PC490LC-11/PC490LCi-11

hydraulic excavator

Net horsepower
359 HP (268 kW) @ 1,900 rpm

Operating weight
105,670–110,220 lbs. (47,930–49,995 kg)

Bucket capacity
1.47–4.15 yd^3 (1.12–3.17 m^3)

intelligent MACHINE CONTROL 2.0

Give your operators the power of advanced automation

Innovation

Performance

Efficiency

Command the latest technology with IMC 2.0

Empower your operators to work more efficiently than they ever could with conventional aftermarket machine guidance or manual operation. The PC490LCi-11 with Intelligent Machine Control (IMC) offers the ability to work smart, from rough digging to finish grading. Incorporating a host of advanced, proprietary machine technology, IMC puts sophisticated, productivity-enhancing automation and cutting-edge job site design at your command.

- Semi-automatic for trenching, slope work and high -production applications
- Minimize over-excavation and make every pass count

Perform finish grading using only arm input

Your operators can finish grade quickly and accurately with a bucket angle hold control that automatically holds the bucket angle to the design surface during arm operation, enabling operators to perform finish grading using only arm input.

Quick specs

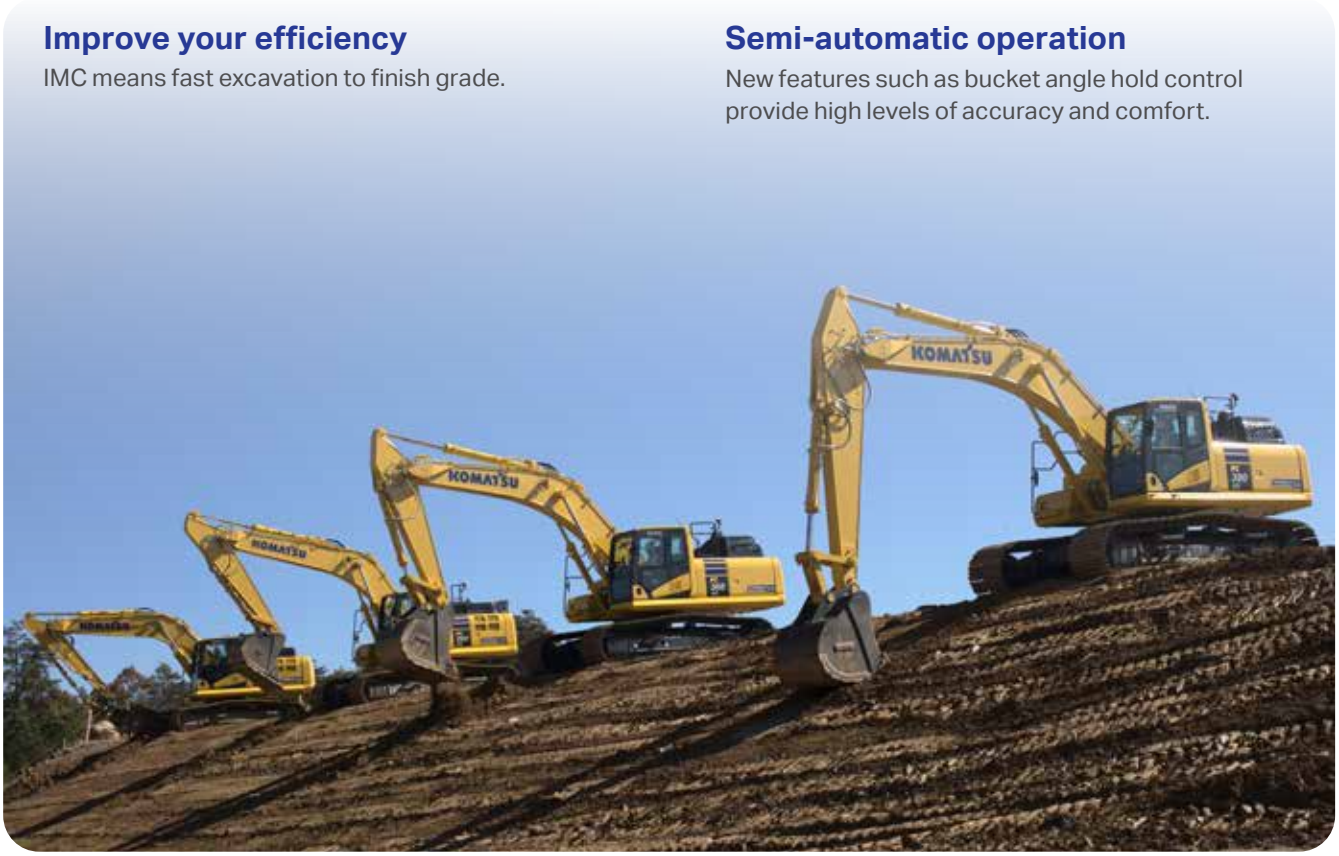
- Weight: 105,670–110,220 lbs. (47,930–49,995 kg)
- Horsepower: 359 HP @ 1,900 rpm (268 kW @ 1,900 rpm)
- Bucket capacity: 1.47–4.15 yd³ (1.12–3.17 m³)

Intelligent Machine Control (IMC)

Make every pass count

Improve your efficiency
IMC means fast excavation to finish grade.

Semi-automatic operation
New features such as bucket angle hold control provide high levels of accuracy and comfort.



Innovative
- Enable precise results with the IMC excavator's semi-automatic operation of work equipment
- Compact 10.4-in (26.4-cm) IMC monitor with increased memory capacity, processing speed and pinch-to-zoom capability

Integrated
- Operators can focus on moving material efficiently with a factory-installed 3D and guidance system designed for the machine – no more "bolt-on" components. The fully integrated package comes with stroke-sensing hydraulic cylinders, a multiple global navigation satellite system (multi-GNSS) and an inertial measurement unit (IMU) sensor
- Advance job site flexibility with multi-band UHF/915SS radio
- Fast, reliable job site connectivity with 4G LTE connectivity

Intelligent
- Operators can minimize over-excavation and move material efficiently by semi-automatically tracing the target surface.
- Excellent ease of operation and bucket positioning with intelligent facing compass, light bar and sound guidance
- Outstanding efficiency, productivity and ease of operation with bucket angle hold control

Intelligent Machine Control (IMC)

Photo may include optional equipment.

Intelligent Machine Control

Komatsu's unique sensor package includes stroke sensing hydraulic cylinders, an IMU sensor and GNSS antennas, which can help minimize over-excavation and damage to the design surface. It utilizes 3D design data loaded in the control box to accurately check its position against the target. If the bucket hits the target surface, it is semi-automatically limited to minimize over-excavation.

If the operator turns off auto mode, the machine can be operated with highly accurate, responsive machine guidance, with the machine only providing indication guidance.

Auto grade assist

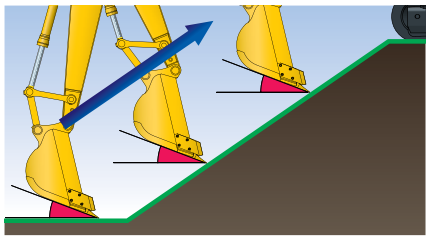
With the auto grade assist function, the operator moves the arm and the boom adjusts the bucket height automatically, tracing the target surface and minimizing digging too deep. This allows the operator to perform rough digging without worrying about the design surface and to perform fine digging by operating the arm lever only. The working range is extended by holding the lever to move the boom downward.

Auto stop control

During boom or bucket operation, the work equipment automatically stops when the bucket edge reaches the design surface, thus minimizing damage to the design surface.

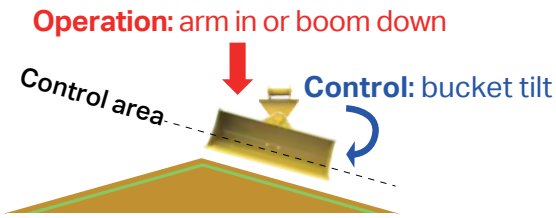
Minimum distance control

The Intelligent Machine Control excavator controls the bucket by automatically selecting the point on the bucket closest to the target surface. Should the machine not be facing a sloped surface at a right angle, it will still follow the target surface and minimize digging below it.



Bucket angle hold control

Operator sets desired bucket angle and the system automatically maintains bucket angle throughout the grading pass. Angle hold control increases ease of operation and improves final grading accuracy.



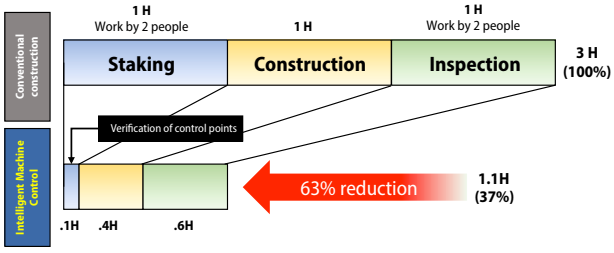
Auto tilt control

Automatically tilts bucket to design surface and returns it to horizontal to unload. Using auto tilt control with the existing minimum distance control and auto grade assist makes complex grading quicker and easier.

Improve construction efficiency

Staking, survey and final inspection (which are usually done manually), can be reduced with the intelligent Machine Control excavator by setting 3D design data on the control box. Also, use of the facing angle compass can minimize leveling work for the surface on which the machine sits. Even if the machine is inclined while working, the facing angle compass allows the operator to ensure the machine is facing perpendicular to the target surface. The Intelligent Machine Control technology allows the operator to improve work efficiency (i.e. shorter construction time) while minimizing over-excavating the target surface from rough digging to finish grading.

Comparison of construction time based on in-house test of excavation and grading slope surface*

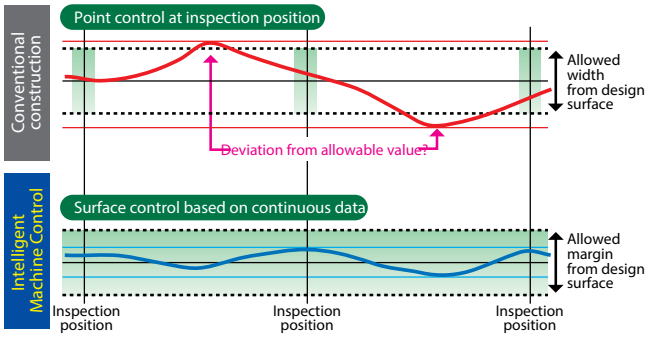


* When used by a qualified IMC operator, the Komatsu Intelligent Machine Control system increases construction efficiency (compared to conventional machine).
* The above data does not include design time or working data creation time. The above data is based on in-house construction tests, performed by Komatsu, whose conditions may differ from actual construction.

