336E H

Hydraulic Excavator

Engine		
Engine Model	Cat® C9.3 (ATAAC)	
Net Power – SAE J1349	230 kW	308 hp

Drive		
Maximum Travel Speed	4.9 km/h	3 mph
Maximum Drawbar Pull	295 kN	66,319 lbf
Weights		
Minimum Operating Weight	37 000 kg	81,600 lb
Maximum Operating Weight	37 200 kg	82,000 lb

Introduction

If you are looking for a large machine to do more work with less fuel, look no further than the new 336E H, the industry's first hydraulic hybrid excavator. This unique machine uses recovered energy from the swing to load your trucks all-day long using up to 33 percent less fuel than our powerful 336D machine doing the same amount of work.*

More important than being first is being best at delivering the most production with the least amount of fuel to reduce your overall costs and make your business more profitable.

Bottom line is the new 336E H is designed to put more money in your pocket while making you more competitive, and that's good news for you, your family, and your customers.

**90-degree truck loading in 90% compacted material.*

Contents


CAT
336E
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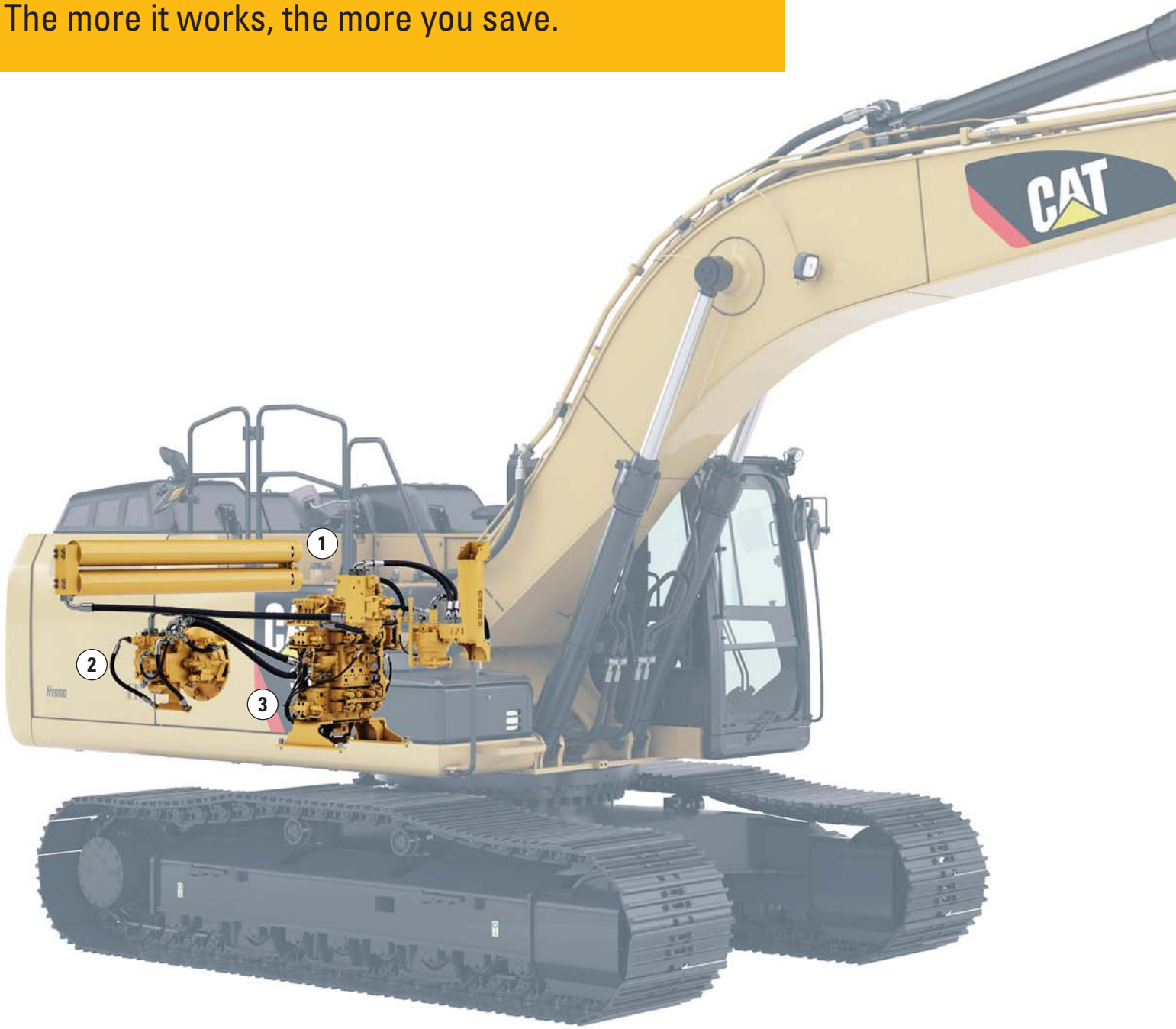
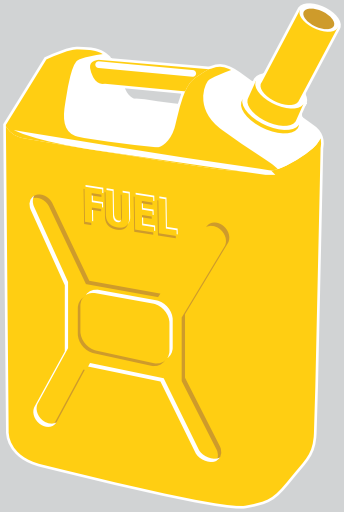
HYBRID

Hydraulics

The more it works, the more you save.



