336E L

Hydraulic Excavator

Engine		
Engine Model	Cat® C9.3 (ATAAC)	
Net Power – SAE J1349	224 kW	300 hp

Drive		
Maximum Travel Speed	4.9 km/h	3 mph
Maximum Drawbar Pull	295 kN	66,319 lbf
Weight		
Minimum Weight	36 100 kg	79,600 lb
Maximum Weight	39 100 kg	86,200 lb

Introduction

Since its introduction in the 1990s, the 300 Series family of excavators has become the industry standard in general, quarry, and heavy construction applications. The all-new E Series will continue that trend-setting standard.

The first model in the new family, the 336E, meets today's U.S. emissions standards. It is also built with several new fuel-saving and comfort-enabling features and benefits that will delight owners and operators.

If you are looking for more productivity and comfort, less fuel consumption and emissions, and easier and more sensible serviceability, you will find it in the all-new 336E and the E Series family of excavators.

Contents

Hydraulics

Power to move more dirt, rock, and debris with speed and precision

Hydraulic Horsepower

Hydraulic horsepower is the actual machine power available to do work through implements and work tools. It's much more than just the engine power under the hood – it's a core strength that differentiates Cat machines from other brands. In fact, hydraulic horsepower for the 336E increased from the previous series' output due to pump and other system improvements. This translates into the new E Series moving more material in less time.

Main Control Valve and Auxiliary Valves

The 336E uses a high-pressure system to tackle the toughest of work in short order. A new one-piece, cast-block, back-to-back main control valve features resized and reshaped oil passages to improve efficiency and serviceability; stackable auxiliary valve attachments mount on top of the main valve, which allows for auxiliary hydraulic lines and valve configurations to be simplified for greater reliability.

Return Filter

The return filter is a capsule-type design with a cartridge inside. Unlike many competitors' offerings, the Cat cartridge features a handle to help remove and change without oil spillage or contamination. A sensor attached to the filter warns the operator if it is full or exceeds a certain pressure level.

Swing Priority Circuit

The swing priority circuit on the 336E uses a new electric valve that's operated by the machine's improved Electronic Control Module (ECM). Compared to using a hydraulic valve, an electric valve allows for more finely tuned control, which is critical during material loading.

Electric Boom Regeneration Valve

A new electric boom regeneration valve minimizes pump flow when the boom lowers down, which improves fuel economy. It is optimized for any dial speed setting being used by the operator, which in turn aids controllability and enhances component durability.

Stick Regeneration Circuit

The 336E regenerates the flow of oil from the rod end of the stick cylinder to the head end of the stick cylinder during low-load, stick-in operation – an approach that saves energy and expense.

Operator Station

Comfort and convenience to keep people productive

Seats

A new seat range includes mechanical, air suspension, heated, and air cooled options. Each option includes a reclining back, upper and lower seat slide adjustments, and height and tilt angle adjustments to meet operator needs for comfort and productivity.

Controls

The right and left joystick consoles can be adjusted to meet the operator's desired preference, making him (or her) more comfortable and productive during the course of a day.

With the touch of the button, one-touch idle reduces engine speed to help save fuel; touch it again or move the joystick and the machine returns to normal operating level.

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

Monitor

The 336E is equipped with a new LCD (Liquid Crystal Display) monitor that's 40% bigger than the previous model's with higher resolution for better visibility. In addition to an improved keypad and added functionality, it is programmable to provide information in a choice of 42 languages to support today's diverse workforce.

A new "Engine Shutdown Setting" accessible through the monitor allows owners and operators to specify how long the machine should idle before shutting down the engine, which can save significant amounts of fuel.

In addition, the monitor serves as a display for the optional rearview camera. Up to two different camera images can be displayed on the screen.

MP3-Ready Radio and Power Supply

The standard radio is equipped with a new auxiliary audio port for MP3 players. Two 12-volt power supply sockets are located near key storage areas for charging.

Storage

Storage spaces are located in the front, rear, and side consoles. New space near the auxiliary power supply holds MP3 players and cell phones. The drink holder accommodates large mugs with handles, and a new shelf behind the seat stores large lunch or toolboxes.

Automatic Climate Control

The climate control system features five air outlets with positive filtered ventilation, which makes working in the heat and cold much more pleasant.

Engine

Reduced emissions, economical and reliable performance

Cat® C9.3 ACERT™ Engine

The C9.3 ACERT engine delivers more horsepower using less fuel than the previous series engine.

Emissions Solution

The C9.3 ACERT engine is equipped to meet current U.S. Tier 4 Interim regulations. Driven by customer input, Caterpillar's aftertreatment regeneration solution ensures the machine works as normal with no operator intervention needed.

The machine comes with two programmable modes of operation: automatic and manual regeneration.

In automatic mode, the machine starts the regeneration process once the filtering system reaches a certain level and conditions are optimal. The system will not interrupt the work process and can regenerate during machine operation.

Manual mode enables the operator to override the automatic mode. With a touch of a button (1) inside the cab, this mode allows the operator to move the machine from flammable or heat-restricted areas before initiating the regeneration process.

Bio Diesel-Ready Fuel System

The C9.3 ACERT engine is equipped with a high-pressure common rail fuel system that includes a new electric priming pump and three-layer fuel hose to allow the use of bio fuel up to B20 (bio fuel 20% mixture).

Cooling System

The high-ambient cooling system features a fixed-speed fan and a side-by-side-mounted radiator and oil and air coolers for easy cleaning.

Speed and Power Control

The new E Series features isochronous speed control to maintain a constant speed – regardless of load – to improve fuel economy. Three different power modes are offered: high power, standard power, and economy power. The operator can easily change between modes through the monitor or console switch to meet the needs for the job at hand – all to help manage and conserve fuel.

Structures and Undercarriage

Built to work in rugged environments

Frame

The upper frame includes new reinforced mountings to support a new Roll-Over Protective Structure (ROPS) cab; the lower frame is reinforced to increase component durability.

Undercarriage

Standard and Long undercarriage systems are available to support various work applications.

Heavy-duty track rollers, precision forged carrier rollers, press-fit pin master joints, and enhanced track shoe bolts improve durability and reduce the risk of machine downtime and the need and cost to replace components.

A new segmented three-piece guiding guard is now offered to maintain track alignment and improve performance in multiple applications.

A redesigned motor housing prevents mud packing and debris buildup around seals.

Counterweights

Two counterweight options are available: 6.0 mt (6.6 t) and 7.0 mt (7.7 t). Each is designed to match the height of the machine.

Regardless of choice, counterweights are bolted directly to the main frame using four M36 bolts for rigidity and feature an integrated housing for the new rearview camera option.

Front Linkage

Made for high stress and long service life

Booms and Sticks

The 336E 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.

Selections

There are three boom and stick options: HD, ES, and ME. Sticks match the HD, ES, and ME boom descriptions and applications below.

HD = Heavy Duty. This type of boom is best used for reach applications where conditions are optimal such as excavating basements, trenching for utility lines, and sewer applications. The combination of boom and stick is matched to the digging conditions.

ES = Extreme Service. This type of boom is best used for demolition applications or extreme applications where stress loads on the boom are increased. It should be used for demanding, harsh applications such as 100% rock and extensive hammer use.

ME = Mass Excavation. This type of boom is best used for quarry and other demanding applications. Used for high-volume production and loading, the ME front provides higher digging forces due to the geometry of the boom and stick. Bucket linkage and cylinders are more durable for excellent productivity in harsh applications.

Work Tools

You can dig, hammer, rip, and cut with confidence.

Couplers: Quick Tool Changes

Imagine the productivity you'll achieve with a quick coupler. Combine a robust coupler with a common work tool inventory that can be shared between same size machines and you'll get performance and flexibility on every job. The Cat Center-Lock™ pin grabber coupler features a patented locking system and highly visible lock. You can clearly see when the coupler is engaged or disengaged from the attachment.

Work Tools: Cut, Crush, Pulverize and Load

No matter your specialty, Caterpillar provides tools that are perfectly matched to get the most out of your Cat machine – quickly and efficiently. Auxiliary hydraulic circuits are available to integrate any Cat work tool with your 336E L.

Buckets: Dig, Move, Load

Cat buckets are designed to fill efficiently so you notice a fast, smooth cycle, which means high productivity each time you dig. Wear characteristics of general-duty, heavy-duty, and severe-duty buckets give you solid performance in a wide variety of material abrasions. Ditch cleaning and other specialty buckets are available when needed.

