349D L

Hydraulic Excavator

Engine		
Engine Model	Cat® C13 ACERT™	
Net Power	283 kW	380 hp

Weight*		
Operating Weight – Long Undercarriage	45 250 kg	99,760 lb

- Mass Excavation Boom, M2.5 (8'2") Mass Excavation Stick, 750 mm (30") Track Shoes, Long, Fixed Gauge Undercarriage, 3.21 m^3 (4.2 yd^3) Severe Duty Bucket

Features

Performance
High performance and rugged durability combine to maximize productivity.

C13 Engine with ACERT™ Technology
ACERT™ Technology works at the point of combustion to optimize engine performance and provide exceptional performance capabilities and proven reliability.

Hydraulics
The hydraulic system has been designed to provide reliability and controllability. An optional tool control system provides enhanced flexibility.

Operator Station
Operators will experience maximum comfort, maximum space, excellent visibility, and easy access to all switches. The monitor is a full-color display that allows the operator to understand the machine information easily.

Work Tools
A variety of work tools, including buckets, couplers, hammers, and shears, is available through Cat® Work Tools.

Versatility
Caterpillar offers many optional and factory-installed attachments to enhance performance and improve job site management.

Undercarriage
Cat designed excavator undercarriage is stable, durable, and low maintenance. Fixed gauge configurations meet lift capacity and bucket size needs.

Contents

Excellent control, high stick and bucket forces, impressive lift capacity, simplified service, and a comfortable operator station increase your productivity and lower operating costs.

C13 Engine with ACERT™ Technology

Built for power, reliability, economy, and low emissions.

Performance

The 349D L is equipped with a 283 kW (380 hp) C13 engine with ACERT™ Technology. ACERT Technology is a differentiated technology that reduces emissions at the point of combustion. The technology capitalizes on Caterpillar's proven leadership in three core engine systems: fuel, air, and electronics.

Fuel System

The Cat® C13 features electronic controls that govern the mechanically actuated unit fuel injection (MEUI) system. MEUI provides the high pressure required to help reduce particulate emissions and deliver better fuel economy through finer fuel atomization and more complete combustion.

ADEM™ A4 Engine Controller

The ADEM™ A4 electronic control module manages fuel delivery to get the best performance per liter or gallon of fuel used. The engine management system provides flexible fuel mapping, allowing the engine to respond quickly to varying application needs. It tracks engine and machine conditions while keeping the engine operating at peak efficiency.

Turbocharger

The Cat C13 uses a wastegate turbocharger for improved performance. The wastegate valve controls excessive engine boost pressure by allowing exhaust to bypass the exhaust-side turbine. The wastegate also reduces turbine wear in high RPM, low-load conditions and optimizes air and fuel delivery for peak engine performance. Also, the turbocharger increases the density of the air, enabling the engine to produce more power with few effects from altitude.

Low Sound and Vibration Levels

Rubber isolating mounts matched with the engine package provide optimum sound and vibration reduction. Further noise reduction is achieved through design changes to the isolated top cover, oil pan, multiple injection technology, insulated timing cover, and sculpted crankcase.

Air Cleaner

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

Cooling System

The cooling fan is hydraulically driven with variable speed control based on the ambient temperature, coolant temperature, and hydraulic oil temperature. This unique feature assists in the management of engine power and improves noise efficiency while providing optimized cooling.

Hydraulics

Cat® hydraulics deliver power and precise control to keep material moving.

Pilot System

The independent pilot pump controls the front linkage, swing, and travel operations. The pilot control valve operation is proportional to lever movement, delivering outstanding controllability.

Component Layout

The component location and hydraulic system design provide the highest level of system efficiency. The main pumps, control valve, and hydraulic tank are located close together, making it possible to use shorter tubes and lines between components to reduce friction losses and pressure drops.

Heavy Lift Standard

The operator can select the heavy lift mode at the push of a button to boost lifting capability and provide improved controllability of heavy loads.

Hydraulic Cross-Sensing System

The hydraulic cross-sensing system utilizes each of two hydraulic pumps to 100 percent of engine power under all operating conditions. This improves productivity with faster implement speeds and quicker, stronger pivot turns.

Boom and Stick Regeneration Circuits

A hydraulically operated stick regeneration circuit saves energy and improves multi-function performance during the stick-in operation. The boom regeneration circuit is operated electrically and is managed by the machine ECM. The system improves cycle times and fuel efficiency, increasing productivity and reducing operating costs.

Boom and Swing Priority

The hydraulic system on the 349D L provides automatic priority function for boom-up and swing operations, eliminating the need for work mode buttons. When the boom or swing lever is activated, the system automatically assigns priority based on operator demand.

Hydraulic Cylinder Snubbers

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

Operator Station

Designed for simple, easy operation, the 349D L allows the operator to focus on production.

Cab Design

The workstation is spacious, quiet, and comfortable, assuring high productivity during a long work day. The air conditioner and attachment switches are conveniently located on the right-hand wall, and the key switch and throttle dial are on the right-hand console. To enhance operator comfort and productivity, the cab includes a drink holder, coat hook, service meter, literature holder, and storage compartment.

Monitor Display Screen

The compact, full-color Liquid Crystal Display (LCD) shows machine maintenance, diagnostic, and prognostic information in 27 languages. The keypad allows the operator to select machine operation conditions and to set view preferences.

Console

The consoles feature a simple, functional design to reduce operator fatigue, ease of switch operation, and excellent visibility. Both consoles have attached armrests with height adjustments.

Controls

Pilot-operated control levers feature a longer vertical stroke to help reduce operator fatigue.

Seat

A high-back, heated air suspension seat allows for a variety of adjustments to suit the operator's size and weight.

Climate Control

Positive filtered ventilation with a pressurized cab comes standard. Fresh air or recirculated air can be selected with a switch on the left console.

Cab Exterior

Thick steel tubing along the bottom perimeter of the cab improves resistance to fatigue and vibration. This design allows the FOGS to be bolted directly to the cab – at the factory or as an attachment later – to enable the machine to meet specifications and job site requirements.

Cab Mounts

The cab shell is attached to the frame with viscous rubber cab mounts, which dampen vibrations and sound levels while enhancing operator comfort.

Windows

The upper front windshield opens, closes, and stores on the roof above the operator with a one-touch action release system. An enlarged skylight with sunshade provides excellent visibility and good ventilation.

Undercarriage

Durable undercarriage absorbs stresses and provides excellent stability.

Undercarriage Options

Track with Positive Pin Retention 2 (PPR2) and cast idlers are available as attachments on the 349D L. The PPR2 prevents loosening of the track pin from the track link, and the cast idler is designed for extended life. Both options are ideal for extreme applications or those that require a large amount of travel.

Travel Motors

Two-speed hydraulic motors provide the 349D L drive power and speed selection. When the high-speed position is selected, the machine automatically changes between computer-controlled high and low speeds depending on drawbar pull requirements.

Straight-line Travel Circuit

The straight-line travel circuit is incorporated into the hydraulic system, which maintains low-speed, straight-line travel – even when operating the front linkage.

Final Drive

The three-stage final drive is a complete and compact drive/brake unit that delivers excellent performance and reliability.

Track

The 349D L comes standard with a grease-lubricated track called GLT4. The track links are assembled and sealed with grease to decrease internal bushing wear, reduce travel noise, and lower operating costs by extending service life. The track link for the 349D L has been redesigned to avoid the concentration of stresses and improve durability and reliability.

