

365B L

Hydraulic Excavator

CAT[®]



7.8 m (25'7") Reach Boom, 3.6 m (11'10") Stick, 900 mm (36")
Track, and 1545 mm (60") 2.7 m³ (3.6 yd³) GP Bucket

Operating Weight 67 630 kg 149,000 lb

Cat[®] 3196 ATAAC Diesel Engine

Flywheel Power 287 kW 385 hp

Travel Speed (maximum) 4.1 km/hr 2.6 mph

Featured machines in the photos may include optional equipment.

365B L 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**

Electronic Control System with VIDS (Vital Information Display 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**

Service and Maintenance

Fast, easy service with advanced filtration, filter access and electronic diagnostics for increased productivity. **pg. 7**

Outstanding performance.

High level of sustained production, higher deep trenching and pipe-laying performance, improved reliability and durability increase your productivity and lower your operating costs.



Hydraulics

Proven PPPC (Proportional Priority Pressure Compensated) system with state-of-the-art electronic control.

pg. 8

Engine

The 365B L is powered by the Cat 3196 Engine which complies with future worldwide emission requirements. This engine is electronically controlled for high efficiency. **pg. 9**

Structures

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

Undercarriage

Caterpillar designed excavator undercarriage is stable, durable and low maintenance. **pg. 11**

Booms, Sticks and Attachments

Two booms and five sticks 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. **pg. 12**

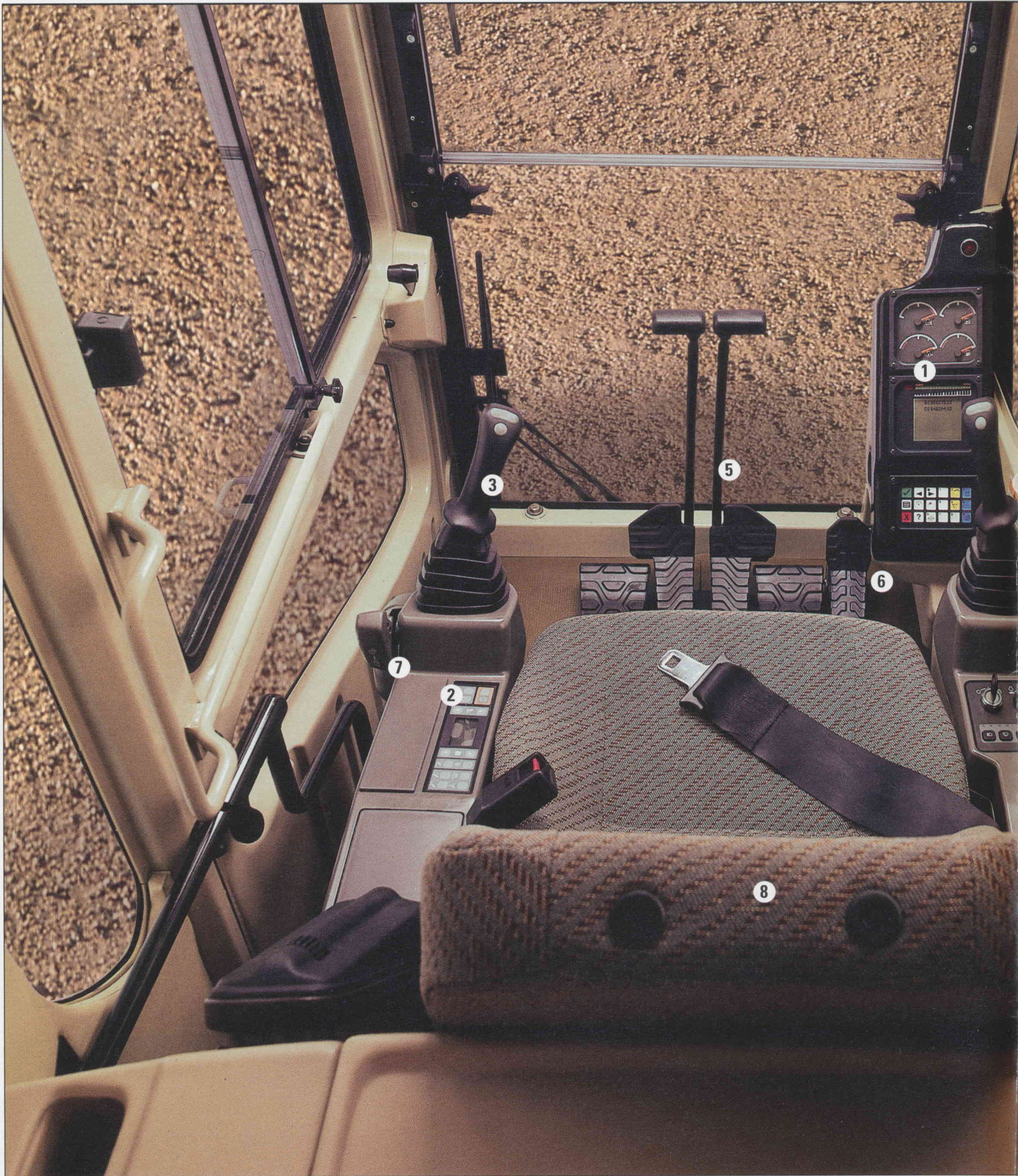
Buckets

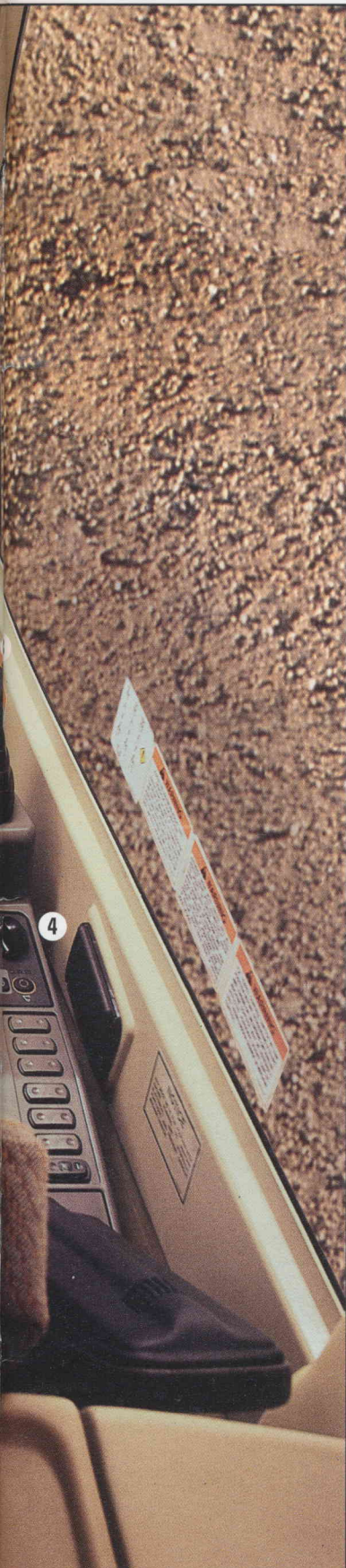
A wide variety of bucket types, aggressive bucket designs, and larger capacity bucket options take advantage of the 365B's powerful digging forces and stable base for improved productivity. **pg. 13**



Operator Station

Designed for comfort and ease of operation.





The work station is designed to be quiet and comfortable for the operator assuring high productivity during a long work day. Seat and console adjustments allow for proper fitting to the operator. A positive pressure, filtered, highly efficient ventilation system is provided.

Excellent viewing area through large, wide windows. A large skylight provides upward visibility. Both lower and upper portions of the front windshield can be easily stored in an overhead position. A sliding window on the cab door allows convenient communication between the operator and nearby workers. Upper and lower windshield wipers and washers are included as standard equipment to assure good visibility for the operator in wet or dusty conditions. The standard sunshade can be used to reduce the sunlight entering either the skylight or the upper windshield. The cab has extra height and length for increased operator space and is designed to allow direct mounting of the optional falling objects guard recommended for applications involving overhead operation. It is mounted to the frame with rubber mounts for reduced sound and vibration transmission.



- 1 Caterpillar designed electronic control system uses VIDS (Vital Information Display System)** as the interface between the machine and the operator or the serviceman. VIDS includes an analog gauge section, a display screen and a keypad (refer to Electronic Control System on page 6).
- 2 Automatic climate control** is standard and maintains constant temperature in the cab regardless of outside conditions.
- 3 Electronic joystick controls** have low lever effort and eliminate pilot lines. Control pattern can be changed electronically to suit operator preference. The operator can choose a level of gain/response from quicker and more productive to slower and more precise using a button on the console to optimize operation for different applications.
- 4 Engine speed dial** has ten settings for simple, precise speed setting. The selected engine speed setting shows on the VIDS display screen.
- 5 Electronic hand or foot actuated travel controls** allow the operator to move the excavator while operating the equipment. Hand levers are easily removable.
- 6 Optional straight travel pedal.** Straight travel pedal provides forward or reverse straight line travel with a single pedal movement. Steering adjustments can be made by using the 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 Cat suspension seat** includes a wide range of comfort features including fore/aft, height and weight adjustments. Also included are lumbar support, wide adjustable armrests, and a retractable seat belt.

Electronic Control System

Manages the engine and hydraulics for maximum performance.

Electronic control system utilizes three controllers connected by Cat Data Link to manage the engine and hydraulics for maximum productivity and efficiency:

- ADEM II (Advanced Diesel Engine Module) controller for engine
- Pump-Valve Controller
- VIDS (Vital Information Display System) controller

Both system and components are Caterpillar designed and built for perfect integration to optimize machine performance.

Electronic joysticks provide features not possible with hydraulic pilot valves:

- Eliminate pilot lines in cab for quieter operator environment
- Simple pattern change through programming (consult your Caterpillar dealer)
- Operator selectable gain/response to suit application
 - Quicker for more production
 - Slower for more precision
 - Three settings preset - 21 available

VIDS (Vital Information Display System) is the link between the machine and the operator or serviceman.

