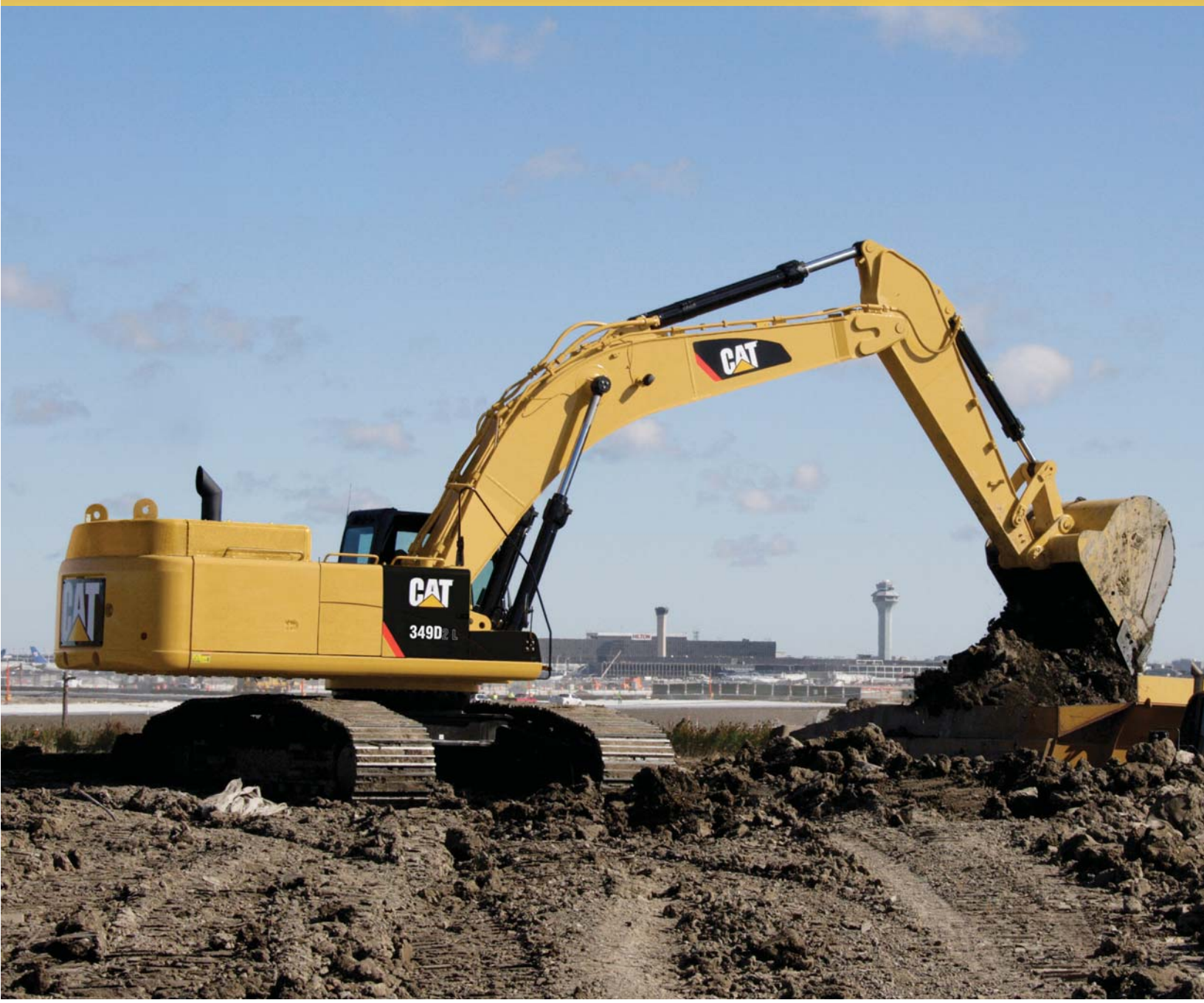
349D2/D2 L

Hydraulic Excavator



Engine		
Engine Model	Cat® C13 ACERT™	
Engine Power (ISO 14396)	301 kW	403 hp
Net Power (SAE J1349/ISO 9249)	289 kW	387 hp

Weights		
Operating Weight		
Standard Undercarriage	45 382 kg	100,100 lb
Long Undercarriage	47 919 kg	105,600 lb

349D2/D2 L Differentiating Features

Engine and Hydraulics
A powerful Cat C13 engine that meets U.S. EPA Tier 2, EU Stage II regulations, and China Tier 2 emission regulations combined with a highly efficient hydraulic system deliver excellent performance with low fuel consumption. In fact, the 349D2/D2 L uses up to 9 percent less fuel than its predecessor moving the same amount of material in optimized Economy Mode.

Structures
Caterpillar design and manufacturing techniques assure you get outstanding durability and service life in the toughest applications.

Operator Station
The spacious cab features excellent visibility and easy-to-access switches. The monitor features a full-color graphical display that is easy to see and use. Overall, the new cab provides you with a comfortable working environment for maximum production and efficiency.

Reduced Service and Maintenance Cost
Routine service and maintenance can be completed quickly and easily to help you reduce ownership costs. Convenient access points, extended service intervals, and advanced filtration help keep downtime to a minimum.

Complete Customer Support
Your Cat dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment.

Total Solutions
Caterpillar and its extensive dealer network offer a wide variety of solutions designed to meet the unique needs of your business.

Contents

The 349D2/D2 L offers outstanding performance, excellent control, high stick and bucket forces, impressive lift capacity, simplified service and a comfortable operator station to increase your productivity and lower operating costs.

Operator Station

Enhance your comfort, operation, and visibility.
The 349D2/D2 L allows you to focus on your job.

Operator Station

The ergonomically designed operator station is spacious, quiet, and comfortable, assuring high productivity during a long work day. All switches are located in front of the operator for convenient access.

Cab Structure and Mounts

The cab shell is attached to the frame with viscous rubber mounts, which dampen vibrations and sound levels while enhancing your comfort. Thick steel tubing along the bottom perimeter improves the cab's resistance to fatigue and vibration.

Seat

The suspension seat provides a variety of adjustments to accommodate a wide range of operators. The seat includes a reclining back, upper and lower seat slide adjustments, and height and tilt adjustments to meet your needs for comfort and productivity.

Monitor

The monitor is a full-color Liquid Crystal Display (LCD) that has the capability of displaying information in 28 languages.

Joystick Control and Console

Low-effort pilot-operated joystick controls are designed to match your natural wrist and arm position for maximum comfort and minimum fatigue. The right and left joystick console can be adjusted to meet your individual preferences, improving overall comfort and productivity during the course of a long work day.

Climate Control

Positive filtered ventilation with a pressurized cab is standard. Fresh air or re-circulated air can be selected with a switch on the left console.

Windows and Wipers

All glass is affixed directly to the cab to maximize visibility, eliminating window frames. The upper front windshield opens, closes, and stores on the roof above the operator with a one-touch action release system. Pillar-mounted wipers increase your viewing area and offer continuous and intermittent modes.

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.
- The turbocharger increases the density of the air, enabling the engine to produce more power with few effects from altitude.

Engine

Powerful, reliable, and fuel efficient to deliver more to your bottom line.

349D2/D2 L owning and operation costs have been reduced by reverting to optimized Economy Mode each time the machine is started regardless of what mode the operator had previously selected. This will help to reduce fuel consumption up to 9 percent than its predecessor moving the same amount of material.

Emission Standards

The Cat C13 engine has been designed to meet U.S. EPA Tier 2, EU Stage II, and China Tier 2 emission standards. The engine incorporates proven robust components and precision manufacturing you can count on for reliable and efficient operation.

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 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 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.

Air Cleaner

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

Low Sound and Vibration Levels

The engine mounts are rubber-isolating mounts matched with the engine package to provide optimum sound and vibration reduction. Further noise reduction has been achieved through design changes to the isolated top cover, oil pan, multiple injection strategy, insulated timing cover, sculpted crankcase.

Hydraulics

Uncanny power and control for your multiple applications.

Pilot System

An independent pilot pump enables smooth, precise control for the front linkage, swing, and travel operations.

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 as close to each other as possible. This design makes it possible to use shorter tubes and lines between components, reducing friction losses and pressure drops.

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 this system is managed by the machine ECM. The system improves cycle times and fuel efficiency, increasing your productivity and reducing operating costs.

Boom and Swing Priority

The hydraulic system on the 349D2/D2 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 and structure life.

Structures and Undercarriage

Strong and durable, all you expect from Cat excavators.

Main Frame

The rugged main frame is built to perform in the toughest applications. The X-shaped, box-section carbody provides excellent resistance to torsional bending, and press-formed, robot-welded track roller frames provide exceptional strength and durability.

Fixed Gauge Undercarriages

The 349D2 standard (fixed gauge undercarriage) and 349D2 L (long and fixed gauge undercarriage) contribute significantly to outstanding stability and durability.

Rollers and Idlers

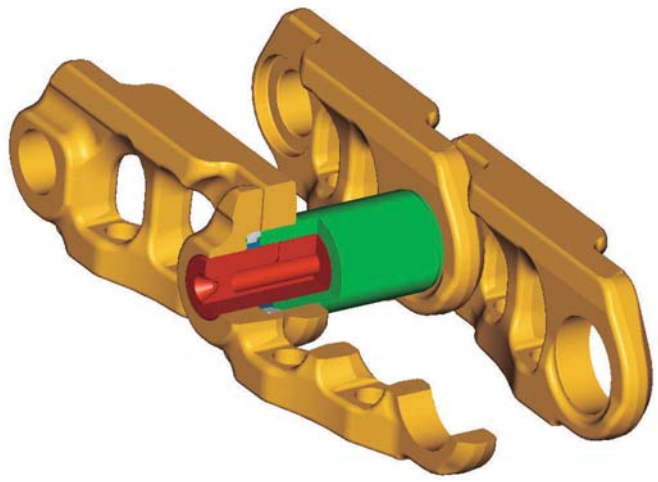
Sealed and lubricated track rollers, carrier rollers, and idlers provide excellent service life to keep your machine in the field and working longer.

Track Roller Frame

The track roller frame is made of a press-formed, pentagonal section that is robot-welded for weld 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.

Counterweights

The 9.0 mt (9.9 t) counterweight maintains large lifting capacity and excellent stability. It's bolted directly to the main frame for extra rigidity.



Track

Durable Cat undercarriage absorbs stress and provides excellent stability. The 349D2/D2 L comes standard with grease lubricated tracks. The track links are assembled and sealed with grease to decrease internal bushing wear, reduce travel noise and extend service life lowering operating costs.

Front Linkage

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

Booms and Sticks

The 349D2/D2 L is offered with a range of booms and sticks. Each is built with internal baffle plates and stress-relieved for added durability, and each undergoes ultrasound inspection to ensure quality and reliability. Large box-section structures with thick, multi-plate fabrications, castings, and forgings are used in high-stress areas such as the boom nose, boom foot, boom cylinder, and stick foot to improve durability. Also, the boom nose pin retention method is a captured flag design for enhanced durability.