1 – Hydraulic Hybrid Swing System
2 – Electronic Standardized Programmable (ESP) Pump
3 – Adaptive Control System (ACS) Valve



Up to

25%

less fuel consumption than 336E – the fuel economy and performance leader in its class

Up to

33%

less fuel consumption than 336D

The 336E H uses three building block technologies to deliver outstanding fuel savings and performance for you:

- The Cat Electronic Standardized Programmable (ESP) pump smoothly transitions between the hydraulic hybrid power sources, engine, and accumulator to conserve fuel.
- The Cat Adaptive Control System (ACS) valve optimizes performance by intelligently managing restrictions and flows to control machine motion, which means your operators will have the power and precision they need and expect.
- The Cat Hydraulic Hybrid Swing System captures the excavator's upper structure swing brake energy in accumulators and then reuses the energy during swing acceleration.

Bottom line is the hydraulic hybrid system is a simple, reliable, and cost-effective solution that will help you significantly reduce your cost per ton.

Hydraulic Horsepower, a Cat Advantage

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, pump and other system components put more power to the ground, which means moving more material in less time and keeping more money in your pocket at the end of the day.

Engine

Reduced emissions, economical and reliable performance you can count on.

The Cat C9.3 ACERT™ Tier 4 Interim engine is built to meet your demanding needs all day long. There is no interruption to your job process because the Cat regeneration system works automatically with no operator intervention required. If your operators are working in heat-restricted areas, they can use a manual override button to move the machine before the regeneration process begins.

Power Modes

The 336E H features three power modes to help manage fuel consumption: High power, standard power, and economy. Two additional fuel-saving features are on-demand engine power and engine idle shutdown. On-demand engine power keeps speed low during light loading and idling; it automatically adjusts speed up when it senses a heavier load. Engine idle shutdown automatically shuts the engine off when idling for more than a specified amount of time that you set, which can save significant amounts of fuel and reduce emissions.

Biodiesel-Ready Fuel System

The 336E H runs on ultra-low-sulfur diesel fuel, but you have added flexibility with the C9.3 ACERT engine because it's equipped to run on biodiesel fuel up to B20. Just fill it up and go.

Seats

Not only is the cab as quiet as today's top pickup trucks, but several seat options help give your operators all the comfort they need for a long day of work. Air suspension and heated seats are available, and all include a reclining back, upper and lower seat slide adjustments, and height and tilt angle adjustments.

Operator Station

Your operators will enjoy the incredibly quiet and comfortable cab.

Controls

Your operators can adjust the right and left joysticks for individual preferences, making the machine much easier to operate and improving their productivity. They can also adjust the joystick control pattern electronically through the cab monitor instead of through a manual valve system. A heavy lift mode increases machine system pressure to improve lift – a nice benefit for your operators in certain situations. It also reduces engine speed and pump flow to improve controllability.

Monitor

Your operators can focus on the job at hand with a high-resolution LCD monitor that is programmable in 42 languages to support today's diverse workforce. It also projects the image from the rearview camera, further increasing job site safety and productivity.

Power Supply and Auxiliary Audio Port

The operator station includes two 12-volt power supply sockets located near the key storage areas for charging electronic devices such as MP3 players and cell phones. An auxiliary port allows operators to plug and play MP3 audio through the cab's speakers.

Storage

Your operators can store their gear in storage spaces located in the front, rear, and side consoles. A dedicated space near the auxiliary power supply will hold an MP3 player and cell phone. The drink holder accommodates large mugs with handles, and a shelf behind the seat stores large lunch or toolboxes.

Automatic Climate Control

An automatic climate control system features five air outlets with filtered ventilation to make your operators comfortable in either hot or cold climates.

Structures & Undercarriage

You can take on a variety of tough tasks with this built-to-last machine.

Frame

You can expect excellent quality, reliability, and durability with the 336E H's reinforced lower and upper frames. Both are built to handle a hard day's work over and over again.

Undercarriage

Long undercarriage supports any type of work required from a 36-ton machine. Heavy-duty track rollers, precision forged carrier rollers, press-fit pin master joints, and enhanced track shoe bolts enhance machine durability and reduce the risk of downtime and your need to replace components. A three-piece guiding guard helps maintain track alignment and will improve your machine's overall performance.

Counterweight

Whether you are truck loading or trenching, a 4.9 mt (5.4 t)* counterweight gives you plenty of weight and balance for the high-production work this machine is designed to take on. With integrated links, the counterweight can easily be removed for maintenance or shipping.

**Two accumulators and a bracket provide additional weight.*

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 H.