Improve work accuracy

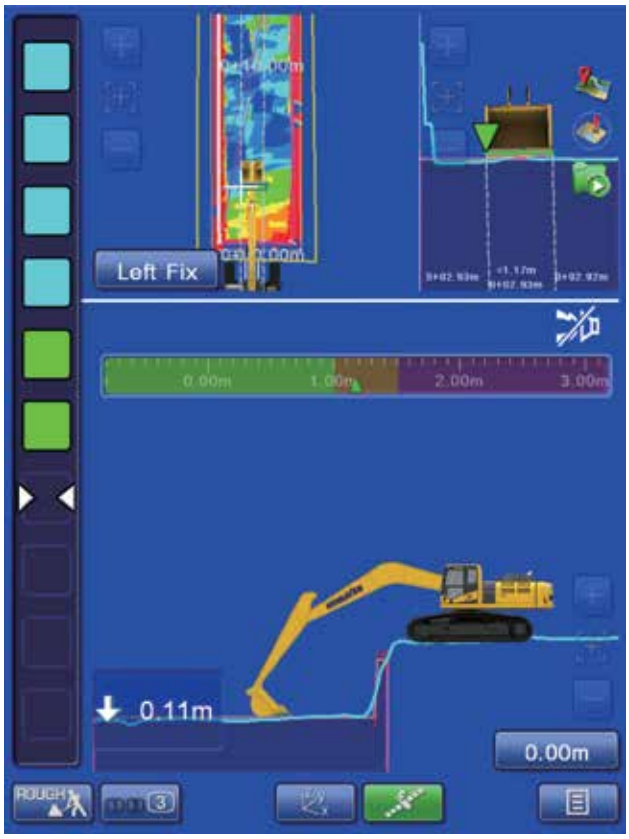
The bucket edge/tip position is instantly displayed on the control box, eliminating the wait time for display on the monitor during construction. The large and easy-to-view control box displays information clearly, aiding in high work accuracy. With manual operation and conventional machine guidance, finish grade quality and excavation accuracy depend heavily on the skill of the operator. With the Intelligent Machine Control excavator, the bucket is automatically limited to follow the target grade without over-excavating.

Relationship between finished surface and allowable value



As-built surface mapping

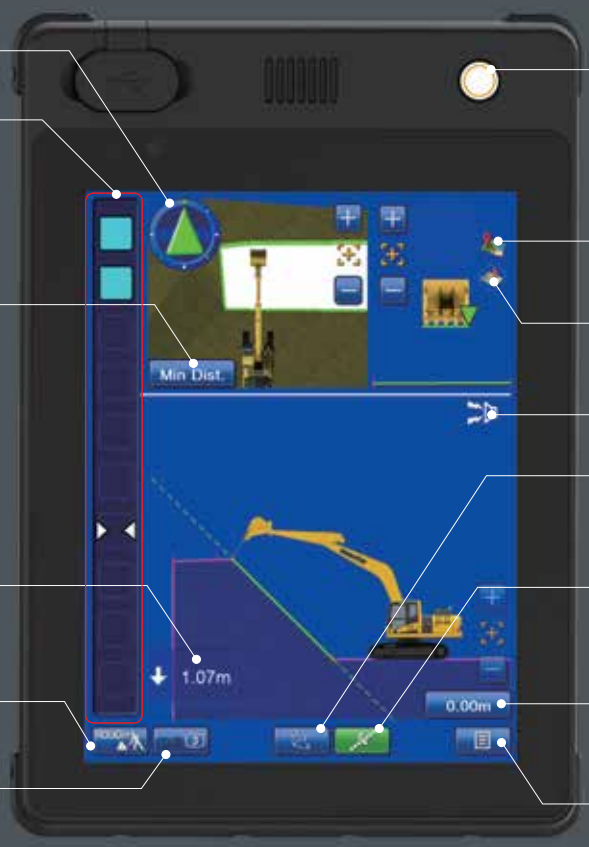
Operator can display and check the as-built status and find where to cut and fill.



Intelligent Machine Control (IMC)

Control box

The monitor of the Komatsu Intelligent Machine Control (control box) uses a compact 10.4-in (26.4-cm) screen for visibility and ease of use. The simple screen layout displays the necessary information in an easily understood fashion. Touch-screen icon interface instead of multi-step menu simplifies operation.



Facing angle compass

Light bar

Bucket edge position selection button
Used to select the bucket edge position (left/middle/right/minimum distance) to determine the distance from the design surface

Distance from design surface

Mode selection button
Driving, rough digging and fine digging modes

Screen selection button
Use to change the screen layout

Auto/manual switch

Pop-up map button
Displays a wide-area map

Edge position recording button

Sound guidance on/off

Bucket edge position check button

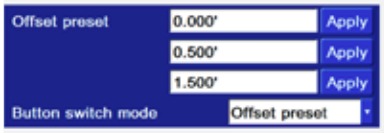
GNSS signal reception status check button
Used to check signal reception from the GNSS

Design surface offset
The design surface can be offset in the vertical direction

Main menu button
For various settings

Preset elevation offset quick button

Pre-determined offsets can be stored in the monitor to allow an operator to easily switch between preset grades.



Quick bucket swap button

Allows users to quickly swap between various buckets without having to enter main menu. This lessens the time a user takes to change out a bucket on the monitor.

Machine navigation

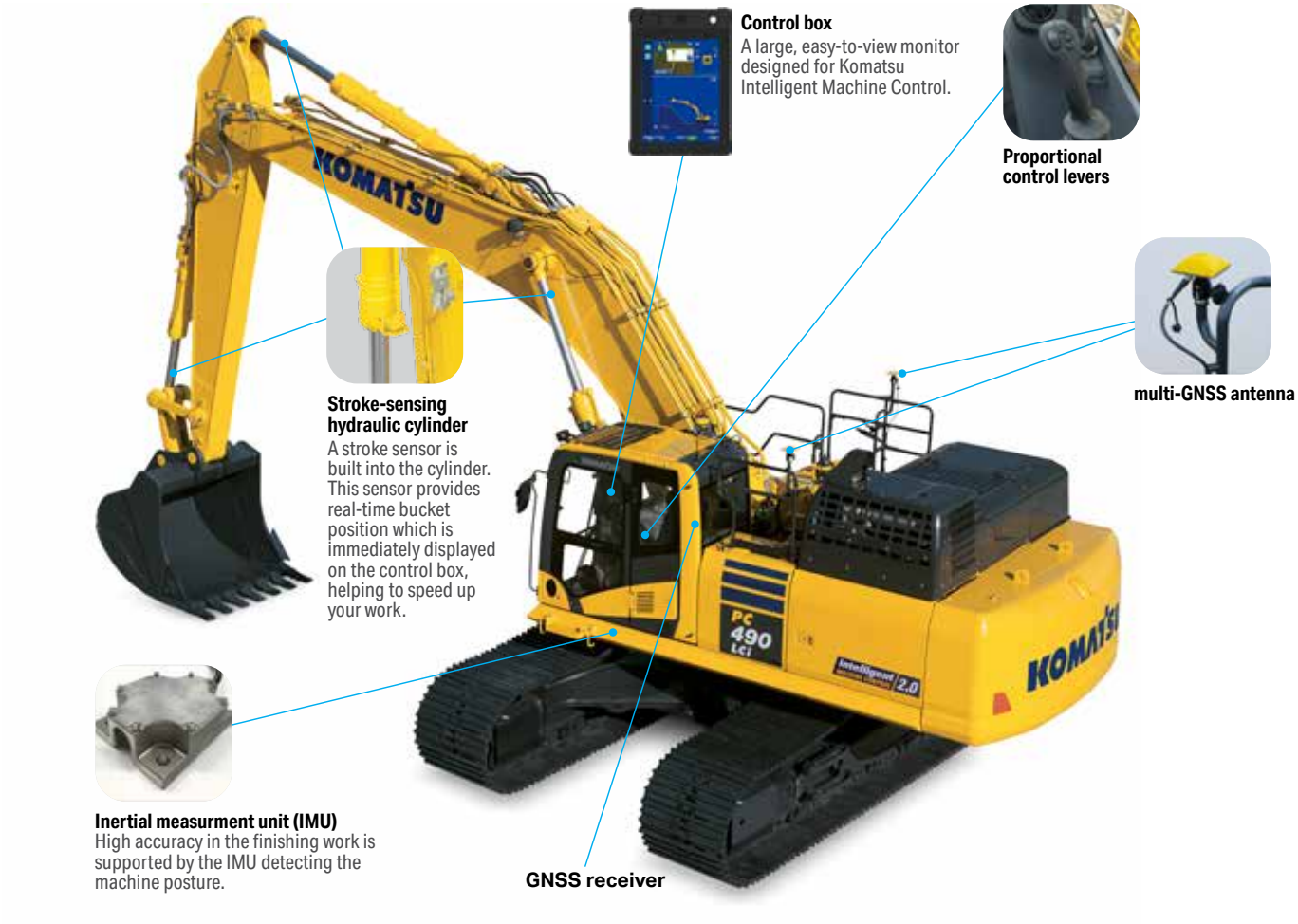
Facing angle compass

The orientation and color of the facing angle compass's arrow shows the operator the facing angle of the bucket edge relative to the target surface. This allows the bucket edge to be accurately positioned square with the target surface, which is useful when finishing slopes.

Enhanced operability of the machine control

Semi-auto/manual mode switching and design surface offset function can be operated with switches on the control levers.

Factory-installed Komatsu Intelligent Machine Control components



Smart Construction Remote

Customers can quickly send design files to intelligent machines and provide support to operators

Users can log in to Smart Construction Remote to locate machines by job site to upload or download design files at any time.

View the machine monitor to troubleshoot or add new files in the machine without the time requirements of traditional methods.

Capable of connecting to mixed-fleet customers.

View or navigate machine monitor live with operator.

Working smarter in every way

Benefits of IMC 2.0

Save money

Up to 30% savings

Frees GPS dozer from need to achieve final grade so it can work elsewhere on the site.

Save time

Up to 63% improvement

Reduce staking, grading and inspection with 3D design data and semi-automatic grading.

Less time grade checking

Up to 56% improvement

Monitor performance and stay on grade from the cab: operators spend time working, not grade checking.

Improve accuracy

Up to 33% improvement

Continuously monitor grade and semi-automatics to dig precisely to grade.

Reduce base aggregate

Up to 47% reduction

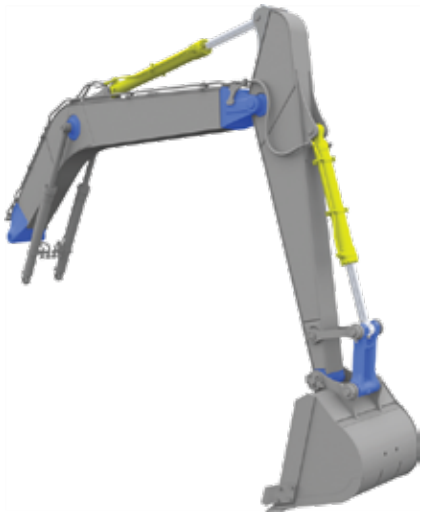
Greatly reduce over-digging and the amount of costly base aggregate needed for applications like utilities.

**All savings, improvements, and reductions are compared to traditional grading methods.*

Performance features

High-rigidity work equipment

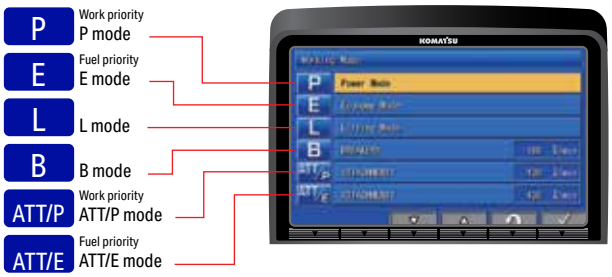
Designed for long-term durability and reliability, with booms and arms constructed with thick plates of high tensile-strength steel. In addition, these structures are designed with large cross-sectional areas and large one-piece castings in the boom foot, the boom tip and the arm tip. A standard HD book design provides strength and reliability.



