

349F L

Hydraulic Excavator



Engine

Engine Model	Cat® C13 ACERT™	
Net Engine Power – ISO 14396	317 kW	425 hp
Net Power – SAE J1349/ISO 9249	311 kW	417 hp

Drive

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

Weights

Machine Weight	48 600 kg	107,100 lb
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Introduction

The 349F is built to keep your production numbers up and your owning and operating costs down. The Cat C13 ACERT engine meets Korea Tier 4 Final emission standards while delivering top power, fuel efficiency, and reliability.

Where the real power comes in is through the hydraulic system, which enables the 349F to move tons of material all day long with speed and precision.

A quiet cab keeps the operator comfortable and productive, ground-level service points make routine maintenance easy, and Cat work tools provide the flexibility to take on a variety of jobs. When you combine all of these features, you get a 49-ton excavator that delivers outstanding productivity, comfort, versatility and fuel efficiency.

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Hydraulics

Power to move material with speed and precision

A Powerful, Efficient Design

When it comes to moving heavy material quickly and efficiently, you need hydraulic horsepower – the type of ground-breaking power the 349F can deliver. Major hydraulic components like pumps and valves are located close together, so shorter tubes and lines can be used. This design provides less friction loss, reduced pressure drops, and more power to the ground.

Exceptional Control

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 the 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 with several options from which to choose.

Boom and Stick Oil Re-Circulation for Added Efficiency

To save energy and improve fuel efficiency, the 349F 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. 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.



Operator Station

Comfort and convenience to keep you productive





Intuitive LCD Monitor

The LCD monitor is easy to see and navigate. Programmable in up to 42 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 focused on the job at hand.

Safe, Quiet Cab

The Roll-Over Protective Structure (ROPS) certified cab provides you with a safe working environment. To enhance comfort, the cab is 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 top pickup trucks.

Comfortable Seat

The seat includes air suspension and heated option. To maximize comfort, all seats include a reclining back, upper and lower slide adjustments, and height and tilt angle adjustments.

Automatic Climate Control

The automatic climate control system features multiple air outlets with filtered ventilation. Air flows on the floor, behind the seat, and in front of you to make your work in either hot or cold weather much more pleasant and productive.

Controls Just For You

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

Ample Storage and Auxiliary Power

Storage space is located in the front, rear, and side consoles of the cab. A drink holder accommodates a large mug with handle, and a shelf behind the seat provides storage for a large lunch or toolboxes. Two 12-volt power supply sockets are conveniently located near the key storage areas for charging your electronic devices such as an MP3 player, cell phone, or tablet.

Engine

Powerful and fuel efficient to meet your expectations



Proven Technology

The C13 ACERT engine with Tier 4 technology is equipped with a combination of proven electronic, fuel, air, and aftertreatment components, which delivers high productivity, fuel efficiency, reliability, service life and the following benefits:

- **Improved fluid efficiency** over 349D2, 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.
- **Improved power** and response.

More Powerful, Reliable Engine Electronics

The electronics used in Cat Tier 4 Final engines are more powerful and robust than ever. Enhanced features like an over-foam wiring harness increase quality and reliability in the most demanding applications.

Next Generation Fuel Systems

As a key component of Cat Tier 4 Technology, injection timing precisely controls the fuel injection process through a series of carefully timed microbursts. This injection timing provides more control of combustion for the cleanest, most efficient fuel burn. To maximize your value, Caterpillar engineers specified fuel systems based on the power and performance demands for each engine. The advanced MEUI™-C injector platform delivers increased injection pressures and more precise fuel rates. It also enhances responsiveness while controlling soot.

Innovative Air Management

Cat Tier 4 Final engines feature innovative air management systems that optimize airflow and enhance power, efficiency, and reliability. Cat engines use a range of simple, reliable turbocharging solutions based on engine size and application. Turbo performance is matched to rated output for high productivity, excellent fuel efficiency, long life, and low operating costs for you.

Cat NO_x Reduction System

The Cat NO_x Reduction System captures and cools a small quantity of exhaust gas, then routes it back into the combustion chamber where it drives down combustion temperatures and reduces NO_x emissions. With more than a decade of Caterpillar engineering research, this technology is the most reliable system of its type.