Track Guards

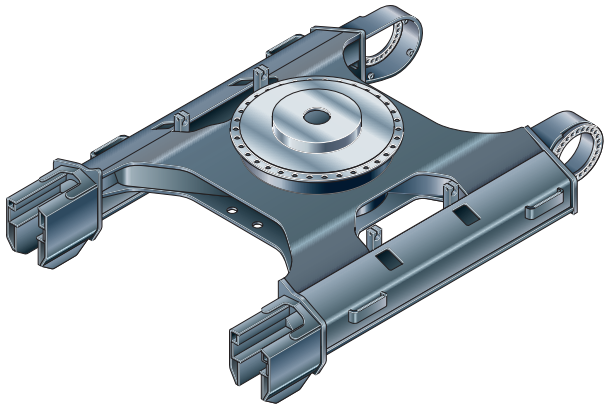
The idler guard and bolt-on center guard are standard equipment. They help maintain track alignment while traveling or working on slopes. For applications that require additional track protection or alignment, optional guards are available.

Structures

The 349D L structural components are the backbone of the machine's durability.

Carbody

The 349D L has one undercarriage option to meet regional transportation requirements and application need: Fixed gauge for narrow transport and weight-sensitive areas. The carbody utilizes a columnless design that allows the swing bearing to be directly mounted on the top plate for excellent rigidity and strength.

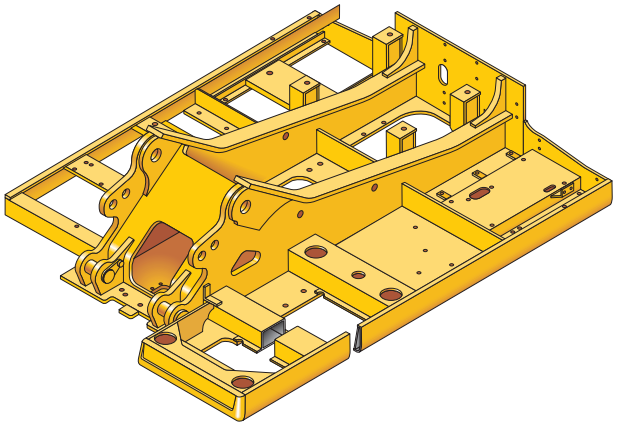


Upper Frame

The rugged main frame is designed for maximum durability. Robot welding is used for consistent high-quality welds. The main channels are box sections connected by a large diameter tube in the boom foot area to improve rigidity and strength. The outer frame utilizes curved side rails for rigidity against bending and torsional loads.

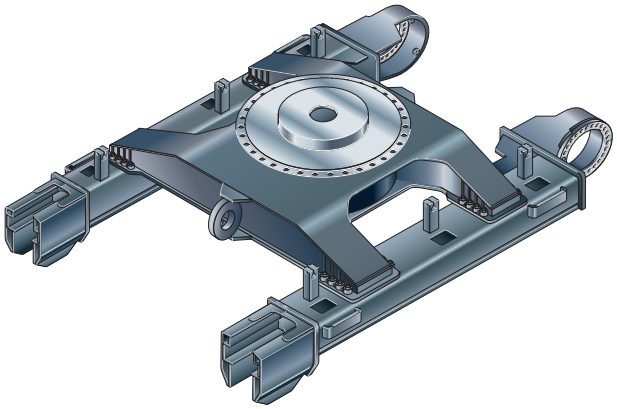
Counterweights

The 349D L has several counterweight options to best match the machine to specific applications. A counterweight removal device is available for the 8.7 mt (19,180 lb) counterweight to facilitate transport when needed.



Track Roller Frame

Fixed gauge undercarriage uses a press-formed, pentagonal section for the track frame that is robot welded for consistency and quality. The track frame has been designed so that the top of the track frame has a steep angle to help prevent accumulation of mud and debris.



Applications & Systems Match

The 349D L is designed for matched performance with Cat articulated trucks.

Front End Attachment Versatility

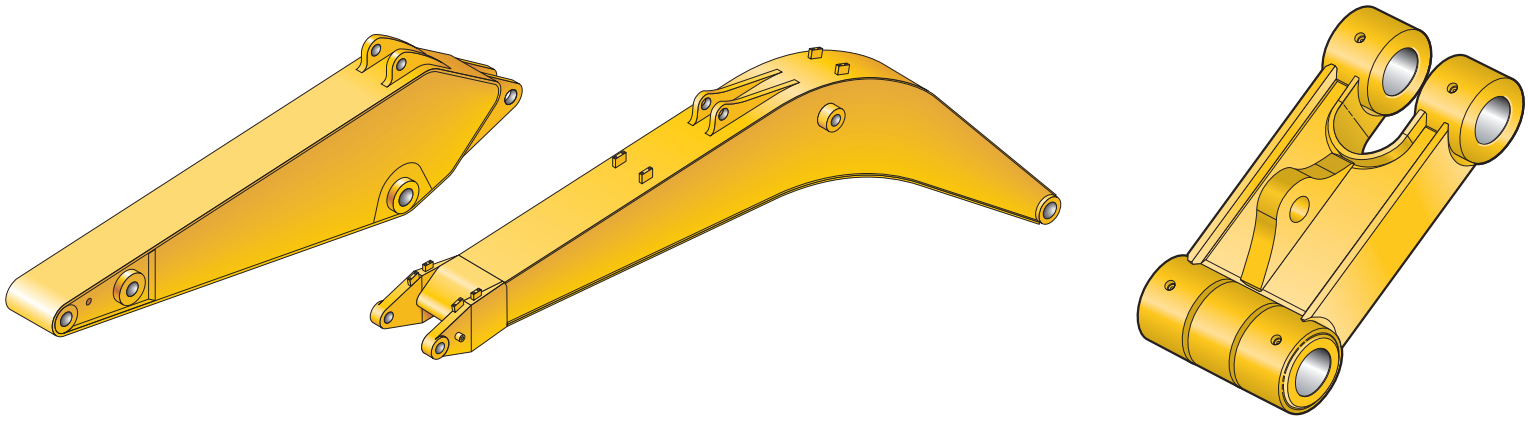
The ability to select different front end attachments provides adaptability for a wide range of job conditions in a variety of applications such as construction, mining, or quarry. Depending on the configuration and material density, the 349D L can be matched with the 730 to 740 articulated trucks. Additionally, systems match offers versatility in job setup whether top loading or same-level truck loading.

Optimum Pass Match Design

Matched with the Cat 735, the 349D can load the truck in five to six passes under two minutes, delivering maximum system production at the lowest cost per ton of material moved.

Maximum Availability

New standards for durability and reliability help ensure that your loading system has more uptime, operates efficiently, and provides lasting value and high resale.



Boom, Sticks & Attachments

Designed for maximum flexibility to keep productivity and efficiency high on all jobs.

Front Linkage Attachments

Two booms and four sticks are available, offering a range of configurations suitable for a wide variety of application conditions.

Boom Construction

The 349D L booms have large cross sections and internal baffle plates to provide long life and durability. Forged steel is used in critical high-load areas such as the boom foot and boom cylinder connection.

HD Reach Boom – 6.9 m (22'8") Long

The HD reach boom is designed to balance reach, digging force, and bucket capacity, making it ideal for a wide range of applications.

Mass Excavation Boom – 6.55 m (21'6") Long

The mass boom is designed to provide maximum digging forces, bucket capacity, and truck loading productivity. The mass boom comes with two stick options for further job site versatility.

