# 390D/390D L

## Hydraulic Excavators


| Engine | |
|---|---|
| Engine Model | Cat® C18 ACERT® (ATAAC) |
| Net Power – ISO 9249 | 390 kW (523 hp) |
| Net Power – SAE J1349 | 390 kW (523 hp) |

| Drive | |
|---|---|
| Maximum Travel Speed | 4.5 km/h |
| Maximum Drawbar Pull | 590 kN |

| Weights | |
|---|---|
| Operating Weight – Long Undercarriage | 86 190 kg |

• 8.4 m GP boom, R4.4 m stick, 4.6 $m^3$ HD bucket and 650 mm shoes.

## Features

**Performance**
*High level of sustained production, improved performance, reliability and durability increase your productivity and lower your operating costs.*

**Engine**
*The Cat® C18 engine uses ACERT™ Technology for exceptional performance capabilities and proven reliability.*

**Operator Station**
*Superior cab comfort and visibility provide an excellent working environment. The full-color monitor with graphic display features enhanced functionality to provide a simple, comprehensive machine interface.*

**Maximum Versatility**
*A variety of work tools, including buckets, are available for applications such as demolition, site clean-up, scrap processing, breaking up road surfaces and bedrock through Cat® Work Tools.*

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

## Contents




**The Cat® 390D/390D L Hydraulic Excavator has excellent control, high stick and bucket forces, impressive lift capacity, simplified service and a comfortable operator station to increase your productivity and lower operating costs.**

# Hydraulics

## Precise power and control to move more material


### Main Pumps

The hydraulic system includes three pumps with an independent swing circuit. The hydraulic circuit utilizes a load-sensing system to ensure high efficiency and productivity with little hydraulic loss.

### Swing Dampening Valve

A swing dampening valve reduces wagging, which produces smoother, time-saving swing stops.

### Implement Pressure

Increased implement pressure provides shorter cycle times, stronger digging forces and greater bucket fill factors.

### Auxiliary Hydraulics

Standard auxiliary hydraulics are managed electronically, making the machine more versatile.

### Proportional Priority Pressure Compensation (PPPC) Hydraulics

The load-sensing PPPC system with proprietary electronic actuation provides excellent efficiency and controllability.

- Pump discharge flow matches the operator's desired speed, which makes for extremely smooth shifting from neutral to full stroke.
- Pump flow volume all goes to the actuator, which ensures the delivery of maximum hydraulic energy. Even if load pressure changes during actuation, the control lever position does not vary, which makes for consistent, reliable operation.

# Operator Station

## Simple and comfortable for maximum productivity

### Cab Design

The spacious cab provides excellent visibility and ergonomics. The full-color monitor provides the operator with easy-to-read, comprehensive machine information.

### Cab Exterior

The cab utilizes thick steel tubing along the bottom to reduce vibration and fatigue. The cab structure allows the FOGS to be bolted directly to the cab either at the factory or as an attachment.

### Cab Mounts

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

### Additional Features

The 390D operator station has many features for operator comfort.

- Low effort joysticks.
- Numeric view of fuel consumption on the monitor.
- Optional rearview camera for added safety.
- Optional HID (High Intensity Discharge) lights with time delay for the boom and cab lights.
- Optional premium air suspension seat with adjustable/tilt console.
- Two-way radio-ready option.



# Engine

## Power to move more dirt with less fuel

### Cat® C18 Engine

The C18 engine with ACERT™ Technology powers the 390D. The C18 has a proven record of long life. Materials like high-strength steels and cast iron contribute to its durability, while uniquely designed water-cooled turbochargers and mechanically actuated fuel injection contribute to its reliability.

### Improved Fuel Efficiency

The 390D optimizes fuel consumption through flexible power settings incorporated into the ADEM™ controller, which electronically manages engine response to load demand. The operator can select High Production, Standard or Economy mode to meet application requirements.

### Hydraulic Cooling Fans

The 390D uses hydraulically driven cooling fans that operate based on coolant and hydraulic oil temperatures. To reduce load when cranking the engine, the cooling fan speed is fixed for a set amount of time after the engine is started and then is increased gradually to a specific speed.

### Reversible Fan

A reversible fan option is offered to help clean the cooling package for increased uptime and reduced service cost.

# Control System

## Easy to view, easy to manage


### Monitor Display

The monitor is a full-color Liquid Crystal Display (LCD). A master caution lamp blinks ON and OFF when one of the critical conditions below occurs:

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

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

### Gauge Display

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

### Pattern Control Changer

The standard hand control pattern changer can be accessed through the monitor to utilize either the standard excavator control pattern or backhoe pattern, making it easier for operators to work in the mode they are accustomed.

### Electronic Joysticks

Electronic joysticks provide features not possible with hydraulic pilot valves:

- Eliminate pilot lines in cab for quieter operation
- Simple pattern change through the monitor

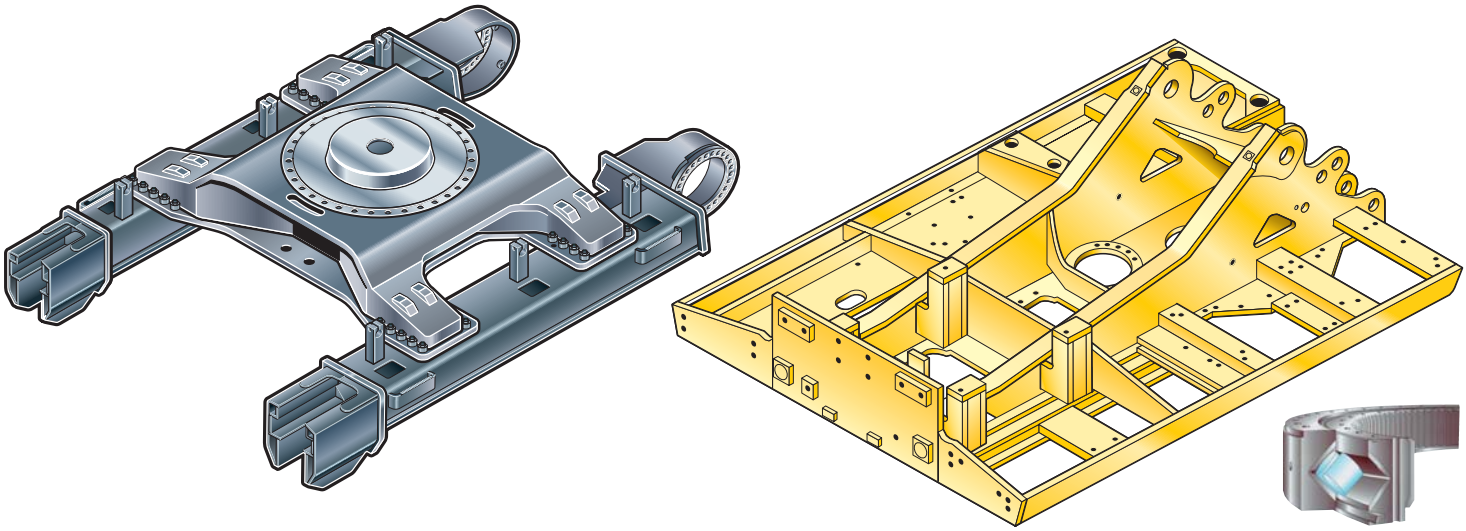
### Operator Gain/Response

This is used to suit the operator preference or application.

- Faster for quick response
- Slower for more precision

### Product Link

Product Link is a proprietary Caterpillar technology that tracks machine location, product health, hours of use and fuel consumption. This information is transmitted back to customers to help maximize machine productivity.



# Structures

## Rugged and durable for many applications

### Variable Gauge Undercarriage

The variable gauge undercarriage is standard, providing a wide, stable base for operating or a narrow gauge for reduced shipping width. Changes to the 390D/390D L undercarriage include:

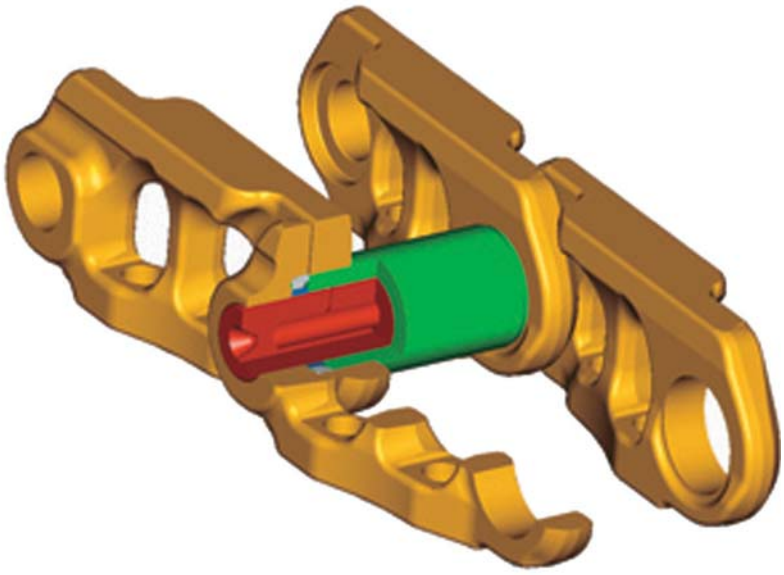
- Improved track link to reduce and avoid stresses
- Improved carrier rollers to reduce the risk of leaking lubrication oil
- Improved forged idler for added durability in severe underfoot conditions
- Positive Pin Retention 2 (PPR2) to prevent pin movement

### Catwalks

Slip-resistant catwalks are 500 mm wide and stretch the length of the machine to provide safe access to major service points.

### Track Roller Frame

The thick, steel-plated track roller frame is welded into a box structure, which provides increased rigidity and impact resistance.



# Undercarriage

## Strong, stable and durable

### Undercarriage

The undercarriage supports the swing bearing and upper structure and is the link that transmits the reaction forces from digging to the ground. The strength of the Cat undercarriage plays a major factor in machine stability and durability.

### Track Roller Frame

The track roller frame has been improved by installing a longer stroke recoil spring and lowering the front idler. The longer recoil spring improves durability and service life of the undercarriage while the offset idler increases the stability of the machine while working over the front.

### Positive Pin Retention 2 (PPR2)

Track links with the PPR2 are provided as standard on the 390D/390D L. The PPR2 is designed to prevent looseness of the track pin in the track link and to reduce stress concentrations. The PPR2 system eliminates pin movement for increased service life.