Aftertreatment Technologies

The aftertreatment solution utilized for Tier 4 Final products is the next evolutionary step for Cat engines with ACERT Technology. To meet the reduction in NO_x emissions required by Korea Tier 4 Final emission standards, Caterpillar engineers added a new system to the aftertreatment solution, Selective Catalytic Reduction (SCR).

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. These requirements are met by many brands of DEF, including those that carry the AdBlue or API certifications.

Regeneration without Interruption

The Cat C13 ACERT engine uses Korea Tier 4 Final emission standards, and it does so without interrupting your job. 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 as low as possible.

Automatic Engine Speed Control and Automatic Idle Shutdown

Two built-in features contribute to improved fuel efficiency: automatic engine speed control and automatic engine idle shutdown. Automatic engine speed control lowers 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, which you can set through the monitor. You also have a choice of three power modes – high power, standard power, and eco mode. Simply change between modes through the console switch panel to meet your work needs. All of these benefits help lower fuel consumption, exhaust and sound emissions, and repair and maintenance costs, while increasing engine life for you.

Side-by-Side Cooling System

The 349F features a side-by-side cooling system that allows you to put the machine to work in extreme 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 variable-speed fan that reverses to blow out unwanted debris that may accumulate during your work day.

Biodiesel Fuel

The C13 ACERT engine can run on B20 biodiesel fuel that meets ASTM 6751 standards – all to give you more potential fuel-saving flexibility.



Structures and Undercarriage

Built to work in your tough, heavy-duty applications

Robust Frames

The 349F is a well-built machine designed for long service life. The upper frame has mountings made specifically to support the heavy-duty cab; it's also reinforced around 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, resulting in higher productivity.

Durable Undercarriage

The 349F undercarriage provides outstanding stability and durability. Track shoes, links, rollers, idlers, and final drives are all built with long-lasting, high-tensile-strength steel. Cat Grease Lubricated Track 4 (GLT4) 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. Standard track 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.

Counterweight

A 9.0 mt (9.9 ton) counterweight is available to balance your work needs. It is built with thick steel plates and reinforced fabrications to make them less susceptible to damage. It has curved surfaces that match the machine's sleek, smooth appearance along with integrated housings to help protect the standard rearview camera.

Front Linkage

Reliable, durable, and versatile to meet all your application needs



Heavy-Duty Boom and Stick

The 349F is available with a standard heavy-duty (HD) reach boom and a standard heavy-duty (HD) stick. The heavy-duty reach front linkage is built with internal baffle plates and stress-relieved for added durability, and each undergoes ultrasound inspection to ensure quality and reliability.

To improve durability, 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. The boom nose pin retention method is a captured flag design for enhanced durability.

To improve durability, the standard 6.9 m (22'8") HD reach boom and 3.35 m (11'0") HD reach stick offer you excellent all-around versatility for general excavation work such as multi-purpose digging and loading.



Attachments

Tools to make you productive and profitable



Get The Most Out Of One Machine

You can easily expand the performance of your machine by utilizing any of the variety of attachments offered by Cat Work Tools.

Dig and Load

A wide range of buckets dig everything from top soil to harsh, abrasive material. High-capacity buckets load trucks in a minimum number of passes for top productivity.

Change Jobs Quickly

A quick coupler allows operators to quickly change attachments and switch from job to job. The Cat pin grabber coupler is the secure way to decrease downtime and increase job site flexibility and overall productivity.

Move and Handle

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 profits. 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



Contractors' Grapples



Trash Grapples

DIG & PACK



General Duty Buckets



Heavy Duty Buckets



Severe Duty Buckets

CUT, CRUSH, BREAK & RIP



Hydraulic Hammers



Rippers

SWAP TOOLS



Pin Grabber Coupler

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 offers 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 such as Product Link™ wirelessly connect you to your equipment, giving you valuable insight into how your machine or fleet is performing. Track location, hours, fuel usage, idle time, and event codes through the online VisionLink® interface so you can make timely, fact-based decisions that can boost job site efficiency and productivity, and lower operating costs.

GRADE Technologies

GRADE technologies like Cat Grade Control Depth and Slope combine digital design data and in-cab guidance to help you work more productively and accurately with less rework. Real-time bucket tip positioning and cut and fill data on the standard cab monitor can quickly guide you to grade, saving money on fuel and materials. Easily upgrade to AccuGrade™ when 3D control is required.