Working mode selection

The PC390LC/LCi-11 excavator is equipped with six working modes (P, E, L, B, ATT/P and ATT/E). Each mode is designed to match engine speed, pump flow and system pressure to the application. The PC390LC/LCi-11 features an attachment mode (ATT/E) that allows operators to run attachments while in economy mode.

Working mode	Application	Advantage
P	Power mode	• Maximum production/power • Fast cycle times
E	Economy mode	• Good cycle times • Exceptional fuel economy
L	Lifting mode	• Increases hydraulic pressure
B	Breaker mode	• Optimum engine rpm, hydraulic flow for breaking
ATT/P	Attachment Power mode	• Optimum engine rpm, hydraulic flow, 2-way • Power mode
ATT/E	Attachment economy mode	• Optimum engine rpm, hydraulic flow, 2-way • Economy mode



Increase work efficiency

Functional digging force can be increased with use of the one-touch Power Max function (up to 8.5 seconds of operation).

Maximum arm crowd force (ISO)

20.4 t (200 kN) 21.8 t (214 kN) (with Power Max) 7% UP

Maximum bucket digging force (ISO)

26.1 t (256 kN) 28.0 t (275 kN) (with Power Max) 7% UP

Measured with Power Max function, 125 in (3,185 mm) arm and ISO rating

Performance features

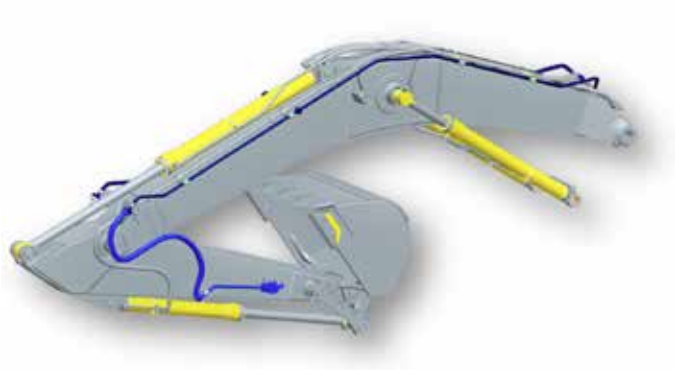
Komatsu-integrated attachment control (optional)

Factory-integrated auxiliary hydraulic attachment control with programmable pressure and flow settings for up to 15 different tools. Settings can be easily changed from the machine monitor, optimizing attachment control and performance. Proportional joysticks help expand versatility by giving the operator precise hydraulic attachment control.

*Not available on PC490LC-11

+1 Attachment piping (optional)

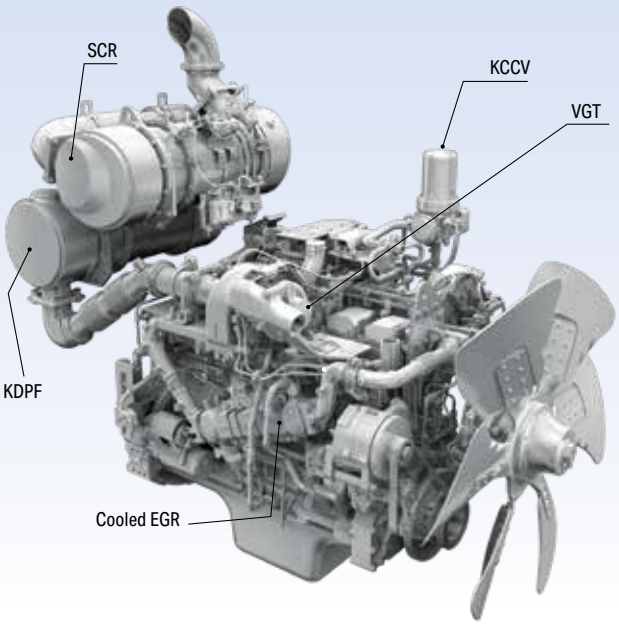
Factory-engineered auxiliary attachment circuit piping is designed and sized to work efficiently with the excavator's main hydraulic system. Constructed of large-diameter steel tubing with four bolt flange connections and robust mounting points, the auxiliary hydraulic piping is designed for durable, reliable use.



Komatsu innovative engine technology

Latest Tier 4 Final engine

The Komatsu SAAD125E-7 engine is EPA Tier 4 Final emissions certified and provides exceptional performance and efficiency. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces nitrogenoxides (NOx) by more than 80% when compared to Tier 4 interim levels. Through the in-house development and prodution of engines, electronics and hydraulic components, Komatsu has achieved great advancements in technology, providing high levels of performance and efficiency in virtually all applications.



Working environment

PC210LCi-11 shown.

Comfortable working space

Wide, spacious cabin

The cabin includes a seat with reclining backrests and a pull-up lever to easily adjust seat height and tilt angle. You can set the appropriate operational posture of the armrest together with the console. Reclining the seat further enables you to place it into the fully flat state with the headrest attached.

Armrest with simple height adjustment function

The addition of a knob and a plunger to the armrest permits the height of the armrest to be easily adjusted without the use of tools.

Low vibration with cab damper mounting

Automatic climate control

Pressurized cab

Auxiliary input jack

Connecting a regular audio device to the auxiliary jack allows the operator to hear the sound from the speakers installed in the cab.

Standard equipment

Sliding window glass (left side)

ISO/BH pattern change valve

Remote intermittent wiper with windshield washer

Easy-to-access AC controls

Opening and closing skylight

Magazine box and cup holder

Defroster (conforms to the ISO standard)

One-touch storable front window lower glass

General features

ROPS cab structure

ISO 12117-2

The machine is equipped with a ROPS cab that conforms to ISO 12117-2 for excavators as standard equipment. It also satisfies the requiremets for level 1 Operator Protective Guard (OPG) and top guard (ISO 10262).

Rearview monitoring system

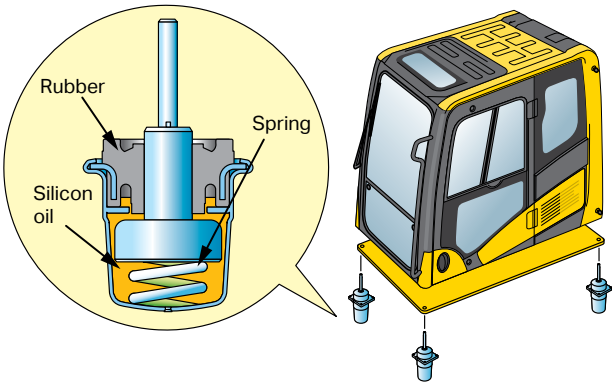
A rearview monitoring system display has a rearview camera image that is continuously displayed together with the gauges and important vehicle information. This enables the operator to carry out work while checking the surrounding area.

Rearview camera

Rearview image on monitor

Low vibration with viscous cab mounts

The PC390LC/LCi-11 uses viscous mounts for the cab that incorporate a longer stroke and the addition of a spring. The cab damper mounting combined with a high-rigidity deck helps reduce vibration at the operator's seat.



General features

Secondary engine shutdown switch at base of seat to shutdown the engine

Left and right side handrails

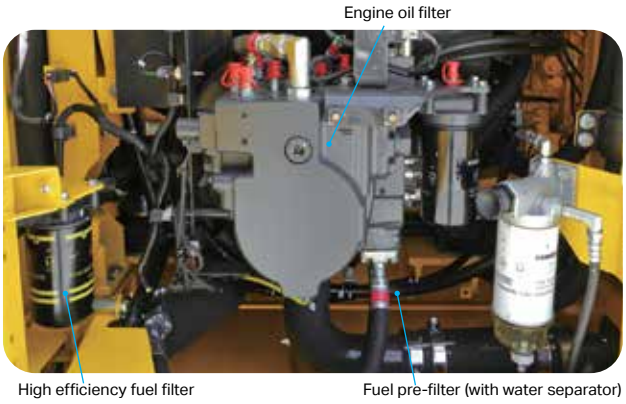
Seat belt caution indicator

- Lock lever
- Seat belt retractable
- Tempered and tinted glass
- Large mirrors
- Slip-resistant plates
- Thermal and fan guards
- Pump/engine room partition
- Travel alarm
- Large cab entrance step
- Large, easy-open hood for engine and aftertreatment access

Maintenance features

Centralized engine check points

Locations of the engine oil check and filters are integrated into one side to allow easy maintenance and service.



Tie-off points standard (ISO 14567)

When working in elevated positions on the boom and track frame tie-off points provide anchors for technician harness lanyards.

Easy cleaning of cooling unit

Fuel pre-filter with water separator

High-efficiency primary fuel filter

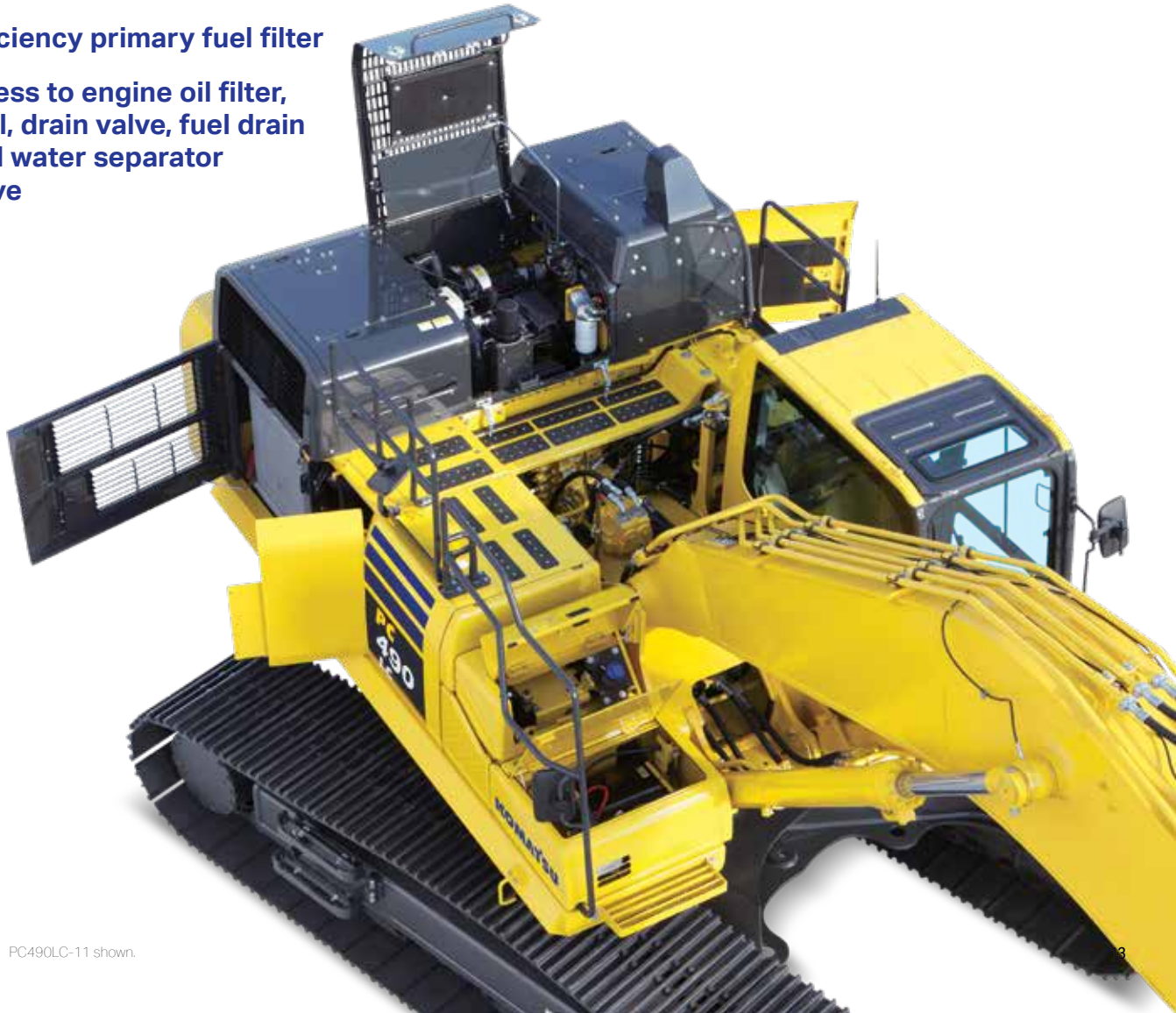
Easy access to engine oil filter, engine oil, drain valve, fuel drain valve and water separator drain valve

Easy-to-access air conditioner filter

Washable cab floormat

Sloping track frame

Utility space



PC490LC-11 shown.

