

KOMATSU®

PC390LCi-11

Tier 4 Final Engine

HYDRAULIC EXCAVATOR



Photos may include optional equipment.

NET HORSEPOWER

257 HP @ 1950 rpm
192 kW @ 1950 rpm

OPERATING WEIGHT

87,867–90,441 lb
39856–41023 kg

BUCKET CAPACITY

0.89–2.91 yd³
0.68–2.22 m³



PC390LCi

WALK-AROUND



NET HORSEPOWER

257 HP @ 1950 rpm
192 kW @ 1950 rpm

OPERATING WEIGHT

87,867–90,441 lb
39856–41023 kg

BUCKET CAPACITY

0.89–2.91 yd³
0.68–2.22 m³

Photos may include optional equipment.

MAKE EVERY PASS COUNT



Improve your efficiency – less time required to complete excavation to finish grade with intelligent Machine Control (see pg 5).

Semi-automatic operation – next generation technology goes beyond traditional machine guidance (indicate only) type systems.

Innovative

- intelligent Machine Control excavator features semi-automatic operation of equipment for highly accurate work.
- Large 12.1" (30.7 cm) monitor neatly displays simultaneous information such as magnified fine grading view, 3D view, current as-built status, etc.

Integrated

- Complete factory installed integrated intelligent Machine Control system comes standard with stroke sensing hydraulic cylinders, Global Navigation Satellite System (GNSS) components and an Inertial Measurement Unit (IMU) sensor. All components are validated to Komatsu's rigid quality & durability standards.

Intelligent

- intelligent Machine Control excavator allows the operator to focus on moving material efficiently while semi-automatically tracing the target surface and limiting over-excavation.
- Facing angle compass, light bar and sound guidance aid in ease of operation and bucket positioning.



INTELLIGENT MACHINE CONTROL

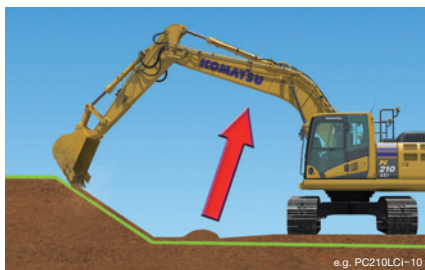


Photo may include optional equipment. PC210LCI-11 shown.

intelligent Machine Control

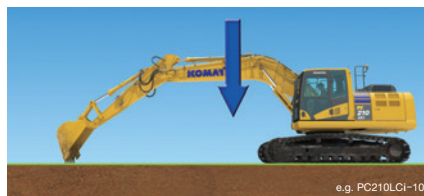
intelligent Machine Control is based on Komatsu's unique sensor package, including stroke sensing hydraulic cylinders, an IMU sensor, and GNSS antennas. It utilizes 3D design data loaded in the control box to accurately check its position against the target. If the bucket hits the target surface,

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 (indicate only).



• Auto grade assist

With the auto grade assist function, the operator moves the arm, 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.



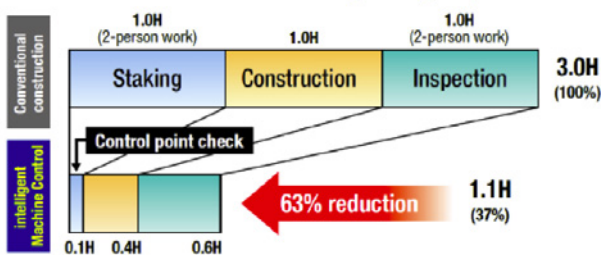
• Minimum distance control

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.

Improved Construction Efficiency

Staking, survey and final inspection (which is 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 that 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 an expert operator, the Komatsu intelligent Machine Control system increases construction efficiency. Reduction based on PC360LCi-11 Performance.

* 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.



PC360LCi-11 shown.

Comparison of Slope Shaping Work

Conventional construction

Shaping with reference to finishing stakes



Intelligent Machine Control

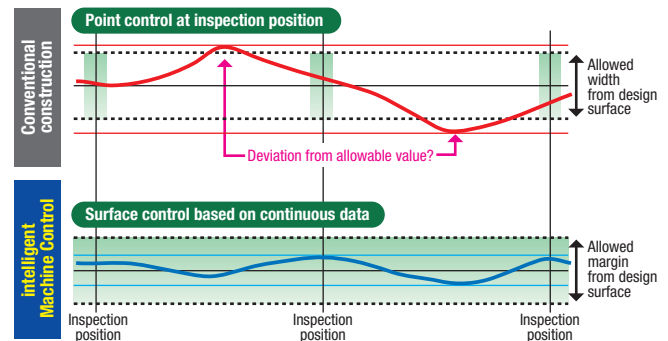
Reduces staking work and the number of assistant workers.



Improved Work Accuracy

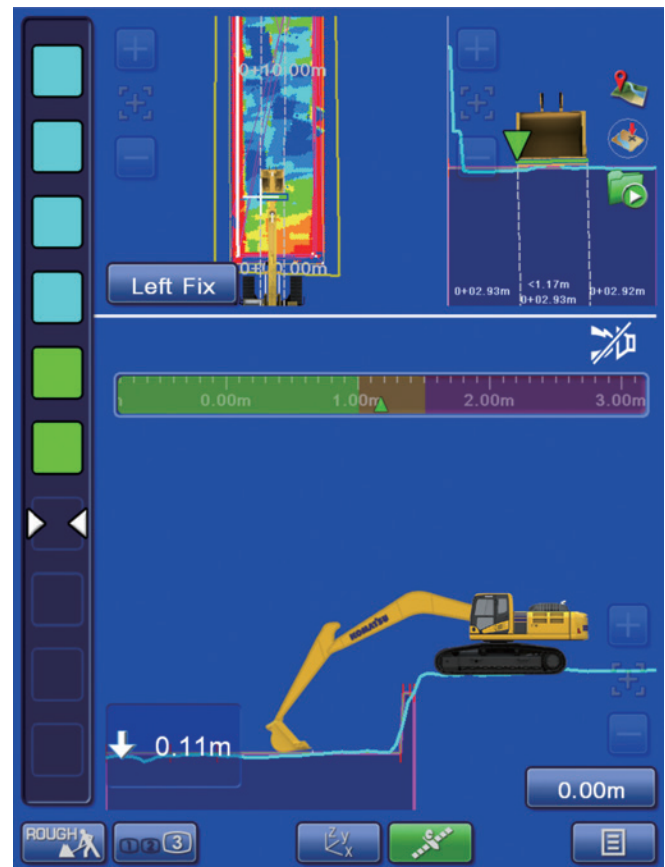
The bucket edge/tip position is instantly displayed on the control box, eliminating the wait time for display on the monitor during construction. The large and easy-to-view control box displays information clearly, aiding in highly accurate work. With manual operation and conventional machine guidance, finish grade quality and excavating accurately depends 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

