

6.55 m Mass Boom, 3.0 m Stick, and 600 mm Track	
Operating Weight	48 960 kg
Cat [®] 3176C ATAAC Diesel Engine	
Gross Power	257 kW/345 hp
Flywheel Power	239 kW/321 hp
Travel Speed (maximum)	4.4 km/h

345B L Series II Hydraulic Excavator

High performance and rugged durability combine to maximize your productivity.

Operator Station

Roomy, quiet, automatic climate controlled cab has excellent sightlines to the work area to help keep operator fatigue low and production up throughout the entire shift. **pg. 4-5**

Maestro Electronic Control System and Advanced Diesel Engine Management (ADEM) II

Maximizes fuel efficiency and performance by maintaining the optimum balance between engine speed and hydraulic demand. **pg. 6**

Undercarriage

The long variable gauge undercarriage has track roller frames which are bolted to the carbody and can be retracted for shipping. This undercarriage is stable, durable and has low maintenance. **pg. 8**

Structures

Caterpillar design and manufacturing techniques assure outstanding durability and service life from these important

 components. Heavy duty upper frame included in standard arrangement.
pg. 9

Engine

✓ Increased horsepower for more productivity and faster cycle times. The 345B L Series II is powered by the Cat 3176C ATAAC engine which complies with worldwide emissions requirements. This engine includes several design features which enhance performance, efficiency, reliability and durability. pg. 10

Hydraulics

Larger displacement main pumps for increased oil flow and faster cycle times. High pressure hydraulics increase break-out and crowd forces to maximize bucket loads and lift capability while decreasing cycle times. The Cat Maestro Electronic Control system allows smooth, efficient operation. Optional auxiliary hydraulic flow control offers 4 programmable settings to precisely match hydraulic tool requirements. pg. 7

Outstanding performance.

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

Environmentally Responsible Design

Quieter operation, lower engine emissions, less fluid disposal and cleaner service help you meet or exceed worldwide regulations and protect the environment. **pg. 11**

SmartBoom™

- More productive
- Faster cycle times for truck loading and rock scraping
- Included in standard arrangement
 - Maintains optimum hammering frequency for effective, steady productivity. pg. 13

Heavy-duty Arrangements

Heavy-duty purpose designed and built machines are offered with a variety of special booms and sticks for Material Handling, Demolition, Ditch cleaning and drainage. **pg. 14**

Systems Match

The 345B L Series II is designed for matched performance with Cat articulated trucks. Five to six passes under two minutes, matched to the Cat 735 gives you maximum systems production. **pg. 12**

Booms, Sticks and Work Tools

345**B** LME

A variety of booms, sticks and work tools are available. The reach boom has a larger digging envelope while the mass boom allows larger bucket use with greater digging forces. All booms and sticks are stress relieved. Special applications front linkages are available for a variety of custom applications. **pg. 14**

Buckets

A wide variety of bucket types, aggressive bucket designs, and larger capacity bucket options take advantage of the 345B's powerful digging forces for improved productivity. **pg. 15**

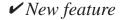
Serviceability

Fast, easy service with advanced filtration, filter access and electronic diagnostics for increased productivity. **pg. 16**

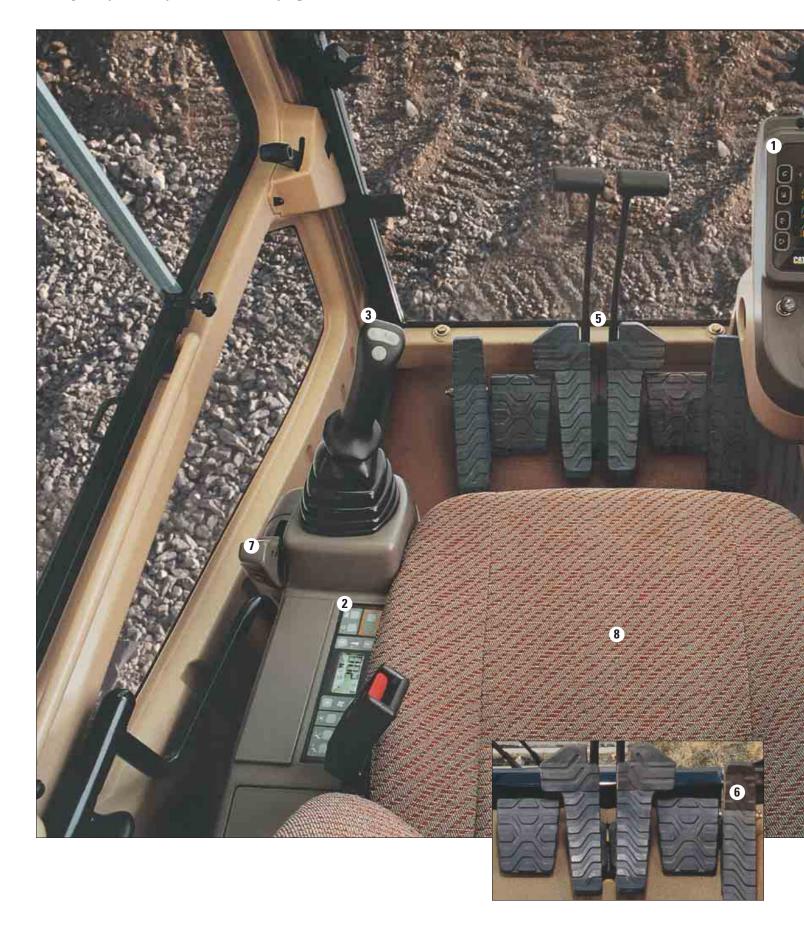
Complete Customer Support

Turns your investment into profit, from purchase to resale through:

- Equipment Management Services for optimum profit
- Maintenance Services for equipment protection
- Predictive Services for optimum machine availability
- Reconditioning Services for lower repair cost
- Your Caterpillar dealer parts support for satisfaction and peace of mind



Operator Station *Designed for comfort and ease of operation.*





This operator work station is quiet with ergonomic control placement and convenient adjustments, low lever and pedal effort, ergonomic seat design, and highly efficient ventilation. The result is a cab that puts the operator firmly and comfortably in control to enhance productivity.

Excellent viewing area through wide windows. A large skylight provides upward visibility. The upper and lower front windows include top and bottom mounted wipers. The front window is also flat for easy service replacement. The upper left side door window can slide open. The lower window provides visibility to the tracks and the ground next to the machine.

Greater control convenience. Each of the controls is positioned within easy reach of the operator.

The fabricated, roll formed cab shell is mounted to the swing frame using butyl rubber mounts for reduced sound and vibration.

- 1 Caterpillar Maestro Electronic Control System panel includes fuel level, hydraulic oil and engine coolant temperature gauges, machine condition indicators and operator controls in a single console for ease of use (refer to Maestro Electronic Control System on page 6).
- **2** Automatic climate control maintains constant temperature in the cab in both hot and cold weather conditions. The operator can switch to standard air conditioning system with fresh or recirculated air.