Maintenance features

Long-life oils, filters

High-performance filters are used in the hydraulic circuit and engine. By increasing the oil and filter replacement intervals, maintenance costs can be significantly reduced.

Hydraulic oil filter
(ecology white element)

Engine oil and engine oil filter	every 500 hours
Hydraulic oil	every 5,000 hours
Hydraulic oil filter	every 1,000 hours

Large-capacity air cleaner

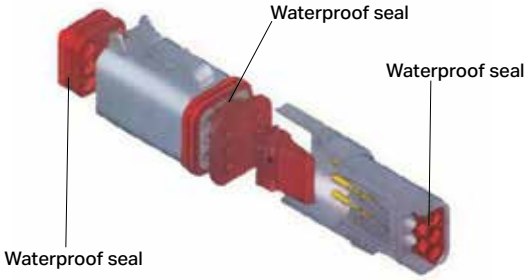
The larger air cleaner can extend air cleaner life during long-term operation, helping prevent early clogging and resulting power loss. A radial seal design helps improve reliability.

Diesel exhaust fluid (DEF) tank

A large tank volume extends operating time before refilling and is installed on the right front platform for easy access. DEF tank and pump are separated for improved service access.

DT-type connectors

Sealed DT-type electrical connectors provide reliability, water and dust resistance.



Maintenance information

"Maintenance time caution lamp" display

When the remaining time to maintenance becomes less than 30 hours*, a maintenance time monitor appears. Pressing the F6 key switches the monitor to the maintenance screen.

* The setting can be changed within the range between 10 and 200 hours.

Maintenance screen

Manual stational regeneration

Under most conditions, active regeneration will occur automatically with no effect on machine operation. In case the operator needs to disable active regeneration or initiate a manual stationary regeneration, this can be easily accomplished through the monitor panel. A soot level indicator is displayed to show how much soot is trapped in the KDPF.

Soot level indicator

Aftertreatment device regeneration screen

Supports the DEF level and refill timing

The DEF level gauge is displayed continuously on the right side of the monitor screen. In addition, when DEF level is low, DEF low-level guidance messages appear in pop-up displays to inform the operator in real time.

DEF level gauge

DEF low-level guidance

Komatsu helps you bring it all together

Get the most out of your fleet on My Komatsu

We've designed a portal that makes it easy to collect, visualize and monitor data for both Komatsu machines and other OEM machines. My Komatsu also gives you one easy source for accessing manuals and purchasing parts for your machines.

- Quickly collect, view and manage intuitive data displays in one location
- Help keep costs under control
- Benchmark machine performance and track fuel consumption
- Monitor for theft and unauthorized use
- Receive timely maintenance alerts

My Komatsu, our comprehensive portal, analyzes telematics data from your on-machine technology — Komtrax and Komtrax Plus, or from other OEMs — and displays it on easy-to-read dashboards. Now you can get the powerful analytics you need to manage your costs and enhance your fleet's efficiency without a complicated process or expensive third-party solutions.

Data
Telematics data is generated by on-machine technology.

Storage
Telematics data flows into data storage. ISO 15143-3 (AEMP 2.0) facilitates the extraction and raw data to your choice of databases.

Connection
Choose how you want to connect and view your data. Go to multiple systems, send to a third party, or easily connect it all through My Komatsu.

Analytics
My Komatsu connects telematics data from Komatsu and non-Komatsu equipment and creates powerful analytics dashboard views.

mykomatsu.komatsu

Connect your machines to Smart Construction to optimize your job sites

Your projects depend on robust data that is easily shared, replicated, updated and — most important of all — correct.

Take a step toward a digital transformation of your job sites with Komatsu's suite of Smart Construction solutions, where advanced automation and integrated technologies intersect to help you:

- Track costs of labor, machines and materials
- Receive real-time insights straight from the field
- Enhance workflow with fully integrated data
- Visualize your data for actionable results
- Quickly map your job site
- Attract and retain talent

Not sure where to begin? Komatsu-certified solution experts are available on the phone, online or at your job site to help you navigate and thrive along your digitalization journey.

komatsu.com/smart-construction

Komatsu helps you bring it all together

Komatsu maintenance and repair programs

Simplify the complexities of machine owning and operating costs and enhance the value of your equipment with Komatsu's tiered maintenance and repair offerings. Manage your active coverage programs through the My Komatsu customer interface and take advantage of attractive financing options.

- Solutions that fit your needs and ease your mind
- Fixed maintenance and repair costs for the life of the contract
- National coverage

Komatsu Care Complimentary

Complimentary maintenance

Our complimentary scheduled maintenance program for the first three years or 2,000 hours, whichever occurs first.

Komatsu Care Plus

Extended maintenance

A continuation of the Komatsu Care program. Along with regularly scheduled maintenance and national distributor coverage, you get a variety of added benefits.

Komatsu Care Plus II

Extended maintenance and repair

Everything in the Komatsu Care Plus program bundled with comprehensive repair coverage for qualifying repairs.

Komatsu Care Plus III

Extended maintenance, repair and consumables

A comprehensive program that simplifies your equipment's total cost of ownership with a fixed cost per hour for qualifying repairs and replacements.

Komatsu Care Advantage Warranty

Extended warranty

Protect your equipment in the event a covered component fails due to a defect in material or workmanship. Repairs are performed by Komatsu-trained experts using Komatsu genuine parts.

komatsu.com/maintenance-repair

Komatsu Financial

Financial services built for your business success.

komatsu.com/financing

Komatsu Genuine Parts

Engineered to help extend the life of your Komatsu machine. Now available on the My Komatsu parts store.

komatsu.com/parts

Komatsu training

Comprehensive training support — virtually, at our facility or where most convenient.

komatsu.com/training

General specification

Engine*

Model	Komatsu SAA6D125E-7*
Type	Water-cooled, 4-cycle, direct injection
Aspiration	Variable Geometry Turbocharger with air-to-air aftercooled EGR
Number of cylinders	6
Bore x stroke	125 mm x 150 mm 4.92"x 5.91"
Piston displacement	11.04 L 674 in³
Horsepower	
SAE J1995	Gross 270 kW 362 HP
ISO 9249 / SAE J1349	Net 268 kW 359 HP
	Rated rpm 1,900
Fan drive method for radiator cooling	Hydraulic
Governor	All-speed control, electronic

*EPA Tier 4 Final emissions certified

Hydraulics

Type	HydrauMind (Hydraulic Mechanical Intelligence) system, closed-center system with load sensing valve and pressure compensated valves
Number of selectable working modes	6
Main pump	
Pumps for	Boom, arm, bucket, swing, and travel circuits
Type	Variable displacement axial piston type
Maximum flow	780 L/min 206 gal/min
Hydraulic motors	
Travel	2 x axial piston motors with parking brake
Swing	1 x axial piston motor with swing holding brake
Relief valve setting	
Implement circuits	37.3 MPa 380 kg/cm² 5,400 psi
Travel circuit	37.3 MPa 380 kg/cm² 5,400 psi
Swing circuit	27.9 MPa 285 kg/cm² 4,050 psi
Pilot circuit	3.2 MPa 33 kg/cm² 470 psi
Hydraulic cylinders (Number of cylinders – bore x stroke x rod diameter)	
Boom	2–160 mm x 1570 mm x 110 mm 6.3" x 61.8" x 4.3"
Arm	1–185 mm x 1820 mm x 120 mm 7.3" x 71.7" x 4.7"
Bucket	1–160 mm x 1270 mm x 110 mm 6.3" x 50" x 4.3"

Drives and brakes

Steering control	Two levers with pedals
Drive method	Hydrostatic
Maximum drawbar pull	329 kN 33,510 kg 73,880 lbf.
Gradeability	70%, 35°
Maximum travel speed (auto shift)	
High 5.5 km/h 3.4 mph	Mid 4.2 km/h 2.6 mph Low 3.0 km/h 1.9 mph
Service brake	Hydraulic lock
Parking brake	Mechanical disc

Swing system

Drive method	Hydraulic motor
Swing reduction	Planetary gear
Swing circle lubrication	Grease-bathed
Service brake	Hydraulic lock
Holding brake/Swing lock	Mechanical disc brake
Swing speed	9.1 rpm
Swing torque	13,414 kg•m 97,024 ft. lbs.

Undercarriage

Center frame	X-frame
Track frame	Box-section
Track type	Sealed
Track adjuster	Hydraulic
Number of shoes (each side)	49
Number of carrier rollers (each side)	2
Number of track rollers (each side)	8

Coolant and lubricant capacity (refilling)

Fuel tank	650 L	172 U.S. gal
Radiator	47 L	12.4 U.S. gal
Engine	37 L	9.77 U.S. gal
Final drive (each side)	11 L	2.9 U.S. gal
Swing drive	20 L	5.3 U.S. gal
Hydraulic tank	248 L	65.5 U.S. gal
Diesel Exhaust Fluid (DEF) tank	39 L	10.3 U.S. gal

Sound performance

Exterior – ISO 6395	105 dB(A)
Interior – ISO 6396	76 dB(A)

Operating weight (approximate)*

Operating weight includes 7,060 mm 23'2" one-piece HD boom, 3,380 mm 11'1" arm, SAE heaped 2.25 m³ 2.94 yd³ bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

Triple-grouser shoes	Fixed gauge		Variable gauge	
	Operating weight	Ground pressure ISO 16754	Operating weight	Ground pressure ISO 16754
700 mm 28"	47,930 kg 105,670 lbs.	0.73 kg/cm² 10.33 psi	49,005 kg 108,040 lbs.	0.74 kg/cm² 10.57 psi
800 mm 31.5"	48,430 kg 106,770 lbs.	0.64 kg/cm² 9.14 psi	49,505 kg 109,140 lbs.	0.66 kg/cm² 9.34 psi
900 mm 35.5"	48,920 kg 107,850 lbs.	0.58 kg/cm² 8.2 psi	49,995 kg 110, 220 lbs.	0.59 kg/cm² 8.38 psi

Working forces

	Arm length	3,380 mm 11'1"	4,000 mm 13'1"
SAE rating	Bucket digging force	275 kN 28,000 kg / 61,730 lbs.	275 kN 28,000 kg / 44,970 lbs.
SAE rating	Arm crowd force	214 kN 21,800 kg / 48,060 lbs.	190 kN 19,400 kg / 42,770 lbs.
ISO rating	Bucket digging force	239 kN 24,400 kg / 53,790 lbs.	239 kN 24,400 kg / 53,790 lbs.
ISO rating	Arm crowd force	205 kN 20,900 kg / 46,080 lbs.	184 kN 18,800 kg / 41,450 lbs.