Stick Construction

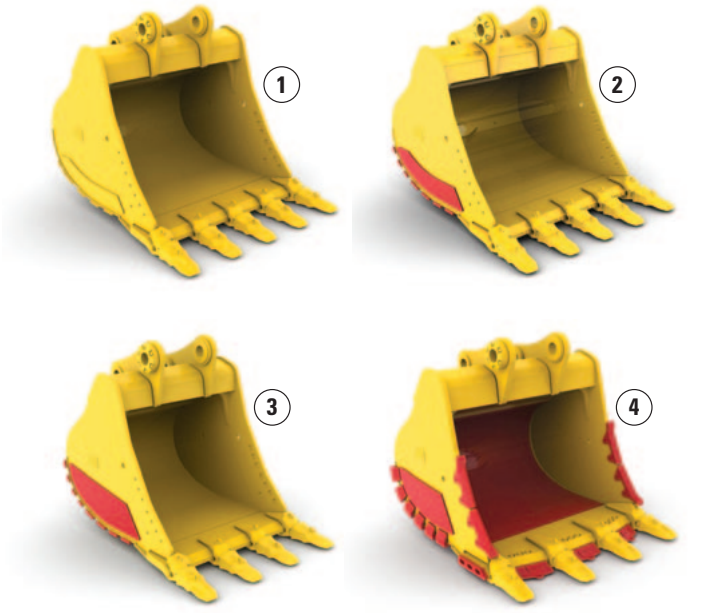
The 349D L sticks are made of high-tensile-strength steel using a large box-section design, interior baffle plates, and an additional bottom guard.

Power Link

The 349D L power link improves durability, increases machine lifting capability in key lifting positions, and is easier to use compared to the previous lift bar designs.

Work Tools

Dig, hammer, rip, and cut with confidence.



Work Tools

An extensive range of Cat Work Tools for the 349D L includes buckets, hydraulic hammers, multi-processors, scrap and demolition shears, contractors' grapples and rippers. Each is designed to optimize the versatility and performance of your machine.

Buckets

Next Generation Cat buckets are designed as an integral part of the 349D system and feature new geometry for better performance. The leading edge has been pushed forward, resulting in more efficient filling and better operator control for greatly improved productivity. Wear coverage, side cutter and sidebar protector coverage are improved.

Four standard bucket categories are available. Each is based on intended bucket durability when used in recommended application and material.

General Duty (GD)

GD buckets are for digging in low-impact, low-abrasion material such as dirt, loam, and mixed compositions of dirt and fine gravel.

Heavy Duty (HD)

The most popular bucket style, HD buckets are a good choice when digging conditions are not well known. They are for digging in a wide range of impact and abrasion conditions including mixed dirt, clay, and rock.

Severe Duty (SD)

SD buckets are for higher abrasion conditions such as well shot granite and caliche.

Extreme Duty (XD)

XD buckets are the new standard for high-abrasion conditions, including high quartzite granite.

Couplers

Quick couplers allow one person to change work tools in seconds for maximum performance and flexibility on a job site. One machine can move rapidly from task to task, and a fleet of similarly equipped machines can share a common work tool inventory. The dedicated coupler engages tools equipped with dedicated coupler hooks. Tip radius of dedicated coupler buckets is identical to pin on buckets. Full breakout force is available at all times.

Hydraulic Kits

Cat offers field-installed hydraulic kits that are uniquely designed to integrate Cat Work Tools with Cat excavators. Hoses and tubes are pre-made, pre-shaped, and pre-painted to make installation quick and easy.

1) General Duty 2) Heavy Duty 3) Severe Duty 4) Extreme Duty

Safety

Cat machines are designed to keep operators and job sites safe.

Visibility

An optional rear vision camera and work area vision system can be installed to improve safety for the operator as well as other machines and personnel working around the excavator.

Safe Access

Handrails and anti-slip surfaces are designed for safe access on and off Cat machines. Daily maintenance service checks are easily accessible at ground level. An emergency escape is accessed through the rear window.

Safety Alarm

If an abnormality occurs, the warning information window is displayed on the monitor. If the abnormality is urgent, the master light blinks and an alarm activates, alerting the operator to take immediate action.

Environment

Caterpillar's investments in technology, products, and services reduce the impact of earthmoving equipment on the environment.

Emissions

With ACERT Technology to lower emissions, the C13 engine improves maintenance costs through less engine wear and less oil consumption. This engine can use up to B30 biodiesel to further reduce emissions on the job site.

Fuel Management

A fuel consumption display allows the operator to monitor their fuel consumption. Three power management modes allow the operator to select a mode for optimal performance with lower fuel consumption.

Fluids

Extended service and maintenance intervals increase machine availability and reduce the frequency of fluid handling. Cat biodegradable hydraulic oil is fully decomposed by soil or water microorganisms for a cleaner job site.

Cat Reman Parts

Cat Reman parts offer the same performance and quality as new parts at a fraction of the cost. Environmentally reconditioned reman parts are available for this machine.

Versatility

Many optional and factory-installed attachments are available to enhance performance and improve job site management.

Tool Control System

The optional tool control system maximizes work tool productivity by configuring hydraulic flow, pressure, and operator controls to match a specific work tool. System versatility enables a wide range of tools to be used.

Auxiliary Hydraulic Valve

A hydraulically controlled auxiliary valve is standard on the 349D L. Control circuits are available as attachments, allowing operation of high- and medium-pressure tools such as shears, grapples, hammers, pulverizers, multi-processors, and vibratory plate compactors.

Product Link

Product Link is now standard on the 349D L. The optional levels of service, including Asset Watch, Maintenance Watch, and Health Watch, allow you to monitor and maintain your equipment for the lowest operating cost.

Control Levers

Three types of tool controls are available to meet the operator's individual preference.

- Foot Pedal – The hydraulic modulated foot pedal is used in conjunction with the hydraulic controller.
- Foot Switch – The electric on/off switch pedal is used in conjunction with either the hydraulic controller or attachment controller. The foot switch is located on cab floor.
- Tool Controller Joystick – Two types of the tool controller joysticks are available. The joystick with the modulation switch has two on/off switches, one trigger switch, and one modulation switch. The joystick without the modulation switch has three on/off switches and one trigger switch.

Machine Security

An optional Machine Security System is available from the factory on the 349D L. This system controls when the machine can be operated and utilizes specific keys to prevent unauthorized machine use – a significant theft deterrent.

Service & Maintenance

Simplified service and maintenance save you time and money.

Extended Service Intervals

Extended service and maintenance intervals increase machine availability. The maintenance intervals for engine oil and engine oil filter have been extended to 500 hours.

Capsule Filter

The hydraulic return filters are located in the hydraulic tank. The filter elements are removable without spilling hydraulic oil.

Pilot Hydraulic System Filter

The pilot hydraulic system filter keeps contaminants from the pilot system and is located in the pump compartment.

Radial Seal Main Air Cleaner

The radial seal main air cleaner with precleaner has a double-layered filter element for more efficient filtration. No tools are required to change the element.

Fuel-Water Separator

The water separator has a primary fuel filter element and is located in the battery compartment for easy access from the ground.

Service Points

Service points are centrally located with easy access to facilitate routine maintenance.

Oil Sample and Pressure Ports

Oil sample and pressure ports provide easy checking of machine condition and are standard on every machine.

Greasing Points

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

Complete Customer Support

Cat dealer services help you operate longer with lower costs.

Product Support

Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine downtime. You can also save money with Cat remanufactured components.

Machine Selection

Make detailed comparisons of the machines you are considering before you buy. What are the job requirements, machine attachments, and operating hours? What production is needed? Your Cat dealer can provide recommendations.

Purchase

Look past initial price. Consider the financing options available as well as day-to-day operating costs. This is also the time to look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.

Customer Support Agreements

Cat dealers offer a variety of product support agreements and work with customers to develop a plan that best meets specific needs. These plans can cover the entire machine, including attachments, to help protect your investment.