### Carrier Rollers

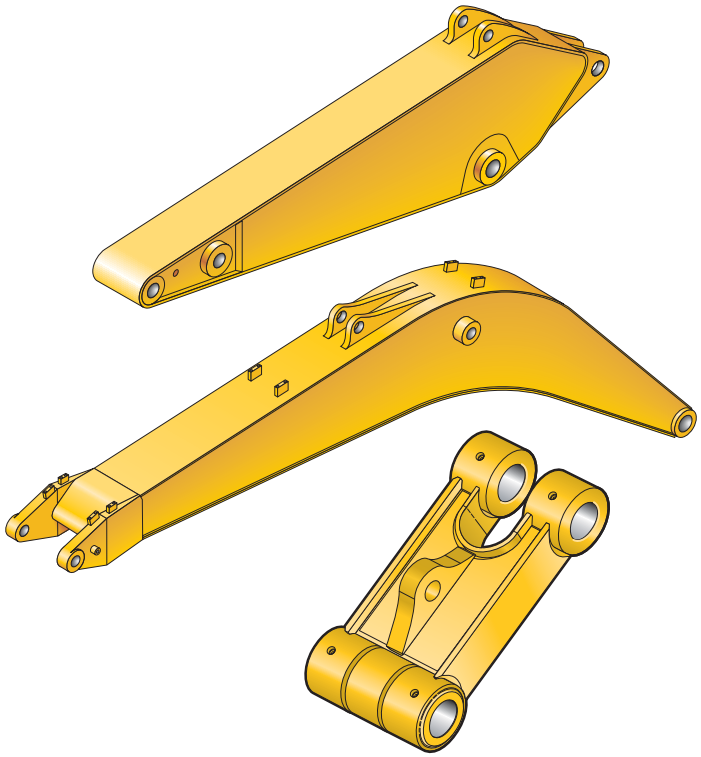
The carrier rollers use a floating Duo-Cone seal, which reduces the risk of leaking lubricating oil.

### Forged Idler

A forged idler for increased durability is standard on the 390D/390D L.

# Front Linkage

## Built to perform the toughest tasks



### Front Linkage

Cat® Excavator booms and sticks are built for performance and long service life.

- Casting and forgings are used at high stress areas such as the boom nose, boom foot, boom cylinder and stick foot.
- All booms and sticks are stress-relieved for optimal life and durability while minimizing weight for improved performance.
- All booms and sticks are ultrasonic inspected to ensure reliability.

### Bucket Linkage

Two bucket linkages are available for the 390D.

### Boom Construction

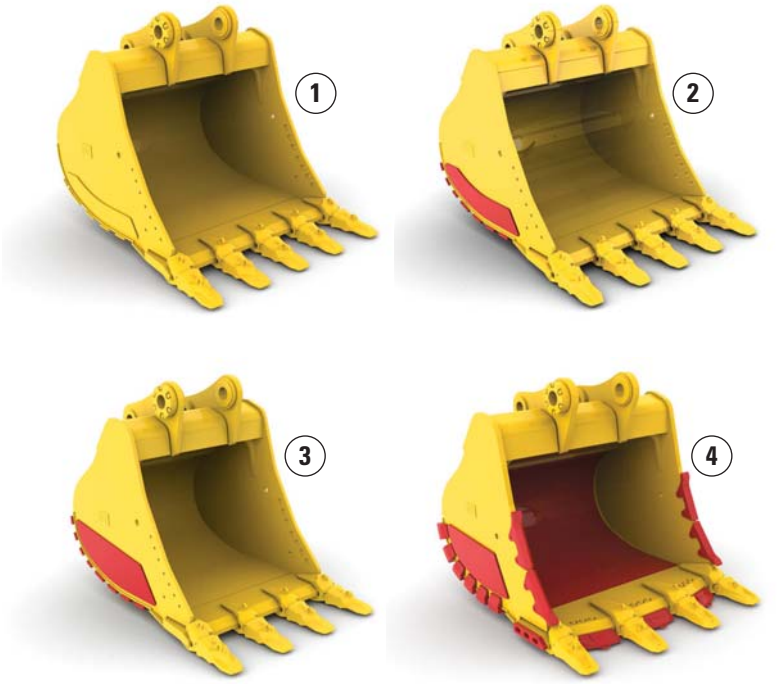
390D booms feature a large cross section to improve strength, reduce weight and maximize payload. Baffle plates reinforce the boom interior for higher rigidity.

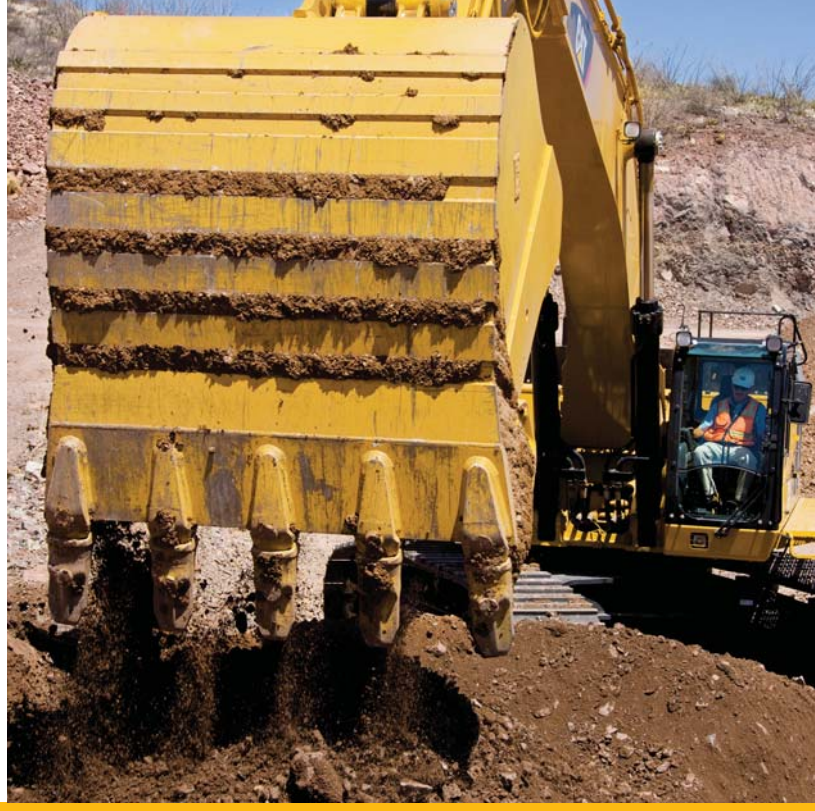
### Stick Construction

Sticks are made of high-tensile strength steel in a box-section design, making them strong and light. All sticks are reinforced with a thick baffle plate for added rigidity. The connection between stick and boom is made of forged steel, and a thick steel plate is used at the bucket connecting location for increased strength and rigidity at load-bearing points. An additional wear plate is added to the bottom plate to protect against damage. There are two reach sticks, three general purpose sticks and two mass sticks available to meet your needs.

### Linkage Pins

All front linkage pins have thick chrome plating, giving them high wear resistance. Each pin diameter is made to distribute the shear and bending loads associated with the stick and to help ensure long pin, boom and stick life.



# Buckets and Teeth

## Designed and built for rugged work

### Optimized Package

Caterpillar offers a wide range of buckets – each designed and field tested to function as an integral part of your excavator. All Cat® Buckets feature K Series™ Ground Engaging Tools (GET). Buckets are available in four levels of durability and are built to take full advantage of the machine's power.

### General Duty (GD)

General Duty buckets are designed for use in low impact, low abrasion material such as dirt, loam and mixed compositions of dirt and fine gravel.

### Heavy Duty (HD)

Heavy Duty buckets are the most popular and a good "centerline" choice. This bucket style is a good starting point when application conditions are not known. Heavy Duty buckets are designed for a wide range of impact and abrasion conditions, including mixed dirt, clay and rock.

### Severe Duty (SD)

Severe Duty buckets are designed for higher abrasion conditions such as shot granite. When compared to the Heavy Duty bucket, wear bars and wear plates are substantially thicker and larger for added protection.

### Extreme Duty (XD)

Extreme Duty buckets are designed for very high abrasion conditions such as granite quarries. Corner shrouds have been added, and side wear plates are larger for added protection.

*1) Severe Duty 2) Heavy Duty 3) General Duty 4) Extreme Duty*

# Work Tools

## Solutions for many applications

### Increase Machine Versatility

The Cat combination of machine and tool provides a total solution for just about any application. Work tools can be mounted either directly to the machine or to a quick coupler, making it fast and easy to release one work tool and pick up another.

### Quick Coupler

Cat quick couplers enable the operator to simply release one work tool and pick up another so your hydraulic excavator becomes extremely versatile.

### Work Tools

An extensive range of Cat Work Tools for the 390D includes buckets, grapples, shears, multi-processors and rippers. Each is designed to optimize the versatility and performance of your machine. Cat Work Tools and couplers are ready to work in a variety of applications, such as site and structure demolition, debris clean-up, truck loading, scrap processing and breaking road surfaces and bedrock.

### Hydraulic Kits

Caterpillar offers field-installed hydraulic kits designed to simplify the process of ordering and installing the right kit. Modular kit designs integrate Cat Work Tools with Cat Hydraulic Excavators. Every kit is easy to install. Hoses are pre-made, tubes are pre-bent and pre-painted and there are comprehensive instructions.



# Environment

## Built to meet a range of requirements

### Emissions

ACERT™ Technology is a differentiated technology that reduces emissions at the point of combustion. It capitalizes on proven Caterpillar leadership in three core engine systems: fuel, air and electronics.

### Electro Magnetic Compliance

The 390D meets the following EMC (Electro Magnetic Compliance) requirements:

- ISO 13766 Earth Moving Machinery – Electromagnetic compliance
- EU Directive 89/336/EEC
- Aus EMC Framework

### Fluid Management

Many serviceability elements are designed into the 390D to limit fluid spillage while performing routing maintenance.

### Filters

Hydraulic return filters are vertically mounted, capsule-type with shutoffs in the inlet and outlet ports.

### Ecology Drains

Ecology drains for the fuel and hydraulic tanks allow fluids to be captured in a container when draining the tanks.

### Certified Rebuild

When most other manufacturers' models require replacement, Cat equipment can be rebuilt using many remanufactured parts. This means less materials going to landfills.

# Service and Maintenance

## Fast, easy and safe access is built in

### Service Intervals

Long service intervals reduce maintenance costs. Engine oil, oil filter and fuel filters are rated at 500 hours.

### Oil Sample and Pressure Ports

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

### Hydraulic Capsule Filters

The return filters, or capsule filters, for the hydraulic system are located beside the hydraulic tank. The filter elements are removable without spilling hydraulic oil.

### Service Points

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

### Pilot Hydraulic System Filter

A pilot hydraulic system filter keeps contaminants from the pilot system and is located in the pump compartment.

### Remote Greasing Block

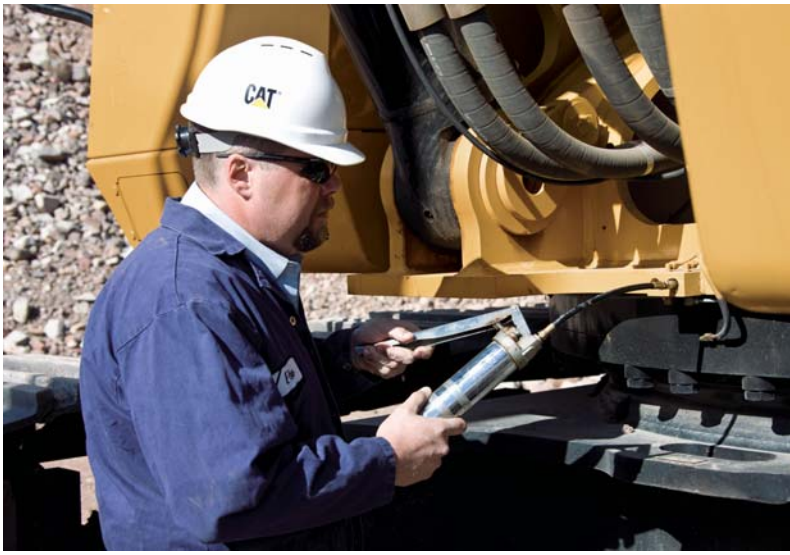
A concentrated remote greasing block on the boom delivers grease to hard-to-reach locations.