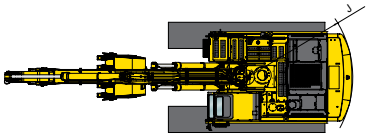
Component weights	
Arm including bucket cylinder and linkage	
3,380 mm 11'1" arm assembly	2,141 kg 4,720 lbs.
4,000 mm 13'1" arm assembly	2,408 kg 5,309 lbs.
4,800 mm 15'9" arm assembly	2,645 kg 5,831 lbs.
One piece HD boom including arm cylinder	
7,060 mm 23'2" boom assembly	4,017 kg 8,856 lbs.
Boom cylinders x 2	366 kg 807 lbs.
Counterweight (standard)	9,573 kg 21,105 lbs.
Counterweight (for removal system)	8,700 kg 19,180 lbs.
2.25 m³ 2.94 yd³ bucket - 54" width	1,867 kg 4,117 lbs.

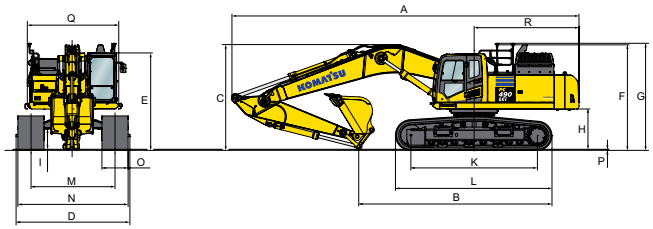
General specification

Dimensions

	Arm Length			3,380 mm	11'1"	4,000 mm 13'1"
A	Overall length			11,930 mm	39'2"	11,950 mm 39'2"
B	Length on ground (transport)			6,660 mm	21'10"	6,330 mm 20'9"
C	Overall height (to top of boom)*			3,635 mm	11'11"	3,885 mm 12'9"
D	Overall width			3,765 mm	12'4"	
E	Overall height (to top of cab)*			3,360 mm	11'0"	
F	Overall height (to top of handrail)*			3,630 mm	11'11"	
G	Overall height (to top of GNSS antenna)*			3,705 mm	12'2"	
H	Ground clearance, counterweight			1,385 mm	4'7"	
I	Ground clearance, minimum			568 mm	1'10"	
J	Tail swing radius			3,645 mm	12'0"	
K	Track length on ground			4,350 mm	14'3"	
L	Track length			5,385 mm	17'8"	
M	Track gauge			2,740 mm	9'0"	
N	Width of crawler	700 mm	28" shoe	3,440 mm	11'2"	
		800 mm	31.5" shoe	3,540 mm	11'6"	
		900 mm	35.5" shoe	3,640 mm	11'11"	
O	Shoe width			900 mm	35.5"	
P	Grouser height			37 mm	1.5"	
Q	Machine upper width**			3,145 mm	10'4"	
R	Distance, swing center to rear end			3,605 mm	11'10"	

*Including grouser height **Including handrail





Backhoe bucket, arm and boom combination

Bucket type	Bucket Capacity		Teeth	Width		Weight		Tip radius		7,060 mm (23'2") Boom 3.4 m (11'1")	4.0 m (13'1")
Komatsu TL	1.12 m³	1.47 yd³	3	762 mm	30"	1,287 kg	2,838 lbs.	1,826 mm	72"	●	●
	1.35 m³	1.76 yd³	4	914 mm	36"	1,441 kg	3,176 lbs.	1,826 mm	72"	●	●
	1.64 m³	2.15 yd³	4	1,067 mm	42"	1,561 kg	3,442 lbs.	1,826 mm	72"	●	●
	1.94 m³	2.54 yd³	5	1,219 mm	48"	1,714 kg	3,779 lbs.	1,826 mm	72"	●	○
	2.25 m³	2.94 yd³	6	1,372 mm	54"	1,867 kg	4,117 lbs.	1,826 mm	72"	●	○
	2.55 m³	3.34 yd³	6	1,524 mm	60"	1,988 kg	4,382 lbs.	1,826 mm	72"	○	□
	2.87 m³	3.75 yd³	7	1,676 mm	66"	2,141 kg	4,720 lbs.	1,826 mm	72"	□	⊙
	3.17 m³	4.15 yd³	7	1,829 mm	72"	2,261 kg	4,985 lbs.	1,826 mm	72"	⊙	⊙
Komatsu HP	1.12 m³	1.47 yd³	3	762 mm	30"	1,508 kg	3,324 lbs.	1,826 mm	72"	●	●
	1.35 m³	1.76 yd³	4	914 mm	36"	1,663 kg	3,667 lbs.	1,826 mm	72"	●	●
	1.64 m³	2.15 yd³	4	1,067 mm	42"	1,835 kg	4,046 lbs.	1,826 mm	72"	●	●
	1.94 m³	2.54 yd³	5	1,219 mm	48"	1,978 kg	4,360 lbs.	1,826 mm	72"	●	●
	2.25 m³	2.94 yd³	6	1,372 mm	54"	2,151 kg	4,741 lbs.	1,826 mm	72"	○	□
	2.55 m³	3.34 yd³	6	1,524 mm	60"	2,293 kg	5,056 lbs.	1,826 mm	72"	□	□
	2.87 m³	3.75 yd³	7	1,676 mm	66"	2,466 kg	5,437 lbs.	1,826 mm	72"	⊙	⊙
	3.17 m³	4.15 yd³	7	1,829 mm	72"	2,609 kg	5,752 lbs.	1,826 mm	72"	⊙	X
Komatsu HPS	1.12 m³	1.47 yd³	3	762 mm	30"	1,632 kg	3,597 lbs.	1,826 mm	72"	●	●
	1.35 m³	1.76 yd³	4	914 mm	36"	1,806 kg	3,981 lbs.	1,826 mm	72"	●	●
	1.64 m³	2.15 yd³	4	1,067 mm	42"	2,003 kg	4,416 lbs.	1,826 mm	72"	●	●
	1.94 m³	2.54 yd³	5	1,219 mm	48"	2,172 kg	4,789 lbs.	1,826 mm	72"	●	○
	2.25 m³	2.94 yd³	6	1,372 mm	54"	2,371 kg	5,228 lbs.	1,826 mm	72"	○	□
	2.55 m³	3.34 yd³	6	1,524 mm	60"	2,540 kg	5,600 lbs.	1,826 mm	72"	□	⊙
	2.87 m³	3.75 yd³	7	1,676 mm	66"	2,739 kg	6,039 lbs.	1,826 mm	72"	⊙	X
Komatsu HPX	1.12 m³	1.47 yd³	3	762 mm	30"	1,759 kg	3,877 lbs.	1,826 mm	72"	●	●
	1.35 m³	1.76 yd³	4	914 mm	36"	1,933 kg	4,261 lbs.	1,826 mm	72"	●	●
	1.64 m³	2.15 yd³	4	1,067 mm	42"	2,130 kg	4,696 lbs.	1,826 mm	72"	●	●
	1.94 m³	2.54 yd³	5	1,219 mm	48"	2,299 kg	5,069 lbs.	1,826 mm	72"	●	○
	2.25 m³	2.94 yd³	6	1,372 mm	54"	2,498 kg	5,508 lbs.	1,826 mm	72"	○	□
	2.55 m³	3.34 yd³	6	1,524 mm	60"	2,667 kg	5,880 lbs.	1,826 mm	72"	□	⊙
	2.87 m³	3.75 yd³	7	1,676 mm	66"	2,866 kg	6,319 lbs.	1,826 mm	72"	⊙	X

For best semi-automatic machine control performance, observe maximum attachment weights:

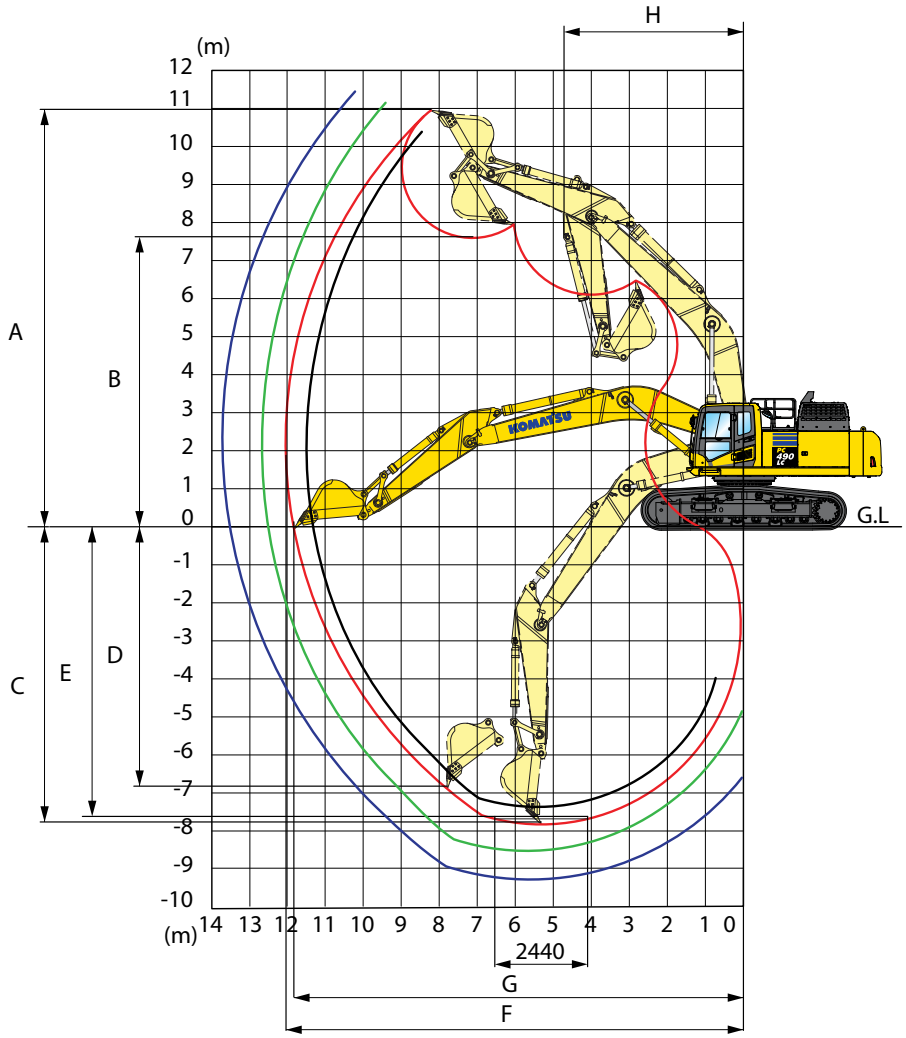
- 3,350 kg 7,385 lbs. maximum for 3,380 mm 11' 1" standard arm assembly
- 3,200 kg 7,054 lbs. maximum for 4,000 mm 13' 1" standard arm assembly

Exceeding recommended attachment weights may negatively impact performance and accuracy of semi-automatic function.

● - Used with material weights up to 3,500 lbs./yd³ - Quarry/rock/high abrasion applications
□ - Used with material weights up to 2,500 lbs./yd³ – General construction
○ - Used with material weights up to 3,000 lbs./yd³ – Tough digging applications
⊙ - Used with material weights up to 2,000 lbs./yd³ – Light materials applications
X - Not useable

Komatsu recommends the use of buckets sized to machine capacity. Buckets listed in the table above are sized appropriate to the specified material densities. Buckets exceeding recommended sizes may result in reduced performance.