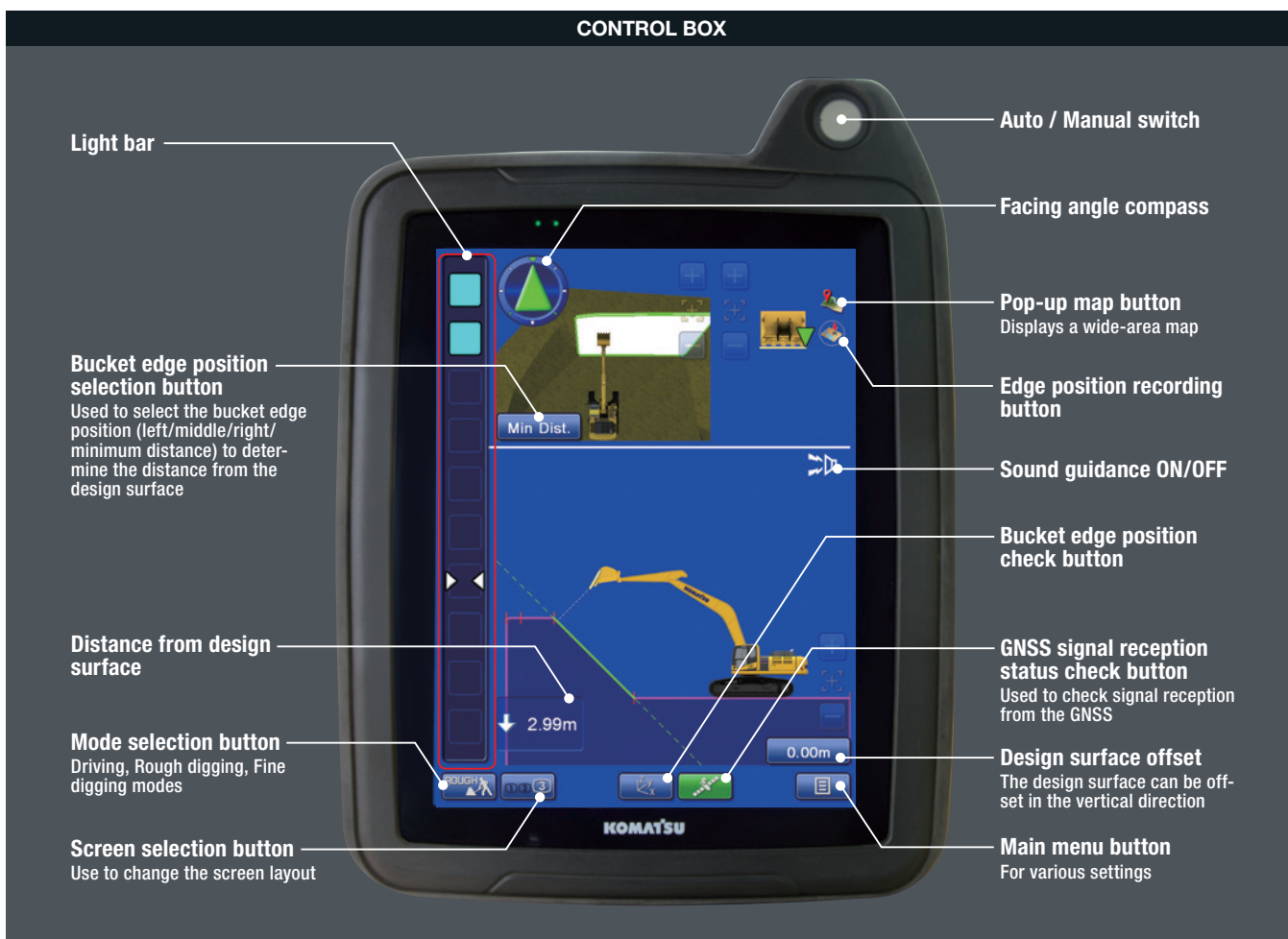


As-Built Surface Track Mapping

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



INTELLIGENT MACHINE CONTROL



Control Box

The monitor of the Komatsu intelligent Machine Control (control box) uses a large 12.1" (30.7 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.

Bucket Edge Guidance with Eyesight and Sound

Light bar

Colors show the bucket edge position relative to the target surface. Since the light bar is located on the left side of the screen, the bucket edge position can be viewed simply while operating, which increases the work efficiency.



Sound guidance

The operator can recognize the target surfaces not only by eyesight, but also by sound. Unique tones can be programmed for various bucket edge distances from the target surface.



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.