GRAB, SORT, LOAD

Pro Series Hydraulic Thumbs

Stiff Link Thumbs

Demolition & Sorting Grapple

Contractors' Grapples

Trash Grapples

SWAP TOOLS

Center-Lock Pin Grabber Coupler

DIG & PACK

Ditch Cleaning and Tilt Buckets

General Duty Buckets

Heavy Duty Buckets

Severe Duty Buckets

Extreme Duty Buckets

Vibratory Plate Compactors

CUT, CRUSH, BREAK & RIP

Multi-Processors

Scrap & Demolition Shears

Secondary Pulverizers

Hydraulic Hammers

Rippers

Integrated Technologies

Solutions that make work easier and more efficient

Electric Boom and Stick Regeneration Valve

The 336E features unique electric boom and stick regeneration valves. The valves use gravity during typical “boom down” or “stick in” operations to regenerate flow of oil from the head end of the cylinder to the rod end of the cylinder instead of sending it all the way back to the hydraulic tank. This distinct Caterpillar solution increases efficiency and reduces cycle times and pressure loss for higher productivity and lower fuel costs.

Cat® Grade Control Depth and Slope

This optional system (1) combines traditional machine control and guidance with standard factory-installed and calibrated components, making the system ready to go to work the moment it leaves the factory. The system utilizes internal front linkage sensors – well protected from the harsh working environment – to give operators real-time bucket tip position information, which minimizes the need and cost for traditional grade checking and improves job site safety. It also helps the operator complete jobs in fewer cycles, which means less fuel use. Cat dealers can upgrade the system to full three-dimensional control by adding proven Cat AccuGrade™ positioning technologies, including GPS and Universal Total Station (UTS).

1

Cat Product Link*

This deeply integrated machine monitoring system is designed to help customers improve their overall fleet management effectiveness. Events and diagnostic codes as well as hours, fuel consumption, idle time, machine location, and other detailed information are transmitted to a secure web based application called VisionLink™, which uses powerful tools to communicate to users and dealers.

**Product Link licensing is not available in all areas. Please consult your Cat dealer for availability.*

Serviceability

Fast, easy and safe access built in

Ground-Level Maintenance

The machine is designed to accommodate servicing most maintenance items from the safety and comfort of ground level.

Service Doors

Wider service doors feature sturdier hinges and latches and a new screen design to help prevent debris entry; a new one-piece hood provides easier access to the engine and cooling compartments.

Compartments

The radiator, pump, and air cleaner (1) compartments provide easy access to major components. When an air cleaner plugs, a warning is displayed on the monitor inside the cab. Also, the fresh air filter (2) is located on the side of the cab to make it easier to reach and replace as needed.

Other Service Improvements

The water separator with water level sensor has a primary fuel filter element located in the pump compartment near ground level; the electric priming pump is mounted on the primary filter base and is easier to service than traditional hand-priming pumps.

The fuel tank features a remote drain cock located in the pump compartment to make it easy to remove water and sediment during maintenance.

The engine oil check gauge is situated in front of the engine compartment and is easy to remove. The engine oil filter is situated in the pump compartment for easy access. Changing engine oil is simple due to a unique drain cock designed to prevent spills.

The optional Fast Fill Hydraulic Oil System and Fast Fill Engine Oil System make what typically takes hours achievable in minutes.

Safety

Features to help protect people

Reinforced Frame

The upper frame is reinforced to accommodate the installation of a new ROPS cab with redesigned overhead guarding to protect operators.

Sound Proofing

Improved sealing and cab roof lining lower noise levels significantly during machine operation.

Anti-Skid Plates

The surface of the upper structure and the top of the storage box area are covered with removable anti-skid plates to help prevent service personnel and operators from slipping during maintenance.

Steps, Hand and Guard Rails

Steps on the track frame (1) and storage box along with extended hand and guard rails to the upper deck enable operators to more securely work on the machine.

High Intensity Discharge (HID) Lights

Cab lights can be upgraded to HID for greater nighttime visibility.

Visibility – Windows

Increased glass coverage improves visibility while meeting the latest ROPS regulations. The 70/30 split configuration features an upper window equipped with handles on the top and both sides so the operator can slide it to store in the ceiling. The lower window is removable and can be stored on the left wall of the cab shell. An available one-piece front windshield comes with a glass-breaking safety hammer.

The newly designed skylight is larger than the previous series' skylight and provides greater overhead visibility, excellent natural lighting, and good ventilation. The skylight can be opened completely to become an emergency exit.

Monitor Warning System

The monitor is equipped with a buzzer that can warn an operator of critical events like "Engine Oil Pressure Decrease," "Coolant Temperature High" or "Hydraulic Oil Temperature High," allowing for immediate action to take place.

Rearview Camera

A rearview camera (2) housed in the counterweight area comes standard. The image projects through the cab monitor to give the operator a clear picture of what's around the machine.

Complete Customer Care

Service you can count on

Product Support

Cat dealers utilize a worldwide parts network to minimize machine downtime. Plus you can save money with Cat remanufactured components.

Machine Selection

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

Purchase

Consider financing options and day-to-day operating costs. Look at dealer services that can be included in the machine's cost to yield lower owning and operating costs over time.

Customer Support Agreements

Cat dealers offer a variety of customer support agreements and work with you to develop a plan to meet 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 videos, literature, and other ideas to help you increase productivity. Caterpillar also offers simulators and certified operator training to help maximize the return on your investment.

Replacement

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

Sustainability

Generations ahead in every way

- The C9.3 ACERT engine, along with the Cat Clean Emissions Module (CEM), meets U.S. EPA Tier 4 Interim emissions regulations.
- The 336E generates 11% more horsepower, moves 5% more material, and burns 2% less fuel than the D Series machine, which means more efficiency and productivity with less resource consumption and fewer CO_2 emissions.
- The 336E has the flexibility of running on either ultra-low-sulfur diesel (ULSD) fuel with 15 ppm of sulfur or less or bio diesel (B20) fuel blended with ULSD.
- The 336E features an overfill indicator that rises when the tank is full to help the operator avoid spilling.
- The 336E's quick fill ports with connectors ensure fast, easy, and secure changing of engine and hydraulic oil.
- The 336E is built to be rebuilt with major structures and components remanufactured to reduce waste and replacement costs.
- The 336E is an efficient, productive machine that's designed to conserve our natural resources for generations ahead.

Engine

Engine Model	Cat® C9.3 (ATAAC)	
Net Power – SAE J1349	224 kW	300 hp
Gross Power – SAE J1995	241 kW	323 hp
Bore	115 mm	4.53 in
Stroke	149 mm	5.87 in
Displacement	9.3 L	568 in^3

Weights

Minimum Weight*	36 100 kg	79,600 lb
Maximum Weight**	39 100 kg	86,200 lb

*HD Reach boom, R3.2DB (10'6") stick, 2.28 m^3 (2.98 yd^3) GP bucket, 700 mm (28") TG shoes.
**ES Reach boom, R3.9DB ES (12'10") stick, 2.28 m^3 (2.98 yd^3) GP bucket, 850 mm (34") TG shoes.