Reach Front Linkage

The Reach boom is designed to balance reach, digging force bucket capacity, offering a wide range of applications as digging, loading and trenching.

There are three reach stick options available to meet all your application requirements:

- The 2.9 m (9'6") stick is best used when you are working primarily in truck loading applications to maximize your breakout force and increase your bucket fill factor.
- The 3.35 m (11'0") stick is a versatile option that will meet the needs for most of your construction applications.
- The 3.9 m (12'10") stick is a great choice when you need additional working range like truck loading and deep trenching.

Mass Front Linkage

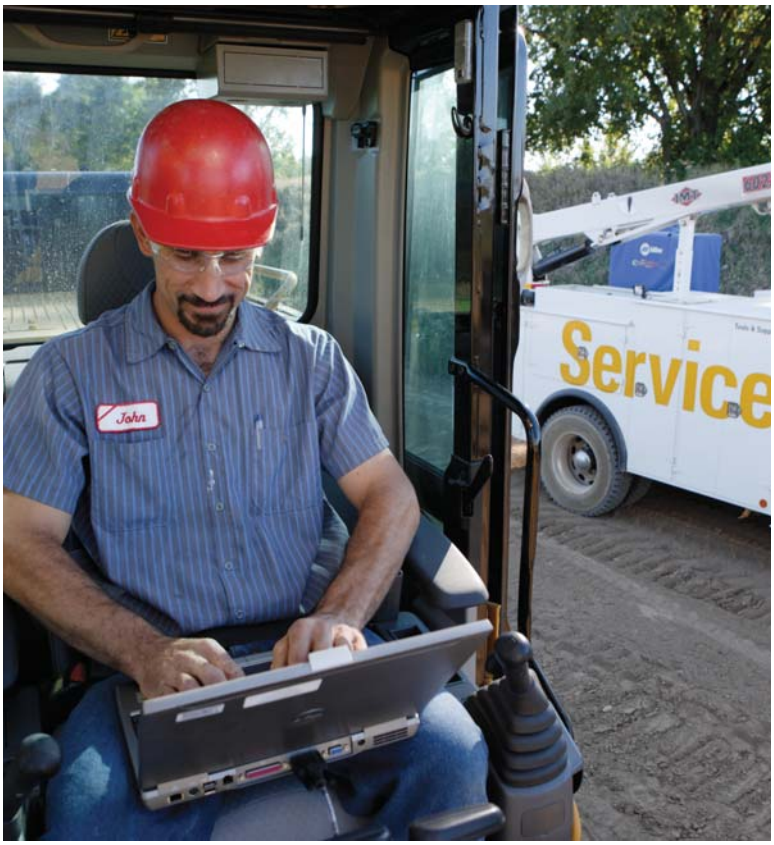
The mass excavation (ME) front linkage is designed to maximize machine performance through superior digging forces and a larger bucket capacity. The 6.55 m (21'6") mass excavation boom is reinforced with a large cross section for longer life and durability.

The ME boom has two stick options to meet your demanding applications:

- The 2.5 m (8'2") ME stick is best for bench loading. This option also provides better breakout force for ripper and is ideal for hammer applications.
- The 3.0 m (9'10") ME stick is best when you primarily use high-capacity buckets in truck loading applications to maximize your breakout force.

Service and 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

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

Radial Seal Main Air Cleaner

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 air cleaner compartment for easy access from the ground.

Service Points

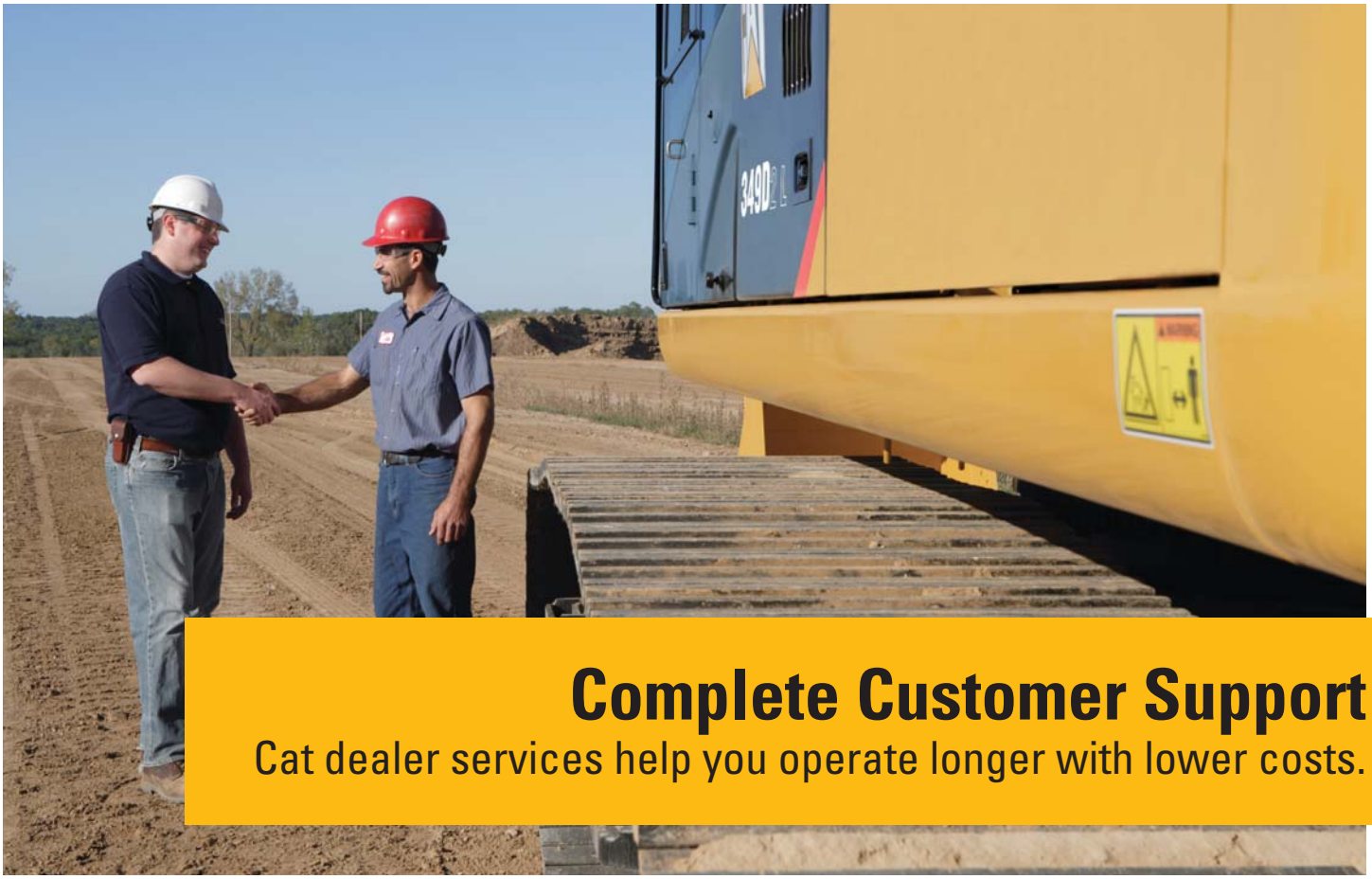
Service points are centrally located with easy access to facilitate routine maintenance.

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 our line of remanufactured components.

Machine Selection

Your Cat dealers can provide specific recommendations with detailed comparisons of the Cat machines you are considering before you buy. This ensures you get the right size machine and appropriate work tools to meet all of your application needs.

Maintenance Services

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

Customer Support Agreements

Cat dealers offer a variety of product support agreements that can be tailored to meet your specific needs. These plans can cover the entire machine – including attachments – to help protect your investment.

Replacement

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

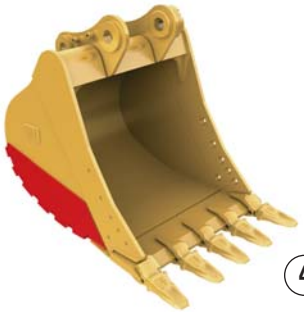
Work Tools

Dig, hammer, rip, and cut with confidence.

1

2

3



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Versatility and Performance

Each Cat work tool is designed to optimize the versatility and performance of your machine. An extensive range of buckets, compactors, grapples, multi-processors, rippers, crushers, pulverizers, hammers, and shears is available for your 349D2/D2 L.

Buckets and GET

Cat buckets and Cat Ground Engaging Tools (GET) are designed and matched to the machine to ensure optimal performance and fuel efficiency.

Utility Buckets (UD)

UD buckets are for digging in low-impact, low-abrasive material such as dirt, loam, and clay.

General-Duty Buckets (GD)

GD buckets are for digging in low-impact, moderately abrasive materials such as dirt, loam, gravel, and clay.

Heavy-Duty Buckets (HD)

HD buckets are a good starting point when application conditions vary – especially when conditions include mixed dirt, clay, sand, and gravel.

Severe-Duty Buckets (SD)

SD buckets are best suited to highly abrasive materials like shot rock, sand stone, and granite.

Extreme-Duty Buckets (XD)

XD buckets are for extremely abrasive materials like high-quartzite granite.

1) Utility Buckets (UD)
2) General-Duty Buckets (GD)
3) Heavy-Duty Buckets (HD)
4) Severe-Duty Buckets (SD)
5) Extreme-Duty Buckets (XD)

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.

Center-Lock™ Pin Grabber Coupler

Center-Lock is a pin grabber coupler and features a patent-pending locking system. A highly visible secondary lock clearly shows the operator when the coupler is engaged or disengaged from the bucket or work tool.

E Series Hammers

E Series hammers bring together customer expectations for performance, quality, and serviceability along with Caterpillar manufacturing expertise. They are also quiet – a significant benefit in urban and noise-restricted work areas.

Rippers

Constructed from high-strength steels and built to last, Cat rippers endure in the toughest conditions. The box-section structure is reinforced for maximum rigidity, transmitting the full machine power to the material being ripped. Rippers feature a replaceable wear tip, and most models also come equipped with a replaceable shank protector.

Grapples

Cat grapples make Cat excavators the ideal machine for handling loose material, sorting trash, and demolition site cleanup. An array of styles and sizes is available to match excavators to the task at hand.

Multi-Processors

Multi-processors do the work of many types of demolition tools by use of interchangeable jaw sets. Changing jaws allows a single unit to crush, pulverize, and perform a variety of specialized tasks such as cutting steel rebar and tanks.

Shears

Cat shears are designed to take full advantage of the hydraulic flows and pressures produced by Cat excavators – all to enhance productivity without compromising safety or causing premature wear of the shear or carrier.

