

# 336E L

Hydraulic Excavator



## Engine

Engine Model	Cat® C9.3 (ATAAC)	
Net Power – ISO 14396	236 kW	316 hp
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	36 570 kg	80,617 lb
Maximum Weight	39 370 kg	86,796 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.



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# 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

Dig, hammer, rip, and cut with confidence



## Work Tools

An extensive range of Cat Work Tools for the 336E includes buckets, compactors, grapples, multi-processors, thumbs, rakes, rippers, and shears. Each is designed to optimize the versatility and performance of your machine.

## 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.

## Cat Center-Lock™ Pin Grabber Coupler

Center-Lock is the pin grabber style of 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.

## Hydraulic Kits

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



## Buckets

Cat buckets are designed as an integral part of the 336E system and feature new geometry for better performance. The leading edge has been pushed forward, resulting in more efficient filling and better operator control for greatly improved productivity.

Wear coverage in the corners and side cutter and sidebar protector coverage are improved; a new lift eye design accepts a wide range of shackle sizes.

All benefits are captured in a new bucket line with a new bucket naming convention. Following are the types offered:

### General Duty (GD)

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

### Heavy Duty (HD)

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

### Severe Duty (SD)

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

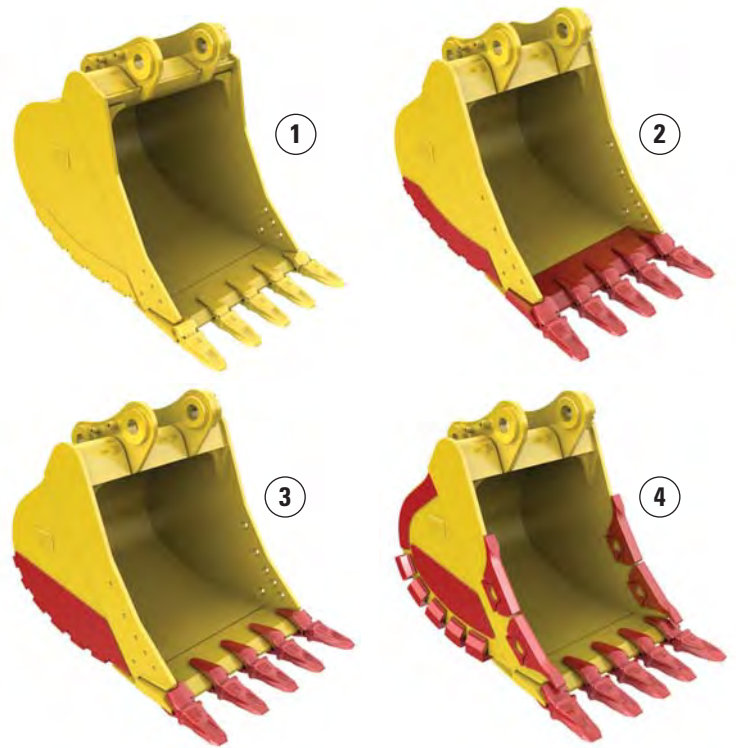
### Extreme Duty (XD)

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

### Specialty Buckets

In addition to the four levels of bucket durability categories, several specialty buckets are available for the 336E – each with a different purpose:

- **Ditch cleaning** for cleaning ditches, slope grading, and other finish work
- **Center-Lock Pin Grabber Performance** for maximum digging performance while keeping the versatility and convenience of a coupler
- **Power** for use in abrasive applications where breakout force and cycle times are critical
- **Wide tip** for low-impact material where leaving a smoother floor and minimal spillage are necessary



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



# 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).

## 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.*



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# 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 is available as an optional attachment. 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<sub>2</sub> 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.



# 336E L Hydraulic Excavator Specifications

## Engine

Engine Model	Cat® C9.3 (ATAAC)	
Net Flywheel Power	217 kW	291 hp
Net Power – ISO 14396	236 kW	316 hp
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 <sup>3</sup>

## Weights

Minimum Weight*	36 570 kg	80,617 lb
Maximum Weight**	39 370 kg	86,796 lb

\*HD Reach boom, R3.2DB (10'6") stick, 2.28 m<sup>3</sup> (2.98 yd<sup>3</sup>) GP bucket, 700 mm (28") TG shoes.