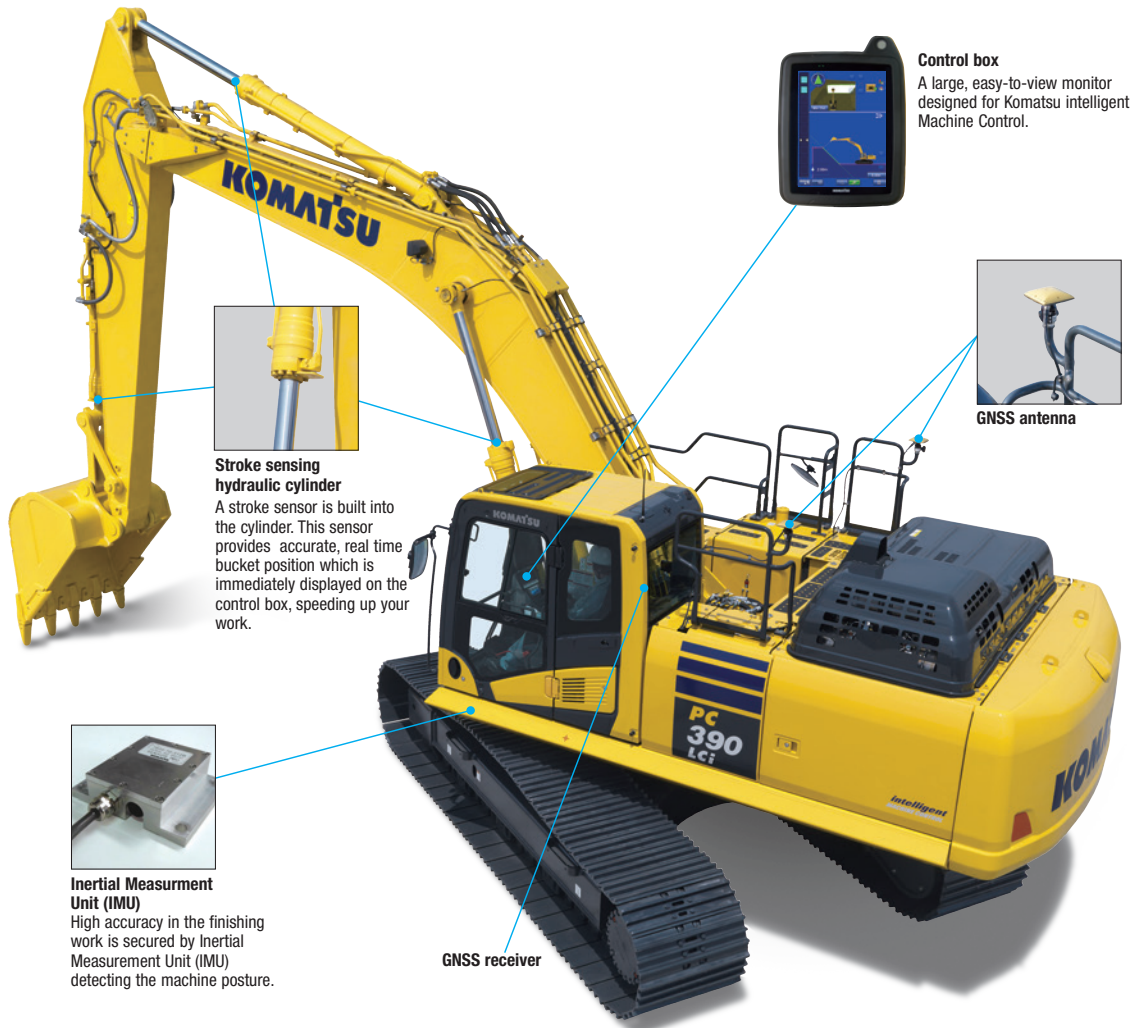


Enhanced operability of the machine control

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.



TOPCON Sitelink 3D Enterprise

The Sitelink 3D Enterprise connects the office and machine via a network, to help visualize the worksite clearly.



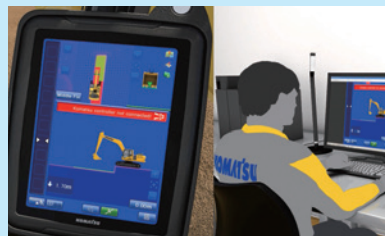
Transmission of design data from office to machine



Sending messages from office to machine or vice versa



Progress information and as-built data can be sent to the office from the machine in real time.



Remote assistance function enables troubleshooting from anywhere via the internet.

Please contact your local Topcon dealer for details.

PERFORMANCE FEATURES

KOMATSU'S NEW ENGINE TECHNOLOGIES

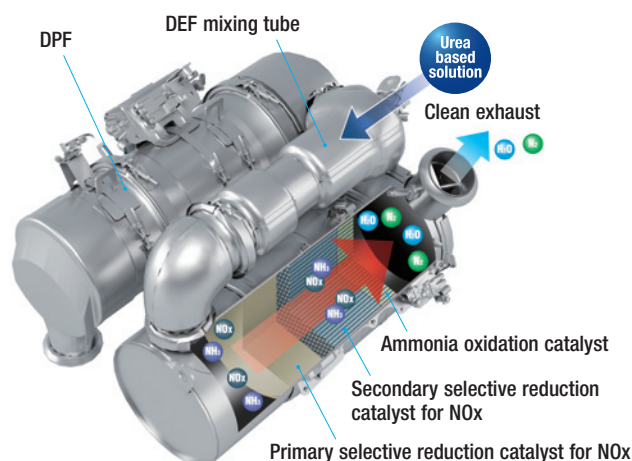
Komatsu's New Emission Regulations-compliant Engine

New regulations effective in 2014 require the reduction of NOx emissions to one tenth or below from the preceding regulations. In addition to refining the Tier 4 Interim technologies, Komatsu has developed a new Selective Catalytic Reduction (SCR) device in-house.

Technologies Applied to New Engine

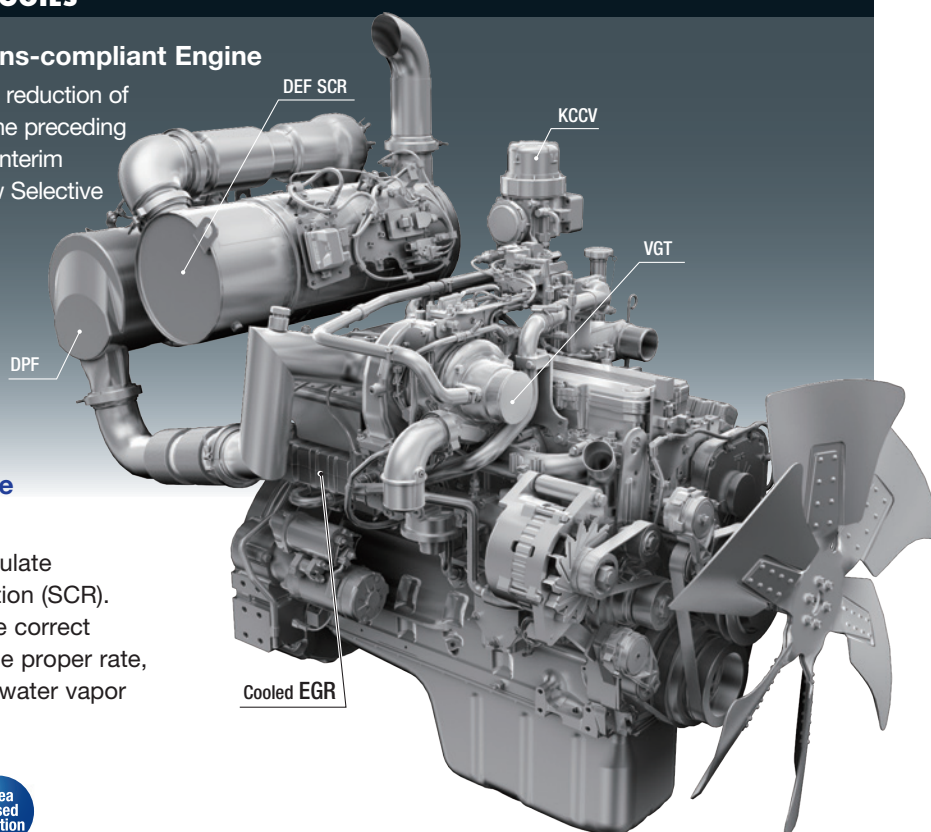
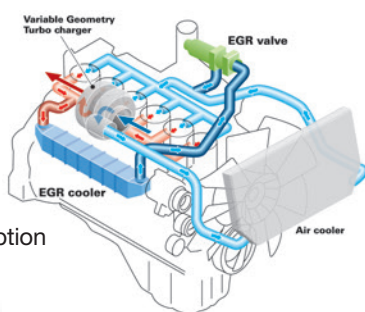
Heavy-duty aftertreatment system

This new system combines a Diesel Particulate Filter (DPF) and Selective Catalytic Reduction (SCR). The SCR NOx reduction system injects the correct amount of Diesel Exhaust Fluid (DEF) at the proper rate, thereby decomposing NOx into non-toxic water vapor (H₂O) and nitrogen gas (N₂).



