390F L

Hydraulic Excavator

2017

Engine		
Engine Model	Cat® C18 ACERT™	
Power – ISO 14396	405 kW	543 hp
Power – ISO 9249	391 kW	524 hp

Drive		
Maximum Travel Speed	4.5 km/h	2.8 mph
Maximum Drawbar Pull	590 kN	132,637 lbf
Weights		
Minimum	70 970 kg	156,461 lb
Maximum	86 275 kg	190,204 lb

The 390F L is built to keep your production numbers up and your owning and operating costs down.

Not only does the machine's C18 ACERT engine meet U.S. EPA Tier 4 Final emission standards, but it does so while giving you all the power, fuel efficiency, and reliability you need to succeed.

Where the real power comes in is through advanced hydraulics and the new Adaptive Control System (ACS) valve. The ACS valve and other integrated components allow you to move tons of material all day long with a great deal of speed, precision, and efficiency. In fact, the hydraulic system and engine team worked together to lower fuel consumption up to 29% – with zero impact on your productivity – compared to 390D L.

When you add in a quiet operator environment that keeps you comfortable and productive, service points that make your routine maintenance quick and easy, and multiple Cat work tools that help you do a number of jobs very well, you simply won't find a better machine in this size class.

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390F L

Reliable and Productive

Power to move your material with speed and precision

Hydraulic Horsepower, a Cat Advantage

Hydraulic horsepower is the actual machine power available to do work through implements and work tools. It's much more than just the engine power under the hood – it's a core strength that differentiates Cat machines from other brands. In fact, pump and other system components work to put more power to the ground, in a highly controlled, user-friendly way. This means you will move more material in less time and keep more money in your pocket at the end of the day.

Control Like No Other

The new Cat Adaptive Control System (ACS) valve optimizes performance by intelligently managing restrictions and flows to control machine motion, which means your operators will have the power and precision they need and expect. It opens slowly when your range of joystick lever movement is small and opens rapidly when movement is high. It smartly puts flow exactly where you need it when you need it, which leads to smoother operation, greater efficiency, and lower fuel consumption.

Auxiliary Hydraulics for Added Versatility

Auxiliary hydraulics give you greater tool versatility so you can take on more work with just one machine, and there are several options from which you can choose. A quick coupler circuit, for example, allows you to switch from one tool to another in a matter of minutes.

Fuel Efficient

Engineered to lower your operating costs

Proven Technology

The right technologies fine-tuned for the right applications result in:

- **Improved Fuel Efficiency** – Up to 29% improvement over Tier 4 Interim products.
- **High Performance** across a variety of applications.
- **Enhanced Reliability** through commonality and simplicity of design.
- **Maximized Uptime and Reduced Cost** with world-class support from the Cat dealer network.
- **Minimized Impact of Emission Systems** – designed to be transparent to the operator without requiring interaction.
- **Durable designs** with long life to overhaul.
- **Delivering better fuel economy** with minimized maintenance costs while providing the same great power and response.

The Cat C18 ACERT engine meets Tier 4 Final emission standards and it does so without interrupting your job process. Simply turn the engine on and go to work. It will look for opportunities in your work cycle to regenerate itself, and it will give you plenty of power for the task at hand – all to help keep your owning and operating costs to an absolute minimum.

A Smart Design for Any Temperature

The 390F L features a side-by-side cooling system that allows you to put the machine to work in extremely hot and cold conditions. The system is completely separated from the engine compartment to reduce noise and heat. Plus it features easy-to-clean cores and a new variable-speed fan that reverses to blow out unwanted debris that may accumulate during your work day.

Biodiesel Not A Problem

The C18 ACERT engine can run on biodiesel fuel up to B20 blended with ultra-low-sulfur diesel (ULSD). Just fill it up and go.

Easy to Operate

Comfort and convenience to keep you productive all day long

Safe and Quiet Cab

The cab contributes to your comfort thanks to special viscous mounts and special roof lining and sealing, that limit vibration and unnecessary sound.

Operators will enjoy the quietness and comfort of the all-new cab that's insulated to reduce sound inside by 4 dB over the previous model.

Excellent Ergonomics

Wide seats with air suspension and heat/cooling options, include a reclining back, upper and lower slide adjustments, and height and tilt angle adjustments to meet your needs for maximum comfort.

The fully automatic climate control system keeps operators comfortable and productive all day long in either hot or cold weather.

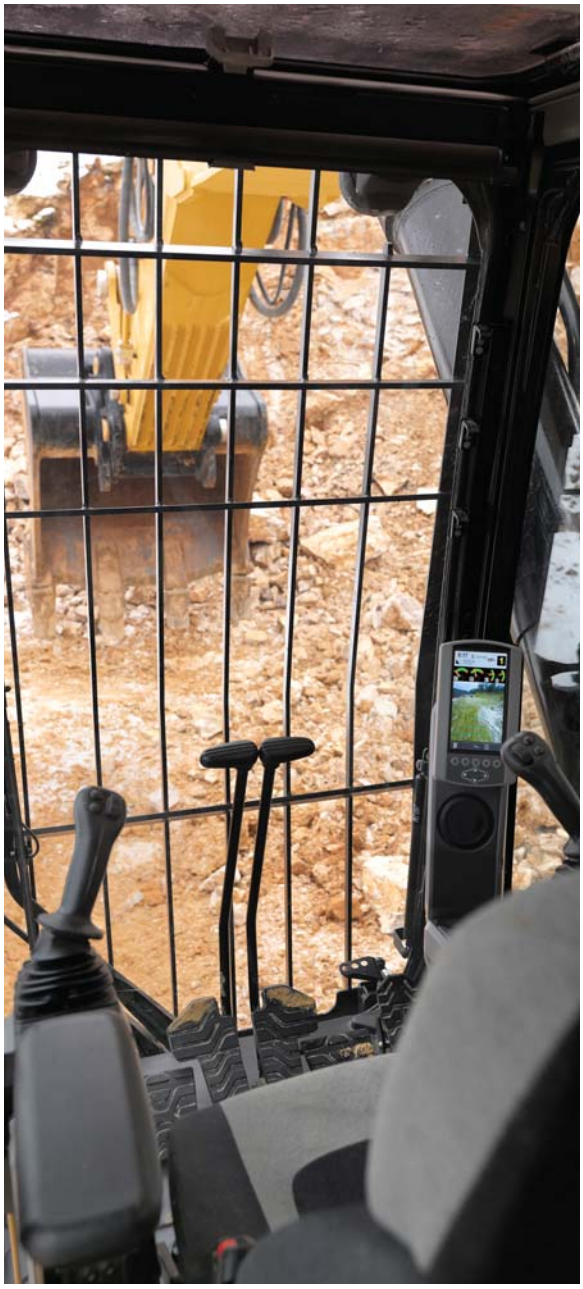
Storage spaces are located in the front, rear, and side consoles of the cab. A drink holder accommodates a large mug, and a shelf behind the seat stores large lunch or toolboxes.

Power supply sockets are available for charging your electronic devices like an MP3 player, a cell phone, or even a tablet.

Controls Just for You

The right and left joystick consoles can be adjusted to improve your comfort and productivity during the course of a day.

The right joystick features a button that will reduce engine speed when you are not working to help save fuel. Touch it once and speed reduces; touch it again and speed increases for normal operation.



Easy to Navigate Monitor

The new LCD monitor is easy to see and navigate. Not only can it memorize up to 10 different work tools, it's also programmable in up to 44 languages to meet today's diverse workforce. The monitor clearly displays critical information you need to operate efficiently and effectively. Plus it projects the image from the standard rearview camera to help you see what's going on around you so you can stay safely focused on the job at hand.

Durable Structures

Made to work in your tough, heavy-duty applications

Stable Undercarriage

Long variable gauge undercarriage contributes significantly to its outstanding stability and durability, and it adjusts to reduce shipping width.

Track shoes, links, rollers, idlers, and final drives are all built with high-tensile strength steel for long-term durability.

Cat GLT4 track link protects moving parts by keeping water, debris, and dust out and grease sealed in, which delivers longer wear life and reduced noise when traveling.

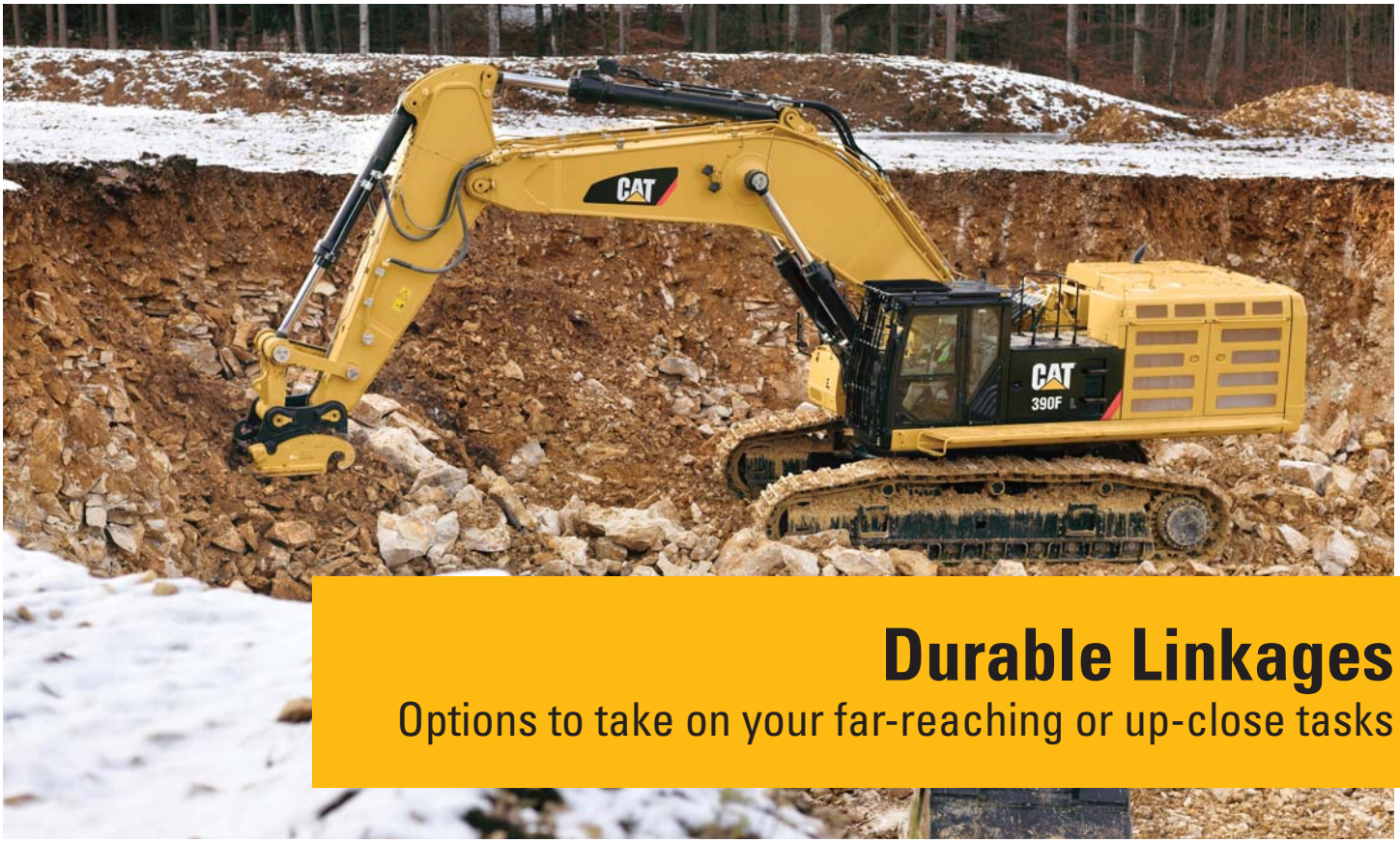
Cat Positive Pin Retention 2 (PPR2) prevents looseness of the track pin in the track link, reduces stress concentrations, and eliminates pin walking for increased service life.

Robust Frames

The 390F L is a robust, well-built machine designed to give you a very long service life. The upper frame has mountings made specifically to support the heavy-duty cab. It's also reinforced around areas that take on a lot of stress like the boom foot, skirt, and counterweight.

Great Weight

An 11 mt (24,250 lb) counterweight – with or without removal device – is available to balance your work needs. Built with thick steel plates and reinforced fabrications to make it less susceptible to damage, the weight has a curved surface that matches the machine's sleek, smooth appearance along with an integrated housing to help protect the standard rearview camera.



Durable Linkages

Options to take on your far-reaching or up-close tasks

Booms and Sticks for Any Job

The 390F L is offered with a range of booms and sticks. Each is built with internal baffle plates and is stress relieved for added durability, and each undergoes ultrasound inspection to ensure quality and reliability. Large box-section structures with thick, multi-plate fabrications, castings, and forgings are used in high-stress areas such as the boom nose, boom foot, boom cylinder, and stick foot to improve durability. Also, the boom nose pin retention method is a captured flag design for enhanced durability.

The Reach boom and sticks offer you excellent all-around versatility for general excavation work like multipurpose digging and loading.