DETECT Technologies

DETECT technologies like the rear-vision camera enhance awareness by expanding your view of the environment around working equipment. This feature helps operators work with greater confidence and at peak performance while keeping people and assets safe.



Ground-Level Access

Most routine maintenance items such as fuel and oil filters, fluid taps, and grease points can be reached 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.

Serviceability

Designed to make your maintenance quick and easy



A Cool Design

The unique cooling package includes a fuel-saving variable-speed fan and a radiator and AC (air conditioner) condenser mounted side by side to help prevent plugging. 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.

Other Service Benefits

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.

Safety

Features to help protect you day in and day out

A Safe, Quiet Cab

The ROPS 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 top pickup trucks.

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.

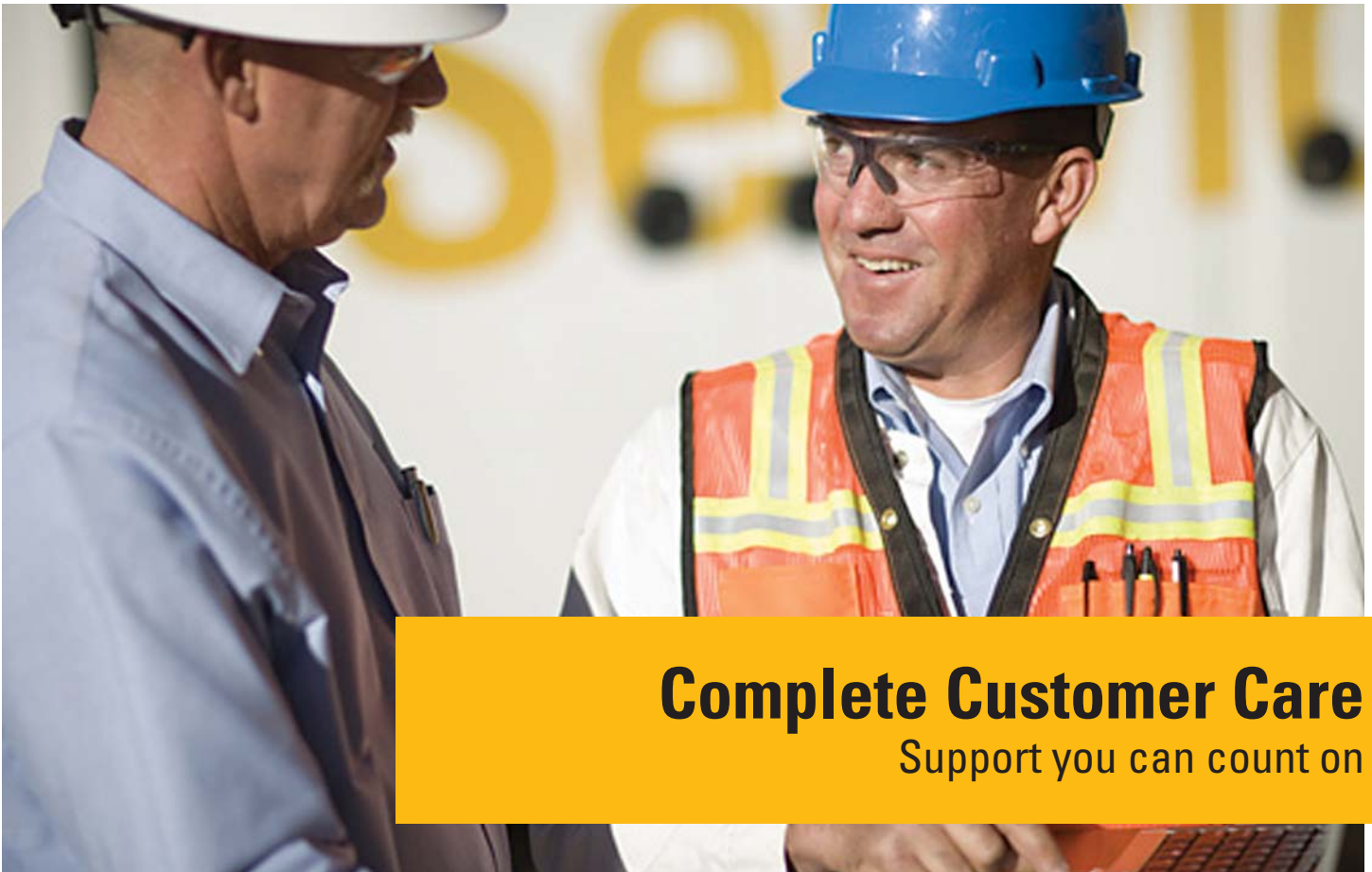
Enhanced Visibility

Ample glass gives you excellent visibility out front and to the side, and the standard rearview camera gives you a clear view behind the machine through the cab monitor. The available split-configuration windshield features an upper window with handles that makes it easy to slide and store above you and a lower window that can be removed and stored on the inside wall of the cab. The large skylight also serves as an emergency exit and provides you with enhanced overhead visibility.

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.





Complete Customer Care

Support you can count on

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.

Advice You Can Trust

What are the job requirements and machine attachments? What production is needed? Your Cat dealer can provide recommendations to help you make the right machine choices.

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 achieve lower owning and operating costs over time.

Support Agreements to Fit Your Needs

Cat dealers offer a variety of customer support agreements and work with you to develop a plan to meet your specific needs. These plans can cover the entire machine, including attachments, to help protect your investment.

Operating Techniques to Boost Your Profits