- **3 Joysticks control all implements** and swing functions with minimal effort. All electrical provisions are standard for easy retro-fit of auxiliary circuits. This includes two switches on each joystick. The integrated joystick consoles adjust to operator preference. Joystick consoles are suspended as part of the seat arrangement. Height can be adjusted independently of the seat.
- **4 Dial throttle** with ten settings for simple, precise, repeatable engine speed adjustment.
- **5 Hand or foot actuated travel controls** allow the operator to move the excavator while working the boom, stick and bucket. Hand levers are easily removable.
- **6 Optional straight travel pedal** provides forward or reverse straight line travel. Steering adjustments can be made by using right or left travel pedals in combination with the straight travel pedal.
- **7 Hydraulic activation control lever** deactivates hydraulic functions and helps prevent operation when the operator exits the cab.
- 8 The fully adjustable suspension seat includes an impressive range of comfort features. In addition to fore/aft height and weight adjustments, it also offers lumbar, wide arm support/rests and a retractable seat belt.

Maestro Electronic Control System

Manages the engine and hydraulics for maximum performance.

Maestro Electronic Power Unit Control System

controls state-of-the-art hydraulics and engine performance for maximized productivity, increased fuel efficiency, and lower emission and sound levels.

Electronic Engine Underspeed Control

balances engine and hydraulic output for maximum performance and fuel efficiency.

- It adjusts hydraulic pump output to maintain engine rpm in optimum range.
- 100 percent of engine power is available for the hydraulic system.

Operator control panel allows optimal performance in all applications. The high contrast back-lit liquid crystal display includes:

- **1 Power Mode Selector** changes engine power and speed at the touch of a switch.
 - **Economy Mode** sets hydraulic power at 90 percent and is used during normal and utility operations to reduce fuel consumption and sound levels.
 - **Power Up Mode** sets hydraulic power at 100 percent for high production truck loading, trenching, and high speed travel.

2 Automatic Engine Speed Control (AEC)

reduces engine speed to 1300 rpm during light-load or no-load applications when activated. A switch on the right joystick control lever engages the low idle function reducing engine speed to 950 rpm. Press again to return to previous setting (page 10).

Work Mode Selector matches hydraulic characteristics to the application.

3 Boom Priority Mode gives priority flow to the boom for deep trenching and same level truck loading, where there is significant boom movement relative to swing.



- **4 Swing Priority Mode** gives swing flow priority and is especially suited for crowding the sidewall while digging and extreme swing angle loading.
- **5 Fine Control Mode** optimizes hydraulic pump output for applications like slope finishing or precision lifting which require smoother control.
- **6 User Mode** allows the operator to choose from two submodes:
 - Tamping Mode adjusts boom speed and force to keep machine shocks at a minimum when compacting material with the bucket.
 - **Customer Mode** allows a set of hydraulic performance attributes to be selected, recorded, and recalled for later use.

Machine monitoring system uses a progression of indicators, action lamps, and alarms to inform the operator of machine conditions.

Service Level Mode delivers fast, detailed diagnosis of machine conditions improving uptime (refer to Serviceability on page 16).

Diagnostic functions primarily intended for service technicians provide a swift electronic scan of the Maestro Electronic Control System from troubleshooting to testing. Rapid diagnosis helps maximize uptime to reduce operating costs.

Hydraulics

Caterpillar hydraulics deliver power and control to keep material moving at high volume.



Dramatic control responsiveness

aids operation and improves cycle time.

- Control movements are matched to hydraulic action for improved operator performance.
- Swing dampening restrains drift and improves positioning during truck loading and lifting applications for reduced operator fatigue.

Full-time high hydraulic relief pressure

provide excellent boom, stick, and bucket forces for better productivity, higher lift capacity and a wider range of workable material.

Hydraulic cross-sensing system

improves productivity with fast implement speeds and quick, smooth pivot turns.

- 100 percent of hydraulic horsepower is deliverable to implements.
- Full power to a single motor for strong, fast turns. Balanced power to both motors for straight travel.

Boom regeneration circuit diverts oil within the boom cylinder circuit to lower the boom. This allows pumps to have more pressure and flow available for other circuits.

Stick regeneration circuit also diverts oil within the stick cylinder circuit to allow fast stick in speed during multiple function operation.

Pump flow decreases when controls are in neutral for reduced fuel consumption and sound.

Auxiliary hydraulic valve is standard on the 345B L Series II for use with optional hydraulic circuits.

Auxiliary hydraulic flow control

system option provides up to four programmable flow presets to precisely match hydraulic tool requirements (i.e., hammers, shears, processors, brush cutters, etc.).

Hydraulic cylinder snubbers at rod-end of boom cylinders and both ends of stick cylinder cushion shocks, reduce sound and increase cylinder life. **Cat's XT hose and reusable couplings** meet the critical flexibility and strength demands of the 345B L Series II.

- O-ring face seal couplings provide positive sealing for reliable, leak-free connections.
- Hydraulic tank located close to pumps for increased hydraulic efficiency.
- Optional shut-off valve for the hydraulic tank.

Caterpillar Hydraulic oil offers maximum protection against rusting, mechanical and corrosive wear in all hydraulic systems. The machine is compatible with factory fill Cat HEES hydraulic bio-oil for ecologically sensitive applications.

Scheduled Oil Sampling allows for scheduled replacement or repair of components before the machine is stopped because of a major breakdown.

Remanufactured components such as cylinders, pumps, as well as other hydraulic repair options offer improved machine availability and considerably reduced repair costs.

Undercarriage

Durable undercarriage absorbs stresses and provides excellent stability.



Variable Gauge (VG) heavy-duty, H-shaped long undercarriage provides ease of transport and a stable platform when working on a variety of sites. With 600 mm standard track shoes, track roller frames can be retracted for less than three meter transport width. A variety of standard and heavy duty track shoes are available for various underfoot conditions.

Precision robotic welding ensures a quality weld every time. These welds increase rigidity, reduce internal stresses and enhance durability for the chassis and track roller frames.

Heavy-duty, H-shaped chassis design. Cat undercarriage components are purposely oversized to offer heavy-duty performance and durability.

Strutted track links are sealed for long life. Track rollers, carrier rollers and idlers are also sealed and lubricated for excellent service life.

Smooth autoshifting two-speed travel motors offer top travel speeds and plenty of pull on slopes or turns.

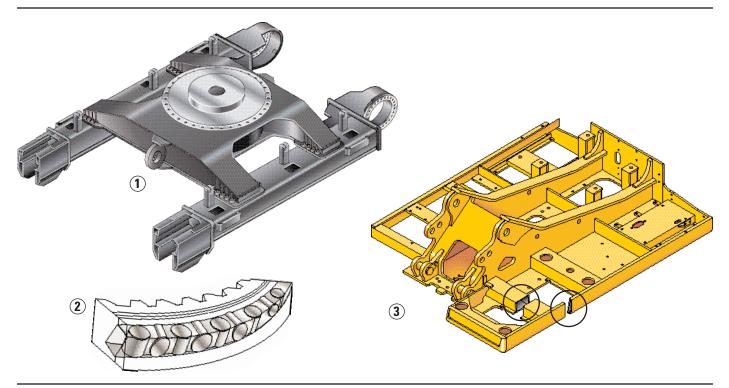
Standard idler guards and center track guides maintain track alignment. Optional sprocket guiding guards or full length track guiding guards are available for additional protection on steep side slopes.

Bolt-on Step allows for ergonomic foot position in accordance with the EC standard for various track widths and for easy replacement.

Your Cat dealer's Custom Track Service maximizes undercarriage wear life, reduces unscheduled downtime and saves money.

Structures

The 345B L Series II structural components are the backbone of the machine's durability.



345B L Series II carbody is a heavy-duty H-shaped design. Cat undercarriage components are purposely oversized to offer true heavy duty performance and durability, even in the hardest working conditions.