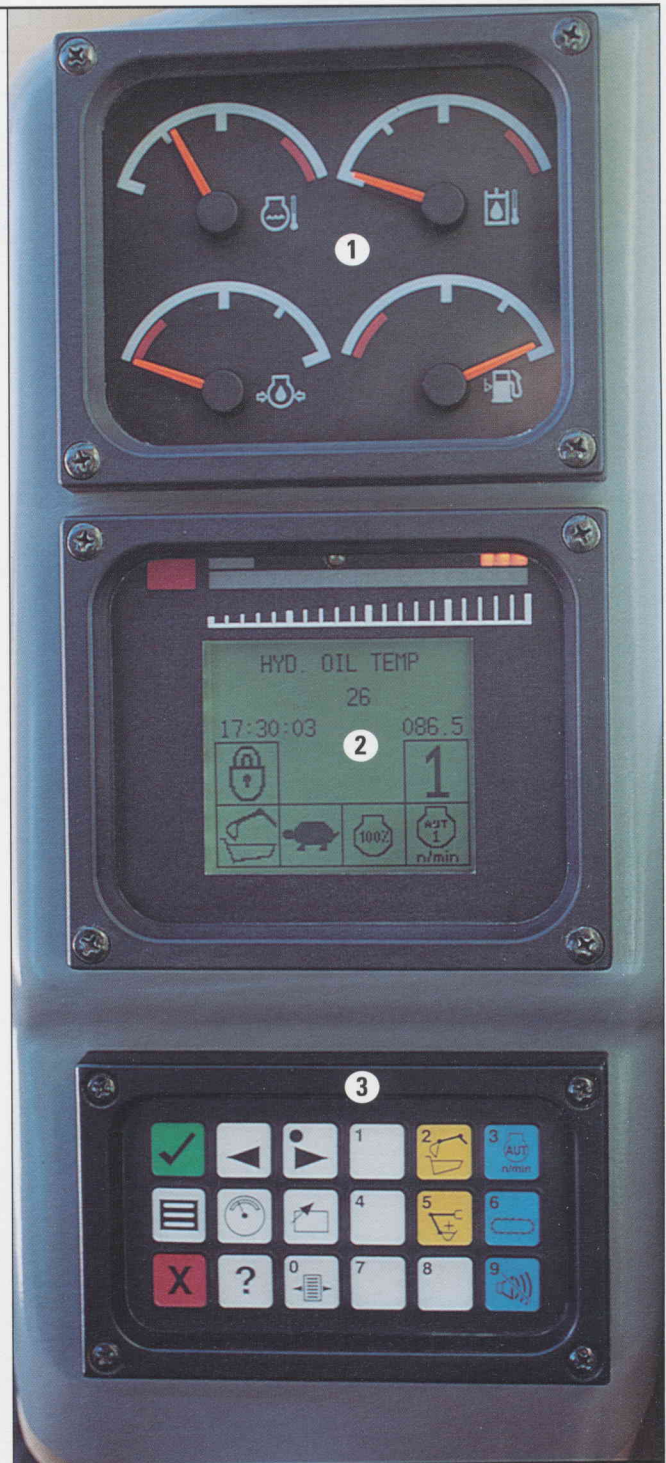
1 Analog gauge displays information requiring frequent checking

- Fuel level
- Engine oil pressure
- Hydraulic oil temperature
- Engine coolant temperature

2 Message center screen displays vital information on machine conditions.

- Display shows graphic icons plus written messages in operator's choice of 16 languages
- Displayed information includes:
 - Warnings about machine abnormalities
 - Machine operating conditions such as engine speed setting, auto engine speed mode selected, work mode selected, travel speed mode selected, engine operation hours, time clock, etc.
 - Universal gauge depicts any of over 100 machine conditions such as temperatures, pressures and voltages both as digital value and as a bar graph
 - Service codes to allow the serviceman to quickly diagnose and rectify problems

3 Keypad allows operator to select machine operation conditions and to set view preferences.



Service and Maintenance

Simplified service and maintenance features save time and money.

Service intervals extended to reduce maintenance costs.

- Engine oil, oil filter and fuel filters at 500 hr.
- Optional fine filtration system allows hydraulic oil changes at 5000 hr.

Hydraulic capsule filters are mounted outside the tank to prevent spills and system contamination during replacement.

Oil sample and pressure ports provide easy checking of machine condition.

Service points centrally located with easy access to facilitate routine maintenance. Engine oil filter is in pump compartment.

Pilot hydraulic system filter keeps contaminants away from the pilot system.

A swing and travel motor case drain filter keeps contaminants from returning to the tank.

Donaclone®* precleaner is standard to extend the service interval of the main air cleaner.

Radial seal main air cleaner has double layered filter element for more efficient filtration. No tools are required to change the element. Operator is alerted to clogged condition by a message on VIDS.

Environmentally sound features help protect the environment.

- Optional hydraulic tank shutoff valve reduces hydraulic spills during repair service.
- The hydraulic system is adaptable to biodegradable oil to reduce environmental impact.

* Donaclone® is a registered trademark of Donaldson Company, Inc.



Water separator removes water from fuel even when under pressure and is located in the battery compartment for easy access.

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

Electronic System Control has diagnostic capabilities for Cat Dealers' use. A single connection point allows Electronic Technician (ET) to communicate with all machine controllers.

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



Hydraulics

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



Load sensing PPPC (Proportional Priority Pressure Compensation) system now with Caterpillar developed Hydrac electronic actuation combines a proven system with state-of-the-art electronic control for high efficiency and excellent controllability.

- Cylinder speed is directly related to operator's movement of joystick from feathering to full speed.
- Flow to cylinders during multifunctional operation is directly controlled by the operator and is not dependent on loads.
- Controller reduces pump output to minimum to save power when joysticks are in neutral position.

Large, heavy-duty main pumps with separate swing pump provide high speeds and full time swing priority.

Heavy lift feature is standard and allows lifting of heavy objects with precision.

Auxiliary valve is standard for use with optional control arrangements to operate tools such as hammers, shears, etc. Maximum flow can be set by ET (Electronic Technician).

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

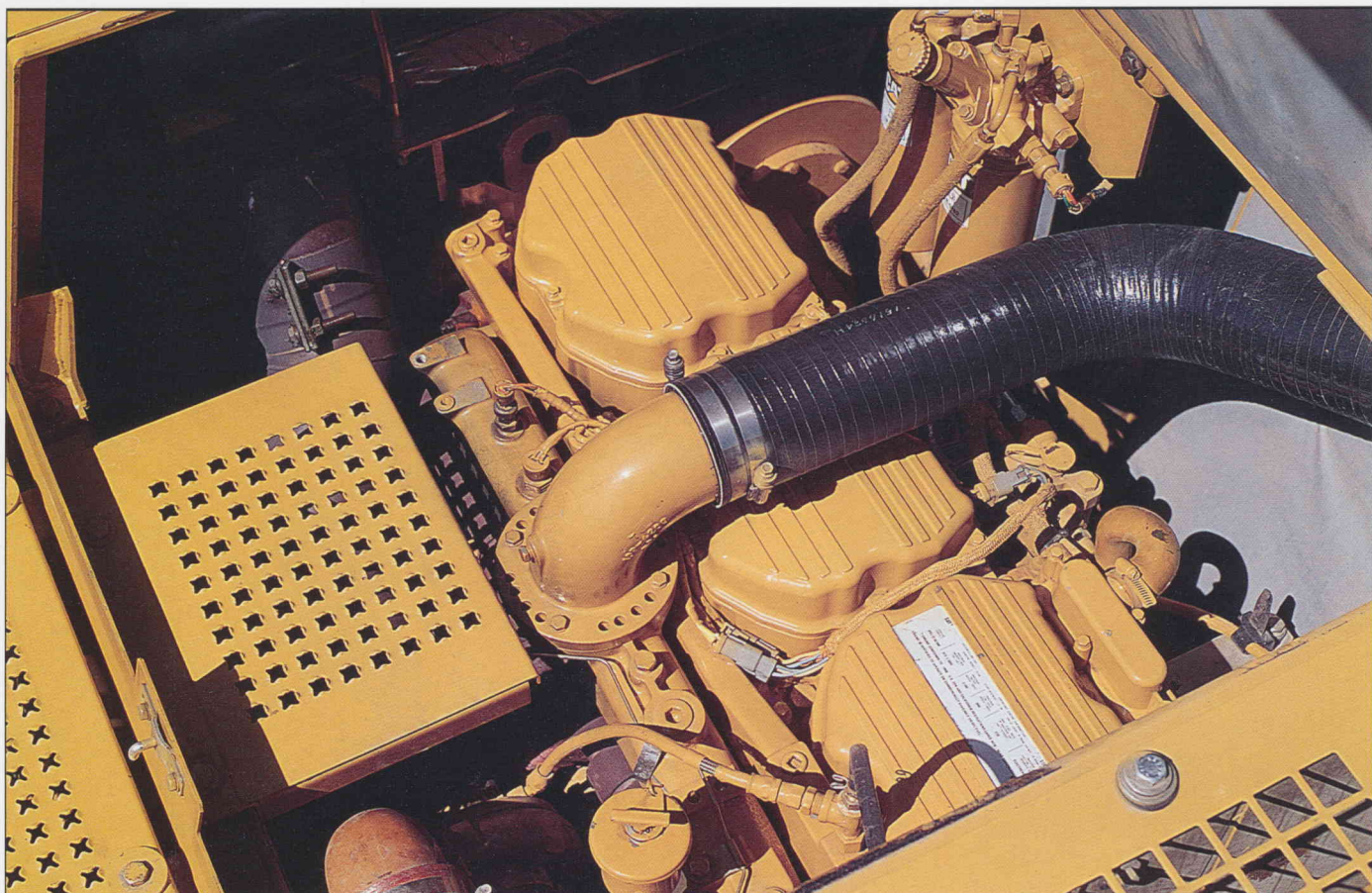
Cat's XT5 and XT6 hose used in high pressure circuits to meet the critical flexibility and strength demands of today's hard working hydraulic systems.

Swing dampening valves reduce swing wag and produce smooth swing stops.

Biodegradable hydraulic oil is available as an option.

Cat 3196 ATAAC Engine

Built for power, reliability, economy and low emissions.



Innovative Cat 3196 ATAAC diesel engine delivers large-engine performance from a compact engine design. The six-cylinder 287 kW (385 hp) engine is turbocharged and air-to-air aftercooled. With high horsepower and low displacement, this engine provides excellent fuel economy and durability that can significantly reduce operating costs.

Advanced Diesel Engine Module (ADEM II) fuel system controls the engine for optimal fuel injection, increased fuel efficiency, longer component life. The engine is fully compliant with EPA Tier II emission regulations.