Operation

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

Maintenance Services

Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as scheduled oil sampling, coolant sampling, and technical analysis help you avoid unscheduled repairs.

Replacement

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

Engine

Engine Model	Cat® C13 ACERT™	
Net Power – ISO 9249	283 kW	380 hp
Net Power – SAE J1349	283 kW	380 hp
Gross Power – SAE J1995	305 kW	409 hp
Bore	130 mm	5.1 in
Stroke	157 mm	6.2 in
Displacement	12.5 L	763 in^3
Cylinders	6	

- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- No engine derating needed up to 2300 m (7,500 ft).

Weights

Operating Weight – Long Undercarriage	45 250 kg	99,760 lb

- Mass Excavation Boom, M2.5 (8'2") Mass Excavation Stick, 750 mm (30") Track Shoes, Long, Fixed Gauge Undercarriage, 3.21 m^3 (4.2 yd^3) Severe Duty Bucket

Swing Mechanism

Swing Speed	8.7 rpm	
Swing Torque	148.5 kN·m	109,560 lb ft

Drive

Maximum Travel Speed	4.5 km/h	2.8 mph
Maximum Drawbar Pull – Long Undercarriage	337.7 kN	75,920 lb

Service Refill Capacities

Fuel Tank Capacity	705 L	186 gal
Cooling System	35.5 L	9.4 gal
Engine Oil	42 L	11 gal
Swing Drive (each)	10 L	2.6 gal
Final Drive (each)	15 L	4 gal
Hydraulic System (including tank)	570 L	150 gal
Hydraulic Tank	243 L	64 gal

Hydraulic System

Main System – Maximum Flow (Total)	734 L/min	194 gal/min
Maximum Pressure – Equipment – Normal	35 000 kPa	5,080 psi
Maximum Pressure – Equipment – Heavy Lift	38 000 kPa	5,511 psi
Maximum Pressure – Travel	35 000 kPa	5,080 psi
Maximum Pressure – Swing	31 400 kPa	4,550 psi
Pilot System – Maximum Flow	43 L/min	11 gal/min
Pilot System – Maximum Pressure	4110 kPa	596 psi
Boom Cylinder – Bore	160 mm	6.3 in
Boom Cylinder – Stroke	1575 mm	62 in
Stick Cylinder – Bore	190 mm	7.5 in
Stick Cylinder – Stroke (for Long Reach and Reach fronts)	1778 mm	70 in
Stick Cylinder – Stroke (for Mass Excavation fronts)	1758 mm	69.2 in
TB Family Bucket Cylinder – Bore	160 mm	6.3 in
TB Family Bucket Cylinder – Stroke	1356 mm	53.4 in
UB Family Bucket Cylinder – Bore	170 mm	6.7 in
UB Family Bucket Cylinder – Stroke	1396 mm	55 in
Main Normal Relief Pressure	35 000 kPa	5,080 psi

Sound Performance

Performance	ANSI/SAE J1166 MAY90 Meets OSHA and MSHA Requirements

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

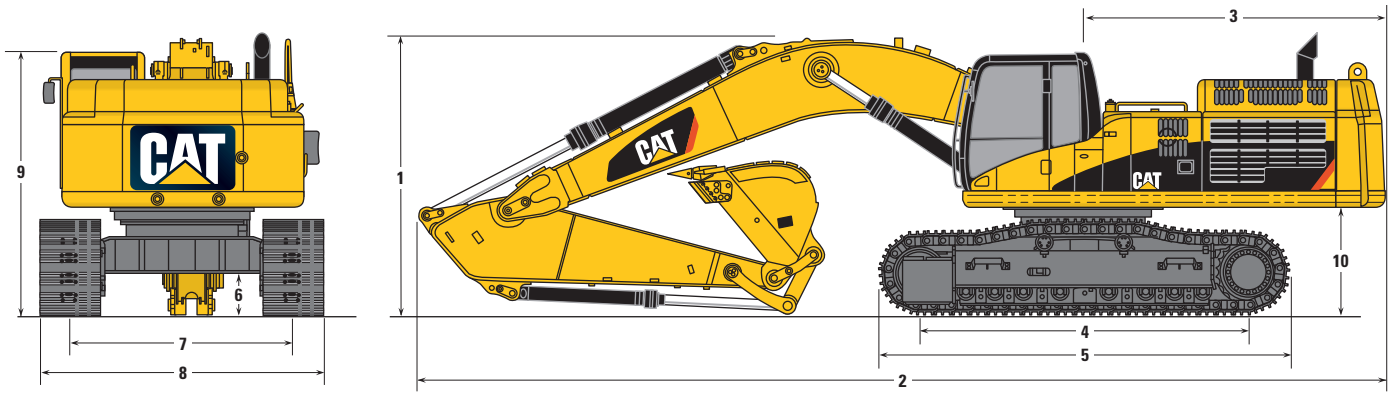
Standards

Brakes	SAE J1026 APR90
Cab/FOGS	SAE J1356 FEB 88 and ISO 10262-1998

349D L Hydraulic Excavator Specifications

Dimensions

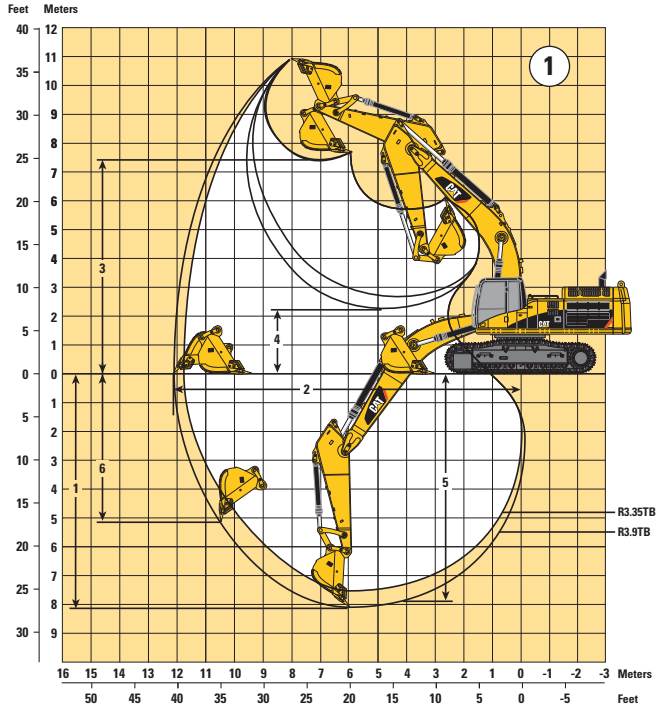
All dimensions are approximate.