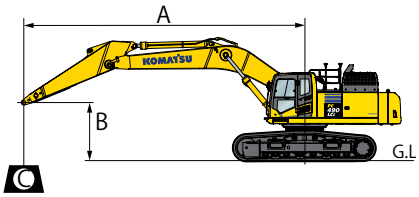
Working range



	Arm Length	2900 mm	9'6"	3380 mm	11'1"	3380 mm	11'1"	4000 mm	13'1"	4800 mm	15'9"
A	Max. digging height	10,350 mm	34'0"	10,980 mm	36'0"	10,547 mm	34'7"	11,090 mm	36'5"	11,550 mm	37'11"
B	Max. dumping height	7,145 mm	23'5"	7,630 mm	25'0"	7,306 mm	24'0"	7,780 mm	25'6"	8,210 mm	26'11"
C	Max. digging depth	7,280 mm	23'11"	7,755 mm	25'5"	7,748 mm	25'5"	8,380 mm	27'6"	9,190 mm	30'2"
D	Max. vertical wall digging depth	5,635 mm	18'6"	6,805 mm	22'4"	6,996 mm	22'11"	7,220 mm	23'8"	8,085 mm	26'6"
E	Max. digging depth for 8' level bottom	7,090 mm	23'3"	7,615 mm	25'0"	7,590 mm	24'11"	8,250 mm	27'0"	9,080 mm	29'10"
F	Max. digging reach	11,445 mm	37'7"	12,030 mm	39'6"	11,876 mm	39'0"	12,565 mm	41'3"	13,365 mm	43'10"
G	Max. digging reach at ground level	11,230 mm	36'10"	11,810 mm	38'9"	11,654 mm	38'3"	12,365 mm	40'7"	13,180 mm	43'3"
H	Min. swing radius	4,810 mm	15'9"	4,735 mm	15'6"	4,871 mm	16'0"	4,800 mm	15'9"	4,885 mm	16'0"
SAE rating	Bucket digging force at power max	239 kN 24,400 kg / 53,790 lbs.		239 kN 24,400 kg / 53,790 lbs.		238 kN 24,300 kg / 53,570 lbs.		239 kN 24,400 kg / 53,790 lbs.		239 kN 24,400 kg / 53,790 lbs.	
	Arm crowd force at power max	245 kN 25,000 kg / 55,120 lbs.		205 kN 20,900 kg / 46,080 lbs.		223 kN 22,700 kg / 50,040 lbs.		184 kN 18,800 kg / 41,450 lbs.		162 kN 16,500 kg / 36,400 lbs.	
ISO rating	Bucket digging force at power max	275 kN 28,000 kg / 61,730 lbs.		275 kN 28,000 kg / 61,730 lbs.		274 kN 27,900 kg / 61,510 lbs.		275 kN 28,000 kg / 61,730 lbs.		275 kN 28,000 kg / 61,730 lbs.	
	Arm crowd force at power max	257 kN 26,200 kg / 57,760 lbs.		214 kN 21,800 kg / 48,060 lbs.		233 kN 23,800 kg / 52,470 lbs.		190 kN 19,400 kg / 42,770 lbs.		167 kN 17,000 kg / 37,500 lbs.	

General specification

Lifting capacity

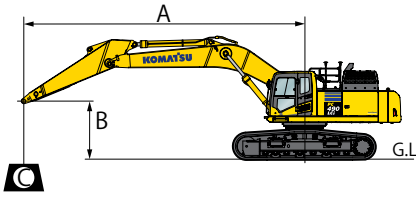


A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
Rating at maximum reach

Conditions:
- Boom length: 7,060 mm 23' 2"
- Bucket: None
- Undercarriage: Fixed gauge
- Lifting mode: On

Arm: 2,900 mm 9'6" — Shoes: 900 mm 35.5" triple grouser — Unit: kg lbs.

A / B	Max	3.0 m 10' Cf	3.0 m 10' Cs	4.6 m 15' Cf	4.6 m 15' Cs	6.1 m 20' Cf	6.1 m 20' Cs	7.6 m 25' Cf	7.6 m 25' Cs	9.1 m 30' Cf	9.1 m 30' Cs	Max Cf	Max Cs
7.6 m	7.9 m							* 12340	11260			* 12260	10550
25'	26'							* 27200	24800			* 27000	23200
6.1 m	8.8 m					* 14370	* 14370	* 12730	11100			* 12030	8960
20'	29'					* 31600	* 31600	* 28000	24400			* 26500	19700
4.6 m	9.3 m			* 21420	* 21420	* 16160	14750	* 13570	10800	* 12090	8330	* 11980	8110
15'	31'			* 47200	* 47200	* 35600	32500	* 29900	23800	* 26600	18300	* 26400	17800
3.0 m	9.6 m					* 17970	14070	* 14490	10450	* 12460	8170	11760	7680
10'	31'					* 39600	31000	* 31900	23000	* 27400	18000	25900	16900
1.5 m	9.6 m					* 19120	13570	* 15170	10160	12380	8020	11630	7560
5'	31'					* 42100	29900	* 33400	22400	27300	17600	25600	16600
0 m	9.3 m			* 21910	19890	* 19290	13300	* 15340	9970	12280	7920	11970	7740
0'	31'			* 48300	43800	* 42500	29300	* 33800	21900	27000	17400	26300	17000
-1.5 m	8.8 m			* 23330	19970	* 18470	13240	* 14770	9910			* 12350	8300
-5'	29'			* 51400	44000	* 40700	29200	* 32500	21800			* 27200	18300
-3.0 m	8.0 m	* 24120	* 24120	* 20520	20200	* 16560	13350	* 13040	10000			* 12210	9500
-10'	26'	* 53100	* 53100	* 45200	44500	* 36500	29400	* 28700	22000			* 26900	20900
-4.6 m	6.7 m			* 16030	* 16030	* 12840	* 12840					* 11420	* 11420
-15'	22'			* 35300	* 35300	* 28300	* 28300					* 25100	* 25100



A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
Rating at maximum reach

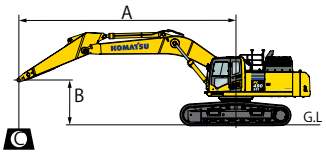
Conditions:
- Boom length: 7,060 mm 23' 2"
- Bucket: None
- Undercarriage: Fixed gauge
- Lifting mode: On

HD Arm: 3,380 mm 11'1" — Shoes: 900 mm 35.5" triple grouser — Unit: kg lbs.

A / B	Max	3.0 m 10' Cf	3.0 m 10' Cs	4.6 m 15' Cf	4.6 m 15' Cs	6.1 m 20' Cf	6.1 m 20' Cs	7.6 m 25' Cf	7.6 m 25' Cs	9.1 m 30' Cf	9.1 m 30' Cs	Max Cf	Max Cs
9.1 m	7.5 m											* 9700	* 9700
30'	24'											* 21300	* 21300
7.6 m	8.6 m							* 11720	11460			* 9200	9200
25'	28'							* 25800	25200			* 20200	20200
6.1 m	9.4 m							* 12230	11270	* 11430	8590	* 9070	8190
20'	31'							* 26900	24800	* 25200	18900	* 20000	18000
4.6 m	9.9 m			* 20080	* 20080	* 15510	15000	* 13160	10950	* 11770	8460	* 9210	7500
15'	33'			* 44200	* 44200	* 34200	33000	* 29000	24100	* 25900	18600	* 20300	16500
3.0 m	10.1 m			* 24120	21240	* 17470	14300	* 14190	10590	* 12260	8270	* 9580	7150
10'	33'			* 53100	46800	* 38500	31500	* 31200	23300	* 27000	18200	* 21100	15700
1.5 m	10.1 m			* 19210	* 19210	* 18890	13740	* 15020	10270	12460	8090	* 10240	7050
5'	33'			* 42300	* 42300	* 41600	30300	* 33100	22600	27400	17800	* 22500	15500
0 m	9.9 m			* 21790	20000	* 19390	13410	* 15390	10040	12320	7970	11050	7190
0'	33'			* 48000	44100	* 42700	29500	* 33900	22100	27100	17500	24300	15800
-1.5 m	9.4 m	* 15850	* 15850	* 24430	19990	* 18910	13290	* 15080	9940	* 12170	7930	* 11600	7640
-5'	31'	* 34900	* 34900	* 53800	44000	* 41600	29300	* 33200	21900	* 26800	17400	* 25500	16800
-3.0 m	8.7 m	* 24660	* 24660	* 21940	20160	* 17370	13340	* 13810	9980			* 11490	8560
-10'	28'	* 54300	* 54300	* 48300	44400	* 38300	29400	* 30400	22000			* 25300	18800
-4.6 m	7.5 m	* 21900	* 21900	* 17970	* 17970	* 14350	13570					* 10930	10450
-15'	25'	* 48200	* 48200	* 39600	* 39600	* 31600	29900					* 24100	23000

*Asterisk indicates load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated load capacity does not exceed 87% of hydraulic lift capacity or 75% of tipping load. Total weight of bucket and/or installed attachments must be deducted from the capacities shown above. Lift capacity chart is based on machine located on a solid, level and uniform surface. Load ratings are at the arm bucket pin location, use of any attachment point in a different location to handle objects could affect excavator lift performance.

Lifting capacity

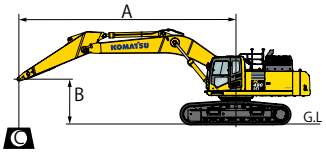


A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
⊗ Rating at maximum reach

Conditions:
- Boom length: 7,060 mm 23' 2"
- Bucket: None
- Undercarriage: Fixed gauge
- Lifting mode: On

Arm: 4,000 mm 13'1" Shoes: 900 mm 35.5" triple grouser Unit: kg lbs.