Caterpillar state-of-the-art electronically controlled, computer-actuated unit injection fuel system has high injection pressure for complete fuel combustion, more efficient fuel use and reduced emissions. The 175 695 kPa (25,500 psi) injection pressure system provides dependable cold-starting performance. The dual-filter system reduces component wear.

Two-piece articulated pistons with forged steel tops withstand higher cylinder pressures.

Dual cooling jets keep ring temperatures low for long ring and liner life with excellent oil control.

High capacity cooling system allows operation in ambient temperatures up to 52°C (125°F).

Separate cooling system with hydrostatically driven fan provides quiet engine operation and reduced fuel consumption during cooler ambient conditions.

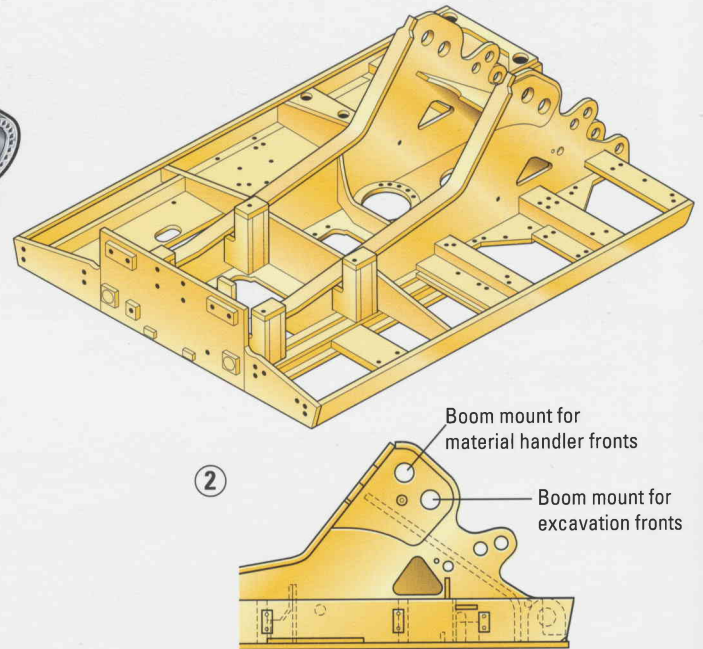
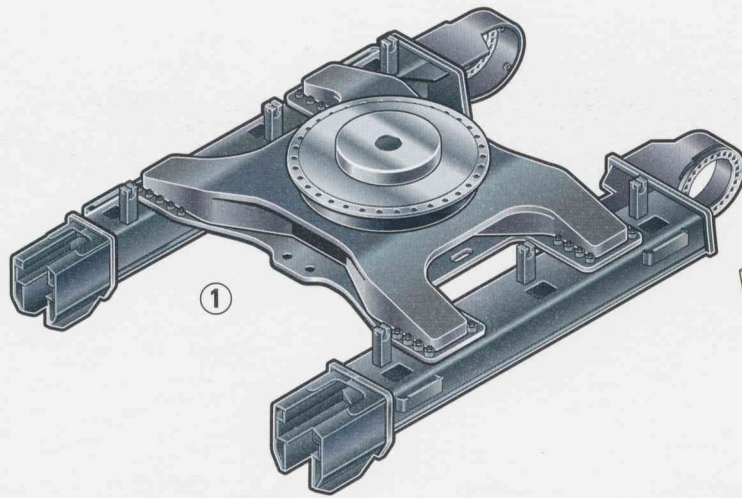
Four valves per cylinder for superior heat rejection. Valve area equals that of an engine with a 40% larger displacement. Valves and unit injection system are camshaft-actuated for precision timing.

Blocks and heads are Caterpillar designed, cast and machined to meet Caterpillar quality standards.

Extended Life Coolant/Antifreeze offers better protection over a longer period of time, lowers operating costs, requires less maintenance and is environmentally responsible and recyclable.

Structures

The 365B structural components are the backbone of the machine's durability.



1 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.
- Robot welding ensures consistent, high-quality welds throughout the manufacturing process.

Variable Gauge (VG) undercarriage is standard providing a wide, stable base for lifting, or a narrow gauge for reduced shipping width.

- Roller frames are attached with 36 large bolts to assure a rigid connection.

Robot-welded track roller frames use a fabricated U-section of thick steel plates for the top portion with a flat bottom plate where the rollers mount for increased strength and stiffness.

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

- 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.
- Reinforced lift cylinder and swing drive mounts increase structure durability in rock and quarry applications.
- A second boom mounting location provides high lifting forces for material handling fronts without the need for complicated adapters.

Undercarriage

Durable undercarriage absorbs stresses and provides excellent stability.



Caterpillar designed and built undercarriage components are purposely oversized to offer heavy-duty performance and durability.

Strutted track links are sealed for long life. Three choices of shoe width are available to suit the application. All are heavy duty type with 20.5 mm (.81") thick webs.

Track rollers, carrier rollers and idlers are sealed and lubricated for excellent service life.

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

Smooth autoshifting two-speed travel motors offer top travel speeds and plenty of pull on slopes or turns. Counterbalance valves help prevent overspeeding during downhill travel. Line relief valves are shockless type for extra smooth stops.

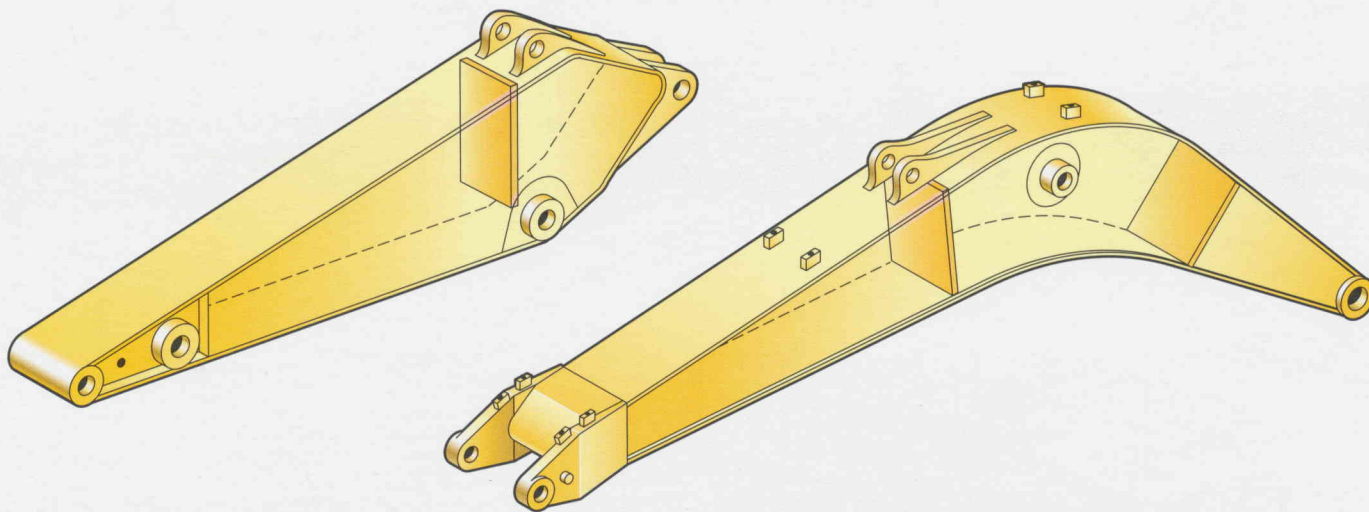
Triple-reduction, planetary final drives are compact yet durable.

Heavy guards protect the travel motors against damage. Hoses are routed inside the carbody to minimize exposure.

Long (L) undercarriage is standard to maximize stability and lifting capacity. Long, wide and sturdy undercarriage offers a stable work platform.

Booms, Sticks and Attachments

The 365B 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. Choose from two booms and five sticks, plus a wide selection of buckets and attachments. The 365B offers a large combination of reach and digging forces for optimum versatility.

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

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.
- Internal baffle plates are incorporated to reduce stress and increase life.
- All booms and sticks are stress relieved to maximize fatigue life and durability, while minimizing weight for improved performance.

The Reach Boom (R) 7.8 m (25'7") features an optimum design that maximizes digging envelopes with three stick choices.

The Mass Excavator Boom (M) 6.59 m (21'7") maximizes productivity. The M Boom, used with either of two sticks, offers significantly higher digging forces and allows the use of larger buckets.

Reach Sticks:

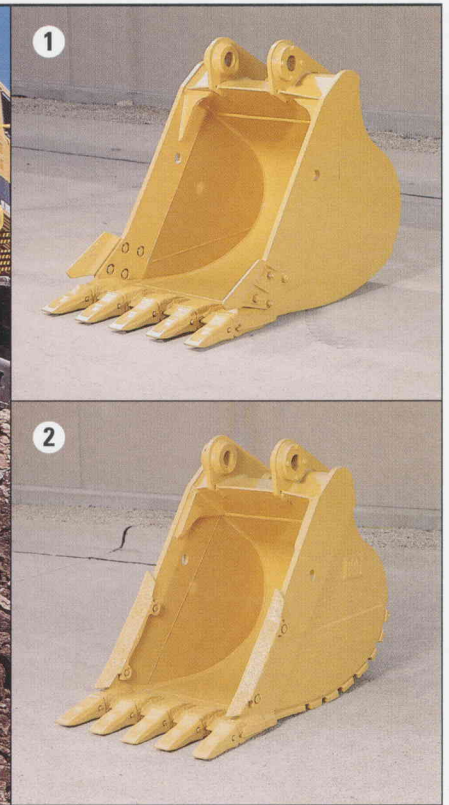
- All reach sticks accept V-family buckets and bucket linkage.
- The R4.67 m (15'4") stick gives the largest working envelope and is best suited to narrower buckets.
- The R3.6 m (11'10") stick offers the most versatility and is suited to all types of applications and bucket capacities.
- The R2.84 m (9'4") stick has a good digging envelope and handles large bucket sizes. Provides good stability for hammer work.

Mass Sticks:

- All mass excavation sticks accept W-family buckets and bucket linkage.
- The M3.0 m (9'10") stick provides a limited digging envelope with large bucket capacity and high force levels.
- The M2.57 m (8'5") stick is intended for mass excavation applications with very large buckets with high force requirements.

Buckets

Extensive selection of buckets helps optimize machine performance.



Caterpillar buckets increase service life and optimize performance.

- High strength and heat treated steel in high wear areas.
- Dual radius design for increased heel clearance and reduced wear.
- V-family buckets include a lift eye.