Improving operating techniques can boost your profits. Your Cat dealer has videos, literature, and other ideas to help you increase productivity. Caterpillar also offers simulators and certified operator training to help maximize the return on your investment.

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.



Sustainability

Protecting resources for future generations

- The C13 ACERT engine is designed to meet Korea Tier 4 Final emission standards, resulting in fewer CO₂ emissions.
- The 349F has the flexibility of running on either ultra-low-sulfur diesel (ULSD) fuel with 15 ppm of sulfur or less or biodiesel (B20) fuel blended with ULSD.
- An overfill indicator rises when the tank is full to help the operator avoid spillage.
- Quick fill ports with connectors ensure fast, easy, and secure changing of hydraulic oil.
- The machine is built to be rebuilt with major structures and components remanufactured to reduce waste and replacement costs.
- The 349F is an efficient, productive machine that's designed to conserve natural resources for future generations.



349F L Hydraulic Excavator Specifications

Engine

Engine Model	Cat C13 ACERT	
Net Engine Power – ISO 14396	317 kW	425 hp
Net Power – SAE J1349/ISO 9249	311 kW	417 hp
Bore	130 mm	5.12 in
Stroke	157 mm	6.18 in
Displacement	12.5 L	763 in ³

Weights

Machine Weight*	48 600 kg	107,100 lb
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*6.9 m (22'8") HD Reach boom, R3.35TB (11'0") HD stick, 9.0 mt (9.9 ton) counterweight, Long undercarriage, 3.1 m³ (4.1 yd³) bucket, 600 mm (24") DG shoes.

Hydraulic System

Main System – Maximum Flow (Total)	770 L/min	203 gal/min
Swing System – Maximum Flow	385 L/min	102 gal/min
Maximum Pressure – Equipment	35 000 kPa	5,076 psi
Maximum Pressure – Equipment (Lift mode)	38 000 kPa	5,512 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	27 500 kPa	3,989 psi
Pilot System – Maximum Flow	27 L/min	7.1 gal/min
Pilot System – Maximum Pressure	4120 kPa	598 psi
Boom Cylinder – Bore	170 mm	6.69 in
Boom Cylinder – Stroke	1524 mm	60.00 in
Stick Cylinder – Bore	190 mm	7.48 in
Stick Cylinder – Stroke	1758 mm	69.21 in
TB Family Bucket Cylinder – Bore	160 mm	6.30 in
TB Family Bucket Cylinder – Stroke	1356 mm	53.39 in

Drive

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

Service Refill Capacities

Fuel Tank Capacity	720 L	190 gal
Diesel Exhaust Fluid Tank	41 L	11 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

