.

### **Biodiesel Not A Problem**

The C13 ACERT engine can run on biodiesel fuel up to B20 blended with ULSD. Just fill it up and go.

### **Proven Technology**

The right technologies fine-tuned for the right applications result in:

- **Improved Fuel Efficiency** – Up to 5% improvement over Tier 4 Interim products.
- **High Performance** across a variety of applications.
- **Enhanced Reliability** through commonality and simplicity of design.
- **Maximized Uptime and Reduced Cost** with world-class support from the Cat dealer network.
- **Minimized Impact of Emission Systems** – designed to be transparent to the operator without requiring interaction.
- **Durable Designs** with long life to overhaul.
- **Delivering Better Fuel Economy** with minimized maintenance costs while providing the same great power and response.

# Easy to Operate

Comfort and convenience to keep you productive all day long



## Safe and Quiet Cab

The 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 rearview camera to help you see what's going on around you so you can stay safely focused on the job at hand.



## Durable Structures

Made to work in your tough, heavy-duty applications

### Stable Undercarriage

The undercarriage contributes significantly to outstanding stability and durability.

Track shoes, links, rollers, idlers, and final drives are all built with 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.

### Robust Frames

The 349F L is a robust, 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 areas that take on a lot of stress like the boom foot, skirt, and counterweight.

### Great Weight

The 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 rearview camera.



# Durable Linkages

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



## Booms and Sticks for Any Job

The 349F L is offered with a range of booms and sticks. Each is built with internal baffle plates and is 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.

The Reach boom and sticks offer you excellent all-around versatility for general excavations work like multipurpose digging and loading.

## 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 for your applications.

# Versatile

Do more jobs with one machine



## Get the Most from One Machine

The Cat combination of machine and tool provides a total solution for just about any application. Work tools can be mounted either directly to the machine or to a quick coupler, making it fast and easy to release one work tool and pick up another.

## Change Jobs Quickly

Cat quick coupler brings the ability to quickly change attachments and switch from job to job. The Cat coupler is the secure way to decrease downtime and increase job site flexibility and overall productivity.

Available tool control remembers pressures and flows for up to 10 tools. Simply toggle through the monitor, select the tool, and go to work for maximum efficiency.

## 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.

## Move and Handle

Add a thumb and you have the ability to move and handle brush, rocks, and debris. For constant material handling, a grapple is your solution. Choose from three different styles for picking, sorting, and loading trash, demolition debris, or recyclables.

## 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. All Cat Work Tool attachments are supported by the same Cat dealer network as your Cat machine.

**GRAB, SORT, LOAD**



**Pro Series Hydraulic Thumbs**



**Stiff Link Thumbs**



**Demolition & Sorting Grapple**



**Contractors' Grapples**



**Trash Grapples**

**SWAP TOOLS**



**Pin Grabber Coupler**

**DIG & PACK**



**General Duty Buckets**



**Heavy Duty Buckets**



**Severe Duty Buckets**



**Extreme Duty Buckets**

**CUT, CRUSH, BREAK & RIP**



**Multi-Processors**



**Scrap & Demolition Shears**



**Secondary Pulverizers**



**Hydraulic Hammers**



**Rippers**

# 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 with Assist

Cat Grade with Assist ensures you can dig a level base with the right slope each and every time; now it works with tilt buckets to give you even greater versatility. With a touch of a button, the simple-to-use system automates boom and bucket movements typically done by the operator. Regardless of your experience or skill, you will be able to reach target grade up to 45% faster than with traditional grading techniques.

### Cat Grade 3D

Cat Grade 3D is perfect for complex excavating projects that require precise cuts and contours. The 254 mm (10 in) color monitor shows you exactly where to work and how much to cut or fill without stacking or grade checking, delivering accuracy within 30 mm (1.18 in). Factory integration of most key components reduces field installation time and labor cost, making the system less costly for you compared to other options. Plus reliability is enhanced because built-in components are protected from damage, ensuring longer service life and more accurate results.



# Safe Work Environment

Features to help protect you day in and day out

## Secure Contact Points

Multiple large steps as well as hand and guard rails will 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 on the surface of the upper structure, and the top of the storage box area, reduce your slipping hazards in all types of weather conditions. They can be removed for cleaning.

## Great Views

The rearview camera greatly enhances visibility behind the machine to help the operator work more productively. A panoramic rearview is automatically displayed on the new multi-function monitor during reverse travel. As an option, a second display can be added, providing a dedicated full-time rearview of the job site.

## Smart Lighting

Halogen lights provide plenty of illumination. 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.

## A Safe and 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.





### **Ground-Level Access**

You can reach most routine maintenance items like fuel and oil filters, 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 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**

S-O-S<sup>SM</sup> Oil sample and pressure ports provide easy checking of machine condition and are standard on every machine.

You can ensure fast, easy, and secure changing of engine and hydraulic oil with the QuickEvac<sup>TM</sup> option.

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. An optional fast fill port accessible from ground level can make refueling even easier and faster.

### **A Smart Cooling 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.



# Complete Customer Care

Unmatched support makes the difference

## Sustainable Generations ahead in every way

The 349F L is designed to compliment your business plan, reduce emissions and minimize the consumption of natural resources.

- The C13 ACERT engine meets Tier 4 Final emission standards.
- The machine has the flexibility of running on either ultra-low-sulfur diesel (ULSD) fuel with 15 ppm of sulfur or less or up to biodiesel (B20) fuel blended with ULSD.
- An overfill indicator rises when the tank is full to help the operator avoid spilling.
- Quick fill ports with connectors ensure fast, easy, and secure changing of hydraulic oil.
- Major components are rebuildable, eliminating waste and saving money by giving the machine and/or major components a second life – and even a third life.
- Link technologies enable you to collect and analyze equipment and job site data so you can maximize productivity and reduce costs.
- The 349F L is an efficient, productive machine that's designed to conserve our natural resources for generations ahead.

### 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.





# 349F L Hydraulic Excavator Specifications

## Engine

Engine Model	Cat C13 ACERT	
Net Power – SAE J1349	304 kW	408 hp
Power – ISO 14396	317 kW	425 hp
Gross Power – SAE J1995	322 kW	432 hp

Bore	130 mm	5.12 in
Stroke	157 mm	6.18 in
Displacement	12.5 L	763 in <sup>3</sup>

## Hydraulic System

Maximum Flow (total)		
Main System	770 L/min	203 gal/min
Swing System	385 L/min	102 gal/min
Pilot System	27 L/min	7.1 gal/min

Maximum Pressure		
Main System – Normal	35 000 kPa	5,076 psi
Main System – Heavy Lift	38 000 kPa	5,511 psi
Main System – Travel	35 000 kPa	5,076 psi
Main System – Swing	27 500 kPa	3,989 psi
Pilot System	4120 kPa	598 psi

