345D
345D L

Hydraulic Excavator

Available with Variable or Fixed Gauge Undercarriage
For CIS, Sourced from Akashi, Japan

Cat® C13 Diesel Engine with ACERT™ Technology	
Net Power (ISO 9249) at 1800 rpm	283 kW/385 hp
Operating Weight	45 030 to 51 070 kg
Maximum Travel Speed	4.7 km/h
Maximum Reach	12.1 m
Maximum Digging Depth	8.1 m

345D/345D L Hydraulic Excavator

High performance and rugged durability combine to maximize your productivity.

C13 Engine with ACERT™ Technology

ACERT™ Technology works at the point of combustion to optimize engine performance and provide low exhaust emissions to meet emission regulations, with exceptional performance capabilities and proven reliability. **pg. 4**

Hydraulics

The hydraulic system has been designed to provide reliability and outstanding controllability. An optional Tool Control System provides enhanced flexibility. **pg. 5**

Operator Station

Provides maximum space, excellent visibility and easy access to all switches. The monitor is a full-color graphical display that allows the operator to understand the machine information easily. Overall, the cab provides a comfortable environment for the operator. **pg. 6**

Application and System Match

The 345D is designed for matched performance with Cat articulated trucks. Five to six passes under two minutes, matched to the Cat® 735 gives you maximum system production. **pg. 10**

Buckets, Work Tools

A variety of work tools, including buckets, couplers, hammers, crushers, pulverizers, multiprocessors, shears and grapples are available through Cat Work Tools. **pg. 11**

Complete Customer Support

Your Cat dealer offers a wide range of services – from assistance with configuring your machine to best match your application to customer support agreements to meet your maintenance needs. Repair Option Programs guarantee the cost of repairs up front and help you to avoid unscheduled repairs. **pg. 14**

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

Undercarriage

Cat designed excavator undercarriage is stable, durable and low maintenance. The undercarriage is a long, variable gauge type for good machine stability and lift capacity. **pg. 8**

Booms, Sticks and Linkage

Built for good performance and long service life, Cat® booms and sticks are box-section structures with thick multiplate fabrications to resist high stress. Two lengths of booms and five types of sticks are available, offering a range of configurations suitable for a wide variety of applications and conditions. **pg. 9**

Structures

Caterpillar® design and manufacturing techniques assure outstanding durability and service life from these important components. **pg. 10**

Designed for Safety, Cleaner for the Environment

Quiet operation, safe accessibility and increased visibility help keep operators and job sites safe while lower emissions help protect the environment. **pg. 13**

Service and Maintenance

Fast, easy service has been designed in with extended service intervals, advanced filtration, convenient filter access and user-friendly electronic diagnostics for increased productivity and reduced maintenance costs. **pg. 14**

C13 Engine with ACERT™ Technology

Built for power, reliability, economy and low emissions.

Performance. The 345D, equipped with the C13 with ACERT™ Technology provides 18% more power compared to the 345C L. The building blocks of ACERT Technology are fuel delivery, air management, and electronic control – providing better fuel economy and reduced wear.

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

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

Emissions. The 345D equipped with the Caterpillar C13 engine can meet EU Stage IIIA or EU Stage II emissions requirements.

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

Cooling System. The 345D layout completely separates the cooling system from the engine compartment. The cooling fan is hydraulically driven with variable speed control based on the ambient temperature, coolant temperature, and hydraulic oil temperature. This unique feature assists in the management of engine power and improves noise efficiency while providing optimized cooling.

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

Turbocharger. The Cat C13 engine uses a wastegate turbocharger for improved performance.

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

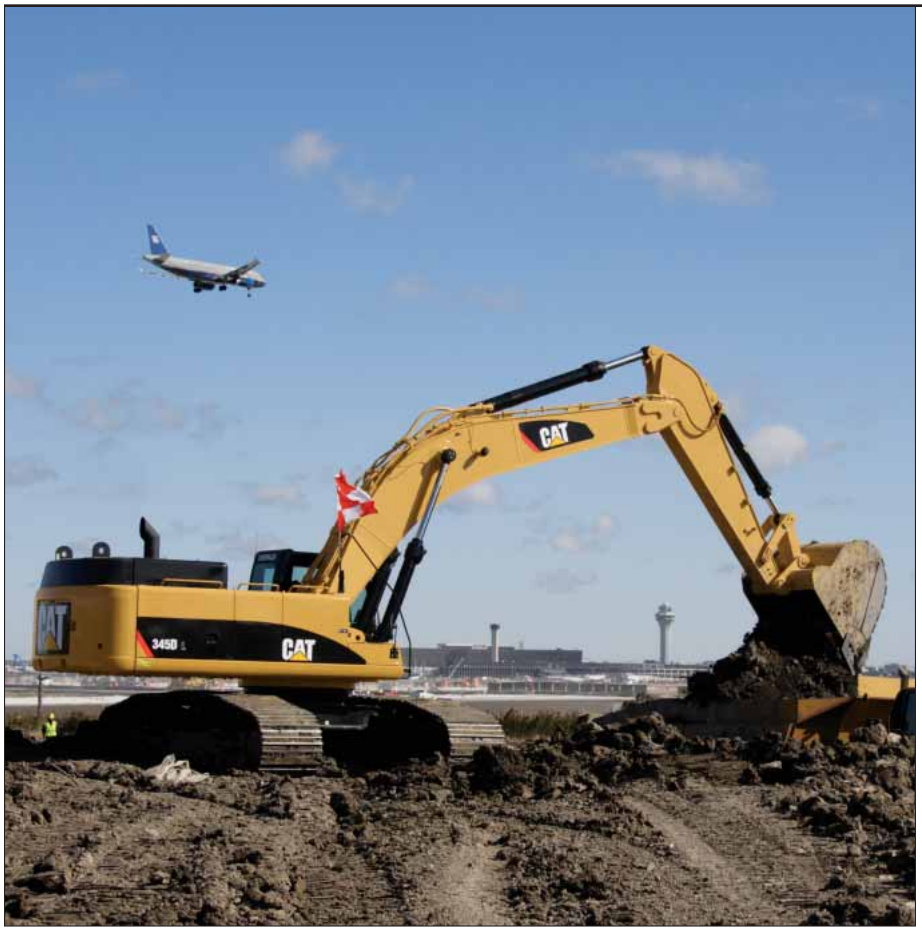
Power Management Modes. The Power Modes are selected from the monitor menu. They allow selecting optimal machine performances for each type of application.

- High Power Mode is recommended for applications where high productivity is essential or for hard digging applications.
- Power Management Mode is for applications requiring similar performance as 345C L, but with better fuel efficiency.
- Economy Mode is for applications where fuel economy is a priority over productivity.

The Power Management Mode and Economy Mode performances are achieved through finely tuned hydraulic horsepower and engine RPM management.

Hydraulics

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



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

Component Layout. The component location and hydraulic system design provide the highest level of system efficiency. The main pumps, control valve and hydraulic tank are located as close to each other as possible. This design makes it possible to use shorter tubes and lines between components, reducing friction losses and pressure drops.

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

Boom and Stick Regeneration Circuits. A hydraulically operated stick regeneration circuit saves energy and improves multi-function performance during the stick-in operation. New on the 345D, the boom regeneration circuit is operated electrically, managed by the machine ECM. The system improves cycle times and fuel efficiency, increasing your productivity and reducing operating costs.

Boom and Swing Priority. The hydraulic system on the 345D provides automatic priority function for boom-up and swing operations eliminating the need for work mode buttons. When the boom or swing lever is activated, the system automatically assigns priority based on operator demand.

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

Auxiliary Hydraulic Valve. A hydraulically controlled auxiliary valve is standard on the 345D. Control circuits are available as attachments, allowing operation of high and medium pressure tools such as shears, grapples, hammers, pulverizers, multi-processors and vibratory plate compactors.