The Mass boom and sticks offer you enhanced performance in heavy-duty material like rock. They provide higher digging forces due to special boom and stick geometry, and bucket linkage and cylinders are built for greater durability.

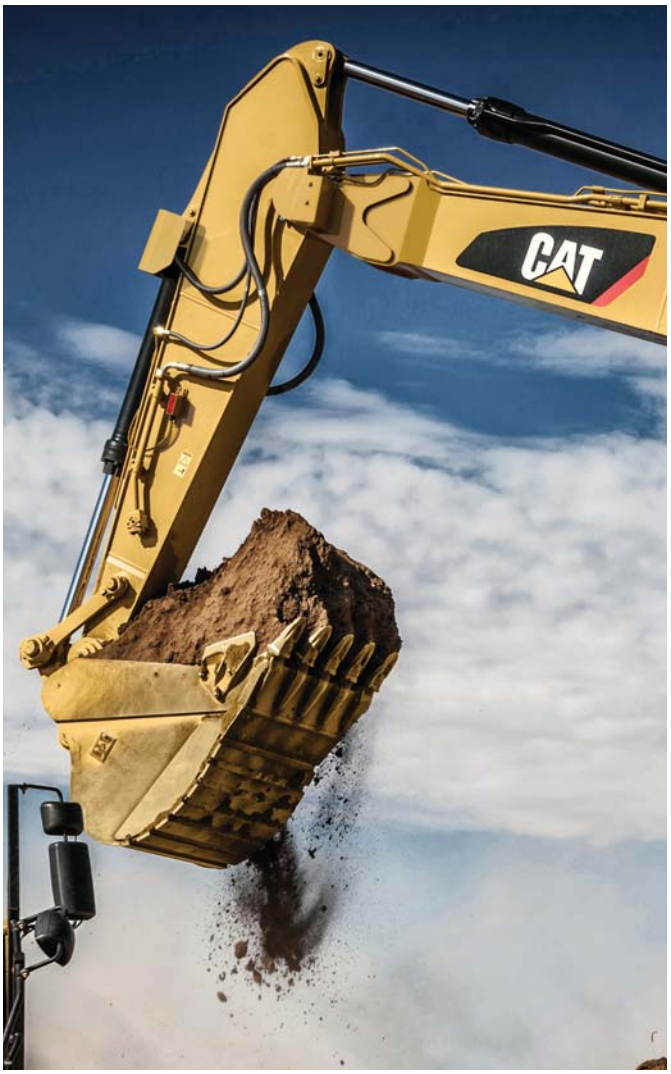
Pins

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.

Talk to your Cat dealer to pick the best front linkage for your applications.

Cat Connect Technologies

Monitor, manage, and enhance job site operations



Cat Connect makes smart use of technology and services to improve your job site efficiency. Using the data from technology-equipped machines, you'll get more information and insight into your equipment and operations than ever before.

Cat Connect technologies offer improvements in these key areas:

EQUIPMENT MANAGEMENT

Equipment Management – increase uptime and reduce operating costs.

PRODUCTIVITY

Productivity – monitor production and manage job site efficiency.

SAFETY

Safety – enhance job site awareness to keep your people and equipment safe.

PAYLOAD Technologies

Payload technologies accurately measure material being loaded or hauled. Payload data is shared with operators in real-time to improve productivity, reduce overloading, and record progress.

Cat Production Measurement

Cat Production Measurement brings payload weighing to the cab, enabling operators to weigh loads "on the go." Loads are weighed as the boom swings with no interruptions in the loading cycle, improving loading speed and efficiency. Operators can view load weights on the integrated display and know precisely how much material is in the bucket and when trucks are filled to target payload. Instant feedback gives operators the confidence to work more effectively, maximizing the potential of the entire fleet. Site managers can wirelessly access data via the VisionLink® web portal to measure production and monitor efficiency.

GRADE Technologies

Grade technologies combine digital design data and in-cab guidance to help you reach target grade quickly and accurately, with minimal staking and checking. That means you'll be more productive, complete jobs faster, in fewer passes, using less fuel, at a lower cost.

Cat Grade Control Depth and Slope

The integrated Cat Grade Control system delivers 2D bucket tip elevation guidance to the cab to help operators create precise planes and slopes. Real-time bucket tip elevation guidance on the standard cab monitor indicates how much to cut or fill. Fast response sensors deliver immediate feedback, while optional integrated joystick buttons help operators make quick adjustments to maintain grade. Built-in alerts can be set to warn the operator if the linkage or bucket approaches a predefined elevation or depth, such as when working in areas with low ceilings, or digging near water lines. Staking and checking is minimized, which reduces ground crews and enhances job site safety.

Works best in simple 2D applications, such as digging trenches and basements or grading steep embankments.

Cat AccuGrade™

The AccuGrade system uses a dedicated monitor with a digital design plan for 3D bucket tip positioning and elevation guidance. AccuGrade indicates precisely where to work and how much to cut or fill – eliminating staking and checking.

Plug and play capability on the machine simplifies upgrading. Choose from satellite (GNSS) or total station (UTS) control for large projects with complex designs.

LINK Technologies

LINK technologies, like Product Link™, are deeply integrated into your machine and wirelessly communicates key information, including location, hours, fuel usage, idle time and event codes.

Product Link/VisionLink

Easy access to Product Link data via the online VisionLink user interface can help you see how your machine or fleet is performing. You can use this information to make timely, fact based decisions that can boost job site efficiency and productivity, and lower costs.

Versatile

Do more jobs with one machine

Get the Most from One Machine

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.

Change Jobs Quickly

Cat quick coupler brings the ability to quickly change attachments and switch from job to job. The Cat coupler is the secure way to decrease downtime and increase job site flexibility and overall productivity.

Available tool control remembers pressures and flows for up to 10 tools. Simply toggle through the monitor, select the tool, and go to work for maximum efficiency.

Dig, Rip and Load

A wide range of buckets dig everything from basic top soil to extreme, harsh material like ore and high quartzite granite. Rip through rock as an alternative to blasting in quarries. High-capacity buckets load trucks in a minimum number of passes for maximum productivity.

Break, Demolish and Scrap

A hydraulic hammer ably equips your machine for breaking rock in quarries. It will also make taking down bridge pillars and heavily reinforced concrete on road demolition jobs no problem.

Multi-processor and pulverizer attachments make your machine ideal for demolition jobs and processing the resulting debris.

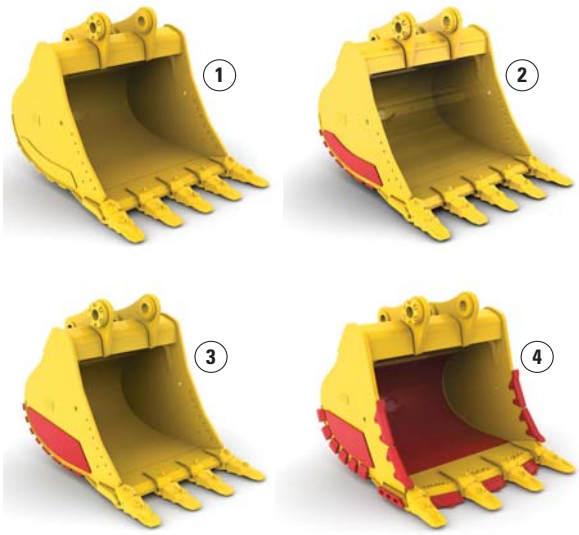
Shears with 360° rotation mount to the machine for processing scrap steel and metal.

Move and Handle Material

When your job requires steady material handling and loading of heavy construction debris, a contractor's grapple is a good solution.

Set Up Your Machine for Profitability

Your Cat dealer can install hydraulic kits to properly operate all Cat Work Tool attachments, maximizing the machine's uptime and your profit. All Cat Work Tool attachments are supported by the same Cat dealer network as your Cat machine.



1) General Duty (GD) 2) Heavy Duty (HD)
3) Severe Duty (SD) 4) Extreme Duty (XD)

Safe Work Environment

Features to help protect you day in and day out

Great Views

Ample glass gives you excellent visibility out front and to the side, and the standard rearview camera gives you a clear field of view behind the machine through the cab monitor. As an option, a second display can be added, providing a dedicated full-time rearview of the job site. Optional side-view camera can also be added.

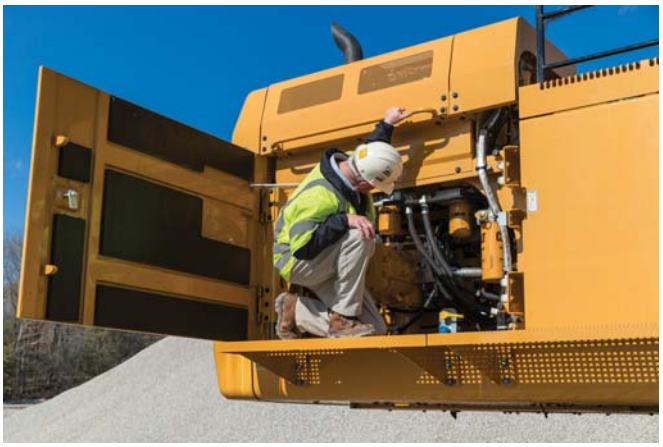
Halogen lights provide plenty of illumination. Cab and boom lights can be programmed to stay on for up to 90 seconds after the engine has been turned off to help you safely exit the machine. Optional High Intensity Discharge (HID) lights are available for enhanced night-time visibility.

Secure Contact Points

Multiple large steps as well as hand and guard rails will get you into the cab as well as a leg up to the catwalks and compartments. Extended hand and guard rails allow you to safely climb to the upper deck. Anti-skid plates on the catwalks, the surface of the upper structure, and the top of the storage box area reduce your slipping hazards in all types of weather conditions. They can be removed for cleaning.

Serviceable

Designed to make your maintenance quick and easy



Convenient Access Built In

You can reach routine maintenance items like greasing points and a concentrated remote greasing block on boom foot from ground level.

Compartments feature wide service doors designed to help prevent debris entry, and they also securely latch in place to help make your service work simpler.

Machine's slip-resistant 500 mm (19.7 in) wide catwalks stretch the length of the machine to provide safe access to major and grouped service points, such as fuel and oil filters, and fluid taps.

Quick and Convenient Fluids Service

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

You can ensure fast, easy, and secure changing of engine and hydraulic oil with the QuickEvac™ option.

The fuel tank's drain cock makes it easy and simple for you to remove water and sediment during routine maintenance. Plus an integrated fuel level indicator pops up to help you reduce the possibility of fuel tank overfilling. An optional fast fill port accessible from ground level can make refueling even easier and faster.

An electric lubricator system is an available time-saving attachment. The lubricator has a grease container, greasing pump, and a hose with nozzle to help you reach all the greasing points.

A Smart Cooling Design

The 390F L features a new side-by-side cooling system with easy-to-clean cores and a new variable-speed fan that reverses to blow out unwanted debris that may accumulate during your work day.

A Fresh Idea

Selecting ventilation inside the cab allows outside air to enter through a fresh air filter. The filter is conveniently located on the side of the cab to make it easy to reach and replace, and it is protected by a lockable door that can be opened with the engine key.

Sustainable

Generations ahead in every way

The 390F L is designed to compliment your business plan and minimize the consumption of natural resources, resulting in fewer emissions.

- The C18 ACERT engine meets Tier 4 Final emission standards.
- The 390F L consumes up to 30% less fuel than its predecessor 390D L.
- The machine has the flexibility to run on either ULSD fuel with 15 ppm of sulfur or less, or up to B20 biodiesel blended with ULSD.
- An overfill indicator rises when the tank is full to help the operator avoid spilling.
- Quick fill ports with connectors ensure fast, easy, and secure changing of hydraulic oil.
- Major components are rebuildable, eliminating waste and saving money by giving the machine and/or major components a second life – and even a third life.
- Link technologies enable you to collect and analyze equipment and job site data so you can maximize productivity and reduce costs.
- The 390F L is an efficient, productive machine that's designed to conserve our natural resources for generations ahead.

Complete Customer Care

Unmatched support makes the difference

Worldwide Parts Availability

Cat dealers utilize a worldwide parts network to maximize your machines' uptime. Plus they can help you save money with Cat remanufactured components.

Financial Options Just for You

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.

What's Best for You Today…and Tomorrow

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

Engine

Engine Model	Cat C18 ACERT	
Engine Power – ISO 14396	405 kW	534 hp
Net Power – SAE J1349	391 kW	524 hp
Bore	145 mm	5.7 in
Stroke	183 mm	7.2 in
Displacement	18.1 L	1,104.5 in^3

- No engine power derating required below 2300 m (7,500 ft) altitude.
- Rating at 1,700 rpm (Implement).