General Purpose (GP) and Excavation (E) Buckets for digging in soft to hard ground with low to moderate abrasive materials.

1 Heavy Duty (HD) and Extreme Excavation (EX) Buckets for digging in moderate to hard abrasive materials. Differences from GP buckets are:

- Thicker cutting edges and thicker bottom and side wear plates improve performance in demanding applications.

2 Heavy Duty Rock (HDR) and Rock (R) Buckets for digging in fragmented rock, frozen ground, caliche and highly abrasive materials. Differences from HD buckets are:

- Additional, thicker wear plates extend beyond side plates for corner and rear dent protection and improved durability.
- Larger side plates provide additional dent protection.

Caterpillar Ground Engaging Tools (GET) include a variety of side cutters, sidebar protectors, tip options and adapters to match operating conditions.

Complete Customer Support

Cat dealer services help 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 down time. Save money with remanufactured parts. You receive the same warranty and reliability as new products at cost savings of 40 to 70 percent.

Engine

Caterpillar 3196 turbocharged and air-to-air aftercooled diesel engine.

Ratings at 2000 rpm*	kW	hp
Net power	287	385

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

Net power	kW	hp
Caterpillar	287	385
ISO 9249	287	385
SAE J1349	287	385
EEC 80/1269	287	385

Dimensions

Bore	130 mm	5.12 in
Stroke	150 mm	5.91 in
Displacement	12 liters	730 in ³

*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 needed up to 2300 m (7,500 ft) elevation.

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

Hydraulic System

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

Main System

Maximum flow		
Equipment pumps	2 x 400 liters/min	(2 x 106 gpm)
Swing pump	357 liters/min	(94 gpm)
Maximum pressure		
Equipment – normal	32 000 kPa	(4640 psi)
Equipment – heavy lift	35 000 kPa	(5080 psi)
Travel	35 000 kPa	(5080 psi)
Swing	28 000 kPa	(4060 psi)

Pilot System

Maximum flow	90 liters/min	(24 gpm)
Maximum pressure	4120 kPa	(600 psi)

Cylinders, Bore and Stroke

Boom (2)	180 x 1792 mm	(7.1" x 70.6")
Stick (1)	200 x 2118 mm	(7.9" x 83.4")
Bucket (1)		
V family	180 x 1443 mm	(7.1" x 56.8")
W family	200 x 1457 mm	(7.9" x 57.4")

Service Refill Capacities

	L	Gallons
Fuel Tank	800	211
Cooling System	95	25
Engine Oil	54	14.3
Swing Drive (each)	12	3.2
Final Drive (each)	15	4
Hydraulic system (including tank)	670	177
Hydraulic tank	310	82

Swing Mechanism

Hydrostatic with independent planetary reduction.

Ratings

Swing torque	204.5 kN·m	150,850 lb ft
Swing speed		6.5 rpm

Features

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

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 deactivates electronic joysticks, travel controls and electrical power for engine starting circuit
- control pattern can be changed through VIDS to suit operator preferences.

Track

Caterpillar designed and built track-type long undercarriage. Heavy duty shoes are 20.9 mm (.82") thick.

Track width

standard 900 mm (36") double grouser
 optional 750 mm (30") double grouser
 optional 650 mm (26") double grouser

Ground clearance 840 mm (33")*

Number of shoes each side 47

Number of rollers each side 8

Number of carrier rollers each side 3

* Ground clearance shown is for hard surfaces.
 Subtract 50 mm (2") when grousers penetrate soil.

Steering

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

Controls

- controls are electronic for reduced efforts and precise movement
- left pedal and lever control left track; right pedal and lever control right track
- optional straight travel pedal drives both tracks forward or reverse at the same speed; steering adjustments can be made by modulating right or left pedal

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 SAE J1356 Feb 88 and ISO 3449-1984 specifications.

Note:

When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 MAY90, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.

Drive

Drive system is fully hydrostatic.

Ratings

Maximum drawbar pull	462 kN	103,820 lb
Maximum travel speed	4.1 km/h	2.6 mph

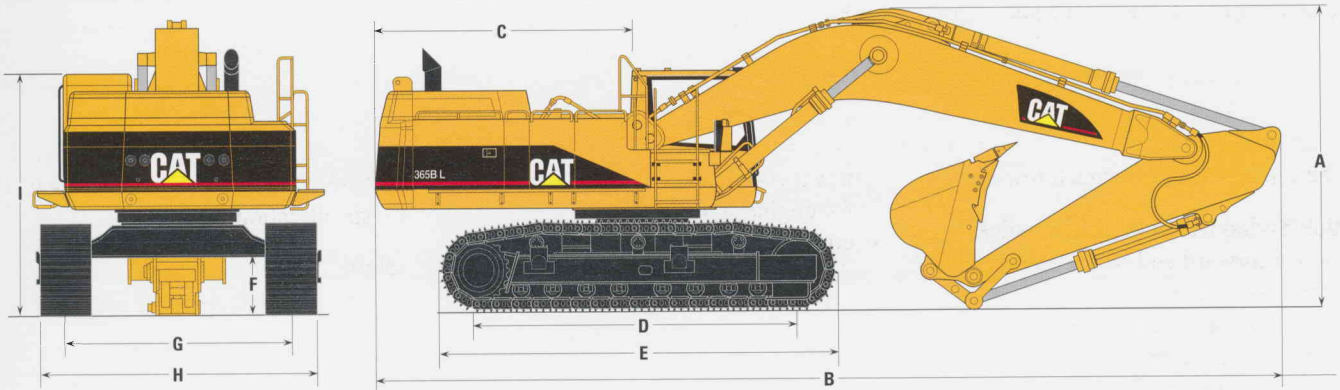
Operating Weight* and Ground Pressure

Configuration	900 mm (36")				750 mm (30")				650 mm (26")			
	Weight		Ground Pressure		Weight		Ground Pressure		Weight		Ground Pressure	
	kg	lb	kPa	psi	kg	lb	kPa	psi	kg	lb	kPa	psi
7.8 m (25'7") reach boom, 1545 mm (60") bucket												
R4.67 m (15'4") stick	68 100	150,040	72.7	10.55	66 910	147,420	85.7	12.43	66 260	145,990	97.9	14.21
R3.6 m (11'10") stick	67 630	149,000	72.2	10.47	66 440	146,380	85.1	12.35	65 790	144,950	97.2	14.11
R2.84 m (9'4") stick	67 610	148,955	72.1	10.47	66 420	146,335	85.0	12.34	65 770	144,905	97.2	14.10
6.59 m (21'7") mass boom, 2250 mm (89") bucket												
M3.0 m (9'10") stick	70 340	154,900	75.0	10.89	69 150	152,280	88.5	12.85	68 500	150,850	101.2	14.69
M2.57 m (8'5") stick	70 160	154,500	74.9	10.86	68 970	151,880	88.3	12.82	68 320	150,450	100.9	14.65

* Operating weight includes full fuel tank and 75 kg (165 lb) operator

Dimensions

All dimensions are approximate.



Stick	Reach Boom 7.8 m (25'7")			Mass Boom 6.59 m (21'7")	
	R4.67 (15'4")	R3.6 (11'10")	R2.84 (9'4")	M3.0 (9'10")	M2.57 (8'5")
A Shipping Height	5020 mm (16'6")	4450 mm (14'7")	4160 mm (13'8")	4550 mm (14'11")	4470 mm (14'8")
B Shipping Length	13 150 mm (43'2")	13 290 mm (43'7")	13 310 mm (43'8")	12 110 mm (39'9")	12 160 mm (39'11")
C Tail Swing Radius	3995 mm (13'1")	3995 mm (13'1")	3995 mm (13'1")	3995 mm (13'1")	3995 mm (13'1")
D Length to Centers of Rollers	4705 mm (15'5")	4705 mm (15'5")	4705 mm (15'5")	4705 mm (15'5")	4705 mm (15'5")
E Track Length	5860 mm (19'3")	5860 mm (19'3")	5860 mm (19'3")	5860 mm (19'3")	5860 mm (19'3")
F Ground Clearance	840 mm (33")	840 mm (33")	840 mm (33")	840 mm (33")	840 mm (33")
G Track Gauge (shipping)*	2750 mm (9'0")	2750 mm (9'0")	2750 mm (9'0")	2750 mm (9'0")	2750 mm (9'0")
H Transport Width**	3500 mm (11'6")	3500 mm (11'6")	3500 mm (11'6")	3500 mm (11'6")	3500 mm (11'6")
I Cab Height	3630 mm (11'11")	3630 mm (11'11")	3630 mm (11'11")	3630 mm (11'11")	3630 mm (11'11")