Pulverizers

Mechanical pulverizers are cost-effective tools for recycling demolished concrete debris. The bucket cylinder on the excavator powers the pulverizer, eliminating the need for a dedicated cylinder, associated hydraulics, and additional installation cost.

Compactors

Cat compactors make job site compaction quick, efficient, and cost effective.

Crushers

The hydraulic concrete crusher is well suited for demolition in residential areas. The tool combines several demolition operations in one piece of equipment:

- Breaking out concrete from fixed structures
- Pulverizing concrete
- Cutting reinforcement rods and small steel profiles

Integrated Technologies

Monitor, manage, and enhance your 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.

Featured Cat Connect technologies include:

Link

LINK technologies wirelessly connect you to your equipment giving you access to essential information you need to know to run your business. Link data can give you valuable insight into how your machine or fleet is performing so you can make timely, fact-based decisions that can boost job site efficiency and productivity.

- **Product Link™/VisionLink®** – Product Link is deeply integrated into your machine, helping to take the guesswork out of equipment management. Easy access to timely information like machine location, hours, fuel usage, idle time and event codes via the online VisionLink user interface can help you effectively manage your fleet and lower operating costs.

Grade

GRADE technologies combine digital design data, in-cab guidance and automatic machine control to help operators hit target grade faster and finish jobs quickly, accurately, and in fewer passes – improving grading productivity and efficiency with less rework.

- **Cat AccuGrade™** – The dealer-installed AccuGrade system provides operators an easy-to-read display to deliver real-time cut/fill data to guide operators to grade quickly. Experienced operators can maintain peak efficiency levels throughout the work day, and less experienced operators can be more productive faster. AccuGrade reduces grade checking and staking, labor and material costs, and improves job site safety.
- Caterpillar offers a choice of:
  - Depth and Slope Guidance – for simple 2D planes and slopes
  - Global Navigation Satellite System – for complex 3D designs
- **AccuGrade Ready Option (ARO)** – The factory AccuGrade Ready Option provides optimal mounting locations, brackets, and hardware to make the AccuGrade installation quick and easy. Deep integration optimizes machine and system performance and productivity.

Detect

DETECT technologies combine safety features, functionalities and alerts to enhance your job site awareness and keep your people and assets safe.

CAT® CONNECT

- **Rearview Camera** – Rear vision cameras greatly enhance visibility behind the machine, helping the operator work more safely and productively. The camera view is automatically displayed on the integrated in-cab monitor increasing awareness of the working area around the machine giving the operator the confidence to work more safely and efficiently, at maximum potential.

Note: Availability may vary by region. Please consult your Cat dealer for details.

Engine

Engine Model	Cat C13 ACERT	
Engine Power (ISO 14396)	301 kW	403 hp
Net Power (SAE J1349/ISO 9249)	289 kW	387 hp
Bore	130 mm	5.11 in
Stroke	157 mm	6.18 in
Displacement	12.5 L	762 in³

- The Cat C13 meets exhaust emissions equivalent to U.S. EPA Tier 2, EU Stage II, and China Tier 2 emission regulations.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- The field-proven C13 engine can work efficiently at altitudes up to 2300 m (7,500 ft).

Weights

Operating Weight		
Standard Undercarriage*	45 382 kg	100,100 lb
Long Undercarriage**	47 919 kg	105,600 lb

*Standard Undercarriage: Counterweight – 9.0 mt (9.9 t), Reach Boom – 6.9 m (22'8"), Stick – R3.9 m (12'10"), Track Shoe – Standard 750 mm (30 in) Triple Grouser, Bucket – TB2.2 m³ (2.88 yd³)

**Long Undercarriage: Counterweight – 9.0 mt (9.9 t), Mass Boom – 6.55 m (21'6"), Stick – M3.0 m (9'10"), Track Shoe – Long Fixed Gauge, 900 mm (35 in) Triple Grouser, Bucket – UB2.4 m³ (3.16 yd³)

Track

Number of Shoes (each side)	
Standard	49
Long	52
Number of Track Rollers (each side)	
Standard	8
Long	9
Number of Carrier Rollers (each side)	
Standard	2
Long	2

Swing Mechanism

Swing Speed	8.7 rpm	
Swing Torque	149 kN·m	109,896 lbf-ft

Drive

Gradeability	30°/70%	
Maximum Travel Speed	4.5 km/h	2.7 mph
Maximum Drawbar Pull	338 kN	75,985 lbf

Hydraulic System

Main System – Maximum Flow (Total)	734 L/min	193 gal/min
Maximum Pressure – Equipment	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	31 400 kPa	4,554 psi
Pilot System – Maximum Flow	43 L/min	11.3 gal/min
Pilot System – Maximum Flow	43 L/min	2,623 in³/min
Pilot System – Maximum Pressure	4110 kPa	596 psi
Boom Cylinder – Bore	160 mm	6.0 in
Boom Cylinder – Stroke	1575 mm	62.0 in
Stick Cylinder – Bore	190 mm	7.0 in
Stick Cylinder – Stroke	1778 mm	70.0 in
TB Bucket Cylinder – Bore	160 mm	6.0 in
TB Bucket Cylinder – Stroke	1356 mm	53.0 in
UB Bucket Cylinder – Bore	170 mm	6.0 in
UB Bucket Cylinder – Stroke	1396 mm	55.0 in

Service Refill Capacities

Fuel Tank Capacity	705 L	186 gal
Cooling System	35.5 L	9 gal
Engine Oil (with filter)	42 L	11 gal
Swing Drive (each)	10 L	2 gal
Final Drive (each)	15 L	3 gal
Hydraulic System (including tank)	570 L	150 gal
Hydraulic Tank	243 L	64 gal

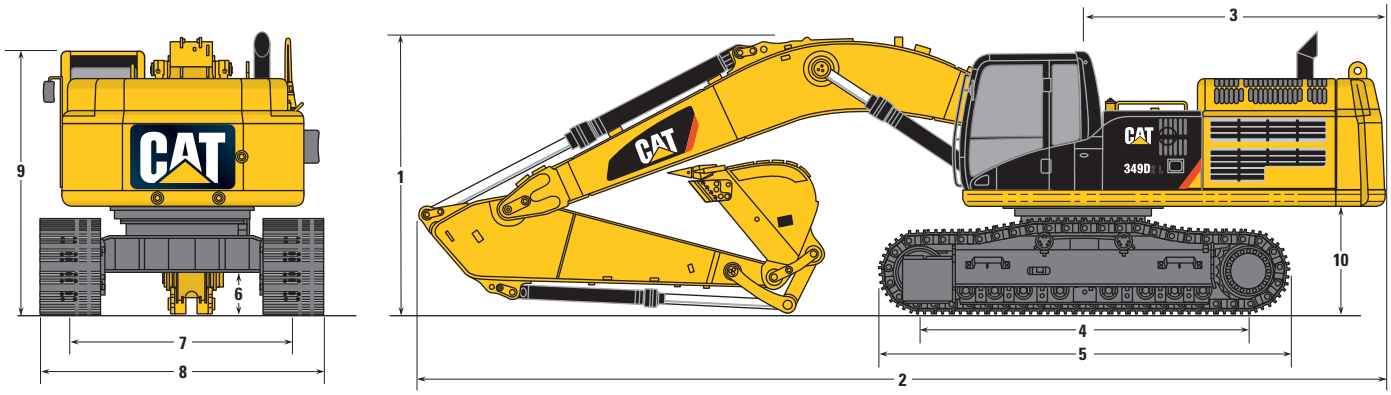
Sound Performance

Performance	ANSI/SAE J1166 MAY90 Meets OSHA and MSHA Requirements

349D2/D2 L Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate.

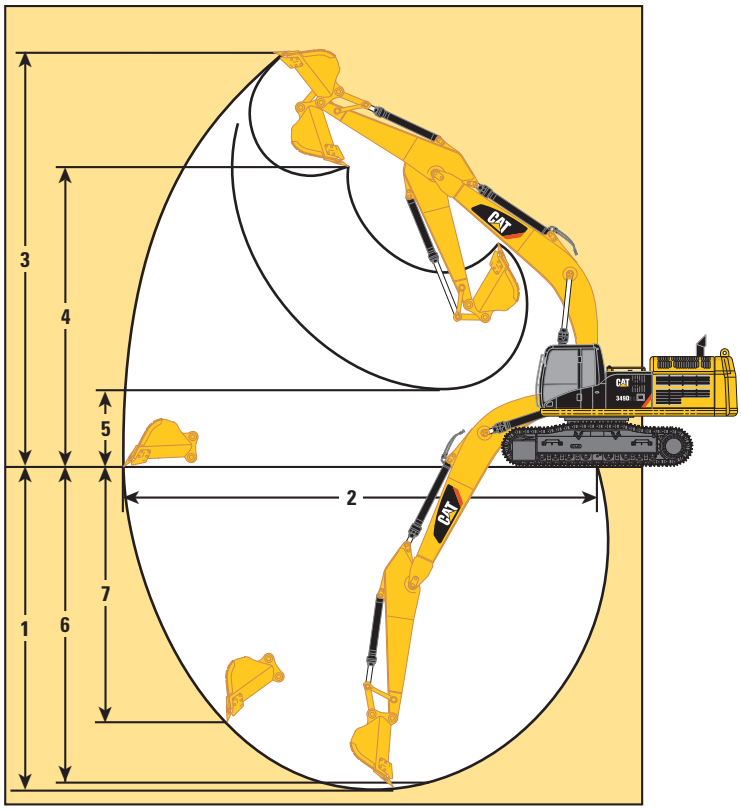


Boom Options		Reach Boom 6.9 m (22'8")			Mass Boom 6.55 m (21'6")	
Stick Options	**R2.9TB (9'6")**	**R3.35TB (11'0")**	**R3.9TB (12'10")**	**M2.5UB (8'2")**	**M3.0UB (9'10")**
	mm (ft)	**mm (ft)**	**mm (ft)**	**mm (ft)**	**mm (ft)**
1 Shipping Height	3700 (12'2")	3690 (12'1")	3660 (12'0")	3960 (13'0")	4020 (13'2")
2 Shipping Length	11 870 (38'11")	11 940 (39'2")	11 950 (39'2")	11 710 (38'5")	11 640 (38'2")
3 Tail Swing Radius	3770 (12'4")	3770 (12'4")	3770 (12'4")	3770 (12'4")	3770 (12'4")
4 Length to Center of Idler and Sprocket					
Standard Undercarriage	4030 (13'3")	4030 (13'3")	4030 (13'3")	4030 (13'3")	4030 (13'3")
Long Undercarriage	4360 (14'4")	4360 (14'4")	4360 (14'4")	4360 (14'4")	4360 (14'4")
5 Track Length					
Standard Undercarriage	5070 (16'8")	5070 (16'8")	5070 (16'8")	5070 (16'8")	5070 (16'8")
Long Undercarriage	5360 (17'7")	5360 (17'7")	5360 (17'7")	5360 (17'7")	5360 (17'7")
6 Ground Clearance*					
Standard Undercarriage	510 (1'8")	510 (1'8")	510 (1'8")	510 (1'8")	510 (1'8")
Long Undercarriage	510 (1'8")	510 (1'8")	510 (1'8")	510 (1'8")	510 (1'8")
7 Track Gauge					
Standard Undercarriage	2740 (9'0")	2740 (9'0")	2740 (9'0")	2740 (9'0")	2740 (9'0")
Long Undercarriage	2740 (9'0")	2740 (9'0")	2740 (9'0")	2740 (9'0")	2740 (9'0")
8 Transport Width					
Standard/Long Undercarriage					
600 mm (24 in) Shoes	3340 (10'11")	3340 (10'11")	3340 (10'11")	3340 (10'11")	3340 (10'11")
750 mm (30 in) Shoes	3490 (11'5")	3490 (11'5")	3490 (11'5")	3490 (11'5")	3490 (11'5")
900 mm (35 in) Shoes	3640 (11'11")	3640 (11'11")	3640 (11'11")	3640 (11'11")	3640 (11'11")
9 Cab Height					
Standard/Long Undercarriage	3640 (11'11")	3640 (11'11")	3640 (11'11")	3640 (11'11")	3640 (11'11")
10 Counterweight Clearance**					
Standard/Long Undercarriage	1320 (4'4")	1320 (4'4")	1320 (4'4")	1320 (4'4")	1320 (4'4")

*Including shoe lug height.