Boom Cylinder		
Bore	170 mm	6.69 in
Stroke	1524 mm	60.00 in

Stick Cylinder		
Bore	190 mm	7.48 in
Stroke	1758 mm	69.21 in

TB Family Bucket Cylinder		
Bore	160 mm	6.30 in
Stroke	1356 mm	53.39 in

UB Family Bucket Cylinder		
Bore	170 mm	6.69 in
Stroke	1396 mm	54.96 in

## Drive

Gradeability	30°/70%	
Maximum Travel Speed	4.7 km/h	2.9 mph
Maximum Drawbar Pull	335 kN	75,300 lbf

## Swing Mechanism

Swing Speed	8.7 rpm	
Swing Torque	148.5 kN·m	109,500 lbf-ft
Maximum Swing Torque	221 kN·m	163,000 lbf-ft

## Service Refill Capacities

Fuel Tank Capacity	720 L	190 gal
Cooling System	50 L	13.2 gal
Engine Oil (with filter)	38 L	10 gal
Swing Drive (each)	10 L	2.6 gal
Final Drive (each)	15 L	4.0 gal
Hydraulic System (including tank)	570 L	150.6 gal
Hydraulic Tank	407 L	107.5 gal
DEF Tank	41 L	11 gal

## Track

Number of Shoes (each side)	52
Number of Track Rollers (each side)	9
Number of Carrier Rollers (each side)	2

## Sound Performance

Exterior – ISO 6395	106 dB(A)
Operator – SAE J1166/ISO 6396	69 dB(A)

- 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 noisy environment.

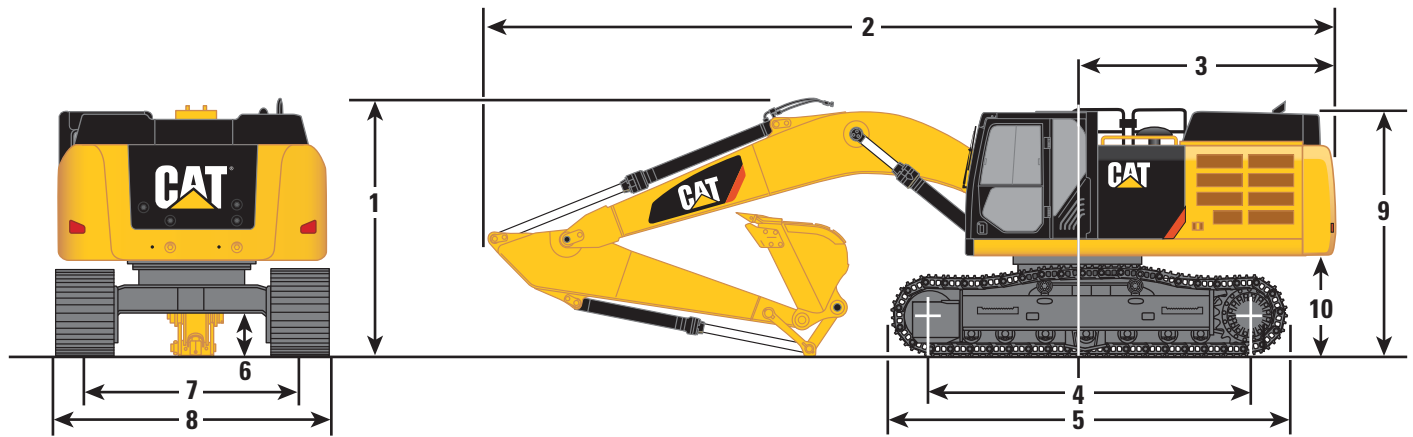
## Standards

Brakes	ISO 10265
Cab/FOGS	SAE J1356
Cab/ROPS	ISO 12117-2
DEF	ISO 22241

# 349F L Hydraulic Excavator Specifications

## Dimensions

All dimensions are approximate.



Boom Option	Long Reach Boom 7.4 m (24'3")		Reach Boom 6.9 m (22'8")		Mass Boom 6.55 m (21'6")					
	Stick Options		R4.3TB HD (14'1")	R3.9TB HD (12'10")	R3.35TB HD (11'0")	M3.0UB HD (9'10")	M2.5UB HD (8'2")			
	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in		
<b>1</b> Shipping Height to Boom – STD/Long FIX Undercarriage	3710	12'2"	3670	12'0"	3730	12'3"	4020	13'2"	4000	13'1"
Shipping Height with Handrail – STD/Long FIX Undercarriage	3370	11'1"	3370	11'1"	3370	11'1"	3370	11'1"	3370	11'1"
<b>2</b> Shipping Length – STD/Long FIX Undercarriage	12 500	41'0"	11 930	39'2"	11 920	39'1"	11 590	38'0"	11 680	38'4"
<b>3</b> Tail Swing Radius	3730	12'2"	3730	12'2"	3730	12'2"	3730	12'2"	3730	12'2"
<b>4</b> Length to Center of Rollers – Long FIX Undercarriage	4360	14'4"	4360	14'4"	4360	14'4"	4360	14'4"	4360	14'4"
<b>5</b> Track Length – Long FIX Undercarriage	5370	17'7"	5370	17'7"	5370	17'7"	5370	17'7"	5370	17'7"
<b>6</b> Ground Clearance – Long FIX Undercarriage										
Including Shoe Lug Height	480	1'7"	480	1'7"	480	1'7"	480	1'7"	480	1'7"
Not Including Shoe Lug Height	510	1'8"	510	1'8"	510	1'8"	510	1'8"	510	1'8"
<b>7</b> Track Gauge – Long FIX Undercarriage	2740	9'0"	2740	9'0"	2740	9'0"	2740	9'0"	2740	9'0"
<b>8</b> Transport Width – STD/Long FIX Undercarriage										
600 mm (24") Shoes	3340	10'11"	3340	10'11"	3340	10'11"	3340	10'11"	3340	10'11"
750 mm (30") Shoes	3490	11'5"	3490	11'5"	3490	11'5"	3490	11'5"	3490	11'5"
900 mm (35") Shoes	3640	11'11"	3640	11'11"	3640	11'11"	3640	11'11"	3640	11'11"
<b>9</b> Cab Height – STD/Long FIX Undercarriage	3230	10'6"	3230	10'6"	3230	10'6"	3230	10'6"	3230	10'6"
Cab Height with Top Guard – STD/Long FIX Undercarriage	3430	11'3"	3430	11'3"	3430	11'3"	3430	11'3"	3430	11'3"
<b>10</b> Counterweight Clearance* – STD/Long FIX Undercarriage	1280	4'2"	1280	4'2"	1280	4'2"	1280	4'2"	1280	4'2"
Bucket Type		GD		GD		GD		HD		HD
Bucket Capacity		3.1 m <sup>3</sup> (4.05 yd <sup>3</sup> )		3.1 m <sup>3</sup> (4.05 yd <sup>3</sup> )		3.1 m <sup>3</sup> (4.05 yd <sup>3</sup> )		3.2 m <sup>3</sup> (4.2 yd <sup>3</sup> )		3.2 m <sup>3</sup> (4.2 yd <sup>3</sup> )
Bucket Tip Radius		1866 mm (6'1")		1866 mm (6'1")		1866 mm (6'1")		2046 mm (6'9")		2046 mm (6'9")