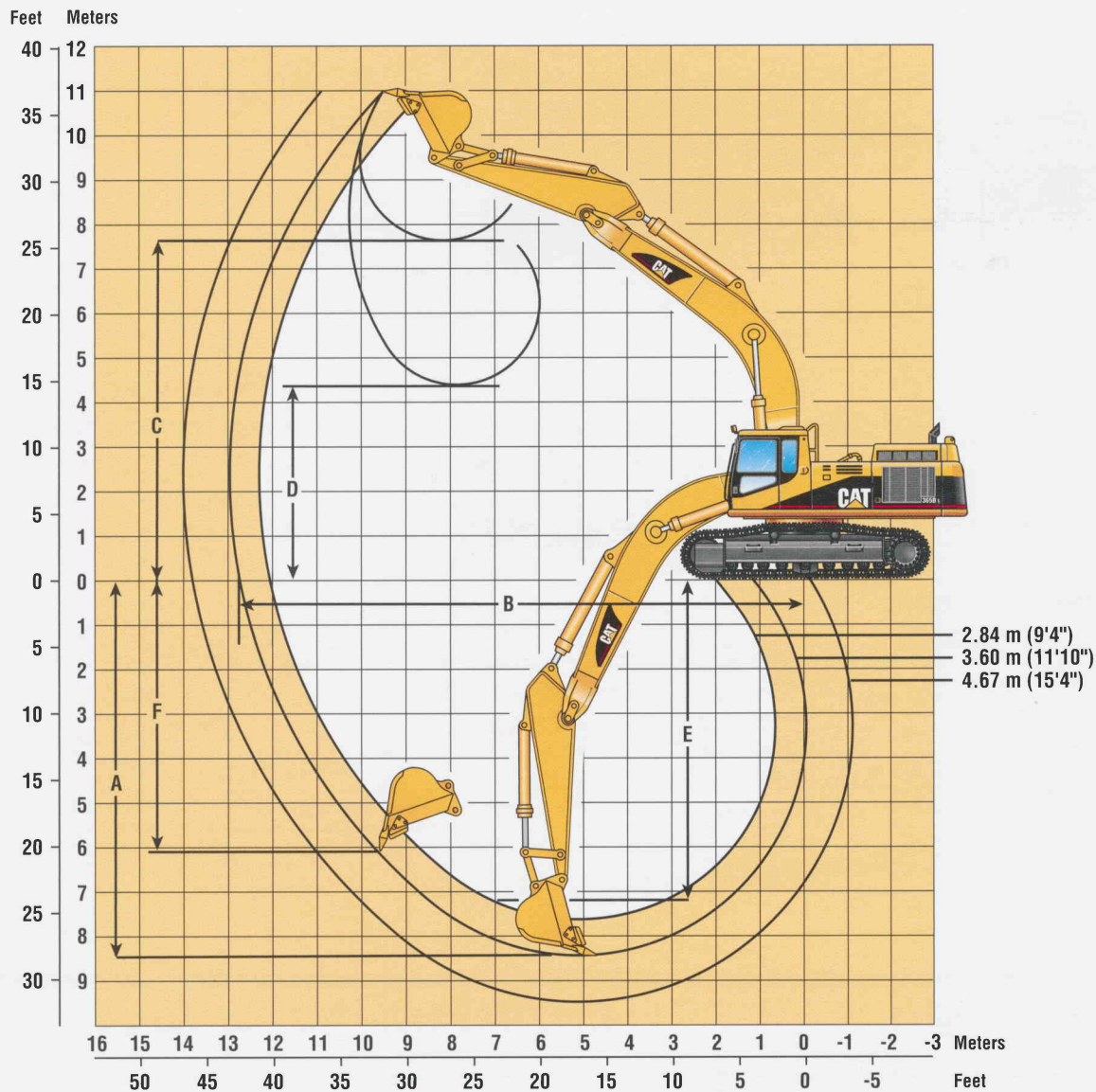
* Track Gauge in extended (working) position: 3250 mm (10'8")

** Transport Width shown for 750 mm (30") shoes. Add 150 mm (6") for 900 mm (36") shoes. Subtract 100 mm (4") for 650 mm (26") shoes.

Major Component Weights

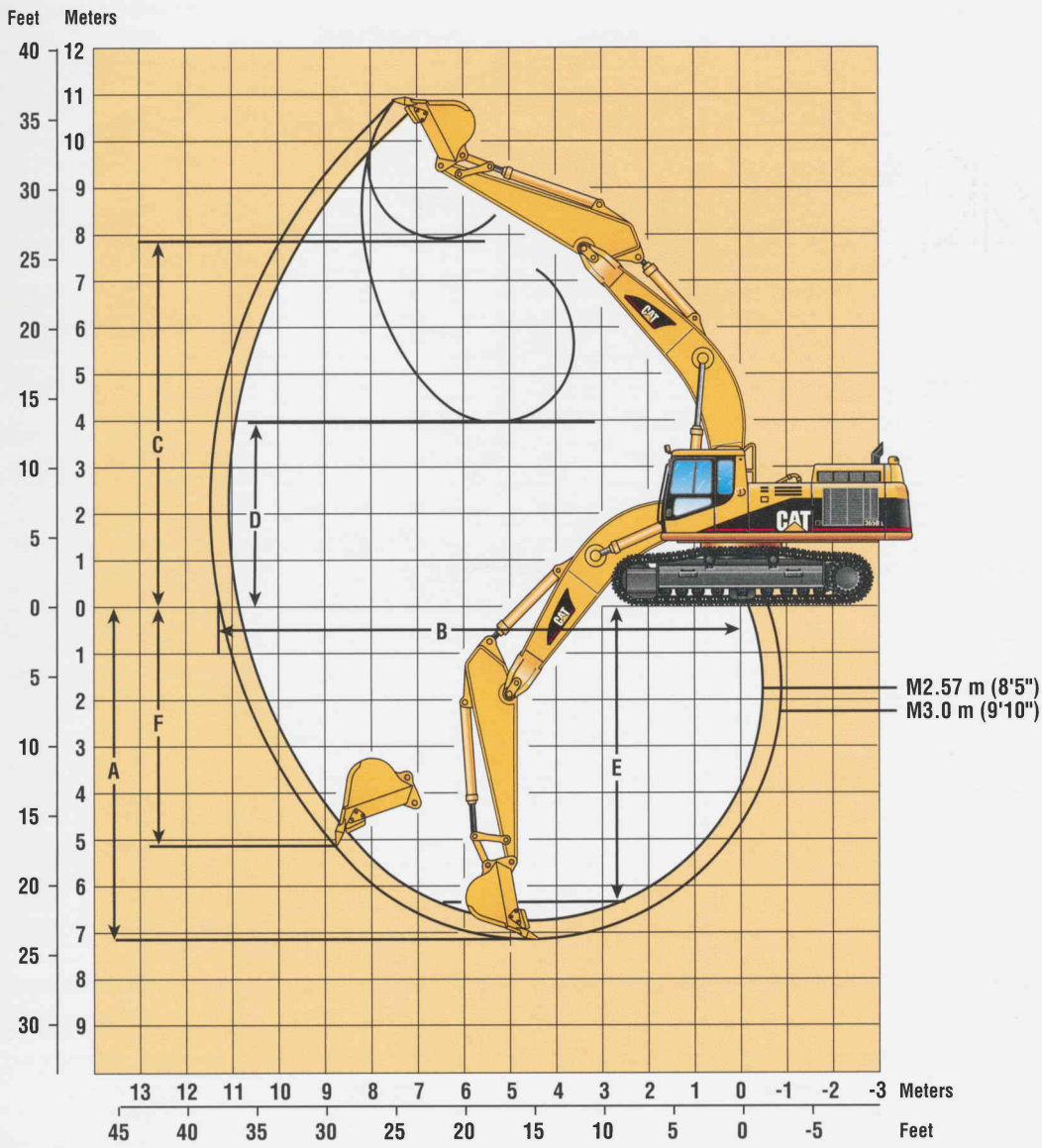
	kg	lb
Base machine with counterweight and 900 mm (36") shoes (without front linkage)	53 530	117,900
Counterweight		
Removal type	9200	20,300
Non-removal type	9800	21,600
Boom (includes lines, pins and stick cylinder)		
Reach boom 7.8 m (25'7")	6120	13,500
Mass boom 6.59 m (21'7")	6320	13,900
Stick (includes lines, pins, bucket cylinder and linkage)		
R4.67V (15'4")	3810	8,400
R3.6V (11'10")	3330	7,350
R2.84V (9'4")	3250	7,150
M3.0W (9'10")	4150	9,150
M2.57W (8'5")	3950	8,700
Track roller frame [includes frame, rollers, idler, steps, guards, final drive, 900 mm (36") shoes] – each	10 800	23,800

Working Ranges — Reach (R) Boom Configuration



Stick Length	R4.67 m (15'4")	R3.60 m (11'10")	R2.84 m (9'4")
A Maximum Digging Depth	9470 mm (31'1")	8400 mm (27'7")	7640 mm (25'1")
B Maximum Reach at Ground Level	14 040 mm (46'1")	12 980 mm (42'7")	12 340 mm (40'6")
C Maximum Loading Height	9180 mm (30'1")	8590 mm (28'2")	8430 mm (27'8")
D Minimum Loading Height	2420 mm (7'11")	3490 mm (11'5")	4240 mm (13'11")
E Maximum Depth Cut for 2440 mm (8') Level Bottom	9360 mm (30'9")	8270 mm (27'2")	7480 mm (24'6")
F Maximum Vertical Wall Digging Depth	8490 mm (27'11")	7270 mm (23'10")	6150 mm (20'2")
Bucket Digging Force (SAE)	265 kN (59,600 lb)	264 kN (59,300 lb)	277 kN (62,300 lb)
(ISO)	302 kN (67,900 lb)	301 kN (67,600 lb)	316 kN (71,000 lb)
Stick Digging Force (SAE)	193 kN (43,400 lb)	230 kN (51,700 lb)	253 kN (56,900 lb)
(ISO)	199 kN (44,700 lb)	239 kN (53,700 lb)	264 kN (59,300 lb)

Working Ranges — Mass (M) Boom Configuration



Stick Length	M3.0 m (9'10")	M2.57 m (8'5")
A Maximum Digging Depth	7170 mm (23'6")	6750 mm (22'2")
B Maximum Reach at Ground Level	11 240 mm (36'11")	10 840 mm (35'7")
C Maximum Loading Height	7080 mm (23'3")	6920 mm (22'8")
D Minimum Loading Height	2910 mm (9'7")	3330 mm (10'11")
E Maximum Depth Cut for 2440 mm (8') Level Bottom	7020 mm (23'0")	6590 mm (21'7")
F Maximum Vertical Wall Digging Depth	5500 mm (18'1")	5100 mm (16'9")
Bucket Digging Force (SAE)	330 kN (74,200 lb)	330 kN (74,200 lb)
(ISO)	384 kN (86,300 lb)	383 kN (86,100 lb)
Stick Digging Force (SAE)	253 kN (56,900 lb)	276 kN (62,000 lb)
(ISO)	264 kN (59,300 lb)	290 kN (65,200 lb)

Bucket Specifications

Contact your Caterpillar dealer for special bucket requirements.