**Without shoe lug height.

Working Ranges



Boom Options		Reach Boom 6.9 m (22'8")			Mass Boom 6.55 m (21'6")	
Stick Options	**R2.9TB (9'6")**	**R3.35TB (11'0")**	**R3.9TB (12'10")**	**M2.5UB (8'2")**	**M3.0UB (9'10")**
	mm (ft)	**mm (ft)**	**mm (ft)**	**mm (ft)**	**mm (ft)**
1 Maximum Digging Depth	7150 (23'5")	7600 (24'11")	8150 (26'9")	6720 (22'1")	7220 (23'8")
2 Maximum Reach at Ground Level	11 240 (36'11")	11 660 (38'3")	12 080 (39'8")	10 710 (35'2")	11 180 (36'8")
3 Maximum Cutting Height	10 620 (34'10")	10 800 (35'5")	10 710 (35'2")	10 230 (33'7")	10 420 (34'2")
4 Maximum Loading Height	7290 (23'11")	7470 (24'6")	7450 (24'5")	6620 (21'9")	6810 (22'4")
5 Minimum Loading Height	3250 (10'8")	2800 (9'2")	2250 (7'5")	3160 (10'4")	2660 (8'9")
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6990 (22'11")	7460 (24'6")	8020 (26'4")	6550 (21'6")	7070 (23'2")
7 Maximum Vertical Wall Digging Depth	5870 (19'3")	6300 (20'8")	6460 (21'2")	4920 (16'2")	5380 (17'8")

Operating Weight and Ground Pressure

	600 mm (24 in) Double Grouser Shoes		600 mm (24 in) Triple Grouser Shoes		750 mm (30 in) Double Grouser Shoes		750 mm (30 in) Triple Grouser Shoes		900 mm (35 in) Triple Grouser Shoes	
	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)
Standard Fix Undercarriage										
Reach Boom – 6.9 m (22'8")										
R2.9TB (9'6")	—	—	—	—	44 600 (98,300)	66.2 (9.63)	44 400 (97,900)	66.2 (9.59)	—	—
R3.35TB (11'0")	—	—	—	—	44 600 (98,300)	66.3 (9.63)	44 500 (98,100)	66.3 (9.61)	—	—
R3.9TB (12'10")	—	—	—	—	44 600 (98,300)	66.2 (9.63)	44 500 (98,100)	66.2 (9.61)	—	—
Mass Boom – 6.55 m (21'6")										
M2.5UB (8'2")	—	—	—	—	45 900 (101,200)	68.2 (9.91)	45 800 (101,000)	68.2 (9.89)	—	—
M3.0UB (9'10")	—	—	—	—	46 000 (101,400)	68.3 (9.93)	45 900 (101,200)	68.3 (9.91)	—	—
Long Fix Undercarriage										
Reach Boom – 6.9 m (22'8")										
R2.9TB (9'6")	44 500 (98,100)	77.2 (11.19)	44 400 (97,900)	77.0 (11.16)	44 500 (98,100)	61.8 (8.95)	45 200 (99,600)	62.6 (9.09)	45 900 (101,200)	53.1 (7.69)
R3.35TB (11'0")	44 400 (97,900)	77.1 (11.16)	44 300 (97,700)	76.9 (11.14)	44 500 (98,100)	61.7 (8.95)	45 100 (99,400)	62.5 (9.07)	45 800 (101,000)	53.0 (7.67)
R3.9TB (12'10")	44 400 (97,900)	77.0 (11.16)	44 300 (97,700)	76.8 (11.14)	44 500 (98,100)	61.7 (8.95)	45 100 (99,400)	62.5 (9.07)	45 800 (101,000)	53.0 (7.67)
Mass Boom – 6.55 m (21'6")										
M2.5UB (8'2")	45 800 (101,000)	79.4 (11.51)	45 700 (100,800)	79.2 (11.49)	45 800 (101,000)	63.6 (9.21)	46 400 (102,300)	64.4 (9.35)	47 200 (104,100)	54.5 (7.91)
M3.0UB (9'10")	45 900 (101,200)	79.5 (11.54)	45 800 (101,000)	79.4 (11.51)	45 900 (101,200)	63.7 (9.23)	46 500 (102,500)	64.5 (9.35)	47 300 (104,300)	54.6 (7.93)

Major Component Weights*

	kg (lb)
Base Machine (with boom cylinder, without counterweight, front linkage and track)	
Standard Fix Undercarriage	22 731 (50,100)
Long Fix Undercarriage	23 001 (50,700)
Counterweight	
9.0 mt (9.9 t)	9000 (19,800)
Boom (includes lines, pins and stick cylinder)	
Reach Boom – 6.9 m (22'8")	4081 (9,000)
Mass Boom – 6.55 m (21'6")	4602 (10,100)
Stick (includes lines, pins and bucket cylinder)	
R2.9TB (9'6")	1952 (4,300)
R3.35TB (11'0")	1994 (4,400)
R3.9TB (12'10")	2119 (4,700)
M2.5UB (8'2")	2189 (4,800)
M3.0UB (9'10")	2370 (5,200)
Track Shoe (Standard Fix Undercarriage/per two tracks)	
750 mm (30 in) Triple Grouser Shoes	5529 (12,200)
Track Shoe (Long Fix Undercarriage/per two tracks)	
600 mm (24 in) Double Grouser Shoes	5222 (11,500)
600 mm (24 in) Triple Grouser Shoes	5117 (11,300)
750 mm (30 in) Double Grouser Shoes	6006 (13,200)
750 mm (30 in) Triple Grouser Shoes	5868 (12,900)
900 mm (35 in) Triple Grouser Shoes	6620 (14,600)
Buckets	
TB1758X – 2.2 m^3 (2.88 yd^3)	1922 (4,200)
UB1729X – 2.4 m^3 (3.16 yd^3)	2326 (5,100)

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

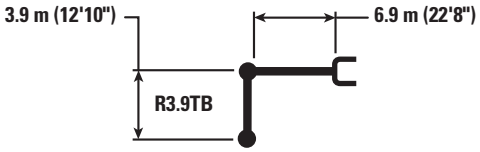
Note: All weights are rounded up to nearest 10 kg and lb except for quick coupler and buckets.
Kg and lb were rounded up separately so some of the kg and lb do not match.

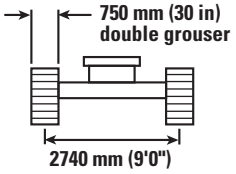
Bucket and Stick Forces

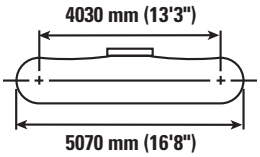
Reach Boom 6.9 m (22'8")	R3.9TB (12'10")		R3.35TB (11'0")		R2.9TB (9'6")	
	kN	(lbf)	kN	(lbf)	kN	(lbf)
TB-Family Bucket						
Heavy Duty						
Bucket Digging Force (ISO)	267	(60,100)	267	(60,100)	267	(60,100)
Stick Digging Force (ISO)	184	(41,400)	201	(45,200)	221	(49,600)
Bucket Digging Force (SAE)	238	(53,500)	238	(53,500)	238	(53,500)
Stick Digging Force (SAE)	180	(40,400)	195	(43,900)	214	(48,100)
Severe Duty						
Bucket Digging Force (ISO)	267	(60,100)	267	(60,100)	267	(60,100)
Stick Digging Force (ISO)	184	(41,400)	201	(45,200)	221	(49,600)
Bucket Digging Force (SAE)	238	(53,500)	238	(53,500)	238	(53,500)
Stick Digging Force (SAE)	180	(40,400)	195	(43,900)	214	(48,100)

Mass Boom 6.55 m (21'6")	M3.0UB (9'10")		M2.5UB (8'2")	
	kN	(lbf)	kN	(lbf)
UB-Family Bucket				
General Duty				
Bucket Digging Force (ISO)	298	(66,900)	298	(66,900)
Stick Digging Force (ISO)	211	(47,300)	239	(53,700)
Bucket Digging Force (SAE)	258	(57,900)	258	(57,900)
Stick Digging Force (SAE)	201	(45,200)	226	(50,900)
Heavy Duty				
Bucket Digging Force (ISO)	295	(66,300)	295	(66,300)
Stick Digging Force (ISO)	210	(47,200)	238	(53,500)
Bucket Digging Force (SAE)	256	(57,400)	256	(57,400)
Stick Digging Force (SAE)	200	(45,000)	226	(50,700)
Severe Duty				
Bucket Digging Force (ISO)	290	(65,200)	290	(65,200)
Stick Digging Force (ISO)	211	(47,500)	239	(53,800)
Bucket Digging Force (SAE)	252	(56,600)	252	(56,600)
Stick Digging Force (SAE)	203	(45,700)	229	(51,500)

Reach Boom (Standard Fix Undercarriage) Lift Capacities – Counterweight: 9.0 mt (9.9 t) – Heavy Lift: Off