Track

Track Options – Double Grouser:	900 mm 750 mm 650 mm	35 in 30 in 26 in
Number of Shoes Each Side	51	
Number of Track Rollers Each Side	9	
Number of Carrier Rollers Each Side	3	

Swing

Swing Speed	6.2 rpm	
Swing Torque	260 kN·m	191,766 lbf-ft
Maximum Swing Torque	313 kN·m	230,856 lbf-ft

Drive

Gradeability	30°/70%	
Maximum Travel Speed	4.5 km/h	2.8 mph
Maximum Drawbar Pull	590 kN	132,637 lbf

Service Refill Capacities

Fuel Tank Capacity	1240 L	328 gal
Cooling System	74 L	20 gal
Engine Oil	60 L	16 gal
Swing Drive (each)	19 L	5.0 gal
Final Drive (each)	21 L	5.5 gal
Hydraulic System (including tank)	997 L	263 gal
Hydraulic Tank	813 L	215 gal
DEF Tank	48 L	13 gal

Hydraulic System

Maximum Flow (total)		
Main System – Implement	952 L/min	251 gal/min
Main System – Travel	1064 L/min	281 gal/min
Pilot System	67 L/min	17.7 gal/min
Swing System	No swing pump	
Maximum Flow (× 2 pumps)		
Main System – Implement	476 L/min	133 gal/min
Main System – Travel	532 L/min	141 gal/min
Maximum Pressure		
Equipment – Normal	35 000 kPa	5,076 psi
Travel	35 000 kPa	5,076 psi
Swing	26 000 kPa	3,770 psi
Pilot System	4.0-4.4 MPa	580-638 psi
Boom Cylinder		
Bore	210 mm	8.3 in
Stroke	1967 mm	77 in
Stick Cylinder		
Bore	220 mm	8.7 in
Stroke	2262 mm	89 in
HB2 – Family Bucket Cylinder		
Bore	200 mm	7.9 in
Stroke	1451 mm	57 in
JC – Family Bucket Cylinder		
Bore	220 mm	8.7 in
Stroke	1586 mm	62 in

Sound Performance

Exterior – ISO 6395*	109 dB(A)
Interior – SAE J1166/ISO 6396	74 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.
- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.

*as per European Union Directive 2000/14/EC as amended by 2005/88/EC

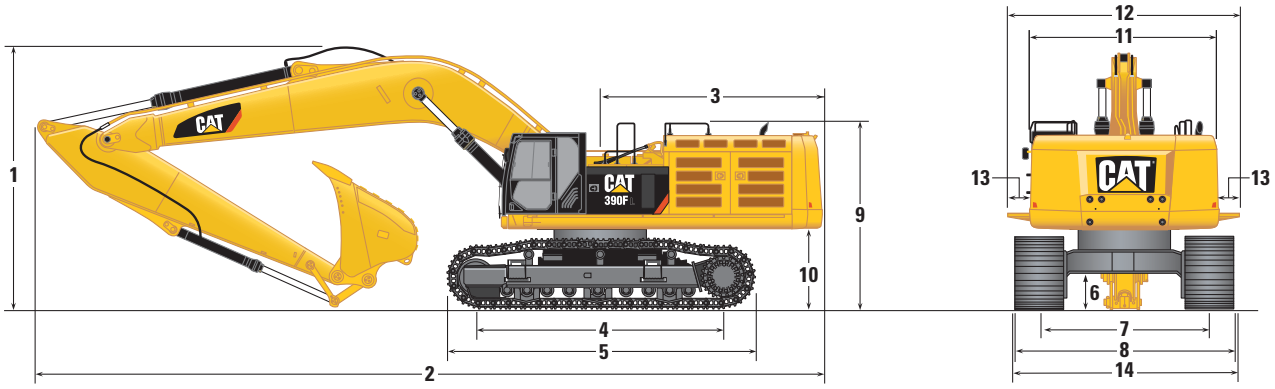
Standards

Brakes	ISO 10265:2008
Cab/FOGS	SAE J1356 MAR2013 ISO 10262:1998
DEF	ISO 22241

390F L Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate. Dimensions may vary depending on bucket selection.



Boom Options		Reach Boom 10.0 m (32'10")		Mass Boom 7.25 m (23'9")	
Stick Options		**R5.5HB2 (18'1")**	**R4.4HB2 (14'5")**	**M3.4JC (11'2")**	**M2.92JC (9'7")**
1 Height (with boom/stick installed)	mm (ft/in)	5490 (18'0")	5070 (16'8")	5310 (17'5")	5310 (17'5")
2 Length (with boom/stick installed)	mm (ft/in)	16 290 (53'5")	16 330 (53'7")	13 550 (44'6")	13 830 (45'4")
3 Tail Swing Radius	mm (ft/in)	4700 (15'5")	4700 (15'5")	4700 (15'5")	4700 (15'5")
4 Length to Center of Rollers	mm (ft/in)	5120 (16'10")	5120 (16'10")	5120 (16'10")	5120 (16'10")
5 Track Length	mm (ft/in)	6358 (20'10")	6358 (20'10")	6358 (20'10")	6358 (20'10")
6 Ground Clearance	mm (ft/in)	900 (2'11")	900 (2'11")	900 (2'11")	900 (2'11")
7 Track Gauge (retracted)	mm (ft/in)	2750 (9'0")	2750 (9'0")	2750 (9'0")	2750 (9'0")
Track Gauge (extended)	mm (ft/in)	3510 (11'6")	3510 (11'6")	3510 (11'6")	3510 (11'6")
8 Transport Width					
650 mm (26 in) Shoes	mm (ft/in)	4160 (13'8")	4160 (13'8")	4160 (13'8")	4160 (13'8")
750 mm (30 in) Shoes	mm (ft/in)	4260 (14'0")	4260 (14'0")	4260 (14'0")	4260 (14'0")
900 mm (35 in) Shoes	mm (ft/in)	4410 (14'6")	4410 (14'6")	4410 (14'6")	4410 (14'6")
9 Guardrail Height	mm (ft/in)	3830 (12'7")	3830 (12'7")	3830 (12'7")	3830 (12'7")
Cab Height	mm (ft/in)	3670 (12'0")	3670 (12'0")	3670 (12'0")	3670 (12'0")
10 Counterweight Clearance	mm (ft/in)	1640 (5'5")	1640 (5'5")	1640 (5'5")	1640 (5'5")
11 Upperframe Width (without walkways)	mm (ft/in)	3470 (11'5")	3470 (11'5")	3470 (11'5")	3470 (11'5")
12 Upperframe Width (with walkways)	mm (ft/in)	4510 (14'10")	4510 (14'10")	4510 (14'10")	4510 (14'10")
13 Walkway Width (each)	mm (ft/in)	520 (1'9")	520 (1'9")	520 (1'9")	520 (1'9")
14 Undercarriage Width (without steps)					
650 mm (26 in) Shoes	mm (ft/in)	4160 (13'8")	4160 (13'8")	4160 (13'8")	4160 (13'8")
750 mm (30 in) Shoes	mm (ft/in)	4260 (14'0")	4260 (14'0")	4260 (14'0")	4260 (14'0")
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Undercarriage Width (including steps)					
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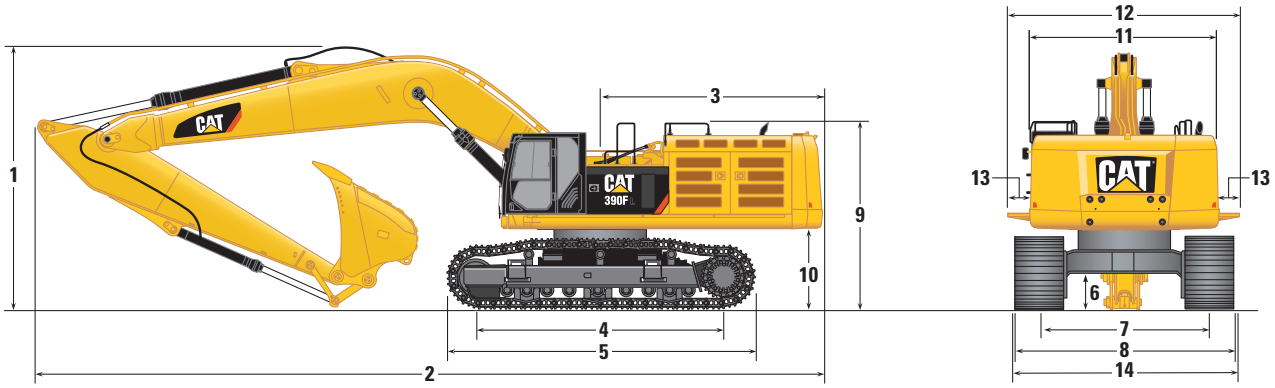
900 mm (35 in) Shoes	mm (ft/in)	4450 (14'7")	4450 (14'7")	4450 (14'7")	4450 (14'7")
Bucket Type		GD	GD	SDV	SDV
Bucket Capacity	m^3 (yd^3)	3.9 (5.1)	3.9 (5.1)	6.0 (7.84)	6.0 (7.84)
Bucket Tip Radius	mm (ft/in)	2424 (7'11")	2424 (7'11")	2505 (8'3")	2505 (8'3")

Dimensions

All dimensions are approximate. Dimensions may vary depending on bucket selection.



Boom Options		General Purpose Boom 8.4 m (27'7")			
Stick Options		**R5.5HB2 (18'1")**	**R4.4HB2 (14'5")**	**G3.4JC (11'2")**	**G2.92JC (9'7")**
1 Height (with boom/stick installed)	mm (ft/in)	5840 (19'2")	5290 (17'4")	5160 (16'11")	5000 (16'5")
2 Length (with boom/stick installed)	mm (ft/in)	14 500 (47'7")	14 690 (48'2")	14 720 (48'4")	14 930 (49'0")
3 Tail Swing Radius	mm (ft/in)	4700 (15'5")	4700 (15'5")	4700 (15'5")	4700 (15'5")
4 Length to Center of Rollers	mm (ft/in)	5120 (16'10")	5120 (16'10")	5120 (16'10")	5120 (16'10")
5 Track Length	mm (ft/in)	6358 (20'10")	6358 (20'10")	6358 (20'10")	6358 (20'10")
6 Ground Clearance	mm (ft/in)	900 (2'11")	900 (2'11")	900 (2'11")	900 (2'11")
7 Track Gauge (retracted)	mm (ft/in)	2750 (9'0")	2750 (9'0")	2750 (9'0")	2750 (9'0")
Track Gauge (extended)	mm (ft/in)	3510 (11'6")	3510 (11'6")	3510 (11'6")	3510 (11'6")
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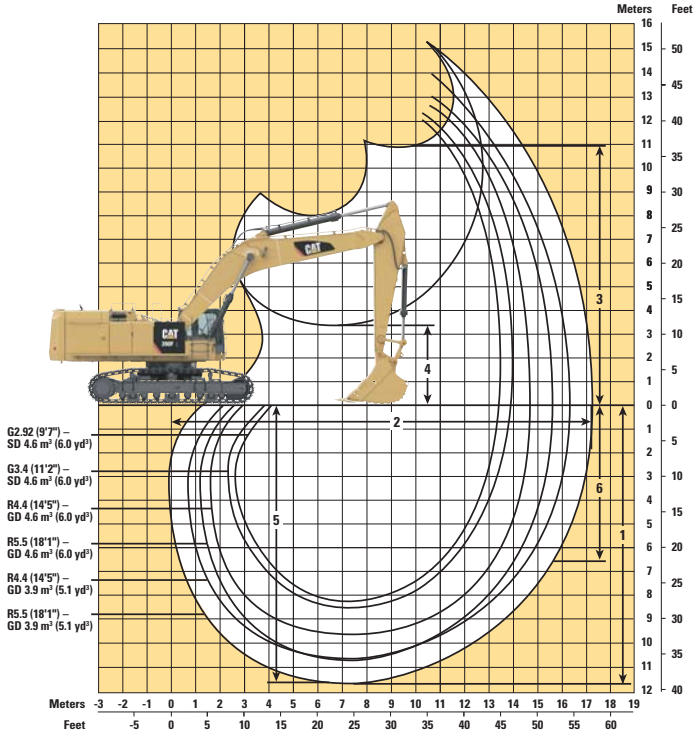
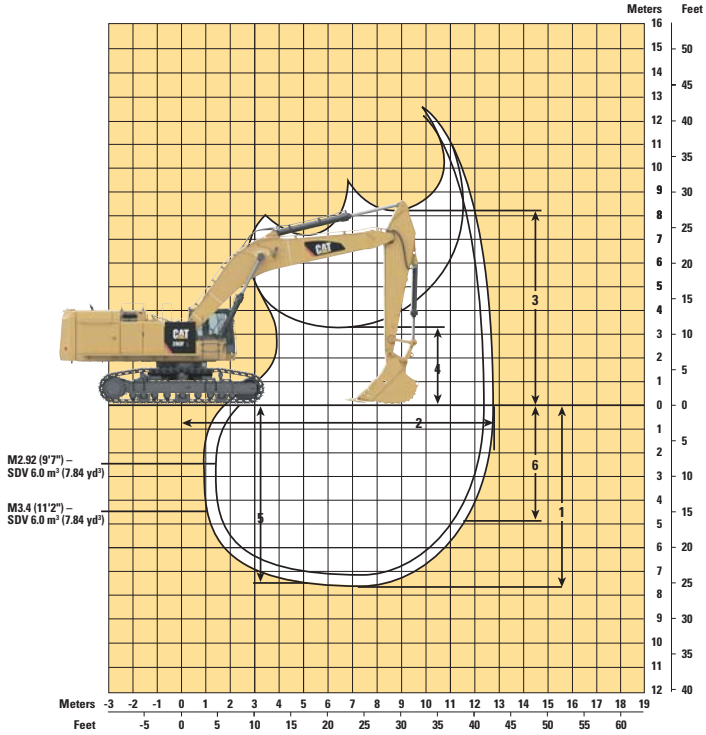
9 Guardrail Height	mm (ft/in)	3830 (12'7")	3830 (12'7")	3830 (12'7")	3830 (12'7")
Cab Height	mm (ft/in)	3670 (12'0")	3670 (12'0")	3670 (12'0")	3670 (12'0")
10 Counterweight Clearance	mm (ft/in)	1640 (5'5")	1640 (5'5")	1640 (5'5")	1640 (5'5")
11 Upperframe Width (without walkways)	mm (ft/in)	3470 (11'5")	3470 (11'5")	3470 (11'5")	3470 (11'5")
12 Upperframe Width (with walkways)	mm (ft/in)	4510 (14'10")	4510 (14'10")	4510 (14'10")	4510 (14'10")
13 Walkway Width (each)	mm (ft/in)	520 (1'9")	520 (1'9")	520 (1'9")	520 (1'9")
14 Undercarriage Width (without steps)					
650 mm (26 in) Shoes	mm (ft/in)	4160 (13'8")	4160 (13'8")	4160 (13'8")	4160 (13'8")
750 mm (30 in) Shoes	mm (ft/in)	4260 (14'0")	4260 (14'0")	4260 (14'0")	4260 (14'0")
900 mm (35 in) Shoes	mm (ft/in)	4410 (14'6")	4410 (14'6")	4410 (14'6")	4410 (14'6")
Undercarriage Width (including steps)					
650 mm (26 in) Shoes	mm (ft/in)	4450 (14'7")	4450 (14'7")	4450 (14'7")	4450 (14'7")
750 mm (30 in) Shoes	mm (ft/in)	4450 (14'7")	4450 (14'7")	4450 (14'7")	4450 (14'7")
900 mm (35 in) Shoes	mm (ft/in)	4450 (14'7")	4450 (14'7")	4450 (14'7")	4450 (14'7")
Bucket Type		GD	GD	SD	SD
Bucket Capacity	m^3 (yd^3)	4.6 (6.0)	4.6 (6.0)	4.6 (6.0)	4.6 (6.0)
Bucket Tip Radius	mm (ft/in)	2319 (7'7")	2319 (7'7")	2319 (7'7")	2319 (7'7")