- **1 Advanced carbody design** stands up in the toughest applications.
 - Modified H-shaped, box-section carbody provides excellent resistance to torsional bending.
 - Variable gauge undercarriage has track roller frames which are bolted to the carbody and can be retracted for shipping.
 - Robot-welded track roller frames with fabricated U-section design.
 - Robot welding ensures consistent, high-quality welds throughout the manufacturing process.
- **2 Swing bearing.** Large diameter cross roller bearing offers more contact area than ball bearing design for superior support.

Robot-welded track roller frames

are press-formed, U-shaped units to deliver exceptional strength and service life.

3 Rugged main frame is designed for maximum durability and efficient use of materials.

- Heavy Duty Reinforced main frame delivers superior level of durability in rugged applications such as demolition, material handling, quarries, riverbeds, and alpine construction work.
- Robot welding for consistent, high-quality welds.
- Outer frame utilizes curved side rails, which are die-formed, for excellent uniformity and strength throughout the length.
- Box section channels improve upper frame rigidity under the cab.
- Boom tower and one piece main rails are constructed of solid, high-tensile strength steel plates.
- New boom foot design transfers load more efficiently with less stress in critical areas.
- Sheet metal supporting structure is strengthened by integrating the mounting into the upper frame structure.
- Reinforced lift cylinder and swing drive mounts increase structural durability in rock and quarry applications.

Caterpillar excavator booms and sticks are built for performance and long

service life.

- All standard application booms and sticks are stress relieved to maximize material strength and durability, while minimizing weight for improved performance and service life.
- Castings and forgings are used at high stress areas such as boom nose, boom foot, boom cylinder and stick foot.
- Large, welded, box-section structures with thick, multi-plate fabrications are also used in high-stress areas.
- Construction allows structures to flex and dissipate stresses.

Cat 3176C ATAAC Engine

Built for power, reliability, economy and low emissions.



Cat 3176C ATAAC (air to air aftercooled) engine. The electronically controlled 3176C engine features the Advanced Diesel Engine Management (ADEM II) system to optimize fuel injection volume and timing for improved fuel efficiency and engine performance. The 3176C engine uses a linered cast iron block, cast iron cylinder head, steel forged crankshaft, carbonized steel camshaft and an electronically controlled, manually-actuated unit injector fuel system to provide unmatched reliability and enhanced durability.

Advanced Diesel Engine Module (ADEM II) fuel system controls the engine for optimal fuel injection, increased fuel efficiency, longer component life.

Turbocharged and aftercooled to increase engine power by burning fuel with greater efficiency.

Two-piece piston design provides excellent strength with the steel crown and aluminum skirt for reduced weight. **Engine oil S•O•S sampling valve** is provided on the engine oil filter head.

Caterpillar oils used in the drive train maximize equipment performance and service life as a result of advancements in diesel engine lube technology.

Factory remanufactured parts.

A large choice of factory remanufactured parts and dealer proposed repair options increase machine availability and reduce total repair cost in case you need it.

Easy maintenance, is designed into the machine

- built-in pressure taps reduce troubleshooting time.
- good access to lubrication points and fluid level checks increases operator safety and ease of maintenance.

Meets all current known proposed worldwide emissions standards including the new 97/68/EC.

Automatic Engine Speed Control (AEC) with convenient one-touch command. Three-stage control maximizes fuel

efficiency and reduces sound levels.When monitor switch is placed in the

- "ON" mode, if a no-load condition or light-load condition continues for more than three seconds, the automatic engine control reduces engine speed from high idle to 1300 rpm.
- When monitor switch is placed in the "OFF" mode, if a no-load condition or light-load condition continues for more than three seconds, the automatic engine control reduces engine speed by 100 rpm.
- At any time, the operator can activate a switch on the top of the right joystick control lever to reduce the engine speed to 950 rpm. This feature, referred to as one-touch idle, can be used both to conserve fuel and to reduce engine sound levels. Activate switch again to return to previous level.

Environmentally Responsible Design

Caterpillar machines not only help you build a better world, they help maintain and preserve the fragile environment.



More performance. The 345B L Series II is designed to provide more performance than ever before in a machine this size. That means more work done in a day, less fuel consumption and minimal impact on our environment.

Low exhaust emissions. The Cat 3176C ATAAC engine used in the 345B L Series II is a low emission engine designed to meet the world's toughest emission regulations. Refinements to the turbocharger, cylinder head and pistons improve fuel combustion so there are less emissions. Plus the Advanced Diesel Engine Module (ADEM II) fuel system offers optimal fuel injection control to burn fuel efficiently and cleanly. **Quiet operation.** The cooling fan, traditionally a major contributor to noise, is now hydraulically driven. The result is cool, quiet operation with less disturbance to the environment. The exterior sound power level is 109 dB(A) measured according to the dynamic test procedures and conditions specified in ISO 6395. As manufactured by Caterpillar, this machine's exterior sound power level meets the criteria specified in the European Directives noted on the certificate of conformity and the accompanying labeling.

Ozone protection. To help protect the earth's ozone layer, the 345B's air conditioning unit uses only R-134a refrigerant which does not contain harmful chlorofluorocarbons (CFC's).

Fewer leaks and spills. Engine oil and encapsulated hydraulic oil filters are positioned vertically and are easy to reach to minimize spillage. Lubricant fillers and drains are also designed to minimize spills. Cat o-ring face seals, XT hose and hydraulic cylinders are all designed to help prevent fluid leaks that can rob machine performance and cause harm to the environment. Additionally, the 345B L Series II is compatible with Cat HEES hydraulic bio-oil for ecologically sensitive applications. Finally, the new Cat Extended Life Coolant/Antifreeze provides extended service (up to 6000 h) so there is less need for fluid disposal.

Rebuildable components. Many of the major components used in the 345B L Series II are designed for rebuildability. That means you have high-quality, certified rebuilt replacement parts available to you at a fraction of the cost of new.

Systems Match

The 345B L Series II is designed for matched performance with Cat Articulated Trucks



Optimum pass match design. Five to six passes under two minutes, matched to the Cat 735, gives you maximum systems production at the lowest cost per ton of material moved.

Wide range of front end attachments

provides choices for systems matching to a range of Cat articulated trucks from the 730 to the 740. This adds flexibility for a wide range of job conditions in a variety of applications such as construction, mining or quarry. Additionally, systems match offers versatility in job set-up whether top loading or same level truck loading.

- Mass excavation front linkages with larger U-family buckets offer maximum matched systems productivity for mass earthmoving and allow easy loading into the truck body.
- Reach front linkages with T-family buckets give you maximum flexibility for trenching or excavation without sacrificing truck body match when additional reach is necessary.
- The 345B L Series II is matched to reach into the 735 truck body even when top loading over the rear. This means excellent load placement and distribution into the truck body, whether you are moving dirt for general construction or loading rock in a quarry.

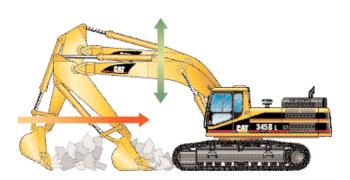
Maestro Electronic Control Systems settings. The various Maestro settings allows you to optimize the Excavator to the job layout. Boom priority enhances productivity in short swing angles while swing priority maximizes production for longer swing angles.

Matched design commonality.