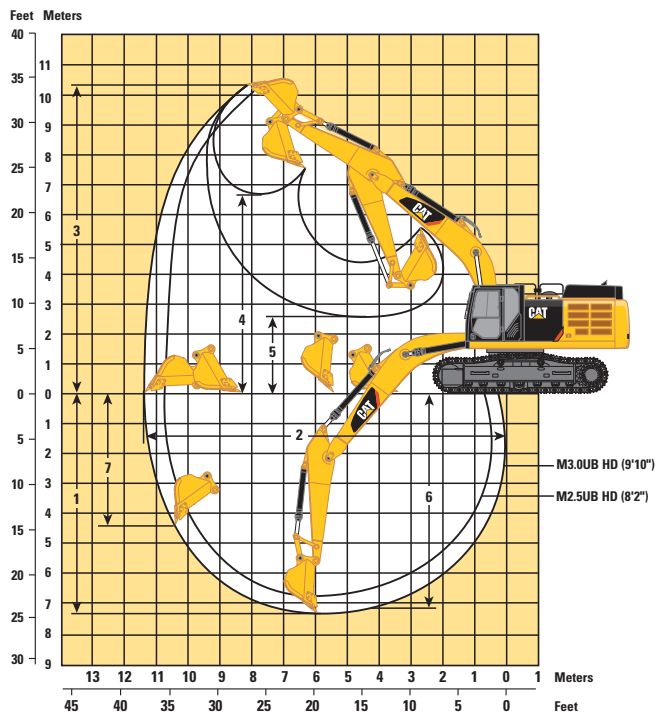
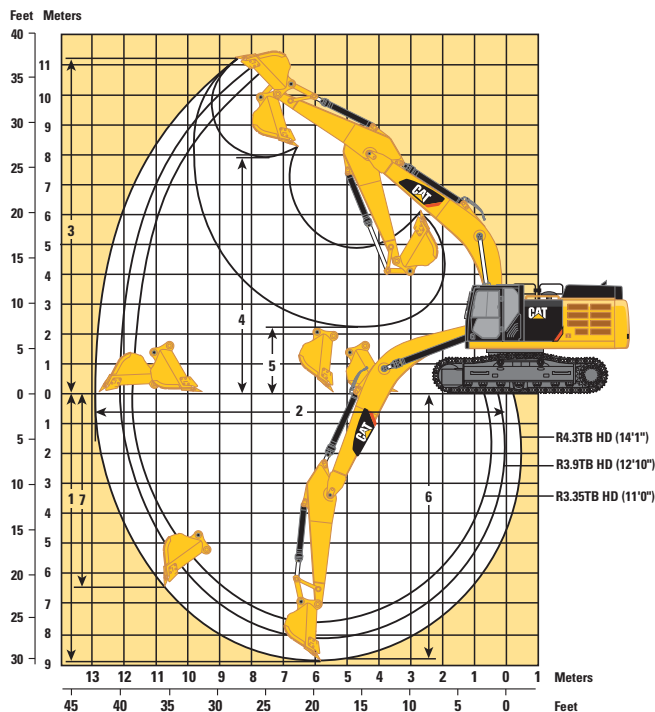
\*Without shoe lug height.

Dimensions may vary depending on bucket selection.

# 349F L Hydraulic Excavator Specifications

## Working Ranges

All dimensions are approximate.



Boom Option	Long Reach Boom 7.4 m (24'3")		Reach Boom 6.9 m (22'8")		Mass Boom 6.55 m (21'6")					
Stick Options	R4.3TB HD (14'1")		R3.9TB HD (12'10")		R3.35TB HD (11'0")		M3.0UB HD (9'10")		M2.5UB HD (8'2")	
Long FIX Undercarriage	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in
1 Maximum Digging Depth	8940	29'4"	8210	26'11"	7660	25'2"	7310	24'0"	6810	22'4"
2 Maximum Reach at Ground Level	12 960	42'6"	12 150	39'10"	11 730	38'6"	11 270	37'0"	10 810	35'6"
3 Maximum Cutting Height	11 170	36'8"	10 730	35'2"	10 820	35'6"	10 290	33'9"	10 090	33'1"
4 Maximum Loading Height	7870	25'10"	7420	24'4"	7430	24'5"	6740	22'1"	6550	21'6"
5 Minimum Loading Height	2220	7'3"	2200	7'3"	2750	9'0"	2570	8'5"	3070	10'1"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	8810	28'11"	8080	26'6"	7520	24'8"	7160	23'6"	6640	21'9"
7 Maximum Vertical Wall Digging Depth	6560	21'6"	5960	19'7"	5830	19'2"	4430	14'6"	4000	13'1"
Bucket Type	GD		GD		GD		SD		SD	
Bucket Capacity	3.1 m <sup>3</sup> (4.05 yd <sup>3</sup> )		3.1 m <sup>3</sup> (4.05 yd <sup>3</sup> )		3.1 m <sup>3</sup> (4.05 yd <sup>3</sup> )		3.2 m <sup>3</sup> (4.2 yd <sup>3</sup> )		3.2 m <sup>3</sup> (4.2 yd <sup>3</sup> )	
Bucket Tip Radius	1893 mm (6'3")		1893 mm (6'3")		1893 mm (6'3")		2121 mm (7'0")		2121 mm (7'0")	

Dimensions may vary depending on bucket selection.

# 349F L Hydraulic Excavator Specifications

## Operating Weights and Ground Pressures

	900 mm (35") Triple Grouser Shoes		750 mm (30") Triple Grouser Shoes		600 mm (24") Double Grouser Shoes	
	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)
<b>Long FIX Undercarriage</b>						
Long Reach Boom – 7.4 m (24'3")						
R4.3TB HD (14'1")	50 700 (111,800)	59 (8.6)	49 900 (110,000)	69 (10.0)	49 300 (108,700)	86 (12.5)
Reach Boom – 6.9 m (22'8")						
R3.9TB HD (12'10")	50 200 (110,700)	58 (8.4)	49 500 (109,100)	69 (10.0)	48 800 (107,600)	85 (12.3)
R3.35TB HD (11'0")	50 000 (110,200)	58 (8.4)	49 300 (108,700)	68 (9.9)	48 600 (107,100)	84 (12.2)
HD Mass Boom – 6.55 m (21'6")						
M3.0UB HD (9'10")	51 000 (112,400)	59 (8.6)	50 300 (110,900)	70 (10.2)	49 600 (109,300)	86 (12.5)
M2.5UB HD (8'2")	50 800 (112,000)	59 (8.6)	50 100 (110,500)	70 (10.2)	49 400 (108,900)	86 (12.5)

