



**307B**  
**307B SB**  
Hydraulic Excavator

**CAT**<sup>®</sup>

**Operating Weight Up To:**

<b>307B</b>	<b>7 818 kg</b>	<b>17,235 lb</b>
<b>307B Swing Boom</b>	<b>8 418 kg</b>	<b>18,555 lb</b>
<b>Travel Speed (Maximum)</b>	<b>5.0 km/h</b>	<b>3.1 mph</b>
<b>MMC 4M40 Diesel Engine</b>		
<b>(Net Flywheel Power)</b>	<b>40 kW</b>	<b>54 hp</b>

## 307B Hydraulic Excavator

*Improved serviceability, performance and rugged durability combine to maximize productivity.*

---

### Operator Station and Instrumentation

Roomy, quiet cab has excellent sightlines to the work area to help keep operator fatigue low and production up throughout the entire shift. **pg. 6-7**

---

### Serviceability

Simplified service through many ground level service points, improved filtration and filter access means increased productivity. **pg. 8**

---

### Undercarriage and Blade

Cat designed excavator undercarriage is stable, durable and low maintenance.   
✓ *New smoother track roller frames are easier to clean. A blade option adds versatility.* **pg. 9**

### *Improved performance.*

*Better controllability, simplified service and a more comfortable operator station increase productivity and lower operating costs.*





---

### Hydraulics

The open-center, two-pump hydraulic system features positive flow control which improves fuel efficiency, ensures smooth controllability, reduces sound levels and extends component life.

**pg. 9**

---

### Engine

The 307B is powered by the MMC 4M40 engine. This engine includes several design features which enhance performance, efficiency and reliability.

**pg. 10**

---

### Durable Structures

Caterpillar design and manufacturing techniques assure outstanding durability and service life. The box-section, modified "X" carbody structure provides unsurpassed strength and rigidity.

**pg. 10**

---

### Parallel Offset Boom

By offsetting to the left and right, this boom option allows the boom and stick to dig parallel to the tracks up against walls, fences, or other obstacles.

**pg. 13**



✓ *New feature*

# 307B Swing Boom Hydraulic Excavator

*Enhanced versatility extends application ranges.*

---

## **Operator Station and Instrumentation**

Roomy, quiet climate controlled cab has excellent sightlines to the work area to help keep operator fatigue low and production up throughout the entire shift. **pg. 6-7**

---

## **Serviceability**

Simplified service through many ground level service points, improved filtration and filter access means increased productivity. **pg. 8**

---

## **Undercarriage and Blade**

Cat designed excavator undercarriage is stable, durable and low maintenance.

✓ *New smoother track roller frames are easier to clean. A blade option adds versatility.* **pg. 9**

## ***Improved performance.***

*Better controllability, simplified service and a more comfortable operator station increase productivity and lower operating costs.*

## ***Added versatility.***

*The 307B Swing Boom version was designed for ultimate versatility. Swing the boom in one direction and the upper in the opposite direction to dig up alongside buildings or walls. The boom's swing joint is designed so that it can be used with hydraulic tools like hammers or with the long stick.*



---

**Hydraulics**

The open-center, two-pump hydraulic system features positive flow control which improves fuel efficiency, ensures smooth controllability, reduces sound levels and extends component life.

**pg. 9**

---

**Engine**

The 307B is powered by the MMC 4M40 engine. This engine includes several design features which enhance performance, efficiency and reliability.

**pg. 10**

---

**Durable Structures**

Caterpillar design and manufacturing techniques assure outstanding durability and service life. The box-section, modified “X” carbody structure provides unsurpassed strength and rigidity. **pg. 10**



✓ *New feature*



## Operator Station

*Designed for comfort, excellent viewing, 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 efficient ventilation. The result is a cab that puts the operator firmly and comfortably in control which can translate into greater productivity.

**Excellent viewing area** through large, wide windows. A roof hatch provides upward visibility. The upper left side door window can slide open. The lower window provides a view to the tracks and the ground next to the machine. The rear window offers a good view behind and to the left, aided by a low hood profile.

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

**The double wall, pressed cab shell** is mounted to the swing frame using viscous mounts for reduced sound and vibrations.

**1 Ventilation system.** The operator can choose between heating or (optional) air conditioning.

**2 Hydraulic activation control lever** deactivates hydraulic functions and prevents start-up when the operator exits the cab.

**3 Joysticks control all implements** and swing functions with minimal effort. The integrated joystick consoles adjust to operator preference. Joystick consoles are suspended as part of the seat arrangement.

**4 Hand or foot actuated travel controls** allow the operator to move the excavator while working the front-end.

**5 Dial throttle** with ten settings for simple, precise engine speed adjustment.

**6 The fully adjustable optional suspension seat** includes an impressive range of comfort features. It has fore/aft height and weight adjustments and a retractable seat belt.

# Instrumentation

The **left console** contains the most-often-used switches: lights, wiper, travel, power mode selector, hydraulic activation control lever, as well as an optional air conditioner and radio control switch. There is also reserved space for additional switches.

**Two power mode settings** allow operator to choose hydraulic flow for each work situation, which can result in significant fuel savings and noise control.

- 100% power is used for high-production truck loading, trenching, high-speed travel and hydraulic hammer use. 70% power is best for normal truck loading, trenching, setting pipe and utility work.

The **hydraulic activation control lever**, when in the lock position, cuts pilot pressure for control levers.



## Left Console

### Controls

- 1 Left joystick
- 2 Hydraulic activation control lever

### Switches

- 3 Machine lights
- 4 Windshield wiper
- 5 Windshield washer
- 6 Travel speed
- 7 Spare
- 8 Cab mounted lights
- 9 Spare
- 10 Power mode selector

### Radio and Heater

- 11 AM/FM stereo radio (Optional)
- 12 Heater/Air conditioner (Optional)

The **right console** contains the engine throttle dial, the key switch and instrument panel.

The **engine throttle dial** is situated to make extreme rear lever operations easy.

- Engine speed can be increased by moving the dial clockwise. Moving the dial counterclockwise reduces engine speed.

The **key switch** has four positions: “Off”, “On”, “Start”, and “Heat”.

- When the key switch is “On”, all indicators, gauges, and the action alarm comes on for approximately 2.5 seconds. In difficult cold weather starting conditions, the “Start” position lights the glow indicator, showing that the glow plugs are heating.

## Right Console

### Controls

- 13 Right joystick
- 14 Key start switch
- 15 Engine throttle dial

### Gauges

- 16 Fuel level
- 17 Engine coolant temperature
- 18 Hydraulic oil pressure

### Indicators

- 19 Glow plug
- 20 Charging
- 21 Engine coolant temperature
- 22 Engine oil pressure





## Serviceability

*Simplified service and maintenance features save time and money.*

**Faster, easier maintenance** means improved uptime and a better value.

**More ground level service points** for fuel-water separator, battery, radiator fluid level, window washer fluid level and pilot system filter.

**Design and layout improvements** translate to ease of use.

- New, opening rear hood design gives unmatched access to fuse box, windshield washer tank, batteries, air filter, fuel filter, engine oil filter, dipstick and pilot filter.
- Cotter pin retained track master pin simplifies disassembly and assembly.

**Water separator removes water from fuel** even when under pressure.

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



## Complete Customer Support

*Cat dealer services help you operate longer with lower costs.*

Your Cat Dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. To help you get the best return on your investment, the dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement.

**Selection.** Make detailed comparisons of the machines you are considering before you buy. What are the job requirements? What production is needed? What is the true cost of lost production? Your Cat Dealer can give you precise answers to these questions.

**Purchase.** Look past initial price. Consider the financing options available as well as day-to-day

operating costs. This is also the time to look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.

**Operation.** Improving operating techniques can boost your profits. Your Cat Dealer has training videotapes, literature and other ideas to help you increase productivity.