390F L Hydraulic Excavator Specifications

Working Ranges

All dimensions are approximate. Dimensions may vary depending on bucket selection.





Boom Options		Reach Boom 10.0 m (32'10")		General Purpose Boom 8.4 m (27'7")				Mass Boom 7.25 m (23'9")	
Stick Options		**R5.5 m (18'1")**	**R4.4 m (14'5")**	**R5.5 m (18'1")**	**R4.4 m (14'5")**	**G3.4 m (11'2")**	**G2.92 m (9'7")**	**M3.4 m (11'2")**	**M2.92 m (9'7")**
Bucket		**GD 3.9 m³ (5.1 yd³)**	**GD 3.9 m³ (5.1 yd³)**	**GD 4.6 m³ (6.0 yd³)**	**GD 4.6 m³ (6.0 yd³)**	**SD 4.6 m³ (6.0 yd³)**	**SD 4.6 m³ (6.0 yd³)**	**SDV 6.0 m³ (7.84 yd³)**	**SDV 6.0 m³ (7.84 yd³)**
1 Maximum Digging Depth	mm	11 800	10 700	10 750	9650	8680	8210	7640	7160
	ft/in	38'9"	35'1"	35'3"	31'8"	28'6"	26'11"	25'1"	23'6"
2 Maximum Reach at Ground Line	mm	17 250	16 230	15 730	14 690	13 910	13 450	12 680	12 230
	ft/in	56'7"	53'3"	51'7"	48'2"	45'8"	44'1"	41'7"	40'1"
3 Maximum Loading Height	mm	10 960	10 530	9730	9280	9100	8860	8210	7990
	ft/in	36'0"	34'7"	31'11"	30'5"	29'10"	29'0"	26'11"	26'3"
4 Minimum Loading Height	mm	3320	4420	1950	3050	4030	4500	3210	3680
	ft/in	10'11"	14'6"	6'5"	10'0"	13'3"	14'9"	10'6"	12'1"
5 Maximum Depth Cut for 2240 mm (8'0") Level Bottom	mm	11 700	10 590	10 650	9540	8550	8070	7510	7020
	ft/in	38'5"	34'9"	34'11"	31'4"	28'1"	26'6"	24'8"	23'0"
6 Maximum Vertical Wall Digging Depth	mm	6670	5730	6330	5390	5960	5570	4920	4530
	ft/in	21'10"	18'9"	20'9"	17'8"	19'6"	18'3"	16'1"	14'10"
Maximum Cutting Height	mm	15 180	14 750	14 000	13 540	13 470	13 240	12 580	12 360
	ft/in	49'10"	48'5"	45'11"	44'5"	44'2"	43'5"	41'3"	40'7"
Bucket Digging Force (SAE)	kN	322	321	322	321	412	411	404	404
	lbf	72,400	72,100	72,400	72,100	92,600	92,400	90,900	90,800
Bucket Digging Force (ISO)	kN	365	363	365	363	471	470	471	470
	lbf	82,000	81,700	82,000	81,700	105,900	105,800	105,900	105,800
Stick Digging Force (SAE)	kN	230	268	230	268	315	343	314	342
	lbf	51,700	60,200	51,700	60,200	70,800	77,200	70,500	76,800
Stick Digging Force (ISO)	kN	236	276	236	276	326	356	326	356
	lbf	53,000	62,000	53,000	62,000	73,200	80,100	73,200	80,100

Operating Weights and Ground Pressures

	900 mm (35 in) Double Grouser Shoes				750 mm (30 in) Double Grouser Shoes				650 mm (26 in) Double Grouser Shoes			
	Weight		Ground Pressure		Weight		Ground Pressure		Weight		Ground Pressure	
	kg	lb	kPa	psi	kg	lb	kPa	psi	kg	lb	kPa	psi
Reach Boom – 10.0 m (32'10")												
3.9 m³ (5.1 yd³) GD Bucket												
R5.5 m (18'1") Stick	89 830	198,000	88.1	12.8	88 780	195,700	104.5	15.2	87 910	193,800	119.4	17.3
R4.4 m (14'5") Stick	89 320	196,900	87.6	12.7	88 275	194,600	103.9	15.1	87 400	192,700	118.7	17.2
General Purpose Boom – 8.4 m (27'7")												
4.6 m³ (6.0 yd³) GD Bucket												
R5.5 m (18'1") Stick	88 705	195,600	87.0	12.6	87 660	193,300	103.2	15.0	86 785	191,300	117.8	17.1
R4.4 m (14'5") Stick	88 200	194,400	86.5	12.5	87 150	192,100	102.6	14.9	86 275	190,200	117.2	17.0
4.6 m³ (6.0 yd³) SD Bucket												
G3.4 m (11'2") Stick	90 605	199,700	88.9	12.9	89 560	197,400	105.4	15.3	88 685	195,500	120.4	17.5
G2.92 m (9'7") Stick	90 300	199,100	88.6	12.9	89 255	196,800	105.0	15.2	88 380	194,800	120.0	17.4
Mass Boom – 7.25 m (23'9")												
6.0 m³ (7.84 yd³) SDV Bucket												
M3.4 m (11'2") Stick	92 025	202,900	90.3	13.1	90 975	200,600	107.1	15.5	90 105	198,600	122.4	17.8
M2.92 m (9'7") Stick	91 765	202,300	90.0	13.1	90 720	200,000	106.8	15.5	89 845	198,100	122.0	17.7

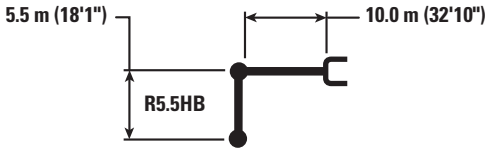
Major Component Weights

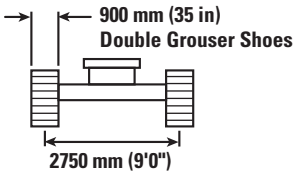
	kg	lb
Base Machine (with counterweight, without front linkage, without bucket)*		
650 mm (26 in) Shoes without Front Linkage	66 739	147,134
750 mm (30 in) Shoes without Front Linkage	67 613	149,061
900 mm (35 in) Shoes without Front Linkage	68 660	151,369
Two Boom Cylinders	1804	3,977
Counterweight Removal type	12 400	27,300
Counterweight Non Removal type	12 400	27,300
10.0 m (32'10") Reach Boom (includes lines, pins, stick cylinder)	9840	21,700
8.4 m (27'7") General Purpose Boom (includes lines, pins, stick cylinder)	8395	18,500
7.25 m (23'9") Mass Boom (includes lines, pins, stick cylinder)	8440	18,600
R5.5 m (18'1") Stick (includes lines, pins, bucket cylinder and linkage)	5430	12,000
R4.4 m (14'5") Stick (includes lines, pins, bucket cylinder and linkage)	4925	10,900
G3.4 m (11'2") Stick (includes lines, pins, bucket cylinder and linkage)	5190	11,400
G2.92 m (9'7") Stick (includes lines, pins, bucket cylinder and linkage)	4885	10,800
M3.4 m (11'2") Stick (includes lines, pins, bucket cylinder and linkage)	5450	12,000
M2.92 m (9'7") Stick (includes lines, pins, bucket cylinder and linkage)	5190	11,400
Bucket		
3.9 m³ (5.1 yd³) GD	4095	9,000
4.6 m³ (6.0 yd³) GD	4420	9,700
6.0 m³ (7.84 yd³) SDV	7675	16,900

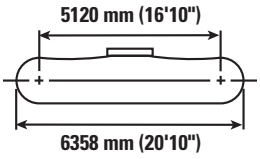
*Base machine includes 75 kg (165 lb) operator weight and 90% fuel weight, and undercarriage with center guard.

390F L Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 12.4 mt (27,337 lb) – without Bucket







		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
12.0 m **40.0 ft**	kg **lb**											*9600 ***21,300**	*9600 ***21,300**	11.83 **38.81**
10.5 m **35.0 ft**	kg **lb**											*9300 ***20,500**	*9300 ***20,500**	12.88 **42.26**
9.0 m **30.0 ft**	kg **lb**											*9150 ***20,150**	*9150 ***20,150**	13.68 **44.88**
7.5 m **25.0 ft**	kg **lb**											*9150 ***20,100**	8350 **18,550**	14.28 **46.85**
6.0 m **20.0 ft**	kg **lb**							*19 800 ***42,650**	*19 800 ***42,650**	*16 850 ***36,400**	*16 850 ***36,400**	*9250 ***20,350**	7700 **17,050**	14.69 **48.20**
4.5 m **15.0 ft**	kg **lb**					*28 600 ***61,450**	*28 600 ***61,450**	*22 050 ***47,550**	*22 050 ***47,550**	*18 250 ***39,450**	17 150 **36,950**	*9500 ***20,900**	7300 **16,050**	14.95 **49.05**
3.0 m **10.0 ft**	kg **lb**					*20 000 ***49,350**	*20 000 ***49,350**	*24 050 ***51,900**	20 750 **44,850**	*19 550 ***42,250**	16 050 **34,600**	*9900 ***21,750**	7000 **15,450**	15.05 **49.38**
1.5 m **5.0 ft**	kg **lb**					*15 650 ***37,200**	*15 650 ***37,200**	*25 400 ***54,900**	19 450 **42,000**	*20 550 ***44,400**	15 150 **32,650**	*10 450 ***23,000**	6900 **15,150**	14.99 **49.18**
0 m **0 ft**	kg **lb**					*16 950 ***39,400**	*16 950 ***39,400**	*25 950 ***56,200**	18 600 **40,150**	*21 100 ***45,650**	14 450 **31,150**	10 950 **24,100**	6900 **15,200**	14.79 **48.52**
–1.5 m **–5.0 ft**	kg **lb**			*11 250 ***25,700**	*11 250 ***25,700**	*20 650 ***47,600**	*20 650 ***47,600**	*25 800 ***55,850**	18 150 **39,100**	*21 150 ***45,750**	14 050 **30,250**	11 250 **24,850**	7100 **15,650**	14.42 **47.31**
–3.0 m **–10.0 ft**	kg **lb**	*12 200 ***27,500**	*12 200 ***27,500**	*16 750 ***37,950**	*16 750 ***37,950**	*26 100 ***59,850**	25 350 **54,500**	*24 950 ***54,000**	18 000 **38,750**	*20 650 ***44,650**	13 850 **29,800**	11 900 **26,200**	7500 **16,550**	13.88 **45.54**
–4.5 m **–15.0 ft**	kg **lb**	*17 800 ***40,100**	*17 800 ***40,100**	*22 900 ***51,950**	*22 900 ***51,950**	*28 300 ***61,300**	25 600 **55,050**	*23 400 ***50,600**	18 100 **38,900**	*19 550 ***42,200**	13 850 **29,800**	*11 800 ***26,000**	8200 **18,100**	13.14 **43.11**
–6.0 m **–20.0 ft**	kg **lb**	*24 050 ***54,250**	*24 050 ***54,250**	*30 050 ***64,950**	*30 050 ***64,950**	*25 150 ***54,250**	*25 150 ***54,250**	*21 100 ***45,400**	18 350 **39,550**	*17 700 ***38,000**	14 000 **30,200**	*11 500 ***25,300**	9300 **20,650**	12.17 **39.93**
–7.5 m **–25.0 ft**	kg **lb**			*24 250 ***51,950**	*24 250 ***51,950**	*20 850 ***44,600**	*20 850 ***44,600**	*17 700 ***37,750**	*17 700 ***37,750**	*14 800 ***31,300**	14 450 **31,200**	*10 850 ***23,700**	*10 850 ***23,700**	10.91 **35.79**
–9.0 m **–30.0 ft**	kg **lb**					*14 850	*14 850	*12 650 ***26,000**	*12 650 ***26,000**	*9800	*9800	*9250 ***19,850**	*9250 ***19,850**	9.23 **30.28**

* **ISO 10567**

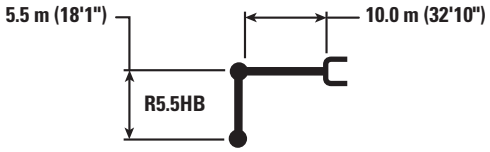
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

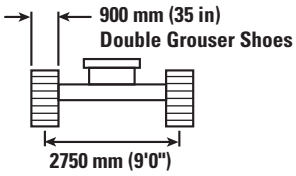
Lift capacity stays with ±5% for all available track shoes.