Heavy-duty cooled Exhaust Gas Recirculation (EGR) system

The system recirculates a portion of exhaust gas into the air intake and lowers combustion temperatures, thereby reducing NOx emissions. EGR gas flow has been decreased for Tier 4 Final with the addition of SCR technology. The system achieves a dynamic reduction of NOx, while helping reduce fuel consumption below Tier 4 Interim levels.

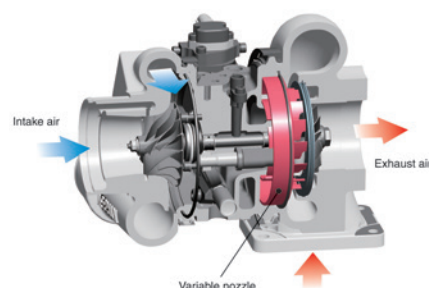


Advanced Electronic Control System

The electronic control system performs high-speed processing of all signals from sensors installed in the vehicle providing total control of equipment in all conditions of use. Engine condition information is displayed via an on-board network to the monitor inside the cab, providing necessary information to the operator. Additionally, managing the information via KOMTRAX helps customers keep up with required maintenance.

Variable Geometry Turbocharger (VGT) system

The VGT system features proven Komatsu design hydraulic technology for variable control of air-flow and supplies optimal air according to load conditions. The upgraded version provides better exhaust temperature management.





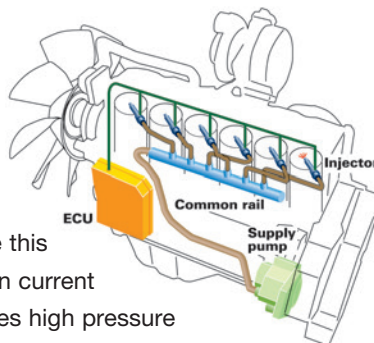
Komatsu Auto Idle Shutdown

Komatsu auto idle shutdown automatically shuts the engine down after idling for a set period of time to reduce unnecessary fuel consumption and exhaust emissions. The amount of time before the engine is shutdown can be easily programmed from 5 to 60 minutes.



Heavy-Duty High-Pressure Common Rail (HPCR) Fuel Injection System

The system is designed to achieve an optimal injection of high-pressure fuel by means of computerized control, providing close to complete combustion to reduce PM emissions. While this technology is already used in current engines, the new system uses high pressure injection, thereby reducing both PM emissions and fuel consumption over the entire range of engine operating conditions. The Tier 4 Final engine has advanced fuel injection timing for reduced fuel consumption and lower soot levels.



Enhanced Productivity

The PC390LCi-11's P Mode provides improved performance in demanding applications.

Productivity

Up to 12% increase
(compared to the PC390LC-10 in P Mode)

P mode (90° swing truck loading)

Increased Work Efficiency

Large digging force

With the one-touch Power Max. function, digging force is increased for up to 8.5 seconds of operation.

Maximum arm crowd force (ISO)

160 kN(16.3t) ➔ 171 kN(17.4t) 7% UP
(With Power Max.)

Maximum bucket digging force (ISO)

213 kN(21.7t) ➔ 228 kN(23.2t) 7% UP
(With Power Max.)

Measured with Power Max. function, 3185 mm arm and ISO rating

Faster arm cycle speeds

Two return hoses improve arm cylinder hydraulic flow for faster arm out performance.

Two-mode settings for boom

- Smooth boom mode provides easy operation for gathering material or scraping down
- Power boom mode maximizes digging force for more effective excavating

Lifting mode

When the Lifting mode is selected, lifting capacity is increased 7% by raising hydraulic pressure.



WORKING ENVIRONMENT



Photo may include optional equipment. PC210LCI-11 shown.

Comfortable Working Space

Wide spacious cab

Wide spacious cab includes seat with reclining backrest. The seat height and longitudinal inclination are easily adjusted using a pull-up lever. You can set the appropriate operational posture of armrest together with the console. Reclining the seat further enables you to place it into the fully flat state with the headrest attached.

Arm rest with simple height adjustment function

A plunger and lock permits simple and fast adjustments for arm rest height.



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)



Remote intermittent wiper with windshield washer



Opening & closing skylight



Defroster (conforms to the ISO standard)



AM/FM stereo radio & ashtray



Cigarette lighter



Magazine box & cup holder



One-touch storable front window lower glass



GENERAL FEATURES



ROPS CAB STRUCTURE

ROPS Cab (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 requirements for Level 1 Operator Protective Guard (OPG) and top guard (ISO 10262).



Rear View Monitoring System

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

Rear view camera

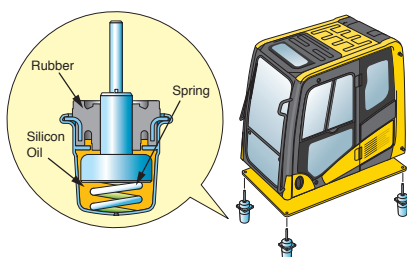


Rear view image on monitor



Low Vibration with Viscous Cab Mounts

The PC390LCi-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 reduces vibration at the operator's seat.



General Features

Secondary engine shut down switch at base of seat to shutdown the engine.



Seat belt caution indicator



Lock lever

Retractable seat belt

Tempered & tinted glass

Large cab entrance step

Left and right side hand rails

Large mirrors

Slip-resistant plates

Thermal and fan guards

Pump/engine compartment partition

Travel alarm



MAINTENANCE FEATURES

PC390LC-11



PC390LC-11 shown

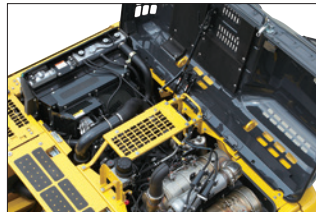
Large capacity air cleaner

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



Engine Access

Large rear opening hood provides excellent maintenance and service access to key engine components.