Track

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

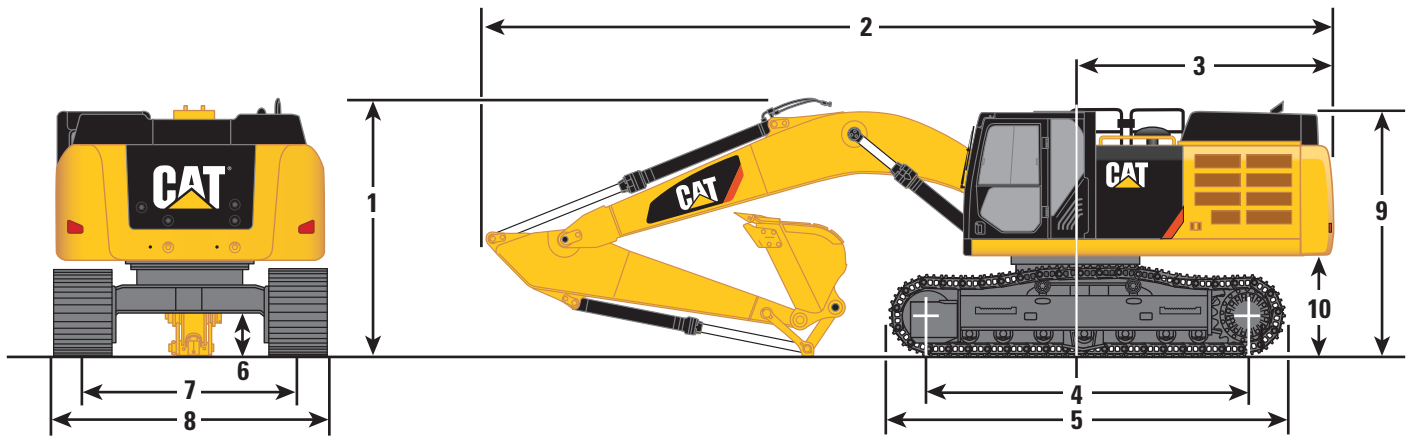
Standards

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

349F L Hydraulic Excavator Specifications

Dimensions – Long Undercarriage

All dimensions are approximate.



Heavy-Duty Reach Boom 6.9 m (22'8")

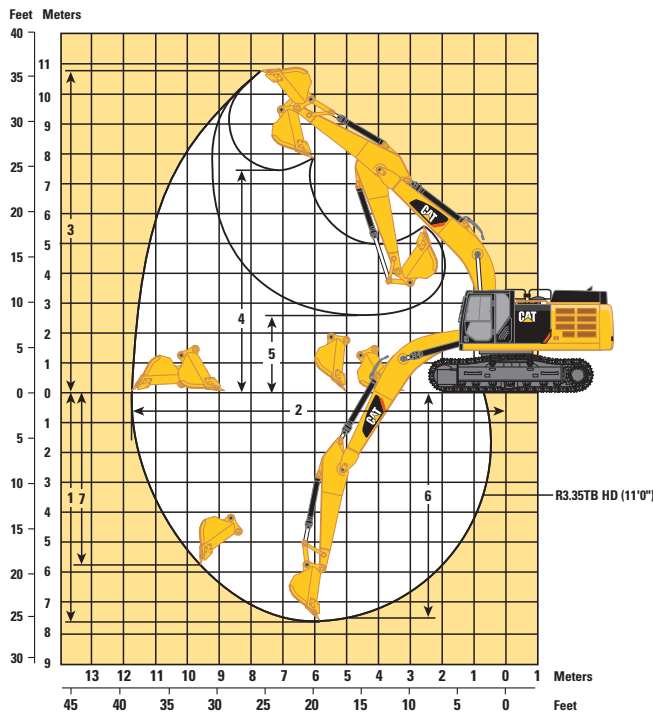
Stick	R3.35TB HD (11'0")	
1 Shipping Height to Boom	3730 mm	12'3"
Shipping Height with Handrail	3370 mm	11'1"
2 Shipping Length	11 920 mm	39'1"
3 Tail Swing Radius	3760 mm	12'4"
4 Length to Center of Rollers	4360 mm	14'4"
5 Track Length	5370 mm	17'7"
6 Ground Clearance		
Including Shoe Lug Height	480 mm	1'7"
Not Including Shoe Lug Height	510 mm	1'8"
7 Track Gauge	2740 mm	9'0"
8 Transport Width		
600 mm (24") Shoes	3340 mm	10'11"
9 Cab Height	3220 mm	10'7"
Cab Height with Top Guard	3390 mm	11'1"
10 Counterweight Clearance*	1280 mm	4'2"

*Without shoe lug height.