**Maintenance.** What is the cost of preventive maintenance? More and more equipment buyers are planning for effective maintenance before buying equipment. Choose from your dealer's wide range of maintenance services at the time you purchase your machine. Repair option programs guarantee the cost of repairs up front.

Diagnostic programs such as Scheduled Oil Sampling and Technical Analysis help you avoid unscheduled repairs.

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

**Product support.** You will find nearly all parts at our dealer parts counter. Cat Dealers utilize a worldwide computer network to find in-stock parts to minimize machine downtime. Save money with remanufactured components. You receive the same warranty and reliability as new products at cost savings of 40 to 70 percent.



## Undercarriage and Blade

*Durable undercarriage absorbs stresses and provides excellent stability.*

**Precision robotic welding** helps ensure quality welds. These welds increase rigidity, reduce internal stresses and enhance durability for the chassis and track roller frames.

### **Heavy-duty, X-shaped chassis design.**

Cat undercarriage components are purposely oversized to offer heavy-duty performance and durability.

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

**Smoother auto shifting two-speed travel motors** offer top travel speeds and plenty of pull on slopes or turns.

**The elimination of the ledge** at carbody and roller frame juncture reduces material build-up and makes digging out easier.



### **1 Optional blade** increases versatility.

- Helps level a working space so the 307B sits firmly and digs vertically.
- Dozes and backfills trenches. Blade even has a float position for ease of use, smooth results.
- Speeds site cleanup - objects can be trapped against the blade for easier bucket loading.
- With the blade down, lift capacity over the front is increased (see lift charts in the specifications section).



### **2 Rubber belt track (optional)** comes in black or white and is available for use in urban areas.

- Helps prevent damage to concrete or other road surfaces.

## Hydraulics

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

**Dramatically increased control responsiveness** aids operation and improves cycle time.

- Control movements better matched to hydraulic action for improved operator performance.
- Improved swing damping restrains drift and improves positioning during finishing and lifting applications.

### **Hydraulic cross-sensing system**

improves productivity with faster implement speeds and quicker, stronger pivot turns.

- 100 percent of engine horsepower deliverable as hydraulic power.
- Full power to a single motor for strong, fast turns. Balanced power to two pumps for straight travel.



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

**Auxiliary hydraulic valve** is standard on the 307B for use with optional hydraulic circuits.

**Hydraulic cylinder snubbers** at rod-end of boom cylinders and both ends of stick cylinders cushion shocks, reduce sound and increase cylinder life.

**Cat's XT hose** meets the critical flexibility and strength demands of the 307B.

## 4M40E1 Engine

*The four cylinder engine is built for power, reliability, economy and low emissions.*

**The Mitsubishi Motors Corporation (MMC) 4M40E1 Engine** offers improved thermal efficiency with low fuel consumption and reduced low engine sound levels and vibration.

**Cylinder block** is cast iron for improved wear resistance. The upper part is laser hardened to reduce oil consumption and internal component wear.

**Heat resistant aluminum alloy pistons** have a short compression height, reducing weight and improving efficiency. The piston ring set consists of three rings, which are treated for wear resistance.

**Forged, high carbon steel connecting rods** with smaller connecting rod to crank radius ratio results in a lightweight, powerful, compact engine.



## Durable Structures

*The 307B's structural components are the backbone of the machine's durability and strength.*

**Advanced carbody design** stands up in the toughest applications.

- Modified X-shaped, box-section carbody provides excellent resistance to torsional bending.
- Upper structure weight and stresses are distributed evenly across the full length of the track roller frame.
- Smooth transitions and long welds reduce stresses at the carbody-to-roller frame junctions for excellent durability.
- Robot welding ensures consistent, high-quality welds throughout the manufacturing process.

**Robot-welded track roller frames** are press-formed, pentagonal units that deliver exceptional strength and service life.

**Rugged mainframe** is designed for maximum durability and efficient use of materials.

- 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 main rails are constructed of solid, high-tensile strength steel plates.
- Boom foot and engine mount areas reinforced for additional strength.
- Sheet metal supporting structure is improved by integrating the mounting into upper frame structure.
- Inverted U-channels span the width of the main frame and are formed, rather than fabricated, for superior strength and reduced weight.

## Engine

Mitsubishi Motors Corporation (MMC) 4M40E1 diesel engine.

Ratings at 1900 rpm*	kW	hp
Gross power	41	55
Net power	40	54

The following ratings apply at 2100 rpm when tested under the specified standard conditions for the specified standard:

Net power	kW	hp
Caterpillar	40	54
ISO 9249	40	54
SAE J1349	40	54
EEC 80/1269	40	54

### Dimensions

Bore	95 mm	3.7 in
Stroke	100 mm	4.0 in
Displacement	2.84 liters	173 in <sup>3</sup>

### \*Power rating conditions

- based on standard air conditions of 25°C (77°F) and 99 kPa (29.32 in Hg) dry barometer
- used 35° API gravity fuel having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 30°C (86°F) [ref. a fuel density of 838.9 g/L (7.001 lb/ U.S. gal)]
- 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 1500 m (5,000 ft) altitude

### Features

- fuel injectors control fuel delivery more efficiently, resulting in better performance, fuel economy, and reduced noise and smoke
- 24-volt electric system with 35-amp alternator and two, 100-amp/hr batteries
- low profile, heat-resistant, aluminum alloy pistons
- high carbon, steel forged connecting rods
- precision cast, aluminum alloy cylinder heads
- one-piece, induction hardened forged alloy crankshaft

## 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	2 x 67 liters/min (2 x 17 gpm)
Maximum pressure	
Implements/Swing	280 kg/cm <sup>2</sup> (3,980 psi)
Travel	320 kg/cm <sup>2</sup> (4,550 psi)

### Pilot System

Maximum flow	17 liters/min (4.5 gpm)
Maximum pressure	40 kg/cm <sup>2</sup> (570 psi)

### Blade/Swing Boom System \*

Maximum flow	31 liters/min (8.2 gpm)
Maximum pressure	210 kg/cm <sup>2</sup> (2990 psi)

### Cylinders, Bore and Stroke

Boom (2)	110 x 998 mm (4.3" x 39.3")
Stick (1)	90 x 932 mm (3.5" x 36.7")
Bucket (1)	80 x 742 mm (3.1" x 29.2")
Swing Boom (1)	100 x 651 mm (4.0" x 25.6")

\* - Standard on 307B Swing Boom. Included with optional blade on 307B.

## Drive

Drive system is fully hydrostatic.

### Ratings

Maximum drawbar pull	55 kN	(12,360 lb)
Maximum travel speed	5.0 km/h	(3.1 mph)

### Features

- each track is driven by one independent, automatic shifting, two-speed axial piston motor via integral planetary final drives
- each drive module is well integrated into the roller frame for total protection

## Brakes

Meets the following standards:  
SAE J1026 APR90

### 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



## Buckets

Buckets have tapered sides, angled corner teeth, dual radius curvature, horizontal wear strips, and holes for optional side cutters.