### Radial Seal Cleaner

The radial seal main air cleaner with precleaners has a double-layered filter element for more efficient filtration. No tools are required to change the element.

### Fuel-Water Separator

The fuel-water separator removes water from fuel, even when under pressure, and the water level can be monitored in the cab.

# Complete Customer Support

## Cat® dealer services to help you operate longer with lower costs


### Product Support

Cat dealers utilize a worldwide parts network to minimize machine downtime. Plus you can save money with Cat remanufactured components.

### Machine Selection

Make detailed comparisons of machines you are considering. What are the job requirements and machine attachments? What production is needed? Your Cat dealer can provide recommendations.

### Purchase

Consider financing options and day-to-day operating costs. Look at dealer services that can be included in the machine's cost to yield lower owning and operating costs over time.

### Customer Support Agreements

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

### Operation

Improving operating techniques can boost your profits. Your Cat dealer has videos, literature and other ideas to help you increase productivity. Caterpillar also offers simulators and certified operator training to help maximize the return on your investment.

### Replacement

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

## Engine

| | |
|---|---|
| Engine Model | Cat® C18 ACERT® (ATAAC) |
| Net Power – ISO 9249 | 390 kW (523 hp) |
| Net Power – SAE J1349 | 390 kW (523 hp) |
| Net Power – EEC 80/1269 | 390 kW (523 hp) |
| Bore | 145 mm |
| Stroke | 183 mm |
| Displacement | 18.1 L |

- The 390D meets worldwide emission requirements.
- No engine power derating required below 2300 m altitude.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.

## Weights

| | |
|---|---|
| Operating Weight – Long Undercarriage | 86 190 kg |

- 8.4 m GP boom, R4.4 m stick, 4.6 m³ HD bucket and 650 mm shoes.

## Track

| | |
|---|---|
| Number of Shoes (each side) – Long Undercarriage | 51 |
| Number of Track Rollers (each side) | 9 |
| Number of Carrier Rollers (each side) | 3 |

## Swing Mechanism

| | |
|---|---|
| Swing Speed | 6.2 rpm |
| Swing Torque | 260 kN·m |

## Drive

| | |
|---|---|
| Maximum Travel Speed | 4.5 km/h |
| Maximum Drawbar Pull | 590 kN |

## Hydraulic System

| | |
|---|---|
| Main System – Maximum Flow (Total) | 980 L/min |
| Swing System – Maximum Flow | 460 L/min |
| Maximum Pressure – Equipment – Normal | 35 000 kPa |
| Maximum Pressure – Travel | 35 000 kPa |
| Maximum Pressure – Swing | 26 000 kPa |
| Pilot System – Maximum Flow | 90 L/min |
| Pilot System – Maximum Pressure | 4120 kPa |
| Boom Cylinder – Bore | 210 mm |
| Boom Cylinder – Stroke | 1967 mm |
| Stick Cylinder – Bore | 220 mm |
| Stick Cylinder – Stroke | 2262 mm |
| HB2 Family Bucket Cylinder – Bore | 200 mm |
| HB2 Family Bucket Cylinder – Stroke | 1451 mm |
| JC Family Bucket Cylinder – Bore | 220 mm |
| JC Family Bucket Cylinder – Stroke | 1586 mm |

## Service Refill Capacities

| | |
|---|---|
| Fuel Tank Capacity | 1240 L |
| Cooling System | 101 L |
| Engine Oil | 65 L |
| Swing Drive (each) | 19 L |
| Final Drive (each) | 21 L |
| Hydraulic System (including tank) | 995 L |

## Sound Performance

| | |
|---|---|
| Performance | ANSI/SAE J1166 OCT98 |

- Operator Sound – The operator sound level measured according to the procedures specified in ISO 6394:1998 is 85 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with doors and windows closed.
- Exterior Sound – The labeled spectator sound power level measured according to the test procedures and conditions specified in 2000/14/EC is 108 dB(A).
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

## Standards

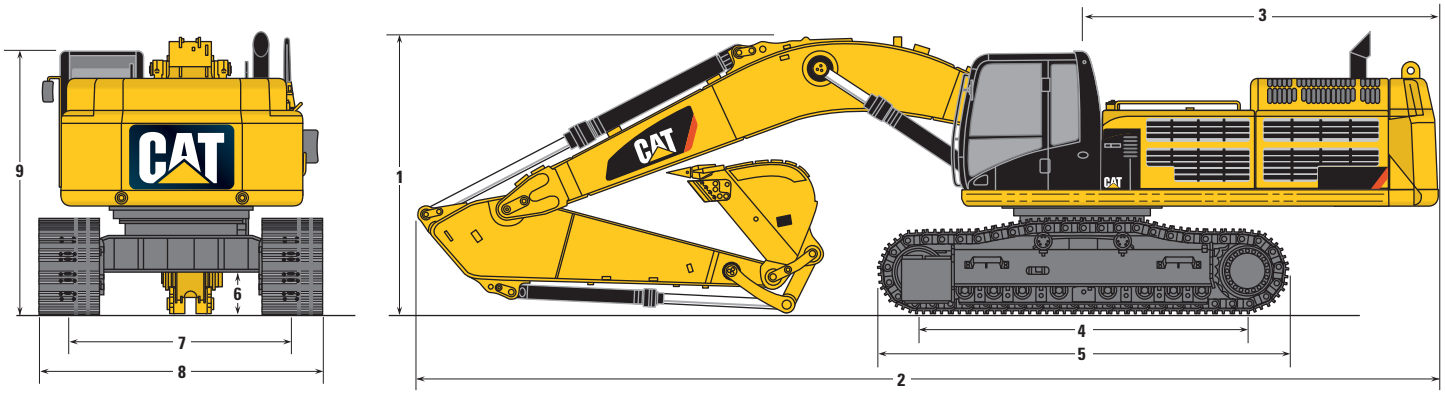
| | |
|---|---|
| Brakes | SAE J1026 APR90 |
| Cab/FOGS | SAE J1356 FEB88/ ISO 10262 |

- ISO 10262 OPS, front and top
- ISO J1356 FOGS, front and top

# 390D/390D L Hydraulic Excavator Specifications

## Dimensions

All dimensions are approximate




| | | | Reach Boom 10.0 m | | General Purpose Boom 8.4 m | | | Mass Boom 7.25 m | |
|---|---|---|---|---|---|---|---|---|---|
| | **Stick** | | **R5.5 m** | **R4.4 m** | **R5.5 m** | **R4.4 m** | **GP2.92 m** | **M3.4 m** | **M2.92 m** |
| | **Bucket** | | **HB3.9 m³** | **HB3.9 m³** | **HB4.6 m³** | **HB4.6 m³** | **JC4.6 m³** | **JC6.0 m³** | **JC6.0 m³** |
| **1** | Shipping Height | mm | 5430 | 5030 | 5840 | 5290 | 4970 | 5310 | 4900 |
| **2** | Shipping Length | mm | 16 280 | 16 320 | 14 490 | 14 700 | 14 910 | 13 560 | 13 690 |
| **3** | Tail Swing Radius | mm | 4680 | 4680 | 4680 | 4680 | 4680 | 4680 | 4680 |
| **4** | Length to Center of Rollers*** | mm | 5120 | 5120 | 5120 | 5120 | 5120 | 5120 | 5120 |
| **5** | Track Length**** | mm | 6360 | 6360 | 6360 | 6360 | 6360 | 6360 | 6360 |
| **6** | Ground Clearance | mm | 900 | 900 | 900 | 900 | 900 | 900 | 900 |
| **7** | Track Gauge (Shipping)* | mm | 2750 | 2750 | 2750 | 2750 | 2750 | 2750 | 2750 |
| **8** | Transport Width** | mm | 4260 (LC) | 4260 (LC) | 4260 (LC) | 4260 (LC) | 4260 (LC) | 4260 (LC) | 4260 (LC) |
| **9** | Cab Height | mm | 3760 | 3760 | 3760 | 3760 | 3760 | 3760 | 3760 |

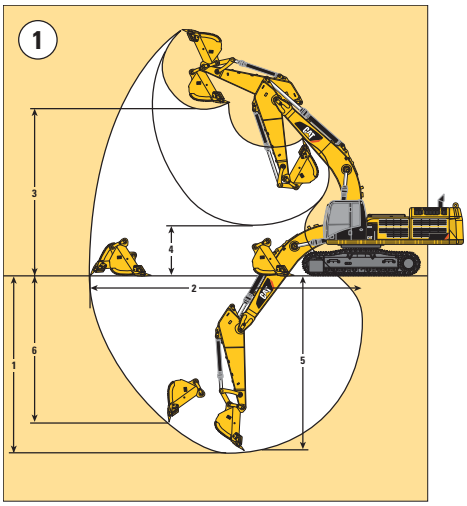
* Track gauge in extended (working) position: 3510 mm.

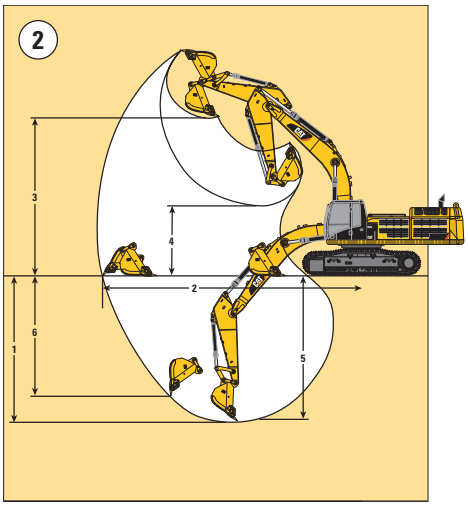
** Transport width shown for 750 mm.
Add 150 mm for 900 mm shoes.
Subtract 100 mm for 650 mm shoes.

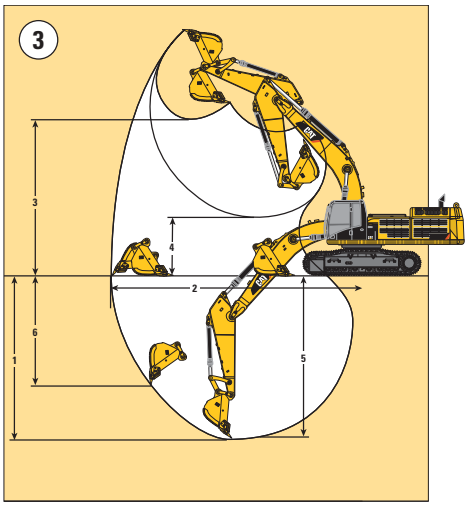
*** STD 4600 mm (STD), 5120 mm (LC).