Operator Station

Designed for simple, easy operation, the 345D allows the operator to focus on production.

Cab Design. The workstation is spacious, quiet and comfortable, assuring high productivity during a long work day. The air conditioner and attachment switches are conveniently located on the right-hand wall, and the key switch and throttle dial are on the right-hand console. The monitor is easy to see with excellent visibility.

Seat. A high-back, mechanically suspension seat is available on the 345D. It allows a variety of adjustments to suit the operator's size and weight and provides a comfortable working environment. Wide adjustable armrests and a retractable seatbelt are also included.

Skylight. An enlarged skylight with sunshade provides excellent visibility and good ventilation.

Hydraulic Activation Control Lever. For added safety, this lever must be in the operate position to activate the machine control functions.

Climate Control. Positive filtered ventilation with a pressurized cab comes standard on the 345D. Fresh air or re-circulated air can be selected with a switch on the left console.

Windows. All glass is affixed directly to the cab, eliminating window frames and providing excellent visibility. The upper front windshield opens, closes and stores on the roof above the operator with a one-touch action release system.

Wipers. Pillar-mounted wipers increase the operator's viewing area and offer continuous and intermittent modes.

Monitor. The compact, full color graphical monitor, displays machine maintenance, diagnostic and prognostic information, in twenty-seven different languages. The monitor angle can be adjusted to minimize sun glare.

Cab Exterior. The exterior design uses thick steel tubing along the bottom perimeter of the cab, improving the resistance of fatigue and vibration. This design allows the FOGS to be bolted directly to the cab, at the factory or as an attachment later, enabling the machine to meet specifications and job site requirements.

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

Travel Controls. The 345D uses pilot operated control levers, positioned so the operator can operate with arms on the armrests. The vertical stroke is longer than the horizontal stroke, reducing operator fatigue. The control lever grips are shaped to fit into the operator's hands. The horn switch and one-touch low idle switch are positioned on the left and right grip.

Electronic Control System

Manages the engine and hydraulics for maximum performance.

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

Standard Cab Equipment. To enhance operator comfort and productivity, the cab includes a lighter, drink holder, coat hook, service meter, literature holder, magazine rack and storage compartment.

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

Product Link. Equipment monitoring with access to world-class dealer service. Product Link uses wireless and satellite technology to gather and transmit essential information, related to machine usage, maintenance and location. This information is easily accessible through a secure, web-based application, Equipment Manager.

Depending on your level of subscription, Product Link will:

- Report current equipment parameters (SMU, location, fault codes, etc.)
- Track all elements of machine maintenance and keep machine history
- Predict when a service is needed
- Help you schedule maintenance and order parts more efficiently
- Alert you to potential and immediate problems

Monitor Display Screen. The monitor is a full color 400 x 234 pixels Liquid Crystal Display (LCD) graphic display. The Master Caution Lamp blinks ON and OFF when one of these critical conditions occur:

- Engine oil pressure low
- Coolant temperature high
- Hydraulic oil temperature high

Under the normal conditions or the default condition, the monitor display screen is divided into four areas: clock and throttle dial area, gauge area, event display area and multi-information display area.

Power Management Modes. The power modes – Economy, Power Management, High Power – are selected from the monitor menu. The selection of individual power modes allows a user to match machine performance to application requirements, enabling the operator to select a mode for optimal performance with lower fuel consumption.

Fuel Consumption. The 345D provides instant fuel consumption on the monitor.

Clock and Throttle Dial Area. The clock, throttle dial position and green gas-station icon are displayed in this area.

Gauge Area. Three analog gauges, fuel level, hydraulic oil temperature and coolant temperature, are displayed in this area.

Event Display Area. Machine information is displayed in this area with the icon and language.

Multi-information Display Area. This area is reserved for displaying information that is convenient for the operator. The "CAT" logo is displayed when no information is available to be displayed.

Undercarriage

Durable undercarriage absorbs stresses and provides excellent stability.

Undercarriage Options. The 345D comes standard with a grease lubricated track called GLT4. The track links are assembled and sealed with grease to decrease internal bushing wear, reduce travel noise, and lower operating costs by extending service life. Track with Positive Pin Retention 2 (PPR2) and Cast Idlers are available as attachments on the 345D.

The PPR2 prevents loosening of the track pin from the track link and the Cast Idler is designed for extended life. Both options are ideal for extreme applications such as working on blasted rock or those that require a large amount of travel.

Travel Motors. Two-speed axial piston hydraulic motors provide the 345D drive power and speed selection. When the high-speed position is selected, the machine automatically changes between computer-controlled high and low speeds depending on drawbar-pull requirements.

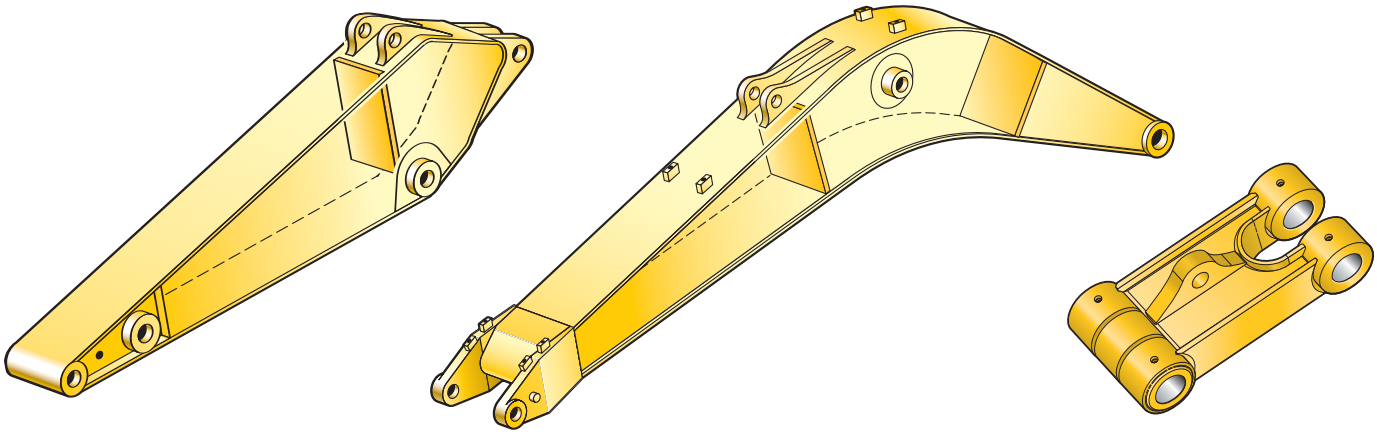
Straight-line Travel Circuit. The straight-line travel circuit is incorporated into the hydraulic system, which maintains low-speed, straight-line travel, even when operating the front linkage.

Final Drive. The final drives are a three-stage planetary reduction. This design results in a complete drive/brake unit that is compact and delivers excellent performance and reliability.

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

Booms, Sticks and Linkage

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



Front Linkage Attachments. Select the right combination of front linkage with your Cat dealer to ensure high productivity from the very start of your job. Two types of booms and four sticks are available, offering a range of configurations suitable for a wide variety of applications and offer a large combination of reach and digging forces for optimum versatility. All booms and sticks undergo a stress relieving process for greater durability.

Boom Construction. The 345D booms have large cross-sections and internal baffle plates to provide long life and durability. Castings and forgings are used in critical high-load areas such as the boom-foot and boom cylinder connection.

Heavy Duty Reach Boom. The 6900 mm HD Reach boom is designed to balance reach, digging force and bucket capacity. The HD Reach Boom is ideal for a wide range of applications.

Mass Excavation Boom. The 6550 mm Mass boom is designed to provide maximum digging forces, bucket capacity and truck loading productivity. The Mass boom comes with two stick options for further job site versatility.