Width		Capacity		Recommended Maximum Material Density			
				Medium Stick		Long Stick	
mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg/m <sup>3</sup>	lbs/yd <sup>3</sup>	kg/m <sup>3</sup>	lbs/yd <sup>3</sup>
450	18	0.15	0.2	1800	3000	1800	3000
600	24	0.23	0.3	1800	3000	1800	3000
770	30	0.3	0.4	1800	3000	1500	2500
920	36	0.34	0.45	1500	2500	1200	2200

### Material Densities

Material	kg/m <sup>3</sup> *	lb/yd <sup>3</sup> **	Material	kg/m <sup>3</sup> *	lb/yd <sup>3</sup> **
Clay, dry	1500	2500	Gravel, pit run	1930	3250
Clay, wet	1660	2800	Rock/dirt, 50%	1720	2900
Earth, dry	1510	2550	Sand, dry	1425	2400
Earth, wet	1600	2700	Sand, wet	1700	2850
Loam	1250	2100	Sand & Clay	1600	2700
Gravel, dry	1510	2550	Stone, crushed	1600	2700
Gravel, wet	2000	3400	Top soil	950	1600

\* kilograms per loose cubic meter

\*\* pounds per loose cubic yard

For densities of other materials see Caterpillar Performance Handbook

## Operating Weights

307B with 450 mm (18") shoes	Medium Stick	Long Stick
With one-piece boom	6500 kg (14,330 lb)	6550 kg (14,440 lb)
With parallel offset boom	6980 kg (15,390 lb)	7030 kg (15,500 lb)

307B SB with 450 mm (18") shoes	Medium Stick	Long Stick
Weight	7580 kg (16,710 lb)	7630 kg (16,820 lb)

### Major Attachment Weights - 307B and 307B SB

Blade 2300 mm	+ 460 kg (1020 lb)
Blade 2400 mm	+ 470 kg (1040 lb)
600 mm (24") steel shoes	+ 170 kg (370 lb)
500 mm (18") rubber track	- 110 kg (240 lb)
Swivel Guard	+ 75 kg (164 lb)
A/C	+ 40 kg (88 lb)
Single-function auxiliary hydraulics	+ 11 kg (25 lb)
Boom lines	+ 16 kg (35 lb)
Stick lines	+ 6 kg (13 lb)

## Implement Controls

Two joystick hand levers actuate boom, stick, bucket and swing (SAE pattern).

### Boom/Bucket Controls (right joystick)

- move forward and backward to lower and raise boom
- move left and right to control bucket curl and dump
- button on top is one-touch low idle

### Stick/Swing Controls (left joystick)

- move forward and backward to move stick out and in
- move left and right to control direction of swing
- button on top controls horn

### Other Features

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

## Steering

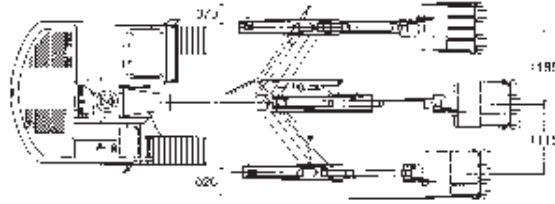
Two hand levers with optional pedals control steering and travel functions.

### 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

## Parallel Offset Boom

The optional parallel offset boom arrangement for the 307B enables the machine to dig outside the tracks alongside walls, fences and other obstacles. The offset range to the left is 1185 mm (3' 11") and to the right, the range is 1115 mm (3' 8").



**NOTE:** Boom shown here is 307A. Boom design did not change on 307B.

## Track

Caterpillar designed and built track-type undercarriage and track shoes.

		Track Width	Ground Pressure
<b>307B</b>	Standard	450 mm (18") triple grouser	30 kPa (4.35 psi)
		600 mm (24") triple grouser	23 kPa (3.34 psi)
	Optional	450 mm (18") rubber track	30 kPa (4.35 psi)
<b>307B SB</b>	Standard	450 mm (18") triple grouser	34 kPa (4.93 psi)
		600 mm (24") triple grouser	36 kPa (3.77 psi)
	Optional	450 mm (18") rubber track	34 kPa (4.93 psi)

**NOTE:** 770 mm (28") and 800 mm (30") shoes are available as custom attachments

## Swing Mechanism

Hydrostatic with independent planetary reduction.

### Ratings

Swing Torque	12 800 kN·m (9,440 lb ft)
Swing Speed	11.0 rpm

### Features

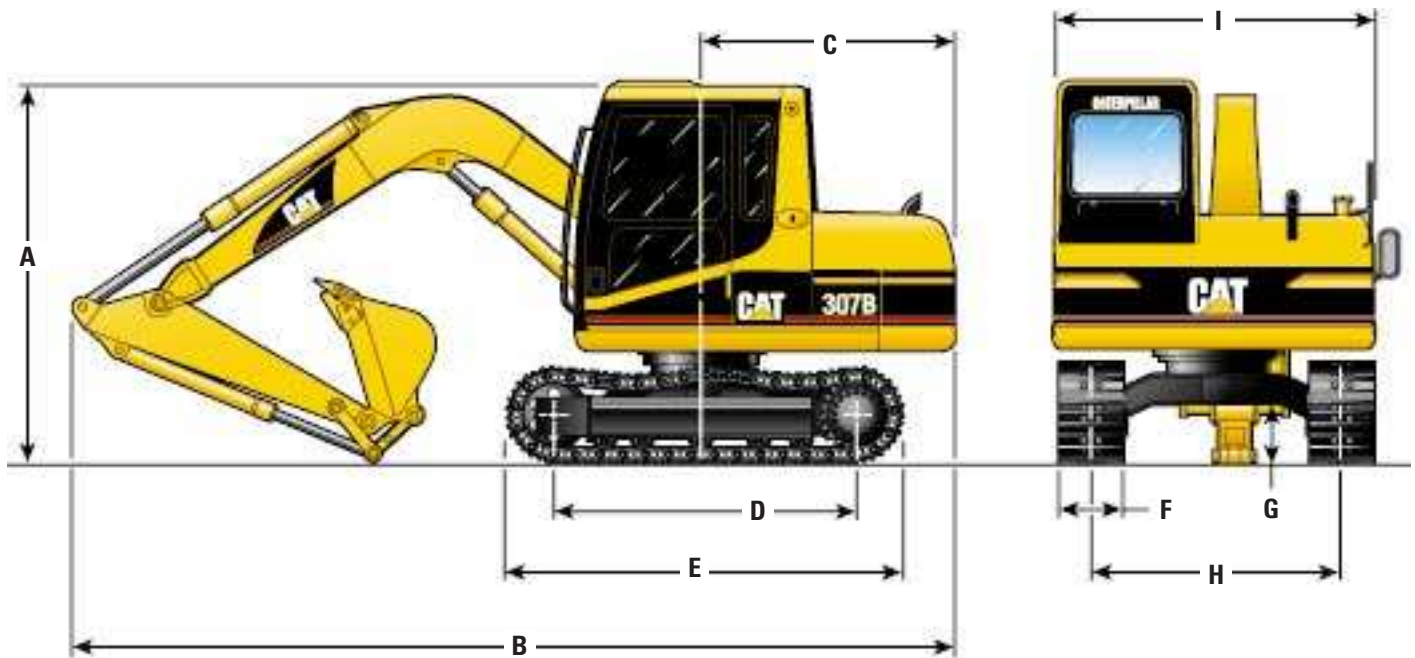
- the swing mechanism is driven by a pinion gear sealed in a grease bath through a double-reduction planetary gear set

## Service Refill Capacities

	L	Gallons
Fuel Tank	135	36.6
Cooling System	15	4.0
Engine Oil	7.2	1.9
Swing Drive	2.8	0.74
Final Drive (each)	2.5	0.66
Hydraulic system (including tank)	105	28
Hydraulic tank	57	15

## 307B Dimensions

All dimensions are approximate. Machine dimensions are shown using a 1665 mm (5' 6") stick and 450 mm (18") shoes.