		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 **inch**
9000 mm **360 in**	kg **lb**													*7250 ***16,100**	*7250 ***16,100**	7870 **310**
7500 mm **300 in**	kg **lb**													*6950 ***15,300**	*6950 ***15,300**	8980 **350**
6000 mm **240 in**	kg **lb**									*9750 ***21,200**	*9750 ***21,200**	*9150 ***20,000**	8000 **17,150**	*6850 ***15,100**	*6850 ***15,100**	9720 **390**
4500 mm **180 in**	kg **lb**							*12 450 ***26,900**	*12 450 ***26,900**	*10 650 ***23,100**	10 350 **22,300**	*9550 ***20,850**	7800 **16,750**	*7000 ***15,350**	6350 **13,950**	10 190 **400**
3000 mm **120 in**	kg **lb**					*19 800 ***42,500**	*19 800 ***42,500**	*14 400 ***31,100**	13 650 **29,450**	*11 700 ***25,350**	9900 **21,300**	*10 150 ***22,000**	7500 **16,150**	*7300 ***16,050**	5950 **13,150**	10 420 **410**
1500 mm **60 in**	kg **lb**					*22 600 ***48,700**	19 300 **41,600**	*16 050 ***34,700**	12 850 **27,750**	*12 650 ***27,450**	9400 **20,300**	10 600 **22,850**	7250 **15,600**	*7850 ***17,250**	5850 **12,800**	10 430 **410**
0 mm **0 in**	kg **lb**			*19,600	*19,600	*22 550 ***50,750**	18 600 **40,050**	*17 000 ***36,750**	12 350 **26,550**	*13 300 ***28,750**	9050 **19,550**	10 400 **22,400**	7050 **15,150**	8700 **19,100**	5900 **13,000**	10 210 **410**
–1500 mm **–60 in**	kg **lb**			*14 550 ***32,750**	*14 550 ***32,750**	*22 900 ***49,600**	18 400 **39,550**	*17 050 ***36,900**	12 050 **26,000**	13 300 **28,650**	8900 **19,100**	10 300 **22,150**	6950 **14,950**	9200 **20,250**	6250 **13,700**	9760 **390**
–3000 mm **–120 in**	kg **lb**	*36,650	*36,650	*21 200 ***47,850**	*21 200 ***47,850**	*21 250 ***46,000**	18 500 **39,750**	*16 200 ***35,050**	12 050 **25,900**	*12 750 ***27,500**	8850 **19,050**	*9950	6950	*9900 ***21,800**	6950 **15,300**	9040 **360**
–4500 mm **–180 in**	kg **lb**			*24 250 ***52,300**	*24 250 ***52,300**	*18 350 ***39,500**	*18 350 ***39,500**	*14 200 ***30,500**	12 200 **26,350**	*10 900 ***23,150**	9000 **19,450**			*9900 ***21,750**	8350 **18,600**	7960 **310**
–6000 mm **–240 in**	kg **lb**					*13 400 ***28,200**	*13 400 ***28,200**	*10 100 ***20,800**	*10 100 ***20,800**					*9200 ***20,050**	*9200 ***20,050**	6360 **250**

* **ISO 10567**

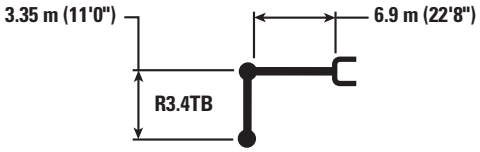
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

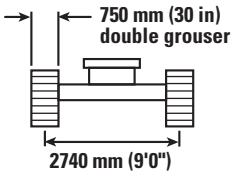
Lift capacity stays with ±5% for all available track shoes.

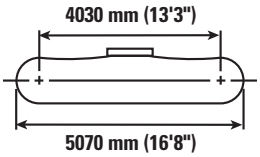
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

349D2/D2 L Hydraulic Excavator Specifications

Reach Boom (Standard Fix Undercarriage) Lift Capacities – Counterweight: 9.0 mt (9.9 t) – Heavy Lift: Off







		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		9000 mm/360 in				
														mm **inch**
9000 mm **360 in**	kg **lb**											*8300 ***18,400**	*8300 ***18,400**	7320 **290**
7500 mm **300 in**	kg **lb**							*9950 ***21,850**	*9950 ***21,850**			*7800 ***17,250**	*7800 ***17,250**	8490 **340**
6000 mm **240 in**	kg **lb**							*10 400 ***22,700**	*10 400 ***22,700**	*9750 ***18,750**	7850 **16,850**	*7650 ***16,900**	7450 **16,550**	9280 **370**
4500 mm **180 in**	kg **lb**			*17 400 ***37,300**	*17 400 ***37,300**	*13 350 ***28,800**	*13 350 ***28,800**	*11 250 ***24,450**	10 250 **22,050**	*10 050 ***21,900**	7700 **16,550**	*7750 ***17,050**	6700 **14,850**	9770 **390**
3000 mm **120 in**	kg **lb**			*21 300 ***45,700**	20 200 **43,650**	*15 200 ***32,800**	13 450 **29,000**	*12 250 ***26,500**	9800 **21,050**	*10 500 ***22,850**	7450 **16,050**	*8100 ***17,750**	6350 **13,950**	10 010 **400**
1500 mm **60 in**	kg **lb**			*17 600 ***42,100**	*17 600 **41,000**	*16 600 ***35,900**	12 750 **27,450**	*13 050 ***28,300**	9350 **20,200**	10 600 **22,800**	7250 **15,600**	*8650 ***19,050**	6200 **13,650**	10 020 **400**
0 mm **0 in**	kg **lb**			*19 900 ***46,150**	18 600 **40,050**	*17 250 ***37,300**	12 300 **26,550**	*13 500 **29,150**	9100 **19,550**	10 400 **22,450**	7100 **15,250**	9250 **20,400**	6300 **13,900**	9800 **390**
–1500 mm **–60 in**	kg **lb**	*14 200 ***32,050**	*14 200 ***32,050**	*22 350 ***48,550**	18 550 **39,900**	*16 950 ***36,750**	12 150 **26,150**	*13 350 **28,800**	8950 **19,250**	10 350 **22,300**	7000 **15,150**	9900 **21,800**	6700 **14,800**	9320 **370**
–3000 mm **–120 in**	kg **lb**	*22 650 ***51,200**	*22 650 ***51,200**	*20 250 ***43,900**	18 750 **40,300**	*15 750 ***34,000**	12 200 **26,250**	*12 350 ***26,600**	8950 **19,350**			*10 200 ***22,400**	7600 **16,750**	8560 **340**
–4500 mm **–180 in**	kg **lb**	*21 150 ***45,550**	*21 150 ***45,550**	*16 800 ***36,100**	*16 800 ***36,100**	*13 150 ***28,150**	12 450 **26,850**					*9850 ***21,600**	9400 **20,950**	7420 **290**

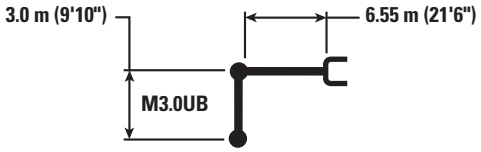
* **ISO 10567**

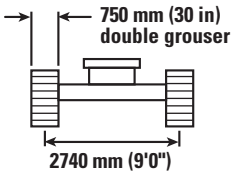
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

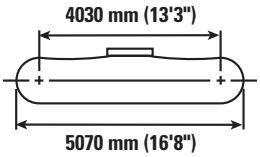
Lift capacity stays with ±5% for all available track shoes.

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

Mass Boom (Standard Fix Undercarriage) Lift Capacities – Counterweight: 9.0 mt (9.9 t) – Heavy Lift: Off







		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		9000 mm/360 in				
														mm **inch**
7500 mm **300 in**	kg **lb**							*10 600	10 450			*9200 ***20,350**	*9200 ***20,350**	7680 **300**
6000 mm **240 in**	kg **lb**							*10 700 ***23,400**	10 300 **22,150**			*8950 ***19,700**	8250 **18,350**	8540 **340**
4500 mm **180 in**	kg **lb**			*17 400 ***37,350**	*17 400 ***37,350**	*13 400 ***29,000**	*13 400 ***29,000**	*11 400 ***24,750**	9950 **21,400**	*9950	7400	*9050 ***19,900**	7300 **16,100**	9080 **360**
3000 mm **120 in**	kg **lb**			*21 100 ***45,300**	19 950 **43,000**	*15 150 ***32,700**	13 150 **28,400**	*12 250 ***26,550**	9500 **20,450**	10 600 **22,700**	7200 **15,450**	*9450 ***20,750**	6800 **14,950**	9330 **370**
1500 mm **60 in**	kg **lb**			*21 700 ***49,800**	18 700 **40,300**	*16 450 ***35,550**	12 450 **26,850**	*12 950 ***28,100**	9100 **19,600**	10 350 **22,300**	7000 **15,050**	9800 **21,600**	6600 **14,550**	9340 **370**
0 mm **0 in**	kg **lb**			*23 000 ***49,900**	18 300 **39,350**	*16 950 ***36,650**	12 050 **25,900**	*13 250 **28,600**	8850 **19,000**	10 200	6850	10 050 **22,150**	6750 **14,900**	9100 **360**
–1500 mm **–60 in**	kg **lb**	*17 050 ***38,550**	*17 050 ***38,550**	*21 700 ***47,100**	18 250 **39,250**	*16 450 ***35,650**	11 900 **25,600**	*12 900 ***27,800**	8700 **18,800**			*10 700 ***23,550**	7300 **16,100**	8590 **340**
–3000 mm **–120 in**	kg **lb**	*24 650 ***53,550**	*24 650 ***53,550**	*19 200 ***41,600**	18 500 **39,750**	*14 850 ***32,050**	12 000 **25,800**	*11 300 ***23,950**	8850 **19,100**			*10 650 ***23,400**	8500 **18,800**	7750 **310**
–4500 mm **–180 in**	kg **lb**			*14 900 ***31,800**	*14 900 ***31,800**	*11 250 ***23,600**	*11 250 ***23,600**					*9950 ***21,700**	*9950 ***21,700**	6460 **260**

* **ISO 10567**

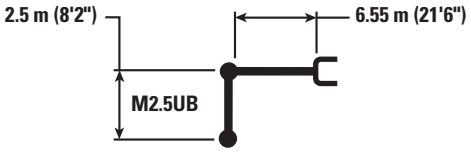
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

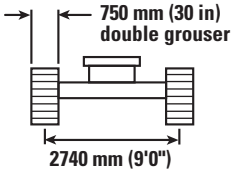
Lift capacity stays with ±5% for all available track shoes.