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

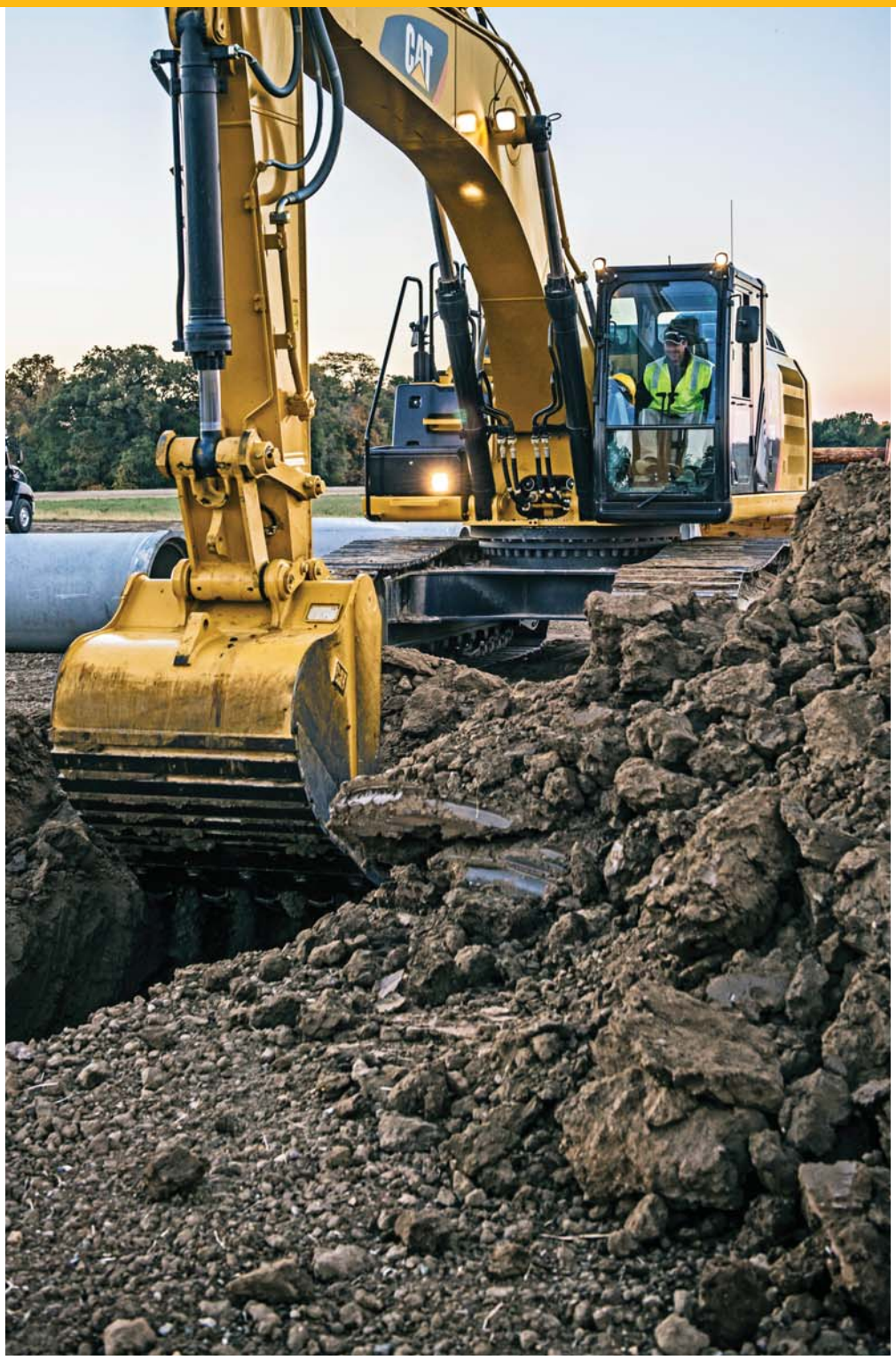
Secondary Pulverizers

Hydraulic Hammers

Rippers

Front Linkage

You'll experience a long service life even in the harshest of conditions.



Your uptime and service intervals are increased with high-quality, durable, and reliable booms, sticks, and linkage pins. Each boom and stick is built with internal baffle plates for additional durability, and each undergoes ultrasound inspection to ensure quality and reliability for the tough work you do.

There is one heavy-duty reach boom and two heavy-duty stick options: a 6.5 m (21'4") boom and a 3.2 m (10'6") and 3.9 m (12'10") stick.

The heavy-duty reach boom covers all the applications this size of machine was designed to take on such as digging dirt, moving rock, placing pipe, and the endless amount of tasks that can be done with Cat hydraulic work tools.