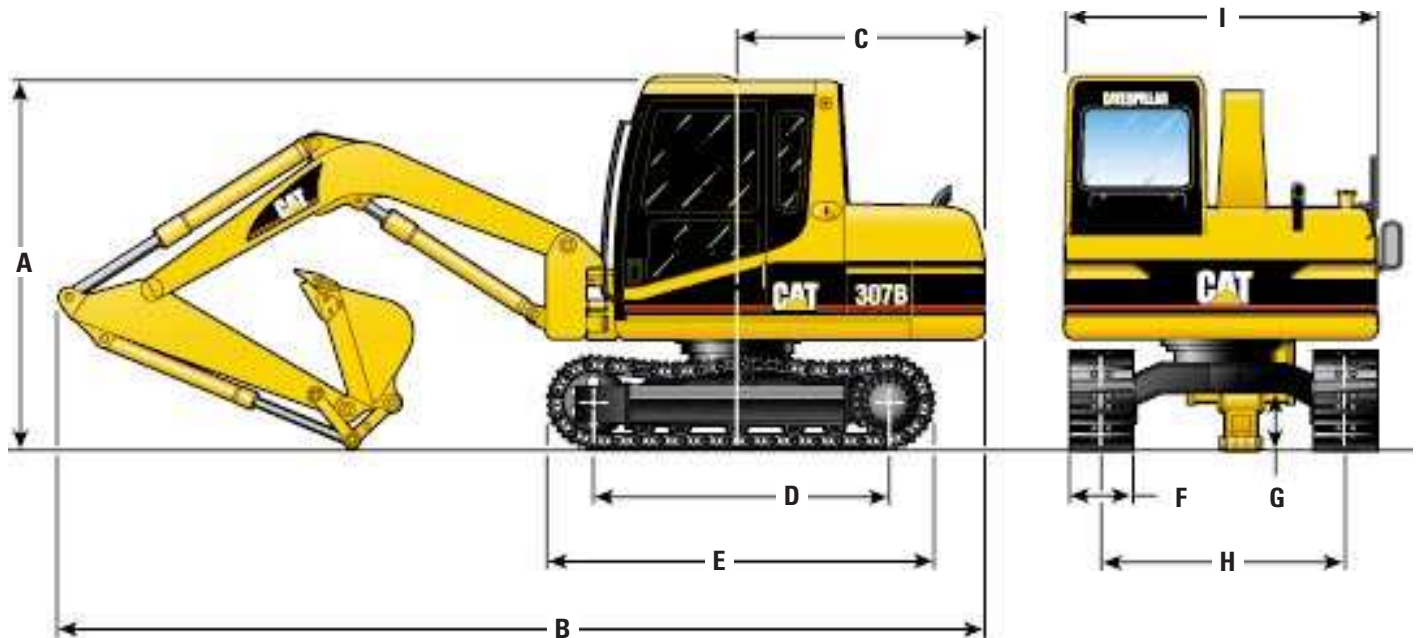
<b>A</b> Shipping height*	2630 mm (8' 8")
<b>B</b> Shipping length	6080 mm (19' 11")
<b>C</b> Tail swing radius	1750 mm (5' 9")
<b>D</b> Length to centers of rollers	2120 mm (6' 11")
<b>E</b> Track length	2760 mm (9' 1")
<b>F</b> Track shoe width	450 mm (18")
<b>G</b> Ground clearance	380 mm (15")
<b>H</b> Track gauge	1750 mm (5' 9")
<b>I</b> Transport width	2280 mm (7' 6")

\* - 2760 mm (8' 11") with 2210 mm (7' 3") stick (at transport position)



## 307B Swing Boom Dimensions

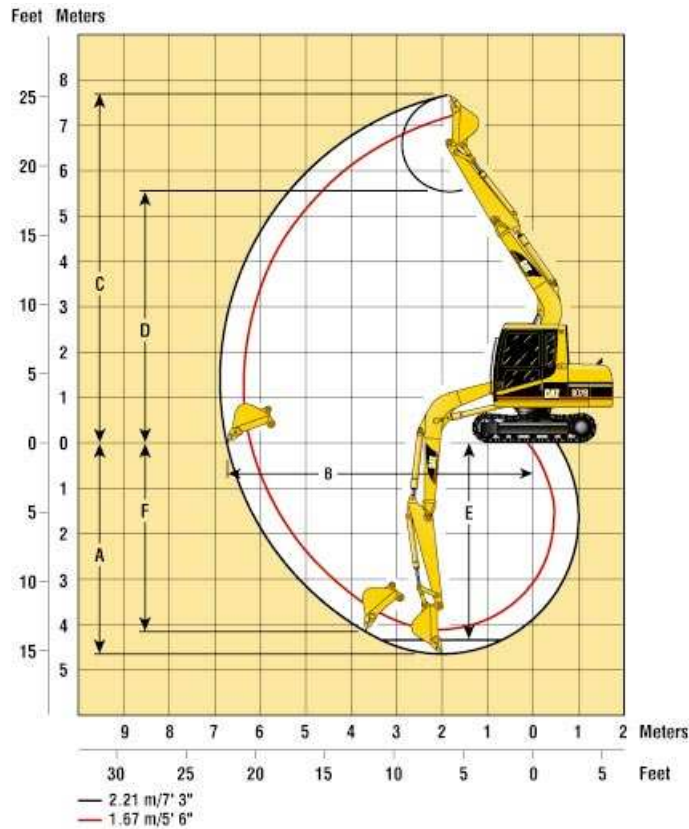
All dimensions are approximate. Machine dimensions are shown using a 1665 mm (5' 6") stick and 450 mm (18") shoes.



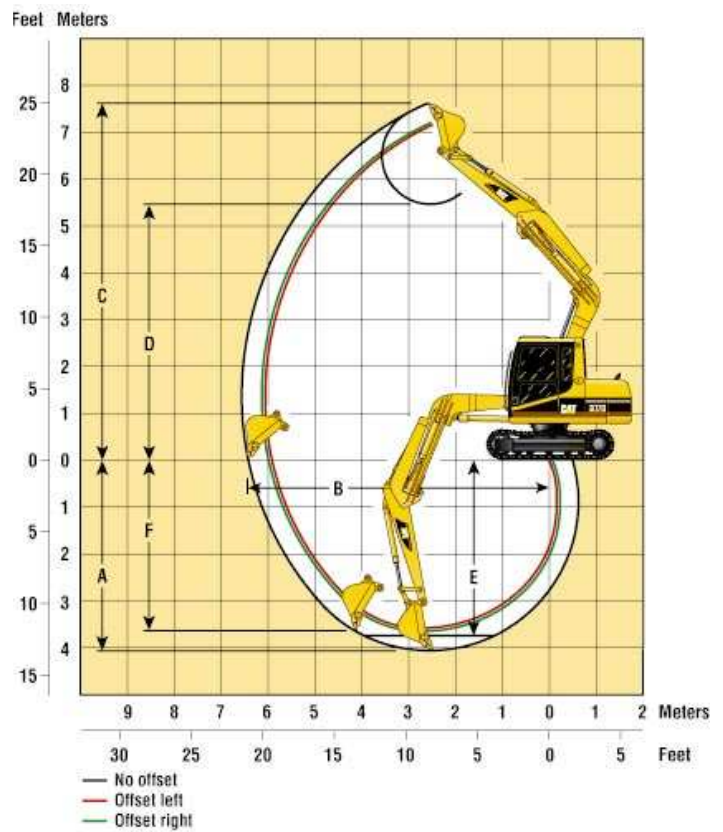
<b>A</b> Shipping height	2640 mm (8' 8")
<b>B</b> Shipping length	6730 mm (19' 11")
<b>C</b> Tail swing radius	1750 mm (5' 9")
<b>D</b> Length to centers of rollers	2120 mm (6' 11")
<b>E</b> Track length	2760 mm (9' 1")
<b>F</b> Track shoe width	450 mm (18")
<b>G</b> Ground clearance	380 mm (15")
<b>H</b> Track gauge	1750 mm (5' 9")
<b>I</b> Transport width	2280 mm (7' 6")