\*\*ES Reach boom, R3.9DB ES (12'10") stick, 2.28 m<sup>3</sup> (2.98 yd<sup>3</sup>) 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	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.

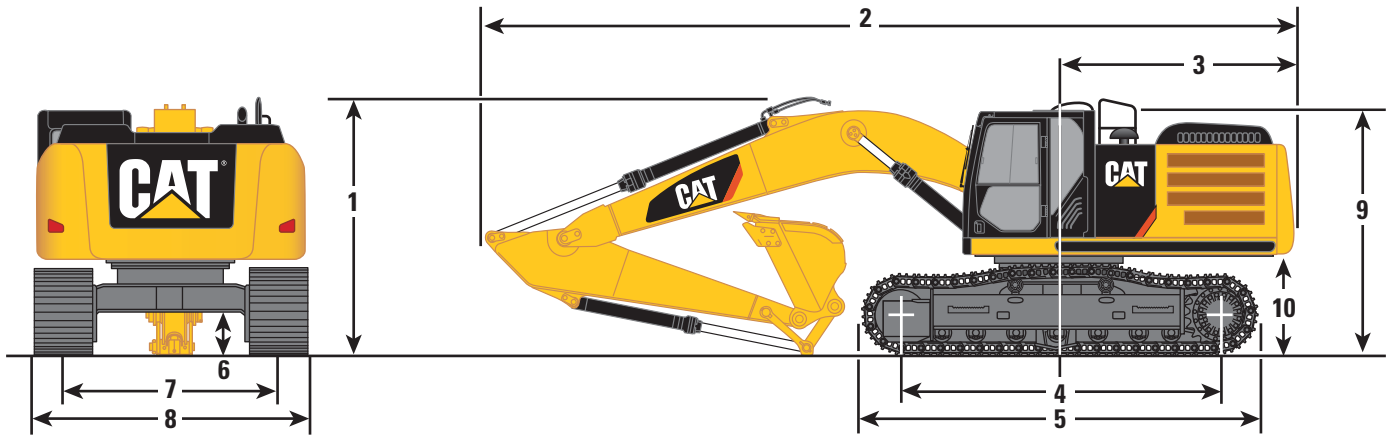
## Standards

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")**

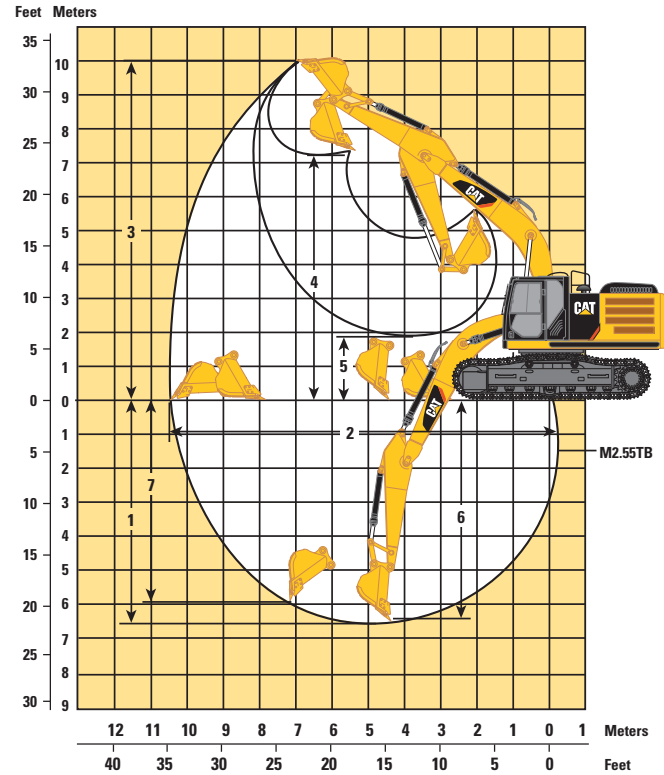
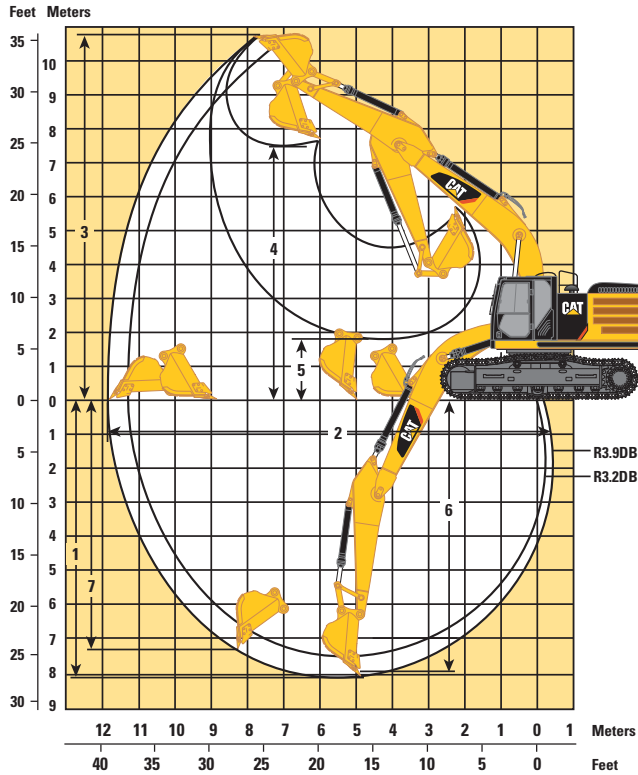
**Mass Boom  
6.18 m (20'3")**