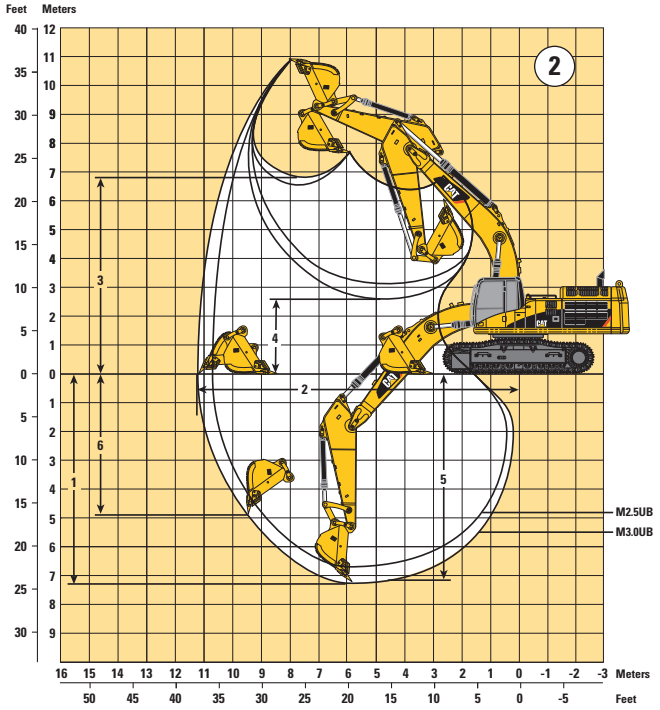


Boom	HD Reach Boom 6.9 m (22'8")		Mass Boom 6.55 m (21'6")	
Stick	**R3.9TB (12'10")**	**R3.35TB (11'0")**	**M3.0UB (9'10")**	**M2.5UB (8'2")**
1 Shipping Height	3660 mm (12'0")	3690 mm (12'1")	4020 mm (13'2")	3960 mm (13'0")
2 Shipping Length	11 950 mm (39'2")	11 940 mm (39'2")	11 640 mm (38'2")	11 710 mm (38'5")
3 Tail Swing Radius	3770 mm (12'4")	3770 mm (12'4")	3770 mm (12'4")	3770 mm (12'4")
Undercarriage				
4 Length to Center of Rollers	4360 mm (14'4")			
5 Track Length	5360 mm (17'7")			
6 Ground Clearance	510 mm (1'8")			
7 Track Gauge	2740 mm (9'0")			
8 Track Width*	3640 mm (11'11")			
9 Cab Height	3210 mm (10'6")			
10 Counterweight Height (to bottom)	1320 mm (4'4")			

* Track width shown is for 900 mm (36") track shoes. Subtract 150 mm (6") for 750 mm (30") track shoes.

Working Ranges





349D L Working Ranges – Long Fixed Gauge Undercarriage

	① HD Reach Working Ranges		② Mass Working Ranges	
	HD Reach Boom		Mass Excavation Boom	
Stick	**R3.9TB (12'10")**	**R3.35TB (11'0")**	**M3.0UB (9'10")**	**M2.5UB (8'2")**
Bucket	**GP-C 1.8 m³ GP-C 2.36 yd³**	**GP-C 1.8 m³ GP-C 2.36 yd³**	**HD 3.11 m³ HD 4.07 yd³**	**HD 3.11 m³ HD 4.07 yd³**
1 Maximum Digging Depth	8200 mm (26'11")	7650 mm (25'1")	7200 mm (23'7")	6700 mm (22'0")
2 Maximum Reach at Ground Level	12 120 mm (39'9")	11 710 mm (38'5")	11 160 mm (36'7")	10 700 mm (35'1")
3 Maximum Loading Height	7410 mm (24'4")	7420 mm (24'4")	6830 mm (22'5")	6640 mm (21'9")
4 Minimum Loading Height	2200 mm (7'3")	2750 mm (9'0")	2670 mm (8'10")	3170 mm (10'5")
5 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	8070 mm (26'6")	7500 mm (24'7")	7050 mm (23'1")	6530 mm (21'5")
6 Maximum Vertical Wall Digging Depth	5300 mm (17'4")	5210 mm (17'1")	4660 mm (15'3")	4220 mm (13'10")

349D L Working Ranges with Pin Grabber Coupler – Long Fixed Gauge Undercarriage

	Mass Excavation Boom
Stick	**M2.5UB (8'2")**
Bucket	**SD 3.2 m³ SD 4.2 yd³**
1 Maximum Digging Depth	6790 mm (22'3")
2 Maximum Reach at Ground Level	10 990 mm (36'0")
3 Maximum Loading Height	6750 mm (22'1")
4 Minimum Loading Height	3090 mm (10'1")
5 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6610 mm (21'8")
6 Maximum Vertical Wall Digging Depth	4980 mm (16'4")

349D L Hydraulic Excavator Specifications

Operating Weight*

	kg	lb
Complete Machine Equipped with:		
Mass Boom, M2.5 (8'2") Stick, 3.21 m^3 (4.2 yd^3) Severe Duty Bucket, 750 mm (30") Track Shoes, 9.0 MT Counterweight without Removal Device	45 250	99,760
Differences for Other Booms:		
6.9 m (22'8") HD Reach Boom	–10	–20
Differences for Other Sticks:		
R3.9m (12'10") Stick with TB Bucket Linkage and Bucket Cylinder	–250	–550
R3.35m (11'0") Stick with TB Bucket Linkage and Bucket Cylinder	–315	–695
M3.0m (9'10") Stick with UB Bucket Linkage and Bucket Cylinder	+180	+395

	kg	lb
Differences for Other Buckets:		
See Bucket Specification Chart		
Differences for Other Track Shoes:		
600 mm (24") Double Grouser (DG)	–645	–1,420
900 mm (36") Triple Grouser (TG)	+660	+1,455
Differences for Other Counterweights:		
7.6 MT Counterweight without Removal Device	–1395	–3,080
8.7 MT Counterweight with Removal Device	+20	+35

* All weights are approximate. Operating weight includes 15% full fuel tank.
Add 520 kg (1,140 lb) for full fuel tank and 75 kg (165 lb) for an average operator.

349D L Bucket and Stick Forces

Reach Boom		**R3.9 (12'10")**				**R3.35 (11'0")**			
		Stick Forces		**Bucket Forces**		**Stick Forces**		**Bucket Forces**	
		kN	lbf	kN	lbf	kN	lbf	kN	lbf
Severe Duty (SD)	(ISO)	183	41,200	262	58,800	200	44,900	262	58,800
	(SAE)	177	39,900	224	50,400	192	43,200	224	50,400
Severe Duty Power (SDP)	(ISO)	188	42,200	181	40,700	205	46,100	293	65,800
	(SAE)	293	65,800	248	55,700	197	44,300	248	55,700

Mass Boom		**M3.0 (9'10")**				**M2.5 (8'2")**			
		Stick Forces		**Bucket Forces**		**Stick Forces**		**Bucket Forces**	
		kN	lbf	kN	lbf	kN	lbf	kN	lbf
Severe Duty (SD)	(ISO)	212	47,600	293	65,800	240	53,900	293	65,800
	(SAE)	204	45,800	254	57,100	230	51,600	254	57,100
Extreme Duty (XD)	(ISO)	211	47,500	292	65,600	240	53,900	292	65,600
	(SAE)	204	45,800	253	56,900	229	51,600	253	56,900
Severe Duty (SD) with Quick Coupler (CW55)	(ISO)	192	43,100	229	51,500	215	48,300	229	51,500
	(SAE)	206	46,300	262	59,000	232	52,200	262	59,000

349D L Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	ME Boom		Reach Boom (HD)	
		mm	in	m^3	yd^3	kg	lb	%	M2.5	M3.0	R3.35	R3.9
Without Quick Coupler												
Severe Duty (SD)	TB	1550	61	2.14	2.80	2340	5,157	90%			●	◉
	UB	1850	73	3.21	4.20	2987	6,583	90%	⊖	○		
Severe Duty Power (SDP)	TB	1750	70	2.40	3.14	2454	5,409	90%			◉	⊖
Extreme Duty (XD)	UB	1550	62	2.61	3.41	3142	6,925	90%	⊖	○		
				Maximum load pin-on (payload + bucket)				kg	7480	6770	6520	6080
								lb	16,486	14,921	14,370	13,400
With Quick Coupler (CW55)												
Severe Duty (SD)	UB	1650	65	2.77	3.62	2655	5,852	90%	⊖	○		
				Maximum load with coupler (payload + bucket)				kg	6640	5930	5760	5320
								lb	14,635	13,070	12,695	11,725