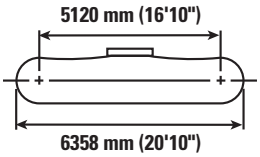
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

(continued on next page)

Reach Boom Lift Capacities – Counterweight: 12.4 mt (27,337 lb) – without Bucket (continued)







		10.5 m/35.0 ft		12.0 m/40.0 ft		13.5 m/45.0 ft		15.0 m/50.0 ft				
												m ft
12.0 m **40.0 ft**	kg **lb**									*9600 ***21,300**	*9600 ***21,300**	11.83 **38.81**
10.5 m **35.0 ft**	kg **lb**			*12 100 ***25,100**	*12 100 ***25,100**					*9300 ***20,500**	*9300 ***20,500**	12.88 **42.26**
9.0 m **30.0 ft**	kg **lb**	*13 350 ***29,050**	*13 350 ***29,050**	*12 550 ***27,350**	12 100 **25,900**	*10 050	9550			*9150 ***20,150**	*9150 ***20,150**	13.68 **44.88**
7.5 m **25.0 ft**	kg **lb**	*14 000 ***30,400**	*14 000 ***30,400**	*12 900 ***28,100**	11 800 **25,250**	*12 100 ***25,450**	9400 **20,050**			*9150 ***20,100**	8350 **18,550**	14.28 **46.85**
6.0 m **20.0 ft**	kg **lb**	*14 850 ***32,150**	14 250 **30,650**	*13 400 ***29,150**	11 350 **24,350**	*12 350 ***26,900**	9150 **19,600**			*9250 ***20,350**	7700 **17,050**	14.69 **48.20**
4.5 m **15.0 ft**	kg **lb**	*15 750 ***34,100**	13 500 **29,050**	*14 000 ***30,350**	10 850 **23,350**	*12 700 ***27,600**	8850 **18,950**			*9500 ***20,900**	7300 **16,050**	14.95 **49.05**
3.0 m **10.0 ft**	kg **lb**	*16 600 ***35,950**	12 800 **27,500**	*14 550 ***31,550**	10 400 **22,300**	*13 000 **28,200**	8550 **18,300**	*10 250	7050	*9900 ***21,750**	7000 **15,450**	15.05 **49.38**
1.5 m **5.0 ft**	kg **lb**	*17 300 ***37,400**	12 150 **26,150**	*15 000 ***32,450**	9950 **21,350**	12 800 **27,550**	8250 **17,650**			*10 450 ***23,000**	6900 **15,150**	14.99 **49.18**
0 m **0 ft**	kg **lb**	*17 700 ***38,300**	11 650 **25,050**	15 000 **32,200**	9600 **20,600**	12 550 **27,000**	8000 **17,150**			10 950 **24,100**	6900 **15,200**	14.79 **48.52**
–1.5 m **–5.0 ft**	kg **lb**	*17 750 ***38,400**	11 300 **24,300**	14 700 **31,650**	9300 **20,050**	12 400 **26,650**	7850 **16,850**			11 250 **24,850**	7100 **15,650**	14.42 **47.31**
–3.0 m **–10.0 ft**	kg **lb**	*17 400 ***37,550**	11 100 **23,950**	14 550 **31,350**	9200 **19,800**	12 350 **26,600**	7800 **16,800**			11 900 ***26,200**	7500 **16,550**	13.88 **45.54**
–4.5 m **–15.0 ft**	kg **lb**	*16 450 ***35,450**	11 100 **23,900**	*13 850 ***29,600**	9200 **19,850**					*11 800 ***26,000**	8200 **18,100**	13.14 **43.11**
–6.0 m **–20.0 ft**	kg **lb**	*14 800 ***31,550**	11 250 **24,300**	*11 900	9450					*11 500 ***25,300**	9300 **20,650**	12.17 **39.93**
–7.5 m **–25.0 ft**	kg **lb**	*11 800 ***24,350**	11 700 ***24,350**							*10 850 ***23,700**	*10 850 ***23,700**	10.91 **35.79**
–9.0 m **–30.0 ft**	kg **lb**									*9250 ***19,850**	*9250 ***19,850**	9.23 **30.28**

* **ISO 10567**

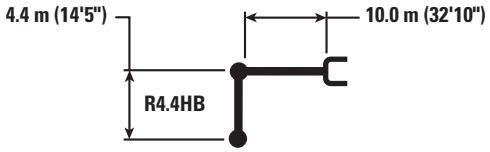
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

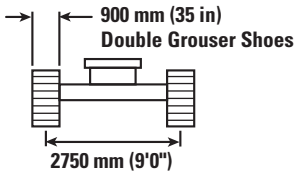
Lift capacity stays with ±5% for all available track shoes.

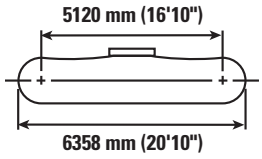
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

390F L Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 12.4 mt (27,337 lb) – without Bucket







		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		13.5 m/45.0 ft				
																		m ft
12.0 m **40.0 ft**	kg **lb**									*13 000 ****	*13 000 ****					*12 950 **28,750**	*12 950 **28,750**	10.51 **34.48**
10.5 m **35.0 ft**	kg **lb**									*14 450 **31,650**	*14 450 **31,650**					*12 450 **27,500**	*12 450 **27,500**	11.68 **38.32**
9.0 m **30.0 ft**	kg **lb**									*14 750 **32,100**	*14 750 **32,100**	*13 800 **30,250**	11 800 **25,200**			*12 250 **26,950**	10 750 **24,000**	12.56 **41.21**
7.5 m **25.0 ft**	kg **lb**							*17 150 **37,100**	*17 150 **37,100**	*15 300 **33,250**	14 550 **31,300**	*14 050 **30,650**	11 550 **24,750**			*12 250 **26,950**	9600 **21,350**	13.21 **43.34**
6.0 m **20.0 ft**	kg **lb**			*28 100 **60,200**	*28 100 **60,200**	*21 950 **47,250**	*21 950 **47,250**	*18 400 **39,750**	17 750 **38,250**	*16 100 **34,850**	13 950 **30,050**	*14 500 **31,450**	11 200 **24,050**	*13 350	9050	*12 450 **27,350**	8850 **19,550**	13.66 **44.82**
4.5 m **15.0 ft**	kg **lb**					*24 050 **51,850**	21 600 **46,700**	*19 700 **42,550**	16 700 **36,050**	*16 900 **36,550**	13 300 **28,600**	*14 950 **32,400**	10 750 **23,150**	13 400 **28,800**	8800 **18,900**	12 700 **28,050**	8350 **18,350**	13.94 **45.73**
3.0 m **10.0 ft**	kg **lb**					*25 700 **55,450**	20 150 **43,550**	*20 750 **44,900**	15 750 **34,000**	*17 600 **38,100**	12 650 **27,300**	*15 350 **33,300**	10 350 **22,300**	13 150 **28,250**	8600 **18,400**	12 350 **27,200**	8000 **17,650**	14.04 **46.06**
1.5 m **5.0 ft**	kg **lb**					*26 450 **57,250**	19 200 **41,450**	*21 450 **46,450**	15 050 **32,400**	*18 050 **39,100**	12 150 **26,150**	15 400 **33,150**	10 000 **21,550**	12 900 **27,800**	8350 **17,950**	12 250 **27,000**	7900 **17,400**	13.98 **45.87**
0 m **0 ft**	kg **lb**			*13 250 **31,500**	*13 250 **31,500**	*26 400 **57,150**	18 700 **40,250**	*21 650 **46,850**	14 550 **31,350**	*18 250 **39,450**	11 750 **25,350**	15 100 **32,550**	9750 **20,950**	12 750 **27,450**	8200 **17,650**	12 400 **27,350**	8000 **17,550**	13.76 **45.14**
–1.5 m **–5.0 ft**	kg **lb**			*20 150 **46,650**	*20 150 **46,650**	*25 600 **55,550**	18 500 **39,800**	*21 300 **46,100**	14 300 **30,800**	*18 000 **38,900**	11 550 **24,850**	14 950 **32,200**	9600 **20,650**			12 900 **28,400**	8250 **18,200**	13.37 **43.86**
–3.0 m **–10.0 ft**	kg **lb**	*18 050 **41,100**	*18 050 **41,100**	*28 450 **62,250**	26 250 **56,350**	*24 200 **52,450**	18 550 **39,900**	*20 350 **44,050**	14 250 **30,650**	*17 200 **37,150**	11 500 **24,750**	*14 500 **31,150**	9550 **20,650**			*13 050 **28,800**	8850 **19,500**	12.78 **41.93**
–4.5 m **–15.0 ft**	kg **lb**	*26 900 **61,100**	*26 900 **61,100**	*25 800 **56,000**	*25 800 **56,000**	*22 100 **47,800**	18 750 **40,350**	*18 750 **40,400**	14 350 **30,950**	*15 750 **33,800**	11 600 **25,000**					*12 800 **28,150**	9800 **21,700**	11.97 **39.27**
–6.0 m **–20.0 ft**	kg **lb**	*24 450 **52,850**	*24 450 **52,850**	*22 000 **47,450**	*22 000 **47,450**	*19 100 **41,000**	*19 100 **41,000**	*16 150 **34,500**	14 700 **31,750**	*13 100 **27,450**	11 950 **25,850**					*12 150 **26,650**	11 400 **25,450**	10.90 **35.76**
–7.5 m **–25.0 ft**	kg **lb**			*16 750 **35,600**	*16 750 **35,600**	*14 650 **30,850**	*14 650 **30,850**	*11 850 **24,300**	*11 850 **24,300**							*10 750 **23,300**	*10 750 **23,300**	9.46 **31.04**

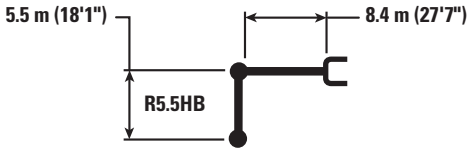
* **ISO 10567**

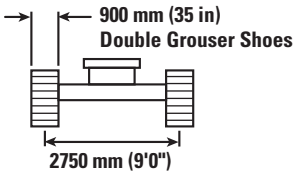
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

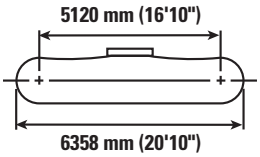
Lift capacity stays with ±5% for all available track shoes.