Fuel Filters

Large high-efficiency fuel filter and pre-filter with water separator removes contaminants from fuel for improved fuel injection system life. Built-in priming pump simplifies maintenance.



High efficiency fuel filter

Fuel pre-filter (with water separator)

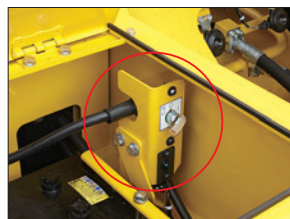
Easy access to engine oil filter and fuel drain valve

Engine oil filter and fuel drain valve are remote mounted to improve accessibility.



Battery disconnect switch

A standard battery disconnect switch allows a technician to disconnect the power supply and lock out before servicing the machine.



Air conditioner filter

The air conditioner filter can be removed and installed without the use of tools for easy filter maintenance.

Washable cab floormat

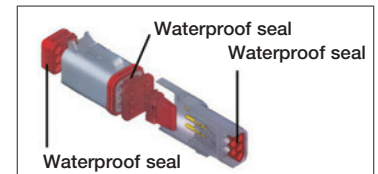
Sloping track frame

Long-life oils, filters

Engine oil & engine oil filter	every 500 hours
Hydraulic oil	every 5000 hours
Hydraulic oil filter	every 1000 hours

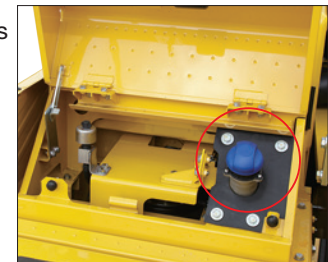
DT-type connectors

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



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.



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 DPF.



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 PARTS & SERVICE SUPPORT



KOMATSU CARE Program Includes:

*The PC390LCi-11 comes standard with complimentary factory scheduled maintenance for the first 3 Years or 2,000 Hours, whichever comes first.

Planned Maintenance Intervals at:

500/1000/1500/2000 hour intervals. (250 hr. initial interval for some products) Complimentary Maintenance Interval includes: Replacement of Oils & Fluid Filters with genuine Komatsu Parts, 50-Point Inspection, Komatsu Oil & Wear Analysis Sampling (KOWA) / Travel & Mileage (distance set by distributor; additional charges may apply)

Benefits of Using Komatsu CARE

- Assurance of Proper Maintenance with OEM Parts & Service
- Increased Uptime & Efficiency
- Factory Certified Technicians Performing Work
- Cost of Ownership Savings
- Transferable Upon Resale

Complimentary DPF Exchange

The PC390LCi-11 comes standard with 2 Complimentary DPF Exchange units for the first 5 Years or 9000 hours whichever comes first. The suggested DPF Exchange unit service intervals are 4500 hours & 9000 hours. End user must have authorized Komatsu distributor perform the removal & installation of the DPF.

Complimentary SCR Maintenance

The PC390LCi-11 also includes 2 factory recommended services of the Selective Catalytic Reduction (SCR) Diesel Exhaust Fluid (DEF) system during the first 5 Years or 9000 hours whichever comes first. The service includes factory recommended DEF tank flush & strainer cleaning at the suggested service intervals of 4500 hours & 9000 hours.

Interval PM	500	1000	1500	2000
KOWA SAMPLING (Engine, Hydraulics, Swing Circle, L & R Final Drives)	✓	✓	✓	✓
LUBRICATE MACHINE	✓	✓	✓	✓
LUBRICATE SWING CIRCLE	✓	✓	✓	✓
CHECK SWING PINION GREASE LEVEL AND ADD, WHEN NECESSARY	✓	✓	✓	✓
CHANGE ENGINE OIL	✓	✓	✓	✓
REPLACE ENGINE OIL FILTER	✓	✓	✓	✓
REPLACE FUEL PRE-FILTER	✓	✓	✓	✓
REPLACE AC FRESH & RECIRC AIR FILTERS	✓	✓	✓	✓
CLEAN AIR CLEANER ELEMENT	✓	✓	✓	✓
DRAIN SEDIMENT FROM FUEL TANK	✓	✓	✓	✓
COMPLETE 50 POINT INSPECTION FORM; LEAVE PINK COPY WITH CUSTOMER OR IN CAB	✓	✓	✓	✓
RESET MONITOR PANEL MAINTENANCE COUNTER FOR APPROPRIATE ITEMS	✓	✓	✓	✓
REPLACE HYDRAULIC TANK BREATHER ELEMENT		✓		✓
REPLACE DEF TANK BREATHER ELEMENT		✓		✓
CHECK OIL LEVEL IN DAMPER CASE, ADD WHEN NECESSARY		✓		✓
REPLACE MAIN FUEL FILTER		✓		✓
CHANGE SWING MACHINERY OIL		✓		✓
REPLACE HYDRAULIC OIL FILTER ELEMENT		✓		✓
CLEAN HYDRAULIC TANK STRAINER				✓
CHANGE FINAL DRIVE OIL				✓
REPLACE KCCV FILTER ELEMENT				✓
REPLACE DEF PUMP FILTER				✓
FACTORY TRAINED TECHNICIAN LABOR	✓	✓	✓	✓
2 DPF Exchanges during the first 5 years or 9,000 Hrs.				
2 SCR System Maintenance Services at 4,500 Hrs. and 9,000 Hrs.				

Komatsu CARE® – Extended Coverage

- Extended Coverage can provide peace of mind by protecting customers from unplanned expenses that effect cash flow
- Purchasing extended coverage locks-in the cost of covered parts and labor for the coverage period and helps turn these into fixed costs



Komatsu Parts Support

- 24/7/365 to fulfill your parts needs
- 9 parts Distribution Centers strategically located across the U.S. and Canada
- Distributor network of more than 300 locations across U.S. and Canada to serve you
- Online part ordering through Komatsu eParts
- Remanufactured components with same-as-new warranties at a significant cost reduction



Komatsu Oil and Wear Analysis (KOWA)

- KOWA detects fuel dilution, coolant leaks, and measures wear metals
- Proactively maintain your equipment
- Maximize availability and performance
- Can identify potential problems before they lead to major repairs
- Reduce life cycle cost by extending component life

* Certain exclusions and limitations apply. Refer to the customer certificate for complete program details and eligibility. Komatsu® and Komatsu Care® are registered trademarks of Komatsu Ltd. Copyright 2017 Komatsu America Corp.