A / B	Max	3.0 m 10' Cf	3.0 m 10' Cs	4.6 m 15' Cf	4.6 m 15' Cs	6.1 m 20' Cf	6.1 m 20' Cs	7.6 m 25' Cf	7.6 m 25' Cs	9.1 m 30' Cf	9.1 m 30' Cs	Max ⊗ Cf	Max ⊗ Cs
9.1 m	8.2 m											* 8240	* 8240
30'	27'											* 18100	* 18100
7.6 m	9.3 m									* 8750	8670	* 7890	* 7890
25'	30'									* 19200	19100	* 17400	* 17400
6.1 m	10.0 m							* 11350	11330	* 10650	8610	* 7810	7470
20'	33'							* 25000	24900	* 23400	18900	* 17200	16400
4.6 m	10.5 m					* 14350	* 14350	* 12350	10980	* 11120	8440	* 7930	6890
15'	34'					* 31600	* 31600	* 27200	24200	* 24500	18600	* 17400	15100
3.0 m	10.7 m			* 22270	21570	* 16440	14370	* 13480	10570	* 11710	8210	* 8230	6570
10'	35'			* 49100	47500	* 36200	31600	* 29700	23300	* 25800	18100	* 18100	14400
1.5 m	10.7 m			* 25080	20330	* 18130	13700	* 14470	10190	* 12240	7990	* 8760	6470
5'	35'			* 55300	44800	* 39900	30200	* 31900	22400	* 26900	17600	* 19300	14200
0 m	10.5 m			* 23770	19770	* 19010	13260	* 15050	9900	12190	7820	* 9590	6570
0'	34'			* 52400	43500	* 41900	29200	* 33100	21800	26800	17200	* 21100	14400
-1.5 m	10.0 m	* 15460	* 15460	* 25010	19610	* 18940	13050	* 15040	9740	12090	7730	10720	6920
-5'	33'	* 34100	* 34100	* 55100	43200	* 41700	28700	* 33100	21400	26600	17000	23600	15200
-3.0 m	9.3 m	* 22240	* 22240	* 23040	19700	* 17870	13040	* 14220	9720	* 11220	7760	* 10930	7640
-10'	30'	* 49000	* 49000	* 50800	43400	* 39400	28700	* 31300	21400	* 24700	17100	* 24100	16800
-4.6 m	8.2 m	* 25460	* 25460	* 19730	* 19730	* 15550	13200	* 12100	9870			* 10700	9040
-15'	27'	* 56100	* 56100	* 43500	* 43500	* 34200	29100	* 26600	21700			* 23600	19900
-6.1 m	6.6 m			* 14280	* 14280	* 10970	* 10970					* 9670	* 9670
-20'	22'			* 31400	* 31400	* 24100	* 24100					* 21300	* 21300



A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
⊗ Rating at maximum reach

Conditions:
- Boom length: 7,060 mm 23' 2"
- Bucket: None
- Undercarriage: Fixed gauge
- Lifting mode: On

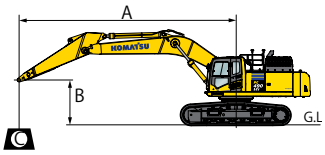
Arm: 4,800 mm 15'9" Shoes: 900 mm 35.5" triple grouser Unit: kg lbs.

A / B	Max	3.0 m 10' Cf	3.0 m 10' Cs	4.6 m 15' Cf	4.6 m 15' Cs	6.1 m 20' Cf	6.1 m 20' Cs	7.6 m 25' Cf	7.6 m 25' Cs	9.1 m 30' Cf	9.1 m 30' Cs	Max ⊗ Cf	Max ⊗ Cs
9.1 m	9.2 m									* 6970	* 6970	* 6620	* 6620
30'	30'									* 15300	* 15300	* 14600	* 14600
7.6 m	10.2 m									* 9450	8830	* 6360	* 6360
25'	33'									* 20800	19400	* 14000	* 14000
6.1 m	10.9 m									* 9740	8720	* 6290	* 6290
20'	36'									* 21400	19200	* 13800	* 13800
4.6 m	11.3 m							* 11310	11130	* 10320	8500	* 6350	6140
15'	37'							* 24900	24500	* 22700	18700	* 14000	13500
3.0 m	11.5 m			* 19860	* 19860	* 15080	14630	* 12560	10670	* 11030	8240	* 6550	5880
10'	38'			* 43700	* 43700	* 33200	32200	* 27700	23500	* 24300	18100	* 14400	12900
1.5 m	11.5 m			* 23500	20710	* 17100	13840	* 13740	10230	* 11710	7980	* 6890	5790
5'	38'			* 51800	45600	* 37700	30500	* 30300	22500	* 25800	17500	* 15200	12700
0 m	11.3 m	* 10360	* 10360	* 25290	19800	* 18430	13270	* 14590	9860	12130	7750	* 7430	5860
0'	37'	* 22800	* 22800	* 55700	43600	* 40600	29200	* 32100	21700	26700	17100	* 16300	12900
-1.5 m	10.9 m	* 14230	* 14230	* 25390	19410	* 18860	12930	* 14920	9630	11970	7610	* 8260	6110
-5'	36'	* 31300	* 31300	* 55900	42800	* 41500	28500	* 32900	21200	26300	16700	* 18200	13400
-3.0 m	10.2 m	* 19240	* 19240	* 24180	19360	* 18350	12820	* 14570	9530	* 11820	7560	* 9580	6630
-10'	33'	* 42400	* 42400	* 53300	42600	* 40400	28200	* 32100	21000	* 26000	16600	* 21100	14600
-4.6 m	9.2 m	* 25760	* 25760	* 21670	19540	* 16760	12890	* 13260	9590	* 10180	7660	* 9990	7580
-15'	30'	* 56700	* 56700	* 47700	43000	* 36900	28400	* 29200	21100	* 22400	16900	* 22000	16700
-6.1 m	7.8 m	* 22870	* 22870	* 17460	* 17460	* 13600	13160	* 10130	9850			* 9540	9510
-20'	26'	* 50400	* 50400	* 38400	* 38400	* 29900	29000	* 22300	21700			* 21000	20900

*Asterisk indicates load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated load capacity does not exceed 87% of hydraulic lift capacity or 75% of tipping load. Total weight of bucket and/or installed attachments must be deducted from the capacities shown above. Lift capacity chart is based on machine located on a solid, level and uniform surface. Load ratings are at the arm bucket pin location, use of any attachment point in a different location to handle objects could affect excavator lift performance.

General specification

Lifting capacity

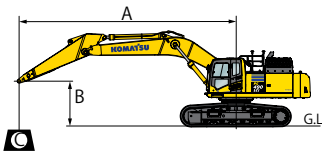


A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
⊗ Rating at maximum reach

Conditions:
- Boom length: 7,060 mm 23' 2"
- Bucket: None
- Undercarriage: Variable Gauge in extended position
- Lifting mode: On

Arm: 2,900 mm 9'6" — Shoes: 900 mm 35.5" triple grouser — Unit: kg lbs.

A / B	Max	3.0 m 10' Cf	3.0 m 10' Cs	4.6 m 15' Cf	4.6 m 15' Cs	6.1 m 20' Cf	6.1 m 20' Cs	7.6 m 25' Cf	7.6 m 25' Cs	9.1 m 30' Cf	9.1 m 30' Cs	Max ⊗ Cf	Max ⊗ Cs
7.6 m	7.9 m							* 12340	12030			* 12260	11270
25'	26'							* 27200	26500			* 27000	24800
6.1 m	8.8 m					* 14370	* 14370	* 12730	11880			* 12030	9590
20'	29'					* 31600	* 31600	* 28000	26100			* 26500	21100
4.6 m	9.3 m			* 21420	* 21420	* 16160	15840	* 13570	11570	* 12090	8920	* 11980	8680
15'	31'			* 47200	* 47200	* 35600	34900	* 29900	25500	* 26600	19600	* 26400	19100
3.0 m	9.6 m					* 17970	15150	* 14490	11220	* 12460	8760	12030	8230
10'	31'					* 39600	33400	* 31900	24700	* 27400	19300	26500	18100
1.5 m	9.6 m					* 19120	14640	* 15170	10920	12670	8610	11900	8110
5'	31'					* 42100	32200	* 33400	24000	27900	18900	26200	17800
0 m	9.3 m			* 21910	21660	* 19290	14370	* 15340	10730	12560	8510	12250	8310
0'	31'			* 48300	47700	* 42500	31600	* 33800	23600	27700	18700	27000	18300
-1.5 m	8.8 m			* 23330	21750	* 18470	14310	* 14770	10670			* 12350	8920
-5'	29'			* 51400	47900	* 40700	31500	* 32500	23500			* 27200	19600
-3.0 m	8.0 m	* 24120	* 24120	* 20520	* 20520	* 16560	14420	* 13040	10760			* 12210	10210
-10'	26'	* 53100	* 53100	* 45200	* 45200	* 36500	31800	* 28700	23700			* 26900	22500
-4.6 m	6.7 m			* 16030	* 16030	* 12840	* 12840					* 11420	* 11420
-15'	22'			* 35300	* 35300	* 28300	* 28300					* 25100	* 25100



A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
⊗ Rating at maximum reach

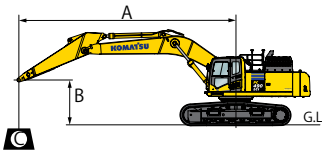
Conditions:
- Boom length: 7,060 mm 23' 2"
- Bucket: None
- Undercarriage: Variable Gauge in extended position
- Lifting mode: On

HD Arm: 3,380 mm 11'1" — Shoes: 900 mm 35.5" triple grouser — Unit: kg lbs.

A / B	Max	3.0 m 10' Cf	3.0 m 10' Cs	4.6 m 15' Cf	4.6 m 15' Cs	6.1 m 20' Cf	6.1 m 20' Cs	7.6 m 25' Cf	7.6 m 25' Cs	9.1 m 30' Cf	9.1 m 30' Cs	Max ⊗ Cf	Max ⊗ Cs
9.1 m	7.5 m											* 9700	* 9700
30'	24'											* 21300	* 21300
7.6 m	8.6 m							* 11720	* 11720			* 9200	* 9200
25'	28'							* 25800	* 25800			* 20200	* 20200
6.1 m	9.4 m							* 12230	12050	* 11430	9180	* 9070	8760
20'	31'							* 26900	26500	* 25200	20200	* 20000	19300
4.6 m	9.9 m			* 20080	* 20080	* 15510	* 15510	* 13160	11730	* 11770	9050	* 9210	8030
15'	33'			* 44200	* 44200	* 34200	* 34200	* 29000	25800	* 25900	19900	* 20300	17700
3.0 m	10.1 m			* 24120	23050	* 17470	15390	* 14190	11360	* 12260	8860	* 9580	7660
10'	33'			* 53100	50800	* 38500	33900	* 31200	25000	* 27000	19500	* 21100	16800
1.5 m	10.1 m			* 19210	* 19210	* 18890	14820	* 15020	11030	* 12650	8680	* 10240	7560
5'	33'			* 42300	* 42300	* 41600	32600	* 33100	24300	* 27900	19100	* 22500	16600
0 m	9.9 m			* 21790	21770	* 19390	14490	* 15390	10800	12610	8550	* 11290	7720
0'	33'			* 48000	48000	* 42700	31900	* 33900	23800	27800	18800	* 24900	17000
-1.5 m	9.4 m	* 15850	* 15850	* 24430	21760	* 18910	14360	* 15080	10700	* 12170	8510	* 11600	8200
-5'	31'	* 34900	* 34900	* 53800	47900	* 41600	31600	* 33200	23600	* 26800	18700	* 25500	18000
-3.0 m	8.7 m	* 24660	* 24660	* 21950	21940	* 17370	14410	* 13810	10740			* 11490	9190
-10'	28'	* 54300	* 54300	* 48300	48300	* 38300	31700	* 30400	23600			* 25300	20200
-4.6 m	7.5 m	* 21900	* 21900	* 17970	* 17970	* 14350	* 14350					* 10930	* 10930
-15'	25'	* 48200	* 48200	* 39600	* 39600	* 31600	* 31600					* 24100	* 24100

*Asterisk indicates load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated load capacity does not exceed 87% of hydraulic lift capacity or 75% of tipping load. Total weight of bucket and/or installed attachments must be deducted from the capacities shown above. Lift capacity chart is based on machine located on a solid, level and uniform surface. Load ratings are at the arm bucket pin location, use of any attachment point in a different location to handle objects could affect excavator lift performance.

Lifting capacity

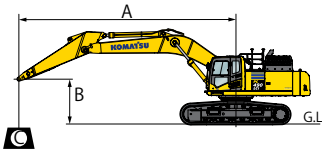


A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
⊗ Rating at maximum reach

Conditions:
- Boom length: 7,060 mm 23' 2"
- Bucket: None
- Undercarriage: Variable Gauge in extended position
- Lifting mode: On

Arm: 4,000 mm 13'1" Shoes: 900 mm 35.5" triple grouser Unit: kg lbs.