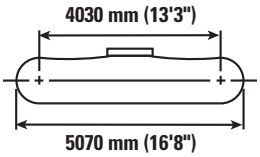
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

349D2/D2 L Hydraulic Excavator Specifications

Mass Boom (Standard Fix Undercarriage) Lift Capacities – Counterweight: 9.0 mt (9.9 t) – Heavy Lift: Off







		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm **inch**
7500 mm **300 in**	kg **lb**									*11 600 ***25,650**	11 300 **25,400**	7120 **280**
6000 mm **240 in**	kg **lb**					*12 750 ***27,700**	*12 750 ***27,700**	*11 400 ***25,000**	10 200 **21,950**	*11 200 ***24,700**	9050 **20,200**	8040 **320**
4500 mm **180 in**	kg **lb**			*18 900 ***40,450**	*18 900 ***40,450**	*14 250 ***30,750**	13 850 **29,900**	*12 000 ***26,050**	9900 **21,300**	*11 100 ***24,400**	7950 **17,550**	8610 **340**
3000 mm **120 in**	kg **lb**			* ***48,100**	* **42,050**	*15 800 ***34,150**	13 050 **28,150**	*12 750 ***27,600**	9500 **20,450**	10 800 **23,850**	7350 **16,250**	8880 **350**
1500 mm **60 in**	kg **lb**					*16 900 ***36,500**	12 450 **26,800**	*13 300 ***28,800**	9150 **19,700**	10 600 **23,400**	7200 **15,850**	8890 **350**
0 mm **0 in**	kg **lb**			*22 650 ***49,200**	18 450 **39,650**	*17 050 ***36,950**	12 100 **26,100**	13 400 **28,800**	8900 **19,200**	10 950 **24,150**	7400 **16,250**	8630 **340**
–1500 mm **–60 in**	kg **lb**	*17 250 ***39,300**	*17 250 ***39,300**	*20 900 ***45,450**	18 550 **39,800**	*16 250 ***35,150**	12 050 **25,950**	*12 650 ***27,300**	8900 **19,150**	*11 350 ***25,000**	8050 **17,800**	8090 **320**
–3000 mm **–120 in**	kg **lb**	*21 500 ***46,850**	*21 500 ***46,850**	*18 000 ***38,950**	*18 000 ***38,950**	*14 150 ***30,400**	12 200 **26,350**			*11 100 ***24,350**	9600 **21,300**	7200 **290**
–4500 mm **–180 in**	kg **lb**			*12 850 ***27,200**	*12 850 ***27,200**					*9750 ***21,200**	*9750 ***21,200**	5780 **230**

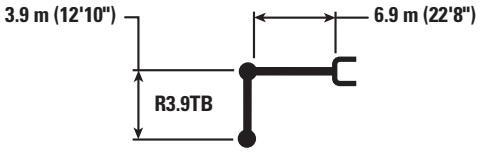
* **ISO 10567**

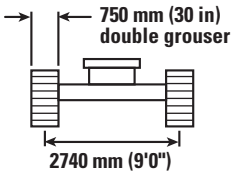
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

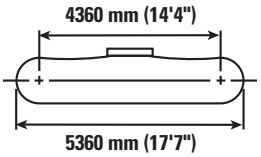
Lift capacity stays with ±5% for all available track shoes.

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

Reach Boom (Long Fix Undercarriage) Lift Capacities – Counterweight: 9.0 mt (9.9 t) – Heavy Lift: Off







		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 **inch**
9000 mm **360 in**	kg **lb**													*7250 ***16,100**	*7250 ***16,100**	7860 **310**
7500 mm **300 in**	kg **lb**													*6950 ***15,300**	*6950 ***15,300**	8970 **350**
6000 mm **240 in**	kg **lb**									*9750 ***21,200**	*9750 ***21,200**	*9150 ***20,000**	8050 **17,250**	*6850 ***15,100**	*6850 ***15,100**	9720 **380**
4500 mm **180 in**	kg **lb**							*12 450 ***26,850**	*12 450 ***26,850**	*10 650 ***23,100**	10 450 **22,450**	*9550 ***20,850**	7850 **16,850**	*7000 ***15,350**	6400 **14,100**	10 190 **400**
3000 mm **120 in**	kg **lb**					*19 750 ***42,450**	*19 750 ***42,450**	*14 400 ***31,050**	13 750 **29,650**	*11 700 ***25,350**	9950 **21,400**	*10 100 ***22,000**	7550 **16,300**	*7300 ***16,050**	6000 **13,250**	10 420 **410**
1500 mm **60 in**	kg **lb**					*22 550 ***48,700**	19 450 **41,900**	*16 050 ***34,650**	12 950 **27,900**	*12 650 ***27,400**	9500 **20,450**	*10 650 ***23,100**	7300 **15,750**	*7850 ***17,250**	5850 **12,900**	10 430 **410**
0 mm **0 in**	kg **lb**			***19,450**	***19,450**	*22 500 ***50,750**	18 750 **40,300**	*16 950 ***36,750**	12 400 **26,750**	*13 300 ***28,750**	9150 **19,700**	*10 950 ***23,750**	7100 **15,300**	*8700 ***19,100**	5950 **13,050**	10 220 **410**
–1500 mm **–60 in**	kg **lb**			*14 500 ***32,650**	*14 500 ***32,650**	*22 900 ***49,650**	18 550 **39,850**	*17 050 ***36,900**	12 150 **26,200**	*13 400 ***28,950**	8950 **19,250**	*10 850 ***23,450**	7000 **15,050**	*9750 ***21,450**	6250 **13,800**	9770 **390**
–3000 mm **–120 in**	kg **lb**	***36,550**	***36,550**	*21 150 ***47,700**	*21 150 ***47,700**	*21 250 ***46,050**	18 600 **40,000**	*16 200 ***35,050**	12 100 **26,100**	*12 750 ***27,500**	8900 **19,200**	*10 000	7000	*9900 ***21,800**	6950 **15,400**	9050 **360**
–4500 mm **–180 in**	kg **lb**			*24 300 ***52,400**	*24 300 ***52,400**	*18 350 ***39,550**	*18 350 ***39,550**	*14 250 ***30,550**	12 300 **26,500**	*10 950 ***23,200**	9050 **19,600**			*9900 ***21,750**	8400 **18,700**	7970 **320**
–6000 mm **–240 in**	kg **lb**					*13 450 ***28,300**	*13 450 ***28,300**	*10 150 ***20,900**	*10 150 ***20,900**					*9200 ***20,100**	*9200 ***20,100**	6380 **250**

* **ISO 10567**

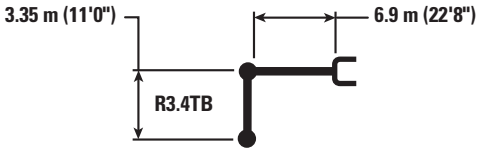
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

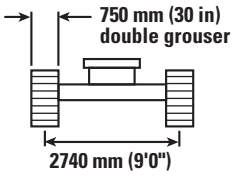
Lift capacity stays with ±5% for all available track shoes.

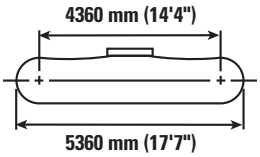
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

349D2/D2 L Hydraulic Excavator Specifications

Reach Boom (Long Fix Undercarriage) Lift Capacities – Counterweight: 9.0 mt (9.9 t) – Heavy Lift: Off







		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		9000 mm/360 in				
														mm **inch**
9000 mm **360 in**	kg **lb**											*8300 ***18,450**	*8300 ***18,450**	7300 **290**
7500 mm **300 in**	kg **lb**							*9950 ***21,850**	*9950 ***21,850**			*7800 ***17,250**	*7800 ***17,250**	8490 **330**
6000 mm **240 in**	kg **lb**							*10 400 ***22,650**	*10 400 ***22,650**	*9750 ***18,650**	7900 **16,950**	*7650 ***16,900**	7500 **16,700**	9280 **370**
4500 mm **180 in**	kg **lb**			*17 350 ***37,250**	*17 350 ***37,250**	*13 300 ***28,750**	*13 300 ***28,750**	*11 250 ***24,400**	10 300 **22,150**	*10 050 ***21,900**	7750 **16,650**	*7750 ***17,050**	6750 **14,950**	9770 **390**
3000 mm **120 in**	kg **lb**			*21 250 ***45,650**	20 350 **43,950**	*15 200 ***32,750**	13 550 **29,200**	*12 250 ***26,500**	9850 **21,200**	*10 500 ***22,850**	7550 **16,200**	*8100 ***17,750**	6400 **14,050**	10 010 **400**
1500 mm **60 in**	kg **lb**			*17 600 ***42,150**	*17 600 **41,300**	*16 600 ***35,900**	12 850 **27,650**	*13 050 ***28,300**	9450 **20,350**	*10 950 ***23,700**	7300 **15,700**	*8650 ***19,000**	6250 **13,750**	10 020 **400**
0 mm **0 in**	kg **lb**			*19 850 ***46,050**	18 750 **40,300**	*17 250 ***37,300**	12 400 **26,700**	*13 500 ***29,250**	9150 **19,700**	*11 100 ***24,000**	7150 **15,350**	*9550 ***21,050**	6350 **14,000**	9800 **390**
–1500 mm **–60 in**	kg **lb**	*14 100 ***31,900**	*14 100 ***31,900**	*22 350 ***48,550**	18 700 **40,200**	*16 950 ***36,750**	12 250 **26,350**	*13 350 ***28,900**	9000 **19,400**	*10 700 ***23,050**	7050 **15,250**	*10 150 ***22,350**	6750 **14,900**	9330 **370**
–3000 mm **–120 in**	kg **lb**	*22 600 ***51,000**	*22 600 ***51,000**	*20 300 ***43,950**	18 900 **40,550**	*15 750 ***34,050**	12 250 **26,450**	*12 400 ***26,600**	9050 **19,500**			*10 200 ***22,400**	7650 **16,850**	8570 **340**
–4500 mm **–180 in**	kg **lb**	*21 200 ***45,650**	*21 200 ***45,650**	*16 850 ***36,200**	*16 850 ***36,200**	*13 200 ***28,200**	12 550 **27,050**					*9850 ***21,650**	9450 **21,050**	7430 **290**

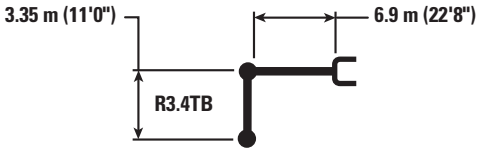
* ISO 10567

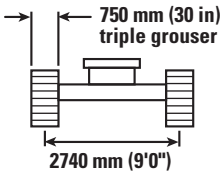
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

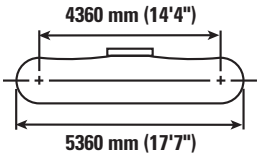
Lift capacity stays with ±5% for all available track shoes.