## Major Component Weights

	kg	lb
Base Machine (with boom cylinder, without counterweight, front linkage and track)		
Long FIX Undercarriage	24 800	54,700
Counterweight		
9.0 mt (9.9 t)	9000	19,800
Boom (includes lines, pins and stick cylinder)		
Long Reach Boom – 7.4 m (24'3")	5190	11,400
Reach Boom – 6.9 m (22'8")	4630	10,200
Mass Boom – 6.55 m (21'6")	4860	10,700
Stick (includes lines, pins, bucket linkage and bucket cylinder)		
R4.3TB HD (14'1")	2990	6,600
R3.9TB HD (12'10")	2760	6,100
R3.35TB HD (11'0")	2540	5,600
M3.0UB HD (9'10")	2930	6,500
M2.5UB HD (8'2")	3140	6,900
Track Shoes (per two tracks)		
600 mm (24") double grouser	5240	11,600
750 mm (30") triple grouser	5890	13,000
900 mm (35") triple grouser	6640	14,600
Buckets		
TB1880GD – 3.10 m <sup>3</sup> (4.05 yd <sup>3</sup> )	2440	5,400
UB1850HD – 3.2 m <sup>3</sup> (4.2 yd <sup>3</sup> )	2840	6,300

All weights are rounded up to nearest 10 kg and lb except for buckets. Kg and lb were rounded up separately so some of the kg and lb do not match.

Base machine includes 75 kg (165 lb) operator weight, 90% fuel weight, and undercarriage with center guard.

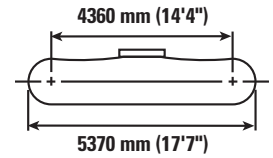
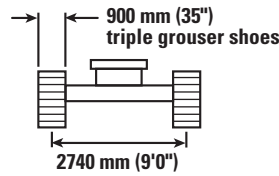
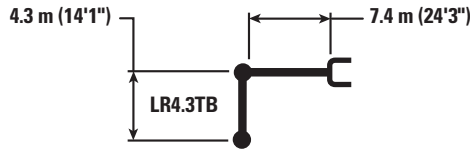
# 349F L Hydraulic Excavator Specifications

## Bucket and Stick Forces

Boom Option	Long Reach Boom 7.4 m (24'3")		Reach Boom 6.9 m (22'8")				Mass Boom 6.55 m (21'6")			
Stick Options	R4.3TB HD (14'1")		R3.9TB HD (12'10")		R3.35TB HD (11'0")		M3.0UB HD (9'10")		M2.5UB HD (8'2")	
	kN	lbf	kN	lbf	kN	lbf	kN	lbf	kN	lbf
<b>TB Linkage</b>										
General Duty Capacity										
Bucket Digging Force (ISO)	267	60,020	268	60,250	268	60,250				
Stick Digging Force (ISO)	170	38,220	183	41,140	199	44,740				
Bucket Digging Force (SAE)	235	52,830	236	53,050	236	53,050				
Stick Digging Force (SAE)	166	37,320	177	39,790	193	43,390				
Heavy Duty										
Bucket Digging Force (ISO)	266	59,800	268	60,250	268	60,250				
Stick Digging Force (ISO)	172	38,670	184	41,360	201	45,190				
Bucket Digging Force (SAE)	234	52,610	235	52,830	235	52,830				
Stick Digging Force (SAE)	167	37,540	179	40,240	195	43,840				
Severe Duty										
Bucket Digging Force (ISO)	265	59,570	266	59,800	266	59,800				
Stick Digging Force (ISO)	171	38,440	184	41,360	200	44,960				
Bucket Digging Force (SAE)	228	51,260	229	51,480	229	51,480				
Stick Digging Force (SAE)	166	37,320	178	40,020	193	43,390				
Extreme Duty										
Bucket Digging Force (ISO)	265	59,570	266	59,800	266	59,800				
Stick Digging Force (ISO)	171	38,440	184	41,360	200	44,960				
Bucket Digging Force (SAE)	228	51,260	229	51,480	229	51,480				
Stick Digging Force (SAE)	166	37,320	178	40,020	193	43,390				
<b>UB Linkage</b>										
Heavy Duty										
Bucket Digging Force (ISO)							296	66,540	296	66,540
Stick Digging Force (ISO)							212	47,660	241	54,180
Bucket Digging Force (SAE)							258	58,000	258	58,000
Stick Digging Force (SAE)							205	46,090	231	51,930
Severe Duty										
Bucket Digging Force (ISO)							290	65,190	290	65,190
Stick Digging Force (ISO)							211	47,430	239	53,730
Bucket Digging Force (SAE)							252	56,650	252	56,650
Stick Digging Force (SAE)							203	45,640	229	51,480

# 349F L Hydraulic Excavator Specifications

## Long Reach Boom Lift Capacities – Counterweight: 9.0 mt (9.9 t) – Heavy Lift: On



		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		9000 mm/360 in		10 500 mm/420 in		mm in			
9000 mm	kg																*7150	*7150	8900
360 in	lb																*15,800	*15,800	350
7500 mm	kg											*9700	8600				*6900	*6900	9890
300 in	lb											*20,800	18,350				*15,250	*15,250	390
6000 mm	kg											*10 100	8400	*7350	6400		*6900	6300	10 570
240 in	lb											*22,000	18,000				*15,200	14,000	420
4500 mm	kg							*14 200	*14 200	*12 050	10 800	*10 750	8100	*9850	6250		*7100	5750	11 010
180 in	lb							*30,600	*30,600	*26,150	23,250	*23,400	17,400	*19,700	13,400		*15,550	12,700	440
3000 mm	kg					*23 250	21 400	*16 700	14 100	*13 450	10 200	*11 550	7750	9850	6050		*7400	5400	11 220
120 in	lb					*49,850	46,250	*36,000	30,450	*29,150	22,000	*25,100	16,700	21,150	13,000		*16,250	11,950	450
1500 mm	kg					*18 950	*18 950	*18 800	13 150	*14 750	9650	12 150	7400	9650	5900		*7950	5300	11 230
60 in	lb					*44,950	42,450	*40,600	28,400	*31,900	20,800	26,150	15,950	20,700	12,600		*17,450	11,600	450
0 mm	kg					*18 100	*18 100	*20 050	12 550	15 550	9250	11 850	7150	9450	5700		*8750	5300	11 040
0 in	lb					*41,800	40,750	*43,400	27,050	33,450	19,900	25,500	15,400	20,350	12,300		*19,250	11,700	440
-1500 mm	kg			*12 200	*12 200	*21 750	18 700	*20 350	12 250	15 250	9000	11 650	7000	9350	5650		9250	5550	10 620
-60 in	lb			*27,500	*27,500	*49,700	40,200	*44,100	26,350	32,800	19,350	25,100	15,050				20,350	12,250	420
-3000 mm	kg	*14 150	*14 150	*17 800	*17 800	*26 000	18 750	*19 750	12 150	15 150	8900	11 600	6950				10 100	6050	9960
-120 in	lb	*31,550	*31,550	*40,050	*40,050	*56,350	40,300	*42,750	26,150	32,600	19,150	25,000	14,950				22,300	13,400	400
-4500 mm	kg			*24 450	*24 450	*23 400	19 050	*18 100	12 300	*14 350	8950	*11 200	7050				*11 200	7050	9010
-180 in	lb			*55,300	*55,300	*50,500	40,950	*39,100	26,450	*30,850	19,350						*24,650	15,650	360
-6000 mm	kg			*24 950	*24 950	*19 150	*19 150	*15 050	12 650	*11 450	9300						*11 100	9100	7630
-240 in	lb			*55,000	*55,000	*41,000	*41,000	*32,000	27,250								*24,400	20,450	300