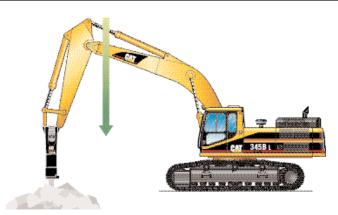
When you operate a Caterpillar loading system, you also have the advantage of similar Caterpillar parts, components, service items as well as Caterpillar "5-Star Customer Service" which leads to maximum systems availability.

SmartBoom[™]

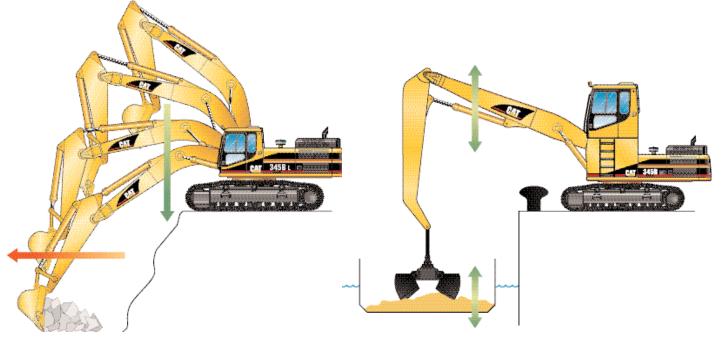
Reduces stress and vibrations transmitted to the machine and provides a more comfortable environment ensuring less operator fatigue.



Scraping rock and finishing work is easy and fast. SmartBoom[™] simplifies the task and allows the operator to fully concentrate on stick and bucket, while boom freely goes up and down without using pump flow.



Hammer work has never been this productive and operator-friendly. The front parts automatically follow the hammer while penetrating the rock. Blank shots or excessive force on the hammer are avoided resulting in longer life for the hammer and the machine. Similar advantages are applicable when using vibratory plates.

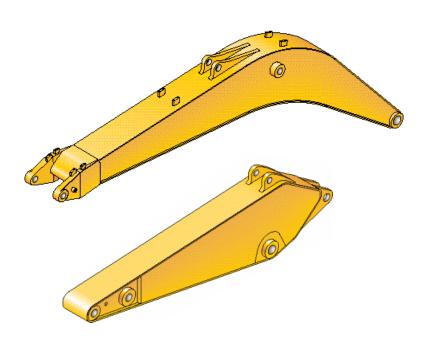


Loading trucks from a bench is more productive and more fuel efficient as the return cycle is reduced while the boom down function does not require pump flow.

Material handling is more efficient and productive due to faster return cycles. Unloading barges is easier because SmartBoom[™] avoids excessive force being put on the floor of the barge allowing the operator to fully concentrate on production.

Booms, Sticks and Work Tools

The 345B L Series II is designed with the flexibility to help deliver higher production and efficiency.





Select the right combination for the job with your Cat dealer to help ensure top production from the start.

All Caterpillar booms and sticks have internal baffles which give the structures extra strength and durability to better withstand torsional loads.

The choice of two booms and four sticks, plus a wide selection of buckets and attachments, means the 345B offers a large combination of reach and digging forces for optimum versatility.

The Mass Excavation (M) boom 6.55 m

maximizes excavating power and productivity and features two stick choices. Also offers added durability for more severe applications.

- The M 3.0 m stick provides an excellent digging envelope with large bucket capacity and high force levels.
- The M 2.5 m stick is intended for mass earth moving applications. Buckets are very large with high force levels.

The Reach boom (R) 6.9 m features an optimum design that maximizes digging envelopes with two stick choices.

- The R 3.35 m stick uses high capacity buckets and is best suited to trenching, excavation and general construction applications.
- The R 2.9 m stick has a tighter working envelope but uses the largest buckets of the reach stick family.

Caterpillar excavator booms and sticks are built for performance and long service life.

- Castings and forgings are used at high stress areas such as boom nose, boom foot, boom cylinder and stick foot.
- Large, welded, box-section structures with thick, multi-plate fabrications in high-stress areas.
- Construction allows structures to flex and dissipate stresses.
- All booms and sticks are stress relieved to maximize fatigue life and durability, while minimizing weight for improved performance.

Heavy-duty purpose designed and built

machines are offered with a variety of special booms and sticks for

- Material Handling
- Demolition
- Long Reach Excavation

Variety of work tools. Choose from a variety of work tools such as hammers, compactors, grapples or crushers. Ask your Cat dealer for information on attachments or special configurations.

Multi-Processor. The Caterpillar Multi-Processors can be equipped with different jaw types depending on your need.

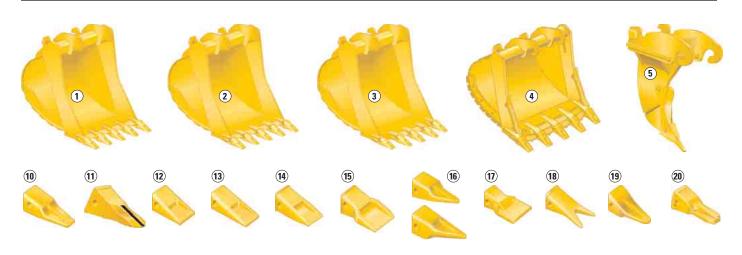
Multi-Grapple. The multi-grapple with unlimited left and right rotation is the ideal tool for stripping, sorting, handling and loading.

Orange Peel Grapple. Specifically designed for handling scrap and rock in recycling and transfer applications.

Hammer. With their wide variety of tools, Cat hammers provide the perfect match for maximum life, efficiency, and productivity.

Buckets and Quick Couplers

A wide variety of buckets help optimize machine performance. Purpose designed and built to Caterpillar's high durability standards.



- **1 Excavation Bucket.** Digs and loads soft to medium materials such as clay and earth. Features weld on tip adapters, hardened cutting edge and side bars.
- 2 Extreme Excavation Bucket. Digs and loads compact/abrasive materials like earth/rock, sand/clay, sand/gravel, coal, chalk and low abrasion ores. Features abrasion resistant steel for all wear parts.
- 3 Rock Bucket. Digs and loads mixed earth/ rock soils containing high percentage of rock or other abrasive materials. Features V-spade cutting edge, thicker base and wear surfaces.
- **4 Heavy Duty Rock Bucket.** For aggressive bucket loading in highly abrasive applications such as shot rock and granite.
- **5 Ripper.** Ripper tooth breaks up hard soil during ground preparation. This work tool is optimal for use in quarries to loosen compact rock soils before loading into dump truck or crusher. It is also perfectly suited for pipeline and trenching work. Optionally available with shank protector.

Tip selection

- **10** Penetration
- **11** Penetration Long Life
- 12 Short
- 13 Long
- 14 Heavy Duty Long
- **15** Heavy Duty Abrasion
- 16 Sharp / Corner Sharp
- 17 Wide
- **18** Twin Sharp
- 19 Long Sharp
- **20** Penetration Plus

Quick Couplers. Caterpillar Quick Couplers enable the operator to simply release one work tool and pick up another. Your hydraulic excavator becomes highly versatile. To suit your business and application needs, Caterpillar offers two different types of Quick Couplers.

CW-Series Dedicated Quick Coupler. The dedicated CW-Series quick coupler enables a quick tool exchange while maintaining top machine performance. It is available in a hydraulic and spindle version.