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

Reach Boom (Long Fix Undercarriage) Lift Capacities – Counterweight: 9.0 mt (9.9 t) – Heavy Lift: Off







		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		9000 mm/360 in				
														mm **inch**
9000 mm **360 in**	kg **lb**											*8300 ***18,450**	*8300 ***18,450**	7300 **290**
7500 mm **300 in**	kg **lb**							*9950 ***21,850**	*9950 ***21,850**			*7800 ***17,250**	*7800 ***17,250**	8490 **330**
6000 mm **240 in**	kg **lb**							*10 400 ***22,650**	*10 400 ***22,650**	*9750 ***18,650**	7900 **16,900**	*7650 ***16,900**	7500 **16,650**	9280 **370**
4500 mm **180 in**	kg **lb**			*17 350 ***37,250**	*17 350 ***37,250**	*13 300 ***28,750**	*13 300 ***28,750**	*11 250 ***24,400**	10 250 **22,100**	*10 050 ***21,900**	7750 **16,600**	*7750 ***17,050**	6750 **14,900**	9770 **390**
3000 mm **120 in**	kg **lb**			*21 250 ***45,650**	20 300 **43,850**	*15 200 ***32,750**	13 500 **29,150**	*12 250 ***26,500**	9800 **21,150**	*10 500 ***22,850**	7500 **16,150**	*8100 ***17,750**	6350 **14,000**	10 010 **400**
1500 mm **60 in**	kg **lb**			*17 600 ***42,150**	*17 600 **41,150**	*16 600 ***35,900**	12 800 **27,600**	*13 050 ***28,300**	9400 **20,300**	*10 950 ***23,700**	7300 **15,650**	*8650 ***19,000**	6200 **13,700**	10 020 **400**
0 mm **0 in**	kg **lb**			*19 850 ***46,050**	18 700 **40,200**	*17 250 ***37,300**	12 350 **26,650**	*13 500 ***29,250**	9100 **19,650**	*11 100 ***24,000**	7100 **15,300**	*9550 ***21,050**	6350 **13,950**	9800 **390**
–1500 mm **–60 in**	kg **lb**	*14 100 ***31,900**	*14 100 ***31,900**	*22 350 ***48,550**	18 650 **40,100**	*16 950 ***36,750**	12 200 **26,250**	*13 350 ***28,900**	9000 **19,350**	*10 700 ***23,050**	7050 **15,200**	*10 150 ***22,350**	6750 **14,850**	9330 **370**
–3000 mm **–120 in**	kg **lb**	*22 600 ***51,000**	*22 600 ***51,000**	*20 300 ***43,950**	18 850 **40,450**	*15 750 ***34,050**	12 250 **26,350**	*12 400 ***26,600**	9000 **19,450**			*10 200 ***22,400**	7600 **16,800**	8570 **340**
–4500 mm **–180 in**	kg **lb**	*21 200 ***45,650**	*21 200 ***45,650**	*16 850 ***36,200**	*16 850 ***36,200**	*13 200 ***28,200**	12 500 **26,950**					*9850 ***21,650**	9400 **21,000**	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.

349D2/D2 L Hydraulic Excavator Specifications

349D2 L Bucket Specifications and Compatibility

		Width		Capacity		Weight		Fill	349D2 L – 750 TG				
									ME Boom		Reach Boom		
	Linkage	mm	in	m^3	yd^3	kg	lb	%	M2.5	M3.0	R2.9	R3.35	R3.9
Without Pin Grabber Coupler													
General Duty (GD)	TB	1370	54	1.87	2.44	1755	3,868	100%			●	●	●
	UB	1450	58	2.39	3.13	2324	5,122	100%	●	◉			
	UB	1550	62	2.61	3.41	2418	5,329	100%	◉	⊖			
	UB	2000	80	3.60	4.71	2881	6,350	100%	○	◇*			
	UB	1950	77	3.43	4.48	2725	6,006	100%	○	○			
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%			◇	◇	◇
General Duty Wide Tip (GDC-WT)	TB	900	36	1.35	1.77	1505	3,317	100%			●	●	●
	TB	1350	54	2.22	2.90	1951	4,300	100%			●	◉	◉
	TB	1500	60	2.52	3.29	2067	4,556	100%			◉	⊖	⊖
	TB	1650	66	2.81	3.68	2233	4,922	100%			⊖	⊖	○
	TB	1800	72	3.11	4.07	2350	5,179	100%			○	○	○
	TB	1950	78	3.41	4.46	2516	5,545	100%			○	◇	◇
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	2.41	3.16	2065	4,551	100%			◉	◉	⊖
	TB	1500	60	2.14	2.80	2125	4,684	100%			●	◉	◉
	TB	1650	66	2.41	3.15	2210	4,871	100%			◉	⊖	⊖
	TB	1650	66	2.41	3.15	2286	5,039	100%			◉	⊖	⊖
	TB	1650	66	2.41	3.16	2259	4,979	100%			◉	⊖	⊖
	TB	1800	72	2.69	3.52	2423	5,340	100%			⊖	⊖	○
	TB	1850	74	2.78	3.64	2420	5,334	100%			⊖	○	○
	TB	1850	73	2.69	3.52	2387	5,261	100%			⊖	⊖	○
	TB	1850	73	2.69	3.52	2401	5,292	100%			⊖	⊖	○
	TB	900	36	1.077	1.41	1563	3,445	100%			●	●	●
	TB	1050	42	1.337	1.75	1655	3,648	100%			●	●	●
	TB	1200	48	1.600	2.09	1814	3,998	100%			●	●	●
	TB	1350	54	1.868	2.44	1941	4,278	100%			●	●	●
	TB	1500	60	2.140	2.80	2104	4,637	100%			●	◉	◉
	TB	1650	66	2.414	3.16	2266	4,994	100%			◉	⊖	⊖
(continued)	TB	1800	72	2.692	3.52	2395	5,279	100%			⊖	⊖	○
							Maximum load pin-on (payload + bucket)	kg	7645	6929	6983	6523	6114
								lb	16,850	15,272	15,391	14,377	13,475

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 Long tips.

*For light dirt applications only. Consult your dealer to understand your application before using this bucket in combination with this stick.

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)
- ◇ 900 kg/m^3 (1,500 lb/yd^3)

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.

349D2 L Bucket Specifications and Compatibility

		Width		Capacity		Weight		Fill	349D2 L – 750 TG				
									ME Boom		Reach Boom		
	Linkage	mm	in	m^3	yd^3	kg	lb	%	M2.5	M3.0	R2.9	R3.35	R3.9
Without Pin Grabber Coupler (continued)													
Heavy Duty (HD) (continued)	TB	1200	48	1.49	1.95	1930	4,254	100%			●	●	●
	TB	1350	54	1.74	2.27	2063	4,547	100%			●	●	●
	TB	1500	60	1.98	2.59	2233	4,922	100%			●	●	◉
	TB	1650	66	2.23	2.91	2403	5,296	100%			◉	◉	⊖
	TB	1850	74	2.56	3.34	2585	5,697	100%			⊖	⊖	○
	UB	1650	65	2.77	3.62	2562	5,647	100%	◉	⊖			
	UB	1850	73	3.19	4.16	2735	6,028	100%	⊖	○			
	UB	1950	77	3.43	4.48	2898	6,387	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	1 79	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	2340	5,157	90%			●	●	◉
	TB	1550	61	2.14	2.80	2381	5,248	90%			●	●	◉
	TB	1700	67	2.41	3.16	2524	5,563	90%			◉	◉	⊖
	TB	1700	67	2.41	3.16	2494	5,497	90%			◉	◉	⊖
	TB	1850	74	2.69	3.52	2726	6,008	90%			⊖	⊖	○
	TB	1900	75	2.78	3.64	2716	5,986	90%			⊖	⊖	○
	TB	1200	48	1.60	2.09	1946	4,289	90%			●	●	●
	TB	1560	61	2.14	2.80	2198	4,844	90%			●	●	◉
	TB	1694	66	2.41	3.16	2444	5,387	90%			◉	◉	⊖
	TB	1400	55	1.87	2.44	2157	4,754	90%			●	●	●
	UB	1450	58	2.39	3.13	2540	5,598	90%	●	◉			
	UB	1550	62	2.61	3.41	2648	5,836	90%	●	◉			
	UB	1650	65	2.77	3.62	2729	6,015	90%	◉	⊖			
	UB	1850	73	3.21	4.20	2987	6,583	90%	⊖	○			
	UB	1950	77	3.43	4.48	3058	6,740	90%	○	○			
	UB	1550	62	2.61	3.41	2610	5,752	90%	●	◉			
	UB	1850	73	3.21	4.20	2937	6,473	90%	⊖	○			
Severe Duty Power (SDP)	TB	1750	70	2.40	3.14	2454	5,409	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%			●	●	●
	TB	1700	67	2.41	3.15	2765	6,094	90%			◉	⊖	⊖
	UB	1550	62	2.61	3.41	3091	6,813	90%	◉	⊖			
	UB	1650	65	2.77	3.62	3192	7,035	90%	⊖	○			
	UB	1550	62	2.61	3.41	3142	6,925	90%	◉	⊖			
Maximum load pin-on (payload + bucket)								kg	7645	6929	6983	6523	6114
								lb	16,850	15,272	15,391	14,377	13,475

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 Long 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)
- ◇ 900 kg/m^3 (1,500 lb/yd^3)

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349D2/D2 L Hydraulic Excavator Specifications

349D2 L Bucket Specifications and Compatibility

		Width		Capacity		Weight		Fill	349D2 L – 750 TG				
									ME Boom		Reach Boom		
	Linkage	mm	in	m^3	yd^3	kg	lb	%	M2.5	M3.0	R2.9 HD	R3.35 HD	R3.9 HD
With Pin Grabber Quick Coupler													
General Duty (GD)	TB	1370	54	1.87	2.44	1755	3,868	100%			●	●	●
	UB	1450	58	2.39	3.13	2324	5,122	100%	●	◉			
	UB	1550	62	2.61	3.41	2418	5,329	100%	◉	⊖			
	UB	2000	80	3.60	4.71	2881	6,350	100%	○	◇*			
	UB	1950	77	3.43	4.48	2725	6,006	100%	○	○			
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%			◇	◇	◇
General Duty Wide Tip (GDC-WT)	TB	900	36	1.35	1.77	1505	3,317	100%			●	●	●
	TB	1350	54	2.22	2.90	1951	4,300	100%			●	◉	◉
	TB	1500	60	2.52	3.29	2067	4,556	100%			◉	⊖	⊖
	TB	1650	66	2.81	3.68	2233	4,922	100%			⊖	⊖	○
	TB	1800	72	3.11	4.07	2350	5,179	100%			○	○	○
	TB	1950	78	3.41	4.46	2516	5,545	100%			○	◇	◇
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	2.41	3.16	2065	4,551	100%			◉	◉	⊖
	TB	1500	60	2.14	2.80	2125	4,684	100%			●	◉	◉
	TB	1650	66	2.41	3.15	2210	4,871	100%			◉	⊖	⊖
	TB	1650	66	2.41	3.15	2286	5,039	100%			◉	⊖	⊖
	TB	1650	66	2.41	3.16	2259	4,979	100%			◉	⊖	⊖
	TB	1800	72	2.69	3.52	2423	5,340	100%			⊖	⊖	○
	TB	1850	74	2.78	3.64	2420	5,334	100%			⊖	○	○
	TB	1850	73	2.69	3.52	2387	5,261	100%			⊖	⊖	○
	TB	1850	73	2.69	3.52	2401	5,292	100%			⊖	⊖	○
	TB	900	36	1.077	1.41	1563	3,445	100%			●	●	●
	TB	1050	42	1.337	1.75	1655	3,648	100%			●	●	●
	TB	1200	48	1.600	2.09	1814	3,998	100%			●	●	●
	TB	1350	54	1.868	2.44	1941	4,278	100%			●	●	●
	TB	1500	60	2.140	2.80	2104	4,637	100%			●	◉	◉
	TB	1650	66	2.414	3.16	2266	4,994	100%			◉	⊖	⊖
(continued)	TB	1800	72	2.692	3.52	2395	5,279	100%			⊖	⊖	○
							Maximum load pin-on (payload + bucket)	kg	6812	6096	6150	5690	5281
								lb	15,014	13,436	13,555	12,541	11,639

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 Long tips.