ISO 10567



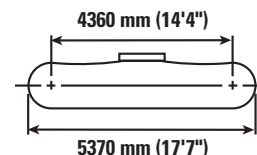
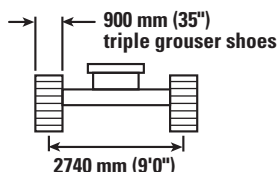
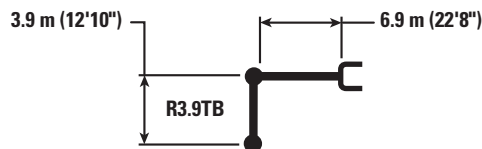
\*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

# 349F L Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight: 9.0 mt (9.9 t) – Heavy Lift: On



		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		9000 mm/360 in		mm in		
9000 mm	kg													*7900	*7900	7860
360 in	lb									*18,700	*18,700			*17,500	*17,500	310
7500 mm	kg													*7550	*7550	8970
300 in	lb													*16,600	*16,600	350
6000 mm	kg									*11 650	11 350	*11 050	8450	*7450	7400	9720
240 in	lb									*25,350	24,450	*22,950	18,100	*16,400	16,350	380
4500 mm	kg							*14 800	*14 800	*12 800	10 950	*11 550	8200	*7600	6700	10 190
180 in	lb							*32,050	*32,050	*27,750	23,550	*25,250	17,650	*16,650	14,750	400
3000 mm	kg					*23 750	22 000	*17 300	14 450	*14 150	10 450	*12 300	7950	*7900	6300	10 420
120 in	lb					*51,000	47,450	*37,400	31,150	*30,650	22,500	*26,750	17,100	*17,400	13,900	410
1500 mm	kg					*25 800	20 450	*19 450	13 600	*15 400	9950	12 400	7650	*8500	6150	10 430
60 in	lb					*59,100	44,050	*42,050	29,350	*33,350	21,450	26,650	16,500	*18,700	13,550	410
0 mm	kg					*23 800	19 700	*20 700	13 050	15 900	9600	12 150	7450	*9400	6250	10 220
0 in	lb					*55,050	42,450	*44,850	28,150	34,250	20,700	26,150	16,050	*20,700	13,700	410
-1500 mm	kg			*15 300	*15 300	*28 150	19 500	*20 950	12 800	15 700	9400	12 050	7350	10 750	6600	9770
-60 in	lb			*34,450	*34,450	*61,050	41,950	*45,350	27,550	33,750	20,250	25,900	15,800	23,650	14,500	390
-3000 mm	kg			*22 300	*22 300	*26 350	19 600	*20 050	12 750	15 650	9350	12 050	7350	12 000	7300	9050
-120 in	lb	*38,550	*38,550	*50,350	*50,350	*57,100	42,100	*43,400	27,450	33,650	20,150			26,500	16,200	360
-4500 mm	kg			*30 900	*30 900	*23 050	19 900	*17 800	12 950	*13 750	9500			*12 450	8800	7980
-180 in	lb			*66,650	*66,650	*49,700	42,850	*38,300	27,850	*29,250	20,550			*27,450	19,600	320
-6000 mm	kg					*17 400	*17 400	*13 100	*13 100					*11 950	*11 950	6380
-240 in	lb					*36,750	*36,750	*27,200	*27,200					*26,150	*26,150	250



ISO 10567



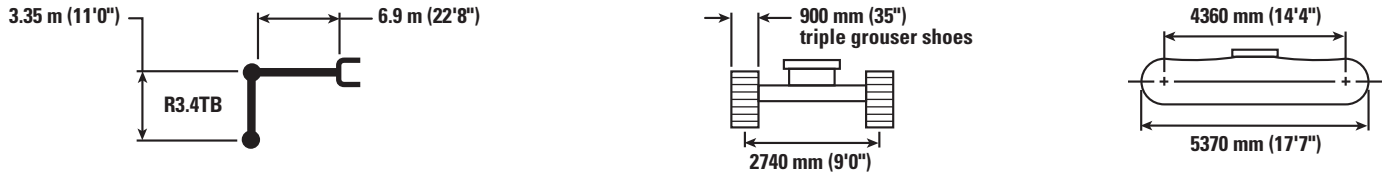
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Lift capacity stays with  $\pm 5\%$  for all available track shoes.

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

# 349F L Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight: 9.0 mt (9.9 t) – Heavy Lift: On



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		9000 mm/360 in		mm in		
9000 mm 360 in	kg lb											*9050 *20,050	*9050 *20,050	7300 290
7500 mm 300 in	kg lb							*11 950 *26,250	11 500 24,650			*8500 *18,750	*8500 *18,750	8480 330
6000 mm 240 in	kg lb							*12 500 *27,300	11 250 24,200	*10 750 *20,250	8350 17,900	*8350 *18,350	7950 17,600	9270 370
4500 mm 180 in	kg lb			*20 750 *44,500	*20 750 *44,500	*16 000 *34,600	15 150 32,700	*13 600 *29,550	10 850 23,400	*12 250 *26,700	8200 17,600	*8450 *18,550	7150 15,800	9770 390
3000 mm 120 in	kg lb			*25 750 *55,300	21 500 46,450	*18 400 *39,700	14 300 30,850	*14 850 *32,250	10 400 22,400	12 700 27,300	7950 17,100	*8800 *19,300	6750 14,850	10 010 400
1500 mm 60 in	kg lb			*18 600 *44,500	*18 600 43,700	*20 250 *43,800	13 550 29,250	*15 950 *34,600	10 000 21,500	12 450 26,750	7700 16,600	*9400 *20,700	6600 14,550	10 020 400
0 mm 0 in	kg lb			*20 950 *48,650	19 850 42,700	*21 150 *45,800	13 150 28,300	16 000 34,400	9700 20,850	12 250 26,350	7550 16,250	*10 400 *22,900	6700 14,800	9800 390
-1500 mm -60 in	kg lb	*14 900 *33,650	*14 900 *33,650	*27 700 *60,150	19 800 42,600	*20 950 *45,400	12 950 27,900	15 850 34,050	9550 20,550	12 200 26,250	7500 16,150	11 600 25,600	7150 15,750	9330 370
-3000 mm -120 in	kg lb	*23 850 *53,850	*23 850 *53,850	*25 350 *55,000	20 000 42,950	*19 650 *42,450	13 000 28,000	*15 450 *33,250	9550 20,650			*12 800 *28,150	8050 17,850	8570 340
-4500 mm -180 in	kg lb	*27 400 *59,150	*27 400 *59,150	*21 400 *46,100	20 400 43,850	*16 700 *35,800	13 250 28,600					*12 600 *27,650	9950 22,250	7430 290



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.