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/m^3 (3,500 lb/yd^3)
- ◉ 1800 kg/m^3 (3,000 lb/yd^3)
- ⊖ 1500 kg/m^3 (2,500 lb/yd^3)
- ○ 1200 kg/m^3 (2,000 lb/yd^3)

Work Tool Matching Guide

Boom Options		**HD Reach Boom R6.9**	
Stick Options	**R3.9TB**	**R3.35TB**	**Boom Mounted**
Tools:			
Contractor's Grapple	G145B	G145B	—
Dedicated Quick Coupler	Yes	Yes	—
Hydraulic Hammer	H160D S/H180D S	H160D S/H180D S	—
Shear	S340	S340	S365B
Scrap & Demolition Shear	S340B	S340B	S365C
Multi-Processor	MP30	MP30	—
Pin-Grabber Quick Coupler	Yes	Yes	—
Ripper Tooth	Yes	Yes	—

349D L Hydraulic Excavator Specifications

HD Reach Boom Lift Capacities

 Load Point Height

 Load Radius Over Front

 Load Radius Over Side

 Load at Maximum Reach

Boom – HD Reach 6.9 m (22'8")
Stick – R3.9 m (12'10")

Bucket – SDP 2.4 m³ (3.14 yd³)
Shoes – 900 mm (36") triple grouser

Undercarriage – Long – fixed gauge
Counterweight – 9000 kg (19,842 lb)

		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		10.5 m (35.0 ft)				
																m ft
9.0 m **30.0 ft**	kg **lb**													*4450 ***9,750**	*4450 ***9,750**	8.95 **29.03**
7.5 m **25.0 ft**	kg **lb**									*7100 ***14,450**	6900 ***14,450**			*4400 ***9,700**	*4400 ***9,700**	9.84 **32.09**
6.0 m **20.0 ft**	kg **lb**									*7550 ***16,400**	6600 **14,100**			*4550 ***10,000**	*4550 ***10,000**	10.41 **34.07**
4.5 m **15.0 ft**	kg **lb**							*9150 ***19,800**	9150 **19,600**	*8100 ***17,550**	6350 **13,550**	*6100 ***15,150**	4500 **9,400**	*4850 ***10,650**	4250 **9,400**	10.74 **35.19**
3.0 m **10.0 ft**	kg **lb**			*19 650 ***41,950**	*19 650 ***41,950**	*13 400 ***28,850**	12 650 **27,200**	*10 450 ***22,600**	8600 **18,400**	*8800 ***19,000**	6050 **12,950**	*7700 ***14,750**	4300 **9,150**	*5350 ***11,700**	4000 **8,750**	10.84 **35.57**
1.5 m **5.0 ft**	kg **lb**			***33,900**	***33,900**	*15 600 ***33,550**	11 650 **25,100**	*11 700 ***25,250**	8050 **17,250**	*9500 ***20,500**	5750 **12,300**	7800 **16,600**	4150 **8,800**	*5800 ***12,700**	3800 **8,350**	10.90 **35.77**
Ground Line	kg **lb**			*14 200 ***33,600**	*14 200 ***33,600**	*16 800 ***36,250**	11 050 **23,700**	*12 600 ***27,150**	7650 **16,400**	*9950 ***21,500**	5500 **11,750**	7650 ***16,100**	4050 **8,550**	*6450 ***14,150**	3850 **8,400**	10.75 **35.26**
–1.5 m **–5.0 ft**	kg **lb**	*8800 ***20,100**	*8800 ***20,100**	*20 450 ***47,450**	17 450 **37,450**	*16 950 ***36,650**	10 750 **23,100**	*12 850 ***27,700**	7400 **15,850**	9900 **21,200**	5350 **11,400**			*7450 ***16,450**	4100 **8,950**	10.36 **33.97**
–3.0 m **–10.0 ft**	kg **lb**	*17 300 ***39,250**	*17 300 ***39,250**	*21 400 ***46,400**	17 600 **37,700**	*16 150 ***34,800**	10 700 **23,000**	*12 350 ***26,600**	7350 **15,700**	*9500 ***20,300**	5300 **11,350**			*8200 ***18,100**	4650 **10,250**	9.71 **31.79**
–4.5 m **–15.0 ft**	kg **lb**	*23 800 ***51,400**	*23 800 ***51,400**	*18 400 ***39,650**	17 950 **38,450**	*14 200 ***30,450**	10 900 **23,350**	*10 850 ***23,050**	7450 **15,950**					*8200 ***18,000**	5750 **12,800**	8.75 **28.51**
–6.0 m **–20.0 ft**	kg **lb**			*13 600 ***28,700**	*13 600 ***28,700**	*10 500 ***22,000**	*10 500 ***22,000**							*7550 ***16,500**	*7550 ***16,500**	7.31 **23.60**

* 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. All lifts with heavy lift on.

Boom – HD Reach 6.9 m (22'8")
Stick – R3.4 m (11'2")

Bucket – SDP 2.4 m³ (3.14 yd³)
Shoes – 900 mm (36") triple grouser

Undercarriage – Long – fixed gauge
Counterweight – 9000 kg (19,842 lb)

		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)				
														m ft
9.0 m **30.0 ft**	kg **lb**											*4500 ***9,700**	*4500 ***9,700**	8.47 **27.42**
7.5 m **25.0 ft**	kg **lb**											*5000 ***10,950**	*5000 ***10,950**	9.41 **30.68**
6.0 m **20.0 ft**	kg **lb**							*8900 ***19,350**	*8900 ***19,350**	*8150 ***17,800**	6550 **14,000**	*5150 ***11,250**	*5150 ***11,250**	10.01 **32.75**
4.5 m **15.0 ft**	kg **lb**					*12 050 ***25,950**	*12 050 ***25,950**	*9900 ***21,450**	9000 **19,350**	*8650 ***18,850**	6300 **13,450**	*5450 ***12,000**	4650 **10,250**	10.35 **33.91**
3.0 m **10.0 ft**	kg **lb**					*14 500 ***31,100**	12 400 **26,700**	*11 150 ***24,100**	8500 **18,250**	*9300 ***20,150**	6050 **12,900**	*6000 ***13,200**	4350 **9,600**	10.46 **34.30**
1.5 m **5.0 ft**	kg **lb**					*16 400 ***35,300**	11 550 **24,850**	*12 250 ***26,450**	8050 **17,250**	*9900 ***21,400**	5800 **12,350**	*6500 ***14,300**	4200 **9,250**	10.49 **34.42**
Ground Line	kg **lb**			***23,650**	***23,650**	*17 200 ***37,150**	11 100 **23,800**	*12 950 ***27,900**	7700 **16,500**	10 150 **21,700**	5550 **11,900**	*7200 ***15,850**	4250 **9,350**	10.33 **33.88**
–1.5 m **–5.0 ft**	kg **lb**			*19 200 ***44,850**	17 800 **38,100**	*16 950 ***36,650**	10 900 **23,400**	*12 950 ***27,900**	7500 **16,100**	10 000 **21,450**	5450 **11,650**	*8300 ***18,250**	4550 **10,050**	9.93 **32.53**
–3.0 m **–10.0 ft**	kg **lb**	*18 150 ***41,450**	*18 150 ***41,450**	*20 250 ***43,950**	18 000 **38,550**	*15 700 ***33,950**	10 950 **23,500**	*12 150 ***26,050**	7500 **16,100**	*9150	5500	*8550 ***18,850**	5250 **11,650**	9.25 **30.25**
–4.5 m **–15.0 ft**	kg **lb**			*16 750 ***36,100**	*16 750 ***36,100**	*13 250 ***28,400**	11 200 **24,000**	*10 000 ***21,100**	7700 **16,550**			*8250 ***18,100**	6650 **14,850**	8.22 **26.76**
–6.0 m **–20.0 ft**	kg **lb**					*8550	*8550					*7850	*7850	6.31

* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load.