Stick Construction. The 345D sticks are made of high-tensile strength steel, using a large box section design, interior baffle plates and an additional bottom guard to protect against damage. The Quarry stick provides reinforcement bars on the stick.

Mass Sticks. Two Mass Quarry sticks are available for higher digging forces and increased bucket capacity. Mass sticks use UB-family bucket linkage and buckets.

- **M2.5UB.** The 2500 mm stick is intended for mass excavation applications with very large buckets with high force requirements.
- **M3.0UB.** The 3000 mm stick provides excellent digging envelope with large bucket capacity and high force levels.

Reach Sticks. Two lengths of reach sticks are available to suite a variety of applications. Reach sticks use the TB-family bucket linkage and buckets.

- **R2.9TB.** The 2900 mm stick has a good digging envelope and handles large bucket sizes.
- **R3.4TB.** The 3350 mm stick offers the most versatility and is suited to all types of applications and bucket capacities.
- **R3.9TB.** The 3900 mm stick offers maximum reach for applications requiring extended working ranges and maximum digging depth.

Power Link. The 345D power link improves durability, increases machine-lifting capability in key lifting positions, and is easier to use compared to the previous lift bar designs.

Linkage Pins. All pins used in front linkages have thick chrome plating, giving them high wear and corrosion resistance. The large diameter pins smoothly distribute the shear and bending loads to help ensure long pin, boom and stick life.

Structures

The 345D structural components are the backbone of the machine's durability.

Carbody. The carbody utilizes a columnless design that allows the swing bearing to be directly mounted on the top plate for excellent rigidity and strength.

The advanced carbody design stands up to the toughest applications.

- Modified H-shaped, box-section carbody provides excellent resistance to torsional bending.
- Robot-welded track roller frames with fabricated U-section design.
- Robot welding ensures consistent, high-quality welds throughout the manufacturing process.

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

Track Roller Frame. Uses a press-formed, pentagonal section for the track frame that is robot-welded for weld consistency and quality. The track frame has been designed so that the top of the track frame has a steep angle to help prevent accumulation of mud and debris.

Applications and Systems Match

The 345D is designed for matched performance with Cat Articulated Trucks.

Wide Range of Front End Attachments. The ability to select different front-end attachments provides adaptability for a wide range of job conditions in a variety of applications such as construction, mining, or quarry. Depending on the front-end configuration, and material density, the 345D can be matched with the 730 to 740 articulated trucks. Additionally, systems match offers versatility in job set-up whether top loading or same level truck loading.

Optimum Pass Match Design. Five to six passes under two minutes, matched to the Cat 735, gives you maximum system production at the lowest cost per ton of material moved.

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

Work Tools

The 345D has an extensive selection of buckets and work tools to optimize machine performance.

Work Tools. Choose from a variety of work tools such as hammers, shears, pulverizers, compactors, multiprocessors, sorting grapples and couplers. Ask your Cat dealer for information on attachments or special configurations.

Excavation (X). Digs and loads soft to medium materials such as clay and earth. Features weld on tip adapters, wear resistant steel alloy cutting edge and wear plates, and high grade steel side bars.

Mass Excavation (MX). For digging in low-impact, moderately abrasive materials such as dirt, loam, gravel and clay. Large tip radius optimizes bucket capacity for easy-to-penetrate soils. Lighter structures decrease load time and increase the weight that can be lifted. Pre-drilled sidebars for optional side-cutters.Largest bucket capacities.

Extreme Service Excavation (EX). Digs and loads compact/abrasive materials like earth/rock, sand/clay, sand/gravel, coal, chalk and low abrasion ores. Features bigger ground engaging tools, plus all wear resistant steel alloy cutting edge, wear plates and side bars.

V Type Excavation (VX). For aggressive bucket digging and loading in highly abrasive applications such as granite and basalt. Features V-spade cutting edge and extreme wear package.

Caterpillar Ground Engaging Tools (GET). Caterpillar® K Series™ GET is featured on the 345D buckets. The K Series™ system uses a vertical retainer, which is easier to remove and install than the old Cat J Series pin. There are a variety of teeth, side cutters, and sidebar protectors to match operating conditions.

- The teeth are designed to be extremely aggressive and offer excellent penetration.
- The side-cutter design is aggressive in trenching applications, improving efficiency and bucket payload.

Service Life. Caterpillar® buckets increase service life and reduce repair costs.

- Dual radius design for increased life and reduced wear.
- Robot welding of hinge assembly for increased weld penetration and longer life.
- Incorporates the aggressive and easier to install K Series™ GET system.
- High strength and heat-treated steel that exceeds T-1 in high wear areas.

Tool Control System. This system maximizes work tool productivity by configuring hydraulic flow, pressure and operator controls to match a specific work tool. System versatility enables a wide range of tools to be used Ten hydraulic pump flow and pressure setting can be preset, on the monitor, eliminating the need to adjust the hydraulics each time a tool is changed. The unique Cat proportional sliding switches provides modulation to the tool and the precision work easy.

Bucket Specifications

This machine can be equipped with a large variety of boom-stick-bucket combinations in order to meet the needs of various applications.

A stick is designed to match only one specific family of buckets.

All bucket matching is calculated with 1800 kg/m³

Fixed Gauge Undercarriage	Linkage	Width	Weight*	Capacity (ISO)	Reach boom 6900 mm			ME boom 6550 mm	
		mm	kg	m³	R2.9TB	R3.35TB	R3.9TB	M2.5UB	M3.0UB
Excavation (X)	TB	1325	1563	1.6				×	×
	TB	1525	1724	1.9				×	×
	TB	1630	1706	2.0			×	×	×
	TB	1760	1774	2.2		×	×	×	×
	UB	1585	2431	2.1	×	×	×		
Extreme Excavation (EX)	TB	1604	2120	1.9				×	×
	TB	1664	2164	2.0			×	×	×
	TB	1724	2220	2.1		×	×	×	×
Mass Excavation (ME)	UB	1829	2226	2.6	×	×	×	×	×
V-Type Excavation	UB	1535	2453	2.1	×	×	×		
	UB	1585	2431	2.2	×	×	×		×
	UB	1700	2153	2.4	×	×	×		×

Long Fixed Gauge Undercarriage	Linkage	Width	Weight*	Capacity (ISO)	Reach boom 6900 mm			ME boom 6550 mm	
		mm	kg	m³	R2.9TB	R3.35TB	R3.9TB	M2.5UB	M3.0UB
Excavation (X)	TB	1325	1563	1.6				×	×
	TB	1525	1724	1.9				×	×
	TB	1630	1706	2.0			×	×	×
	TB	1760	1774	2.2		×	×	×	×
	UB	1585	2431	2.1	×	×	×		×
Extreme Excavation (EX)	TB	1604	2120	1.9				×	×
	TB	1664	2164	2.0			×	×	×
	TB	1724	2220	2.1		×	×	×	×
Mass Excavation (ME)	UB	1829	2226	2.6	×	×	×	×	×
V-Type Excavation	UB	1535	2453	2.1	×	×	×		×
	UB	1585	2431	2.2	×	×	×		
	UB	1700	2153	2.4	×	×	×		×

Variable Gauge Undercarriage	Linkage	Width	Weight*	Capacity (ISO)	Reach boom 6900 mm			ME boom 6550 mm	
		mm	kg	m³	R2.9TB	R3.35TB	R3.9TB	M2.5UB	M3.0UB
Excavation (X)	TB	1325	1563	1.6				×	×
	TB	1525	1724	1.9				×	×
	TB	1630	1706	2.0				×	×
	TB	1760	1774	2.2				×	×
	UB	1585	2431	2.1	×	×	×		
Extreme Excavation (EX)	TB	1604	2120	1.9				×	×
	TB	1664	2164	2.0				×	×
	TB	1724	2220	2.1				×	×
Mass Excavation (ME)	UB	1829	2226	2.6	×	×	×		×
V-Type Excavation	UB	1535	2453	2.1	×	×	×		
	UB	1585	2431	2.2	×	×	×		
	UB	1700	2153	2.4	×	×	×		

* Bucket weight including K Series Penetration Plus tips

Approved

× Not compatible

Designed for Safety

Cat machines are designed to keep operators and jobsites safe.