	Capacity*		Width		Tip Radius		Weight (without tips)		Reach Boom Stick		
	m ³	yd ³	mm	in	mm	in	kg	lb	R4.67V (15'4")	R3.6V (11'10")	R2.84V (9'4")
V Buckets											
General Purpose (GP)	1.5	2.0	925	36	2150	84.6	1770	3900			
	2.0	2.7	1225	48	2150	84.6	2110	4650			
	2.3	3.0	1400	55	2150	84.6	2270	5000			
	2.7	3.6	1545	60	2150	84.6	2460	5420			
	2.9	3.75	1690	66	2150	84.6	2560	5640			
	3.8	5.0	1905	75	2192	86.3	2840	6260			
Heavy Duty (HD)	1.2	1.63	925	36	2060	81.1	1820	4010			
	1.8	2.4	1225	48	2060	81.1	2210	4870			
	2.2	2.86	1400	55	2060	81.1	2350	5180			
	2.5	3.2	1545	60	2060	81.1	2520	5550			
	2.7	3.6	1690	66	2060	81.1	2690	5930			
	3.3	4.3	1905	75	2060	81.1	2840	6260			
Heavy Duty Rock (HDR)	1.2	1.63	925	36	2060	81.1	2020	4450			
	1.8	2.4	1225	48	2060	81.1	2330	5130			
	2.2	2.86	1400	55	2060	81.1	2470	5440			
	2.5	3.2	1545	60	2060	81.1	2640	5810			
	2.7	3.6	1690	66	2060	81.1	2790	6150			
	3.3	4.3	1905	75	2060	81.1	3050	6720			

	Capacity*		Width		Tip Radius		Weight (without tips)		Mass Boom Stick	
	m ³	yd ³	mm	in	mm	in	kg	lb	M3.0W (9'10")	M2.57W (8'5")
W Buckets										
Excavation (E)	4.6	6.0	2250	89	2220	87.4	4140	9120		
Extreme Excavation (EX)	4.0	5.2	2000	79	2220	87.4	3890	8570		
Rock (R) — V-Edge	4.0	5.2	2000	79	2350	92.5	4250	9360		

Assumptions for maximum material density rating:

1. Front linkage fully extended at ground line
2. Bucket curled
3. 100% bucket fill factor

* Capacities are based on SAE J296.

Some calculations of capacity specs fall on borderlines.

Rounding may allow two buckets to have the same English rating but different metric ratings.

- 2100 kg/m³ (3500 lbs/yd³) max material density
- 1800 kg/m³ (3000 lbs/yd³) max material density
- 1500 kg/m³ (2500 lbs/yd³) max material density
- 1200 kg/m³ (2000 lbs/yd³) max material density

Standard Equipment

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

Alternator, 70-amp	Seat belt, retractable	Mirrors, frame and cab
Alarm, travel	Seat, suspension, fully adjustable	Muffler
Automatic engine speed control	Skylight, stationary	Precleaner (Donacclone) and radial seal air filter
Automatic swing parking brake	Storage compartment suitable for a lunch box cooler	Pre-start monitoring system
Auxiliary hydraulic valve and auxiliary pump drive location	Sun shade	Polycarbonate and glass windows
Cab	Sun visor	Power train
Air conditioner, heater, defroster with automatic climate control	Travel control pedals	CAT 3196 ATAAC Diesel engine with 24-volt electric starting
Antenna	Two-speed auto shift travel	Separated cooling system
Ashtray with cigar lighter	Windshield wiper and washer, upper and lower	S•O•S sampling ports for engine and hydraulic oils
Coat hook	Counterweight (9800 kg, 21,600 lb)	Undercarriage
Drink holder	Door locks and caps locks with Caterpillar one-key security system	Hydraulic track adjusters
Floor mat	Fuel-Water separator	Track-type sealed undercarriage
Horn	Heavy lift	Idler and center section track guides
Instrument panel with VIDS	Heavy duty bottom, swivel and travel motor guards	900 mm (36") double-grouser shoes
Gauges and indicator lights for fuel level, coolant temperature and hydraulic oil temperature	High ambient cooling system	Upper frame with second boom foot mount location for material handler fronts
Light, interior	Hydraulic neutralizer lever for all controls	Walkways, both sides
Literature compartment	Lights, working	
Low fuel indicator light	Frame mounted, one	
Joysticks, adjustable electronic	Boom, both sides	
Positive filtered ventilation	Cab mounted, two	
Pressurized cab	Storage box mounted, one	
Radio and speaker mounting		

Optional Equipment

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

Biodegradable oil package	Guards:	Starting aid, cold weather with ether
Booms:	Falling Object, for cab	Straight travel third pedal option
Reach 7.8 m (25'7")	Full length track guiding	Sticks:
Mass excavation 6.59 m (21'7")	Vandalism protection	4670 mm (15'4") R4.67V
Buckets (see pages 13 and 20)	Hydraulic arrangements,	3600 mm (11'10") R3.6V
Bucket linkage:	basic auxiliary,	2840 mm (9'4") R2.84V
V family	One-way	3000 mm (9'10") M3.0W
W family	One-way/two-way, includes	2570 mm (8'5") M2.57W
Bucket sidecutters and tips	two-pump combined flow	Track:
Check valves:	Hydraulic lines, auxiliary for	750 mm (30") double-grouser shoes
Boom lowering	Reach Boom and stick	650 mm (26") double-grouser shoes
Stick lowering	Mass Boom and stick	
Counterweight removal device	Hydraulic tank suction line	
Fine filtration system	shut-off valve	
	Rain protector for windshield	

Reach Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

BOOM – Reach 7.8 m (25'7")
STICK – R4.67V 4670 mm (15'4")

BUCKET – 1545 mm, 2.7 m³ (60", 3.6 yd³)
SHOES – 900 mm (36")

HEAVY LIFT – ON

Load Point Height	Unit	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		10.5 m/35.0 ft		12.0 m/40.0 ft		m ft		
		Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	kg	lb	
10.5 m 35.0 ft	kg lb															*4300 *9550	*4300 *9550	11.40 36.96
9.0 m 30.0 ft	kg lb											*6800 *15,000	*6800 *15,000			*4050 *8950	*4050 *8950	12.41 40.43
7.5 m 25.0 ft	kg lb									*9000 *19,550	*9000 *19,550	*8450 *18,350	*8450 *18,350			*4000 *8750	*4000 *8750	13.11 42.86
6.0 m 20.0 ft	kg lb									*9750 *21,100	*9750 *21,100	*8900 *19,350	8400 17,900	*6800 *14,900	6300 13,900	*4000 *8750	*4000 *8750	13.57 44.44
4.5 m 15.0 ft	kg lb					*15 400 *33,900	*15 400 *33,900	*12 500 *26,950	*12 500 *26,950	*10 700 *23,100	*10 700 *23,100	*9450 *20,500	8150 17,350	*8100 *15,900	6100 12,950	*4100 *9000	*4100 *9000	13.81 45.30
3.0 m 10.0 ft	kg lb					*18 250 *39,250	*18 250 *39,250	*14 150 *30,500	*14 150 *30,500	*11 700 *25,250	10 400 22,350	*10 050 *21,750	7800 16,700	*8850 *18,200	5900 12,550	*4350 *9500	*4350 *9500	13.86 45.47
1.5 m 5.0 ft	kg lb					*20 500 *44,200	19 150 41,150	*15 550 *33,600	13 400 28,850	*12 600 *27,200	9900 21,250	*10 550 *22,850	7500 16,050	*9050 *19,450	5750 12,200	*4650 *10,250	*4650 *9750	13.71 44.98
Ground Line	kg lb			*14 000 *32,500	*14 000 *32,500	*21 750 *46,950	18 150 39,050	*16 500 *35,650	12 800 27,450	*13 200 *28,500	9500 20,350	*10 900 *23,550	7250 15,500	*9100 *17,350	5600 11,950	*5150 *11 350	4650 10 200	13.35 43.80
-1.5 m -5.0 ft	kg lb	*9100 *20,600	*9100 *20,600	*17 850 *41,000	*17 850 *41,000	*21 950 *47,400	17 650 37,950	*16 800 *36,300	12 400 26,600	*13 400 *28,850	9200 19,750	*10 900 *23,400	7100 15,150			*5850 *12,900	5050 11,100	12.77 41.87
-3.0 m -10.0 ft	kg lb	*14 700 *33,150	*14 700 *33,150	*24 000 *54,900	*24 000 *54,900	*21 150 *45,700	17 550 37,600	*16 350 *35,300	12 200 26,250	*13 000 *27,900	9100 19,500	*10 250 *21,900	7050 15,100			*6900 *15,300	5800 12,750	11.94 39.07
-4.5 m -15.0 ft	kg lb	*21 450 *48,550	*21 450 *48,550	*25 300 *54,600	*25 300 *54,600	*19 300 *41,550	17 700 37,950	*15 050 *32,300	12 300 26,400	*11 700 *24,950	9150 19,700					*6900 *15,100	*6900 *15,100	10.78 35.14
-6.0 m -20.0 ft	kg lb	*27 550 *58,900	*27 550 *58,900	*20 750 *44,400	*20 750 *44,400	*16 100 *34,300	*16 100 *34,300	*12 350 *26,100	*12 350 *26,100	*8700 *19,150	*8700 *19,150					*5550 *11,900	*5550 *11,900	9.14 29.61
-7.5 m -25.0 ft	kg lb					*10 500 *21,300	*10 500 *21,300									*7150 *17,600	*7150 *17,600	7.32 22.25

* 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.

BOOM – Reach 7.8 m (25'7")
STICK – R4.67V 4670 mm (15'4")

BUCKET – 1545 mm, 2.7 m³ (60", 3.6 yd³)
SHOES – 900 mm (36")