Hydraulic System

Main System – Maximum Flow (Total)	578 L/min	153 gal/min
Swing System – Maximum Flow	275 L/min	73 gal/min
Maximum Pressure – Equipment		
Heavy Lift	38 000 kPa	5,511 psi
Normal	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	28 000 kPa	4,061 psi
Pilot System – Maximum Flow	26 L/min	6.9 gal/min
Pilot System – Maximum Pressure	4100 kPa	595 psi
Boom Cylinder – Bore	150 mm	5.9 in
Boom Cylinder – Stroke	1440 mm	56.7 in
Stick Cylinder – Bore	170 mm	6.7 in
Stick Cylinder – Stroke	1738 mm	68.4 in
DB Family Bucket Cylinder – Bore	150 mm	5.9 in
DB Family Bucket Cylinder – Stroke	1151 mm	45.3 in
TB Family Bucket Cylinder – Bore	160 mm	6.3 in
TB Family Bucket Cylinder – Stroke	1356 mm	53.4 in

Drive

Maximum Travel Speed	4.9 km/h	3 mph
Maximum Drawbar Pull	295 kN	66,300 lbf

Swing Mechanism

Swing Speed	9.2 rpm	
Swing Torque	109 kN·m	80,400 lb ft

Service Refill Capacities

Fuel Tank Capacity	620 L	163.8 gal
Cooling System	56 L	14.8 gal
Engine Oil (with filter)	30.5 L	8.1 gal
Swing Drive (each)	19 L	5 gal
Final Drive (each)	8 L	2.1 gal
Hydraulic System (including tank)	380 L	100.4 gal
Hydraulic Tank	175 L	46.2 gal

Track

Number of Shoes (each side)	
Long Undercarriage	49
Number of Track Rollers (each side)	
Long Undercarriage	9
Number of Carrier Rollers (each side)	
Long Undercarriage	2

Sound Performance

Operator Noise SAE J1166	71 dB(A)

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

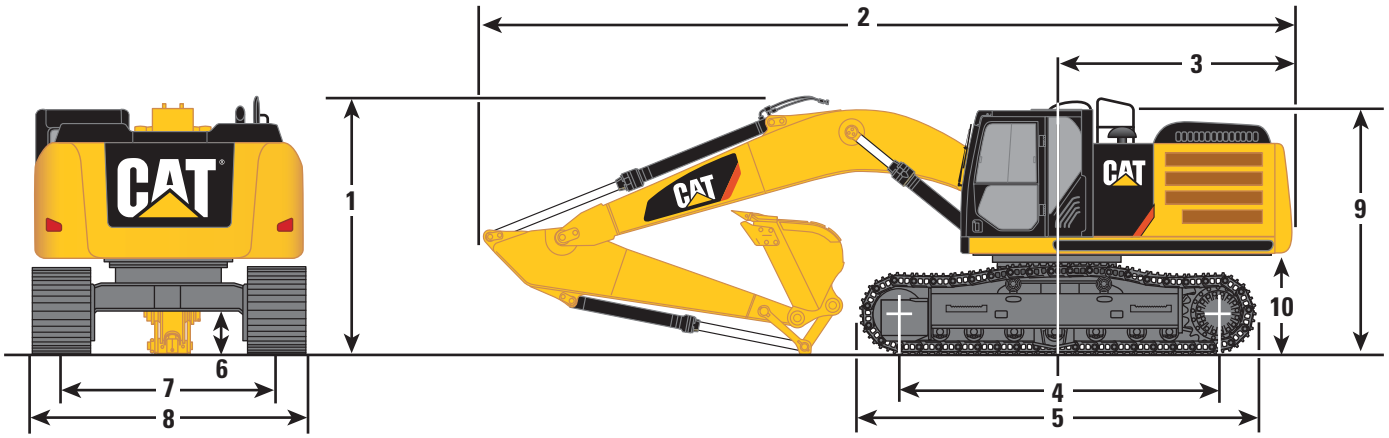
Standards

Brakes	ISO 10265 2008
Cab/FOGS	ISO 10262 1998

336E L Hydraulic Excavator Specifications

Dimensions

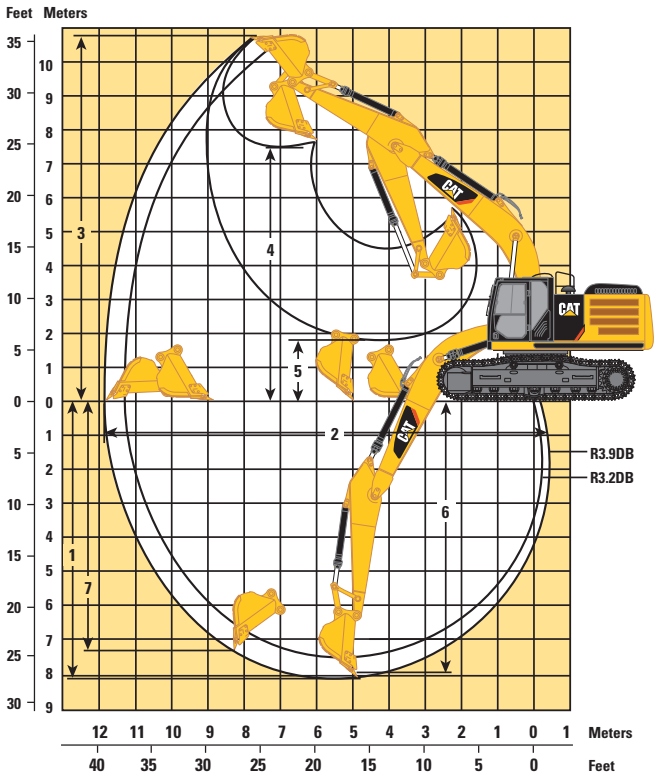
All dimensions are approximate.

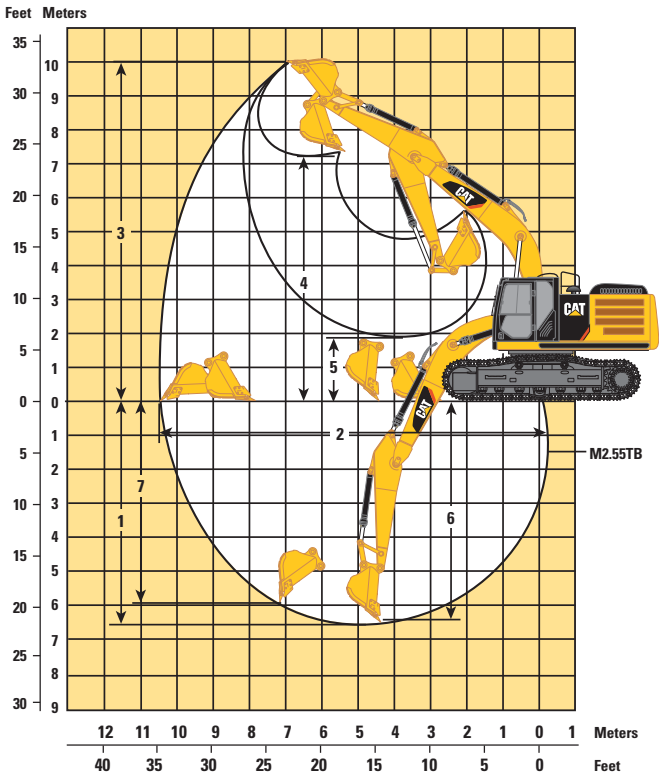


		Extreme Service and Heavy Duty Reach Booms 6.50 m (21'4")		Mass Boom 6.18 m (20'3")
	Stick	**R3.9DB (12'10")**	**R3.2DB (10'6")**	**M2.55TB (8'4")**
		mm (ft)	**mm (ft)**	**mm (ft)**
1	Shipping Height (with Shoe Lug Height)	3660 (12'0")	3510 (11'6")	3600 (11'10")
	Shipping Height with Top Guard	3660 (12'0")	3510 (11'6")	3510 (11'6")
2	Shipping Length	11 170 (36'8")	11 160 (36'7")	10 890 (35'9")
3	Tail Swing Radius	3500 (11'6")	3500 (11'6")	3500 (11'6")
4	Length to Center of Rollers			
	Long Undercarriage	4040 (13'3")	4040 (13'3")	4040 (13'3")
5	Track Length			
	Long Undercarriage	5020 (16'6")	5020 (16'6")	5020 (16'6")
6	Ground Clearance			
	With Shoe Lug Height	510 (1'8")	510 (1'8")	510 (1'8")
	Without Shoe Lug Height	480 (1'7")	480 (1'7")	480 (1'7")
7	Track Gauge			
	Long Undercarriage	2590 (8'6")	2590 (8'6")	2590 (8'6")
8	Transport Width			
	Long/Std U/C – 700 mm (28") Shoes	3290 (10'10")	3290 (10'10")	3290 (10'10")
	Long/Std U/C – 800 mm (32") Shoes	3390 (11'1")	3390 (11'1")	3390 (11'1")
	Long/Std U/C – 850 mm (34") Shoes	3440 (11'3")	3440 (11'3")	3440 (11'3")
9	Cab Height	3150 (10'4")	3150 (10'4")	3150 (10'4")
	Cab Height with Top Guard	3360 (11'0")	3360 (11'0")	3360 (11'0")
10	Counterweight Clearance (without Shoe Lug Height)	1220 (4'0")	1220 (4'0")	1220 (4'0")

Working Ranges

All dimensions are approximate.