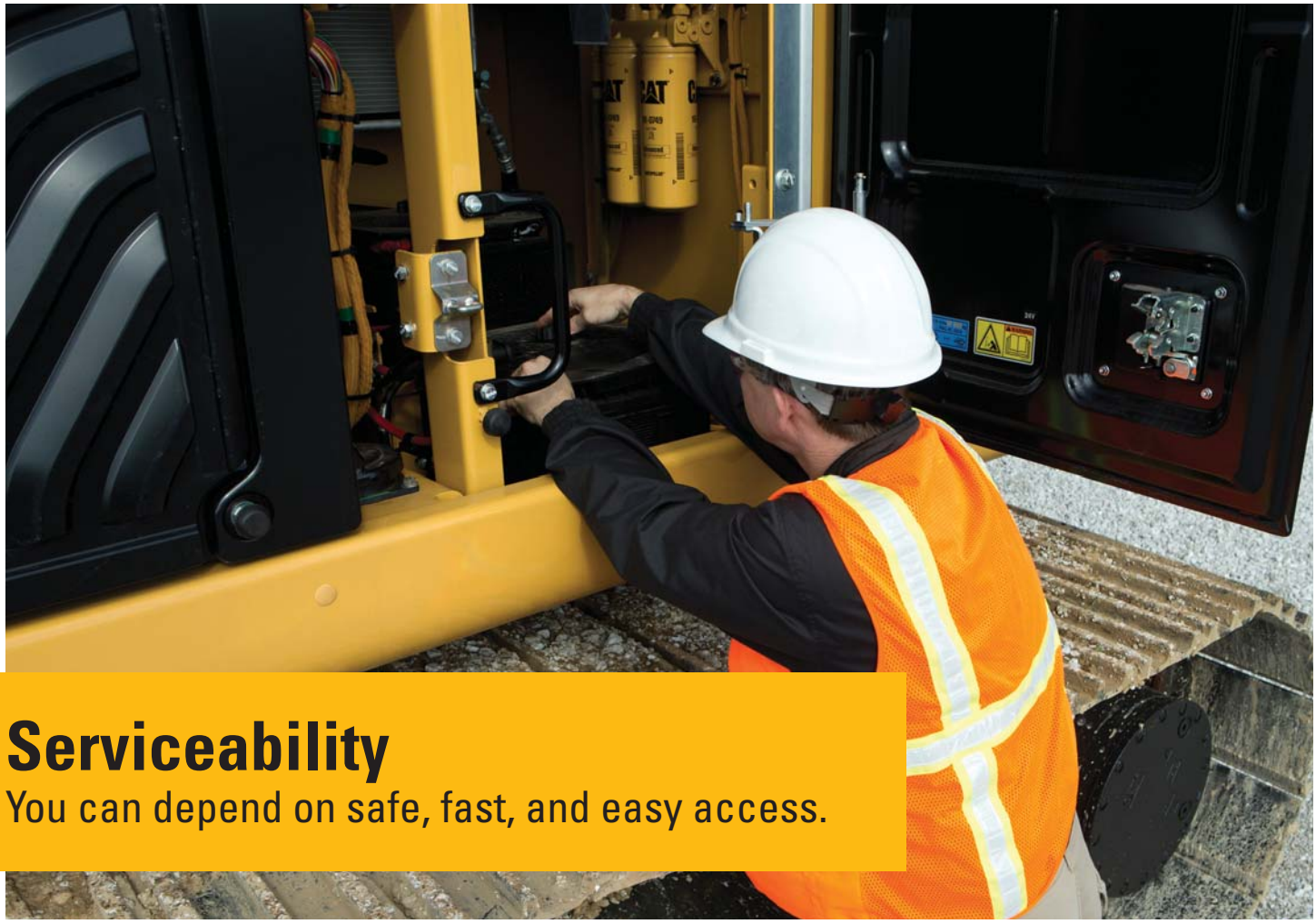
The longer 3.9 m (12'10") stick is best for deep trenching and truck loading or simply when more reach is needed in an application; the shorter 3.2 m (10'6") stick is best for shallow digging where more breakout force is needed or if you plan on primarily using hydro-mechanical work tools to complete your job.

Integrated Technologies

Make your team's work easier and more efficient.

Cat Product Link™

You can monitor and improve your fleet management with Cat Product Link. The integrated system reports events, diagnostic codes, hours, fuel consumption, location, and other pieces of detailed machine information to the secured web-based application called Vision Link™ . The powerful tools within Vision Link communicate with you and your authorized Cat dealer to help avoid downtime and better maintain your fleet.



Serviceability

You can depend on safe, fast, and easy access.

Ground-Level Compartments

Your service technicians have ground-level access to the radiator, pump, and air cleaner compartments through wide service doors, making it easy for them to reach, check, and replace fluids and filters.

Other Service Benefits

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 engine oil dipstick is conveniently located in the front of the engine compartment.

The fuel tank's remote drain cock makes it easy and simple to remove water and sediment during routine maintenance.

Overfilling the fuel tank is significantly reduced with an integrated fuel level indicator.

Safety

Several built-in features will help protect your people.

Roll-Over Protective Structure (ROPS) Cab

Your operators will benefit from the enhanced protection of a ROPS-certified cab.

Sound Proofing

Roof lining and sealing make your operator's sound experience inside the cab comparable to any of today's top pickup trucks. In fact, you won't believe it's running.

Anti-Skid Plates

Your operator and service technicians' slipping hazards are reduced with anti-skid plates on the surface of the upper structure and the top of the storage box area.

Steps, Hand and Guard Rails

Service technicians can work securely on the machine with extended hand and guard rails to the upper deck and steps on the track frame and storage box.

Lights

Halogen lights provide plenty of illumination. They can be programmed to stay on for up to 90 seconds after the engine has been turned off to help your operators safely exit the machine.

Windows

You can easily store both the upper and lower windows in the cab. Overhead visibility and lighting are enhanced with a large skylight that can double as an emergency exit.

Rearview Camera

Your operator has a clear view behind the machine through the monitor with an available rearview camera. It is housed in the counterweight for increased protection.

Complete Customer Care

Your Cat dealer will support you like no other.

Product Support

You can maximize your machines' uptime with the Cat worldwide dealer network. You can also decrease your repair costs by utilizing Cat remanufactured components.

Machine Selection

What are your job requirements and machine attachments? What production do you need? Your Cat dealer can provide recommendations to help you make the right machine configuration.

Purchase

You can ensure lower owning and operating costs by utilizing unique Cat dealer services and financing options.

Customer Support Agreements

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

Operation

You can boost your profits by improving your operators' techniques. Your Cat dealer has videos, literature, and other ideas to help 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 evaluate the cost involved so you can make the best choice for your business.

- The 336E H moves as much material as a standard 336E yet burns up to 25% less fuel in truck loading applications. This means more efficiency and productivity for you with less resource consumption and fewer CO_2 emissions.
- In terms of CO_2 reduction, a 25% fuel advantage is equivalent to removing 12 passenger cars off the road annually.
  Source: EPA website.
- The 336E H has the flexibility of running on either ultra-low-sulfur diesel (ULSD) fuel with 15 ppm of sulfur or less or biodiesel fuel up to B20 blended with ULSD.
- An overfill indicator rises when the tank is full to help your service technicians avoid spilling.
- You can ensure fast, easy, and secure changing of engine and hydraulic oil with the Cat QuickEvac™ system.
- A unique engine oil filter eliminates the need for painted metal cans and aluminum top plates. The cartridge-style spin-on housing enables the internal filter to be separated and replaced; the used internal element can be incinerated to help reduce waste.