HEAVY LIFT – OFF

Load Point Height	Unit	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		10.5 m/35.0 ft		12.0 m/40.0 ft		m ft		
		Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	kg	lb	
10.5 m 35.0 ft	kg lb															*3650 *8150	*3650 *8150	11.40 36.96
9.0 m 30.0 ft	kg lb											*6500 *14,250	*6500 *14,250			*3450 *7600	*3450 *7600	12.41 40.43
7.5 m 25.0 ft	kg lb									*7750 *16,850	*7750 *16,850	*7200 *15,700	*7200 *15,700			*3350 *7400	*3350 *7400	13.11 42.86
6.0 m 20.0 ft	kg lb									*8400 *18,200	*8400 *18,200	*7650 *16,600	*7650 *16,600	*5900 *13,000	*5900 *13,000	*3400 *7400	*3400 *7400	13.57 44.44
4.5 m 15.0 ft	kg lb					*13 550 *29,800	*13 550 *29,800	*10 900 *23,500	*10 900 *23,500	*9250 *19,950	*9250 *19,950	*8100 *17,550	*8100 *17,550	*7100 *13,900	6100 12,950	*3500 *7650	*3500 *7650	13.81 45.30
3.0 m 10.0 ft	kg lb					*16 000 *34,450	*16 000 *34,450	*12 350 *26,600	*12 350 *26,600	*10 100 *21,850	*10 100 *21,850	*8650 *18,650	7800 16,700	*7550 *16,000	5900 12,550	*3700 *8100	*3700 *8100	13.86 45.47
1.5 m 5.0 ft	kg lb					*17 950 *38,700	*17 950 *38,700	*13 550 *29,250	13 400 28,850	*10 900 *23,500	9900 21,250	*9100 *19,600	7500 16,050	*7750 *16,650	5750 12,200	*4000 *8750	*4000 *8750	13.71 44.98
Ground Line	kg lb			*12 950 *30,050	*12 950 *30,050	*19 050 *41,100	18 150 39,050	*14 350 *31,050	12 800 27,450	*11 400 *24,650	9500 20,350	*9350 *20,200	7250 15,500	*7700 *15,200	5600 11,950	*4450 *9750	*4450 *9750	13.35 43.80
-1.5 m -5.0 ft	kg lb	*8350 *18,900	*8350 *18,900	*16 550 *38,000	*16 550 *38,000	*19 200 *41,450	17 650 37,950	*14 600 *31,550	12 400 26,600	*11 550 *24,950	9200 19,750	*9350 *20,050	7100 15,150			*5100 *11,200	5050 11,100	12.77 41.87
-3.0 m -10.0 ft	kg lb	*13 600 *30,700	*13 600 *30,700	*22 300 *51,100	*22 300 *51,100	*18 450 *39,850	17 550 37,600	*14 200 *30,650	12 200 26,250	*11 200 *24,050	9100 19,500	*8750 *18,650	7050 15,100			*6050 *13,400	5800 12,750	11.94 39.07
-4.5 m -15.0 ft	kg lb	*19 900 *45,150	*19 900 *45,150	*22 100 *47,650	*22 100 *47,650	*16 800 *36,100	*16 800 *36,100	*13 000 *27,900	12 300 26,400	*10 050 *21,350	9150 19,700					*5750 *12,550	*5750 *12,550	10.78 35.14
-6.0 m -20.0 ft	kg lb	*23 850 *51,000	*23 850 *51,000	*18 000 *38,450	*18 000 *38,450	*13 900 *29,550	*13 900 *29,550	*10 600 *22,250	*10 600 *22,250	*7300 *16,100	*7300 *16,100					*4500 *9550	*4500 *9550	9.14 29.61
-7.5 m -25.0 ft	kg lb					*8850 *17,850	*8850 *17,850									*5900 *14,550	*5900 *14,550	7.32 22.25

* 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.

Reach Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

BOOM – Reach 7.8 m (25'7")

BUCKET – 1545 mm, 2.7 m³ (60", 3.6 yd³)

HEAVY LIFT – ON

STICK – R3.6V 3600 mm (11'10")

SHOES – 900 mm (36")

Load Point Height	kg	lb	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		10.5 m/35.0 ft		m	ft
			Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side		
10.5 m 35.0 ft																
9.0 m 30.0 ft																
7.5 m 25.0 ft																
6.0 m 20.0 ft																
4.5 m 15.0 ft																
3.0 m 10.0 ft																
1.5 m 5.0 ft																
Ground Line																
-1.5 m -5.0 ft																
-3.0 m -10.0 ft																
-4.5 m -15.0 ft																
-6.0 m -20.0 ft																

* 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.

BOOM – Reach 7.8 m (25'7")

BUCKET – 1545 mm, 2.7 m³ (60", 3.6 yd³)

HEAVY LIFT – OFF

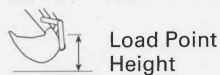
STICK – R3.6V 3600 mm (11'10")

SHOES – 900 mm (36")

Load Point Height	kg	lb	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		10.5 m/35.0 ft		m	ft
			Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side		
10.5 m 35.0 ft																
9.0 m 30.0 ft																
7.5 m 25.0 ft																
6.0 m 20.0 ft																
4.5 m 15.0 ft																
3.0 m 10.0 ft																
1.5 m 5.0 ft																
Ground Line																
-1.5 m -5.0 ft																
-3.0 m -10.0 ft																
-4.5 m -15.0 ft																
-6.0 m -20.0 ft																

* 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.

Reach Lift Capacities



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

BOOM – Reach 7.8 m (25'7")
STICK – R2.84V 2840 mm (9'4")

BUCKET – 1545 mm, 2.7 m³ (60", 3.6 yd³)
SHOES – 900 mm (36")

HEAVY LIFT – ON

Reach m ft	Unit	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		10.5 m/35.0 ft		m ft		
		Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side			
10.5 m 35.0 ft	kg lb													*6400 *14,300	*6400 *14,300	9.16 29.47
9.0 m 30.0 ft	kg lb													*6050 *13,300	*6050 *13,300	10.45 33.94
7.5 m 25.0 ft	kg lb							*12 600 *27,350	*12 600 *27,350	*11 300 *24,500	*11 300 *24,250			*5850 *12,950	*5850 *12,950	11.31 36.91
6.0 m 20.0 ft	kg lb			*22 500 *49,550	*22 500 *49,550	*16 700 *35,950	*16 700 *35,950	*13 700 *29,650	*13 700 *29,650	*11 900 *25,800	10 950 23,400			*5900 *12,900	*5900 *12,900	11.85 38.79
4.5 m 15.0 ft	kg lb					*19 300 *41,450	*19 300 *41,450	*15 050 *32,500	14 450 31,050	*12 600 *27,300	10 550 22,650	*11 000 *24,250	7900 17,350	*6050 *13,250	*6050 *13,250	12.14 39.79
3.0 m 10.0 ft	kg lb					*21 400 *46,050	19 200 41,350	*16 300 *35,200	13 650 29,400	*13 300 *28,750	10 150 21,800	*11 300 *24,400	7700 16,400	*6300 *13,850	5900 13,000	12.19 39.99
1.5 m 5.0 ft	kg lb					*22 350 *48,250	18 250 39,350	*17 100 *36,900	13 100 28,100	*13 750 *29,750	9800 21,050	*11 400 *24,550	7500 16,100	*6750 *14,850	6000 13,150	12.01 39.41
Ground Line	kg lb					*22 100 *47,950	17 900 38,500	*17 250 *37,250	12 700 27,350	*13 800 *29,800	9600 20,550	*11 050 *24,350	7450 16,350	*7450 *16,400	6350 13,950	11.59 38.02
-1.5 m -5.0 ft	kg lb			*19 350 *44,700	*19 350 *44,700	*21 000 *45,500	17 900 38,450	*16 600 *35,900	12 600 27,100	*13 200 *28,400	9500 20,400			*8450 *18,650	7100 15,700	10.90 35.70
-3.0 m -10.0 ft	kg lb	*20 500 *46,500	*20 500 *46,500	*23 050 *50,150	*23 050 *50,150	*18 900 *40,850	18 150 39,000	*15 050 *32,400	12 750 27,400	*11 500 *24,250	9650 20,800			*8000 *17,550	*8000 *17,550	9.87 32.24
-4.5 m -15.0 ft	kg lb			*18 650 *40,200	*18 650 *40,200	*15 450 *33,050	*15 450 *33,050	*11 900 *25,000	*11 900 *25,000					*6050 *13,200	*6050 *13,200	8.46 27.77

* 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.

BOOM – Reach 7.8 m (25'7")
STICK – R2.84V 2840 mm (9'4")

BUCKET – 1545 mm, 2.7 m³ (60", 3.6 yd³)
SHOES – 900 mm (36")

HEAVY LIFT – OFF

Reach m ft	Unit	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		10.5 m/35.0 ft		m ft		
		Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side			
10.5 m 35.0 ft	kg lb													*5650 *12,550	*5650 *12,550	9.16 29.47
9.0 m 30.0 ft	kg lb													*5300 *11,650	*5300 *11,650	10.45 33.94
7.5 m 25.0 ft	kg lb							*11 050 *23,950	*11 050 *23,950	*9800 *21,300	*9800 *21,300			*5150 *11,300	*5150 *11,300	11.31 36.91
6.0 m 20.0 ft	kg lb			*19 950 *43,950	*19 950 *43,950	*14 750 *31,700	*14 750 *31,700	*12 000 *25,950	*12 000 *25,950	*10 350 *22,450	*10 350 *22,450			*5150 *11,300	*5150 *11,300	11.85 38.79
4.5 m 15.0 ft	kg lb					*16 950 *36,450	*16 950 *36,450	*13 200 *28,450	*13 200 *28,450	*10 950 *23,750	10 550 22,650	*9500 *20,950	7900 17,350	*5300 *11,600	*5300 *11,600	12.14 39.79
3.0 m 10.0 ft	kg lb					*18 800 *40,450	*18 800 *40,450	*14 250 *30,750	13 650 29,400	*11 550 *25,000	10 150 21,800	*9750 *21,100	7700 16,400	*5550 *12,150	*5550 *12,150	12.19 39.99
1.5 m 5.0 ft	kg lb					*19 600 *42,350	18 250 39,350	*14 950 *32,250	13 100 28,100	*11 950 *25,850	9800 21,050	*9850 *21,150	7500 16,100	*5950 *13,050	*5950 *13,050	12.01 39.41
Ground Line	kg lb					*19 400 *42,000	17 900 38,500	*15 050 *32,500	12 700 27,350	*12 000 *25,850	9600 20,550	*9550 *20,950	7450 16,350	*6550 *14,450	6350 13,950	11.59 38.02
-1.5 m -5.0 ft	kg lb			*18 000 *41,600	*18 000 *41,600	*18 350 *39,750	17 900 38,450	*14 450 *31,250	12 600 27,100	*11 450 *24,600	9500 20,400			*7500 *16,500	7100 15,700	10.90 35.70
-3.0 m -10.0 ft	kg lb	*19 100 *43,300	*19 100 *43,300	*20 100 *43,700	*20 100 *43,700	*16 450 *35,550	*16 450 *35,550	*13 050 *28,050	12 750 27,400	*9900 *20,800	9650 20,800			*6750 *14,800	*6750 *14,800	9.87 32.24
-4.5 m -15.0 ft	kg lb			*16 100 *34,750	*16 100 *34,750	*13 350 *28,500	*13 350 *28,500	*10 200 *21,400	*10 200 *21,400					*4950 *10,850	*4950 *10,850	8.46 27.77

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Mass Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front

















Load Radius Over Side

BOOM – Mass 6.59 m (21'7")
STICK – M3.0W 3000 mm (9'10")

BUCKET – 2250 mm, 4.6 m³ (89", 6 yd³)
SHOES – 750 mm (30")