	Extreme Service and Heavy Duty Reach Booms 6.50 m (21'4")		Mass Boom 6.18 m (20'3")
Stick	**R3.9DB (12'10")**	**R3.2DB (10'6")**	**M2.55TB (8'4")**
	mm (ft)	**mm (ft)**	**mm (ft)**
1 Maximum Digging Depth	8190 (26'10")	7490 (24'7")	6650 (21'10")
2 Maximum Reach at Ground Level	11 720 (38'5")	11 020 (36'2")	10 260 (33'8")
3 Maximum Cutting Height	10 740 (35'3")	10 320 (33'10")	9970 (32'9")
4 Maximum Loading Height	7500 (24'7")	7110 (23'4")	6620 (21'9")
5 Minimum Loading Height	1910 (6'3")	2610 (8'7")	2920 (9'7")
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	7610 (25'0")	6820 (22'5")	5810 (19'1")
7 Maximum Vertical Wall Digging Depth	6310 (20'8")	5500 (18'1")	4450 (14'7")

Operating Weight and Ground Pressure

	850 mm (34") Triple Grouser Shoes		800 mm (32") Triple Grouser Shoes		700 mm (28") Triple Grouser Shoes	
	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)
Long Undercarriage						
HD Reach Boom – 6.50 m (21'4")						
R3.9DB (12'10")	37 300 (82,200)	49.0 (7.1)	37 000 (81,600)	51.7 (7.5)	36 300 (80,000)	58.0 (8.4)
R3.2DB (10'6")	37 000 (81,600)	48.7 (7.1)	36 700 (80,900)	51.3 (7.4)	36 100 (79,600)	57.7 (8.4)
ES Reach Boom – 6.50 m (21'4") – including 7.0 mt (7.7 t) counterweight						
R3.9DB HD (12'10")	39 100 (86,200)	51.4 (7.5)	38 900 (85,800)	54.3 (7.9)	38 200 (84,200)	61.0 (8.8)
R3.2DB HD (10'6")	38 900 (85,800)	51.1 (7.4)	38 600 (85,100)	53.9 (7.8)	37 900 (83,600)	60.5 (8.8)
Mass Boom – 6.18 m (20'3")						
M2.55TB (8'4")	38 100 (84,000)	50.1 (7.3)	37 800 (83,300)	52.8 (7.7)	37 100 (81,800)	59.3 (8.6)

Major Component Weights*

	kg	lb
Lower Structure (without counterweight and track)		
Long Undercarriage	8700	19,200
Upper Structure (without front linkage)		
For 6.0 mt (6.6 t) counterweight	9000	19,800
For 7.0 mt (7.7 t) counterweight	9200	20,300
Counterweight		
6.0 mt (6.6 t)	6000	13,200
7.0 mt (7.7 t)	7000	15,400
Boom (includes lines, pins and stick cylinder)		
HD Reach Boom – 6.50 m (21'4")	4100	9,000
ES Reach Boom – 6.50 m (21'4")	4300	9,500
Mass Boom – 6.18 m (20'3")	4000	8,800
Stick (includes lines, pins and bucket cylinder)		
R3.9DB HD (12'10")	2100	4,600
R3.9DB ES (12'10")	2300	5,100
R3.2DB HD (10'6")	1800	4,000
R3.2DB ES (10'6")	2000	4,400
M2.55TB (8'4")	2000	4,400
Track shoe (Long)		
700 mm (28") triple grouser	4400	9,700
800 mm (32") triple grouser	5100	11,200
850 mm (34") triple grouser	5400	11,900
Quick Coupler	540	1,200
Buckets		
DB1536GP-C 342-2192 SAE 2.28 m^3 (2.98 yd^3)	1500	3,300
TB1676SD 339-3748 SAE 2.41 m^3 (3.15 yd^3)	2500	5,500

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

Bucket and Stick Forces

	Extreme Service and Heavy Duty Reach Booms 6.50 m (21'4")		Mass Boom 6.18 m (20'3")
Stick	**R3.9DB (12'10")**	**R3.2DB (10'6")**	**M2.55TB (8'4")**
	kN (lbf)	**kN (lbf)**	**kN (lbf)**
General Duty			
Bucket Digging Force (SAE)	188.5 (42,380)	188.5 (42,380)	234.7 (52,760)
Stick Digging Force (SAE)	141.5 (31,810)	162.1 (36,440)	184.6 (41,500)
Heavy Duty			
Bucket Digging Force (SAE)	184.9 (41,570)	184.9 (41,570)	234.7 (52,760)
Stick Digging Force (SAE)	140.7 (31,630)	161.1 (36,220)	184.6 (41,500)
Severe Duty			
Bucket Digging Force (SAE)	184.9 (41,570)	184.9 (41,570)	231.0 (51,930)
Stick Digging Force (SAE)	140.7 (31,630)	161.1 (36,220)	183.9 (41,340)
Extreme Duty			
Bucket Digging Force (SAE)	184.9 (41,570)	184.9 (41,570)	–
Stick Digging Force (SAE)	140.7 (31,630)	161.1 (36,220)	–

336E L Heavy Duty Reach Boom Lift Capacities – Americas

 Load Point Height  Load at Maximum Reach  Load Radius Over Front  Load Radius Over Side

Boom – 6.50 m (21'4") **Counterweight** – 6.0 mt (6.6 t) **Bucket** – None

Stick – R3.9DB (12'10") **Shoes** – 800 mm (32") triple grouser **Heavy Lift Mode** – On

		1.5 m/5.0 ft		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**													*6250 ***13,950**	*6250 ***13,950**	7.35 **23.64**
7.5 m **25.0 ft**	kg **lb**									*7700 ***17,050**	7650 **16,450**			*5800 ***12,850**	*5800 ***12,850**	8.53 **27.74**
6.0 m **20.0 ft**	kg **lb**									*8000 ***17,550**	7550 **16,200**	*7500 ***14,550**	5550 **11,850**	*5650 ***12,450**	5150 **11,500**	9.33 **30.48**
4.5 m **15.0 ft**	kg **lb**							*9800 ***21,200**	*9800 ***21,200**	*8750 ***19,100**	7300 **15,650**	*8200 ***17,950**	5450 **11,650**	*5650 ***12,450**	4650 **10,250**	9.84 **32.22**
3.0 m **10.0 ft**	kg **lb**					*15 300 ***32,900**	14 850 **32,000**	*11 600 ***25,100**	9700 **20,850**	*9750 ***21,150**	6950 **14,950**	8250 **17,700**	5250 **11,300**	*5850 ***12,850**	4350 **9,600**	10.10 **33.11**
1.5 m **5.0 ft**	kg **lb**					*18 450 ***39,800**	13 700 **29,450**	*13 300 ***28,800**	9100 **19,600**	10 600 **22,750**	6650 **14,250**	8050 **17,300**	5100 **10,900**	*6200 ***13,600**	4250 **9,350**	10.12 **33.22**
Ground Line	kg **lb**			*8550 ***19,400**	*8550 ***19,400**	*20 100 ***43,450**	13 050 **28,050**	14 450 **31,000**	8700 **18,700**	10 300 **22,150**	6400 **13,700**	7900 **16,950**	4950 **10,600**	*6750 ***14,850**	4300 **9,450**	9.93 **32.56**
–1.5 m **–5.0 ft**	kg **lb**	*8900 ***19,900**	*8900 ***19,900**	*13 300 ***30,050**	*13 300 ***30,050**	*20 350 ***44,100**	12 800 **27,500**	14 150 **30,450**	8450 **18,200**	10 100 **21,750**	6200 **13,400**	7800 **16,800**	4850 **10,450**	7250 **16,000**	4550 **10,000**	9.48 **31.09**
–3.0 m **–10.0 ft**	kg **lb**	*14 100 ***31,550**	*14 100 ***31,550**	*19 400 ***43,850**	*19 400 ***43,850**	*19 500 ***42,150**	12 800 **27,550**	14 100 **30,350**	8400 **18,100**	10 100 **21,700**	6200 **13,350**			8150 **18,000**	5050 **11,200**	8.76 **28.66**
–4.5 m **–15.0 ft**	kg **lb**	*20 200 ***45,400**	*20 200 ***45,400**	*24 050 ***51,900**	*24 050 ***51,900**	*17 350 ***37,450**	13 000 **28,000**	*13 200 ***28,300**	8550 **18,400**	*9900 ***20,850**	6350 **13,700**			*9450 ***20,850**	6150 **13,700**	7.69 **25.01**
–6.0 m **–20.0 ft**	kg **lb**					*13 250 ***27,950**	*13 250 ***27,950**	*9400	8950					*9250 ***20,250**	8850 **20,100**	6.06 **19.44**