KOMTRAX EQUIPMENT MONITORING



GET THE WHOLE STORY WITH
KOMTRAX®

✓ WHAT

- KOMTRAX is Komatsu's remote equipment monitoring and management system
- KOMTRAX **continuously monitors and records** machine health and operational data
- Information such as fuel consumption, utilization, and a detailed history **lowering owning and operating cost**

✓ WHEN

- Know when your machines are **running or idling** and make decisions that will improve your fleet utilization
- Detailed movement records ensure you know when and where your equipment is moved
- Up to date records allow you to **know when maintenance is due** and help you plan for future maintenance needs

✓ WHERE

- KOMTRAX data **can be accessed virtually anywhere** through your computer, the web or your smart phone
- Automatic alerts keep fleet managers up to date on the latest machine notifications

✓ WHY

- Knowledge is power - **make informed decisions** to manage your fleet better
- Knowing your idle time and fuel consumption will help maximize your machine efficiency
- **Take control of your equipment** - any time, anywhere

✓ WHO

- KOMTRAX is **standard** equipment on all Komatsu construction products



Photo many include optional equipment.



KOMTRAX®

For construction and compact equipment.

PG390LG1-11



*EPA Tier 4 Final emissions certified



Boom	2-140 mm x 1480 mm x 100 mm	5.5" x 58.3" x 3.9"
Arm	1-160 mm x 1825 mm x 110 mm	6.3" x 71.9" x 4.3"
Bucket.....	 for 3.2 m 10'5" and 4.0 m 13'2" Arms	
	1-140 mm x 1285 mm x 100 mm	5.5" x 50.6" x 3.9"
.....	 for 2.54 m 8'4" Arm	
	1-150 mm x 1285 mm x 110 mm	5.9" x 50.6" x 4.3"



Service brake..... Hydraulic lock
Parking brake..... Mechanical disc brake



UNDERCARRIAGE

COOLANT & LUBRICANT CAPACITY (REFILLING)

SOUND PERFORMANCE

OPERATING WEIGHT (APPROXIMATE)

Triple-Grouser Shoes	Operating Weight	Ground pressure (ISO 16754)
700 mm 28"	39856 kg 87,867 lb	0.61 kg/cm ² 8.61 psi
800 mm 31.5"	40359 kg 88,976 lb	0.54 kg/cm ² 7.63 psi
900 mm 35.5"	40796 kg 89,940 lb	0.48 kg/cm ² 6.86 psi

Counterweight 6920 kg **15,255 lb**



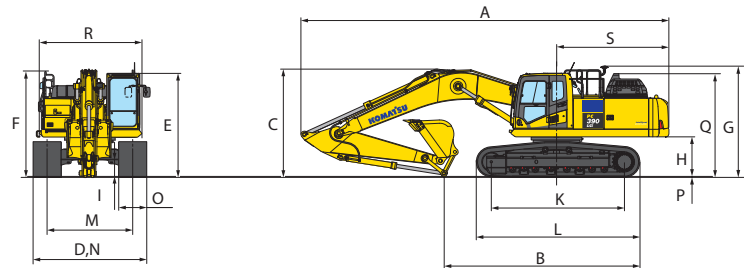
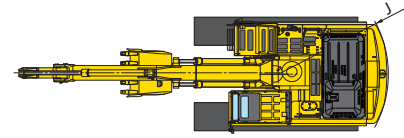
DIMENSIONS



	Arm Length	3185 mm	10'5"	4020 mm	13'2"
A	Overall length	11170 mm	36'8"	11230 mm	36'10"
B	Length on ground (transport)	7530 mm	24'8"	5515 mm	18'1"
C	Overall height (to top of boom)*	3420 mm	11'3"	3690 mm	12'1"
D	Overall width	3640 mm	11'11"		
E	Overall height (to top of cab)*	3262 mm	10'8"		
F	Overall height (to top of handrail)*	3363 mm	11'0"		
G	Overall height (to top of GNSS antenna)*	3420 mm	11'3"		
H	Ground clearance, counterweight	1320 mm	4'4"		
I	Ground clearance, minimum	551 mm	1'10"		
J	Tail swing radius	3445 mm	11'4"		
K	Track length on ground	4350 mm	14'3"		
L	Track length	5357 mm	17'7"		
M	Track gauge	2740 mm	9'0"		
N	700 mm 28" shoe	3440 mm	11'2"		
	800 mm 31.5" shoe	3540 mm	11'6"		
	900 mm 35.5" shoe	3640 mm	11'11"		
O	Shoe width	900 mm	35.5"		
P	Grouser height	37 mm	1.5"		
Q	Machine height to top of engine cover	3135 mm	10'3"		
R	Machine upper width **	3145 mm	10'4"		
S	Distance, swing center to rear end	3405 mm	11'2"		