# 307B Working Ranges

## One-Piece Boom



## Parallel Offset Boom



## One-Piece Boom

Stick	1665 mm (5' 6") Stick	2210 mm (7' 3") Stick
<b>A</b> Maximum Digging Depth	4110 mm (13' 6")	4650 mm (15' 3")
<b>B</b> Maximum Reach at Ground Level	6200 mm (20' 4")	6720 mm (22' 1")
<b>C</b> Maximum Cutting Height	7290 mm (23' 11")	7690 mm (25' 3")
<b>D</b> Maximum Loading Height	5150 mm (16' 11")	5560 mm (18' 3")
<b>E</b> Digging Depth at 2440 mm (8') flat floor	3770 mm (12' 4")	4350 mm (14' 3")
<b>F</b> Maximum Vertical Wall Digging Depth	3640 mm (11' 11")	4160 mm (13' 8")

## Digging Forces

Stick	3600 kg (7940 lb)	3170 kg (6970 lb)
Bucket	4500 kg (9920 lb)	4500 kg (9920 lb)

## Parallel Offset Boom and 1665 mm (5' 6") Stick

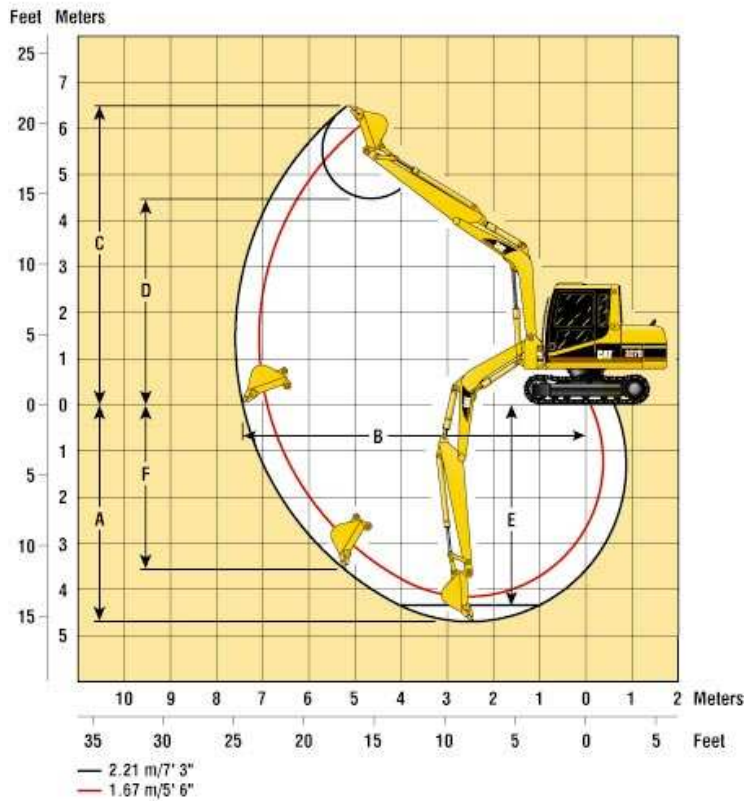
Boom Position	No Offset	Fully Offset Left	Fully Offset Right
<b>A</b> Maximum Digging Depth	4090 mm (13' 5")	3590 mm (11' 9")	3660 mm (12' 0")
<b>B</b> Maximum Reach at Ground Level	6420 mm (21' 1")	5910 mm (19' 5")	5980 mm (19' 7")
<b>C</b> Maximum Cutting Height	7600 mm (24' 11")	7160 mm (23' 6")	7220 mm (23' 8")
<b>D</b> Maximum Loading Height	5460 mm (17' 11")	5030 mm (16' 6")	5090 mm (16' 8")
<b>E</b> Digging Depth at 2440 mm (8') flat floor	3740 mm (12' 3")	3250 mm (10' 8")	3320 mm (10' 11")
<b>F</b> Maximum Vertical Wall Digging Depth	3630 mm (11' 11")	3130 mm (10' 3")	3200 mm (10' 6")

## Digging Forces

Stick	3600 kg (7940 lb)	3600 kg (7940 lb)	3600 kg (7940 lb)
Bucket	4500 kg (9920 lb)	4500 kg (9920 lb)	4500 kg (9920 lb)

# 307B Swing Boom Working Ranges

## Swing Boom



## Swing Boom

Stick	1665 mm (5' 6") Stick	2210 mm (7' 3") Stick
<b>A</b> Maximum Digging Depth	4160 mm (13' 8")	4700 mm (15' 5")
<b>B</b> Maximum Reach at Ground Level	6890 mm (22' 7")	7420 mm (22' 7")
<b>C</b> Maximum Cutting Height	6180 mm (20' 3")	6490 mm (21' 4")
<b>D</b> Maximum Loading Height	4160 mm (13' 8")	4450 mm (14' 7")
<b>E</b> Digging Depth at 2440 mm (8') flat floor	3760 mm (12' 4")	4340 mm (14' 3")
<b>F</b> Maximum Vertical Wall Digging Depth	3000 mm (9' 10")	3580 mm (11' 9")
<b>Digging Forces</b>		
Stick	3600 kg (7940 lb)	3000 kg (6610 lb)
Bucket	4500 kg (9920 lb)	4500 kg (9920 lb)



# 307B One-Piece Boom (Without Blade) Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front













Load Radius Over Side

**STICK** – 1665 mm (5' 6")

**SHOES** – 450 mm (18") triple grouser

**BUCKET** – 310 liter (.40 yd<sup>3</sup>)











		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				m ft		
												
6.0 m 20.0 ft	kg lb									*700 *1600	*700 *1600	3.70 11.62
4.5 m 15.0 ft	kg lb			*1800 *3900	*1800 *3900					*600 *1250	*600 *1250	5.25 17.07
3.0 m 10.0 ft	kg lb			*2300 *4950	*2300 *4950	1500 3200	1250 2600			*650 *1200	*650 *1200	5.93 19.40
1.5 m 5.0 ft	kg lb			2750 5850	2200 4700	1450 3050	1150 2500			*600 *1300	*600 *1300	6.08 19.97
Ground Line	kg lb			2550 5450	2050 4350	1350 2900	1100 2350			*700 *1500	*700 *1500	5.70 10.97
-1.5 m -5.0 ft	kg lb	*3700 *8350	*3700 *8350	2550 5400	2000 4300	1350 2900	1100 2350			*900 *2000	*900 *2000	4.93 16.10
-3.0 m -10.0 ft	kg lb			*2000 *4050	*2000 *4050					*1700 *3650	*1700 *3650	3.26 10.48

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

**STICK** – 2210 mm (7' 3")

**SHOES** – 450 mm (18") triple grouser

**BUCKET** – 230 liter (.30 yd<sup>3</sup>)

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				m ft		
												
6.0 m 20.0 ft	kg lb									*750 *1650	*750 *1650	4.57 14.60
4.5 m 15.0 ft	kg lb					*1450 *3200	1300 2750			*650 *1400	*650 *1400	5.85 19.05
3.0 m 10.0 ft	kg lb			*1900 *4100	*1900 *4100	1500 3250	1250 2650			*650 *1350	*650 *1350	6.45 21.12
1.5 m 5.0 ft	kg lb			2800 5950	2250 4800	1450 3050	1150 2500			*650 *1450	600 1300	6.59 21.64
Ground Line	kg lb			2550 5450	2050 4350	1350 2900	1100 2300			*750 *1650	650 1350	6.32 20.74
-1.5 m -5.0 ft	kg lb	*3050 *6800	*3050 *6800	2500 5300	1950 4200	1300 2800	1050 2250			*950 *2100	800 1700	5.57 18.21
-3.0 m -10.0 ft	kg lb	*4500 *9650	*4500 *9650	2550 5400	2000 4300					*1200 *2550	*1200 *2550	4.02 12.99