Stick	R3.9DB (12'10")	R3.2DB (10'6")	M2.55TB (8'4")
	mm (ft)	mm (ft)	mm (ft)
<b>1</b> 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")
<b>2</b> Shipping Length	11 170 (36'8")	11 160 (36'7")	10 890 (35'9")
<b>3</b> Tail Swing Radius	3500 (11'6")	3500 (11'6")	3500 (11'6")
<b>4</b> Length to Center of Rollers			
Long Undercarriage	4040 (13'3")	4040 (13'3")	4040 (13'3")
<b>5</b> Track Length			
Long Undercarriage	5020 (16'6")	5020 (16'6")	5020 (16'6")
<b>6</b> 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")
<b>7</b> Track Gauge			
Long Undercarriage	2590 (8'6")	2590 (8'6")	2590 (8'6")
<b>8</b> 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")
<b>9</b> Cab Height	3360 (11'0")	3360 (11'0")	3360 (11'0")
Cab Height with Top Guard	1220 (4'0")	1220 (4'0")	1220 (4'0")
<b>10</b> Counterweight Clearance (without Shoe Lug Height)	3360 (11'0")	3360 (11'0")	3360 (11'0")



## 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")

# 336E L Hydraulic Excavator Specifications

## 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)
<b>Long Undercarriage</b>						
HD Reach Boom – 6.50 m (21'4")						
R3.9DB (12'10")	37 696 (83,105)	52.1 (7.56)	37 415 (82,486)	56.8 (8.24)	36 731 (80,978)	63.7 (9.23)
R3.2DB (10'6")	37 532 (82,744)	51.9 (7.53)	37 251 (82,124)	56.6 (8.20)	36 567 (80,616)	63.4 (9.19)
ES Reach Boom – 6.50 m (21'4") – including 7.0 mt (7.7 t) counterweight						
R3.9DB HD (12'10")	39 370 (86,796)	54.5 (7.90)	39 089 (86,176)	59.3 (8.60)	38 405 (84,668)	66.6 (9.65)
R3.2DB HD (10'6")	39 126 (86,258)	54.1 (7.85)	38 845 (85,638)	59.0 (8.55)	38 161 (84,131)	66.2 (9.59)
Mass Boom – 6.18 m (20'3")						
M2.55TB (8'4")	38 686 (85,288)	53.5 (7.76)	38 405 (84,668)	58.3 (8.45)	37 721 (83,160)	65.4 (9.48)