HEAVY LIFT – ON













	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				m ft	
														
9.0 m 30.0 ft	kg lb											*4100 *9050	*4100 *9050	9.20 29.79
7.5 m 25.0 ft	kg lb							*10 750 *23,350	*10 750 *23,350			*3850 *8450	*3850 *8450	10.21 33.27
6.0 m 20.0 ft	kg lb							*11 750 *25,500	*11 750 *25,500	*9950 *21,900	9550 21,050	*3800 *8350	*3800 *8350	10.82 35.42
4.5 m 15.0 ft	kg lb			*22 100 *47,300	*22 100 *47,300	*16 200 *34,800	*16 200 *34,800	*13 050 *28,200	*13 050 *28,200	*11 150 *24,250	9200 19,450	*3950 *8650	*3950 *8650	11.14 36.53
3.0 m 10.0 ft	kg lb			*27 150 *58,250	*27 150 *58,250	*18 750 *40,300	*18 750 *40,300	*14 450 *31,150	12 850 27,550	*11 850 *25,600	8900 18,900	*4300 *9350	*4300 *9350	11.19 36.73
1.5 m 5.0 ft	kg lb			*26 350 *63,200	*26 350 *62,650	*20 600 *44,400	*18 000 *38,700	*15 550 *33,550	12 250 26,150	*12 350 *26,650	8600 18,300	*4800 *10,550	*4800 *10,550	10.98 36.05
Ground Line	kg lb			*29 650 *64,650	28 350 60,700	*21 300 *46,000	17 300 37,100	*16 000 *34,550	11 800 25,200	*12 400 *26,550	8350 17,850	*5600 *12,350	*5600 *12,350	10.50 34.44
-1.5 m -5.0 ft	kg lb	*20 050 *45,300	*20 050 *45,300	*28 250 *61,250	*28 250 60,650	*20 700 *44,700	17 050 36,550	*15 550 *33,450	11 600 24,850			*6950 *15,300	*6950 *15,300	9.69 31.73
-3.0 m -10.0 ft	kg lb	*32 450 *73,250	*32 450 *73,250	*24 950 *53,900	*24 950 *53,900	*18 550 *39,900	17 250 37,000	*13 500 *28,550	11 750 25,250			*6700 *14,750	*6700 *14,750	8.46 27.62
-4.5 m -15.0 ft	kg lb	*25 100 *53,700	*25 100 *53,700	*19 100 *40,650	*19 100 *40,650	*13 750 *28,650	*13 750 *28,650					*10 850 *23,750	*10 850 *23,750	6.70 21.74

* 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.

BOOM – Mass 6.59 m (21'7")
STICK – M3.0W 3000 mm (9'10")

BUCKET – 2250 mm, 4.6 m³ (89", 6 yd³)
SHOES – 750 mm (30")

HEAVY LIFT – OFF

	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				m ft	
														
9.0 m 30.0 ft	kg lb											*3400 *7500	*3400 *7500	9.20 29.79
7.5 m 25.0 ft	kg lb							*9250 *20,050	*9250 *20,050			*3150 *6950	*3150 *6950	10.21 33.27
6.0 m 20.0 ft	kg lb							*10 100 *21,900	*10 100 *21,900	*8750 *19,200	*8750 *19,200	*3100 *6850	*3100 *6850	10.82 35.42
4.5 m 15.0 ft	kg lb			*19 500 *41,650	*19 500 *41,650	*14 100 *30,300	*14 100 *30,300	*11 250 *24,300	*11 250 *24,300	*9500 *20,650	9200 19,450	*3250 *7150	3250 *7150	11.14 36.53
3.0 m 10.0 ft	kg lb			*23 850 *51,200	*23 850 *51,200	*16 350 *35,150	*16 350 *35,150	*12 450 *26,900	*12 450 *26,900	*10 100 *21,850	8900 18,900	*3550 *7750	*3550 *7750	11.19 36.73
1.5 m 5.0 ft	kg lb			*24 450 *56,300	*24 450 *56,300	*17 950 *38,650	*17 950 *38,650	*13 450 *28,950	12 250 26,150	*10 550 *22,750	8600 18,300	*4050 *8850	*4050 *8850	10.98 36.05
Ground Line	kg lb			*26 150 *56,650	*26 150 *56,650	*18 550 *40,050	17 300 37,100	*13 850 *29,800	11 800 25,200	*10 600 *22,650	8350 17,850	*4800 *10,500	*4800 *10,500	10.50 34.44
-1.5 m -5.0 ft	kg lb	*18 500 *41,900	*18 500 *41,900	*24 700 *53,500	*24 700 *53,500	*18 000 *38,850	17 050 36,550	*13 400 *28,800	11 600 24,850			*6000 *13,200	*6000 *13,200	9.69 31.73
-3.0 m -10.0 ft	kg lb	*29 450 *63,850	*29 450 *63,850	*21 700 *46,900	*21 700 *46,900	*16 050 *34,450	*16 050 *34,450	*11 500 *24,350	*11 500 *24,350			*6450 *14,100	*6450 *14,100	8.46 27.62
-4.5 m -15.0 ft	kg lb	*21 650 *46,250	*21 650 *46,250	*16 450 *34,950	*16 450 *34,950	*11 700 *24,300	*11 700 *24,300					*9150 *19,950	*9150 *19,950	6.70 21.74

* 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.

Mass Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

BOOM – Mass 6.59 m (21'7")
STICK – M2.57W 2570 mm (8'5")

BUCKET – 2250 mm, 4.6 m³ (89", 6 yd³)
SHOES – 750 mm (30")

HEAVY LIFT – ON

Load Point Height	Unit	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		m ft		
		Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side			
9.0 m 30.0 ft	kg lb											*5100 *11,250	*5100 *11,250	8.70 28.10
7.5 m 25.0 ft	kg lb							*11 550 *25,100	*11 550 *25,100			*4800 *10,550	*4800 *10,550	9.77 31.83
6.0 m 20.0 ft	kg lb					*14 750 *31,800	*14 750 *31,800	*12 550 *27,200	*12 550 *27,200			*4750 *10,450	*4750 *10,450	10.42 34.09
4.5 m 15.0 ft	kg lb			*23 800 *50,900	*23 800 *50,900	*17 150 *36,900	*17 150 *36,900	*13 750 *29,700	13 400 28,700	*11 700 *23,600	9100 19,400	*4950 *10,800	*4950 *10,800	10.75 35.25
3.0 m 10.0 ft	kg lb			*61,000	*61,000	*19,500 *42,000	19,000 40,800	*15,000 *32,400	12,800 27,400	*12,250 *26,500	8850 18,800	*5300 *11,600	*5300 *11,600	10.81 35.46
1.5 m 5.0 ft	kg lb			*22 000 *53,100	*22 000 *53,100	*21 050 *45,450	17 900 38,450	*15 950 *34,400	12 200 26,150	*12 600 *27,150	8600 18,350	*5900 *12,900	*5900 *12,900	10.59 34.75
Ground Line	kg lb			*29 200 *63,900	28 250 60,500	*21 400 *46,250	17 300 37,150	*16 150 *34,850	11 850 25,400	*12 300 *27,050	8450 18,600	*6800 *15,000	*6800 *15,000	10.08 33.06
-1.5 m -5.0 ft	kg lb	*21 650 *48,950	*21 650 *48,950	*27 350 *59,350	*27 350 *59,350	*20 450 *44,100	17 200 36,900	*15 350 *32,900	11 750 25,200			*8300 *18,350	8250 18,200	9.22 30.19
-3.0 m -10.0 ft	kg lb	*30 300 *65,850	*30 300 *65,850	*23 550 *50,850	*23 550 *50,850	*17 750 *38,050	17 500 37,600	*12 350 *27,150	12 050 26,550			*6450 *14,200	*6450 *14,200	7.93 25.87
-4.5 m -15.0 ft	kg lb			*16 750 *35,400	*16 750 *35,400	*11 400 *25,100	*11 400 *25,100					*10 850 *23,550	*10 850 *23,550	6.12 19.79

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BUCKET – 2250 mm, 4.6 m³ (89", 6 yd³)
SHOES – 750 mm (30")

HEAVY LIFT – OFF

Load Point Height	Unit	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		m ft		
		Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side			
9.0 m 30.0 ft	kg lb											*4300 *9550	*4300 *9550	8.70 28.10
7.5 m 25.0 ft	kg lb							*9950 *21,650	*9950 *21,650			*4050 *8900	*4050 *8900	9.77 31.83
6.0 m 20.0 ft	kg lb					*12 850 *27,700	*12 850 *27,700	*10 800 *23,450	*10 800 *23,450			*4000 *8800	*4000 *8800	10.42 34.09
4.5 m 15.0 ft	kg lb			*21 000 *44,850	*21 000 *44,850	*15 000 *32,200	*15 000 *32,200	*11 850 *25,650	*11 850 *25,650	*10 000 *20,800	9100 19,400	*4150 *9100	*4150 *9100	10.75 35.25
3.0 m 10.0 ft	kg lb			*53,650	*53,650	*17 050 *36,650	*17 050 *36,650	*13 000 *28,000	12 800 27,400	*10 500 *22,650	8850 18,800	*4500 *9850	*4500 *9850	10.81 35.46
1.5 m 5.0 ft	kg lb			*20 350 *49,150	*20 350 *49,150	*18 400 *39,650	17 900 38,450	*13 800 *29,750	12 200 26,150	*10 800 *23,200	8600 18,350	*5050 *11,050	*5050 *11,050	10.59 34.75
Ground Line	kg lb			*25 800 *55,950	*25 800 *55,950	*18 650 *40,300	17 300 37,150	*14 000 *30,150	11 850 25,400	*10 500 *23,100	8450 18,600	*5900 *12,950	*5900 *12,950	10.08 33.06
-1.5 m -5.0 ft	kg lb	*20 050 *45,400	*20 050 *45,400	*23 900 *51,800	*23 900 *51,800	*17 750 *38,350	17 200 36,900	*13 200 *28,350	11 750 25,200			*7250 *16,000	*7250 *16,000	9.22 30.19
-3.0 m -10.0 ft	kg lb	*26 350 *57,150	*26 350 *57,150	*20 450 *44,150	*20 450 *44,150	*15 300 *32,850	*15 300 *32,850	*10 500 *23,100	*10 500 *23,100			*6250 *13,600	*6250 *13,600	7.93 25.87
-4.5 m -15.0 ft	kg lb			*14 350 *30,250	*14 350 *30,250	*9600 *21,150	*9600 *21,150					*9100 *19,750	*9100 *19,750	6.12 19.79

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Notes

365B L Hydraulic Excavator



AEHQ5367-01 (10-00)
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