Boom – 6.50 m (21'4") **Counterweight** – 6.0 mt (6.6 t) **Bucket** – None

Stick – R3.2DB (10'6") **Shoes** – 800 mm (32") triple grouser **Heavy Lift Mode** – On

		1.5 m/5.0 ft		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
7.5 m **25.0 ft**	kg **lb**									*8800	7500			*9100 ***20,150**	8700 **19,700**	6.58 **21.25**
6.0 m **20.0 ft**	kg **lb**									*8900 ***19,500**	7400 **15,950**			*8700 ***19,150**	6800 **15,100**	7.59 **24.74**
4.5 m **15.0 ft**	kg **lb**					*13 500	*13 500	*10 900 ***23,600**	10 100 **21,750**	*9550 ***20,800**	7200 **15,450**	8350	5350	*8650 ***19,100**	5850 **12,950**	8.21 **26.85**
3.0 m **10.0 ft**	kg **lb**					*17 150 ***36,800**	14 400 **31,050**	*12 600 ***27,250**	9500 **20,500**	*10 450 ***22,700**	6900 **14,850**	8200 **17,650**	5250 **11,250**	8500 **18,800**	5400 **11,850**	8.51 **27.92**
1.5 m **5.0 ft**	kg **lb**					*19 700 ***42,550**	13 450 **28,950**	*14 100 ***30,500**	9000 **19,450**	10 550 **22,700**	6600 **14,250**	8050 **17,300**	5100 **10,950**	8350 **18,350**	5250 **11,500**	8.55 **28.05**
Ground Line	kg **lb**					*20 550 ***44,550**	13 050 **28,050**	14 450 **31,000**	8700 **18,700**	10 300 **22,200**	6400 **13,800**	7950 **17,100**	5000 **10,750**	8600 **18,950**	5350 **11,800**	8.31 **27.27**
–1.5 m **–5.0 ft**	kg **lb**			*14 500 ***32,800**	*14 500 ***32,800**	*20 150 ***43,750**	12 950 **27,850**	14 250 **30,650**	8550 **18,400**	10 200 **22,000**	6300 **13,600**			9450 **20,850**	5850 **12,950**	7.78 **25.48**
–3.0 m **–10.0 ft**	kg **lb**			*22 850 ***51,700**	*22 850 ***51,700**	*18 700 ***40,550**	13 050 **28,100**	*14 250 **30,750**	8600 **18,500**	10 250 **22,100**	6350 **13,750**			*10 800 ***23,750**	7050 **15,600**	6.88 **22.45**
–4.5 m **–15.0 ft**	kg **lb**			*21 050 ***45,350**	*21 050 ***45,350**	*15 900 ***34,100**	13 350 **28,800**	*12 050 ***25,650**	8800 **19,000**					*10 050 ***21,950**	*10 050 ***21,950**	5.43 **17.51**
–6.0 m **–20.0 ft**	kg **lb**															

*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.

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

336E L Hydraulic Excavator Specifications

336E L Heavy Duty Reach Boom Lift Capacities – Americas

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 6.50 m (21'4")
Stick – R3.9DB (12'10")
Counterweight – 6.0 mt (6.6 t)
Shoes – 850 mm (34") triple grouser
Bucket – None
Heavy Lift Mode – On

		1.5 m/5.0 ft		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**													*6250 ***13,950**	*6250 ***13,950**	7.35 **23.64**
7.5 m **25.0 ft**	kg **lb**									*7700 ***17,050**	*7700 **16,550**			*5800 ***12,850**	*5800 ***12,850**	8.53 **27.74**
6.0 m **20.0 ft**	kg **lb**									*8000 ***17,550**	7600 **16,300**	*7500 ***14,550**	5600 **11,900**	*5650 ***12,450**	5200 **11,550**	9.33 **30.48**
4.5 m **15.0 ft**	kg **lb**							*9800 ***21,200**	*9800 ***21,200**	*8750 ***19,100**	7350 **15,750**	*8200 ***17,950**	5450 **11,750**	*5650 ***12,450**	4700 **10,350**	9.84 **32.22**
3.0 m **10.0 ft**	kg **lb**					*15 300 ***32,900**	14 950 **32,200**	*11 600 ***25,100**	9750 **21,000**	*9750 ***21,150**	7000 **15,100**	8300 **17,850**	5300 **11,400**	*5850 ***12,850**	4400 **9,650**	10.10 **33.11**
1.5 m **5.0 ft**	kg **lb**					*18 450 ***39,800**	13 750 **29,700**	*13 300 ***28,800**	9150 **19,750**	10 650 **22,950**	6700 **14,400**	8100 **17,450**	5100 **11,000**	*6200 ***13,600**	4300 **9,400**	10.12 **33.22**
Ground Line	kg **lb**			*8550 ***19,400**	*8550 ***19,400**	*20 100 ***43,450**	13 150 **28,250**	*14 500 ***31,250**	8750 **18,850**	10 400 **22,300**	6450 **13,850**	7950 **17,100**	5000 **10,700**	*6750 ***14,850**	4350 **9,500**	9.93 **32.56**
–1.5 m **–5.0 ft**	kg **lb**	*8900 ***19,900**	*8900 ***19,900**	*13 300 ***30,050**	*13 300 ***30,050**	*20 350 ***44,100**	12 900 **27,700**	14 300 **30,700**	8500 **18,350**	10 200 **21,950**	6250 **13,500**	7850 **16,950**	4900 **10,550**	7300 **16,150**	4600 **10,050**	9.48 **31.09**
–3.0 m **–10.0 ft**	kg **lb**	*14 100 ***31,550**	*14 100 ***31,550**	*19 400 ***43,850**	*19 400 ***43,850**	*19 500 ***42,150**	12 900 **27,750**	14 250 **30,550**	8450 **18,250**	10 150 **21,900**	6250 **13,450**			8200 **18,100**	5100 **11,300**	8.76 **28.66**
–4.5 m **–15.0 ft**	kg **lb**	*20 200 ***45,400**	*20 200 ***45,400**	*24 050 ***51,900**	*24 050 ***51,900**	*17 350 ***37,450**	13 100 **28,250**	*13 200 ***28,300**	8600 **18,550**	*9900 ***20,850**	6400 **13,800**			*9450 ***20,850**	6200 **13,800**	7.69 **25.01**
–6.0 m **–20.0 ft**	kg **lb**					*13 250 ***27,950**	*13 250 ***27,950**	*9400	9000					*9250 ***20,250**	8900 ***20,250**	6.06 **19.44**

*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.

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

336E L Extreme Service Boom Lift Capacities – Americas

 Load Point Height  Load at Maximum Reach  Load Radius Over Front  Load Radius Over Side

Boom – 6.50 m (21'4")
Stick – R3.9DB (12'10")
Counterweight – 7.0 mt (7.7 t)
Shoes – 800 mm (32") triple grouser
Bucket – None
Heavy Lift Mode – On