A / B	Max	3.0 m 10' Cf	3.0 m 10' Cs	4.6 m 15' Cf	4.6 m 15' Cs	6.1 m 20' Cf	6.1 m 20' Cs	7.6 m 25' Cf	7.6 m 25' Cs	9.1 m 30' Cf	9.1 m 30' Cs	Max ⊗ Cf	Max ⊗ Cs
9.1 m	8.2 m											* 8240	* 8240
30'	27'											* 18100	* 18100
7.6 m	9.3 m									* 8750	* 8750	* 7890	* 7890
25'	30'									* 19200	* 19200	* 17400	* 17400
6.1 m	10.0 m							* 11350	* 11350	* 10650	9210	* 7810	* 7810
20'	33'							* 25000	* 25000	* 23400	20300	* 17200	* 17200
4.6 m	10.5 m					* 14350	* 14350	* 12350	11750	* 11120	9030	* 7930	7380
15'	34'					* 31600	* 31600	* 27200	25900	* 24500	19900	* 17400	16200
3.0 m	10.7 m			* 22270	* 22270	* 16440	15460	* 13480	11340	* 11710	8800	* 8230	7050
10'	35'			* 49100	* 49100	* 36200	34000	* 29700	25000	* 25800	19400	* 18100	15500
1.5 m	10.7 m			* 25080	22120	* 18130	14780	* 14470	10950	* 12240	8580	* 8760	6940
5'	35'			* 55300	48700	* 39900	32500	* 31900	24100	* 26900	18900	* 19300	15300
0 m	10.5 m			* 23770	21540	* 19010	14330	* 15050	10660	12470	8410	* 9590	7060
0'	34'			* 52400	47400	* 41900	31600	* 33100	23500	27500	18500	* 21100	15500
-1.5 m	10.0 m	* 15460	* 15460	* 25010	21380	* 18940	14120	* 15040	10500	* 12310	8320	* 10900	7440
-5'	33'	* 34100	* 34100	* 55100	47100	* 41700	31100	* 33100	23100	* 27100	18300	* 24000	16400
-3.0 m	9.3 m	* 22240	* 22240	* 23040	21480	* 17870	14110	* 14220	10480	* 11220	8350	* 10930	8210
-10'	30'	* 49000	* 49000	* 50800	47300	* 39400	31100	* 31300	23100	* 24700	18400	* 24100	18100
-4.6 m	8.2 m	* 25460	* 25460	* 19730	* 19730	* 15550	14270	* 12100	10630			* 10700	9720
-15'	27'	* 56100	* 56100	* 43500	* 43500	* 34200	31400	* 26600	23400			* 23600	21400
-6.1 m													
-20'													



A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
⊗ Rating at maximum reach

Conditions:
- Boom length: 7,060 mm 23' 2"
- Bucket: None
- Undercarriage: Variable Gauge in extended position
- Lifting mode: On

Arm: 4,800 mm 15'9" Shoes: 900 mm 35.5" triple grouser Unit: kg lbs.

A / B	Max	3.0 m 10' Cf	3.0 m 10' Cs	4.6 m 15' Cf	4.6 m 15' Cs	6.1 m 20' Cf	6.1 m 20' Cs	7.6 m 25' Cf	7.6 m 25' Cs	9.1 m 30' Cf	9.1 m 30' Cs	Max ⊗ Cf	Max ⊗ Cs
9.1 m	9.2 m									* 6970	* 6970	* 6620	* 6620
30'	30'									* 15300	* 15300	* 14600	* 14600
7.6 m	10.2 m									* 9450	9430	* 6360	* 6360
25'	33'									* 20800	20800	* 14000	* 14000
6.1 m	10.9 m									* 9740	9310	* 6290	* 6290
20'	36'									* 21400	20500	* 13800	* 13800
4.6 m	11.3 m							* 11310	* 11310	* 10320	9100	* 6350	* 6350
15'	37'							* 24900	* 24900	* 22700	20000	* 14000	* 14000
3.0 m	11.5 m			* 19860	* 19860	* 15080	* 15080	* 12560	11440	* 11030	8830	* 6550	6320
10'	38'			* 43700	* 43700	* 33200	* 33200	* 27700	25200	* 24300	19400	* 14400	13900
1.5 m	11.5 m			* 23500	22510	* 17100	14930	* 13740	10990	* 11710	8570	* 6890	6220
5'	38'			* 51800	49600	* 37700	32900	* 30300	24200	* 25800	18800	* 15200	13700
0 m	11.3 m	* 10360	* 10360	* 25290	21580	* 18430	14340	* 14590	10630	* 12190	8340	* 7430	6300
0'	37'	* 22800	* 22800	* 55700	47500	* 40600	31600	* 32100	23400	* 26800	18400	* 16300	13800
-1.5 m	10.9 m	* 14230	* 14230	* 25390	21180	* 18860	14000	* 14920	10390	12250	8190	* 8260	6580
-5'	36'	* 31300	* 31300	* 55900	46700	* 41500	30800	* 32900	22900	27000	18000	* 18200	14500
-3.0 m	10.2 m	* 19240	* 19240	* 24180	21130	* 18350	13880	* 14570	10290	* 11820	8150	* 9580	7130
-10'	33'	* 42400	* 42400	* 53300	46500	* 40400	30600	* 32100	22700	* 26000	17900	* 21100	15700
-4.6 m	9.2 m	* 25760	* 25760	* 21670	21310	* 16760	13960	* 13260	10350	* 10180	8250	* 9990	8160
-15'	30'	* 56700	* 56700	* 47700	46900	* 36900	30700	* 29200	22800	* 22400	18100	* 22000	18000
-6.1 m	7.8 m	* 22870	* 22870	* 17460	* 17460	* 13600	* 13600	* 10130	* 10130			* 9540	* 9540
-20'	26'	* 50400	* 50400	* 38400	* 38400	* 29900	* 29900	* 22300	* 22300			* 21000	* 21000

*Asterisk indicates load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated load capacity does not exceed 87% of hydraulic lift capacity or 75% of tipping load. Total weight of bucket and/or installed attachments must be deducted from the capacities shown above. Lift capacity chart is based on machine located on a solid, level and uniform surface. Load ratings are at the arm bucket pin location, use of any attachment point in a different location to handle objects could affect excavator lift performance.

Equipment

Cab	PC490LC	PC490LCi
ROPS cab (ISO12117-2)	●	●
High back air suspension seat, with heat	●	●
Operator Protective Guard (OPG) Level 1 top guard	●	●
177.8 mm (7") LCD high resolution color monitor	●	●
Automatic climate control	●	●
Retractable seat belt (76 mm width) with indicator	●	●
(2) 12V accessory outlet	●	●
Rearview mirrors, right hand and left hand side	●	●
Rearview monitoring system (1 camera)	●	●
Travel alarm	●	●
Proportional joystick control levers	○	●
Opertator identification system	●	●
Hydraulic lock lever	●	●
Skylight	●	●
Sunvisor	○	○
Rainvisor	○	○
Working lights, two additional cab mounted	○	○
Straigth travel pedal	□	□

Engine	PC490LC	PC490LCi
Komatsu SAA6D125E-7 tier 4 final	●	●
Dry type air cleaner, double element	●	●
Fuel pre-filter with water separator	●	●
Fuel high efficiency filter	●	●
Automatic engine warm up system	●	●
Programmable auto-idle shut down	●	●
Overheat prevention system	●	●
Turbocharger protection system	●	●
High altitude arrangement	○	○

Hydraulic controls	PC490LC	PC490LCi
Pattern change control valve (ISO to BH control)	●	●
Working mode selection system (6 modes)	●	●
Dual pump, Closed Center Load Sensing System (CLSS)	●	●
Hydraulically driven variable speed fan	●	●
Auto-decelaration system	●	●
Power Max system	●	●
Boom and arm holding valves	●	●
Two boom pressure mode settings	●	●
"One way/two way flow hydraulic control unit Variable pressure, return filter, and accumulator"	○	-
"One way/two way flow hydraulic control unit Variable pressure and flow, return filter, and accumulator"	-	○

Technology	PC490LC	PC490LCi
Komtrax level 5.0	●	●
Intelligent Machine Control (IMC)	-	●
264 mm (10.4") IMC color monitor with USB	-	●
Multi-band UHF/915SS radio	-	●
Auto grade assist	-	●
Auto stop control	-	●
Minimum distance control	-	●
Bucket angle hold control	-	●
Komvision (4 camera system)	-	○□
In field design - 2D simple surface	-	●

Electrical system	PC490LC	PC490LCi
Batteries, large capacity (2 x 12 Volt)	●	●
Battery master disconnect switch with lockout tagout	●	●
Alternator (90 Amp, 24 Volt)	●	●
Starter motor (11 kW)	●	●
Secondary engine shut off switch	●	●
Working lights (1 front RH side / 1 boom LH side)	●	●

Booms and arms	PC490LC	PC490LCi
7000 mm (23'2") HD boom assembly	●	●
7000 mm (23'2") HD boom assembly with +1 attach piping	○	○
3380 mm (11'1") arm assembly	●	●
3380 mm (11'1") arm assembly with +1 attach piping	○	○
3380 mm (11'1") SD arm assembly	○	-
3380 mm (11'1") SD arm assembly with +1 attach piping	○	-
4000 mm (13'1") arm assembly	○	○
4800 mm (15'9") arm assembly	○	○
Super long front arrangment (65')	○	-
Boom foot, boom nose, and arm end steel castings	●	●

Undercarriage and work equipment	PC490LC	PC490LCi
900 mm (35.5") triple grouser track shoes	●	●
800 mm (31.5") single grouser track shoes	○	○
700 mm (28") triple grouser track shoes	○	○
8 track / 2 carrier rollers (each side)	●	●
Hydraulic track adjusters (each side)	●	●
Track guiding guards, center section (each side)	●	●
Track roller guards, full length (each side)	○	○
Counterweight, 9573 kg (21,105 lbs.)	●	●
Counterweight removal system, 8700 kg (19,180 lbs.)	○	-
Counterweight, 11500 kg (25,353lbs.)*2	○	-
Object handling H-link	●	●
Fixed gauge track frame	●	●
Varialbe gauge track frame (113")	○	○

Guards and covers	PC490LC	PC490LCi
Revolving frame deck guards	●	●
Revolving frame undercovers - standard duty	●	●
Track frame swivel guard	●	●
Pump / engine room partition	●	●
Turbocharger exhaust manifold cover	●	●
Dust net for radiator and hydraulic oil cooler	●	●
Slip resistant foot plates	●	●
Tool free access to engine and aftertreatment	●	●
Left and right side hand rails	●	●
Cab full front guard, OPG Level 1	○	○
Cab full front guard, OPG Level 2	○	○
Cab top guard, OPG Level 2	○	○
Revlolving frame undercovers - heavy duty	○	○
Revolving frame undercovers - severe duty	○	○

Drive and brake system	PC490LC	PC490LCi
Three speed travel with auto shift	●	●
Double reduction type final drive	●	●
Triple labyrinth final drive seals	●	●

*With revolving frame reinforcements, Only available with super long fronts.
For a complete list of available attachments, please contact your local Komatsu distributor.

Standard equipment	●
Optional equipment	○
Optional (field install)	□
Not applicable	-

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