- The hydraulic version is available in a standard and a narrow version and makes it very easy for the operator to switch tools without having to leave the cab.
- The spindle version is a user-friendly mechanical version that can later be easily converted into the hydraulic version if required. The spindle version is also available in the narrow and standard version.



• A lifting hook is added to the dedicated Quick Coupler for maximum lift capacity.

Pin Grabber Plus Quick Coupler. This hydraulically controlled Pin Grabber Plus quick coupler makes changing buckets and other popular work tools simple and fast. The Pin Grabber Plus coupler mounts to the end of the stick and allows buckets, clamshells and other work tools to be used with little or no modification.

- Each model fully adjusts to different pin spreads of various tools regardless of manufacturer – it is the only coupler that accommodates a wide range of work tool makes and models.
- Pin-on assembly makes coupler installation and removal fast and easy.
- Coupler retains the same bucket opening and closing angles.
- Buckets can be reversed for greater flexibility when working around and under obstructions.
- Integrated lift eye.

A factory installed Quick Coupler hydraulic circuit avoids difficult and costly retrofitting of Quick Coupler hydraulics and allows usage of the most frequently used Quick Coupler systems. Ask your Cat dealer for more specific information.

Serviceability

Simplified service and maintenance features save time and money.

Fast, easy maintenance improves uptime for a better value.

Easy access service points for the fuel-water separator, engine oil filter, battery, radiator fluid level, window washer fluid level and pilot system filter.

Efficient filters and convenient filter locations make maintenance easier.

- Two hydraulic capsule filters are mounted outside the hydraulic tank. This design reduces spills and hydraulic system contamination during replacement. Indicator in cab signals when the filters need to be replaced, extending filter service life.
- Radial seal air cleaner with built-in air precleaner has double layered filter core for better filtration.
 No tools are required to change filter.
 Operator is alerted to the need for filter maintenance.
- The engine oil filter is located in the pump compartment for easy access. To help reduce spills during oil changes, filter opening faces up.
- Pilot hydraulic system filter keeps contaminants away from the pilot system. This system includes a Scheduled Oil Sampling port to simplify sampling.
- A swing and travel motor case drain filter keeps contaminants from returning to the tank.

Design and layout advancements

translate to ease of service.

- Front linkage pin puller holes promote easy disassembly of front linkage.
- Cotter pin retained track master pin simplifies disassembly and assembly.



Environmentally sound features help protect the environment.

- Optional hydraulic tank shutoff valve reduces hydraulic spills during repair service.
- The hydraulic system is compatible with optional factory fill Caterpillar HEES biodegradable oil to reduce environmental impact.
- Engine emission and sound levels meet or are superior to EC regulations.

Water separator removes water from fuel even when under pressure and is easily accessible.

Remote greasing block on the boom and two grease points for the swing bearing deliver grease to hard to reach locations.

Optional Advanced Auto Lubrication system greatly reduces the time and effort required for greasing. The autolubricator can be programmed for specific intervals and volume.

Maestro Electronic Power Unit Control

has diagnostic capabilities for Cat dealers' use.

 Dealer service technicians can quickly and easily diagnose and adjust machine components, maximizing uptime.

Engine

Caterpillar four-cycle 3176C ATAAC (air to air aftercooled) diesel engine.

Ratings at 2000 rpm	kW	hp
Gross power	257	345
Net power	239	321

The following ratings apply at 2000 rpm when tested under the specified standard conditions for the specified standard:

Net power	kW	hp
ISO 9249	239	321
EEC 80/1269	239	321
Dimensions		

Dimensions

Bore	125 mm
Stroke	140 mm
Displacement	10.3 liters

Power rating conditions

- 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 needed up to 2300 m altitude

Exhaust emissions

The 3176C meets the following emission requirements: EU directive 97/68/EC Stage II

Bore	125 mm
Stroke	140 mm
Displacement	10.3 liters

Steering

Two rocker pedals with detachable hand levers control steering and travel functions.

Controls

- controls are pilot-operated for reduced efforts
- left pedal and lever control left track; right pedal and lever control right track
- when idlers are in front, pushing both pedals or levers forward moves the excavator straight ahead
- when the idlers are in front, rocking both pedals or pulling both levers backward moves the excavator straight back
- moving one pedal or lever more than the other, either forward or backward, results in a gradual turn
- moving one pedal or lever forward and the other pedal or lever backward counter-rotates the tracks for spot turns
- optional straight travel third pedal drives both tracks forward or reverse at the same speed. Steering adjustments can be made by simultaneously pressing right or left pedal.

Drive

Drive system is fully hydrostatic.

Ratings

Maximum drawbar pull	331 kN
Maximum travel speed	4.4 km/h

Features

- each track is driven by one independent, automatic shifting, two-speed slipper-type piston motor via integral planetary final drives
- multiple disc brakes, are springapplied and pressure released and Cat HEES bio oil compatible
- each drive module is well integrated into the roller frame for total protection

Brakes

Meets the following standards: ISO 10265:1998

Service and parking brake features

- wet, multiple-disc brakes are used on the final drive input shafts
- spring-applied, hydraulically released
- actuating a travel control simultaneously releases the brakes
- when the controls are released, the brakes automatically apply

Swing Mechanism

Hydrostatic with independent planetary reduction

Ratings

- · · J ·	
Swing torque	149 kNm
Swing speed	8.6 rpm

Features

- the swing mechanism is driven by a pinion gear sealed in a grease bath through a double-reduction planetary gear set
- swing priority is available as a work mode

Hydraulic System

Two variable displacement, axial-piston pumps power the boom, stick, swing, bucket, auxiliary and travel circuits. One single-section, gear-type pump powers the pilot circuit.

Main Implement System

Maximum flow	360 x 2 liters/min
Maximum pressure	
Implements	34 320 kPa
Travel	34 320 kPa
Swing	31 380 kPa
Dilot System	

Pilot System

Maximum flow	41 liters/min
Maximum pressure	4650 kPa

Cylinders, Bore and Stroke

Boom (2)	160 x 1575 mm
Stick (1)	190 x 1758 mm
Bucket (1)	
T family	160 x 1356 mm
U family	170 x 1366 mm

Features

- main hydraulic pumps are electronically and hydraulically controlled and dependent on engine speed
- power modes match hydraulic output to application severity

Cab/FOGS

Bolt-on Falling Object Guard System (FOGS) is available as an attachment.

Cab Certifications

Optional Falling Object Guard System is designed to protect the operator from falling objects, and is certified under ISO 3449-1984 specifications.

Implement Controls

Two joystick hand levers actuate boom, stick, bucket and swing (SAE pattern), as well as optional auxiliary hydraulic functions.

Boom/Bucket Controls (right joystick)

- move forward and backward to lower and raise boom
- move left and right to control bucket curl and dump
- switch on top is one-touch low idle
- 2 switches for auxiliary functions

Stick/Swing Controls (left joystick)

- move forward and backward to move stick out and in
- move left and right to control direction of swing
- switch on top controls horn
- 2 switches for auxiliary functions

Other Features

- oblique movement of either lever operates two functions simultaneously
- manually applied hydraulic actuation lever on left console cuts off pilot pressure for joysticks and travel controls and electrical power for engine starting circuit

Track

Caterpillar designed and built track-type undercarriage.