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

# 307B One-Piece Boom (Without Blade) Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front













Load Radius Over Side

**STICK** – 1665 mm (5' 6")

**SHOES** – 600 mm (24") triple grouser

**BUCKET** – 310 liter (.40 yd<sup>3</sup>)











		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				m ft
										
6.0 m	kg							*700	*700	3.70
20.0 ft	lb							*1600	*1600	11.62
4.5 m	kg			*1800	*1800			*600	*600	5.25
15.0 ft	lb			*3900	*3900			*1250	*1250	17.07
3.0 m	kg			*2300	*2300	1550	1250	*550	*550	5.93
10.0 ft	lb			*4950	*4950	3250	2700	*1200	*1200	19.40
1.5 m	kg			2800	2250	1450	1200	*600	*600	6.08
5.0 ft	lb			6000	4800	3100	2550	*1300	*1300	19.97
Ground	kg			2650	2100	1400	1150	*700	*700	5.78
Line	lb			5600	4450	3000	2400	*1500	*1500	18.97
-1.5 m	kg	*3700	*3700	2600	2050	1400	1150	*900	*900	4.93
-5.0 ft	lb	*8350	*8350	5500	4400	2950	2400	*2000	*2000	16.10
-3.0 m	kg			*2000	*2000			*1700	*1700	3.26
-10.0 ft	lb			*4050	*4050			*3650	*3650	10.48

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

**STICK** – 2210 mm (7' 3")

**SHOES** – 600 mm (24") triple grouser

**BUCKET** – 230 liter (.30 yd<sup>3</sup>)

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				m ft
										
6.0 m	kg							*750	*750	4.57
20.0 ft	lb							*1650	*1650	14.60
4.5 m	kg					*1450	1350	*650	*650	5.85
15.0 ft	lb					*3200	2850	*1400	*1400	19.05
3.0 m	kg			*1900	*1900	1550	1300	*650	*650	6.45
10.0 ft	lb			*4100	*4100	3300	2750	*1350	*1350	21.12
1.5 m	kg			*2800	2300	1450	1200	*650	650	6.59
5.0 ft	lb			*6000	4900	3150	2550	*1450	1350	21.64
Ground	kg			2600	2100	1400	1100	*750	650	6.32
Line	lb			5600	4450	2950	2400	*1650	1400	20.74
-1.5 m	kg	*3050	*3050	2550	2000	1350	1100	*950	800	5.57
-5.0 ft	lb	*6800	*6800	5450	4300	2900	2300	*2100	1750	18.21
-3.0 m	kg	*4500	*4500	2600	2050			*1200	*1200	4.02
-10.0 ft	lb	*9650	*9650	*5500	4400			*2550	*2550	12.99

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

# 307B One-Piece Boom (With Blade Down) Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front










Load Radius Over Side

**STICK** – 1665 mm (5' 6")

**SHOES** – 450 mm (18") triple grouser

**BUCKET** – 310 liter (.40 yd<sup>3</sup>)








		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				m ft
										
6.0 m	kg							*700	*700	3.70
20.0 ft	lb							*1600	*1600	11.62
4.5 m	kg			*1800	*1800			*600	*600	5.25
15.0 ft	lb			*3900	*3900			*1250	*1250	17.07
3.0 m	kg			*2300	*2300	*1850	1300	*550	*550	5.93
10.0 ft	lb			*4950	*4950	*4050	2800	*1200	*1200	19.40
1.5 m	kg			*3150	2350	*2100	1250	*600	*600	6.08
5.0 ft	lb			*6750	5000	*4550	2650	*1300	*1300	19.97
Ground Line	kg			*3500	2200	*2250	1200	*700	*700	5.78
	lb			*7600	4650	*4900	2550	*1500	*1500	18.97
-1.5 m	kg	*3700	*3700	*3250	2150	*2000	1200	*900	*900	4.93
-5.0 ft	lb	*8350	*8350	*7000	4600	*4050	2550	*2000	*2000	16.10
-3.0 m	kg			*2000	*2000			*1700	*1700	3.26
-10.0 ft	lb			*4050	*4050			*3650	*3650	10.48

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

**STICK** – 2210 mm (7' 3")

**SHOES** – 450 mm (18") triple grouser

**BUCKET** – 230 liter (.30 yd<sup>3</sup>)

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				m ft
										
6.0 m	kg							*750	*750	4.57
20.0 ft	lb							*1650	*1650	14.60
4.5 m	kg					*1450	1400	*650	*650	5.85
15.0 ft	lb					*3200	2950	*1400	*1400	19.05
3.0 m	kg			*1900	*1900	*1650	1350	*650	*650	6.45
10.0 ft	lb			*4100	*4100	*3550	2850	*1350	*1350	21.12
1.5 m	kg			*2800	2400	*1950	1250	*650	*650	6.59
5.0 ft	lb			*6000	5100	*4200	2700	*1450	*1450	21.64
Ground Line	kg			*3400	2200	*2200	1200	*750	700	6.32
	lb			*7350	4650	*4750	2500	*1650	1500	20.74
-1.5 m	kg	*3050	*3050	*3350	2100	*2150	1150	*950	850	5.57
-5.0 ft	lb	*6800	*6800	*7250	4500	*4600	2450	*2100	1850	18.21
-3.0 m	kg	*4500	*4500	*2600	2150			*1200	*1200	4.02
-10.0 ft	lb	*9650	*9650	*5500	4600			*2550	*2550	12.99

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.



# 307B One-Piece Boom (With Blade Down) Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front













Load Radius Over Side

**STICK** – 1665 mm (5' 6")

**SHOES** – 600 mm (24") triple grouser

**BUCKET** – 310 liter (.40 yd<sup>3</sup>)











		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				m ft
										
6.0 m	kg							*700	*700	3.70
20.0 ft	lb							*1600	*1600	11.62
4.5 m	kg			*1800	*1800			*600	*600	5.25
15.0 ft	lb			*3900	*3900			*1250	*1250	17.07
3.0 m	kg			*2300	*2300	*1850	1350	*550	*550	5.93
10.0 ft	lb			*4950	*4950	*4050	2850	*1200	*1200	19.40
1.5 m	kg			*3150	2400	*2100	1300	*600	*600	6.08
5.0 ft	lb			*6750	5150	*4550	2750	*1300	*1300	19.97
Ground Line	kg			*3500	2250	*2250	1200	*700	*700	5.78
	lb			*7600	4800	*4900	2600	*1500	*1500	18.97
-1.5 m	kg	*3700	*3700	*3250	2200	*2000	1200	*900	*900	4.93
-5.0 ft	lb	*8350	*8350	*7000	4750	*4050	2600	*2000	*2000	16.10
-3.0 m	kg			*2000	*2000			*1700	*1700	3.26
-10.0 ft	lb			*4050	*4050			*3650	*3650	10.48

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

**STICK** – 2210 mm (7' 3")

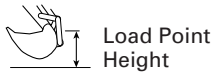
**SHOES** – 600 mm (24") triple grouser

**BUCKET** – 230 liter (.30 yd<sup>3</sup>)

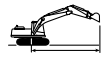
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				m ft
										
6.0 m	kg							*750	*750	4.57
20.0 ft	lb							*1650	*1650	14.60
4.5 m	kg					*1450	1400	*650	*650	5.85
15.0 ft	lb					*3200	3000	*1400	*1400	19.05
3.0 m	kg			*1900	*1900	*1650	1350	*650	*650	6.45
10.0 ft	lb			*4100	*4100	*3550	2900	*1350	*1350	21.12
1.5 m	kg			*2800	2450	*1950	1300	*650	*650	6.59
5.0 ft	lb			*6000	5250	*4200	2750	*1450	*1450	21.64
Ground Line	kg			*3400	2250	*2200	1200	*750	700	6.32
	lb			*7350	4800	*4750	2600	*1650	1550	20.74
-1.5 m	kg	*3050	*3050	*3350	2150	*2150	1150	*950	850	5.57
-5.0 ft	lb	*6800	*6800	*7250	4650	*4600	2500	*2100	1900	18.21
-3.0 m	kg	*4500	*4500	*2600	2200			*1200	*1200	4.02
-10.0 ft	lb	*9650	*9650	*5500	4750			*2550	*2550	12.99