**** STD 5840 mm (STD), 6360 mm (LC).

## Working Ranges




| | | | 1 Reach Boom 10.0 m | | 2 General Purpose Boom 8.4 m | | | 3 Mass Boom 7.25 m | |
|---|---|---|---|---|---|---|---|---|---|
| | **Stick** | | **R5.5 m** | **R4.4 m** | **R5.5 m** | **R4.4 m** | **GP2.92 m** | **M3.4 m** | **M2.92 m** |
| | **Bucket** | | **HB3.9 m³** | **HB3.9 m³** | **HB4.6 m³** | **HB4.6 m³** | **JC4.6 m³** | **JC6.0 m³** | **JC6.0 m³** |
| **1** | Maximum Digging Depth | mm | 11 810 | 10 710 | 10 760 | 9660 | 8220 | 7650 | 7170 |
| **2** | Maximum Reach at Ground Line | mm | 17 250 | 16 230 | 15 730 | 14 690 | 13 480 | 12 690 | 12 240 |
| **3** | Maximum Loading Height | mm | 10 950 | 10 520 | 9720 | 9270 | 8910 | 8200 | 7980 |
| **4** | Minimum Loading Height | mm | 3310 | 4410 | 1940 | 3040 | 4480 | 3200 | 3670 |
| **5** | Maximum Depth Cut for 2240 mm Level Bottom | mm | 11 710 | 10 600 | 10 660 | 9550 | 8080 | 7520 | 7030 |
| **6** | Maximum Vertical Wall Digging Depth | mm | 8390 | 7380 | 7860 | 6850 | 5950 | 5100 | 4700 |
| | Bucket Digging Force | | | | | | | | |
| | (SAE) | kN | 322 | 321 | 322 | 321 | 411 | 404 | 404 |
| | (ISO) | kN | 365 | 363 | 365 | 363 | 470 | 471 | 470 |
| | Stick Digging Force | | | | | | | | |
| | (SAE) | kN | 230 | 268 | 230 | 268 | 337 | 314 | 342 |
| | (ISO) | kN | 236 | 276 | 236 | 276 | 350 | 325 | 356 |

# 390D/390D L Hydraulic Excavator Specifications

## Operating Weight* and Ground Pressure

| | Track | | | | | |
|---|---|---|---|---|---|---|
| | 900 mm Shoes | | 750 mm Shoes | | 650 mm Shoes | |
| | kg | kPa | kg | kPa | kg | kPa |
| Reach Boom – 10.0 m | | | | | | |
| Bucket – 3.9 $m^3$ | | | | | | |
| R5.5 m | 90 070 | 88.3 | 88 950 | 104.7 | 88 080 | 119.6 |
| R4.4 m | 89 570 | 87.8 | 88 450 | 104.1 | 87 580 | 118.9 |
| General Purpose Boom – 8.4 m | | | | | | |
| Bucket – 4.6 $m^3$ | | | | | | |
| R5.5 m | 88 690 | 87.0 | 87 570 | 103.1 | 86 690 | 117.7 |
| R4.4 m | 88 180 | 86.5 | 87 070 | 102.5 | 86 190 | 117.1 |
| GP2.92 m | 90 680 | 88.9 | 89 570 | 105.4 | 88 690 | 120.4 |
| Mass Boom – 7.25 m | | | | | | |
| Bucket – 6.0 $m^3$ | | | | | | |
| M3.4 m | 92 380 | 90.6 | 91 260 | 107.4 | 90 390 | 122.7 |
| M2.92 m | 92 130 | 90.4 | 91 010 | 107.1 | 90 140 | 122.4 |

* Operating weight includes full fuel tank and 75 kg operator.

## Major Component Weights

| | kg |
|---|---|
| Base machine with counterweight and 750 mm shoes (without front linkage) | 67 950 |
| Two boom cylinders | 1720 |
| Counterweight – GP | |
| Removal type | 12 410 |
| Non-removal type | 12 410 |
| Boom (includes lines, pins, stick cylinder) | |
| Reach Boom – 10.0 m | 9750 |
| General Purpose Boom – 8.4 m | 8310 |
| Mass Boom – 7.25 m | 8480 |
| Stick (includes lines, pins, bucket cylinder and linkage) | |
| R5.5 m | 5430 |
| R4.4 m | 4930 |
| GP2.92 m | 4910 |
| M3.4 m | 5420 |
| M2.92 m | 5170 |

## 390D Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

**Boom** – 10.0 m
**Stick** – R5.5 m
**Coupler** – N/A
**Shoes** – 750 mm double grouser
**Bucket** – None

| | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | 10.5 m | | 12.0 m | | 13.5 m | | 15.0 m | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | m |
| 12.0 m | kg | | | | | | | | | | | | | | | | | | | *9750 | *9750 | 11.82 |
| 10.5 m | kg | | | | | | | | | | | | | *12 200 | *12 200 | | | | | *9400 | *9400 | 12.87 |
| 9.0 m | kg | | | | | | | | | | | *13 700 | *13 700 | *12 900 | 12 100 | *10 150 | 9600 | | | *9250 | *9250 | 13.67 |
| 7.5 m | kg | | | | | | | | | | | *14 400 | *14 400 | *13 300 | 11 800 | 12 300 | 9450 | | | *9250 | 8450 | 14.27 |
| 6.0 m | kg | | | | | | | *20 250 | *20 250 | *17 250 | *17 250 | *15 250 | 14 250 | *13 850 | 11 400 | 12 050 | 9250 | | | *9400 | 7800 | 14.69 |
| 4.5 m | kg | | | | | *29 300 | *29 300 | *22 600 | 22 450 | *18 750 | 17 150 | *16 200 | 13 550 | 14 250 | 10 950 | 11 750 | 8950 | | | *9650 | 7400 | 14.94 |
| 3.0 m | kg | | | | | *20 200 | *20 200 | *24 700 | 20 800 | *20 100 | 16 100 | 16 850 | 12 850 | 13 750 | 10 450 | 11 400 | 8650 | 9600 | 7150 | 9550 | 7150 | 15.04 |
| 1.5 m | kg | | | | | *15 750 | *15 750 | *26 100 | 19 600 | 20 300 | 15 250 | 16 250 | 12 250 | 13 350 | 10 050 | 11 150 | 8350 | | | 9450 | 7000 | 14.99 |
| Ground Line | kg | | | | | *17 000 | *17 000 | 25 550 | 18 800 | 19 600 | 14 600 | 15 750 | 11 800 | 12 950 | 9700 | 10 900 | 8150 | | | 9500 | 7050 | 14.78 |
| –1.5 m | kg | | | *11 350 | *11 350 | *20 750 | *20 750 | 25 100 | 18 350 | 19 200 | 14 200 | 15 400 | 11 450 | 12 700 | 9450 | 10 750 | 8000 | | | 9800 | 7250 | 14.42 |
| –3.0 m | kg | *12 300 | *12 300 | *16 800 | *16 800 | *26 150 | 25 550 | 24 900 | 18 200 | 18 950 | 14 000 | 15 200 | 11 250 | 12 600 | 9350 | 10 700 | 7950 | | | 10 300 | 7650 | 13.88 |
| –4.5 m | kg | *17 900 | *17 900 | *23 000 | *23 000 | *29 200 | 25 750 | *24 150 | 18 250 | 18 950 | 14 000 | 15 200 | 11 250 | 12 600 | 9350 | | | | | 11 200 | 8300 | 13.14 |
| –6.0 m | kg | *24 100 | *24 100 | *30 400 | *30 400 | *26 050 | *26 050 | *21 850 | 18 500 | *18 350 | 14 150 | 15 350 | 11 400 | *12 400 | 9550 | | | | | *12 000 | 9400 | 12.18 |
| –7.5 m | kg | | | *25 300 | *25 300 | *21 700 | *21 700 | *18 450 | *18 450 | *15 400 | 14 550 | *12 350 | 11 800 | | | | | | | *11 350 | 11 250 | 10.91 |
| –9.0 m | kg | | | | | *15 650 | *15 650 | *13 300 | *13 300 | *10 400 | *10 400 | | | | | | | | | *9800 | *9800 | 9.24 |

**Boom** – 10.0 m
**Stick** – R5.5 m
**Coupler** – N/A
**Shoes** – 650 mm double grouser
**Bucket** – None

| | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | 10.5 m | | 12.0 m | | 13.5 m | | 15.0 m | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | m |
| 12.0 m | kg | | | | | | | | | | | | | | | | | | | *9750 | *9750 | 11.82 |
| 10.5 m | kg | | | | | | | | | | | | | *12 200 | 12 150 | | | | | *9400 | *9400 | 12.87 |
| 9.0 m | kg | | | | | | | | | | | *13 700 | *13 700 | *12 900 | 12 000 | *10 150 | 9500 | | | *9250 | 9250 | 13.67 |
| 7.5 m | kg | | | | | | | | | | | *14 400 | *14 400 | *13 300 | 11 700 | 12 150 | 9350 | | | *9250 | 8350 | 14.27 |
| 6.0 m | kg | | | | | | | *20 250 | *20 250 | *17 250 | *17 250 | *15 250 | 14 100 | *13 850 | 11 300 | 11 900 | 9150 | | | *9400 | 7750 | 14.69 |
| 4.5 m | kg | | | | | *29 300 | *29 300 | *22 600 | 22 200 | *18 750 | 16 950 | *16 200 | 13 400 | 14 100 | 10 800 | 11 600 | 8850 | | | *9650 | 7300 | 14.94 |
| 3.0 m | kg | | | | | *20 200 | *20 200 | *24 700 | 20 600 | *20 100 | 15 950 | 16 700 | 12 700 | 13 600 | 10 350 | 11 300 | 8550 | 9450 | 7100 | 9400 | 7050 | 15.04 |
| 1.5 m | kg | | | | | *15 750 | *15 750 | *26 100 | 19 350 | 20 100 | 15 100 | 16 050 | 12 100 | 13 200 | 9950 | 11 000 | 8250 | | | 9300 | 6950 | 14.99 |
| Ground Line | kg | | | | | *17 000 | *17 000 | 25 300 | 18 550 | 19 400 | 14 450 | 15 550 | 11 650 | 12 850 | 9600 | 10 750 | 8050 | | | 9400 | 6950 | 14.78 |
| –1.5 m | kg | | | *11 350 | *11 350 | *20 750 | *20 750 | 24 800 | 18 150 | 19 000 | 14 050 | 15 200 | 11 300 | 12 550 | 9350 | 10 600 | 7900 | | | 9650 | 7150 | 14.42 |
| –3.0 m | kg | *12 300 | *12 300 | *16 800 | *16 800 | *26 150 | 25 250 | 24 650 | 18 000 | 18 750 | 13 850 | 15 050 | 11 150 | 12 450 | 9250 | 10 550 | 7850 | | | 10 200 | 7550 | 13.88 |
| –4.5 m | kg | *17 900 | *17 900 | *23 000 | *23 000 | *29 200 | 25 500 | *24 150 | 18 050 | 18 750 | 13 800 | 15 000 | 11 100 | 12 450 | 9250 | | | | | 11 050 | 8200 | 13.14 |
| –6.0 m | kg | *24 100 | *24 100 | *30 400 | *30 400 | *26 050 | 25 900 | *21 850 | 18 300 | *18 350 | 14 000 | 15 150 | 11 250 | *12 400 | 9450 | | | | | *12 000 | 9300 | 12.18 |
| –7.5 m | kg | | | *25 300 | *25 300 | *21 700 | *21 700 | *18 450 | *18 450 | *15 400 | 14 400 | *12 350 | 11 650 | | | | | | | *11 350 | 11 100 | 10.91 |
| –9.0 m | kg | | | | | *15 650 | *15 650 | *13 300 | *13 300 | *10 400 | *10 400 | | | | | | | | | *9800 | *9800 | 9.24 |