		1.5 m/5.0 ft		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**													*6150 ***13,650**	*6150 ***13,650**	7.35 **23.64**
7.5 m **25.0 ft**	kg **lb**									*7500 ***16,550**	*7500 ***16,550**			*5700 ***12,600**	*5700 ***12,600**	8.53 **27.74**
6.0 m **20.0 ft**	kg **lb**									*7800 ***17,050**	*7800 ***17,050**	*7400 ***14,250**	5900 **12,600**	*5550 ***12,200**	5500 ***12,200**	9.33 **30.48**
4.5 m **15.0 ft**	kg **lb**							*9550 ***20,650**	*9550 ***20,650**	*8550 ***18,550**	7750 **16,700**	*7950 ***17,400**	5800 **12,400**	*5550 ***12,200**	4950 **10,900**	9.84 **32.22**
3.0 m **10.0 ft**	kg **lb**					*15 000 ***32,200**	*15 000 ***32,200**	*11 300 ***24,450**	10 350 **22,300**	*9500 ***20,550**	7400 **15,950**	*8450 ***18,350**	5600 **12,000**	*5700 ***12,550**	4600 **10,150**	10.10 **33.11**
1.5 m **5.0 ft**	kg **lb**					*18 050 ***38,900**	14 650 **31,550**	*13 000 ***28,050**	9700 **20,950**	*10 450 ***22,600**	7050 **15,200**	8500 **18,300**	5400 **11,600**	*6050 ***13,300**	4500 **9,900**	10.12 **33.22**
Ground Line	kg **lb**			*8400 ***19,150**	*8400 ***19,150**	*19 650 ***42,450**	13 950 **30,000**	*14 150 ***30,600**	9250 **19,950**	10 950 **23,500**	6800 **14,600**	8350 **17,950**	5250 **11,250**	*6600 ***14,550**	4550 **10,000**	9.93 **32.56**
–1.5 m **–5.0 ft**	kg **lb**	*8800 ***19,600**	*8800 ***19,600**	*13 200 ***29,800**	*13 200 ***29,800**	*19 850 ***43,050**	13 700 **29,400**	*14 600 ***31,600**	9000 **19,400**	10 750 **23,100**	6600 **14,250**	8250 **17,800**	5150 **11,100**	*7500 ***16,550**	4800 **10,600**	9.48 **31.09**
–3.0 m **–10.0 ft**	kg **lb**	*13 950 ***31,250**	*13 950 ***31,250**	*19 250 ***43,600**	*19 250 ***43,600**	*19 000 ***41,150**	13 700 **29,450**	*14 250 ***30,800**	8950 **19,300**	10 700 **23,050**	6600 **14,200**			8600 **19,050**	5400 **11,900**	8.76 **28.66**
–4.5 m **–15.0 ft**	kg **lb**	*20 100 ***45,150**	*20 100 ***45,150**	*23 450 ***50,600**	*23 450 ***50,600**	*16 900 ***36,450**	13 950 **30,000**	*12 800 ***27,500**	9100 **19,650**	*9600 ***20,200**	6750 **14,600**			*9150 ***20,150**	6550 **14,600**	7.69 **25.01**
–6.0 m **–20.0 ft**	kg **lb**					*12 850 ***27,050**	*12 850 ***27,050**	*9050	*9050					*8900 ***19,500**	*8900 ***19,500**	6.06 **19.44**

Boom – 6.50 m (21'4")
Stick – R3.2DB (10'6")
Counterweight – 7.0 mt (7.7 t)
Shoes – 800 mm (32") triple grouser
Bucket – None
Heavy Lift Mode – On

		1.5 m/5.0 ft		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
7.5 m **25.0 ft**	kg **lb**									*8600	8000			*7300 ***16,200**	*7300 ***16,200**	7.70 **24.98**
6.0 m **20.0 ft**	kg **lb**									*8700 ***19,100**	7950 **17,050**			*7100 ***15,650**	6300 **14,050**	8.58 **28.00**
4.5 m **15.0 ft**	kg **lb**					*13 300	*13 300	*10 700 ***23,150**	*10 700 ***23,150**	*9350 ***20,350**	7700 **16,600**	*8400	5750	*7150 ***15,750**	5600 **12,400**	9.13 **29.88**
3.0 m **10.0 ft**	kg **lb**					*16 850 ***36,150**	15 450 **33,350**	*12 350 ***26,700**	10 200 **22,050**	*10 200 ***22,200**	7400 **15,900**	8750 **18,750**	5600 **12,050**	*7450 ***16,350**	5250 **11,500**	9.40 **30.84**
1.5 m **5.0 ft**	kg **lb**					*19 350 ***41,800**	14 450 **31,150**	*13 850 ***29,900**	9700 **20,850**	*11 050 ***23,950**	7100 **15,250**	8550 **18,450**	5450 **11,750**	*7950 ***17,500**	5100 **11,200**	9.43 **30.96**
Ground Line	kg **lb**					*20 200 ***43,750**	14 000 **30,150**	*14 700 ***31,800**	9350 **20,100**	11 000 **23,650**	6900 **14,800**	8450 **18,200**	5350 **11,500**	8150 **18,000**	5200 **11,400**	9.22 **30.25**
–1.5 m **–5.0 ft**	kg **lb**			*14 400 ***32,600**	*14 400 ***32,600**	*19 800 ***42,900**	13 900 **29,950**	*14 750 ***32,000**	9200 **19,750**	10 900 **23,450**	6750 **14,600**			8800 **19,350**	5550 **12,200**	8.74 **28.65**
–3.0 m **–10.0 ft**	kg **lb**			*22 750 ***51,500**	*22 750 ***51,500**	*18 350 ***39,700**	14 050 **30,200**	*13 950 ***30,150**	9200 **19,850**	*10 800 ***23,150**	6800 **14,700**			*9850 ***21,750**	6350 **14,000**	7.96 **26.00**
–4.5 m **–15.0 ft**	kg **lb**			*20 600 ***44,350**	*20 600 ***44,350**	*15 500 ***33,350**	14 400 **30,950**	*11 750 ***25,000**	9450 **20,400**					*9900 ***21,800**	8100 **18,100**	6.75 **21.90**
–6.0 m **–20.0 ft**	kg **lb**															

*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.

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336E L Hydraulic Excavator Specifications

336E L Extreme Service Boom Lift Capacities – Americas

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 6.50 m (21'4")
Stick – R3.9DB (12'10")
Counterweight – 7.0 mt (7.7 t)
Shoes – 850 mm (34") triple grouser
Bucket – None
Heavy Lift Mode – On

		1.5 m/5.0 ft		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**													*6150 ***13,650**	*6150 ***13,650**	7.35 **23.64**
7.5 m **25.0 ft**	kg **lb**									*7500 ***16,550**	*7500 ***16,550**			*5700 ***12,600**	*5700 ***12,600**	8.53 **27.74**
6.0 m **20.0 ft**	kg **lb**									*7800 ***17,050**	*7800 ***17,050**	*7400 ***14,250**	5950 **12,650**	*5550 ***12,200**	*5550 ***12,200**	9.33 **30.48**
4.5 m **15.0 ft**	kg **lb**							*9550 ***20,650**	*9550 ***20,650**	*8550 ***18,550**	7850 **16,850**	*7950 ***17,400**	5800 **12,450**	*5550 ***12,200**	4950 **10,950**	9.84 **32.22**
3.0 m **10.0 ft**	kg **lb**					*15 000 ***32,200**	*15 000 ***32,200**	*11 300 ***24,450**	10 400 **22,450**	*9500 ***20,550**	7450 **16,050**	*8450 ***18,350**	5650 **12,100**	*5700 ***12,550**	4650 **10,250**	10.10 **33.11**
1.5 m **5.0 ft**	kg **lb**					*18 050 ***38,900**	14 750 **31,750**	*13 000 ***28,050**	9800 **21,100**	*10 450 ***22,600**	7100 **15,300**	8600 **18,450**	5450 **11,700**	*6050 ***13,300**	4550 **9,950**	10.12 **33.22**
Ground Line	kg **lb**			*8400 ***19,150**	*8400 ***19,150**	*19 650 ***42,450**	14 050 **30,200**	*14 150 ***30,600**	9350 **20,100**	11 000 **23,650**	6850 **14,700**	8400 **18,100**	5300 **11,350**	*6600 ***14,550**	4600 **10,100**	9.93 **32.56**
–1.5 m **–5.0 ft**	kg **lb**	*8800 ***19,600**	*8800 ***19,600**	*13 200 ***29,800**	*13 200 ***29,800**	*19 850 ***43,050**	13 800 **29,650**	*14 600 ***31,600**	9100 **19,550**	10 800 **23,300**	6650 **14,350**	8350 **17,900**	5200 **11,200**	*7500 ***16,550**	4850 **10,700**	9.48 **31.09**
–3.0 m **–10.0 ft**	kg **lb**	*13 950 ***31,250**	*13 950 ***31,250**	*19 250 ***43,600**	*19 250 ***43,600**	*19 000 ***41,150**	13 800 **29,650**	*14 250 ***30,800**	9050 **19,450**	10 800 **23,200**	6650 **14,300**			8700 **19,200**	5400 **12,000**	8.76 **28.66**
–4.5 m **–15.0 ft**	kg **lb**	*20 100 ***45,150**	*20 100 ***45,150**	*23 450 ***50,600**	*23 450 ***50,600**	*16 900 ***36,450**	14 050 **30,200**	*12 800 ***27,500**	9150 **19,750**	*9600 ***20,200**	6800 **14,700**			*9150 ***20,150**	6600 **14,700**	7.69 **25.01**
–6.0 m **–20.0 ft**	kg **lb**					*12 850 ***27,050**	*12 850 ***27,050**	*9050	*9050					*8900 ***19,500**	*8900 ***19,500**	6.06 **19.44**