Track width variable gauge

Standard 600 mm triple grouser

Ground clearance 705 mm

Optional

- 900 mm triple grouser
- 600 mm heavy duty double grouser
- 600 mm heavy duty triple grouser
- 750 mm heavy duty triple grouser

Service Refill Capacities

	Liters
Fuel Tank	720
Cooling System	66
Engine Oil	30
Swing Drive (each)	10
Final Drive (each)	15
Hydraulic system	
(including tank)	520
Hydraulic tank	210

Booms, Sticks and Buckets

Contact your Caterpillar dealer for special bucket requirements. All buckets are available to fit the Cat quick coupler.

				6.55 m ME boom		6.9 m Reach boom		
Bucket type	Linkage	Width Weight Capacity		Stick		Stick		
	LIIIKaye	mm	kg	m ³	2.5 m	3.0 m	2.9 m	3.35 m
	Т	1350	1890	1.8	×	×		
Excavation	Т	1450	1975	2.0	×	×		
EXCOVATION	Т	1570	2075	2.2	×	×		
	U	1750	2690	3.5			×	×
	Т	1350	2035	1.8	×	×		
	Т	1450	2090	2.0	×	×		
Extreme	Т	1570	2230	2.2	×	×		
Excavation	U	1590	2530	2.6			×	×
	U	1680	2630	2.8			×	×
	U	1820	2805	3.1			×	×
	Т	1350	2295	1.8	×	×		
Rock	Т	1450	2390	2.0	×	×		
	Т	1570	2520	2.2	×	×		
	U	1590	2680	2.6			×	×
	U	1680	2800	2.8			×	×
	U	1820	2960	3.1			×	×
Maximum load ir	n kg (payload pl	us bucket)			7567	7090	6924	6313

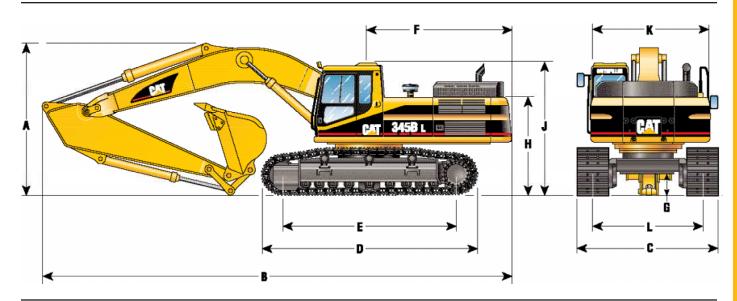




× Not compatible

Dimensions

All dimensions are approximate.



Shipping height (with bucket)	m
Mass boom	
2.5 m stick	3.87
3.0 m stick	3.96
Reach boom	
2.9 m stick	3.66
3.35 m stick	3.69
	Mass boom 2.5 m stick 3.0 m stick Reach boom 2.9 m stick

Shipping length	m
Mass boom	
2.5 m stick	11.46
3.0 m stick	11.40
Reach boom	
2.9 m stick	11.72
3.35 m stick	11.72
	Mass boom 2.5 m stick 3.0 m stick Reach boom 2.9 m stick

C	Shipping width	m
	retracted position	
	600 mm shoes (standard)	2.99
	750 mm shoes	3.14
	900 mm shoes	3.29
D	Track length	5.37
Ε	Length to centers of rollers	4.34
F	Tail swing radius	3.65
G	Ground clearance	0.71
H	Body height	2.53
J	Cab height	3.47
	with FOGS	3.65
K	Body width*	2.99
L	Track gauge	
	extended	2.89
	retracted	2.39

* No mirrors or handrails

Machine and Major Component Weights

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

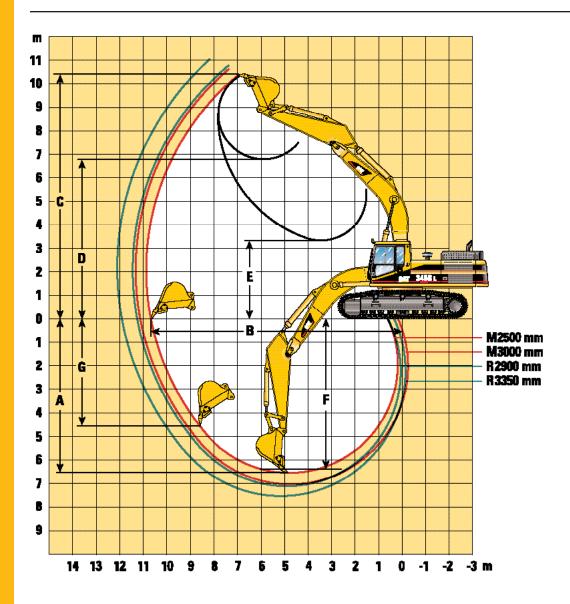
		6.5 Mass	5 m boom	6.9 m Reach boom		
Sticks	m	2.5	3.0	2.9	3.35	
Operating weight*	kg	48 985	48 960	48 010	47 835	
Bucket capacity	m ³	2.6	2.6	2.2	2.0	
Ground pressure	kg/cm ²	0.86	0.86	0.85	0.84	
Stick weight	kg	1700	1675	1670	1655	
Boom weight	kg	3645		3125		
Upperstructure**	kg	10 495		10 495		
Undercarriage						
with 600 mm shoes	kg	18	780	18 780		
with 750 mm shoes	kg	19 715		19 715		
with 900 mm shoes	kg	20 -	465	20 -	465	
Counterweight	kg	93	00	93	00	

* With counterweight, operator and full fuel.

**Without counterweight.

Working Ranges – Long Variable Gauge Undercarriage

Mass (M) boom and Reach (R) boom configurations



	M3.0U	M2.5U	R3.35T	R2.9T
A Maximum Digging Depth	7.11 m	6.61 m	7.50 m	7.04 m
B Maximum Reach at Ground Level	11.12 m	10.76 m	11.69 m	11.27 m
C Maximum Cutting Height	10.73 m	10.55 m	11.09 m	10.91 m
D Maximum Loading Height	6.92 m	6.73 m	7.56 m	7.39 m
E Minimum Loading Height	2.76 m	3.26 m	2.92 m	3.37 m
F Maximum Digging Depth 2.44 m Level Bottom	7.03 m	6.44 m	7.34 m	6.87 m
G Maximum Vertical Wall Digging Depth	4.83 m	4.48 m	5.94 m	5.50 m
Bucket Digging Force (ISO 6015)	229.2 kN	238.8 kN	219.9 kN	226.2 kN
Stick Digging Force (ISO 6015)	214.5 kN	234.6 kN	203.7 kN	218.3 kN
Bucket Size	2.6 m ³	2.6 m ³	2.0 m ³	2.2 m ³
Tip Radius	2096 mm	2096 mm	1890 mm	1890 mm