*: Including grouser height

**: Including handrail



BACKHOE BUCKET, ARM AND BOOM COMBINATION

Bucket Type	Bucket									6.5 m (21'3") HD Boom		
	Capacity		Teeth	Width		Weight		Tip Radius		3.2 m (10'5")	4.0 m (13'2")	
Komatsu TL	0.93 m³	1.21 yd³	4	762 mm	30"	1097 kg	2418 lb	1674 mm	65.9"	●	●	
	1.18 m³	1.54 yd³	4	914 mm	36"	1198 kg	2641 lb	1674 mm	65.9"	●	●	
	1.44 m³	1.88 yd³	5	1067 mm	42"	1325 kg	2921 lb	1674 mm	65.9"	●	●	
	1.70 m³	2.22 yd³	5	1219 mm	48"	1426 kg	3144 lb	1674 mm	65.9"	●	○	
	1.96 m³	2.56 yd³	6	1372 mm	54"	1554 kg	3425 lb	1674 mm	65.9"	○	□	
	2.22 m³	2.91 yd³	6	1524 mm	60"	1554 kg	3425 lb	1674 mm	65.9"	□	⊙	
	Komatsu HP	0.68 m³	0.89 yd³	3	610 mm	24"	1022 kg	2254 lb	1674 mm	65.9"	●	●
		0.93 m³	1.21 yd³	4	762 mm	30"	1178 kg	2598 lb	1674 mm	65.9"	●	●
		1.18 m³	1.54 yd³	4	914 mm	36"	1358 kg	2993 lb	1674 mm	65.9"	●	●
		1.44 m³	1.88 yd³	5	1067 mm	42"	1439 kg	3173 lb	1674 mm	65.9"	●	●
1.70 m³		2.22 yd³	5	1219 mm	48"	1555 kg	3429 lb	1674 mm	65.9"	●	□	
	1.96 m³	2.56 yd³	6	1372 mm	54"	1701 kg	3750 lb	1674 mm	65.9"	□	⊙	
	2.22 m³	2.91 yd³	6	1524 mm	60"	1554 kg	3425 lb	1674 mm	65.9"	⊙	X	
	Komatsu HPS	0.68 m³	0.89 yd³	3	610 mm	24"	1112 kg	2451 lb	1674 mm	65.9"	●	●
		0.93 m³	1.21 yd³	4	762 mm	30"	1294 kg	2853 lb	1674 mm	65.9"	●	●
		1.18 m³	1.54 yd³	4	914 mm	36"	1437 kg	3167 lb	1674 mm	65.9"	●	●
1.44 m³		1.88 yd³	5	1067 mm	42"	1607 kg	3543 lb	1674 mm	65.9"	●	○	
1.70 m³		2.22 yd³	5	1219 mm	48"	1750 kg	3857 lb	1674 mm	65.9"	○	□	
	1.96 m³	2.56 yd³	6	1372 mm	54"	1921 kg	4236 lb	1674 mm	65.9"	□	⊙	
	2.22 m³	2.91 yd³	6	1524 mm	60"	1554 kg	3425 lb	1674 mm	65.9"	⊙	X	
	Komatsu HPX	0.68 m³	0.89 yd³	3	610 mm	24"	1239 kg	2731 lb	1674 mm	65.9"	●	●
		0.93 m³	1.21 yd³	4	762 mm	30"	1421 kg	3133 lb	1674 mm	65.9"	●	●
		1.18 m³	1.54 yd³	4	914 mm	36"	1564 kg	3447 lb	1674 mm	65.9"	●	●
1.44 m³		1.88 yd³	5	1067 mm	42"	1734 kg	3823 lb	1674 mm	65.9"	●	○	
1.70 m³		2.22 yd³	5	1219 mm	48"	1877 kg	4137 lb	1674 mm	65.9"	○	□	
	1.96 m³	2.56 yd³	6	1372 mm	54"	2048 kg	4516 lb	1674 mm	65.9"	□	⊙	
	2.22 m³	2.91 yd³	6	1524 mm	60"	1554 kg	3425 lb	1674 mm	65.9"	⊙	X	

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

- 2500 kg **5,511 lb** maximum for 3185 mm **10' 5"** standard arm assembly
- 2350 kg **5,180 lb** maximum for 4020 mm **13' 2"** standard arm assembly

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

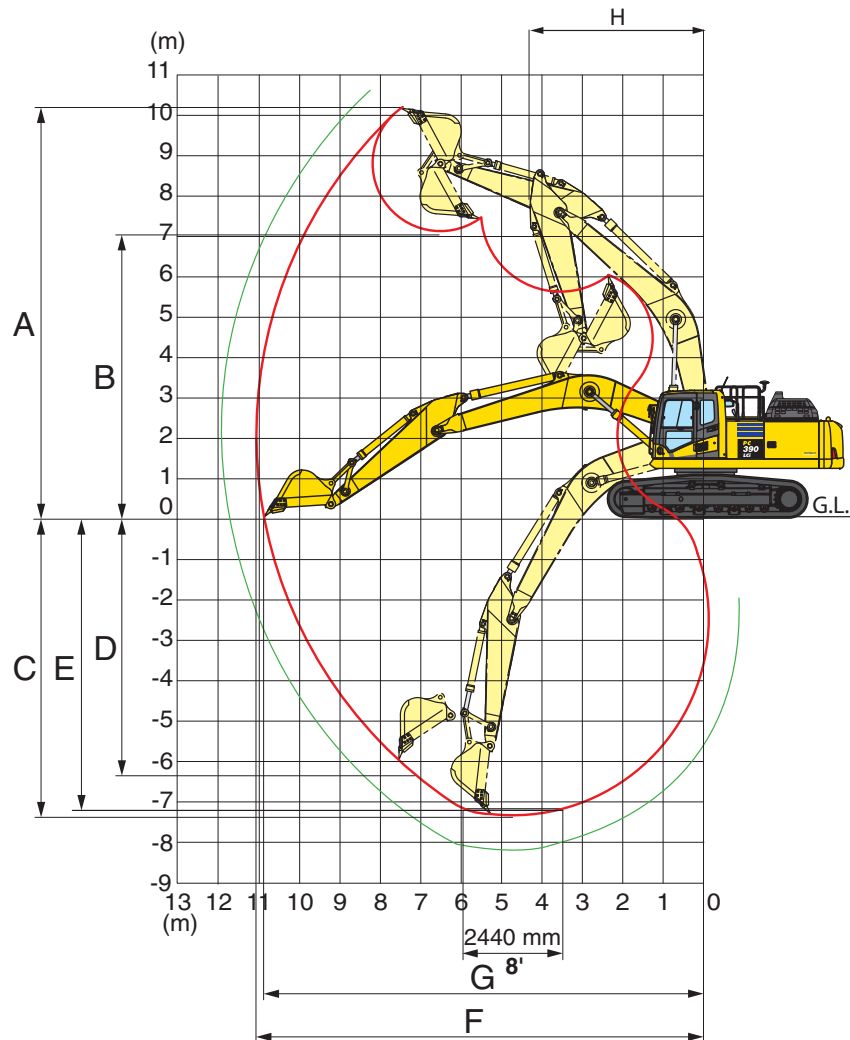
- - Used with material weights up to 3,500 lb/yd³ - Quarry/rock/high abrasion applications
- - Used with material weights up to 3,000 lb/yd³ - Tough digging applications
- - Used with material weights up to 2,500 lb/yd³ - General construction
- ⊙ - Used with material weights up to 2,000 lb/yd³ - Light 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