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

HD Reach Boom Lift Capacities

 Load Point Height

 Load Radius Over Front

 Load Radius Over Side

 Load at Maximum Reach

Boom – HD Reach 6.9 m (22'8")
Stick – R3.9 m (12'10")

Bucket – SDP 2.4 m³ (3.24 yd³)
Shoes – 900 mm (36") triple grouser

Undercarriage – Long – fixed gauge
Counterweight – 7600 kg (16,760 lb)

		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		10.5 m (35.0 ft)				
																m ft
9.0 m **30.0 ft**	kg **lb**													*5500 ***12,150**	*5500 ***12,150**	8.60 **27.80**
7.5 m **25.0 ft**	kg **lb**									*7850 ***15,950**	6700 **14,250**			*5200 ***11,500**	*5200 ***11,500**	9.68 **31.52**
6.0 m **20.0 ft**	kg **lb**									*8200 ***17,850**	6550 **13,950**			*5150 ***11,350**	4750 **10,550**	10.41 **34.02**
4.5 m **15.0 ft**	kg **lb**							*10 000 ***21,600**	8750 **18,800**	*8800 ***19,150**	6250 **13,350**	*7500 ***14,250**	4550 **9,650**	*5300 ***11,600**	4200 **9,250**	10.86 **35.59**
3.0 m **10.0 ft**	kg **lb**			***45,900**	**39,050**	*14 550 ***31,300**	11 700 **25,250**	*11 350 ***24,550**	8200 **17,550**	*9550 ***20,700**	5900 **12,650**	7850 **16,800**	4350 **9,300**	*5550 ***12,200**	3900 **8,550**	11.08 **36.34**
1.5 m **5.0 ft**	kg **lb**					*16 600 ***35,750**	10 800 **23,250**	*12 600 ***27,200**	7650 **16,400**	10 000 **21,450**	5600 **12,000**	7650 **16,400**	4200 **8,900**	*6000 ***13,150**	3750 **8,250**	11.08 **36.34**
Ground Line	kg **lb**			*15 650 ***36,800**	*15 650 **34,650**	*17 550 ***37,900**	10 250 **22,050**	13 100 **28,100**	7250 **15,550**	9750 **20,850**	5350 **11,500**	7500 **16,100**	4050 **8,650**	*6650 ***14,650**	3800 **8,400**	10.85 **35.60**
–1.5 m **–5.0 ft**	kg **lb**	*10 350 ***23,600**	*10 350 ***23,600**	*20 350 ***44,850**	16 100 **34,550**	*17 400 ***37,700**	10 050 **21,600**	12 850 **27,600**	7050 **15,100**	9550 **20,550**	5250 **11,200**			7600 **16,750**	4100 **9,000**	10.39 **34.06**
–3.0 m **–10.0 ft**	kg **lb**	*19 850 ***45,050**	*19 850 ***45,050**	*21 100 ***45,800**	16 300 **34,950**	*16 300 ***35,250**	10 050 **21,600**	*12 750 ***27,500**	7000 **15,050**	9550 **20,550**	5200 **11,200**			8550 **18,950**	4650 **10,300**	9.67 **31.64**
–4.5 m **–15.0 ft**	kg **lb**	*20 400 ***44,600**	*20 400 ***44,600**	*17 750 ***38,200**	16 700 **35,800**	*14 050 ***30,150**	10 300 **22,100**	*10 950 ***23,300**	7200 **15,450**					*8600 ***18,950**	5800 **12,900**	8.62 **28.07**
–6.0 m **–20.0 ft**	kg **lb**					*9850 ***20,400**	*9850 ***20,400**							*7650 ***16,600**	*7650 ***16,600**	7.03 **22.65**

* 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. All lifts with heavy lift on.

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

349D L Hydraulic Excavator Specifications

Mass Boom Lift Capacities

 Load Point Height

 Load Radius Over Front

 Load Radius Over Side

 Load at Maximum Reach

Boom – Mass 6.55 m (21'6")
Stick – M2.5 (8'2")
Bucket – SD 3.21 m³ (4.2 yd³)
Shoes – 750 mm (30") triple grouser
Undercarriage – Long – fixed gauge
Counterweight – 9000 kg (19,842 lb)

		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)				
												m ft
7.5 m **25.0 ft**	kg **lb**					*9350	8900			*7950 ***17,450**	7750 ***17,450**	8.00 **26.01**
6.0 m **20.0 ft**	kg **lb**					*9700 ***2,1100**	8650 **18,550**			*8250 ***18,150**	6300 **14,000**	8.71 **28.41**
4.5 m **15.0 ft**	kg **lb**			*13 250 ***28,450**	12 300 **26,450**	*10 600 ***22,950**	8250 **17,650**			*8350 ***18,350**	5300 **11,700**	9.27 **30.34**
3.0 m **10.0 ft**	kg **lb**			*15 600 ***33,400**	11 200 **24,150**	*11 700 ***25,200**	7750 **16,600**	*9650 ***20,850**	5450 **11,550**	*8750 ***19,200**	4800 **10,550**	9.54 **31.27**
1.5 m **5.0 ft**	kg **lb**			*16 750 ***36,150**	10 550 **22,700**	*12 500 ***26,950**	7300 **15,650**	9700 **20,750**	5200 **11,100**	8700 **19,200**	4600 **10,150**	9.54 **31.31**
Ground Line	kg **lb**			*16 650 ***36,000**	10 300 **22,150**	*12 650 ***27,300**	7050 **15,150**			9050 **19,900**	4800 **10,550**	9.29 **30.47**
–1.5 m **–5.0 ft**	kg **lb**	*19 800 ***43,100**	17 450 **37,350**	*15 450 ***33,450**	10 350 **22,150**	*12 000 ***25,800**	7000 **15,000**			*9300 ***20,500**	5350 **11,800**	8.76 **28.72**
–3.0 m **–10.0 ft**	kg **lb**	*16 050 ***34,650**	*16 050 ***34,650**	*13 100 ***28,200**	10 550 **22,600**	*9950	7200			*8900 ***19,500**	6600 **14,600**	7.91 **25.85**
–4.5 m **–15.0 ft**	kg **lb**			*8500 ***17,600**	*8500 ***17,600**					*7250 ***16,250**	*7250 ***16,250**	6.54 **20.83**

* 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. All lifts with heavy lift on.