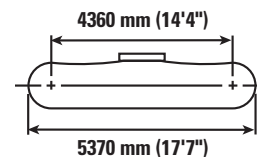
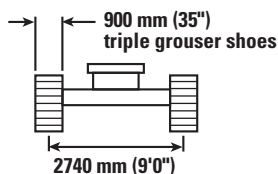
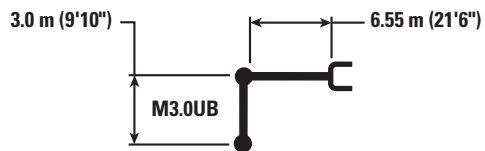
Lift capacity stays with ±5% for all available track shoes.

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



# 349F L Hydraulic Excavator Specifications

## Mass Boom Lift Capacities – Counterweight: 9.0 mt (9.9 t) – Heavy Lift: On



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		9000 mm/360 in		mm in		
7500 mm 300 in	kg lb							*11 550 28,200	11 050 23,450			*10 000 *22,050	*10 000 *22,050	7670 300
6000 mm 240 in	kg lb							*12 900 *28,200	10 900 23,450			*9700 *21,400	8750 19,450	8540 340
4500 mm 180 in	kg lb			*20 800 *44,600	*20 800 *44,600	*16 100 *34,850	14 850 32,050	*13 800 *29,950	10 550 22,650	*10 750 7850		*9800 *21,600	7750 17,100	9070 360
3000 mm 120 in	kg lb			*25 500 *54,800	21 150 45,700	*18 350 *39,600	13 950 30,100	*14 900 *32,300	10 100 21,700	12 400 26,600	7650 16,400	*10 250 *22,500	7200 15,850	9330 370
1500 mm 60 in	kg lb			*22 900 *55,100	19 900 42,850	*20 050 *43,400	13 250 28,500	*15 850 *34,350	9650 20,800	12 150 26,150	7400 15,950	*11 050 *24,250	7000 15,450	9340 370
0 mm 0 in	kg lb			*25 950 *60,500	19 450 41,850	*20 800 *45,050	12 800 27,550	15 700 33,800	9400 20,200	12 000 7300		11 800 26,000	7150 15,800	9110 360
-1500 mm -60 in	kg lb	*17 850 *40,400	*17 850 *40,400	*26 950 *58,450	19 400 41,700	*20 400 *44,150	12 650 27,200	15 550 33,500	9250 19,950			12 800 28,250	7750 17,050	8600 340
-3000 mm -120 in	kg lb	*29 450 *66,650	*29 450 *66,650	*24 100 *52,200	19 650 42,200	*18 600 *40,150	12 700 27,400	*14 200 *30,250	9350 20,250			*13 400 *29,450	8950 19,900	7760 310
-4500 mm -180 in	kg lb			*19 150 *41,000	*19 150 *41,000	*14 500 *30,500	13 100 28,350					*12 800 *28,100	11 850 26,600	6480 260



ISO 10567



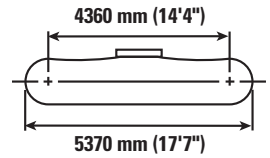
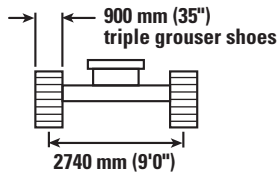
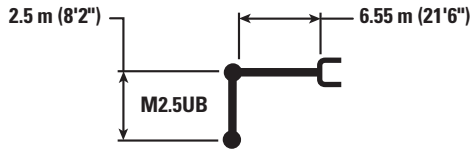
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






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

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

# 349F L Hydraulic Excavator Specifications

## Mass Boom Lift Capacities – Counterweight: 9.0 mt (9.9 t) – Heavy Lift: On



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm in
7500 mm 300 in	kg lb									*13 050 <b>*28,900</b>	11 950 <b>26,950</b>	7110 <b>280</b>
6000 mm 240 in	kg lb					*15 250 <b>*33,150</b>	*15 250 <b>*33,150</b>	*13 800 <b>*30,200</b>	10 800 <b>23,250</b>	*12 700 <b>*27,950</b>	9650 <b>21,400</b>	8030 <b>320</b>
4500 mm 180 in	kg lb			*22 650 <b>*48,500</b>	*22 650 <b>*48,500</b>	*17 150 <b>*37,050</b>	14 700 <b>31,700</b>	*14 500 <b>*31,600</b>	10 500 <b>22,600</b>	*12 850 <b>*28,250</b>	8450 <b>18,650</b>	8600 <b>340</b>
3000 mm 120 in	kg lb			*58,350	44,750	*19 200 <b>*41,500</b>	13 850 <b>29,900</b>	*15 500 <b>*33,650</b>	10 100 <b>21,700</b>	12 700 <b>27,950</b>	7850 <b>17,250</b>	8880 <b>350</b>
1500 mm 60 in	kg lb					*20 650 <b>*44,650</b>	13 250 <b>28,500</b>	16 050 <b>34,550</b>	9700 <b>20,950</b>	12 450 <b>27,450</b>	7650 <b>16,800</b>	8890 <b>350</b>
0 mm 0 in	kg lb			*23 950 <b>*56,350</b>	19 650 <b>42,200</b>	*21 000 <b>*45,500</b>	12 900 <b>27,750</b>	15 800 <b>34,000</b>	9500 <b>20,450</b>	12 900 <b>28,350</b>	7850 <b>17,250</b>	8640 <b>340</b>
-1500 mm -60 in	kg lb	*18 000 <b>*41,100</b>	*18 000 <b>*41,100</b>	*26 050 <b>*56,650</b>	19 700 <b>42,350</b>	*20 150 <b>*43,650</b>	12 800 <b>27,600</b>	15 750 <b>33,900</b>	9450 <b>20,350</b>	14 150 <b>*31,150</b>	8550 <b>18,850</b>	8100 <b>320</b>
-3000 mm -120 in	kg lb	*27 750 <b>*60,500</b>	*27 750 <b>*60,500</b>	*22 750 <b>*49,200</b>	20 000 <b>43,000</b>	*17 800 <b>*38,300</b>	13 000 <b>28,000</b>			*14 000 <b>*30,800</b>	10 150 <b>22,550</b>	7210 <b>290</b>
-4500 mm -180 in	kg lb			*16 800 <b>*35,700</b>	*16 800 <b>*35,700</b>					*12 750 <b>*27,850</b>	*12 750 <b>*27,850</b>	5800 <b>230</b>



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.