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

General Purpose Boom Lift Capacities – Counterweight: 12.4 mt (27,337 lb) – without Bucket







		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				
														m ft
12.0 m **40.0 ft**	kg **lb**											*8950 ***19,900**	*8950 ***19,900**	9.84 **32.28**
10.5 m **35.0 ft**	kg **lb**											*8350 ***18,500**	*8350 ***18,500**	11.08 **36.35**
9.0 m **30.0 ft**	kg **lb**											*8050 ***17,750**	*8050 ***17,750**	12.01 **39.40**
7.5 m **25.0 ft**	kg **lb**											*7950 ***17,450**	*7950 ***17,450**	12.68 **41.60**
6.0 m **20.0 ft**	kg **lb**											*7950 ***17,500**	*7950 ***17,500**	13.15 **43.14**
4.5 m **15.0 ft**	kg **lb**							*26 650 ***57,450**	*26 650 ***57,450**	*21 800 ***47,150**	*21 800 ***47,150**	*8100 ***17,850**	*8100 ***17,850**	13.44 **44.09**
3.0 m **10.0 ft**	kg **lb**							*31 000 ***66,850**	*31 000 ***66,850**	*24 350 ***52,650**	23 250 **50,150**	*8450 ***18,550**	*8450 ***18,550**	13.55 **44.46**
1.5 m **5.0 ft**	kg **lb**							*34 200 ***73,900**	30 450 **65,650**	*26 450 ***57,200**	22 000 **47,400**	*8900 ***19,600**	*8900 ***19,600**	13.49 **44.26**
0 m **0 ft**	kg **lb**					*18 900 ***43,300**	*18 900 ***43,300**	*35 800 ***77,500**	29 150 **62,750**	*27 750 ***60,100**	21 050 **45,400**	*9600 ***21,100**	9150 **20,200**	13.26 **43.50**
–1.5 m **–5.0 ft**	kg **lb**			*14 150 ***31,800**	*14 150 ***31,800**	*23 150 ***52,650**	*23 150 ***52,650**	*35 900 ***77,750**	28 500 **61,250**	*28 150 ***60,950**	20 500 **44,100**	*10 550 ***23,300**	9500 **21,000**	12.84 **42.13**
–3.0 m **–10.0 ft**	kg **lb**	*16 300 ***36,350**	*16 300 ***36,350**	*20 100 ***45,200**	*20 100 ***45,200**	*29 350 ***66,650**	*29 350 ***66,650**	*34 700 ***75,100**	28 250 **60,750**	*27 550 ***59,600**	20 200 **43,500**	*12 050 ***26,600**	10 200 **22,500**	12.23 **40.12**
–4.5 m **–15.0 ft**	kg **lb**	*22 150 ***49,600**	*22 150 ***49,600**	*27 000 ***60,800**	*27 000 ***60,800**	*37 700 ***85,800**	*37 700 ***85,800**	*32 150 ***69,450**	28 350 **61,000**	*25 850 ***55,750**	20 200 **43,550**	*14 300 ***31,850**	11 350 **25,150**	11.39 **37.37**
–6.0 m **–20.0 ft**	kg **lb**			*35 500 ***80,350**	*35 500 ***80,350**	*35 100 ***75,500**	*35 100 ***75,500**	*28 000 ***60,150**	*28 000 ***60,150**	*22 650 ***48,500**	20 500 **44,200**	*14 450 ***31,700**	13 350 **29,800**	10.25 **33.63**
–7.5 m **–25.0 ft**	kg **lb**					*26 500 ***55,950**	*26 500 ***55,950**	*21 600 ***45,450**	*21 600 ***45,450**	*17 150 ***35,600**	*17 150 ***35,600**	*13 200 ***28,700**	*13 200 ***28,700**	8.71 **28.58**

* ISO 10567

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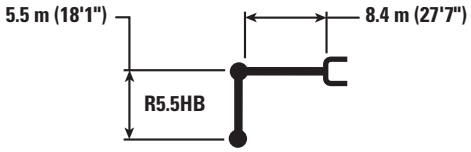
Lift capacity stays with ±5% for all available track shoes.

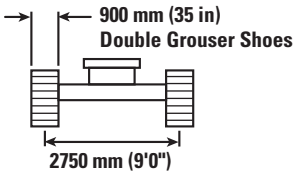
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

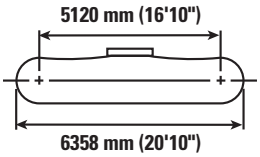
(continued on next page)

390F L Hydraulic Excavator Specifications

General Purpose Boom Lift Capacities – Counterweight: 12.4 mt (27,337 lb) – without Bucket (continued)







		9.0 m/30.0 ft		10.5 m/35.0 ft		12.0 m/40.0 ft		13.5 m/45.0 ft				
												m **ft**
12.0 m **40.0 ft**	kg **lb**									*8950 ***19,900**	*8950 ***19,900**	9.84 **32.28**
10.5 m **35.0 ft**	kg **lb**			*10 850 ***21,700**	*10 850 ***21,700**					*8350 ***18,500**	*8350 ***18,500**	11.08 **36.35**
9.0 m **30.0 ft**	kg **lb**			*12 900 ***27,500**	*12 900 ***27,500**	*8050	*8050			*8050 ***17,750**	*8050 ***17,750**	12.01 **39.40**
7.5 m **25.0 ft**	kg **lb**			*14 300 ***30,850**	*14 300 ***30,850**	*11 400 ***22,950**	*11 400 ***22,950**			*7950 ***17,450**	*7950 ***17,450**	12.68 **41.60**
6.0 m **20.0 ft**	kg **lb**	*17 300 ***37,500**	*17 300 ***37,500**	*15 850 ***34,550**	15 050 **32,350**	*13 400 ***27,950**	11 950 **25,600**			*7950 ***17,500**	*7950 ***17,500**	13.15 **43.14**
4.5 m **15.0 ft**	kg **lb**	*18 800 ***40,800**	18 550 **40,000**	*16 800 ***36,550**	14 500 **31,200**	*15 250 ***32,100**	11 600 **24,950**			*8100 ***17,850**	*8100 ***17,850**	13.44 **44.09**
3.0 m **10.0 ft**	kg **lb**	*20 400 ***44,200**	17 700 **38,100**	*17 800 ***38,600**	13 950 **30,000**	*15 950 ***34,650**	11 250 **24,200**	*8850	*8850	*8450 ***18,550**	*8450 ***18,550**	13.55 **44.46**
1.5 m **5.0 ft**	kg **lb**	*21 750 ***47,100**	16 900 **36,350**	*18 650 ***40,450**	13 450 **28,900**	16 350 **35,150**	10 950 **23,500**			*8900 ***19,600**	*8900 ***19,600**	13.49 **44.26**
0 m **0 ft**	kg **lb**	*22 700 ***49,100**	16 250 **34,950**	*19 200 ***41,600**	13 000 **27,950**	16 050 **34,550**	10 650 **22,900**			*9600 ***21,100**	9150 **20,200**	13.26 **43.50**
–1.5 m **–5.0 ft**	kg **lb**	*23 000 ***49,750**	15 800 **34,000**	19 300 **41,500**	12 700 **27,300**	15 850 **34,150**	10 500 **22,550**			*10 550 ***23,300**	9500 **21,000**	12.84 **42.13**
–3.0 m **–10.0 ft**	kg **lb**	*22 550 ***48,750**	15 600 **33,550**	*18 800 ***40,500**	12 550 **27,000**	*15 350 ***27,050**	10 450 **22,550**			*12 050 ***26,600**	10 200 **22,500**	12.23 **40.12**
–4.5 m **–15.0 ft**	kg **lb**	*21 150 ***45,450**	15 550 **33,550**	*17 250 ***36,800**	12 600 **27,200**					*14 300 ***31,850**	11 350 **25,150**	11.39 **37.37**
–6.0 m **–20.0 ft**	kg **lb**	*18 250 ***38,650**	15 850 **34,200**							*14 450 ***31,700**	13 350 **29,800**	10.25 **33.63**
–7.5 m **–25.0 ft**	kg **lb**									*13 200 ***28,700**	*13 200 ***28,700**	8.71 **28.58**

* **ISO 10567**

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Lift capacity stays with ±5% for all available track shoes.

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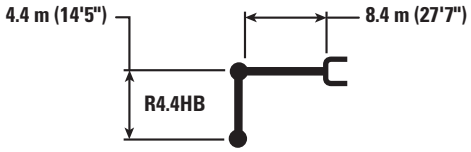
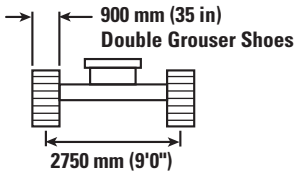
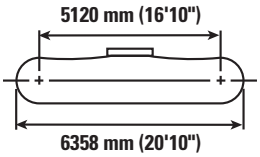
General Purpose Boom Lift Capacities – Counterweight: 12.4 mt (27,337 lb) – without Bucket







		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
10.5 m **35.0 ft**	kg **lb**									*15 400 ***31,750**	*15 400 ***31,750**					*11 350 ***25,200**	*11 350 ***25,200**	9.80 **32.15**
9.0 m **30.0 ft**	kg **lb**									*17 300 ***37,850**	*17 300 ***37,850**	*13 350 ***25,550**	*13 350 ***25,550**			*10 900 ***24,050**	*10 900 ***24,050**	10.83 **35.53**
7.5 m **25.0 ft**	kg **lb**									*18 000 ***39,250**	*18 000 ***39,250**	*16 850 ***35,700**	15 150 **32,500**			*10 700 ***23,600**	*10 700 ***23,600**	11.58 **37.99**
6.0 m **20.0 ft**	kg **lb**							*21 850 ***47,250**	*21 850 ***47,250**	*19 200 ***41,650**	18 950 **40,850**	*17 450 ***37,950**	14 800 **31,750**	*11 750	11 750	*10 750 ***23,700**	*10 750 ***23,700**	12.09 **39.67**
4.5 m **15.0 ft**	kg **lb**					*30 400 ***65,400**	*30 400 ***65,400**	*24 200 ***52,300**	23 950 **51,700**	*20 600 ***44,600**	18 200 **39,200**	*18 200 ***39,550**	14 350 **30,850**	*15 150 ***29,200**	11 550 **24,700**	*11 050 ***24,250**	10 900 **24,050**	12.40 **40.68**
3.0 m **10.0 ft**	kg **lb**					*34 100 ***73,500**	31 350 **67,650**	*26 400 ***57,100**	22 700 **48,950**	*21 900 ***47,500**	17 450 **37,550**	*19 000 ***41,200**	13 850 **29,800**	16 700 ***34,000**	11 250 **24,200**	*11 500 ***25,300**	10 500 **23,150**	12.52 **41.08**
1.5 m **5.0 ft**	kg **lb**					*36 200 ***78,200**	29 850 **64,300**	*28 000 ***60,550**	21 700 **46,750**	*22 950 ***49,700**	16 750 **36,150**	*19 550 ***42,400**	13 450 **28,900**	16 400 ***35,200**	11 000 **23,700**	*12 200 ***26,850**	10 400 **22,900**	12.46 **40.88**
0 m **0 ft**	kg **lb**					*36 500 ***79,150**	29 050 **62,550**	*28 650 ***62,000**	21 050 **45,300**	*23 450 ***50,750**	16 300 **35,100**	19 700 **42,400**	13 100 **28,250**	16 250 ***29,700**	10 850 **23,350**	*13 300 ***29,250**	10 600 **23,300**	12.21 **40.06**
–1.5 m **–5.0 ft**	kg **lb**			*24 050 ***54,750**	*24 050 ***54,750**	*35 450 ***76,900**	28 750 **61,850**	*28 300 ***61,250**	20 700 **44,550**	*23 200 ***50,200**	16 000 **34,500**	*19 400 ***41,850**	12 950 **27,850**			*14 850 ***32,800**	11 100 **24,500**	11.76 **38.58**
–3.0 m **–10.0 ft**	kg **lb**	*23 500 ***52,850**	*23 500 ***52,850**	*33 450 ***76,050**	*33 450 ***76,050**	*33 200 ***71,900**	28 850 **62,000**	*26 850 ***58,100**	20 600 **44,400**	*22 050 ***47,600**	15 950 **34,350**	*18 050 ***38,650**	12 950 **27,900**			*16 450 ***36,200**	12 100 **26,700**	11.08 **36.35**
–4.5 m **–15.0 ft**	kg **lb**	*33 150 ***74,750**	*33 150 ***74,750**	*36 200 ***78,300**	*36 200 ***78,300**	*29 500 ***63,750**	29 150 **62,750**	*24 150 ***51,950**	20 800 **44,850**	*19 600 ***41,900**	16 100 **34,800**					*16 050 ***35,300**	13 800 **30,650**	10.14 **33.27**
–6.0 m **–20.0 ft**	kg **lb**			*28 650 ***61,400**	*28 650 ***61,400**	*23 900 ***51,050**	*23 900 ***51,050**	*19 400 ***41,050**	*19 400 ***41,050**							*14 950 ***32,650**	*14 950 ***32,650**	8.84 **29.00**

* ISO 10567

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Lift capacity stays with ±5% for all available track shoes.