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

# 307B Offset Boom (With Blade Down) Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

**STICK** – 1665 mm (5' 6")

**SHOES** – 600 mm (24") triple grouser

**BUCKET** – 310 liter (.40 yd<sup>3</sup>)

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				m ft
6.0 m	kg			*1700	*1700			*950	*950	4.09
20.0 ft	lb			*3700	*3700			*2050	*2050	12.96
4.5 m	kg			*1950	*1950	*1650	1350	*800	*800	5.51
15.0 ft	lb			*4200	*4200	*3250	2800	*1800	*1800	17.92
3.0 m	kg			*2400	*2400	*1800	1250	*800	700	6.15
10.0 ft	lb			*5150	*5150	*3850	2650	*1750	1500	20.12
1.5 m	kg					*1950	1150	*850	600	6.30
5.0 ft	lb			*6500	4500	*4250	2400	*1900	1350	20.66
Ground	kg			*3150	1850	*2050	1000	*1000	650	6.01
Line	lb			*6800	3950	*4350	2150	*2200	1400	19.70
-1.5 m	kg	*3100	*3100	*2750	1850	*1750	1000	*1200	800	5.19
-5.0 ft	lb	*6950	*6950	*5900	3900	*3750	2100	*2650	1800	16.98
-3.0 m	kg			*1600	*1600			*1200	*1200	3.59
-10.0 ft	lb			*3350	*3350			*2600	*2600	11.60

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

**STICK** – 1665 mm (5' 6")

**SHOES** – 450 mm (18") triple grouser

**BUCKET** – 310 liter (.40 yd<sup>3</sup>)

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				m ft
6.0 m	kg			*1700	*1700			*950	*950	4.09
20.0 ft	lb			*3700	*3700			*2050	*2050	12.96
4.5 m	kg			*1950	*1950	*1650	1350	*800	*800	5.51
15.0 ft	lb			*4200	*4200	*3250	2900	*1800	*1800	17.92
3.0 m	kg			*2400	*2400	*1800	1300	*800	700	6.15
10.0 ft	lb			*5150	*5150	*3850	2750	*1750	1550	20.12
1.5 m	kg					*1950	1150	*850	650	6.30
5.0 ft	lb			*6500	4600	*4250	2450	*1900	1400	20.66
Ground	kg			*3150	1900	*2050	1050	*1000	650	6.01
Line	lb			*6800	4100	*4350	2250	*2200	1450	19.70
-1.5 m	kg	*3100	*3100	*2750	1900	*1750	1050	*1200	850	5.19
-5.0 ft	lb	*6950	*6950	*5900	4000	*3750	2200	*2650	1850	16.98
-3.0 m	kg			*1600	*1600			*1200	*1200	3.59
-10.0 ft	lb			*3350	*3350			*2600	*2600	11.60

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

# 307B Swing Boom (Without Blade) Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front















Load Radius Over Side

**STICK** – 1665 mm (5' 6")

**SHOES** – 450 mm (18") triple grouser

**BUCKET** – 310 liter (.40 yd<sup>3</sup>)













		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				m ft
												
4.5 m	kg									*850	*850	5.93
15.0 ft	lb									*1800	*1800	19.27
3.0 m	kg					*1400	1350			*800	700	6.65
10.0 ft	lb					*3050	2900			*1750	1550	21.76
1.5 m	kg					1550	1250	1000	800	800	650	6.79
5.0 ft	lb			6150	4900	3350	2700	2100	1700	1750	1400	22.29
Ground	kg			2700	2150	1500	1200			850	700	6.44
Line	lb			5800	4600	3150	2550			1900	1500	21.12
-1.5 m	kg	*3400	*3400	2750	2150	1450	1200			1100	900	5.44
-5.0 ft	lb	*7600	*7600	5850	4600	3150	2500			2450	2000	17.75
-3.0 m	kg			2850	2300					2250	1800	3.49
-10.0 ft	lb			6150	4900					5150	4150	11.16

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

**STICK** – 2210 mm (7' 3")

**SHOES** – 450 mm (18") triple grouser

**BUCKET** – 230 liter (.30 yd<sup>3</sup>)

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				m ft
												
4.5 m	kg									*800	750	6.54
15.0 ft	lb									*1750	1650	21.31
3.0 m	kg							1000	850	750	600	7.17
10.0 ft	lb							2150	1750	1650	1300	23.49
1.5 m	kg					1550	1300	1000	800	700	550	7.31
5.0 ft	lb					3350	2750	2100	1650	1550	1200	23.98
Ground	kg			2700	2100	1450	1150	950	750	750	600	6.99
Line	lb			5800	4550	3100	2500	2000	1600	1600	1250	22.93
-1.5 m	kg	*2600	*2600	2650	2100	1400	1150			900	750	6.13
-5.0 ft	lb	*5750	*5750	5700	4450	3050	2400			2000	1600	20.03
-3.0 m	kg	*4800	*4800	2750	2150					1650	1350	4.24
-10.0 ft	lb	*10,800	*10,800	5900	4650					3750	3050	13.60

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.



# 307B Swing Boom (Without Blade) Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

**STICK** – 1665 mm (5' 6")

**SHOES** – 600 mm (24") triple grouser

**BUCKET** – 310 liter (.40 yd<sup>3</sup>)

Load Point Height	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Load Radius Over Front		m ft
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	
4.5 m 15.0 ft	kg lb								*850 *1800	*850 *1800	5.93 19.27
3.0 m 10.0 ft	kg lb				*1400 *3050	1400 2950			*800 *1750	700 1550	6.65 21.76
1.5 m 5.0 ft	kg lb		6200 4950	4950 3350	3350 2750	2750 2100	2100 1700	1000 800	800 650	650 22.29	6.79
Ground Line	kg lb		2750 5900	2150 4650	1500 3200	1200 2550			850 1900	700 1500	6.44 21.12
-1.5 m -5.0 ft	kg lb	*3400 *7600	*3400 *7600	2750 5900	2200 4650	1500 3150	1200 2550		1150 2500	900 2000	5.44 17.75
-3.0 m -10.0 ft	kg lb		2900 6200	2300 4950					2250 5200	1800 4150	3.49 11.16

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

**STICK** – 2210 mm (7' 3")

**SHOES** – 600 mm (24") triple grouser

**BUCKET** – 230 liter (.30 yd<sup>3</sup>)

Load Point Height	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Load Radius Over Front		m ft
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	
4.5 m 15.0 ft	kg lb								*800 *1750	750 1650	6.54 21.31
3.0 m 10.0 ft	kg lb						1050 2200	850 1750	750 1650	600 1350	7.17 23.49
1.5 m 5.0 ft	kg lb				1600 3400	1300 2750	1000 2100	800 1700	700 1550	550 1250	7.31 23.98
Ground Line	kg lb		2750 5850	2150 4600	1500 3150	1200 2550	950 2000	750 1600	750 1650	600 1300	6.99 22.93
-1.5 m -5.0 ft	kg lb	*2600 *5750	*2600 *5750	2700 5750	2100 4500	1450 3050	1150 2450		900 2000	750 1600	6.13 20.03
-3.0 m -10.0 ft	kg lb	*4800 *10,800	*4800 *10,800	2800 5950	2250 4700				1650 3800	1350 3050	4.24 13.60