Visibility. An optional Rear vision camera and Work Area Vision System can be installed improving safety for the operator, as well as other machines and personnel working around the excavator.

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

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

Cleaner for the Environment

Caterpillar has long invested in technology, products and services that reduce the impact of earthmoving equipment on the environment.

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

Fuel Management. A fuel consumption display allows the operator to monitor their fuel consumption. Three Power Management Modes allow the operator to select a mode for optimal performance with lower fuel consumption.

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

Cat Reman Parts. We recycle used products into "like-new" Cat Reman products that offer the same performance and quality as new parts at a fraction-of-new price. Environmentally reconditioned reman parts are available for this machine.

Service and Maintenance

Simplified service and maintenance save you time and money.

Extended Service Intervals. Extended service and maintenance intervals increase machine availability. The maintenance intervals for engine oil, engine oil filter and water separator for fuel line have been extended to 500 hours, hydraulic oil to 2000 hours for normal applications with S•O•S℠ analysis monitoring.

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

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

Radial Seal Main Air Cleaner. The radial seal main air cleaner with pre-cleaner has a double-layered filter element for more efficient filtration. No tools are required to change the element.

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

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

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

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

Electric Priming Pump. An electric fuel-priming pump replaces the engine-mounted manual fuel-priming pump and the control switch is located in the rear left compartment close to the air filter for easy access.

Complete Customer Support

Cat dealer services help you operate longer with lower costs.

The right machine for your business. Your Cat dealer will guide you through your machine selection process, helping you choose the right machine for your specific industry and applications.

The most attractive finance package from Cat Financial. Cat Financial specialises in equipment financing and has a reputation as a trusted partner. Whatever your business, your Cat dealer and Cat Financial offer a range of flexible, highly competitive financial solutions for new Cat machines, making it faster and easier to obtain the Cat equipment you need.

The most cost-effective Cat Customer Support Agreement. Cat Customer Support Agreements are the most effective way of running your machine at peak performance and eliminating the risk, cost, disruption and loss of revenue caused by unscheduled downtime.

The most beneficial Cat Warranty. The warranty coverage from your Cat dealer is backed by the worldwide resources of Caterpillar and is specifically designed to provide the highest levels of repair cost protection for Cat machines. This comprehensive coverage will enhance and sustain your entire ownership experience and provide complete peace of mind.

Cat experts are always available to help you make the decisions that are best for your business.

Engine

Cat C13 with ACERT Technology	
Net Power at 1800 rpm	
ISO 9249	283 kW/385 hp
EEC 80/1269	283 kW/385 hp
Bore	130 mm
Stroke	157 mm
Displacement	12.5 liters
Cylinders	6

- All engine horsepower (hp) are metric including front page.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- No engine derating required below 2300 m altitude.

Brakes

Meets the standard ISO 10265:1998

Track

Track width with long undercarriage:	
Double grouser, heavy duty	
600 mm and 750 mm	
Triple grouser, heavy duty	
600 mm, 750 mm and 900 mm	
Number of shoes each side	52
Number of rollers each side	9
Number of carrier rollers each side	
Variable Gauge	3
Fixed Gauge	2

Cab/FOGS

Cab/FOGS meets ISO 10262.

Drive

Maximum Travel Speed	4.7 km/h
Maximum Drawbar Pull	338 kN

Swing Mechanism

Swing Speed	8.9 rpm
Swing Torque	149 kNm

Hydraulic System

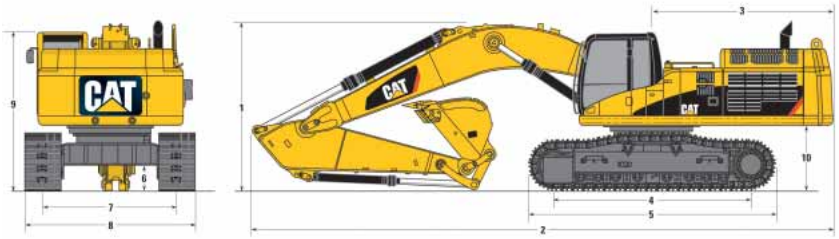
Main System	
Maximum flow	734 l/min
Maximum pressure	
Normal	350 bar
Travel	350 bar
Swing	314 bar
Pilot System	
Maximum flow	43 l/min
Maximum pressure	41 bar
Boom Cylinder	
Bore	160 mm
Stroke	1575 mm
Stick Cylinder	
Bore	190 mm
Stroke for reach front	1778 mm
Stroke for ME front	1758 mm
TB Family Bucket Cylinder	
Bore	160 mm
Stroke	1356 mm
UB Family Bucket Cylinder	
Bore	170 mm
Stroke	1396 mm
Main normal relief pressure	350 bar

Service Refill Capacities

	Liters
Fuel Tank	710
Cooling System	71
Engine Oil	42
Swing Drive (each)	10
Final Drive (each)	15
Hydraulic system (including tank)	570
Hydraulic tank	262

Dimensions

All dimensions are approximate.



			HD Reach Boom			ME Boom	
Boom		mm		6900		6550	
Stick		mm	2900	3350	3900	2500	3000
1	Shipping height						
	Fixed Gauge	mm	3670	3550	3700	3970	3990
	Variable Gauge	mm	3730	3520	3540	3990	4010
2	Shipping length						
	Fixed Gauge	mm	11 880	11 840	11 890	11 640	11 550
	Variable Gauge	mm	11 850	11 520	11 780	11 600	11 520

			Fixed	Variable
3	Tail swing radius	mm	3770	3770
4	Length to centers of rollers			
	345D	mm	4030	N/A
	345D L	mm	4340	4340
5	Track length			
	345D	mm	5040	N/A
	345D L	mm	5370	5330
6	Ground clearance	mm	510	760
7	Track gauge	mm	2740	2390/2890
8	Track width			
	600 mm shoes	mm	3340	2990/3490
	750 mm shoes	mm	3490	3140/3640
	900 mm shoes	mm	3640	3290/3790
9	Cab height	mm	3210	3360
10	Counterweight clearance	mm	1320	1470

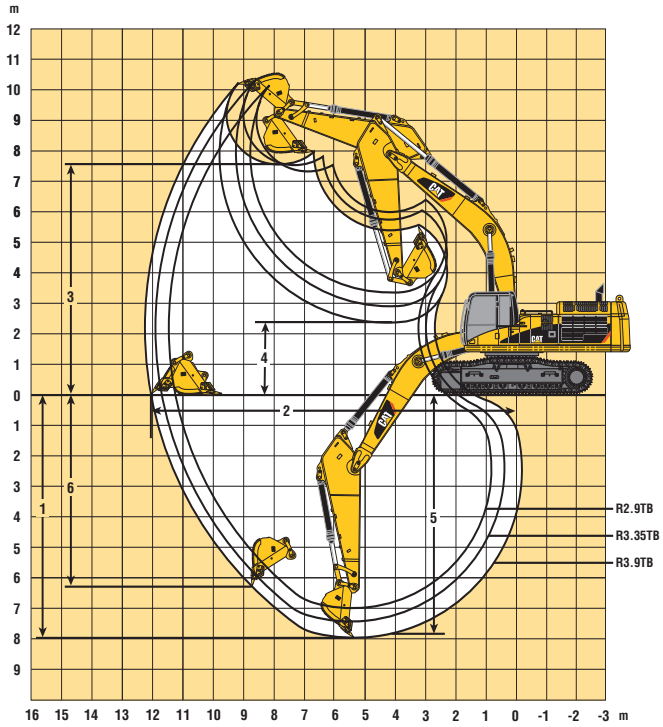
Machine and Major Component Weights

Actual weights and ground pressures will depend on final machine configuration.