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

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

# 390D/390D L Hydraulic Excavator Specifications

## 390D Mass Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

**Boom** – 7.25 m
**Stick** – M3.4 m
**Coupler** – N/A
**Shoes** – 750 mm double grouser
**Bucket** – None

| | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | m |
| 10.5 m | kg | | | | | | | | | | | *17 400 | *17 400 | 6.96 |
| 9.0 m | kg | | | | | | | *21 650 | *21 650 | | | *15 900 | *15 900 | 8.36 |
| 7.5 m | kg | | | | | | | *23 500 | *23 500 | *18 950 | 18 650 | *15 350 | *15 350 | 9.32 |
| 6.0 m | kg | | | | | *29 350 | *29 350 | *24 900 | 24 650 | *22 200 | 18 300 | *15 250 | *15 250 | 9.95 |
| 4.5 m | kg | | | *45 600 | *45 600 | *33 050 | *33 050 | *26 800 | 23 600 | 22 950 | 17 800 | *15 600 | 14 250 | 10.33 |
| 3.0 m | kg | | | | | *36 200 | 31 500 | *28 500 | 22 600 | 22 350 | 17 200 | *16 350 | 13 650 | 10.47 |
| 1.5 m | kg | | | | | *37 700 | 30 200 | 28 700 | 21 750 | 21 800 | 16 700 | *17 600 | 13 550 | 10.40 |
| Ground Line | kg | | | *27 950 | *27 950 | *37 150 | 29 500 | 28 150 | 21 250 | 21 450 | 16 400 | 18 200 | 14 000 | 10.10 |
| –1.5 m | kg | *23 550 | *23 550 | *41 700 | *41 700 | *34 700 | 29 350 | *27 650 | 21 050 | 21 400 | 16 300 | 19 700 | 15 100 | 9.55 |
| –3.0 m | kg | *38 700 | *38 700 | *37 000 | *37 000 | *30 150 | 29 550 | *24 000 | 21 200 | | | *18 800 | 17 350 | 8.70 |
| –4.5 m | kg | | | *27 250 | *27 250 | *22 550 | *22 550 | | | | | *16 350 | *16 350 | 7.46 |

**Boom** – 7.25 m
**Stick** – M3.4 m
**Coupler** – N/A
**Shoes** – 650 mm double grouser
**Bucket** – None

| | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | m |
| 10.5 m | kg | | | | | | | | | | | *17 400 | *17 400 | 6.96 |
| 9.0 m | kg | | | | | | | *21 650 | *21 650 | | | *15 900 | *15 900 | 8.36 |
| 7.5 m | kg | | | | | | | *23 500 | *23 500 | *18 950 | 18 500 | *15 350 | *15 350 | 9.32 |
| 6.0 m | kg | | | | | *29 350 | *29 350 | *24 900 | 24 450 | *22 200 | 18 150 | *15 250 | *15 250 | 9.95 |
| 4.5 m | kg | | | *45 600 | *45 600 | *33 050 | *33 050 | *26 800 | 23 400 | 22 750 | 17 650 | *15 600 | 14 100 | 10.33 |
| 3.0 m | kg | | | | | *36 200 | 31 200 | *28 500 | 22 400 | 22 150 | 17 050 | *16 350 | 13 500 | 10.47 |
| 1.5 m | kg | | | | | *37 700 | 29 900 | 28 450 | 21 550 | 21 600 | 16 550 | 17 450 | 13 400 | 10.40 |
| Ground Line | kg | | | *27 950 | *27 950 | *37 150 | 29 250 | 27 900 | 21 050 | 21 250 | 16 250 | 18 050 | 13 850 | 10.10 |
| –1.5 m | kg | *23 550 | *23 550 | *41 700 | *41 700 | *34 700 | 29 050 | *27 650 | 20 850 | 21 200 | 16 150 | 19 500 | 14 950 | 9.55 |
| –3.0 m | kg | *38 700 | *38 700 | *37 000 | *37 000 | *30 150 | 29 300 | *24 000 | 21 000 | | | *18 800 | 17 150 | 8.70 |
| –4.5 m | kg | | | *27 250 | *27 250 | *22 550 | *22 550 | | | | | *16 350 | *16 350 | 7.46 |

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

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

## 390D Mass Boom Lift Capacities

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

**Boom** – 7.25 m
**Stick** – M2.92 m
**Coupler** – N/A
**Shoes** – 750 mm double grouser
**Bucket** – None

| | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | m |
| 10.5 m | kg | | | | | | | | | | | *20 950 | *20 950 | 6.27 |
| 9.0 m | kg | | | | | | | *22 600 | *22 600 | | | *18 950 | *18 950 | 7.81 |
| 7.5 m | kg | | | | | | | *24 400 | *24 400 | | | *18 200 | *18 200 | 8.82 |
| 6.0 m | kg | | | *39 800 | *39 800 | *30 550 | *30 550 | *25 700 | 24 200 | *22 750 | 18 000 | *18 100 | 16 400 | 9.49 |
| 4.5 m | kg | | | | | *34 100 | 32 650 | *27 400 | 23 200 | 22 650 | 17 500 | *18 550 | 15 050 | 9.89 |
| 3.0 m | kg | | | | | *36 800 | 30 850 | *28 850 | 22 200 | 22 100 | 16 950 | 18 650 | 14 350 | 10.04 |
| 1.5 m | kg | | | | | *37 550 | 29 750 | 28 400 | 21 500 | 21 600 | 16 550 | 18 650 | 14 300 | 9.96 |
| Ground Line | kg | | | *25 950 | *25 950 | *36 300 | 29 250 | 27 950 | 21 050 | 21 350 | 16 300 | 19 400 | 14 850 | 9.64 |
| –1.5 m | kg | | | *40 350 | *40 350 | *33 250 | 29 250 | *26 650 | 20 950 | *20 650 | 16 350 | *20 300 | 16 200 | 9.07 |
| –3.0 m | kg | | | *33 300 | *33 300 | *27 950 | *27 950 | *22 050 | 21 250 | | | *18 850 | *18 850 | 8.17 |
| –4.5 m | kg | | | | | *18 900 | *18 900 | | | | | *15 600 | *15 600 | 6.77 |

**Boom** – 7.25 m
**Stick** – M2.92 m
**Coupler** – N/A
**Shoes** – 650 mm double grouser
**Bucket** – None

| | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | m |
| 10.5 m | kg | | | | | | | | | | | *20 950 | *20 950 | 6.27 |
| 9.0 m | kg | | | | | | | *22 600 | *22 600 | | | *18 950 | *18 950 | 7.81 |
| 7.5 m | kg | | | | | | | *24 400 | *24 400 | | | *18 200 | *18 200 | 8.82 |
| 6.0 m | kg | | | *39 800 | *39 800 | *30 550 | *30 550 | *25 700 | 24 000 | *22 750 | 17 800 | *18 100 | 16 250 | 9.49 |
| 4.5 m | kg | | | | | *34 100 | 32 400 | *27 400 | 23 000 | 22 450 | 17 350 | *18 550 | 14 900 | 9.89 |
| 3.0 m | kg | | | | | *36 800 | 30 600 | *28 850 | 22 000 | 21 850 | 16 800 | 18 500 | 14 250 | 10.04 |
| 1.5 m | kg | | | | | *37 550 | 29 450 | 28 150 | 21 250 | 21 400 | 16 350 | 18 450 | 14 150 | 9.96 |
| Ground Line | kg | | | *25 950 | *25 950 | *36 300 | 29 000 | 27 700 | 20 850 | 21 150 | 16 150 | 19 200 | 14 700 | 9.64 |
| –1.5 m | kg | | | *40 350 | *40 350 | *33 250 | 28 950 | *26 650 | 20 750 | *20 650 | 16 150 | *20 300 | 16 000 | 9.07 |
| –3.0 m | kg | | | *33 300 | *33 300 | *27 950 | *27 950 | *22 050 | 21 050 | | | *18 850 | 18 800 | 8.17 |
| –4.5 m | kg | | | | | *18 900 | *18 900 | | | | | *15 600 | *15 600 | 6.77 |

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

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

# 390D/390D L Hydraulic Excavator Specifications

## 390D L Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

**Boom** – 10.0 m
**Stick** – R5.5 m

**Coupler** – N/A
**Shoes** – 750 mm double grouser

**Bucket** – None

| | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | 10.5 m | | 12.0 m | | 13.5 m | | 15.0 m | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | m |
| 12.0 m | kg | | | | | | | | | | | | | | | | | | | *9750 | *9750 | 11.82 |
| 10.5 m | kg | | | | | | | | | | | | | *12 200 | *12 200 | | | | | *9400 | *9400 | 12.87 |
| 9.0 m | kg | | | | | | | | | | | *13 700 | *13 700 | *12 900 | 12 350 | *10 150 | 9800 | | | *9250 | *9250 | 13.67 |
| 7.5 m | kg | | | | | | | | | | | *14 400 | *14 400 | *13 300 | 12 050 | *12 500 | 9700 | | | *9250 | 8650 | 14.27 |
| 6.0 m | kg | | | | | | | *20 250 | *20 250 | *17 250 | *17 250 | *15 250 | 14 500 | *13 850 | 11 650 | *12 800 | 9450 | | | *9400 | 8000 | 14.69 |
| 4.5 m | kg | | | | | *29 300 | *29 300 | *22 600 | *22 600 | *18 750 | 17 500 | *16 200 | 13 850 | *14 450 | 11 200 | *13 150 | 9150 | | | *9650 | 7600 | 14.94 |
| 3.0 m | kg | | | | | *20 200 | *20 200 | *24 700 | 21 250 | *20 100 | 16 450 | *17 100 | 13 150 | *15 000 | 10 700 | *13 450 | 8850 | *10 400 | 7350 | *10 050 | 7300 | 15.04 |
| 1.5 m | kg | | | | | *15 750 | *15 750 | *26 100 | 20 000 | *21 150 | 15 600 | *17 850 | 12 550 | *15 500 | 10 300 | 13 200 | 8600 | | | *10 600 | 7200 | 14.99 |
| Ground Line | kg | | | | | *17 000 | *17 000 | *26 700 | 19 200 | *21 700 | 14 950 | *18 250 | 12 050 | 15 400 | 9950 | 12 950 | 8350 | | | 11 300 | 7250 | 14.78 |
| –1.5 m | kg | | | *11 350 | *11 350 | *20 750 | *20 750 | *26 550 | 18 800 | *21 800 | 14 550 | *18 350 | 11 750 | 15 150 | 9700 | 12 800 | 8200 | | | 11 650 | 7450 | 14.42 |
| –3.0 m | kg | *12 300 | *12 300 | *16 800 | *16 800 | *26 150 | 26 150 | *25 700 | 18 650 | *21 300 | 14 350 | *17 950 | 11 550 | 15 000 | 9600 | 12 750 | 8150 | | | 12 300 | 7850 | 13.88 |
| –4.5 m | kg | *17 900 | *17 900 | *23 000 | *23 000 | *29 200 | 26 350 | *24 150 | 18 700 | *20 200 | 14 350 | *17 050 | 11 550 | *14 350 | 9600 | | | | | *12 300 | 8550 | 13.14 |
| –6.0 m | kg | *24 100 | *24 100 | *30 400 | *30 400 | *26 050 | *26 050 | *21 850 | 18 950 | *18 350 | 14 500 | *15 350 | 11 700 | *12 400 | 9800 | | | | | *12 000 | 9650 | 12.18 |
| –7.5 m | kg | | | *25 300 | *25 300 | *21 700 | *21 700 | *18 450 | *18 450 | *15 400 | 14 900 | *12 350 | 12 100 | | | | | | | *11 350 | *11 350 | 10.91 |
| –9.0 m | kg | | | | | *15 650 | *15 650 | *13 300 | *13 300 | *10 400 | *10 400 | | | | | | | | | *9800 | *9800 | 9.24 |