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

# 307B Swing Boom (With Blade Down) Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front















Load Radius Over Side

**STICK** – 1665 mm (5' 6")

**SHOES** – 450 mm (18") triple grouser

**BUCKET** – 310 liter (.40 yd<sup>3</sup>)













		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				m ft
												
4.5 m 15.0 ft	kg lb									*850 *1800	*850 *1800	5.93 19.27
3.0 m 10.0 ft	kg lb					*1400 *3050	*1400 *3050			*800 *1750	750 1650	6.65 21.76
1.5 m 5.0 ft	kg lb			*7350 5200		*2150 *4600	1350 2900	*1700 *3150	850 1800	*900 *1900	700 1500	6.79 22.29
Ground Line	kg lb			*3150 *7300	2300 4900	*2750 *5950	1300 2750			*1050 *2300	750 1600	6.44 21.12
-1.5 m -5.0 ft	kg lb	*3400 *7600	*3400 *7600	*5400 *11,600	2300 4950	*2950 *6350	1250 2700			*1550 *3400	1000 2150	5.44 17.75
-3.0 m -10.0 ft	kg lb			*4150 *8650	2450 5200					*3250 *7250	1950 4400	3.49 11.16

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

**STICK** – 2210 mm (7' 3")

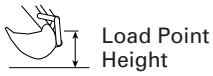
**SHOES** – 450 mm (18") triple grouser

**BUCKET** – 230 liter (.30 yd<sup>3</sup>)

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				m ft
												
4.5 m 15.0 ft	kg lb									*800 *1750	*800 *1750	6.54 21.31
3.0 m 10.0 ft	kg lb							*1200 *2650	900 1900	*800 *1700	650 1450	7.17 23.49
1.5 m 5.0 ft	kg lb					*1800 *3800	1350 2900	*1500 *3200	850 1800	*850 *1850	600 1300	7.31 23.98
Ground Line	kg lb			*3200 *7400	2300 4850	*2550 *5450	1250 2700	*1800 *3900	800 1700	*1000 *2150	650 1400	6.99 22.93
-1.5 m -5.0 ft	kg lb	*2600 *5750	*2600 *5750	*5050 *11,600	2250 4800	*2900 *6250	1200 2600			*1350 *2950	800 1700	6.13 20.03
-3.0 m -10.0 ft	kg lb	*4800 *10,800	*4800 *10,800	*4850 *10,250	2300 4950					*2250 *5050	1450 3250	4.24 13.60

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

# 307B Swing Boom (With Blade Down) Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

**STICK** – 1665 mm (5' 6")  
**BUCKET** – 310 liter (.40 yd<sup>3</sup>)

**SHOES** – 600 mm (24") triple grouser

Load Point Height	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Load Radius Over Front		m ft
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	
4.5 m 15.0 ft	kg lb								*850 *1800	*850 *1800	5.93 19.27
3.0 m 10.0 ft	kg lb				*1400 *3050	*1400 *3050			*800 *1750	800 1700	6.65 21.76
1.5 m 5.0 ft	kg lb		*7350 5350		*2150 *4600	1400 2950	*1700 *3150	900 1850	*900 *1900	700 1550	6.79 22.29
Ground Line	kg lb		*3150 *7300	2350 5050	*2750 *5950	1300 2800			*1050 *2300	750 1650	6.44 21.12
-1.5 m -5.0 ft	kg lb	*3400 *7600	*3400 *7600	*5400 *11,600	2350 5050	*2950 *6350	1300 2750		*1550 *3400	1000 2200	5.44 17.75
-3.0 m -10.0 ft	kg lb		*4150 *8650	2500 5300					*3250 *7250	1950 4500	3.49 11.16

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

**STICK** – 2210 mm (7' 3")  
**BUCKET** – 230 liter (.30 yd<sup>3</sup>)

**SHOES** – 600 mm (24") triple grouser

Load Point Height	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Load Radius Over Front		m ft
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	
4.5 m 15.0 ft	kg lb								*800 *1750	*800 *1750	6.54 21.31
3.0 m 10.0 ft	kg lb						*1200 *2650	900 1950	*800 *1700	700 1450	7.17 23.49
1.5 m 5.0 ft	kg lb				*1800 *3800	1400 3000	*1500 *3200	900 1850	*850 *1850	650 1350	7.31 23.98
Ground Line	kg lb		*3200 *7400	2350 5000	*2550 *5450	1300 2750	*1800 *3900	850 1750	*1000 *2150	650 1400	6.99 22.93
-1.5 m -5.0 ft	kg lb	*2600 *5750	*2600 *5750	*5050 *11,600	2300 4900	*2900 *6250	1250 2650		*1350 *2950	800 1750	6.13 20.03
-3.0 m -10.0 ft	kg lb	*4800 *10,800	*4800 *10,800	*4850 *10,250	2350 5100				*2250 *5050	1450 3350	4.24 13.60

\* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.



---

## Standard Equipment

307B and 307B Swing Boom. Standard and optional equipment may vary. Consult your Caterpillar Dealer for specifics.

---

Alternator, 35-amp	Opening front window	Track guiding guards, idlers
Boom lowering device (accumulator)	Radio mount, with 12-volt converter	Two-speed travel
Boom drift reducing valve	Removable lower windshield with storage bracket inside cab	Windows:
Brake, automatic swing holding	Roof hatch	Main windshield wiper and washer
Cab, sound suppressed, includes:	Seat belt	Right and rear windows, polycarbonate
Antenna	Travel control levers	Sliding door window, tempered glass
Ash tray	Counterweight	Windshield, two-piece:
Cigar lighter	Door and cap locks, one key	Upper, retractable laminated glass
Coat hook	Fully opening rear hood	Lower, tempered glass
Dial-type throttle	Hydraulic valve port, auxiliary	
Floor mat	Light:	
Horn, front	Frame, right side	
Hydraulic system neutralizing lever	Mirror, right-hand side	
Joysticks, pilot-operated	One touch low idle	
KAB T1P seat w/o suspension, armrests, or headrest	Power Mode Selector	
Lighting, interior	Reverse swing damping valve	
Literature compartment	Straight travel circuit	
Monitoring system	Tool box	
	Track, 450 mm (18") shoes	

**NOTE:** Standard items listed above for both 307B and 307B Swing Boom versions are not always identical

---

## Optional Equipment

Available on both 307B and 307B Swing Boom unless otherwise noted. Optional equipment may vary. Consult your Caterpillar Dealer for specifics.

---

Air conditioner	Heater	Radio, AM/FM Stereo
Alarm, travel*	Hydraulic arrangements, auxiliary:	Side cutters
Blade:	Single-function capability	Seats, suspension:
2300 mm (7' 6")	Double-function capability	KAB 525
2400 mm (7' 10")	Combined single- and double-function capability	Headrest, standard seat or KAB 525
Boom, lowering control device	Two-pump flow capability	Starting kit, cold weather
Boom, power offset**	Hydraulic lines, auxiliary:	Stick:
Boom, one-piece	Sticks	2210 mm (7' 3")
Buckets, see page 12	Boom	1665 mm (5' 6")
Bucket linkage	Lights:	Track shoes, see page 13
Cigar lighter	Boom, right	Travel pedals
Control Pattern Changer SAE/BHL	Working, cab-mounted (2)	Water separator, fuel line
Cooling package, high ambient	Mirror, cab left	
Guards:	Power Supply, 12V 5Amp	
Heavy-duty, swivel and bottom	Pump, fuel priming, electric	
Vandalism protection		

**NOTE:** Optional items listed above for both 307B and 307B Swing Boom versions are not always identical

\* - Required in USA and Canada

\*\* - Only available on 307B

# 307B & 307B Swing Boom Hydraulic Excavator

AEHQ5318 (6-98)

[www.CAT.com](http://www.CAT.com)  
© 1998 Caterpillar  
Printed in U.S.A.

Materials and specifications are subject to change without notice.



*Courtesy of MachineMarket*