		HD Reach boom 6900 mm						ME boom 6550 mm			
Stick type		R2.9TB		R3.35TB		R3.9TB		M2.5UB		M3.0UB	
Stick length	mm	2900		3350		3900		2500		3000	
Gauge		FG	VG	FG	VG	FG	VG	FG	VG	FG	VG
Bucket weight	kg	1922	1922	1812	1812	1668	1829	2326	2398	2238	2326
Bucket capacity	m^3	2.2	2.2	2.0	2.0	1.6	1.9	2.4	2.6	2.2	2.4
Bucket width/type	mm	1758	1758	1628	1628	1325	1525	1729	1829	1600	1729
Operating weight*											
345D with 600 mm shoes	kg	44 924	N/A	44 856	N/A	45 837	N/A	45 378	N/A	46 067	N/A
345D with 750 mm shoes	kg	45 663	N/A	45 595	N/A	45 576	N/A	46 117	N/A	46 806	N/A
345D L with 600 mm shoes	kg	45 120	48 298	45 052	49 340	45 033	48 949	45 667	49 699	45 760	50 289
345D L with 750 mm shoes	kg	45 871	50 082	45 803	50 124	45 784	49 733	46 418	50 483	46 511	51 073
345D L with 900 mm shoes	kg	46 623	N/A	46 555	N/A	46 536	N/A	47 170	N/A	47 263	N/A
Counterweight	kg	8000	9000	8000	9000	8000	9000	8000	9000	8000	9000
Stick weight (with bucket cylinder)	kg	1952	1952	1994	1994	2119	2119	2189	2189	2370	2370
Boom weight (with stick cylinder)	kg	4594						4602			
Boom cylinders (pair)	kg	804						804			
Upper structure**	kg	20 275						20 275			
Undercarriage											
345D with 600 mm shoes	kg	14 843						14 843			
345D L with 600 mm shoes	kg	15 039	17 794	15 039	17 794	15 039	17 794	15 039	17 794	15 039	17 794

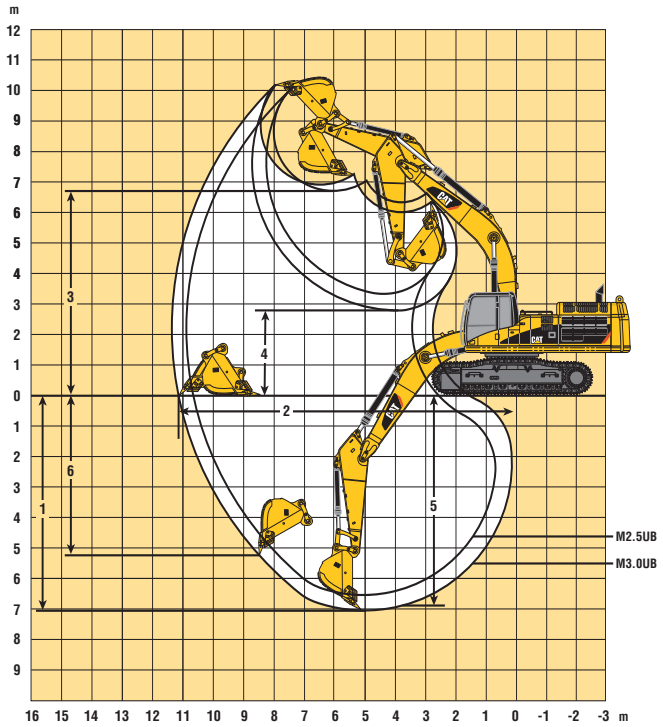
FG Fixed Gauge, VG Variable Gauge, N/A Not Available, * With counterweight, operator and full fuel, ** Without counterweight

Working Ranges



Fixed Gauge Undercarriage
Heavy Duty (HD) Reach boom configuration (6900 mm)

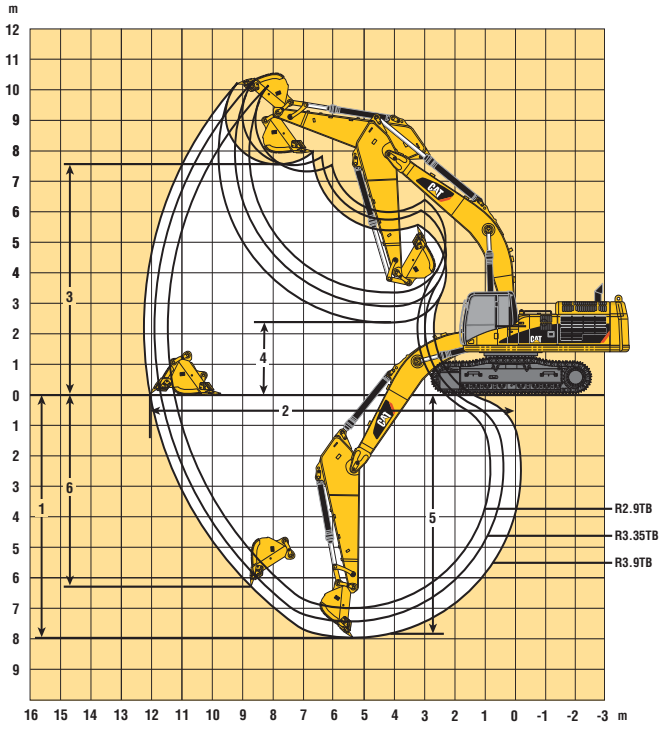
		R2.9TB	R3.35TB	R3.9TB
Stick Length	mm	2900	3350	3900
1 Maximum Digging Depth	mm	7150	7600	8150
2 Maximum Reach at Ground Level	mm	11 240	11 660	12 080
3 Maximum Loading Height	mm	7290	7470	7450
4 Minimum Loading Height	mm	3250	2800	2250
5 Maximum Digging Depth 2440 mm Level Bottom	mm	6990	7460	8020
6 Maximum Vertical Wall Digging Depth	mm	5870	6300	6460
Bucket Capacity	m^3	2.1	1.9	1.6
Bucket digging Force (ISO)	kN	266	266	265
Stick digging Force (ISO)	kN	222	202	185



Fixed Gauge Undercarriage
Mass Excavation (ME) boom configuration (6550 mm)

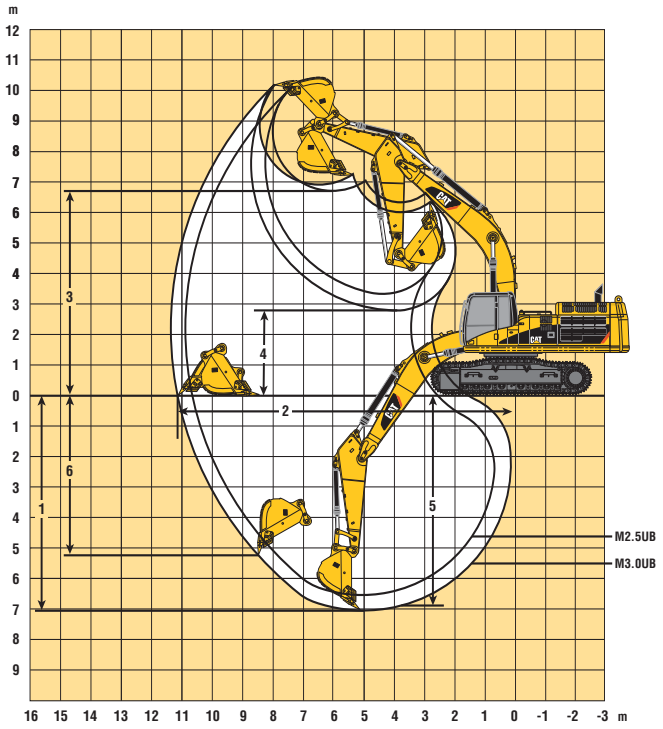
		M2.5UB	M3.0UB
Stick Length	mm	2500	3000
1 Maximum Digging Depth	mm	6720	7220
2 Maximum Reach at Ground Level	mm	10 710	11 180
3 Maximum Loading Height	mm	6620	6810
4 Minimum Loading Height	mm	3160	2660
5 Maximum Digging Depth 2440 mm Level Bottom	mm	6550	7070
6 Maximum Vertical Wall Digging Depth	mm	4920	5380
Bucket Capacity	m^3	2.4	2.2
Bucket digging Force (ISO)	kN	297	297
Stick digging Force (ISO)	kN	240	211