349F L Hydraulic Excavator Specifications

Working Ranges – Long Undercarriage

All dimensions are approximate.



Heavy-Duty Reach Boom 6.9 m (22'8")

Stick	R3.35TB HD (11'0")	
1 Maximum Digging Depth	7660 mm	25'2"
2 Maximum Reach at Ground Level	11 730 mm	38'6"
3 Maximum Cutting Height	10 820 mm	35'6"
4 Maximum Loading Height	7430 mm	24'5"
5 Minimum Loading Height	2750 mm	9'0"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	7520 mm	24'8"
7 Maximum Vertical Wall Digging Depth	5830 mm	19'2"

349F L Hydraulic Excavator Specifications

Operating Weights and Ground Pressures

	600 mm (24") Double Grouser Shoes			
Long Undercarriage				
Heavy-Duty Reach Boom – 6.9 m (22'8")				
R3.35TB HD (11'0")	48 600 kg	107,100 lb	84 kPa	12.2 psi

Major Component Weights

	kg	lb
Base Machine (with boom cylinder, without counterweight, front linkage and track)		
Long Undercarriage	24 800	54,700
Counterweight		
9.0 mt (9.9 ton)	9000	19,800
Boom (includes lines, pins and stick cylinder)		
Heavy-Duty Reach Boom – 6.9 m (22'8")	4630	10,200
Stick (includes lines, pins, bucket linkage and bucket cylinder)		
R3.35TB HD (11'0")	2540	5,600
Track Shoes (Long Undercarriage/per two tracks)		
600 mm (24") double grouser	5240	11,600
Buckets		
GD – 3.10 m ³ (4.05 yd ³)	2440	5,400

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.

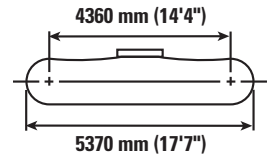
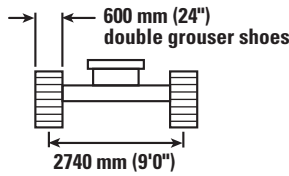
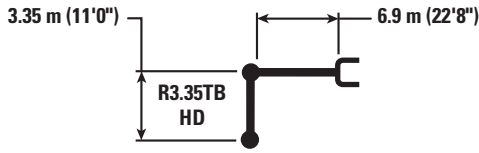
349F L Hydraulic Excavator Specifications
















Bucket and Stick Forces

	Heavy-Duty Reach Boom 6.9 m (22'8")	
Stick	R3.35TB HD (11'0")	
TB Linkage		
General Duty Capacity		
Bucket Digging Force (ISO)	268 kN	60,250 lbf
Stick Digging Force (ISO)	199 kN	44,740 lbf
Bucket Digging Force (SAE)	236 kN	53,050 lbf
Stick Digging Force (SAE)	193 kN	43,390 lbf
Heavy Duty		
Bucket Digging Force (ISO)	268 kN	60,250 lbf
Stick Digging Force (ISO)	201 kN	45,190 lbf
Bucket Digging Force (SAE)	235 kN	52,830 lbf
Stick Digging Force (SAE)	195 kN	43,840 lbf
Severe Duty		
Bucket Digging Force (ISO)	266 kN	59,800 lbf
Stick Digging Force (ISO)	200 kN	44,960 lbf
Bucket Digging Force (SAE)	229 kN	51,480 lbf
Stick Digging Force (SAE)	193 kN	43,390 lbf
Extreme Duty		
Bucket Digging Force (ISO)	266 kN	59,800 lbf
Stick Digging Force (ISO)	200 kN	44,960 lbf
Bucket Digging Force (SAE)	229 kN	51,480 lbf
Stick Digging Force (SAE)	193 kN	43,390 lbf