Sustainability

Your machine is designed to benefit generations ahead.

336E H Hydraulic Excavator Specifications

Engine

Engine Model	Cat C9.3 (ATAAC)	
Net Power – SAE J1349	230 kW	308 hp
Gross Power – SAE J1995	241 kW	328 hp
Bore	115 mm	4.53 in
Stroke	149 mm	5.87 in
Displacement	9.3 L	568 in^3

Weights

Minimum Operating Weight	37 000 kg	81,600 lb
Maximum Operating Weight	37 200 kg	82,000 lb

Hydraulic System

Main System – Maximum Flow (Total)	570 L/min	150 gal/min
Swing System – Maximum Flow	276 L/min	73 gal/min
Maximum Pressure – Equipment		
Heavy Lift	37 000 kPa	5,366 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	28 L/min	7.4 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 Bucket Cylinder – Bore	150 mm	5.9 in
DB Bucket Cylinder – Stroke	1151 mm	45.3 in

Drive

Maximum Travel Speed	4.9 km/h	3.0 mph
Maximum Drawbar Pull	295 kN	66,319 lbf

Swing Mechanism

Swing Speed	9.0 rpm	
Swing Torque	109 kN·m	80,394 lbf-ft

Service Refill Capacities

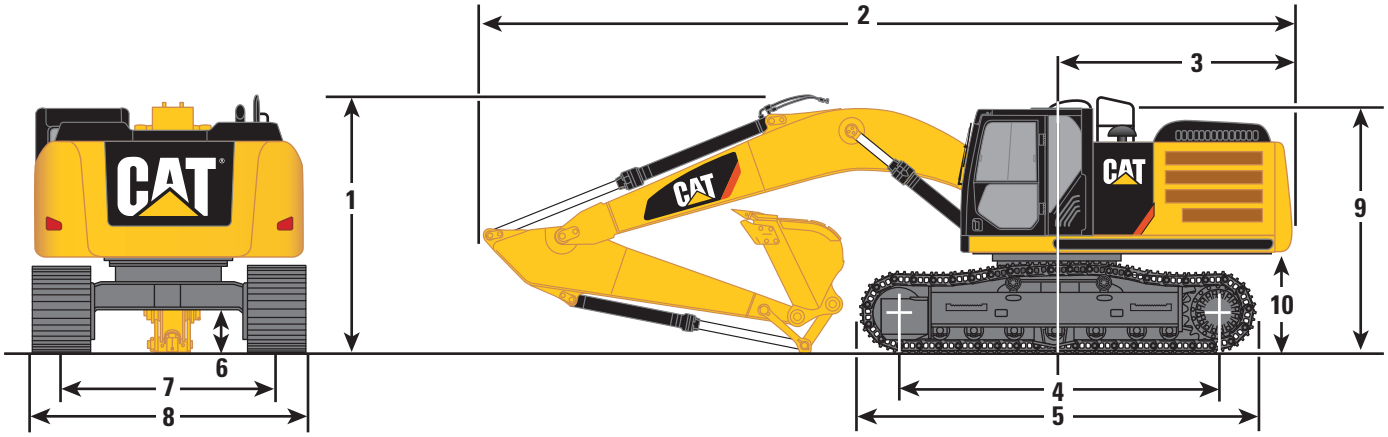
Fuel Tank Capacity	620 L	163.8 gal
Cooling System	56 L	14.8 gal
Engine Oil (with filter)	30.5 L	8.1 gal
Swing Drive (each)	19 L	5.0 gal
Final Drive (each)	8 L	2.1 gal
Hydraulic System (including tank)	380 L	100.4 gal
Hydraulic Tank	175 L	46.2 gal

Sound Performance

Operator Noise – SAE J1166	71 dB(A)

Dimensions

All dimensions are approximate.