Working Ranges



Variable Gauge Undercarriage
Heavy Duty (HD) Reach boom configuration (6900 mm)

		R2.9TB	R3.35TB	R3.9TB
Stick Length	mm	2900	3350	3900
1 Maximum Digging Depth	mm	7050	7500	8010
2 Maximum Reach at Ground Level	mm	11 260	11 680	12 050
3 Maximum Loading Height	mm	7400	7570	7600
4 Minimum Loading Height	mm	3360	2910	2400
5 Maximum Digging Depth 2440 mm Level Bottom	mm	6890	7350	7870
6 Maximum Vertical Wall Digging Depth	mm	5880	6310	6320
Bucket Capacity	m^3	2.1	2.1	1.9
Bucket digging Force (ISO)	kN	263	263	265
Stick digging Force (ISO)	kN	221	201	185



Variable Gauge Undercarriage
Mass Excavation (ME) boom configuration (6550 mm)

		M2.5UB	M3.0UB
Stick Length	mm	2500	3000
1 Maximum Digging Depth	mm	6570	7070
2 Maximum Reach at Ground Level	mm	10 680	11 150
3 Maximum Loading Height	mm	6770	6960
4 Minimum Loading Height	mm	3300	2800
5 Maximum Digging Depth 2440 mm Level Bottom	mm	6400	6920
6 Maximum Vertical Wall Digging Depth	mm	4780	5290
Bucket Capacity	m^3	2.6	2.4
Bucket digging Force (ISO)	kN	297	295
Stick digging Force (ISO)	kN	240	211

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

* Limited by hydraulic rather than tipping load.
The above loads are in compliance with hydraulic excavator lift capacity ratings standard ISO/DIS 10567, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

Lift Capacities All weights are in kg. Counterweight 9040 kg.

Fixed Gauge
HD Reach Boom
6900 mm

Stick
3900 mm
Shoes
600 mm
Bucket Capacity
1.6 m³
Bucket Weight
1668 kg

	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				
															m
9.0 m													*5100	*5100	8.44
7.5 m									*7000	6550			*4850	*4850	9.55
6.0 m									*7450	6450			*4750	*4750	10.33
4.5 m							*9100	8600	*8050	6200	*6650	4500	*4800	4200	10.81
3.0 m					*13 350	11 550	*10 400	8050	*8750	5850	6900	4350	*5050	3900	11.05
1.5 m					*15 250	10 700	*11 550	7600	8750	5600	6700	4200	*5450	3800	11.06
0 m			*14 700	*14 700	*16 100	10 250	11 450	7250	8500	5350	6600	4100	*6050	3850	10.85
–1.5 m	*9650	*9650	*19 200	16 050	*16 000	10 050	11 250	7050	8400	5250			6650	4100	10.39
–3.0 m	*18 650	*18 650	*19 450	16 250	*15 000	10 050	11 200	7050	8350	5250			7500	4650	9.67
–4.5 m	*19 250	*19 250	*16 350	*16 350	*12 900	10 250	*10 000	7150					*7850	5800	8.62
–6.0 m													*7000	*7000	7.03

Fixed Gauge
HD Reach Boom
6900 mm

Stick
3350 mm
Shoes
600 mm
Bucket Capacity
1.9 m³
Bucket Weight
1829 kg

	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				
															m
9.0 m													*5650	*5650	7.96
7.5 m													*5400	*5400	9.06
6.0 m							*8600	*8600	*7900	6200			*5250	5100	9.88
4.5 m			*16 500	*16 500	*11 850	*11 850	*9650	8350	*8400	6000			*5250	4450	10.39
3.0 m					*14 150	11 200	*10 850	7850	8900	5700			*5500	4100	10.64
1.5 m					*15 700	10 500	11 650	7450	8600	5450			*5900	4000	10.65
0 m					*16 200	10 150	11 350	7150	8400	5300			*6500	4100	10.43
–1.5 m			*20 500	16 250	*15 700	10 050	11 200	7000	8350	5200			7100	4400	9.95
–3.0 m	*19 200	*19 200	*18 050	16 400	*14 300	10 100	11 200	7050	8400	5250			*8100	5100	9.19
–4.5 m			*14 450	*14 450	*11 700	10 350	*8900	7250					*7650	6500	8.07

Fixed Gauge
HD Reach Boom
6900 mm

Stick
2900 mm
Shoes
600 mm
Bucket Capacity
2.0 m³
Bucket Weight
1812 kg

	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				
															m
9.0 m													*6750	*6750	7.41
7.5 m							*8550	*8550					*6750	*6750	8.41
6.0 m							*9100	8650	*8350	6100			*6250	5550	9.43
4.5 m					*12 600	11 900	*10 150	8250	*8750	5900			*6300	4800	9.97
3.0 m					*14 800	10 950	*11 250	7750	8850	5650			*6600	4450	10.23
1.5 m					*16 050	10 350	11 550	7350	8600	5450			6900	4300	10.24
0 m					*16 150	10 100	11 300	7150	8450	5300			7100	4400	10
–1.5 m			*19 450	16 400	*15 350	10 050	11 200	7050	8400	5250			7700	4800	9.5
–3.0 m			*16 750	16 600	*13 650	10 200	*10 750	7150					*8400	5650	8.71
–4.5 m			*12 750	*12 750	*10 600	10 550							*7600	7450	7.5

Fixed Gauge
Mass Boom
6550 mm

Stick
3000 mm
Shoes
600 mm
Bucket Capacity
2.1 m³
Bucket Weight
2202 kg

	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				
															m
9.0 m													*6100	*6100	7.35
7.5 m							*8000	*8000					*6050	*6050	8.35
6.0 m							*8450	8300					*5850	5300	9.25
4.5 m			*16 600	*16 600	*11 600	*11 600	*9400	7800	*8150	5450			*5850	4500	9.79
3.0 m					*13 750	10 550	*10 450	7250	8350	5150			*6100	4050	10.04
1.5 m					*15 100	9800	11 050	6800	8050	4900			*6600	3900	10.04
0 m					*15 300	9450	10 750	6500	7900	4700			6850	4050	9.79
–1.5 m			*19 200	15 650	*14 500	9400	10 650	6400	7850	4650			7500	4450	9.25
–3.0 m	*19 600	*19 600	*16 100	15 850	*12 650	9550	*9700	6500					*7850	5450	8.39
–4.5 m			*11 250	*11 250	*9100	*9100							*6850	*6850	7.08

Fixed Gauge
Mass Boom
6550 mm

Stick
2500 mm
Shoes
600 mm
Bucket Capacity
2.4 m³
Bucket Weight
2326 kg

	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				
															m
9.0 m													*6000	*6000	7.6
7.5 m							*8750	8350					*8000	7550	7.81
6.0 m							*9000	8150					*7700	5850	8.75
4.5 m					*12 400	11 300	*9850	7650					*7750	4950	9.32
3.0 m					*14 400	10 250	*10 850	7150	8300	5100			7350	4450	9.59
1.5 m					*15 350	9650	10 950	6750	8050	4850			7200	4300	9.59
0 m					*15 150	9450	10 750	6500					7450	4450	9.32
–1.5 m			*18 000	15 900	*14 000	9450	10 700	6450					8300	5000	8.75
–3.0 m			*14 600	*14 600	*11 700	9700	*8850	6650					*8000	6200	7.84

Lift Capacities All weights are in kg. Counterweight 9040 kg.