# 349F L Hydraulic Excavator Specifications

## Bucket Specifications and Compatibility

									349F L					349F L			
									900 mm (35") Triple Grouser Shoes					600 mm (24") Triple Grouser Shoes			
									Counterweight – 9.0 mt (9.9 t)					Counterweight – 9.0 mt (9.9 t)			
Linkage	Width		Capacity		Weight		Fill	ME Boom		HD Reach Boom		HD LR Boom	ME Boom		HD Reach Boom		
	mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		%	M2.5 (8'2")	M3.0 (9'10")	R3.35 HD (11'0")	R3.9 HD (12'10")	LR 4.3 (14'1")	M2.5 (8'2")	M3.0 (9'10")	R3.35 HD (11'0")	R3.9 HD (12'10")
<b>Without Pin Grabber Coupler</b>																	
General Duty (GDC)	TB	750	30	0.95	1.24	1311	2,889	100%			●	●	●			●	●
	TB	900	36	1.23	1.60	1441	3,176	100%			●	●	●			●	●
	TB	1050	42	1.51	1.98	1525	3,361	100%			●	●	●			●	●
	TB	1200	48	1.80	2.36	1676	3,694	100%			●	●	⊙			●	●
	TB	1350	54	2.10	2.74	1792	3,950	100%			●	●	⊖			●	⊙
	TB	1500	60	2.39	3.13	1943	4,282	100%			⊙	⊙	○			⊙	⊖
	TB	1700	68	2.78	3.64	2128	4,690	100%			⊖	⊖	◇			⊖	○
TB	1850	74	3.08	4.04	2254	4,968	100%			○	○	◇			○	○	
General Duty XL (GDXL)	TB	2000	80	3.82	5.00	2457	5,415	100%			◇	◇	X			◇	◇
Heavy Duty (HD)	TB	900	36	1.08	1.41	1594	3,513	100%			●	●	●			●	●
	TB	1050	42	1.34	1.75	1684	3,712	100%			●	●	●			●	●
	TB	1200	48	1.60	2.09	1834	4,043	100%			●	●	●			●	●
	TB	1350	54	1.87	2.44	1962	4,324	100%			●	●	⊖			●	●
	TB	1500	60	2.14	2.80	2125	4,684	100%			●	⊙	○			●	⊙
	TB	1650	66	2.41	3.15	2286	5,039	100%			⊙	⊖	○			⊙	⊖
	TB	1800	72	2.69	3.52	2423	5,340	100%			⊖	○	◇			⊖	○
Severe Duty (SD)	UB	1850	73	3.19	4.16	2735	6,028	100%	⊖	○				⊖	○		
	TB	750	30	0.88	1.15	1446	3,187	90%			●	●	●			●	●
	TB	900	36	1.08	1.41	1677	3,696	90%			●	●	●			●	●
	TB	1050	42	1.34	1.75	1779	3,921	90%			●	●	●			●	●
	TB	1200	48	1.60	2.09	1952	4,302	90%			●	●	●			●	●
	TB	1400	55	1.87	2.44	2180	4,805	90%			●	●	⊙			●	●
	TB	1550	61	2.14	2.80	2381	5,248	90%			●	⊙	⊖			●	⊙
	TB	1700	67	2.41	3.16	2524	5,563	90%			⊙	⊖	○			⊙	⊖
	TB	1850	74	2.69	3.52	2726	6,008	90%			⊖	○	◇			⊖	○
	UB	1450	58	2.39	3.13	2540	5,598	90%	●	●				●	⊙		
UB	1850	73	3.21	4.20	2987	6,583	90%	⊖	○				⊖	○			
Extreme Duty (XD)	TB	1250	49	1.60	2.09	2224	4,902	90%			●	●	●			●	●
	TB	1400	55	1.87	2.44	2366	5,215	90%			●	●	⊖			●	●
Maximum load pin-on (payload + bucket)								kg	7876	7133	6868	6342	5282	7643	6914	6663	6147
								lb	17,359	15,721	15,137	13,978	11,642	16,845	15,238	14,685	13,548

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/m<sup>3</sup> (3,500 lb/yd<sup>3</sup>)
- ⊙ 1800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)
- ⊖ 1500 kg/m<sup>3</sup> (2,500 lb/yd<sup>3</sup>)
- 1200 kg/m<sup>3</sup> (2,000 lb/yd<sup>3</sup>)
- ◇ 900 kg/m<sup>3</sup> (1,500 lb/yd<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.

# 349F L Hydraulic Excavator Specifications

## Bucket Specifications and Compatibility

									349F L					349F L				
									900 mm (35") Triple Grouser Shoes					600 mm (24") Triple Grouser Shoes				
									Counterweight – 9.0 mt (9.9 t)									
	Linkage	Width		Capacity		Weight		Fill	ME Boom		HD Reach Boom		HD LR Boom	ME Boom		HD Reach Boom		
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		%	M2.5 (8'2")	M3.0 (9'10")	R3.35 HD (11'0")	R3.9 HD (12'10")	LR 4.3 (14'1")	M2.5 (8'2")	M3.0 (9'10")	R3.35 HD (11'0")	R3.9 HD (12'10")
<b>With Pin Grabber Coupler</b>																		
General Duty (GDC)	TB	750	30	0.95	1.24	1311	2,889	100%			●	●	●			●	●	
	TB	900	36	1.23	1.60	1441	3,176	100%			●	●	●			●	●	
	TB	1050	42	1.51	1.98	1525	3,361	100%			●	●	●			●	●	
	TB	1200	48	1.80	2.36	1676	3,694	100%			●	●	⊙			●	●	
	TB	1350	54	2.10	2.74	1792	3,950	100%			●	●	⊖			●	⊙	
	TB	1500	60	2.39	3.13	1943	4,282	100%			⊙	⊙	○			⊙	⊖	
	TB	1700	68	2.78	3.64	2128	4,690	100%			⊖	⊖	◇			⊖	○	
TB	1850	74	3.08	4.04	2254	4,968	100%			○	○	◇			○	○		
General Duty XL (GDXL)	TB	2000	80	3.82	5.00	2457	5,415	100%			◇	◇	X			◇	◇	
Heavy Duty (HD)	TB	900	36	1.08	1.41	1594	3,513	100%			●	●	●			●	●	
	TB	1050	42	1.34	1.75	1684	3,712	100%			●	●	●			●	●	
	TB	1200	48	1.60	2.09	1834	4,043	100%			●	●	●			●	●	
	TB	1350	54	1.87	2.44	1962	4,324	100%			●	●	⊖			●	●	
	TB	1500	60	2.14	2.80	2125	4,684	100%			●	⊙	○			●	⊙	
	TB	1650	66	2.41	3.15	2286	5,039	100%			⊙	⊖	○			⊙	⊖	
Severe Duty (SD)	TB	750	30	0.88	1.15	1446	3,187	90%			●	●	●			●	●	
	TB	900	36	1.08	1.41	1677	3,696	90%			●	●	●			●	●	
	TB	1050	42	1.34	1.75	1779	3,921	90%			●	●	●			●	●	
	TB	1200	48	1.60	2.09	1952	4,302	90%			●	●	●			●	●	
	TB	1400	55	1.87	2.44	2180	4,805	90%			●	●	⊙			●	●	
	TB	1550	61	2.14	2.80	2381	5,248	90%			●	⊙	⊖			●	⊙	
	TB	1700	67	2.41	3.16	2524	5,563	90%			⊙	⊖	○			⊙	⊖	
	TB	1850	74	2.69	3.52	2726	6,008	90%			⊖	○	◇			⊖	○	
Extreme Duty (XD)	TB	1250	49	1.60	2.09	2224	4,902	90%			●	●	●			●	●	
	TB	1400	55	1.87	2.44	2366	5,215	90%			●	●	⊖			●	●	
Maximum load pin-on (payload + bucket)									kg	7043	6300	6035	5509	4449	6810	6081	5830	5314
									lb	15,523	13,885	13,301	12,142	9,806	15,009	13,403	12,849	11,712

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/m<sup>3</sup> (3,500 lb/yd<sup>3</sup>)
- ⊙ 1800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)
- ⊖ 1500 kg/m<sup>3</sup> (2,500 lb/yd<sup>3</sup>)
- 1200 kg/m<sup>3</sup> (2,000 lb/yd<sup>3</sup>)
- ◇ 900 kg/m<sup>3</sup> (1,500 lb/yd<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.