**Boom** – 10.0 m
**Stick** – R4.4 m

**Coupler** – N/A
**Shoes** – 750 mm double grouser

**Bucket** – None

| | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | 10.5 m | | 12.0 m | | 13.5 m | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | m |
| 12.0 m | kg | | | | | | | | | | | *12 950 | *12 950 | | | | | *12 950 | *12 950 | 10.50 |
| 10.5 m | kg | | | | | | | | | | | *14 550 | *14 550 | | | | | *12 450 | *12 450 | 11.67 |
| 9.0 m | kg | | | | | | | | | | | *14 850 | *14 850 | *13 950 | 11 850 | | | *12 250 | 10 800 | 12.55 |
| 7.5 m | kg | | | | | | | | | *17 250 | *17 250 | *15 450 | 14 600 | *14 150 | 11 600 | | | *12 250 | 9650 | 13.20 |
| 6.0 m | kg | | | | | *28 250 | *28 250 | *22 100 | *22 100 | *18 500 | 17 800 | *16 200 | 14 000 | *14 600 | 11 250 | *13 450 | 9100 | *12 450 | 8900 | 13.66 |
| 4.5 m | kg | | | | | | | *24 250 | 21 700 | *19 850 | 16 750 | *17 000 | 13 350 | *15 050 | 10 850 | 13 500 | 8900 | *12 800 | 8400 | 13.93 |
| 3.0 m | kg | | | | | | | *25 900 | 20 250 | *20 950 | 15 850 | *17 750 | 12 750 | *15 500 | 10 450 | 13 250 | 8650 | 12 450 | 8100 | 14.04 |
| 1.5 m | kg | | | | | | | *26 700 | 19 350 | *21 650 | 15 150 | *18 250 | 12 250 | 15 550 | 10 100 | 13 050 | 8450 | 12 350 | 7950 | 13.98 |
| Ground Line | kg | | | | | *13 200 | *13 200 | *26 650 | 18 850 | *21 850 | 14 650 | *18 400 | 11 850 | 15 250 | 9800 | 12 900 | 8300 | 12 550 | 8050 | 13.76 |
| –1.5 m | kg | | | | | *20 100 | *20 100 | *25 850 | 18 650 | *21 500 | 14 400 | *18 150 | 11 650 | 15 100 | 9650 | | | 13 000 | 8350 | 13.36 |
| –3.0 m | kg | | | *17 950 | *17 950 | *28 350 | 26 450 | *24 450 | 18 700 | *20 600 | 14 350 | *17 400 | 11 600 | *14 700 | 9650 | | | *13 200 | 8900 | 12.78 |
| –4.5 m | kg | | | *26 800 | *26 800 | *26 100 | *26 100 | *22 350 | 18 900 | *18 950 | 14 500 | *15 950 | 11 700 | | | | | *12 950 | 9850 | 11.98 |
| –6.0 m | kg | | | *24 850 | *24 850 | *22 350 | *22 350 | *19 350 | 19 300 | *16 400 | 14 800 | *13 300 | 12 050 | | | | | *12 350 | 11 500 | 10.90 |
| –7.5 m | kg | | | | | *17 100 | *17 100 | *14 900 | *14 900 | *12 100 | *12 100 | | | | | | | *10 950 | *10 950 | 9.47 |

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

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

## 390D L General Purpose Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

**Boom** – 8.4 m
**Stick** – R5.5 m
**Coupler** – N/A
**Shoes** – 650 mm double grouser
**Bucket** – None

| | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | 10.5 m | | 12.0 m | | 13.5 m | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | m |
| 12.0 m | kg | | | | | | | | | | | | | | | | | *9050 | *9050 | 9.83 |
| 10.5 m | kg | | | | | | | | | | | *10 950 | *10 950 | | | | | *8500 | *8500 | 11.07 |
| 9.0 m | kg | | | | | | | | | | | *13 000 | *13 000 | | | | | *8200 | *8200 | 12.00 |
| 7.5 m | kg | | | | | | | | | | | *14 450 | *14 450 | *11 500 | *11 500 | | | *8050 | *8050 | 12.68 |
| 6.0 m | kg | | | | | | | | | *17 550 | *17 550 | *16 200 | 15 150 | *13 500 | 12 050 | | | *8100 | *8100 | 13.15 |
| 4.5 m | kg | | | | | *27 100 | *27 100 | *22 200 | *22 200 | *19 200 | 18 650 | *17 150 | 14 650 | *15 400 | 11 750 | | | *8250 | *8250 | 13.43 |
| 3.0 m | kg | | | | | *31 500 | *31 500 | *24 800 | 23 350 | *20 800 | 17 800 | *18 200 | 14 100 | *16 300 | 11 400 | *9000 | *9000 | *8600 | *8600 | 13.54 |
| 1.5 m | kg | | | | | *34 800 | 30 650 | *26 950 | 22 150 | *22 200 | 17 050 | *19 050 | 13 600 | 16 500 | 11 100 | | | *9050 | *9050 | 13.48 |
| Ground Line | kg | | | *19 000 | *19 000 | *36 450 | 29 400 | *28 300 | 21 300 | *23 150 | 16 450 | *19 650 | 13 150 | 16 250 | 10 850 | | | *9750 | 9350 | 13.25 |
| –1.5 m | kg | *14 250 | *14 250 | *23 200 | *23 200 | *36 600 | 28 750 | *28 750 | 20 700 | *23 500 | 16 000 | 19 500 | 12 900 | 16 050 | 10 650 | | | *10 700 | 9700 | 12.84 |
| –3.0 m | kg | *20 200 | *20 200 | *29 400 | *29 400 | *35 350 | 28 500 | *28 150 | 20 450 | *23 050 | 15 800 | *19 250 | 12 750 | *15 550 | 10 600 | | | *12 200 | 10 350 | 12.23 |
| –4.5 m | kg | *27 050 | *27 050 | *37 750 | *37 750 | *32 850 | 28 600 | *26 400 | 20 450 | *21 650 | 15 750 | *17 700 | 12 750 | | | | | *14 500 | 11 500 | 11.39 |
| –6.0 m | kg | *35 550 | *35 550 | *35 950 | *35 950 | *28 700 | *28 700 | *23 250 | 20 700 | *18 750 | 16 000 | | | | | | | *14 900 | 13 500 | 10.26 |
| –7.5 m | kg | | | *27 300 | *27 300 | *22 250 | *22 250 | *17 700 | *17 700 | | | | | | | | | *13 650 | *13 650 | 8.71 |

**Boom** – 8.4 m
**Stick** – R4.4 m
**Coupler** – N/A
**Shoes** – 650 mm double grouser
**Bucket** – None

| | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | 10.5 m | | 12.0 m | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | m |
| 10.5 m | kg | | | | | | | | | *15 350 | *15 350 | | | | | *11 350 | *11 350 | 9.79 |
| 9.0 m | kg | | | | | | | | | *17 350 | *17 350 | *13 350 | *13 350 | | | *10 900 | *10 900 | 10.82 |
| 7.5 m | kg | | | | | | | | | *18 050 | *18 050 | *16 900 | 15 000 | | | *10 700 | *10 700 | 11.57 |
| 6.0 m | kg | | | | | | | *21 900 | *21 900 | *19 250 | 18 800 | *17 500 | 14 650 | *11 750 | 11 650 | *10 750 | *10 750 | 12.09 |
| 4.5 m | kg | | | | | *30 450 | *30 450 | *24 300 | 23 750 | *20 650 | 18 050 | *18 250 | 14 200 | *15 150 | 11 400 | *11 050 | 10 800 | 12.40 |
| 3.0 m | kg | | | | | *34 200 | 31 100 | *26 500 | 22 500 | *22 000 | 17 250 | *19 050 | 13 750 | 16 600 | 11 150 | *11 500 | 10 400 | 12.52 |
| 1.5 m | kg | | | | | *36 300 | 29 600 | *28 100 | 21 500 | *23 050 | 16 600 | *19 650 | 13 300 | 16 300 | 10 900 | *12 200 | 10 300 | 12.46 |
| Ground Line | kg | | | | | *36 650 | 28 800 | *28 750 | 20 850 | *23 500 | 16 150 | 19 600 | 13 000 | 16 150 | 10 750 | *13 300 | 10 500 | 12.21 |
| –1.5 m | kg | | | *24 000 | *24 000 | *35 650 | 28 500 | *28 400 | 20 500 | *23 300 | 15 850 | 19 400 | 12 800 | | | *14 850 | 11 000 | 11.76 |
| –3.0 m | kg | *23 450 | *23 450 | *33 350 | *33 350 | *33 350 | 28 550 | *27 000 | 20 450 | *22 200 | 15 800 | *18 150 | 12 800 | | | *16 500 | 11 950 | 11.09 |
| –4.5 m | kg | *33 050 | *33 050 | *36 400 | *36 400 | *29 700 | 28 900 | *24 300 | 20 650 | *19 700 | 15 950 | | | | | *16 150 | 13 650 | 10.15 |
| –6.0 m | kg | | | *28 900 | *28 900 | *24 100 | *24 100 | *19 550 | *19 550 | | | | | | | *15 050 | *15 050 | 8.85 |