Lift capacities

All weights are in kg

Medium Stick 3.0 m Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight 2657 kg Mass boom Short Stick 2.5 m Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Capacity (SAE) 2.6 m ³ Bucket Capacity (SAE)	9.0 m 7.5 m 6.0 m 4.5 m 3.0 m 1.5 m Ground -1.5 m -3.0 m -4.5 m 9.0 m 7.5 m 6.0 m 4.5 m 3.0 m	1.5		*15 480 *22 100 *17 700 3.0	*15 480 *22 100 *17 700	*14 860 *18 340 *20 370 *20 620 *19 600 *17 430 *13 600	*14 860 *18 340 18 480 17 860 17 810 *17 440 *13 600	*11 120 *12 830 *14 140 *14 700 *14 400 *13 040 *9970	*11 120 12 610 11 790 11 280 11 090 11 190 *9970	*7950 *8340 *9120 *10 030 *10 780 *11 150 *10 890 *9610	*7950 *8340 9070 8610 8170 7860 7720	*7940 *8350 *8690 *8730	6260 6070 5860 5710	*3900 *3680 *3650 *3740 *3970 *4360 *4950 *5880	*3900 *3680 *3650 *3740 3970 3990 4250 4890	m 8.8 9.9 10.6 11.0 11.1 10.9 10.5 9.8
Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight 2657 kg Mass boom Short Stick 2.5 m Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight	7.5 m 6.0 m 4.5 m 3.0 m 1.5 m Ground -1.5 m -3.0 m -4.5 m 9.0 m 7.5 m 6.0 m 4.5 m	1.5		*22 100 *17 700 3.0	*22 100 *17 700	*18 340 *20 370 *20 620 *19 600 *17 430 *13 600	*18 340 18 480 17 860 17 810 *17 440	*12 830 *14 140 *14 700 *14 400 *13 040	12 610 11 790 11 280 11 090 11 190	*8340 *9120 *10 030 *10 780 *11 150 *10 890	*8340 9070 8610 8170 7860 7720	*7940 *8350 *8690	6070 5860	*3680 *3650 *3740 *3970 *4360 *4950	*3680 *3650 *3740 3970 3990 4250	9.9 10.6 11.0 11.1 10.9 10.5
600 mm Bucket Capacity (SAE) 2.6 m³ Bucket Weight 2657 kg Mass boom Short Stick 2.5 m Shoes 600 mm Bucket Capacity (SAE) 2.6 m³ Bucket Capacity (SAE) 2.6 m³ Bucket Weight	6.0 m 4.5 m 3.0 m 1.5 m Ground -1.5 m -3.0 m -4.5 m 9.0 m 7.5 m 6.0 m 4.5 m			*22 100 *17 700 3.0	*22 100 *17 700	*18 340 *20 370 *20 620 *19 600 *17 430 *13 600	*18 340 18 480 17 860 17 810 *17 440	*12 830 *14 140 *14 700 *14 400 *13 040	12 610 11 790 11 280 11 090 11 190	*8340 *9120 *10 030 *10 780 *11 150 *10 890	*8340 9070 8610 8170 7860 7720	*8350 *8690	6070 5860	*3650 *3740 *3970 *4360 *4950	*3650 *3740 3970 3990 4250	10.6 11.0 11.1 10.9 10.9
Bucket Capacity (SAE) 2.6 m ³ Bucket Weight 2657 kg Mass boom Short Stick 2.5 m Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight	4.5 m 3.0 m 1.5 m Ground -1.5 m -3.0 m -4.5 m 9.0 m 7.5 m 6.0 m 4.5 m			*22 100 *17 700 3.0	*22 100 *17 700	*18 340 *20 370 *20 620 *19 600 *17 430 *13 600	*18 340 18 480 17 860 17 810 *17 440	*12 830 *14 140 *14 700 *14 400 *13 040	12 610 11 790 11 280 11 090 11 190	*9120 *10 030 *10 780 *11 150 *10 890	9070 8610 8170 7860 7720	*8350 *8690	6070 5860	*3740 *3970 *4360 *4950	*3740 3970 3990 4250	11. 11. 10. 10.
2.6 m ³ Bucket Weight 2657 kg Mass boom Short Stick 2.5 m Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight	3.0 m 1.5 m Ground -1.5 m -3.0 m -4.5 m 9.0 m 7.5 m 6.0 m 4.5 m			*22 100 *17 700 3.0	*22 100 *17 700	*18 340 *20 370 *20 620 *19 600 *17 430 *13 600	*18 340 18 480 17 860 17 810 *17 440	*12 830 *14 140 *14 700 *14 400 *13 040	12 610 11 790 11 280 11 090 11 190	*10 030 *10 780 *11 150 *10 890	8610 8170 7860 7720	*8350 *8690	6070 5860	*3970 *4360 *4950	3970 3990 4250	11. 10. 10.
2.6 m ³ Bucket Weight 2657 kg Mass boom Short Stick 2.5 m Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight	1.5 m Ground -1.5 m -3.0 m -4.5 m 9.0 m 7.5 m 6.0 m 4.5 m			*22 100 *17 700 3.0	*22 100 *17 700	*20 370 *20 620 *19 600 *17 430 *13 600	18 480 17 860 17 810 *17 440	*14 140 *14 700 *14 400 *13 040	11 790 11 280 11 090 11 190	*10780 *11150 *10890	8170 7860 7720	*8690	5860	*4360 *4950	3990 4250	10. 10.
Bucket Weight 2657 kg Mass boom Short Stick 2.5 m Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight	Ground -1.5 m -3.0 m -4.5 m 9.0 m 7.5 m 6.0 m 4.5 m			*22 100 *17 700 3.0	*22 100 *17 700	*20 620 *19 600 *17 430 *13 600	17 860 17 810 *17 440	*14 700 *14 400 *13 040	11 280 11 090 11 190	*11 150 *10 890	7860 7720			*4950	4250	10.
2657 kg Mass boom Short Stick 2.5 m Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight	-1.5 m -3.0 m -4.5 m 9.0 m 7.5 m 6.0 m 4.5 m			*22 100 *17 700 3.0	*22 100 *17 700	*19600 *17430 *13600	17 810 *17 440	*14 400 *13 040	11 090 11 190	*10 890	7720	*8730	5710			
Mass boom Short Stick 2.5 m Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight	-3.0 m -4.5 m 20 m 7.5 m 6.0 m 4.5 m			*22 100 *17 700 3.0	*22 100 *17 700	*17 430 *13 600	*17 440	*13 040	11 190		-			*5880	4890	9
Short Stick 2.5 m Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight	-4.5 m 9.0 m 7.5 m 6.0 m 4.5 m			*17 700	*17 700	*13 600	-			*9610						
Short Stick 2.5 m Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight	9.0 m 7.5 m 6.0 m 4.5 m			3.0			*13 600	*9970	*0070		7810					
Short Stick 2.5 m Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight	7.5 m 6.0 m 4.5 m				m	4.0			3370							
2.5 m Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight	7.5 m 6.0 m 4.5 m					4.5	4.5 m 6.0 m 7.			7.5 m 9.0 m		4				
2.5 m Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight	7.5 m 6.0 m 4.5 m						F						-			m
Shoes 600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight	7.5 m 6.0 m 4.5 m					0		Ū		Ū		0		*5120	*5120	8
600 mm Bucket Capacity (SAE) 2.6 m ³ Bucket Weight	6.0 m 4.5 m									*8430	*8430			*4840	*4840	ŏ
Bucket Capacity (SAE) 2.6 m ³ Bucket Weight	4.5 m							*10 240	*10 240	*8830	*8830			*4840	*4840	10
2.6 m ³	-					*16 050	*16 050	*10 240	*10 240	*9530	~8830 8860			*4920	^4800 4550	10
ucket Weight	J.U III					*19270	*19270		12310	*10340	8430	*8550	5920	*5200	4550	10
-	1.5 m					*17 720	*17 720	*14 400	11 570	*10 960	8040	*8750	5760	*5660	4230	10
	Ground					*20 170	17 680	*14 680	11 160	*11 140	7790	0750	5700	*6380	4640	10
2657 kg	–1.5 m			*16 390	*16 390	*18 750	17 810	*14 050	11 070	*10 600	7720			*6710	5440	
	-3.0 m			*20 470	*20 450	*16 170	*16 170	*12 270	11 270					07.10	0110	
	-4.5 m					*11650	*11 650	*8140	*8140							
	-						I		I							
leach boom		1.5	m	3.0	m		ōm) m	7.5	m	9.0	m			
Aedium Stick	<u>S</u>		C 🗣				F		P		F		F		P	m
3.4 m	9.0 m									*6840	*6840			*3540	*3540	
hoes	7.5 m									*7810	*7810			*3390	*3390	1
600 mm	6.0 m									*8390	*8390	*7670	6950	*3380	*3380	11
Bucket Capacity (SAE)	4.5 m					*15 090	*15 090	*11 310	*11 310	*9310	*9310	*8110	6800	*3480	*3480	1
2.0 m ³	3.0 m					*18 890	*18 890	*13 190	13 030	*10340	9060	*8650	6570	*3690	*3690	11
Bucket Weight	1.5 m					*18570	*18 570	*14 660	12 860	*11 220	8640	*9130	6350	*4030	*4030	11
2014 kg	Ground					*19 250	18 560	*15 380	11 810	*11730	8340	*9360	6180	*4550	4340	11
	—1.5 m			*12 940	*12 940	*20740	18 490	*15 260	11 620	*11 690	8190	*9130	6100	*5350	4870	10
	–3.0 m			*20 040	*20 040	*18 900	18700	*14 230	11 660	*10870	8210			*6020	5900	9
	-4.5 m			*20 800	*20 800	*15770	*15770	*11 970	11 920	*8620	8450					
Reach boom		1.5	im	3.0	m	4 5	i m	6() m	7.5	m	9.0	m		-	
Short Stick	<u>ک</u> ر	- File			(P						F			"		m
2.9 m	<u> </u>													*4190	*4190	8
Shoes	7.5 m									*8290	*8290			*4010	*4010	10
600 mm	6.0 m									*8800	*8800	*7770	6740	*4000	*4000	10
Bucket Capacity (SAE)	4.5 m					*16 190	*16 190	*11 860	*11 860	*9650	9300	*8360	6630	*4110	*4110	11
•	3.0 m					*19720		*13 600	12710	*10 590	8860	*8820	6430	*4350	4320	1
2.2 m ³	1.5 m						*14 880	-		*11 350	8470	*9190	6230	*4740	4340	11
Bucket Weight	Ground					*18 340		*15 300		*11 690	8210	*9280	6090	*5340	4610	10
2114 kg	-1.5 m			*13 560	*13 570	*19880		*14910		*11 450	8100	*8780	6060	*6260	5230	9
	-3.0 m			*22 270	*22 270	*17 730		*13 580		*10 320	8190			*5160	*5160	8
	-4.5 m			*17 800			*14 170		*10 820							