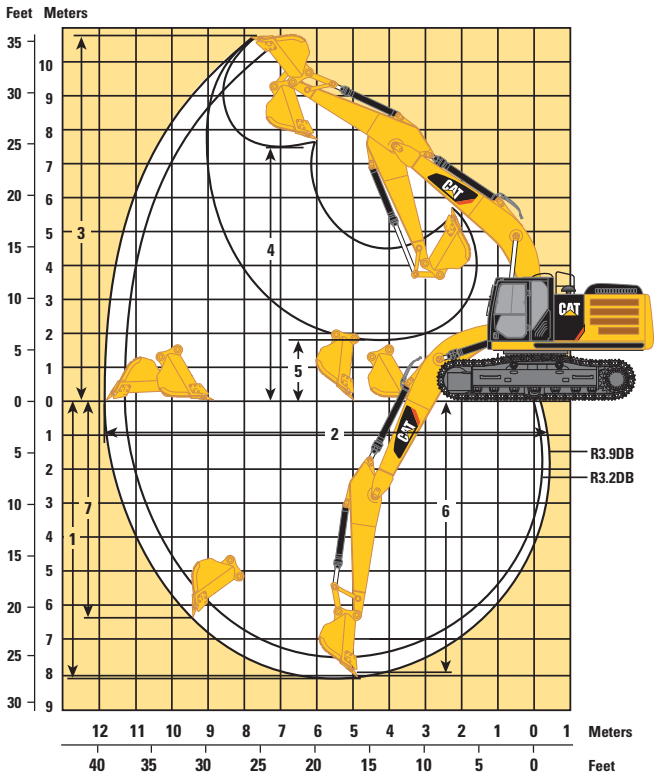


		HD Reach Boom 6.50 m (21'4")			
	Stick	**R3.9DB**	**12'10"**	**R3.2DB**	**10'6"**
1	Shipping Height including Shoe Lug Height	3660 mm	12'0"	3510 mm	11'6"
	Shipping Height with Top Guard	3660 mm	12'0"	3510 mm	11'6"
2	Shipping Length	11 170 mm	36'8"	11 160 mm	36'7"
3	Tail Swing Radius	3490 mm	11'5"	3490 mm	11'5"
4	Length to Center of Rollers				
	Long Undercarriage	4040 mm	13'3"	4040 mm	13'3"
5	Track Length				
	Long Undercarriage	5020 mm	16'6"	5020 mm	16'6"
6	Ground Clearance including Shoe Lug Height	510 mm	1'8"	510 mm	1'8"
	Ground Clearance without Shoe Lug Height	480 mm	1'7"	480 mm	1'7"
7	Track Gauge				
	Long Undercarriage	2590 mm	8'6"	2590 mm	8'6"
8	Transport Width				
	Long Undercarriage – 850 mm (34") Shoes	3440 mm	11'3"	3440 mm	11'3"
9	Cab Height	3150 mm	10'4"	3150 mm	10'4"
	Cab Height with Top Guard	3360 mm	11'0"	3360 mm	11'0"
10	Counterweight Clearance without Shoe Lug Height	1220 mm	4'0"	1220 mm	4'0"

336E H Hydraulic Excavator Specifications

Working Ranges

All dimensions are approximate.



		HD Reach Boom 6.50 m (21'4")			
	Stick	**R3.9DB**	**12'10"**	**R3.2DB**	**10'6"**
1	Maximum Digging Depth	8190 mm	26'10"	7490 mm	24'7"
2	Maximum Reach at Ground Level	11 720 mm	38'5"	11 020 mm	36'2"
3	Maximum Cutting Height	10 740 mm	35'3"	10 320 mm	33'10"
4	Maximum Loading Height	7500 mm	24'7"	7110 mm	23'4"
5	Minimum Loading Height	1910 mm	6'3"	2610 mm	8'7"
6	Maximum Depth Cut for 2440 mm (8'0") Level Bottom	7610 mm	25'0"	6820 mm	22'5"
7	Maximum Vertical Wall Digging Depth	6310 mm	20'8"	5500 mm	18'1"

Major Component Weights*

Lower Structure (without counterweight and track)		
Long Undercarriage	8700 kg	19,200 lb
Upper Structure (without front linkage)	10 000 kg	22,000 lb
Counterweight 4.9 mt (5.4 t)	4900 kg	10,800 lb
Boom (includes lines, pins and stick cylinder)		
HD Reach Boom – 6.50 m (21'4")	4100 kg	9,000 lb
Stick (includes lines, pins and bucket cylinder)		
R3.9DB HD (12'10")	2100 kg	4,600 lb
R3.2DB HD (10'6")	1800 kg	4,000 lb
Track Shoe (Long)		
850 mm (34") Triple Grouser	5400 kg	11,900 lb
Quick Coupler	540 kg	1,200 lb
Bucket		
DB1536GP-C 342-2192 SAE 2.28 m^3 (2.98 yd^3)	1500 kg	3,300 lb

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

Operating Weight and Ground Pressure

			850 mm (34") Triple Grouser Shoes	
HD Reach Boom – 6.50 m (21'4")				
R3.9DB (12'10")	37 200 kg	82,000 lb	48.9 kPa	7.1 psi
R3.2DB (10'6")	37 000 kg	81,600 lb	48.7 kPa	7.1 psi

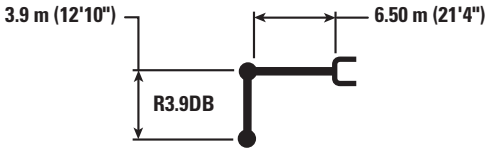
Bucket and Stick Forces

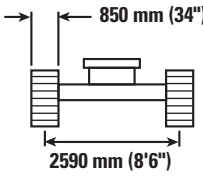
	HD Reach Boom 6.50 m (21'4")			
Stick	**R3.9DB**	**12'10"**	**R3.2DB**	**10'6"**
General Duty				
Bucket Digging Force (SAE)	188.5 kN	42,380 lbf	188.5 kN	42,380 lbf
Stick Digging Force (SAE)	141.5 kN	31,810 lbf	162.1 kN	36,440 lbf
Heavy Duty				
Bucket Digging Force (SAE)	184.9 kN	41,570 lbf	184.9 kN	41,570 lbf
Stick Digging Force (SAE)	140.7 kN	31,630 lbf	161.1 kN	36,220 lbf
Severe Duty				
Bucket Digging Force (SAE)	184.9 kN	41,570 lbf	184.9 kN	41,570 lbf
Stick Digging Force (SAE)	140.7 kN	31,630 lbf	161.1 kN	36,220 lbf
Extreme Duty				
Bucket Digging Force (SAE)	184.9 kN	41,570 lbf	184.9 kN	41,570 lbf
Stick Digging Force (SAE)	140.7 kN	31,630 lbf	161.1 kN	36,220 lbf