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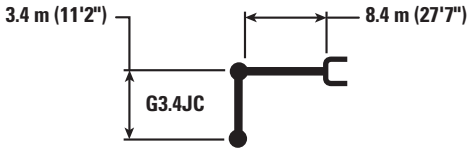
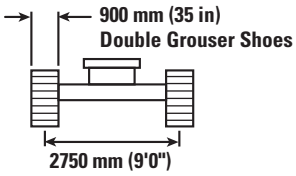
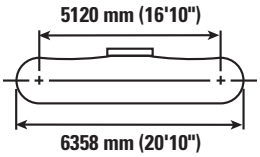
390F L Hydraulic Excavator Specifications

General Purpose Boom Lift Capacities – Counterweight: 12.4 mt (27,337 lb) – without Bucket







		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
10.5 m **35.0 ft**	kg **lb**											*15 450 ***34,350**	*15 450 ***34,350**	8.74 **28.67**
9.0 m **30.0 ft**	kg **lb**							*18 750 ***41,150**	*18 750 **41,000**			*14 500 ***32,100**	*14 500 ***32,100**	9.89 **32.45**
7.5 m **25.0 ft**	kg **lb**					*21 450 ***46,450**	*21 450 ***46,450**	*19 250 ***41,900**	18 750 **40,350**	*17 150	14 350	*14 100 ***31,100**	13 850 **30,800**	10.71 **35.14**
6.0 m **20.0 ft**	kg **lb**			*28 700 ***61,750**	*28 700 ***61,750**	*23 350 ***50,500**	*23 350 ***50,500**	*20 200 ***43,850**	18 150 **39,050**	*18 250 ***39,750**	14 100 **30,300**	*14 050 ***30,900**	12 500 **27,650**	11.26 **36.94**
4.5 m **15.0 ft**	kg **lb**			*32 800 ***70,500**	31 700 **68,500**	*25 500 ***55,050**	22 850 **49,350**	*21 400 ***46,350**	17 450 **37,550**	*18 800 ***40,800**	13 750 **29,500**	*14 250 ***31,400**	11 650 **25,750**	11.59 **38.02**
3.0 m **10.0 ft**	kg **lb**					*27 300 ***58,950**	21 750 **46,900**	*22 450 ***48,600**	16 750 **36,100**	*19 300 ***41,850**	13 350 **28,700**	*14 800 ***32,550**	11 250 **24,800**	11.72 **38.45**
1.5 m **5.0 ft**	kg **lb**			 ***64,950**	 **62,150**	*28 250 ***61,150**	20 950 **45,150**	*23 100 ***50,000**	16 200 **34,900**	*19 550 **42,150**	13 000 **27,950**	*15 650 ***34,500**	11 150 **24,600**	11.65 **38.22**
0 m **0 ft**	kg **lb**			*33 250 ***76,750**	28 550 **61,350**	*28 200 ***61,150**	20 500 **44,150**	*23 100 ***50,050**	15 850 **34,150**	*19 350 **41,700**	12 800 **27,500**	*17 050 ***37,500**	11 450 **25,200**	11.38 **37.34**
–1.5 m **–5.0 ft**	kg **lb**	*21 450 ***49,500**	*21 450 ***49,500**	*33 300 ***72,400**	28 550 **61,350**	*27 150 ***58,800**	20 350 **43,850**	*22 300 ***48,200**	15 700 **33,850**	*18 250 ***39,100**	12 750 **27,500**	*17 050 ***37,600**	12 150 **26,800**	10.90 **35.76**
–3.0 m **–10.0 ft**	kg **lb**	*35 400 ***77,250**	*35 400 ***77,250**	*30 150 ***65,400**	28 800 **61,900**	*24 900 ***53,800**	20 500 **44,100**	*20 350 ***43,650**	15 800 **34,100**			*16 600 ***36,500**	13 500 **29,900**	10.71 **35.14**
–4.5 m **–15.0 ft**	kg **lb**	*29 450 ***63,800**	*29 450 ***63,800**	*25 450 ***54,800**	*25 450 ***54,800**	*21 000 ***45,000**	20 900 **45,000**	*16 050	*16 050			*15 500 ***33,900**	*15 500 ***33,900**	9.13 **29.95**
–6.0 m **–20.0 ft**	kg **lb**			*18 000 ***37,850**	*18 000 ***37,850**	*13 500	*13 500					*13 000 ***30,250**	*13 000 ***30,250**	7.61 **24.97**

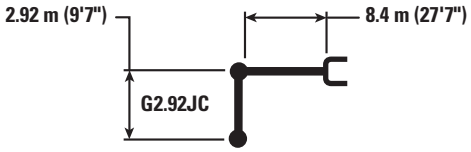
* **ISO 10567**

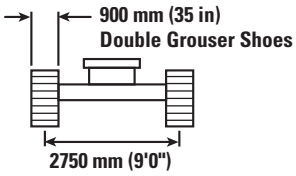
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

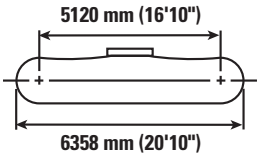
Lift capacity stays with ±5% for all available track shoes.

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

General Purpose Boom Lift Capacities – Counterweight: 12.4 mt (27,337 lb) – without Bucket







		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
10.5 m **35.0 ft**	kg **lb**					*21 250 ***47,000**	*21 250 ***47,000**					*18 700 ***41,650**	*18 700 ***41,650**	8.13 **26.67**
9.0 m **30.0 ft**	kg **lb**					*21 300 ***46,500**	*21 300 ***46,500**	*19 850 ***43,050**	18 950 **40,550**			*17 500 ***38,700**	*17 500 ***38,700**	9.36 **30.71**
7.5 m **25.0 ft**	kg **lb**					*22 500 ***48,850**	*22 500 ***48,850**	*20 150 ***43,900**	18 650 **40,150**			*16 950 ***37,400**	15 000 **33,400**	10.22 **33.53**
6.0 m **20.0 ft**	kg **lb**			*30 300 ***65,150**	*30 300 ***65,150**	*24 400 ***52,700**	23 950 **51,650**	*21 000 ***45,650**	18 100 **38,950**	*19 000 ***41,450**	14 100 **30,250**	*16 900 ***37,200**	13 450 **29,750**	10.80 **35.43**
4.5 m **15.0 ft**	kg **lb**					*26 400 ***57,050**	22 750 **49,050**	*22 100 ***47,850**	17 400 **37,550**	*19 350 ***42,100**	13 800 **29,600**	*17 200 ***37,850**	12 500 **27,650**	11.14 **36.55**
3.0 m **10.0 ft**	kg **lb**					*28 000 ***60,450**	21 700 **46,800**	*23 000 ***49,800**	16 800 **36,200**	*19 750 ***42,850**	13 400 **28,900**	*17 850 ***39,300**	12 050 **26,600**	11.28 **37.01**
1.5 m **5.0 ft**	kg **lb**					*28 650 ***62,000**	21 000 **45,300**	*23 450 ***50,800**	16 300 **35,150**	19 750 **42,500**	13 150 **28,300**	17 950 **39,550**	12 000 **26,400**	11.20 **36.75**
0 m **0 ft**	kg **lb**			*31 000 ***74,100**	28 800 **61,900**	*28 250 ***61,250**	20 650 **44,550**	*23 250 ***50,300**	16 000 **34,550**	*19 350 ***41,650**	13 000 **28,000**	*18 200 ***40,100**	12 350 **27,150**	10.92 **35.83**
–1.5 m **–5.0 ft**	kg **lb**			*32 350 ***70,400**	28 900 **62,150**	*26 800 ***58,150**	20 600 **44,400**	*22 100 ***47,750**	15 950 **34,400**			*17 900 ***39,400**	13 200 **29,100**	10.42 **34.19**
–3.0 m **–10.0 ft**	kg **lb**	*32 300 ***70,700**	*32 300 ***70,700**	*28 850 ***62,600**	*28 850 ***62,600**	*24 150 ***52,150**	20 800 **44,850**	*19 550 ***41,800**	16 150 **34,900**			*17 200 ***37,850**	14 800 **32,800**	9.65 **31.66**
–4.5 m **–15.0 ft**	kg **lb**	*26 250 ***56,950**	*26 250 ***56,950**	*23 550 ***50,750**	*23 550 ***50,750**	*19 500 ***41,500**	*19 500 ***41,500**					*15 650 ***34,250**	*15 650 ***34,250**	8.55 **28.05**

* **ISO 10567**

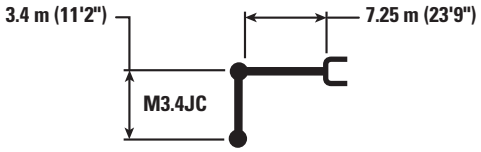
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

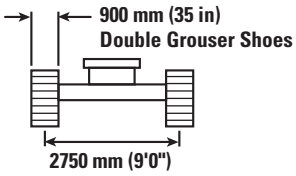
Lift capacity stays with ±5% for all available track shoes.

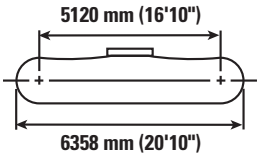
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

390F L Hydraulic Excavator Specifications

Mass Boom Lift Capacities – Counterweight: 12.4 mt (27,337 lb) – without Bucket







		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
10.5 m **35.0 ft**	kg **lb**											*17 250 ***38,550**	*17 250 ***38,550**	6.97 **22.87**
9.0 m **30.0 ft**	kg **lb**							*21 550 ***45,550**	*21 550 ***45,550**			*15 800 ***34,950**	*15 800 ***34,950**	8.38 **27.49**
7.5 m **25.0 ft**	kg **lb**							*23 200 ***50,500**	*23 200 ***50,500**	*18 850 ***36,900**	18 800 ***36,900**	*15 200 ***33,500**	*15 200 ***33,500**	9.33 **30.61**
6.0 m **20.0 ft**	kg **lb**					*29 000 ***62,650**	*29 000 ***62,650**	*24 600 ***53,350**	*24 600 ***53,350**	*21 850 ***47,650**	18 450 **39,650**	*15 100 ***33,250**	*15 100 ***33,250**	9.66 **31.69**
4.5 m **15.0 ft**	kg **lb**			*45 150 ***96,800**	*45 150 ***96,800**	*32 650 ***70,500**	*32 650 ***70,500**	*26 450 ***57,250**	23 800 **51,300**	*22 700 ***49,300**	17 900 **38,500**	*15 450 ***33,950**	14 300 **31,550**	10.33 **33.89**
3.0 m **10.0 ft**	kg **lb**					*35 800 ***77,300**	31 750 **68,450**	*28 100 ***60,850**	22 750 **49,050**	*23 500 ***50,950**	17 300 **37,250**	*16 200 ***35,600**	13 700 **30,150**	10.48 **34.38**
1.5 m **5.0 ft**	kg **lb**					*37 200 ***80,550**	30 400 **65,500**	*29 050 ***62,950**	21 900 **47,200**	*23 850 ***51,700**	16 800 **36,200**	*17 450 ***38,350**	13 600 **29,950**	10.40 **34.12**
0 m **0 ft**	kg **lb**			*27 900 ***64,500**	*27 900 ***64,500**	*36 650 ***79,450**	29 750 **64,000**	*28 900 ***62,550**	21 400 **46,050**	*23 450 ***50,650**	16 500 **35,500**	*19 400 ***42,800**	14 050 **30,950**	10.10 **33.14**
–1.5 m **–5.0 ft**	kg **lb**	*23 500 ***53,050**	*23 500 ***53,050**	*41 650 ***93,550**	*41 650 ***93,550**	*34 200 ***74,100**	29 600 **63,600**	*27 250 ***58,850**	21 200 **45,650**	*21 650 ***46,350**	16 400 **35,350**	*19 450 ***42,850**	15 200 **33,500**	9.55 **31.33**
–3.0 m **–10.0 ft**	kg **lb**	*38 650 ***87,350**	*38 650 ***87,350**	*36 350 ***78,900**	*36 350 ***78,900**	*29 650 ***64,050**	*29 650 ***64,050**	*23 550 ***50,500**	21 350 **46,050**			*18 450 ***40,500**	17 450 **38,700**	8.70 **28.54**
–4.5 m **–15.0 ft**	kg **lb**			*26 650 ***57,100**	*26 650 ***57,100**	*22 050 ***46,750**	*22 050 ***46,750**					*15 900 ***34,650**	*15 900 ***34,650**	7.45 **24.44**

* ISO 10567

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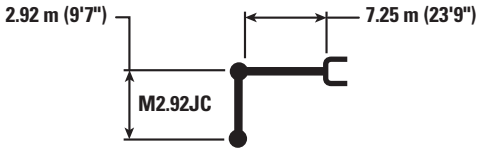
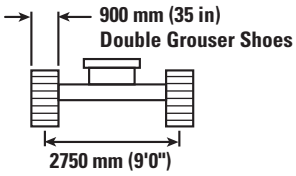
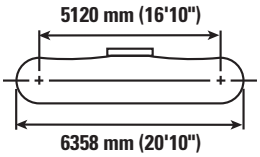
Lift capacity stays with ±5% for all available track shoes.