Boom – Mass 6.55 m (21'6")
Stick – M2.5 (8'2")
Bucket – SD 3.21 m³ (4.2 yd³)
Shoes – 900 mm (36") triple grouser
Undercarriage – Long – fixed gauge
Counterweight – 9000 kg (19,842 lb)

		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)				
												m ft
7.5 m **25.0 ft**	kg **lb**					*9350	9050			*7950 ***17,450**	7900 ***17,450**	8.00 **26.01**
6.0 m **20.0 ft**	kg **lb**					*9700 ***21,100**	8800 **18,850**			*8250 ***18,150**	6400 **14,250**	8.71 **28.41**
4.5 m **15.0 ft**	kg **lb**			*13 250 ***28,450**	12 450 **26,850**	*10 600 ***22,950**	8400 **17,950**			*8350 ***18,350**	5400 **11,950**	9.27 **30.34**
3.0 m **10.0 ft**	kg **lb**			*15 600 ***33,400**	11 400 **24,550**	*11 700 ***25,200**	7900 **16,900**	*9650 ***20,850**	5550 **11,800**	*8750 ***19,200**	4900 **10,750**	9.54 **31.27**
1.5 m **5.0 ft**	kg **lb**			*16 750 ***36,150**	10 750 **23,100**	*12 500 ***26,950**	7450 **15,950**	9850 **21,150**	5300 **11,350**	8900 **19,550**	4750 **10,400**	9.54 **31.31**
Ground Line	kg **lb**			*16 650 ***36,000**	10 500 **22,500**	*12 650 ***27,300**	7200 **15,400**			9200 **20,300**	4900 **10,750**	9.29 **30.47**
–1.5 m **–5.0 ft**	kg **lb**	*19 800 ***43,100**	17 750 **37,900**	*15 450 ***33,450**	10 500 **22,500**	*12 000 ***25,800**	7150 **15,300**			*9300 ***20,500**	5450 **12,050**	8.76 **28.72**
–3.0 m **–10.0 ft**	kg **lb**	*16 050 ***34,650**	*16 050 ***34,650**	*13 100 ***28,200**	10 700 **23,000**	*9950	7300			*8900 ***19,500**	6700 **14,900**	7.91 **25.85**
–4.5 m **–15.0 ft**	kg **lb**			*8500 ***17,600**	*8500 ***17,600**					*7250 ***16,250**	*7250 ***16,250**	6.54 **20.83**

* 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. All lifts with heavy lift on.

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

Mass Boom Lift Capacities

 Load Point Height

 Load Radius Over Front

 Load Radius Over Side

 Load at Maximum Reach

Boom – Mass 6.55 m (21'6")
Stick – M2.5 (8'2")
Bucket – SD 3.21 m³ (4.2 yd³)
Shoes – 600 mm (24") triple grouser
Undercarriage – Long – fixed gauge
Counterweight – 9000 kg (19,842 lb)

		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)				
												m ft
7.5 m **25.0 ft**	kg **lb**					*9350	8750			*7950 ***17,450**	7650 **17,200**	8.00 **26.01**
6.0 m **20.0 ft**	kg **lb**					*9700 ***21,100**	8550 **18,250**			*8250 ***18,150**	6150 **13,750**	8.71 **28.41**
4.5 m **15.0 ft**	kg **lb**			*13 250 ***28,450**	12 100 **26,050**	*10 600 ***22,950**	8100 **17,350**			*8350 ***18,350**	5200 **11,450**	9.27 **30.34**
3.0 m **10.0 ft**	kg **lb**			*15 600 ***33,400**	11 050 **23,750**	*11 700 ***25,200**	7600 **16,300**	*9650 **20,850**	5300 **11,300**	8750 ***19,200**	4700 **10,300**	9.54 **31.27**
1.5 m **5.0 ft**	kg **lb**			*16 750 ***36,150**	10 400 **22,300**	*12 500 ***26,950**	7200 **15,350**	9500 **20,350**	5100 **10,850**	8550 **18,850**	4500 **9,950**	9.54 **31.31**
Ground Line	kg **lb**			*16 650 ***36,000**	10 150 **21,750**	*12 650 ***27,300**	6950 **14,850**			8850 **19,550**	4700 **10,300**	9.29 **30.47**
–1.5 m **–5.0 ft**	kg **lb**	*19 800 ***43,100**	17 200 **36,750**	*15 450 ***33,450**	10 150 **21,750**	*12 000 ***25,800**	6900 **14,700**			*9300 ***20,500**	5250 **11,550**	8.76 **28.72**
–3.0 m **–10.0 ft**	kg **lb**	*16 050 ***34,650**	*16 050 ***34,650**	*13 100 ***28,200**	10 350 **22,200**	*9950	7050			*8900 ***19,500**	6450 **14,350**	7.91 **25.85**
–4.5 m **–15.0 ft**	kg **lb**			*8500 ***17,600**	*8500 ***17,600**					*7250 ***16,250**	*7250 ***16,250**	6.54 **20.83**

* 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. All lifts with heavy lift on.

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

349D L Standard Equipment

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

- Auto-lube ready
- Auxiliary hydraulic valve and auxiliary pump drive location
- Cab
  - Air conditioner, heater, defroster with automatic climate control
  - Ashtray with lighter
  - Bolt-on FOGS capability
  - Coat hook
  - Floor mat
  - Light, interior
  - Literature compartment
  - Monitor
    - Full graphic color display
    - Start-up level check (engine oil, coolant, and hydraulic oil)
  - Polycarbonate side windows
  - Positive filtered ventilation
  - Radio, AM/FM with two speakers
  - Seat belt, retractable
  - Seat, suspension, heated, with high back and head rest
  - Skylight, openable, with sunshade
  - Storage compartment suitable for a lunch box cooler
  - Windshield wiper and washers (upper and lower)
- Counterweight 9000 kg (19,842 lb)
- Engine
  - Cat C13 with ACERT Technology
  - Electric priming pump
  - Precleaner
  - Speed control, automatic
  - Water separator, fuel
- Fine swing control
- Fuel-Water separator
- Heavy lift mode
- High ambient cooling
- Hydraulic neutralizer lever for all controls
- Lights, working
  - Boom, both sides
  - Cab mounted, two
  - Frame mounted
- Mirrors, frame and cab
- Product Link
- S•O•S℠ analysis, engine and hydraulic sampling ports
- Swing parking brake, automatic
- Swivel guard
- Track
  - Guiding guards, idler and center sections
  - Motor guards, track, heavy duty
- Travel alarm

349D L Optional Equipment

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

- Auxiliary controls
  - Circuit, hammer
  - System, tool control with medium pressure
  - System, tool control without medium pressure
- Auxiliary hydraulic lines for booms and sticks
- Booms
  - Mass excavation 6.55 m (21'6")
  - Reach, heavy-duty 6.9 m (22'8")
- Buckets (see pages 9, 17, 18 and 19)
  - Bucket linkage:
    - TB family (with lift eye)
    - UB family
  - Bucket pin adapter kit, for using 345B series buckets
  - Bucket sidecutters and tips
- Cab
  - Camera, rearview
  - Mounting, 2-way radio
  - Mounting, radio, 12V and 24V
  - Power supply, 7A – 12V (2)
  - Rear window emergency exit
  - Straight travel pedal
  - Sunscreen
  - WAVS ready
- Check valves
  - Boom lowering
  - Stick lowering
- Counterweight
  - Counterweight 7600 kg (16,760 lb)
  - Counterweight 8700 kg (19,180 lb) with counterweight removal for a total weight of 9000 kg (19,842 lb)
- Coupler
  - Pin grabber type, controls, lines
- Engine
  - Starting, cold weather (two additional batteries, heavy duty battery cables, ether aid)
  - Terminal, jump start
- Fan, hydraulic, reversing
- Guards
  - Falling Object, for cab
  - Front windshield
  - Guiding, track, full length
  - Guiding, track, sprocket end
  - Heavy-duty, bottom
  - Vandalism protection
- Hand Control Pattern Changer
- High intensity discharge lights
  - HID HD boom
- Machine Security System (MSS)
- Sticks
  - 2.5 m (8'2") Mass
  - 3.0 m (9'10") Mass
  - 3.35 m (11'0') HD Reach
  - 3.9 m (12'10") Long Reach/HD Reach
- Undercarriage
  - Fixed
  - Idler, Cast
  - Track, GLT4
    - 600 mm (24") double-grouser shoes
    - 750 mm (30") triple-grouser shoes
    - 900 mm (36") triple-grouser shoes
  - Track, PPR2
    - 600 mm (24") double-grouser shoes
    - 750 mm (30") triple-grouser shoes
    - 900 mm (36") triple-grouser shoes

Notes

Notes

349D L Hydraulic Excavator

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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