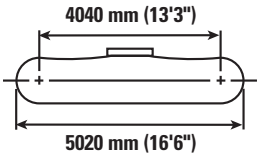
Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, 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 H Hydraulic Excavator Specifications

HD Reach Boom Lift Capacities – Counterweight: 4.9 mt (5.4 t) – Heavy Lift: On







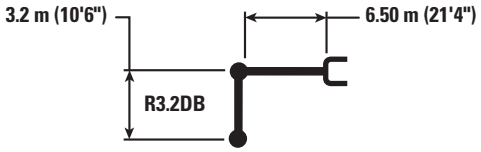
		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
																m ft
9.0 m **30.0 ft**	kg **lb**													*6050 ***13,450**	*6050 ***13,450**	7.35 **23.64**
7.5 m **25.0 ft**	kg **lb**									*7400 ***16,300**	*7400 **16,200**			*5600 ***12,400**	*5600 ***12,400**	8.53 **27.74**
6.0 m **20.0 ft**	kg **lb**									*7650 ***16,800**	7400 **15,950**	*7250 ***14,000**	5400 **11,550**	*5450 ***12,000**	5050 **11,200**	9.33 **30.48**
4.5 m **15.0 ft**	kg **lb**							*9400 ***20,300**	*9400 ***20,300**	*8400 ***18,250**	7150 **15,400**	*7850 ***17,150**	5300 **11,350**	*5450 ***12,000**	4550 **10,000**	9.84 **32.22**
3.0 m **10.0 ft**	kg **lb**					*14 700 ***31,550**	14 600 **31,500**	*11 100 ***24,000**	9500 **20,500**	*9300 ***20,250**	6800 **14,650**	8150 **17,450**	5150 **11,000**	*5650 ***12,350**	4250 **9,350**	10.10 **33.11**
1.5 m **5.0 ft**	kg **lb**					*17 700 ***38,150**	13 400 **28,900**	*12 750 ***27,550**	8900 **19,200**	*10 250 ***22,250**	6500 **13,950**	7950 **17,050**	4950 **10,650**	*5950 ***13,100**	4100 **9,050**	10.12 **33.22**
0.0 m **0.0 ft**	kg **lb**			*8250 ***18,750**	*8250 ***18,750**	*19 250 ***41,650**	12 750 **27,450**	*13 900 ***30,050**	8500 **18,250**	10 150 **21,850**	6200 **13,400**	7750 **16,700**	4800 **10,300**	*6500 ***14,300**	4150 **9,150**	9.93 **32.56**
–1.5 m **–5.0 ft**	kg **lb**	*8650 ***19,250**	*8650 ***19,250**	*12 900 ***29,150**	*12 900 ***29,150**	*19 500 ***42,250**	12 500 **26,900**	14 000 **30,050**	8250 **17,750**	10 000 **21,450**	6050 **13,050**	7700 **16,550**	4700 **10,150**	7150 **15,750**	4400 **9,700**	9.48 **31.09**
–3.0 m **–10.0 ft**	kg **lb**	*13 650 ***30,550**	*13 650 ***30,550**	*18 850 ***42,550**	*18 850 ***42,550**	*18 650 ***40,400**	12 550 **26,950**	13 950 **29,950**	8200 **17,650**	9950 **21,400**	6050 **13,000**			8000 **17,700**	4950 **10,900**	8.76 **28.66**
–4.5 m **–15.0 ft**	kg **lb**	*19 600 ***44,050**	*19 600 ***44,050**	*23 050 ***49,700**	*23 050 ***49,700**	*16 650 ***35,800**	12 750 **27,450**	*12 600 ***27,050**	8350 **17,950**	*9450 ***19,900**	6200 **13,400**			*9050 ***19,900**	6000 **13,350**	7.69 **25.01**
–6.0 m **–20.0 ft**	kg **lb**					*12 650 ***26,650**	*12 650 ***26,650**	*8950	8750					*8800 ***19,250**	8650 ***19,250**	6.06 **19.44**

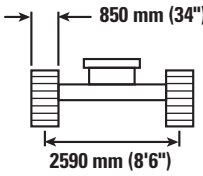
* **ISO 10567**

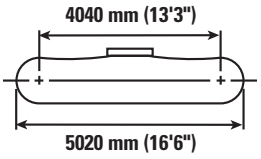
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