349F L Hydraulic Excavator Specifications

Reach Boom (Long Undercarriage) Lift Capacities – Counterweight: 9.0 mt (9.9 ton) – 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 360 in	kg lb													*9050 *20,050	*9050 *20,050	7300 290
7500 mm 300 in	kg lb									*11 950 *26,250	11 350 24,350			*8500 *18,750	*8500 *18,750	8480 330
6000 mm 240 in	kg lb									*12 500 *27,300	11 100 23,900	*10 750 8250	8250 17,650	*8350 *18,350	7800 17,350	9270 370
4500 mm 180 in	kg lb					*20 750 *44,500	*20 750 *44,500	*16 000 *34,600	14 950 32,300	*13 600 *29,550	10 700 23,050	*12 250 *26,700	8050 17,350	*8450 *18,550	7050 15,600	9770 390
3000 mm 120 in	kg lb					*25 750 *55,300	21 250 45,850	*18 400 *39,700	14 100 30,400	*14 850 *32,250	10 250 22,100	12 500 26,850	7850 16,850	*8800 *19,300	6650 14,650	10 010 400
1500 mm 60 in	kg lb					*18 600 *44,500	*18 600 43,100	*20 250 *43,800	13 400 28,850	*15 950 34,550	9850 21,200	12 250 26,350	7600 16,350	*9400 *20,700	6500 14,300	10 020 400
0 mm 0 in	kg lb					*20 950 *48,650	19 600 42,100	*21 150 *45,800	12 950 27,900	15 750 33,850	9550 20,550	12 050 25,950	7450 16,000	*10 400 *22,900	6600 14,550	9800 390
-1500 mm -60 in	kg lb			*14 900 *33,650	*14 900 *33,650	*27 700 *60,150	19 550 41,950	*20 950 *45,400	12 750 27,500	15 550 33,500	9400 20,250	12 000 25,800	7350 15,900	11 400 25,150	7050 15,500	9330 370
-3000 mm -120 in	kg lb			*23 850 *53,850	*23 850 *53,850	*25 350 *55,000	19 700 42,350	*19 650 *42,450	12 800 27,600	*15 450 *33,250	9400 20,300			*12 800 *28,150	7950 17,550	8570 340
-4500 mm -180 in	kg lb			*27 400 *59,150	*27 400 *59,150	*21 400 *46,100	20 100 43,250	*16 700 *35,800	13 050 28,150					*12 600 *27,650	9800 21,900	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.

Standard Equipment

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

ENGINE

- Cat C13 ACERT diesel engine
- Biodiesel capable
- Designed to meet Korea 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
- Quick drains, engine and hydraulic oil
- 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
- 2×6 micron main filters
- 1×10 micron primary fuel line filter
- Starting kit, cold weather, -32° C (-26° F)

HYDRAULIC SYSTEM

- Regeneration circuit for boom and stick
- Reverse swing dampening valve
- Automatic swing parking brake
- High-performance hydraulic return filter
- Capability of installing HP stackable valve and medium and QC valve
- Capability of installing additional auxiliary pump (up to 80 L/min [21 gal/min]) and circuit
- Capability of installing boom lowering control device and stick lowering check valve
- Capability of installing Cat Bio hydraulic oil

CAB

- Pressurized operator station with positive filtration
- Mirror package
- Sliding upper door window (left-hand cab door)
- Glass-breaking safety hammer
- Removable lower windshield within cab storage bracket
- Coat hook
- Beverage holder
- Literature holder
- Radio with MP3 auxiliary audio port
- Two stereo speakers
- Storage shelf suitable for lunch or toolbox
- Color LCD display with warning, filter/fluid change, and working hour information
- 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 power outlets, 10 amp (total)
- Laminated glass front upper window and tempered other windows
- Cab hatch emergency exit
- Seat, high-back air suspension with heater
- Sunscreen
- Windshield wiper, lower with washer
- AM/FM radio
- Air pre-filter
- Travel alarm

UNDERCARRIAGE

- Long undercarriage
 - 600 mm (24") double grouser shoes
 - Guard, heavy-duty bottom
 - Full length (two piece) track guiding guard
 - Casting idler
- Towing eye on base frame
- Track motor guards

COUNTERWEIGHT

- 9.0 mt (9.9 ton)

FRONT LINKAGE

- Bucket linkage
 - TB family with lifting eye
- Heavy-duty reach boom
 - R3.35TB (11'0") stick

ELECTRICAL

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

LIGHTS

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

SECURITY

- FOGS, bolt-on
- 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
- Openable skylight for emergency exit
- Rearview camera

TECHNOLOGY

- Product Link

Optional Equipment

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

HYDRAULIC SYSTEM

- Boom and stick lines
- Tool control system

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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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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