Load Point Height * 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.

Standard Equipment

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

Air precleaner Alternator, 70-amp Automatic engine speed control Automatic swing parking brake Auxiliary hydraulic valve and auxiliary (high pressure) pump drive location Boom drift reducing valve Boom lowering check valve with overload warning device Cab Air conditioner with automatic climate control Ash tray with lighter Coat hook Drink holder Floor mat Heater and defroster Horn Instrument panel with gauges, gauges and indicator lights for fuel level, coolant temperature and hydraulic oil temperature, hydraulic filter clogging warning Light, interior Literature compartment Low fuel indicator Joysticks, adjustable pilot-operated Prewired radio mounting (DIN) with mounting for two speakers, antenna Positive filtered ventilation Seat belt, retractable (76 mm width) Seat, KAB 524 (high back with head rest), suspension, four way adjustable (up-down, front-rear),

adjustable arm rests

Skylight, fixed Start-up level check for hydraulic oil, engine oil, and engine coolant Storage compartment suitable for a lunch box cooler Travel control pedals with removable hand levers Two-speed travel with automatic shift change Windows, laminated front upper windshield (50/50 split/flat), all other windows to be tempered glass, green tinted, sliding upper door window Windshield wiper and washer, upper and lower Cat XT hoses and reusable coupling Cat maintenance free batteries Cooling package, with high ambient capability Counterweight (9300 kg) with lift hook Diagnostic authoring tool for use with Cat Service Information System (SIS) Door locks and cap locks with Caterpillar one-key security system EC Mark package including steps, mirrors, and other EC required features EC sound package, 109 dB(A) ISO 6395 label Engine: Cat 3176C ATAAC 2300 m altitude capability diesel engine Low emission/Low noise version

Fire wall between pump compartment and engine

Fully pressurized hydraulic system Guard, heavy duty bottom – including swivel guard with bolt head protection Heavy duty upper frame Hydraulic neutralizer lever for all controls Lights, working Frame mounted, one Boom, both sides Cab mounted, two Storage box mounted, one Mirrors, frame (right) and cab (left) Muffler Overheat protection system (through controller ROM) Pre-start monitoring system Power mode selector Radial seal air filter with double element Return filter clogging alarm Reverse swing damping valve S•O•S quick sampling valves for engine and hydraulic oil Stick drift reducing valve SmartBoom[™] Water separator in fuel line Work mode selector Undercarriage Hydraulic track adjusters Track-type sealed undercarriage Idler and center section track guides 600 mm, 14 mm thick section triple-grouser shoes Towing eyes on base frame (front and rear)

Optional Equipment

Automatic linkage lubrication system (includes all front end lube points and swing bearing) Auxiliary hydraulics Single function (one way) control including 2-pump flow capability Combined function (one way - two way) control including 2-pump flow Medium pressure auxiliary hydraulic circuit Two speed capability for single function control Auxiliary hydraulic lines for boom and stick Bio oil factory fill (Caterpillar HEES), includes fine filtration for water and particle content Booms: "M" Mass excavation 6.55 m (with side lights) "R" Reach boom 6.95 m (with side lights) Buckets, see pages 15 and 18 Bucket linkage: T family U family Bucket tips Counterweight (11000 kg) (must use heavy duty upper frame) for special applications

Cyclone precleaner for extreme dust conditions Electric refueling pump with automatic shutoff Extreme cold weather configuration for -40°C operation Grease lines for boom, stick for use with autolube and manual greasing Guards: FOGS (Falling Object Guarding System), including cab working lights Track guiding guard, two piece additional without center guard F/U/W LC Variable gauge undercarriage Hydraulic lines, auxiliary for reach boom and stick Hydraulic tank suction line shut off valve Operator's station Seat KAB 524 with seat heater Rain protection for windshield, high impact and scratch resistant One piece fixed position high impact resistant front windshield 3rd pedal, straight travel (right hand side) Modulating pedal for tool actuation (left hand side) Starting aid, cold weather Starting aid, ether

Sticks Mass Excavation sticks (for use with ME boom) 3000 mm 2500 mm Reach sticks (for use with the Reach boom) 3350 mm 2900 mm Stick lowering check valve Track Regular duty track shoes: 900 mm T.G. shoes. 15.5 mm thick section (including E.C. steps) Heavy duty track shoes: 600 mm double grouser 15.5 mm cross section (including E.C. steps) 600 mm triple grouser 15.5 mm cross section (including E.C. steps) 750 mm triple grouser 15.5 mm cross section (including E.C. steps)

345B L Series II Hydraulic Excavator

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

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HEHH2741-1 (08/2003) hr