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

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

# 390D/390D L Hydraulic Excavator Specifications

## 390D L General Purpose Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

**Boom** – 8.4 m
**Stick** – GP2.92 m

**Coupler** – N/A
**Shoes** – 750 mm double grouser

**Bucket** – None

| | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | 10.5 m | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | m |
| 10.5 m | kg | | | | | | | *21 400 | *21 400 | | | | | *17 650 | *17 650 | 8.15 |
| 9.0 m | kg | | | | | | | *21 450 | *21 450 | *20 050 | 19 000 | | | *16 450 | *16 450 | 9.38 |
| 7.5 m | kg | | | | | | | *22 700 | *22 700 | *20 300 | 18 750 | | | *15 900 | 15 000 | 10.23 |
| 6.0 m | kg | | | | | *30 550 | *30 550 | *24 600 | 24 050 | *21 200 | 18 200 | *19 150 | 14 200 | *15 800 | 13 500 | 10.81 |
| 4.5 m | kg | | | | | | | *26 650 | 22 900 | *22 300 | 17 550 | *19 550 | 13 900 | *16 050 | 12 600 | 11.16 |
| 3.0 m | kg | | | | | | | *28 250 | 21 900 | *23 200 | 16 950 | *19 950 | 13 550 | *16 650 | 12 150 | 11.29 |
| 1.5 m | kg | | | | | | | *28 950 | 21 200 | *23 700 | 16 450 | 19 950 | 13 250 | *17 650 | 12 050 | 11.22 |
| Ground Line | kg | | | | | *30 450 | 29 050 | *28 550 | 20 900 | *23 500 | 16 200 | *19 550 | 13 100 | *18 300 | 12 400 | 10.95 |
| –1.5 m | kg | | | | | *32 700 | 29 150 | *27 150 | 20 800 | *22 350 | 16 100 | | | *18 000 | 13 250 | 10.44 |
| –3.0 m | kg | | | *32 750 | *32 750 | *29 200 | *29 200 | *24 450 | 21 000 | *19 850 | 16 300 | | | *17 300 | 14 900 | 9.68 |
| –4.5 m | kg | | | *26 750 | *26 750 | *23 950 | *23 950 | *19 850 | *19 850 | | | | | *15 750 | *15 750 | 8.58 |

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

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

## 390D L Mass Boom Lift Capacities

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

**Boom** – 7.25 m
**Stick** – M3.4 m
**Coupler** – N/A
**Shoes** – 650 mm double grouser
**Bucket** – None

| | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | m |
| 10.5 m | kg | | | | | | | | | | | *17 400 | *17 400 | 6.96 |
| 9.0 m | kg | | | | | | | *21 650 | *21 650 | | | *15 900 | *15 900 | 8.36 |
| 7.5 m | kg | | | | | | | *23 500 | *23 500 | *18 950 | 18 850 | *15 350 | *15 350 | 9.32 |
| 6.0 m | kg | | | | | *29 350 | *29 350 | *24 900 | 24 850 | *22 200 | 18 500 | *15 250 | *15 250 | 9.95 |
| 4.5 m | kg | | | *45 600 | *45 600 | *33 050 | *33 050 | *26 800 | 23 850 | *23 000 | 17 950 | *15 600 | 14 400 | 10.33 |
| 3.0 m | kg | | | | | *36 200 | 31 800 | *28 500 | 22 800 | *23 850 | 17 400 | *16 350 | 13 800 | 10.47 |
| 1.5 m | kg | | | | | *37 700 | 30 500 | *29 500 | 22 000 | *24 250 | 16 900 | *17 600 | 13 700 | 10.40 |
| Ground Line | kg | | | *27 950 | *27 950 | *37 150 | 29 800 | *29 300 | 21 450 | *23 800 | 16 600 | *19 550 | 14 150 | 10.10 |
| –1.5 m | kg | *23 550 | *23 550 | *41 700 | *41 700 | *34 700 | 29 650 | *27 650 | 21 300 | *22 000 | 16 500 | *19 800 | 15 250 | 9.55 |
| –3.0 m | kg | *38 700 | *38 700 | *37 000 | *37 000 | *30 150 | 29 850 | *24 000 | 21 450 | | | *18 800 | 17 500 | 8.70 |
| –4.5 m | kg | | | *27 250 | *27 250 | *22 550 | *22 550 | | | | | *16 350 | *16 350 | 7.46 |

**Boom** – 7.25 m
**Stick** – M2.92 m
**Coupler** – N/A
**Shoes** – 750 mm double grouser
**Bucket** – None

| | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | m |
| 10.5 m | kg | | | | | | | | | | | *20 950 | *20 950 | 6.27 |
| 9.0 m | kg | | | | | | | *22 600 | *22 600 | | | *18 950 | *18 950 | 7.81 |
| 7.5 m | kg | | | | | | | *24 400 | *24 400 | | | *18 200 | *18 200 | 8.82 |
| 6.0 m | kg | | | *39 800 | *39 800 | *30 550 | *30 550 | *25 700 | 24 650 | *22 750 | 18 350 | *18 100 | 16 700 | 9.49 |
| 4.5 m | kg | | | | | *34 100 | 33 250 | *27 400 | 23 650 | *23 400 | 17 850 | *18 550 | 15 350 | 9.89 |
| 3.0 m | kg | | | | | *36 800 | 31 450 | *28 850 | 22 650 | *24 000 | 17 300 | *19 500 | 14 700 | 10.04 |
| 1.5 m | kg | | | | | *37 550 | 30 350 | *29 450 | 21 900 | *24 150 | 16 900 | *21 150 | 14 600 | 9.96 |
| Ground Line | kg | | | *25 950 | *25 950 | *36 300 | 29 850 | *28 850 | 21 500 | *23 300 | 16 650 | *20 950 | 15 150 | 9.64 |
| –1.5 m | kg | | | *40 350 | *40 350 | *33 250 | 29 850 | *26 650 | 21 400 | *20 650 | 16 700 | *20 300 | 16 550 | 9.07 |
| –3.0 m | kg | | | *33 300 | *33 300 | *27 950 | *27 950 | *22 050 | 21 700 | | | *18 850 | *18 850 | 8.17 |
| –4.5 m | kg | | | | | *18 900 | *18 900 | | | | | *15 600 | *15 600 | 6.77 |

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

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

# 390D/390D L Hydraulic Excavator Specifications

## 390D L Mass Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

**Boom** – 7.25 m
**Stick** – M2.92 m

**Coupler** – N/A
**Shoes** – 650 mm double grouser

**Bucket** – None

| | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | m |
| 10.5 m | kg | | | | | | | | | | | *20 950 | *20 950 | 6.27 |
| 9.0 m | kg | | | | | | | *22 600 | *22 600 | | | *18 950 | *18 950 | 7.81 |
| 7.5 m | kg | | | | | | | *24 400 | *24 400 | | | *18 200 | *18 200 | 8.82 |
| 6.0 m | kg | | | *39 800 | *39 800 | *30 550 | *30 550 | *25 700 | 24 450 | *22 750 | 18 150 | *18 100 | 16 550 | 9.49 |
| 4.5 m | kg | | | | | *34 100 | 32 950 | *27 400 | 23 400 | *23 400 | 17 650 | *18 550 | 15 200 | 9.89 |
| 3.0 m | kg | | | | | *36 800 | 31 150 | *28 850 | 22 450 | *24 000 | 17 150 | *19 500 | 14 500 | 10.04 |
| 1.5 m | kg | | | | | *37 550 | 30 050 | *29 450 | 21 700 | *24 150 | 16 700 | *21 150 | 14 450 | 9.96 |
| Ground Line | kg | | | *25 950 | *25 950 | *36 300 | 29 550 | *28 850 | 21 300 | *23 300 | 16 450 | *20 950 | 15 000 | 9.64 |
| –1.5 m | kg | | | *40 350 | *40 350 | *33 250 | 29 550 | *26 650 | 21 200 | *20 650 | 16 500 | *20 300 | 16 350 | 9.07 |
| –3.0 m | kg | | | *33 300 | *33 300 | *27 950 | *27 950 | *22 050 | 21 500 | | | *18 850 | *18 850 | 8.17 |
| –4.5 m | kg | | | | | *18 900 | *18 900 | | | | | *15 600 | *15 600 | 6.77 |

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

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

## 390D L Bucket Specifications and Compatibility

| | Linkage | Width | Capacity | Weight | Fill | Reach Boom | | General Purpose Boom | | | ME Boom | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | mm | $m^3$ | kg | % | R4.4HB2 | R5.5HB2 | R4.4HB2 | R5.5HB2 | G2.9JC | M2.9JC | M3.4JC |
| **Without Quick Coupler** | | | | | | | | | | | | |
| General Duty (GD) | HB2 | 1350 | 3.0 | 3406 | 100% | ○ | ⊗ | ● | ◉ | – | – | – |
| | HB2 | 1650 | 3.9 | 3794 | 100% | ⊗ | ⊗ | ◉ | ○ | – | – | – |
| | HB2 | 1900 | 4.6 | 4155 | 100% | ⊗ | ⊗ | ○ | ⊗ | – | – | – |
| | HB2 | 1100 | 2.2 | 2856 | 100% | ● | ◉ | ● | ● | – | – | – |
| | HB2 | 1350 | 2.9 | 3187 | 100% | ○ | ⊗ | ● | ● | – | – | – |
| | HB2 | 1650 | 3.7 | 3650 | 100% | ⊗ | ⊗ | ● | ○ | – | – | – |
| | HB2 | 1900 | 4.3 | 3923 | 100% | ⊗ | ⊗ | ○ | ⊗ | – | – | – |
| | HB2 | 2000 | 4.6 | 4032 | 100% | ⊗ | ⊗ | ○ | ⊗ | – | – | – |
| | JC | 2300 | 5.7 | 5822 | 100% | – | – | – | – | ⊗ | ◉ | ◉ |
| | JC | 2420 | 6.0 | 6004 | 100% | – | – | – | – | ⊗ | ◉ | ○ |
| | JC | 2575 | 6.5 | 6238 | 100% | – | – | – | – | ⊗ | ○ | ◇ |
| General Duty XL (GDXL) | HB2 | 2000 | 5.3 | 4400 | 100% | ⊗ | ⊗ | ⊗ | ⊗ | – | – | – |
| | HB2 | 2250 | 6.0 | 4796 | 100% | ⊗ | ⊗ | ⊗ | ⊗ | – | – | – |
| Heavy Duty (HD) | JC | 1750 | 4.1 | 4799 | 100% | – | – | – | – | ● | ● | ● |
| | JC | 2090 | 5.1 | 5441 | 100% | – | – | – | – | ⊗ | ● | ◉ |
| | JC | 2300 | 5.7 | 5892 | 100% | – | – | – | – | ⊗ | ◉ | ◉ |
| Severe Duty (SD) | HB2 | 1100 | 2.3 | 3282 | 90% | ● | ○ | ● | ● | – | – | – |
| | HB2 | 1350 | 3.0 | 3736 | 90% | ○ | ⊗ | ● | ● | – | – | – |
| | HB2 | 1650 | 3.9 | 4163 | 90% | ⊗ | ⊗ | ◉ | ○ | – | – | – |
| | HB2 | 1900 | 4.6 | 4553 | 90% | ⊗ | ⊗ | ○ | ⊗ | – | – | – |
| | JC | 1960 | 4.6 | 6229 | 90% | – | – | – | – | ○ | ● | ● |
| | JC | 2240 | 5.4 | 6809 | 90% | – | – | – | – | ⊗ | ● | ◉ |
| | JC | 2350 | 5.7 | 7015 | 90% | – | – | – | – | ⊗ | ◉ | ○ |
| | JC | 2440 | 6.0 | 7342 | 90% | – | – | – | – | ⊗ | ◉ | ○ |
| Extreme Duty (XD) | JC | 2090 | 5.0 | 6557 | 90% | – | – | – | – | ○ | ● | ◉ |
| | JC | 2240 | 5.4 | 7733 | 90% | – | – | – | – | ⊗ | ◉ | ○ |
| | JC | 2350 | 5.7 | 7968 | 90% | – | – | – | – | ⊗ | ◉ | ○ |
| Maximum dynamic load pin-on (payload + bucket) | | | | | kg | 7200 | 6040 | 10 030 | 8500 | 11 960 | 15 320 | 14 100 |
| **With Quick Coupler (CW-70)** | | | | | | | | | | | | |
| Severe Duty (SD) | JC | 2240 | 5.4 | 6559 | 90% | – | – | – | – | ⊗ | ◉ | ○ |
| | JC | 2350 | 5.7 | 6765 | 90% | – | – | – | – | ⊗ | ◉ | ⊗ |
| Maximum dynamic load with CW coupler (payload + bucket) | | | | | kg | 5780 | 4620 | 8610 | 7080 | 10 540 | 13 900 | 12 680 |

The above figures are based on maximum recommended dynamic working weights with front linkage fully extended at ground line with bucket curled. They do not exceed a stability ratio of 1.25.