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

HD Reach Boom Lift Capacities – Counterweight: 4.9 mt (5.4 t) – Heavy Lift: 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**									*8500	7400			*7200 ***15,900**	7050 **15,850**	7.70 **24.98**
6.0 m **20.0 ft**	kg **lb**									*8600 ***18,800**	7350 **15,750**			*7000 ***15,400**	5850 **12,950**	8.58 **28.00**
4.5 m **15.0 ft**	kg **lb**					*13 050	*13 050	*10 500 ***22,750**	10 000 **21,550**	*9200 ***20,050**	7100 **15,300**	*8250	5300	*7050 ***15,500**	5150 **11,400**	9.13 **29.88**
3.0 m **10.0 ft**	kg **lb**					*16 500 ***35,500**	14 200 **30,700**	*12 150 ***26,250**	9400 **20,300**	*10 050 ***21,850**	6800 **14,650**	8150 **17,500**	5150 **11,100**	*7300 ***16,100**	4800 **10,600**	9.40 **30.84**
1.5 m **5.0 ft**	kg **lb**					*19 000 ***41,000**	13 250 **28,550**	*13 600 ***29,400**	8900 **19,150**	10 450 **22,550**	6500 **14,050**	8000 **17,200**	5000 **10,800**	7450 **16,400**	4700 **10,300**	9.43 **30.96**
0.0 m **0.0 ft**	kg **lb**					*19 850 ***42,950**	12 850 **27,650**	14 300 **30,750**	8550 **18,450**	10 250 **22,050**	6300 **13,600**	7900 **16,950**	4900 **10,600**	7600 **16,750**	4750 **10,450**	9.22 **30.25**
–1.5 m **–5.0 ft**	kg **lb**			*14 100 ***31,900**	*14 100 ***31,900**	*19 450 ***42,150**	12 750 **27,450**	14 150 **30,400**	8400 **18,150**	10 150 **21,800**	6200 **13,400**			8200 **18,050**	5100 **11,200**	8.74 **28.65**
–3.0 m **–10.0 ft**	kg **lb**			*22 200 ***50,300**	*22 200 ***50,300**	*18 050 ***39,050**	12 900 **27,700**	*13 750 ***29,650**	8450 **18,200**	10 200 **21,950**	6250 **13,500**			9400 **20,800**	5800 **12,900**	7.96 **26.00**
–4.5 m **–15.0 ft**	kg **lb**			*20 250 ***43,600**	*20 250 ***43,600**	*15 300 ***32,800**	13 200 **28,400**	*11 600 ***24,650**	8700 **18,750**					*9800 ***21,500**	7450 **16,650**	6.75 **21.90**

* **ISO 10567**

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

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

Work Tool Offering Guide*

Boom Option	HD Reach Boom	
Stick Option	**R3.9DB (12'10")**	**R3.2DB (10'6")**
Hammer	H16Es**	H160Es
Multi-Processor	MP20 with all jaw options	MP20 with all jaw options
Mobile Scrap and Demolition Shear	S325B** S365C***	S325B S365C***
Pulverizer	P225	P225 P235**
Compactor (Vibratory Plate)	CVP110	CVP110
Thumbs	These work tools are available for the 336E H. Consult your Cat dealer for proper match.	
Rippers		
Rakes		
Center-Lock™ Pin Grabber Coupler		
Dedicated Quick Coupler		

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

**Pin-on only.

***Boom Mount.

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	HD Reach Boom	
		mm	in	m^3	yd^3	kg	lb	%	R3.2DB (10'6")	R3.9DB (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
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%	●	◉
								kg	4810	4125
								lb	5,896	9,092

Maximum load pin-on (payload + bucket)

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

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.

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 H Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

		Width		Capacity		Weight		Fill	HD Reach Boom	
	Linkage	mm	in	m^3	yd^3	kg	lb	%	R3.2DB (10'6")	R3.9DB (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
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	4252	3567
								lb	9,371	7,862

Maximum Material Density:

- ● 2100 kg/m^3 (3,500 lb/yd^3)
- ◉ 1800 kg/m^3 (3,000 lb/yd^3)
- ⊖ 1500 kg/m^3 (2,500 lb/yd^3)
- ○ 1200 kg/m^3 (2,000 lb/yd^3)
- ◇ 900 kg/m^3 (1,500 lb/yd^3)
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Capacity based on ISO 7451.

Bucket weight with General Duty tips.

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Standard Equipment

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

CAB
- Pressurized operator station with positive filtration
- Mirror package
- Sliding upper door window
- 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 for lunch or toolbox
- Color LCD monitor
- Adjustable armrest
- Height-adjustable joystick consoles
- Neutral lever 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
- Tempered glass other windows
- Cab hatch emergency exit
- Sunscreen
- Windshield wiper, lower with washer
- AM/FM radio
- Air pre-filter
- Travel alarm
- Straight travel pedal

COUNTERWEIGHT
- 4.9 mt (5.4 t)

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

ENGINE
- C9.3 diesel engine
- Biodiesel capable
- Meets U.S. EPA Tier 4 Interim emission standards
- 2300 m (7,500 ft) altitude capability
- Electric priming pump
- Automatic engine speed control
- Standard, economy and high power modes
- Two-speed travel
- 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
- Starting kit, cold weather, –32° C (–26° F)
- Jump start receptacle
- Quick drains, engine and hydraulic oil

FRONT LINKAGE
- Bucket linkage, DB family with lifting eye
- HD 6.5 m (21'4") reach boom with left- and right-side light

HYDRAULIC SYSTEM
- Automatic swing parking brake
- Joystick control pattern change through monitor
- High performance hydraulic return filter
- Capability of installing HP stackable valve and medium and QC valve
- Capability of installing additional auxiliary pump and circuit
- Capability of installing boom lowering control device and stick lowering check valve

LIGHTS
- Working lights, cab mounted with time delay
- Halogen boom and cab lights with time delay
- Exterior lights integrated into storage box

UNDERCARRIAGE
- 850 mm (34") triple grouser shoes
- Grease Lubricated Track (GLT2) with resin seal
- Towing eye on base frame
- Guard, heavy-duty bottom
- Segmented (3 piece) track guiding guard
- Heavy-duty travel motor protection

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

TECHNOLOGY
- Product Link

Optional Equipment

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

FRONT LINKAGE
- Heavy-duty R3.9DB 3900 mm (12'10") stick
- Heavy-duty R3.2DB 3200 mm (10'6") stick

HYDRAULIC SYSTEM
- Additional circuit
- Boom and stick lines
- High-pressure line
- Cat quick coupler line – high- and medium-pressure capable
- Quick coupler for high pressure
- Tool control system

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

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

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(North America)