Long Fixed Gauge
HD Reach Boom
6900 mm

Stick
3900 mm
Shoes
600 mm
Bucket Capacity
1.6 m³
Bucket Weight
1668 kg

	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				
															m
9.0 m													*5100	*5100	8.44
7.5 m									*7000	6650			*4850	*4850	9.55
6.0 m									*7450	6550			*4750	*4750	10.33
4.5 m							*9100	8750	*8050	6300	*6650	4600	*4800	4300	10.81
3.0 m					*13 350	11 750	*10 400	8200	*8750	6000	*7700	4450	*5050	4000	11.05
1.5 m					*15 250	10 900	*11 550	7700	*9400	5700	7600	4300	*5450	3850	11.06
0 m			*14 700	*14700	*16 100	10 400	*12 250	7400	9650	5450	7500	4150	*6050	3950	10.85
–1.5 m	*9650	*9650	*19 200	16 350	*16 000	10 250	*12 350	7200	9550	5350			*7000	4200	10.39
–3.0 m	*18 650	*18 650	*19 450	16 500	*15 000	10 250	*11 700	7150	*9150	5350			*8000	4750	9.67
–4.5 m	*19 250	*19 250	*16 350	*16 350	*12 900	10 450	*10 000	7300					*7850	5900	8.62
–6.0 m													*7000	*7000	7.03

Long Fixed Gauge
HD Reach Boom
6900 mm

Stick
3350 mm
Shoes
600 mm
Bucket Capacity
2.0 m³
Bucket Weight
1812 kg

	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				
															m
9.0 m													*5650	*5650	7.96
7.5 m													*5400	*5400	9.06
6.0 m							*8600	*8600	*7900	6350			*5250	5200	9.88
4.5 m			*16 550	*16 550	*11 850	*11 850	*9650	8500	*8400	6100			*5250	4550	10.39
3.0 m					*14 150	11 400	*10 850	8000	*9050	5850			*5500	4200	10.64
1.5 m					*15 700	10 650	*11 850	7550	*9600	5600			*5900	4100	10.65
0 m					*16 200	10 300	*12 350	7300	9600	5400			*6500	4150	10.43
–1.5 m			*20 450	16 500	*15 700	10 200	*12 200	7150	9500	5300			*7500	4500	9.95
–3.0 m	*19 200	*19 200	*18 050	16 700	*14 300	10 300	*11 250	7200	*8500	5400			*8100	5200	9.19
–4.5 m			*14 450	*14 450	*11 750	10 550	*8950	7400					*7650	6650	8.07

Long Fixed Gauge
HD Reach Boom
6900 mm

Stick
2900 mm
Shoes
600 mm
Bucket Capacity
2.2 m³
Bucket Weight
1922 kg

	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				
															m
9.0 m													*6700	*6700	7.41
7.5 m							*8500	*8500					*6700	*6700	8.41
6.0 m							*9050	8750	*8300	6150			*6200	5550	9.43
4.5 m					*12 500	12 000	*10 050	8300	*8700	5950			*6250	4850	9.97
3.0 m					*14 700	11 100	*11 150	7800	*9250	5700			*6500	4450	10.23
1.5 m					*15 950	10 450	*12 000	7450	*9650	5450			*7000	4350	10.24
0 m					*16 050	10 200	*12 300	7200	9500	5300			*7750	4450	10
–1.5 m			*19 400	16 600	*15 250	10 200	*11 950	7100	*9350	5300			*8500	4850	9.5
–3.0 m			*16 650	*16 650	*13 600	10 300	*10 700	7200					*8300	5700	8.71
–4.5 m			*12 650	*12 650	*10 500	*10 500							*7550	7500	7.5

Long Fixed Gauge
Mass Boom
6550 mm

Stick
3000 mm
Shoes
600 mm
Bucket Capacity
2.2 m³
Bucket Weight
2238 kg

	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				
															m
9.0 m													*6050	*6050	7.35
7.5 m							*8000	*8000					*6050	*6050	8.35
6.0 m							*8400	*8400					*5800	5400	9.25
4.5 m			*16 550	*16 550	*11 600	*11 600	*9350	7900	*8100	5550			*5850	4550	9.79
3.0 m					*13 750	10 700	*10 400	7400	*8600	5250			*6100	4150	10.04
1.5 m					*15 050	9950	*11 250	6900	*9000	4950			*6550	4000	10.04
0 m					*15 300	9600	*11 550	6650	9000	4800			*7300	4100	9.79
–1.5 m			*19 150	15 900	*14 500	9550	*11 150	6550	*8500	4750			*8050	4550	9.25
–3.0 m	*19 600	*19 600	*16 100	*16 100	*12 650	9700	*9700	6650					*7800	5500	8.39
–4.5 m			*11 200	*11 200	*9100	*9100							*6800	*6800	7.08

Long Fixed Gauge
Mass Boom
6550 mm

Stick
2500 mm
Shoes
600 mm
Bucket Capacity
2.4 m³
Bucket Weight
2326 kg

	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				
															m
9.0 m													*6000	*6000	7.6
7.5 m							*8750	8500					*8000	7700	7.81
6.0 m							*9000	8250					*7700	6000	8.75
4.5 m					*12 400	11 450	*9850	7750					*7750	5050	9.32
3.0 m					*14 400	10 450	*10 850	7250	*8950	5200			*8100	4550	9.59
1.5 m					*15 350	9850	*11 500	6850	*9200	4950			8250	4400	9.59
0 m					*15 150	9650	*11 600	6650					*8550	4550	9.32
–1.5 m			*18 000	16 150	*14 000	9650	*10 900	6600					*8500	5100	8.75
–3.0 m			*14 600	*14 600	*11 700	9850	*8850	6800					*8000	6350	7.84

Long Variable Gauge
HD Reach Boom
6900 mm

Stick
3900 mm
Shoes
600 mm
Bucket Capacity
1.9 m³
Bucket Weight
1829 kg

	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				
															m
9.0 m													*5000	*5000	8.55
7.5 m									*7000	*7000			*4700	*4700	9.65
6.0 m									*7300	*7300			*4650	*4650	10.39
4.5 m					*10 950	*10 950	*9000	*9000	*7850	7500	*6750	5550	*4700	*4700	10.85
3.0 m					*13 300	*13 300	*10 250	9750	*8550	7150	*7450	5400	*4950	4850	11.06
1.5 m					*15 050	13 000	*11 350	9250	*9150	6850	*7750	5200	*5400	4750	11.05
0 m			*15 100	*15 100	*15 800	12 500	*11 950	8900	*9550	6650	*7800	5100	*6000	4850	10.81
–1.5 m	*10 400	*10 400	*19 100	*19 100	*15 550	12 300	*11 950	8700	*9450	6500			*7000	5200	10.33
–3.0 m	*19 550	*19 550	*18 700	*18 700	*14 450	12 350	*11 250	8700	*8700	6500			*7700	5900	9.58
–4.5 m	*19 050	*19 050	*15 450	*15 450	*12 250	*12 250	*9400	8850					*7500	7350	8.48
–6.0 m													*6500	*6500	6.82