*For light dirt applications only. Consult your dealer to understand your application before using this bucket in combination with this stick.

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)
- ◇ 900 kg/m^3 (1,500 lb/yd^3)

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349D2 L Bucket Specifications and Compatibility

		Width		Capacity		Weight		Fill	349D2 L – 750 TG				
									ME Boom		Reach Boom		
	Linkage	mm	in	m^3	yd^3	kg	lb	%	M2.5	M3.0	R2.9 HD	R3.35 HD	R3.9 HD
With Pin Grabber Quick Coupler (continued)													
Heavy Duty (HD) (continued)	TB	1200	48	1.49	1.95	1930	4,254	100%			●	●	●
	TB	1350	54	1.74	2.27	2063	4,547	100%			●	●	●
	TB	1500	60	1.98	2.59	2233	4,922	100%			●	●	◉
	TB	1650	66	2.23	2.91	2403	5,296	100%			◉	◉	⊖
	TB	1850	74	2.56	3.34	2585	5,697	100%			⊖	⊖	○
	UB	1650	65	2.77	3.62	2562	5,647	100%	◉	⊖			
	UB	1850	73	3.19	4.16	2735	6,028	100%	⊖	○			
	UB	1950	77	3.43	4.48	2898	6,387	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	2340	5,157	90%			●	●	◉
	TB	1550	61	2.14	2.80	2381	5,248	90%			●	●	◉
	TB	1700	67	2.41	3.16	2524	5,563	90%			◉	◉	⊖
	TB	1700	67	2.41	3.16	2494	5,497	90%			◉	◉	⊖
	TB	1850	74	2.69	3.52	2726	6,008	90%			⊖	⊖	○
	TB	1900	75	2.78	3.64	2716	5,986	90%			⊖	⊖	○
	TB	1200	48	1.60	2.09	1946	4,289	90%			●	●	●
	TB	1560	61	2.14	2.80	2198	4,844	90%			●	●	◉
	TB	1694	66	2.41	3.16	2444	5,387	90%			◉	◉	⊖
	TB	1400	55	1.87	2.44	2157	4,754	90%			●	●	●
	UB	1450	58	2.39	3.13	2540	5,598	90%	●	◉			
	UB	1550	62	2.61	3.41	2648	5,836	90%	●	◉			
	UB	1650	65	2.77	3.62	2729	6,015	90%	◉	⊖			
	UB	1850	73	3.21	4.20	2987	6,583	90%	⊖	○			
	UB	1950	77	3.43	4.48	3058	6,740	90%	○	○			
	UB	1550	62	2.61	3.41	2610	5,752	90%	●	◉			
	UB	1850	73	3.21	4.20	2937	6,473	90%	⊖	○			
Severe Duty Power (SDP)	TB	1750	70	2.40	3.14	2454	5,409	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%			●	●	●
	TB	1700	67	2.41	3.15	2765	6,094	90%			◉	⊖	⊖
	UB	1550	62	2.61	3.41	3091	6,813	90%	◉	⊖			
	UB	1650	65	2.77	3.62	3192	7,035	90%	⊖	○			
	UB	1550	62	2.61	3.41	3142	6,925	90%	◉	⊖			
Maximum load pin-on (payload + bucket)								kg	6812	6096	6150	5690	5281
								lb	15,014	13,436	13,555	12,541	11,639

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 Long 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)
- ◇ 900 kg/m^3 (1,500 lb/yd^3)

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349D2/D2 L Hydraulic Excavator Specifications

349D2 L Bucket Specifications and Compatibility

		Width		Capacity		Weight		Fill	349D2 L – 750 TG				
									ME Boom		Reach Boom		
	Linkage	mm	in	m^3	yd^3	kg	lb	%	M2.5	M3.0	R2.9 HD	R3.35 HD	R3.9 HD
With Quick Coupler (CW55)													
Heavy Duty (HD)	TB	1650	66	2.41	3.15	2196	4,840	100%			◉	⊖	⊖
	UB	1650	65	2.77	3.62	2479	5,464	100%	◉	⊖			
	UB	1850	73	3.19	4.16	2664	5,871	100%	⊖	○			
Severe Duty (SD)	UB	1550	62	2.61	3.41	2570	5,664	90%	●	◉			
	UB	1650	65	2.77	3.62	2655	5,852	90%	◉	⊖			
Extreme Duty (XD)	UB	1550	62	2.61	3.41	3087	6,804	90%	◉	⊖			
Maximum load pin-on (payload + bucket)								kg	6805	6089	6223	5763	5354
								lb	14,998	13,420	13,715	12,702	11,800

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 Long 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)
- ◇ 900 kg/m^3 (1,500 lb/yd^3)

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349D2/D2 L Work Tool Offering Guide*

Boom Type	Reach 6.9 m (22'8")			Mass 6.55 m (21'6")	
Stick Size	**Reach 2.9 m (9'6")**	**Reach 3.35 m (11'0")**	**Reach 3.9 m (12'10")**	**Mass 2.5 m (8'2")**	**Mass 3.0 m (9'10")**
Hydraulic Hammer	H160Es H180Es	H160Es H180Es **	H160Es H180Es ***	H160Es H180Es	H160Es H180Es
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 MP40 CC Jaw *** # MP40 CR Jaw *** # MP40 S Jaw *** #	MP30 CC Jaw MP30 CR Jaw MP30 PP Jaw MP30 PS Jaw MP30 S Jaw MP30 TS Jaw ^
Crusher	P335	P335	P335 **	P335 P360 ***	P335 P360 *** #
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					
Clamshells					
Rippers	These work tools are available for the 349D2 L. Consult your Cat dealer for proper match.				
Center-Lock Pin Grabber Coupler					
Dedicated Quick Coupler					

* Offerings not available in all areas. Matches are dependent on excavator configurations. Consult your Cat dealer to determine what is offered in your area and for proper work tool match.

** Pin-on or CW coupler

*** Pin-on only

\# Over the front only

Boom mount

^ Over the front only with CL coupler

349D2/D2 L Standard Equipment

Standard Equipment

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

ENGINE

- Cat C13 engine
- Meets U.S. EPA Tier 2, EU Stage II and China Tier 2 emission standards
- 2300 m (7,500 ft) altitude capability
- Radial seal air filters (primary and secondary filter)
- Glow plugs (for cold weather start)
- Automatic engine speed control with one touch low idle
- High ambient cooling package 52° C (125° F)
- Water separator with water level indicator sensor
- Waved fin radiator with space for cleaning
- Two speed travel
- Electric priming pump
- Fuel pressure differential gauge
- ECO and HHP

HYDRAULIC SYSTEM

- Regeneration circuits for boom and stick
- Auxiliary hydraulic valve
- Reverse swing damping valve
- Automatic swing parking brake
- Boom drift reducing valve
- Boom lowering device for back-up
- Stick drift reducing valve
- Straight travel hydraulic circuit
- High performance hydraulic return filters

CAB

- Pressurized cab
- Fully adjustable mechanical suspension seat
- Adjustable armrest
- Seat belt, retractable (51 mm [2 in] width)
- 70/30 split front windshield
- Laminated upper front windshield and tempered other windows
- Sliding upper door window
- Openable front windshield with assist device
- Pillar mounted upper windshield wiper and washer
- Bi-level air conditioner (automatic) with defroster (pressurized function)
- Color LCD display with warning, filter/ fluid change, and working hour information
- Control lever joysticks
- Hydraulic activation control lever (lock out for all controls)
- Travel control pedals with removable hand levers
- Radio mounting (DIN size)
- Radio ready
- 12V – 2× maximum 10A power supply
- Two stereo speakers
- Beverage holder
- Coat hook
- Openable roof hatch
- Washable floor mat

UNDERCARRIAGE

- Idler and center section track guiding guard
- Towing eye on base frame
- Grease lubricated track

ELECTRICAL

- Batteries (2 × 750 CCA)
- 75 amp alternator
- 24V – 7.5 kW starter motor

LIGHTS

- Left boom working light
- Right working light mounted in the storage box
- Interior lighting

SAFETY & SECURITY

- Cat one key security system
- Door and compartment locks
- Signaling/warning horn
- Rearview mirrors
- Fire wall between engine and pump compartment
- Emergency engine shutoff switch
- Emergency exit rear window
- Battery disconnect switch

COUNTERWEIGHT

- 9.0 mt (9.9 t) counterweight

TECHNOLOGY

- Product Link
- Cat Electronic Technician data link

Optional Equipment

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

ENGINE

- Starting kit, cold weather, –32° C (–25.6° F), ether or block heater
- Air prefilter

HYDRAULIC SYSTEM

- Auxiliary hydraulics options
- Hammer circuit, foot pedal operated
- Two way combined circuit, foot pedal operated
- Two way combined circuit, joystick operated
- Two way combined circuit with medium pressure, joystick operated
- Auxiliary hydraulic lines for booms and sticks

UNDERCARRIAGE AND GUARDS

- 600 mm (24 in) double grouser shoes
- 600 mm (24 in) triple grouser shoes
- 750 mm (30 in) double grouser shoes
- 750 mm (30 in) triple grouser shoes
- 900 mm (35 in) triple grouser shoes
- Full length track guiding guard (2 pieces)
- Guard package

LIGHTS

- Cab mounted working lights
- Right mounted boom light for reach boom

TECHNOLOGY

- AccuGrade™ Ready Option (ARO)

FRONT LINKAGE

- Booms
  - Reach 6.9 m (22'8")
  - Mass 6.55 m (21'6")
- Sticks
  - Reach 2.9 m (9'6")
  - Reach 3.35 m (11'0")
  - Reach 3.9 m (12'10")
  - Mass 2.5 m (8'2")
  - Mass 3.0 m (9'10")

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

AEHQ7227-01 (04-2015)
Replaces AEHQ7227

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