## Major Component Weights\*

	kg	lb
Lower Structure (without counterweight and track)		
LongUndercarriage	9142	20,155
Upper Structure (without front linkage)		
For 6.0 mt (6.6 t) counterweight	9677	21,312
For 7.0 mt (7.7 t) counterweight	9778	21,557
Counterweight		
6.0 mt (6.6 t)	6000	13,228
7.0 mt (7.7 t)	7000	15,432
Boom (includes lines, pins and stick cylinder)		
HD Reach Boom – 6.50 m (21'4")	3915	8,631
ES Reach Boom – 6.50 m (21'4")	4187	9,231
Mass Boom – 6.18 m (20'3")	4085	9,006
Stick (includes lines, pins and bucket cylinder)		
R3.9DBHD (12'10")	2045	4,508
R3.9DBE S (12'10")	2336	5,150
R3.2DBHD (10'6")	1881	4,147
R3.2DBE S (10'6")	2092	4,612
M2.55TB (8'4")	2216	4,885
Track shoe (Long)		
700 mm (28") triple grouser	4406	9,714
800 mm (32") triple grouser	5090	11,222
850 mm (34") triple grouser	5371	11,841
QuickCoupler	544	1,200
Buckets		
DB1536GP-C 342-2192 SAE 2.28 m <sup>3</sup> (2.98 yd <sup>3</sup> )	1556	3,430
TB1676SD 339-3748 SAE 2.41 m <sup>3</sup> (3.15 yd <sup>3</sup> )	2205	4,861

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



# 336E L Hydraulic Excavator Specifications

## Bucket and Stick Forces

Stick	Extreme Service and Heavy Duty Reach Booms 6.50 m (21'4")		Mass Boom 6.18 m (20'3")
	R3.9DB (12'10")	R3.2DB (10'6")	M2.55TB (8'4")
	kN (lbf)	kN (lbf)	kN (lbf)
General Duty			
Bucket Digging Force (ISO)	211.8 (47,610)	211.8 (47,610)	264.9 (59,550)
Stick Digging Force (ISO)	144.9 (32,570)	166.7 (37,480)	190.8 (42,890)
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)
General Duty Capacity			
Bucket Digging Force (ISO)	209.7 (47,140)	209.7 (47,140)	–
Stick Digging Force (ISO)	144.3 (32,440)	165.9 (37,300)	–
Bucket Digging Force (SAE)	187.5 (42,150)	187.5 (42,150)	–
Stick Digging Force (SAE)	140.9 (31,680)	161.4 (36,280)	–
Heavy Duty			
Bucket Digging Force (ISO)	209.9 (47,140)	209.9 (47,140)	264.9 (59,550)
Stick Digging Force (ISO)	144.5 (32,480)	166.1 (37,340)	190.8 (42,890)
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)
Heavy Duty – Power			
Bucket Digging Force (ISO)	234.2 (52,650)	234.2 (52,650)	–
Stick Digging Force (ISO)	146.6 (32,960)	169.0 (37,990)	–
Bucket Digging Force (SAE)	205.0 (46,090)	205.0 (46,090)	–
Stick Digging Force (SAE)	142.5 (32,040)	163.4 (36,730)	–
Severe Duty			
Bucket Digging Force (ISO)	209.9 (47,190)	209.9 (47,190)	261.4 (58,770)
Stick Digging Force (ISO)	144.5 (32,480)	166.1 (37,340)	190.2 (42,760)
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 (ISO)	209.9 (47,190)	209.9 (47,190)	–
Stick Digging Force (ISO)	144.5 (32,480)	166.1 (37,340)	–
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

	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

	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 *19,500	7500 15,950			*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 *23,600	*13 500 21,750	*10 900 *20,800	10 100 15,450	*9550 *20,800	7200 15,450	8350 18,350	5350 11,750	*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")

**Counterweight** – 6.0 mt (6.6 t)

**Bucket** – None

**Stick** – R3.9DB (12'10")

**Shoes** – 850 mm (34") triple grouser

	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		
	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb			
9.0 m 30.0 ft														*6250 *13,950	*6250 *13,950	7.35 23.64	
7.5 m 25.0 ft									*7700 *17,050	*7700 16,550				*5800 *12,850	*5800 *12,850	8.53 27.74	
6.0 m 20.0 ft									*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							*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					*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					*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			*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		*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		*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		*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						*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")

Counterweight – 7.0 mt (7.7 t)

Bucket – None

Stick – R3.9DB (12'10")

Shoes – 800 mm (32") triple grouser

	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")

Counterweight – 7.0 mt (7.7 t)

Bucket – None

Stick – R3.2DB (10'6")

Shoes – 800 mm (32") triple grouser

	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 *23,150	*13 300 *23,150	*10 700 *23,150	*10 700 *23,150	*9350 *20,350	7700 16,600	*8400 16,600	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.