Long Variable Gauge
HD Reach Boom
6900 mm

Stick
3350 mm
Shoes
600 mm
Bucket Capacity
2.1 m³
Bucket Weight
2345 kg

	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				
															m
9.0 m													*5300	*5300	8.07
7.5 m									*6150	*6150			*5000	*5000	9.16
6.0 m							*8200	*8200	*7450	7300			*4900	*4900	9.95
4.5 m			*16 600	*16 600	*11 550	*11 550	*9250	*9250	*7950	7050			*4950	*4950	10.43
3.0 m					*13 750	13 250	*10 400	9300	*8550	6750			*5150	4850	10.65
1.5 m					*15 200	12 550	*11 350	8850	*9050	6500			*5600	4750	10.64
0 m			*10 450	*10 450	*15 500	12 200	*11 750	8550	*9250	6300			*6250	4900	10.39
–1.5 m			*19 550	*19 550	*14 950	12 100	*11 500	8400	*8950	6250			*7300	5350	9.88
–3.0 m	*19 950	*19 950	*17 000	*17 000	*13 450	12 200	*10 450	8450					*7500	6200	9.1
–4.5 m			*13 250	*13 250	*10 700	*10 700	*7900	*7900					*6950	*6950	7.92

Long Variable Gauge
HD Reach Boom
6900 mm

Stick
2900 mm
Shoes
600 mm
Bucket Capacity
2.1 m³
Bucket Weight
2345 kg

	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				
															m
9.0 m													*6400	*6400	7.54
7.5 m							*8100	*8100					*6400	*6400	8.51
6.0 m							*8700	*8700	*7850	7200			*5950	*5950	9.5
4.5 m					*12 300	*12 300	*9700	9700	*8300	6950			*6000	5650	10.01
3.0 m					*14 350	13 000	*10 750	9150	*8800	6700			*6300	5250	10.24
1.5 m					*15 450	12 400	*11 550	8750	*9200	6450			*6800	5150	10.22
0 m					*15 450	12 150	*11 750	8500	*9300	6300			*7600	5300	9.96
–1.5 m			*18 500	*18500	*14 550	12 150	*11 300	8450	*8750	6250			*7950	5800	9.43
–3.0 m			*15 600	*15 600	*12 750	12 300	*9950	8550					*7750	6900	8.61
–4.5 m			*11 500	*11 500	*9500	*9500							*6850	*6850	7.34

Long Variable Gauge
Mass Boom
6550 mm

Stick
3000 mm
Shoes
600 mm
Bucket Capacity
2.4 m³
Bucket Weight
2807 kg

	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				
															m
9.0 m													*5800	*5800	7.36
7.5 m							*7500	*7500					*5750	*5750	8.35
6.0 m							*8050	*8050	*7300	6700			*5250	*5250	9.39
4.5 m					*11 450	*11 450	*9000	*9000	*7700	6450			*5350	5300	9.87
3.0 m					*13 500	12 550	*10 100	8600	*8200	6150			*5600	4850	10.09
1.5 m					*14 650	11 850	*10 850	8200	*8550	5900			*6100	4750	10.05
0 m					*14 700	11 550	*11 050	7900	*8550	5700			*6950	4950	9.74
–1.5 m			*18 500	*18 500	*13 750	11 500	*10 500	7850					*7500	5550	9.16
–3.0 m	*18 750	*18 750	*15 250	*15 250	*11 700	11 700	*8800	8000					*7200	6850	8.22
–4.5 m					*7700	*7700							*5950	*5950	6.81

Long Variable Gauge
Mass Boom
6550 mm

Stick
2500 mm
Shoes
600 mm
Bucket Capacity
2.6 m³
Bucket Weight
2398 kg

	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				
															m
9.0 m													*7350	*7350	6.87
7.5 m							*8700	*8700					*8000	*8000	7.9
6.0 m					*10 600	*10 600	*9050	*9050					*7650	7250	8.82
4.5 m					*12 600	*12 600	*9900	9450					*7750	6250	9.36
3.0 m					*14 500	12 750	*10 850	8950	*8900	6500			*8100	5750	9.6
1.5 m					*15 350	12 150	*11 500	8550	*9150	6250			*8450	5650	9.57
0 m					*15 050	11 950	*11 500	8350					*8500	5850	9.27
–1.5 m			*17 700	*17 700	*13 750	12 000	*10 700	8300					*8400	6600	8.67
–3.0 m			*14 100	*14 100	*11 350	*11 350							*7850	*7850	7.72

Standard Equipment

Standard equipment may vary. Consult your Caterpillar dealer for specifics.

Electrical

Alternator – 75 amp
Cat batteries
Lights, cab interior
Lights, cab mounted
Signal/warning horn
Starting, cold weather (two additional batteries)
Travel alarm

Engine

Auto Lube ready
Automatic engine speed control
Automatic swing parking brake
Auxiliary hydraulic valve
Cat® C13 with ACERT™ Technology
Fuel Filter
Fine swing control
High ambient cooling, 52°C capability
Muffler
S•O•S℠ sampling for Engine and Hydraulic systems
Two speed auto-shift travel
Variable speed cooling fan
Water level indicator
Water separator in fuel line

Operator Station

Adjustable armrest
Air conditioner, with auto climate control and defroster
Ashtray with lighter
Beverage/cup holder
Bolt-on FOGS capability
Coat hook
Electrical provision for seat heater
Floor mat
Instrument panel and gauges
Joystick, Thumb wheel, Four button
Literature compartment
Mirrors (Frame-right, Cab-left)
Neutral lever for all controls
Positive filtered ventilation
Rear window, emergency exit
Seat belt, retractable, 51 mm width
Sliding upper door window
Skylight (polycarbonate), openable
Storage compartment suitable for a lunch box, with cover
Sunshade for windshield and skylight
Travel control pedals with removable hand levers
Windshield wipers and washers

Undercarriage

Guards
- Heavy Duty Track Motor Guards
- Swivel Guard

Track
- Grease lubricated track
- Hydraulic track adjusters
- Idler and center section track guiding guards
- Track type sealed undercarriage

Other Standard Equipment

Caterpillar one key security system
Counterweight 9040 kg with lifting hook

Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for specifics.

Engine

Precleaner
Starting kit, cold weather, –32°C
Terminal, jump start

Front Linkage

Booms
  HD Reach 6900 mm
  Mass excavation 6550 mm
Buckets (see pages 11, 12)
  Bucket linkage
    TB family for TB sticks
    UB family for UB sticks
  Bucket tips and sidecutters
  Edge protectors
Sticks
  R2.9TB Reach
  R3.35TB Reach
  R3.9TB Reach
  M2.5UB Mass
  M3.0UB Mass

Guards

Falling Object, for cab
Front Windshield
Track guiding, full length

Hydraulics

Auxiliary boom lines
Auxiliary stick lines
Control, single action
Circuit, cooling
Control, combined
Control, medium pressure
Pedal, tool modulation
Quick coupler universal circuit
Tool selection (via monitor 10 tools)

Operator Station

Joysticks
  Four button joystick for standard machine or single action auxiliary control
  Thumb wheel modulation joystick for use with combined auxiliary control
Radio, AM/FM radio mounted in right hand console
Radio ready mounting at rear location including 24V to 12V converter
Seat
  Adjustable high-back seat with mechanical suspension
Straight travel pedal
Sun Screen

Undercarriage

Fixed Gauge
Idler, Cast
Track, GLT4
  600 mm double grouser shoes
  750 mm triple grouser shoes
  900 mm, triple grouser shoes
Track, PPR2
  600 mm double grouser shoes
  750 mm triple grouser shoes
Variable Gauge

Other Optional Equipment

Converters, 7 amp-12V (one or two)
Product Link
Rear View Camera
Security System, Machine (MSS)
WAVS Camera ready
Windshield
  1-piece laminated

345D/345D L Hydraulic Excavator

HEHH3723 (05/2008) hr

CATERPILLAR®