Capacity based on ISO 7451.

Bucket weights include HD Long tips.

**Maximum Material Density:**

- ● 1800 kg/$m^3$ or greater
- ◉ 1500 kg/$m^3$ or less
- ○ 1200 kg/$m^3$ or less
- ◇ 1200 kg/$m^3$ or less, recommended for GD application only
- ⊗ Not Recommended

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

# 390D/390D L Hydraulic Excavator Specifications

## 390D Bucket Specifications and Compatibility

| | Linkage | Width | Capacity | Weight | Fill | Reach Boom | | General Purpose Boom | | | ME Boom | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | mm | $m^3$ | kg | % | R4.4HB2 | R5.5HB2 | R4.4HB2 | R5.5HB2 | G2.9JC | M2.9JC | M3.4JC |
| **Without Quick Coupler** | | | | | | | | | | | | |
| General Duty (GD) | HB2 | 1350 | 3.0 | 3406 | 100% | ○ | ⊗ | ● | ◉ | – | – | – |
| | HB2 | 1650 | 3.9 | 3794 | 100% | ⊗ | ⊗ | ◉ | ○ | – | – | – |
| | HB2 | 1900 | 4.6 | 4155 | 100% | ⊗ | ⊗ | ○ | ⊗ | – | – | – |
| | HB2 | 1100 | 2.2 | 2856 | 100% | ● | ◉ | ● | ● | – | – | – |
| | HB2 | 1350 | 2.9 | 3187 | 100% | ○ | ⊗ | ● | ● | – | – | – |
| | HB2 | 1650 | 3.7 | 3650 | 100% | ⊗ | ⊗ | ● | ○ | – | – | – |
| | HB2 | 1900 | 4.3 | 3923 | 100% | ⊗ | ⊗ | ○ | ⊗ | – | – | – |
| | HB2 | 2000 | 4.6 | 4032 | 100% | ⊗ | ⊗ | ○ | ⊗ | – | – | – |
| | JC | 2300 | 5.7 | 5822 | 100% | – | – | – | – | ⊗ | ◉ | ◉ |
| | JC | 2420 | 6.0 | 6004 | 100% | – | – | – | – | ⊗ | ◉ | ○ |
| | JC | 2575 | 6.5 | 6238 | 100% | – | – | – | – | ⊗ | ○ | ○ |
| General Duty XL (GDXL) | HB2 | 2000 | 5.3 | 4400 | 100% | ⊗ | ⊗ | ⊗ | ⊗ | – | – | – |
| | HB2 | 2250 | 6.0 | 4796 | 100% | ⊗ | ⊗ | ⊗ | ⊗ | – | – | – |
| Heavy Duty (HD) | JC | 1750 | 4.1 | 4799 | 100% | – | – | – | – | ● | ● | ● |
| | JC | 2090 | 5.1 | 5441 | 100% | – | – | – | – | ○ | ● | ◉ |
| | JC | 2300 | 5.7 | 5892 | 100% | – | – | – | – | ⊗ | ◉ | ◉ |
| Severe Duty (SD) | HB2 | 1100 | 2.3 | 3282 | 90% | ● | ○ | ● | ● | – | – | – |
| | HB2 | 1350 | 3.0 | 3736 | 90% | ○ | ⊗ | ● | ● | – | – | – |
| | HB2 | 1650 | 3.9 | 4163 | 90% | ⊗ | ⊗ | ◉ | ○ | – | – | – |
| | HB2 | 1900 | 4.6 | 4553 | 90% | ⊗ | ⊗ | ○ | ⊗ | – | – | – |
| | JC | 1960 | 4.6 | 6229 | 90% | – | – | – | – | ○ | ● | ● |
| | JC | 2240 | 5.4 | 6809 | 90% | – | – | – | – | ⊗ | ● | ◉ |
| | JC | 2350 | 5.7 | 7015 | 90% | – | – | – | – | ⊗ | ◉ | ○ |
| | JC | 2440 | 6.0 | 7342 | 90% | – | – | – | – | ⊗ | ◉ | ○ |
| Extreme Duty (XD) | JC | 2090 | 5.0 | 6557 | 90% | – | – | – | – | ○ | ● | ◉ |
| | JC | 2240 | 5.4 | 7733 | 90% | – | – | – | – | ⊗ | ◉ | ○ |
| | JC | 2350 | 5.7 | 7968 | 90% | – | – | – | – | ⊗ | ◉ | ○ |
| Maximum dynamic load pin-on (payload + bucket) | | | | | kg | 7200 | 6040 | 10 030 | 8500 | 11 960 | 15 320 | 14 100 |
| **With Quick Coupler (CW-70)** | | | | | | | | | | | | |
| Severe Duty (SD) | JC | 2240 | 5.4 | 6559 | 90% | – | – | – | – | ⊗ | ◉ | ○ |
| | JC | 2350 | 5.7 | 6765 | 90% | – | – | – | – | ⊗ | ◉ | ⊗ |
| Maximum dynamic load with CW coupler (payload + bucket) | | | | | kg | 5780 | 4620 | 8610 | 7080 | 10 540 | 13 900 | 12 680 |

The above figures are based on maximum recommended dynamic working weights with front linkage fully extended at ground line with bucket curled. They do not exceed a stability ratio of 1.25.

Capacity based on ISO 7451.

Bucket weights include HD Long tips.

**Maximum Material Density:**

- ● 1800 kg/$m^3$ or greater
- ◉ 1500 kg/$m^3$ or less
- ○ 1200 kg/$m^3$ or less
- ⊗ Not Recommended

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

## Work Tool Offering Guide*

| Boom Type | Reach Boom | | General Purpose Boom | | | Mass Boom | |
|---|---|---|---|---|---|---|---|
| **Stick Size** | **R5.5 m** | **R4.4 m** | **R5.5 m** | **R4.4 m** | **GP2.92 m** | **M3.4 m** | **M2.92 m** |
| Multi-Processor | | MP40** | MP40** | MP40 | | | |
| Mobile Scrap and Demolition Shear | | | | S365C** | S385C | S385C | S385C |

*Offerings not available in all areas. Matches are dependent on excavator configurations. Consult your Cat dealer to determine what is offered in your area, and, for proper work tool match.

**Pin-on only.

# 390D/390D L Standard Equipment

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

## ELECTRICAL

- Alternator – 75 amp
- Lights: Cab interior
- Signal/warning horn
- Power supply at battery compartment – 24V

## ENGINE/POWER TRAIN

- Automatic engine speed control
- Automatic swing parking brake
- Automatic travel parking brakes
- Cat® C18 engine with ACERT™ Technology
  - Altitude capability to 2300 m without derating
- High ambient cooling, 52° C capability
- Side-by-side cooling system with separately mounted AC condenser and variable speed fan
- Two speed travel
- Water separator with level indicator for fuel line
- Electric fuel priming pump

## GUARDS

- Heavy-duty travel motor guards on upper frame
- Heavy-duty swivel guard on undercarriage
- Heavy-duty travel motor guards on undercarriage

## OPERATOR STATION

- Air conditioner, heater and defroster with automatic climate control
- Ashtray and 24V lighter
- Beverage/cup holder
- Coat hook
- Console-mounted, electronic-type joysticks with adjustable gain and response
- Floor mat
- Instrument panel and gauges with full color graphical display
- Literature compartment
- Neutral lever (lock-out) for all controls
- Positive filtered ventilation
- Pressurized cab
- Retractable seat belt, 75 mm wide
- Stationary skylight (polycarbonate)
- Sunshade for windshield and skylight
- Travel control pedals with removable hand levers
- Windshield wipers and washers (upper and lower)

## UNDERCARRIAGE

- Grease lubricated and positive pin retention track
- Hydraulic track adjusters
- Variable gauge
- Steps, four

## OTHER STANDARD EQUIPMENT

- Auxiliary hydraulic valve for hydro-mechanical tools
- Cat® one key security system with locks for doors, cab and fuel cap
- Catwalks, left and right sides
- Crossroller-type swing bearing
- Drive for auxiliary pump
- Mirrors, left and right
- S·O·S℠ quick sampling valves for engine oil and hydraulic oil
- Steel firewall between engine and hydraulic pumps
- Wiring provisions for Cat® Product Link, AutoLube System and lighted beacon

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

FRONT LINKAGE
- Bucket linkages
- VB family for VB sticks (available with or without lifting eye)
- WB family for WB sticks (available with or without lifting eye)
- Buckets – see charts
- Booms (with two working lights)
  - Mass Excavation – 7250 mm
  - Reach – 10 000 mm
  - GP – 8400 mm
- Sticks
  - For Mass Boom
    - M2.92JC
    - M3.4JC
  - For Reach Boom
    - R5.5HB2
    - R4.4HB2
  - For GP Boom
    - R5.5HB2
    - R4.4HB2
    - GP2.92JC
- Tips, sidecutters and edge protectors

TRACK
- Double grouser, heavy duty
  - 650 mm
  - 750 mm
  - 900 mm

GUARDS
- FOGS (Falling Object Guard System) including overhead and windshield guards
- Track guiding guards
  - Full length
  - Center section
  - Three pieces
- Wire mesh screen for windshield
- Auxiliary controls and lines
  - Auxiliary boom lines (high pressure for reach and mass booms)
  - Auxiliary stick lines (high pressure for reach and mass booms)
  - Basic control arrangements:
    - Single action – one way, high-pressure circuit for hammer application
    - Combined function – one way, high-pressure circuit for hammer application function for one-way or two-way high pressure

MISCELLANEOUS OPTIONS
- Boom lowering control device
- Cab front rain protector
- Converter, 10 amp 12V (one)
- Electric refueling pump
- Fine filtration filter
- Jump start terminals
- Reversible cooling fan including protective screen
- Starting aid with ether for cold weather
- Stick lowering control device
- Travel alarm with cut-off switch

OPERATOR COMPARTMENT
- Joysticks
  - Four button joystick for standard machine or single action auxiliary control
  - Thumb wheel modulation joystick for use with combined auxiliary control
- Lunch box storage with lid
- Machine Security System with programmable keys
- Radio
  - AM/FM radio-mounted in right console with antenna and two speakers
  - Radio-ready mounting at rear location including 24V to 12V converter, speakers, antenna
- Seat
  - Adjustable, high back with mechanical suspension
  - Adjustable, high back with air suspension
  - Adjustable, high back heated with air suspension
- Straight travel pedal
- Windshield
  - One-piece, standard duty
  - 70-30 split, sliding

# 390D/390D L Hydraulic Excavator

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



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



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