Boom – 6.50 m (21'4")
Stick – R3.2DB (10'6")
Counterweight – 7.0 mt (7.7 t)
Shoes – 850 mm (34") triple grouser
Bucket – None
Heavy Lift Mode – On

		1.5 m/5.0 ft		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
7.5 m **25.0 ft**	kg **lb**									*8600	8050			*7300 ***16,200**	*7300 ***16,200**	7.70 **24.98**
6.0 m **20.0 ft**	kg **lb**									*8700 ***19,100**	8000 **17,200**			*7100 ***15,650**	6350 **14,150**	8.58 **28.00**
4.5 m **15.0 ft**	kg **lb**					*13 300	*13 300	*10 700 ***23,150**	*10 700 ***23,150**	*9350 ***20,350**	7750 **16,700**	*8400	5800	*7150 ***15,750**	5650 **12,450**	9.13 **29.88**
3.0 m **10.0 ft**	kg **lb**					*16 850 ***36,150**	15 550 **33,600**	*12 350 ***26,700**	10 300 **22,200**	*10 200 ***22,200**	7450 **16,000**	8800 **18,900**	5650 **12,150**	*7450 ***16,350**	5250 **11,600**	9.40 **30.84**
1.5 m **5.0 ft**	kg **lb**					*19 350 ***41,800**	14 550 **31,350**	*13 850 ***29,900**	9750 **21,000**	*11 050 ***23,950**	7150 **15,400**	8650 **18,550**	5500 **11,800**	*7950 ***17,500**	5150 **11,300**	9.43 **30.96**
Ground Line	kg **lb**					*20 200 ***43,750**	14 100 **30,350**	*14 700 ***31,800**	9400 **20,250**	11 100 **23,850**	6950 **14,900**	8500 **18,350**	5400 **11,600**	8250 **18,100**	5200 **11,450**	9.22 **30.25**
–1.5 m **–5.0 ft**	kg **lb**			*14 400 ***32,600**	*14 400 ***32,600**	*19 800 ***42,900**	14 000 **30,150**	*14 750 ***32,000**	9250 **19,900**	10 950 **23,600**	6800 **14,700**			8850 **19,500**	5600 **12,300**	8.74 **28.65**
–3.0 m **–10.0 ft**	kg **lb**			*22 750 ***51,500**	*22 750 ***51,500**	*18 350 ***39,700**	14 150 **30,400**	*13 950 ***30,150**	9300 **20,000**	*10 800 ***23,150**	6850 **14,800**			*9850 ***21,750**	6400 **14,100**	7.96 **26.00**
–4.5 m **–15.0 ft**	kg **lb**			*20 600 ***44,350**	*20 600 ***44,350**	*15 500 ***33,350**	14 500 **31,150**	*11 750 ***25,000**	9500 **20,550**					*9900 ***21,800**	8150 **18,250**	6.75 **21.90**
–6.0 m **–20.0 ft**	kg **lb**															

*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.

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

336E L Mass Boom Lift Capacities – Americas

 Load Point Height  Load at Maximum Reach  Load Radius Over Front  Load Radius Over Side

Boom – 6.18 m (20'3")
Stick – M2.55TB (8'4")
Counterweight – 6.0 mt (6.6 t)
Shoes – 800 mm (32") triple grouser
Bucket – None
Heavy Lift Mode – On

		1.5 m/5.0 ft		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
7.5 m **25.0 ft**	kg **lb**							*10 300 ***22,700**	*10 300 **22,400**					*9100 ***20,150**	8900 **20,150**	6.58 **21.25**
6.0 m **20.0 ft**	kg **lb**							*10 650 ***23,150**	10 250 **22,100**	*9900	7100			*8700 ***19,150**	6950 **15,500**	7.59 **24.74**
4.5 m **15.0 ft**	kg **lb**					*14 850 ***31,900**	*14 850 ***31,900**	*11 800 ***25,600**	9800 **21,150**	*10 400 ***22,650**	6950 **14,950**			*8650 ***19,100**	6000 **13,300**	8.21 **26.85**
3.0 m **10.0 ft**	kg **lb**					*18 150 ***39,050**	14 000 **30,200**	*13 300 ***28,800**	9300 **20,000**	10 650 **22,950**	6700 **14,450**			8750 **19,300**	5550 **12,200**	8.51 **27.92**
1.5 m **5.0 ft**	kg **lb**					*20 200 ***43,650**	13 200 **28,400**	*14 550 **31,400**	8850 **19,000**	10 400 **22,400**	6500 **13,950**			8550 **18,850**	5400 **11,850**	8.55 **28.05**
Ground Line	kg **lb**					*20 450 ***44,300**	12 900 **27,800**	14 300 **30,750**	8550 **18,450**	10 250 **22,000**	6300 **13,600**			8850 **19,450**	5500 **12,150**	8.31 **27.27**
–1.5 m **–5.0 ft**	kg **lb**			*18 400 ***41,800**	*18 400 ***41,800**	*19 400 ***42,100**	12 950 **27,800**	14 250 **30,550**	8500 **18,300**	10 200 **22,000**	6300 **13,600**			9700 **21,450**	6050 **13,300**	7.78 **25.48**
–3.0 m **–10.0 ft**	kg **lb**			*22 250 ***48,350**	*22 250 ***48,350**	*17 150 ***37,100**	13 150 **28,250**	*13 050 ***28,100**	8650 **18,600**					*10 800 ***23,750**	7250 **16,050**	6.88 **22.45**
–4.5 m **–15.0 ft**	kg **lb**					*12 650 ***26,750**	*12 650 ***26,750**							*10 050 ***21,950**	*10 050 ***21,950**	5.43 **17.51**
–6.0 m **–20.0 ft**	kg **lb**															

*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.

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

336E L Work Tool Offering Guide*

Boom Option	**Heavy Duty Reach Boom**		**Mass Boom**	**Extreme Service Boom**	
Stick Option	**R3.9 (HD) (12'10")**	**R3.2 (HD) (10'6")**	**M2.55 (8'4")**	**R3.9 (ES) (12'10")**	**R3.2 (ES) (10'6")**
Hydraulic Hammer	H130s H140Ds	H130s H140Ds H160Ds (pin-on)	H130s H140Ds H160Ds	H130s H140Ds H160Ds	H130s H140Ds H160Ds
Multi-Processor	MP20	MP20	MP30	MP20	MP20
Mobile Scrap and Demolition Shear	S320B S365C**	S320B S365C**	S325B	S320B S325B S365C**	S320B S325B S365C**
Compactor (Vibratory Plate)	CVP110	CVP110	CVP110	CVP110	CVP110
Contractors' Grapple					
Trash Grapple					
Thumbs					
Rippers	These work tools are available for the 336E. Consult your Cat dealer for proper match.				
Rakes					
Center-Lock Pin Grabber Coupler					
Dedicated Quick Coupler					

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

**Boom Mount

336E L Hydraulic Excavator Specifications

336E L Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Mass Boom	Heavy Duty Boom		Extreme Service Boom	
		mm	in	m^3	yd^3	kg	lb	%	M2.55 (8'4")	R3.2 HD (10'6")	R3.9 HD (12'10")	R3.2 ES (10'6")	R3.9 ES (12'10")
Without Quick Coupler													
General Duty (GDC)	DB	750	30	0.94	1.23	952	2,099	100%		●	●	●	●
	DB	900	36	1.19	1.56	1040	2,292	100%		●	●	●	●
	DB	1050	42	1.46	1.91	1147	2,528	100%		●	●	●	●
	DB	1200	48	1.73	2.26	1232	2,716	100%		●	◉	●	◉
	DB	1350	54	2.00	2.62	1342	2,957	100%		◉	⊖	◉	⊖
	DB	1500	60	2.27	2.98	1451	3,197	100%		⊖	○	⊖	○
	DB	1650	66	2.55	3.33	1536	3,386	100%		X	X	⊖	○
Heavy Duty (HD)	DB	750	30	0.73	0.95	1031	2,273	100%		●	●	●	●
	DB	900	36	0.95	1.24	1178	2,595	100%		●	●	●	●
	DB	1050	42	1.17	1.54	1267	2,793	100%		●	●	●	●
	DB	1200	48	1.40	1.84	1398	3,080	100%		●	●	●	●
	DB	1350	54	1.64	2.14	1459	3,215	100%		●	◉	●	◉
	DB	1500	60	1.88	2.46	1566	3,452	100%		◉	⊖	●	⊖
	DB	1650	66	2.12	2.77	1697	3,740	100%		X	X	◉	○
	DB	1800	72	2.36	3.08	1851	4,080	100%		X	X	⊖	○
	TB	1800	71	2.69	3.52	2423	5,340	100%	○				
Severe Duty (SD)	DB	750	30	0.73	0.95	1096	2,415	90%		●	●	●	●
	DB	900	36	0.95	1.24	1252	2,760	90%		●	●	●	●
	DB	1050	42	1.17	1.54	1353	2,981	90%		●	●	●	●
	DB	1200	48	1.40	1.84	1493	3,292	90%		●	●	●	●
	DB	1350	54	1.64	2.14	1599	3,524	90%		●	◉	●	●
Maximum load pin-on (payload + bucket)								kg	5790	4990	4360	5315	4585
								lb	12,761	10,998	9,609	11,714	10,105