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

# 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


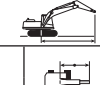
**Boom** – 6.50 m (21'4")

**Counterweight** – 7.0 mt (7.7 t)

**Bucket** – None

**Stick** – R3.9DB (12'10")

**Shoes** – 850 mm (34") triple grouser

	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	
	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb		
9.0 m 30.0 ft														*6150 *13,650	*6150 *13,650	7.35 23.64
7.5 m 25.0 ft									*7500 *16,550	*7500 *16,550				*5700 *12,600	*5700 *12,600	8.53 27.74
6.0 m 20.0 ft									*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							*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					*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		*5200 *12,550	4650 10,250	10.10 33.11
1.5 m 5.0 ft					*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			*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		*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		*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		*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						*12 850 *27,050	*12 850 *27,050	*9050 *9050						*8900 *19,500	*8900 *19,500	6.06 19.44


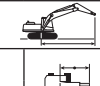
**Boom** – 6.50 m (21'4")

**Counterweight** – 7.0 mt (7.7 t)

**Bucket** – None

**Stick** – R3.2DB (10'6")

**Shoes** – 850 mm (34") triple grouser

	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	
	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb		
7.5 m 25.0 ft									*8600 *19,100	8050 17,200				*7300 *16,200	*7300 *16,200	7.70 24.98
6.0 m 20.0 ft									*8700 *19,100	8000 17,200				*7100 *15,650	6350 14,150	8.58 28.00
4.5 m 15.0 ft					*13 300 *29,150	*13 300 *29,150	*10 700 *23,150	*10 700 *23,150	*9350 *20,350	7750 16,700	*8400 *18,500	5800 12,700		*7150 *15,750	5650 12,450	9.13 29.88
3.0 m 10.0 ft					*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					*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					*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			*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			*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			*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																

\*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")

**Counterweight** – 6.0 mt (6.6 t)

**Bucket** – None

**Stick** – M2.55TB (8'4")

**Shoes** – 800 mm (32") triple grouser

	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					
Rakes					
Center-Lock Pin Grabber Coupler					
Dedicated Quick Coupler					

These work tools are available for the 336E. Consult your Cat dealer for proper match.

\*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 M2.55 (8'4")	Heavy Duty Boom		Extreme Service Boom		
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb			%	R3.2 HD (10'6")	R3.9 HD (12'10")	R3.2 ES (10'6")	R3.9 ES (12'10")
<b>Without Quick Coupler</b>														
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

### Maximum Material Density:

- 2100 kg/m<sup>3</sup> (3,500 lb/yd<sup>3</sup>)
- ⊙ 1800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)
- ⊖ 1500 kg/m<sup>3</sup> (2,500 lb/yd<sup>3</sup>)
- 1200 kg/m<sup>3</sup> (2,000 lb/yd<sup>3</sup>)
- X Not Recommended

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.

## 336E L Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Mass Boom	Heavy Duty Boom		Extreme Service Boom		
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	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")	
<b>With Center-Lock Quick Coupler</b>														
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<sup>3</sup> (3,500 lb/yd<sup>3</sup>)
- ⊙ 1800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)
- ⊖ 1500 kg/m<sup>3</sup> (2,500 lb/yd<sup>3</sup>)
- 1200 kg/m<sup>3</sup> (2,000 lb/yd<sup>3</sup>)
- ◇ 900 kg/m<sup>3</sup> (1,500 lb/yd<sup>3</sup>)
- X Not Recommended

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

# 336E L 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-ready



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  
Tool 21, Electronic Control device, 1/2P, one-way circuit  
Tool 20, Electronic Control device, (common), 1/2P, common circuit  
Tool 25, Electronic Control device, 1P, two-way circuit

## 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  
Rearview camera and mirrors

## TECHNOLOGY

Cat Grade Control Depth and Slope  
Product Link







# 336E L Hydraulic Excavator

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

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