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

Mass Boom Lift Capacities – Counterweight: 12.4 mt (27,337 lb) – without Bucket







		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
10.5 m **35.0 ft**	kg **lb**											*21 000	*21 000	6.29 **20.64**
9.0 m **30.0 ft**	kg **lb**							*22 700 ***44,500**	*22 700 ***44,500**			*19 000 ***42,100**	*19 000 ***42,100**	7.82 **25.66**
7.5 m **25.0 ft**	kg **lb**							*24 400 ***53,150**	*24 400 ***53,150**			*18 200 ***40,200**	*18 200 ***40,200**	8.83 **28.97**
6.0 m **20.0 ft**	kg **lb**			*39 800 ***85,250**	*39 800 ***85,250**	*30 550 ***65,950**	*30 550 ***65,950**	*25 650 ***55,700**	24 650 **53,100**	*22 750 ***49,600**	18 350 **39,400**	*18 150 ***39,900**	16 700 **37,100**	9.50 **31.17**
4.5 m **15.0 ft**	kg **lb**					*34 050 ***73,400**	33 250 **71,750**	*27 350 ***59,200**	23 650 **50,950**	*23 400 ***50,800**	17 850 **38,400**	*18 550 ***40,850**	15 350 **33,900**	9.89 **32.45**
3.0 m **10.0 ft**	kg **lb**					*36 700 ***79,300**	31 450 **67,800**	*28 800 ***62,300**	22 650 **48,850**	*23 950 ***52,000**	17 300 **37,300**	*19 550 ***42,950**	14 700 **32,350**	10.04 **32.94**
1.5 m **5.0 ft**	kg **lb**					*37 450 ***81,200**	30 350 **65,300**	*29 400 ***63,650**	21 900 **47,200**	*24 100 ***52,100**	16 900 **36,350**	*21 150 ***46,550**	14 600 **32,150**	9.96 **32.68**
0 m **0 ft**	kg **lb**			*26 100 ***60,800**	*26 100 ***60,800**	*36 200 ***78,600**	29 850 **64,200**	*28 800 ***62,300**	21 500 **46,300**	*23 250 ***50,100**	16 650 **35,850**	*20 900 ***46,100**	15 150 **33,400**	9.64 **31.63**
–1.5 m **–5.0 ft**	kg **lb**	*54,900	*54,900	*40 200 ***87,750**	*40 200 ***87,750**	*33 100 ***71,850**	29 850 **64,150**	*26 600 ***57,400**	21 400 **46,150**	*20 550	16 700	*20 250 ***44,600**	16 550 **36,500**	9.06 **29.72**
–3.0 m **–10.0 ft**	kg **lb**			*33 150 ***71,950**	*33 150 ***71,950**	*27 850 ***60,050**	*27 850 ***60,050**	*21 950 ***46,750**	21 700 ***46,750**			*18 800 ***41,250**	*18 800 ***41,250**	8.17 **26.80**
–4.5 m **–15.0 ft**	kg **lb**					*18 750 ***39,200**	*18 750 ***39,200**					*15 650 ***36,400**	*15 650 ***36,400**	6.74 **22.11**

* ISO 10567

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Lift capacity stays with ±5% for all available track shoes.

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

Work Tool Offering Guide*

Boom Options	Reach Boom 10.0 m (32'10")		General Purpose Boom 8.4 m (27'7")				Mass Boom 7.25 m (23'9")	
Stick Options	**R5.5 m (18'1") HD**	**R4.4 m (14'5") HD**	**R5.5 m (18'1") HD**	**R4.4 m (14'5") HD**	**G3.4 m (11'2") HD**	**G2.92 m (9'7") HD**	**M3.4 m (11'2")**	**M2.92 m (9'7")**
Multi Processor	MP40 CC Jaw MP40 CR Jaw MP40 S Jaw	MP40 CC Jaw MP40 CR Jaw MP40 PS Jaw MP40 S Jaw	MP40 CC Jaw MP40 CR Jaw MP40 S Jaw	MP40 CC Jaw MP40 CR Jaw MP40 PS Jaw MP40 S Jaw				
Mobile Scrap and Demolition Shear		S365C		S365C	S385C	S385C	S385C	S385C
Rippers	These work tools are available for the 390F L. Consult your Cat dealer for proper match.							
Pin Grabber Coupler								
Dedicated Quick Coupler								

*Matches are dependent on excavator configurations. Consult your Cat dealer for proper work tool match.

Bucket Specifications and Compatibility

		Width		Capacity		Weight		Fill	900 mm (35 in) Double Grouser 12.4 mt (27,337 lb) Counterweight							
									General Purpose Boom				Reach Boom		Mass Boom	
	Linkage	mm	in	m³	yd³	kg	lb	%	G2.92 m (9'7")	G3.4 m (11'2")	R4.4 m (14'5")	R5.5 m (18'1")	R4.4 m (14'5")	R5.5 m (18'1")	M2.92 m (9'7")	M3.4 m (11'2")
Without Quick Coupler																
General Duty (GD)	HB2	1350	54	3.00	4.00	3406	7,507	100			●	◉	⊖	◇		
	HB2	1650	66	3.90	5.10	3794	8,362	100			◉	○	◇	⊗		
	HB2	1900	75	4.60	6.00	4155	9,158	100			⊖	◇	⊗	⊗		
	HB2	1100	43	2.20	2.80	2856	6,295	100			●	●	●	◉		
	HB2	1350	54	2.90	3.80	3187	7,024	100			●	●	⊖	○		
	HB2	1650	66	3.70	4.90	3650	8,045	100			◉	⊖	○	⊗		
	HB2	1900	75	4.30	5.70	3923	8,646	100			⊖	X	◇	X		
	HB2	2000	79	4.60	6.00	4032	8,887	100			X	X	X	X		
	JC	2300	91	5.70	7.40	5822	12,832	100	○	◇					◉	⊖
	JC	2420	95	6.00	7.90	6004	13,233	100	○	◇					⊖	⊖
	JC	2575	101	6.50	8.50	6238	13,749	100	◇	◇					⊖	○
General Duty XL (GDXL)	HB2	2000	79	5.30	7.00	4400	9,698	100			○	◇	⊗	⊗		
	HB2	2200	87	6.00	8.00	4796	10,570	100			X	X	X	X		
Heavy Duty (HD)	JC	1750	69	4.10	5.30	4799	10,577	100	◉	◉					●	●
	JC	2090	82	5.10	6.60	5441	11,992	100	⊖	○					●	◉
	JC	2300	91	5.70	7.40	5892	12,986	100	○	◇					◉	⊖
Severe Duty (SD)	HB2	1100	43	2.30	3.00	3282	7,234	90			●	●	●	⊖		
	HB2	1350	54	3.00	4.00	3736	8,234	90			●	●	⊖	◇		
	HB2	1650	66	3.90	5.10	4163	9,175	90			◉	⊖	◇	⊗		
	HB2	1900	75	4.60	6.00	4553	10,035	90			⊖	◇	⊗	⊗		
	JC	1960	77	4.60	6.00	6229	13,729	90	⊖	○					●	●
Severe Duty (SDV)	JC	2200	87	5.40	7.00	6809	15,007	90	○	◇					◉	⊖
	JC	2350	93	5.40	7.60	7015	15,462	90	○	◇					◉	⊖
Extreme Duty (XDV)	JC	2200	87	5.00	6.50	7411	16,334	90	○	◇					◉	⊖
	JC	2350	93	5.40	7.10	7758	17,099	90	◇	◇					◉	⊖
	JC	2500	98	5.70	7.50	7993	17,617	90	◇	⊗					⊖	○
Extreme Duty Granite (XDG)	JC	2090	82	5.00	6.50	7729	17,035	90	○	◇					◉	⊖
	JC	2090	82	5.00	6.50	7826	17,249	90	○	◇					◉	⊖
Maximum load pin-on (payload + bucket)								kg	13 319	12 250	11 094	9464	8121	6881	16 797	15 454
								lb	29,355	26,998	24,451	20,858	17,898	15,166	37,020	34,061
With Quick Coupler (CW-70)																
Severe Duty (SD)	JC	2150	85	5.40	7.10	6243	13,760	90	○	◇					◉	⊖
	JC	2300	90	5.40	7.10	6556	14,449	90	◇	⊗					◉	⊖
Extreme Duty (XDV)	JC	2350	93	5.40	7.10	7881	17,370	90	⊗	⊗					⊖	○
Maximum load pin-on (payload + bucket)								kg	11 732	10 637	9879	8175	6785	5500	15 324	13 930
								lb	25,858	23,443	21,772	18,017	14,953	12,122	33,774	30,702

Maximum Material Density:

- ● 2100 kg/m³ (3,500 lb/yd³)
- ◉ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- ○ 1200 kg/m³ (2,000 lb/yd³)
- ◇ 900 kg/m³ (1,500 lb/yd³)
- ⊗ Not recommended
- X Not allowed per bucket durability guide

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with long tips.

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.

390F L Standard Equipment

Standard Equipment

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

CAB

- Parallel wiper and washer
- Mirrors
- Pressurized operator station with positive filtration
- Laminated glass front upper window and tempered other windows
- Sliding upper door window (left-hand cab door)
- Removable lower windshield with in cab storage bracket
- Openable skylight
- Interior:
  - Glass-breaking safety hammer
  - Coat hook
  - Beverage holder
  - Literature holder
  - Interior lighting
  - Radio mounting
  - Two 12V stereo speakers
  - Storage shelf suitable for lunch or toolbox
  - Power supply with 12V, two power outlets (10 amp)
  - Thumb wheel modulation joystick for use with combined auxiliary control
  - Sun screen
  - Straight travel pedal
  - Air conditioner, heater and defroster with climate control
- Windshield:
  - 70-30 split, sliding
- Seat:
  - Adjustable high-back, heated and ventilated seat with air suspension
  - Seat belt, 51 mm (2 inch)
  - Adjustable armrest
  - Height adjustable joystick consoles
  - Neutral lever (lock out) for all controls
  - Travel control pedals with removable hand levers
  - Capability of installing two additional pedals
  - Two speed travel
  - Floor mat, washable
- Monitor:
  - Clock
  - Video ready
  - Color LCD display with warning, filter/fluid change, and working hour information
  - Language display (full graphic and full color display)
  - Machine condition, error code and tool mode setting information
  - Start-up level check for engine oil, engine coolant and hydraulic oil
  - Warning, filter/fluid change and working hour information
  - Fuel consumption meter
  - Rearview camera

ELECTRICAL

- 80 amp alternator
- Circuit breaker
- Battery
- Travel alarm
- Beacon electrical outlet

ENGINE

- C18 ACERT diesel engine
- Meets Tier 4 Final emission standards
- 2300 m (7,500 ft) altitude capability with no derate
- Up to B20 biodiesel capable
- Automatic engine speed control
- Electric priming pump with switch
- Water separator in fuel line including water level sensor and indicator
- Economy and standard power modes
- Air cleaner
- Reversing cooling fan
- Steel wall between engine and pump compartment
- 4 micron fuel filter
- Quick drains, engine and hydraulic oil (QuickEvac)

HYDRAULIC SYSTEM

- Reverse swing dampening valve
- Automatic swing parking brake
- High-performance hydraulic return filter
- Regeneration circuit for boom and stick
- Capability of installing additional auxiliary circuits
- Reversing cooling fan
- Bio oil capable
- SmartBoom™

LIGHTS

- Cab and boom lights with time delay
- Exterior lights integrated into storage box

UNDERCARRIAGE/UPPERFRAME

- Grease Lubricated Track with PPR2 GLT4, resin seal
- Heavy duty track roller
- Heavy duty track motor guards
- Towing eye on base frame
- Heavy duty bottom guards on upperframe
- Counterweight with lifting eye
- Swivel guard

SAFETY AND SECURITY

- Cat one key security system
- Door locks
- Cap locks on fuel and hydraulic tanks
- Lockable external tool/storage box
- Signaling/warning horn
- Secondary engine shutoff switch
- Mirrors
- Rear window for emergency exit
- Rear vision camera
- Capability to connect a beacon
- Bolt on FOGS capability
- Service walkways
- Safety hammer for breaking cab glass

INTEGRATED TECHNOLOGIES

- Product Link
- Rearview camera

Optional Equipment

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

FRONT LINKAGE

- Reach boom (10.0 m/32'10"):
  - R5.5HB2 (18'1")
  - R4.4HB2 (14'5")
- General Purpose boom (8.4 m/27'7"):
  - R5.5HB2 (18'1")
  - R4.4HB2 (14'5")
  - G3.4JC (11'2")
  - G2.92JC (9'7")
- Mass boom (7.25 m/23'9"):
  - M3.4JC (11'2")
  - M2.9JC (9'7")
- JC-family bucket linkage (with lifting eye)
- HB2-family bucket linkage (with lifting eye)
- Cat Quick Coupler

TRACK

- 650 mm (26 in) double grouser heavy duty
- 750 mm (30 in) double grouser heavy duty
- 900 mm (35 in) double grouser heavy duty

COUNTERWEIGHT

- With removal device
- Fixed

ENGINE

- Fast fill port for fuel

GUARDS

- FOGS (Falling Object Guard System) including overhead and windshield guards
- Vandalism guards for windshield
- Track guiding guards:
  - Full length, two pieces
  - Segmented, three pieces

LIGHTS

- Boom working lights, halogen
- Boom working lights, HID

HYDRAULIC SYSTEM

- Boom and stick lowering control devices with SmartBoom
- Counterweight removal device
- HP hydraulic lines for boom and stick
- MP hydraulic lines for boom and stick
- QC hydraulic lines for boom and stick
- QC control

ELECTRICAL

- Cold weather starting package
- Electric refueling pump with auto shutoff
- Fast fill fuel system

CAT CONNECT TECHNOLOGIES

- Cat Production Measurement
- Cat Grade Control
- Cat AccuGrade

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

AEHQ8028-02
Replaces AEHQ8028-01
(AmN)

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