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

Maximum Material Density:

- ● 2100 kg/m^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)
- X Not Recommended

336E L Bucket Specifications and Compatibility

		Width		Capacity		Weight		Fill	Mass Boom	Heavy Duty Boom		Extreme Service Boom	
	Linkage	mm	in	m^3	yd^3	kg	lb	%	M2.55 (8'4")	R3.2 HD (10'6")	R3.9 HD (12'10")	R3.2 ES (10'6")	R3.9 ES (12'10")
With Center-Lock Quick Coupler													
General Duty (GDC)	DB	750	30	0.94	1.23	952	2,099	100%		●	●	●	●
	DB	900	36	1.19	1.56	1040	2,292	100%		●	●	●	●
	DB	1050	42	1.46	1.91	1147	2,528	100%		●	⦿	●	⦿
	DB	1200	48	1.73	2.26	1232	2,716	100%		⦿	⊖	●	⊖
	DB	1350	54	2.00	2.62	1342	2,957	100%		⊖	○	⊖	○
	DB	1500	60	2.27	2.98	1451	3,197	100%		○	◇	⊖	◇
	DB	1650	66	2.55	3.33	1536	3,386	100%		X	X	○	◇
Heavy Duty (HD)	DB	750	30	0.73	0.95	1031	2,273	100%		●	●	●	●
	DB	900	36	0.95	1.24	1178	2,595	100%		●	●	●	●
	DB	1050	42	1.17	1.54	1267	2,793	100%		●	●	●	●
	DB	1200	48	1.40	1.84	1398	3,080	100%		●	⦿	●	⦿
	DB	1350	54	1.64	2.14	1459	3,215	100%		⦿	⊖	●	⊖
	DB	1500	60	1.88	2.46	1566	3,452	100%		⊖	○	⊖	○
	DB	1650	66	2.12	2.77	1697	3,740	100%		X	X	⊖	◇
	DB	1800	72	2.36	3.08	1851	4,080	100%		X	X	○	◇
	TB	1800	71	2.69	3.52	2423	5,340	100%	◇				
Severe Duty (SD)	DB	750	30	0.73	0.95	1096	2,415	90%		●	●	●	●
	DB	900	36	0.95	1.24	1252	2,760	90%		●	●	●	●
	DB	1050	42	1.17	1.54	1353	2,981	90%		●	●	●	●
	DB	1200	48	1.40	1.84	1493	3,292	90%		●	⦿	●	●
	DB	1350	54	1.64	2.14	1599	3,524	90%		⦿	⊖	●	⊖
Maximum load with coupler (payload + bucket)								kg	5232	4432	3802	4757	4027
								lb	11,531	9,768	8,379	10,484	8,875

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

Maximum Material Density:

- ● 2100 kg/m^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)
- **X** Not Recommended

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

336E L Standard Equipment

Standard Equipment

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

ENGINE

C9.3 diesel engine
Bio diesel capable
Meets EPA Tier 4 (Interim) emissions standards
2300 m (7,500 ft) altitude capability
Electric priming pump
Automatic engine speed control
Standard, economy and high power modes
Two-speed travel
Side-by-side cooling system
Radial seal air filter
Primary filter with water separator and water separator indicator switch
Fuel differential indicator switch in fuel line
2×4 micron main filters and 1×10 micron primary filter in fuel line
Water level indicator for water separator

HYDRAULIC SYSTEM

Regeneration circuit for boom and stick
Reverse swing dampening valve
Automatic swing parking brake
High performance hydraulic return filter
Capability of installing HP stackable valve and medium and QC valve
Capability of installing additional auxiliary pump (up to 80 L/min [20 gal/min]) and circuit
Capability of installing boom lowering control device and stick lowering check valve
Capability of installing Cat Bio hydraulic oil

CAB

Pressurized operator station with positive filtration
Mirror package
Sliding upper door window (left-hand cab door)
Glass-breaking safety hammer
Removable lower windshield with in cab storage bracket
Coat hook
Beverage holder
Literature holder
Radio with MP3 auxiliary audio port
Two stereo speakers
Storage shelf suitable for lunch or toolbox
Color LCD display with warning, filter/fluid change, and working hour information
Adjustable armrest
Height adjustable joystick consoles
Neutral lever (lock out) for all controls
Travel control pedals with removable hand levers
Capability of installing two additional pedals
Two power outlets, 10 amp (total)
Laminated glass front upper window and tempered other windows

UNDERCARRIAGE

Grease Lubricated Track GLT2, resin seal
Towing eye on base frame

ELECTRICAL

80 amp alternator
Circuit breaker
Capability to electrically connect a beacon

LIGHTS

Halogen boom and cab lights with time delay
Exterior lights integrated into storage box

SECURITY

Cat one key security system
Door locks
Cap locks on fuel and hydraulic tanks
Lockable external tool/storage box
Signaling/warning horn
Secondary engine shutoff switch
Openable skylight for emergency exit
Rearview camera

Optional Equipment

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

ENGINE

Electric refueling pump with auto shut off
Starting kit, cold weather, –32° C (–26° F)
Jump start receptacle
Quick drains, engine and hydraulic oil
Bio hydraulic oil package with compatible travel motors, fine filtration and bio oil

HYDRAULIC SYSTEM

Control pattern quick-changer, two way
Additional circuit
Hammer return filter circuit
Boom and stick lines
High-pressure line
Medium-pressure line
Cat quick coupler line – high- and medium-pressure capable
Quick coupler for high pressure
Tool control system

CAB

Cab hatch emergency exit
Seat, high-back air suspension with heater and cooling
Seat, high-back air suspension with heater
Sunscreen
Windshield wiper, lower with washer
AM/FM radio
Air pre-filter
Travel alarm
Left foot switch
Left pedal
Straight travel pedal
Ashtray

UNDERCARRIAGE

Long undercarriage:
700 mm (28") triple grouser shoes
800 mm (32") triple grouser shoes
850 mm (34") triple grouser shoes
Guard, full length for long undercarriage
Guard, heavy-duty bottom, 4 mm (0.16"), without swivel guard and travel motor protection
Center track guiding guard
Segmented (3 Piece) track guiding guard
Heavy-duty travel motor protection

COUNTERWEIGHT

6.0 mt (6.6 t)
7.0 mt (7.7 t)

FRONT LINKAGE

Bucket linkage, DB family with lifting eye
Bucket linkage, TB family with lifting eye
Extreme Service 6.5 m (21'4") reach boom with left- and right-side light
Extreme Service 3.2 m (10'6") stick for Extreme Service reach boom
Extreme Service 3.9 m (12'10") stick for Extreme Service reach boom
Heavy Duty 6.5 m (21'4") reach boom with left- and right-side light
Heavy Duty
R3.9DB 3900 mm (12'10") stick
R3.2DB 3200 mm (10'6") stick
Mass boom 6.18 m (20'3") with left- and right-side light
M2.55TB1 2550 mm (8'4") stick

LIGHTS

Working lights, cab mounted with time delay
HID lights, cab mounted with time delay

SECURITY

FOGS, bolt-on
Guard, cab front, mesh
Guard, vandalism
Cat MSS (anti-theft device)
Rubber bumper

TECHNOLOGY

Cat Grade Control Depth and Slope
Product Link

Notes

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

AEHQ6153-02 (04-2013)
Replaces AEHQ6153-01

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