# 349F L Hydraulic Excavator Specifications

## 349F L Work Tool Offering Guide\*

Boom Type	Long Reach Boom HD	Reach Boom HD		Mass Boom	
Stick Size	R4.3 HD (14'1")	R3.9 HD (12'10")	R3.35 HD (11'0")	M3.0 (9'10")	M2.5 (8'2")
Hydraulic Hammer	H160E s H180E s	H160E s H180E s	H160E s H180E s	H160E s H180E s	H160E s H180E s
Multi-Processor	MP30 CC Jaw MP30 CR Jaw MP30 PP Jaw MP30 PS Jaw MP30 S Jaw MP30 TS Jaw	MP30 CC Jaw MP30 CR Jaw MP30 PP Jaw MP30 PS Jaw MP30 S Jaw MP30 TS Jaw	MP30 CC Jaw MP30 CR Jaw MP30 PP Jaw MP30 PS Jaw MP30 S Jaw MP30 TS Jaw	MP30 CC Jaw MP30 CR Jaw MP30 PP Jaw MP30 PS Jaw MP30 S Jaw MP30 TS Jaw	MP30 CC Jaw MP30 CR Jaw MP30 PP Jaw MP30 PS Jaw MP30 S Jaw MP30 TS Jaw MP40 CC Jaw MP40 CR Jaw MP40 PS Jaw
Pulverizer	P235	P235	P235	P235	P235
Demolition and Sorting Grapple	G330	G330	G330	G330	G330
Mobile Scrap and Demolition Shear	S340B S365C S385C	S340B S365C S385C	S340B S365C S385C	S340B S365C S385C	S340B S365C S385C
Orange Peel Grapple	These work tools are available for the 349F L. Consult your Cat dealer for proper match.				
Rippers					
Center-Lock™ Pin Grabber Coupler					

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

# 349F L Standard Equipment

## Standard Equipment

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

### ENGINE

- Air cleaner
- Cat C13 ACERT diesel engine
- Biodiesel capable
- Meets Tier 4 Final emission standards
- 2300 m (7,500 ft) altitude capability
- Electric priming pump
- Automatic engine speed control
- Standard, economy and high power modes
- Two-speed travel
- Side-by-side cooling system
- Radial seal air filter
- Primary filter with water separator and water separator indicator switch
- Fuel differential indicator switch in fuel line

### HYDRAULIC SYSTEM

- Automatic swing parking brake
- Regeneration circuit for boom and stick
- High-performance hydraulic return filter
- Regeneration circuit for boom and stick
- Capability of installing additional auxiliary circuits
- Bio oil capable
- 52° ambient cooling capability
- Heavy lift mode
- Joystick control pattern changer through monitor
- Fine swing\*

### CAB

- Wiper and washer
- Mirrors
- Pressurized operator station with positive filtration
- Windshield
  - 70-30 split, sliding, removable lower windshield with in cab storage bracket
- Sliding upper door window (left-hand cab door)
- Openable skylight
- Sunscreen

- Interior:
  - Glass-breaking safety hammer
  - Coat hook
  - Beverage holder
  - Literature holder
  - Interior lighting
  - AM/FM radio
  - 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:
  - Adjustable high-back, heated and ventilated seat with air suspension
  - Seat belt, 51 mm (2 in)
  - 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
  - Third travel pedal
- 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

### UNDERCARRIAGE

- Grease Lubricated Track GLT4
- Towing eye on base frame
- Heavy-duty track rollers
- Track motor guards
- Swivel guard
- Heavy duty bottom guard

### ELECTRICAL

- 80 amp alternator
- Circuit breaker
- Capability to electrically connect a beacon
- Travel alarm

### LIGHTS

- Boom light
- Cab lights with time delay
- Exterior lights integrated into storage box

### SAFETY & 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
- Openable skylight for emergency exit
- Rearview camera
- Capability to connect a beacon
- Bolt-on FOGS capability
- Safety hammer for breaking cab glass

### INTEGRATED TECHNOLOGIES

- Product Link
- Rear vision camera

\*North America

## Optional Equipment

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

### ENGINE

- Quick drains, engine and hydraulic oil\* \*\*

### HYDRAULIC SYSTEM

- Control pattern quick-changer
- Boom and stick lowering control devices
- HP hydraulic lines for boom and stick
- MP hydraulic lines for boom and stick
- QC hydraulic lines for boom and stick
- QC control
- Bio oil
- Heavy lift

### UNDERCARRIAGE

- Tracks:
  - 900 mm (35") triple grouser\*
  - 750 mm (30") triple grouser\*\*
  - 750 mm (30") single grouser\*
  - 600 mm (24") double grouser\*\* \*\*\*
  - 600 mm (24") double grouser Heavy Duty\* \*\*
- Track guiding guards:
  - Center
  - Segmented
  - Full length
- Idler:
  - Forging
  - Fabricating

### COUNTERWEIGHT

- 8.6 mt (9.4 t) with removal device\*
- 9.0 mt (9.9 t)

### ELECTRICAL

- Cold weather package
- Jump start receptacle

### FRONT LINKAGE

- Reach Boom, 7.4 m (24'2")\*
- Reach Boom, 6.9 m (22'8")
- Mass Boom, 6.55 m (21'6")
- Reach stick, R4.3 m TB (14'1")\*
- Reach stick, R3.9 m TB (12'10")\* \*\*
- Reach stick, R3.35 m TB (11')
- Mass stick, M3.0 m UB (9'10")
- Mass stick, M2.5 m UB (8'2")
- TB bucket linkage with lifting eye
- UB bucket linkage with/without lifting eye
- Pin Grabber coupler

### LIGHTS

- Working lights, cab mounted with time delay
- Halogen lights, cab mounted with time delay
- Halogen boom lights
- HID boom lights

### SECURITY

- Falling Object Guard system (FOGS)

### TECHNOLOGY

- Cat Grade Control (2D, 3D)
- Cat Production Measurement

\*North America

\*\*ANZ

\*\*\*South Korea

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