SPECIFICATIONS



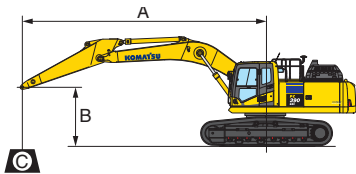
WORKING RANGE



Arm Length		3185 mm	10'5"	4020 mm	13'2"
A	Max. digging height	10260 mm	33'7"	10660 mm	35'0"
B	Max. dumping height	7155 mm	23'6"	7600 mm	24'11"
C	Max. digging depth	7265 mm	23'10"	8100 mm	26'7"
D	Max. vertical wall digging depth	6235 mm	20'6"	7145 mm	23'5"
E	Max. digging depth for 8' level bottom	7100 mm	23'3"	7975 mm	26'2"
F	Max. digging reach	11100 mm	36'5"	11895 mm	39'0"
G	Max. digging reach at ground level	10870 mm	35'8"	11705 mm	38'5"
H	Min. swing radius	4310 mm	14'2"	4320 mm	14'2"
SAE rating	Bucket digging force at power max.	200 kN 20400 kg / 44,970 lb		200 kN 20400 kg / 44,970 lb	
	Arm crowd force at power max.	165 kN 16800 kg / 37,040 lb		139 kN 14200 kg / 31,310 lb	
ISO rating	Bucket digging force at power max.	228 kN 23200 kg / 51,150 lb		227 kN 23100 kg / 50,930 lb	
	Arm crowd force at power max.	171 kN 17400 kg / 38,360 lb		144 kN 14700 kg / 32,410 lb	



LIFTING CAPACITY WITH LIFTING MODE



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 :

- 6500 mm 21' 3" one-piece boom
- Bucket: None
- Lifting mode: On

Arm: 3185 mm 10'5"

Shoes: 800 mm 31.5"

Unit: kg lb

B	3.0 m 10'		4.6 m 15'		6.1 m 20'		7.6 m 25'		9.1 m 30'		MAX	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m 25'											* 7200	* 7200
6.1 m 20'							* 8900	8800			* 15900	* 15900
4.6 m 15'							* 19650	19450			* 7000	* 7000
3.0 m 10'					* 10800	* 10800	* 9400	8650			* 15500	* 15500
1.5 m 5'					* 23850	* 23850	* 20750	19050			* 7100	* 6650
0 m 0'					* 12150	* 11400	* 10050	8400	* 8800	6500	* 15650	* 14750
-1.5 m -5'	* 16350	* 16350	* 16350	* 16350	* 12150	* 11400	* 10050	8400	* 8800	6500	* 7400	* 6300
-3.0 m -10'	* 36150	* 36150	* 26850	* 25200	* 22200	* 18550	* 19450	14400	* 16300	13900	* 17550	* 13650
-4.6 m -15'	* 18250	* 16350	* 13250	* 11000	* 10650	* 8150	* 9000	6400	* 7950	6200	* 8850	* 6300
	* 40250	* 36150	* 29250	* 24300	* 23450	* 18050	* 19850	14150	* 17550	13650	* 19550	* 13950
	* 18500	* 16050	* 13750	* 10750	* 10900	* 8000	* 8900	6350	* 8850	6300	* 8250	* 8250
	* 40800	* 35350	* 30300	* 23700	* 24000	* 17700	* 19600	14000	* 18250	* 18250		
	* 14150	* 14150	* 17600	* 15950	* 13400	* 10650	* 10550	7950	* 8900	6750		
	* 31250	* 31250	* 38850	* 35250	* 29600	* 23450	* 23350	17550	* 19700	14950		
	* 20250	* 20250	* 15650	* 15650	* 12200	* 10700	* 9250	8000	* 8850	7750		
	* 44700	* 44700	* 34550	* 34550	* 26900	* 23600	* 20500	17650	* 19500	17050		
	* 15250	* 15250	* 12250	* 12250	* 9300	* 9300			* 8250	* 8250		
	* 33600	* 33600	* 27000	* 27000	* 20500	* 20500			* 18250	* 18250		

Arm: 3185 mm 10'5"

Shoes: 900 mm 35.5"

Unit: kg lb

B	3.0 m 10'		4.6 m 15'		6.1 m 20'		7.6 m 25'		9.1 m 30'		MAX	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m 25'											* 7200	* 7200
6.1 m 20'							* 8900	8900			* 15900	* 15900
4.6 m 15'							* 19650	19600			* 7000	* 7000
3.0 m 10'					* 10800	* 10800	* 9400	8700			* 15500	* 15500
1.5 m 5'					* 23850	* 23850	* 20750	19250			* 7100	* 6750
0 m 0'					* 12150	* 11550	* 10050	8500	* 8800	6600	* 15650	* 14900
-1.5 m -5'	* 16350	* 16350	* 12150	* 11550	* 10050	8500	* 8800	6600	* 7400	6350		
-3.0 m -10'	* 36150	* 36150	* 26850	* 25450	* 22200	* 18700	* 19450	14550	* 16300	14050		
-4.6 m -15'	* 18250	* 16550	* 13250	* 11100	* 10650	* 8250	* 9000	6450	* 7950	6250		
	* 40250	* 36500	* 29250	* 24550	* 23450	* 18200	* 19850	14300	* 17550	13800		
	* 18500	* 16200	* 13750	* 10850	* 10900	* 8100	* 8900	6400	* 8850	6400		
	* 40800	* 35750	* 30300	* 23950	* 24000	* 17850	* 19600	14150	* 19550	14100		
	* 14150	* 14150	* 17600	* 16150	* 13400	* 10750	* 10550	8000	* 8900	6850		
	* 31250	* 31250	* 38850	* 35600	* 29600	* 23700	* 23350	17700	* 19700	15100		
	* 20250	* 20250	* 15650	* 15650	* 12200	* 10800	* 9250	8100	* 8850	7800		
	* 44700	* 44700	* 34550	* 34550	* 26900	* 23850	* 20500	17850	* 19500	17250		
	* 15250	* 15250	* 12250	* 12250	* 9300	* 9300			* 8250	8250		
	* 33600	* 33600	* 27000	* 27000	* 20500	* 20500			* 18250	18250		

Arm: 4020 mm 13'2"

Shoes: 800 mm 31.5"

Unit: kg lb

B	3.0 m 10'		4.6 m 15'		6.1 m 20'		7.6 m 25'		9.1 m 30'		MAX	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m 25'											* 5600	* 5600
6.1 m 20'							* 7900	* 7900	* 6700	6650	* 12350	* 12350
4.6 m 15'							* 17500	* 17500	* 14850	14700	* 5450	* 5450
3.0 m 10'							* 8500	* 8500	* 7800	6600	* 12050	* 12050
1.5 m 5'							* 18750	* 18750	* 17300	14550	* 5500	* 5500
0 m 0'							* 9250	* 8350	* 8200	6450	* 12100	* 12100
-1.5 m -5'	* 14450	* 14450	* 11050	* 11050	* 10050	8050	* 8500	6250	* 6000	5350		
-3.0 m -10'	* 31850	* 31850	* 24350	* 24350	* 20450	18400	* 18050	14200	* 12500	11850		
-4.6 m -15'	* 16900	* 16350	* 12350	* 10900	* 10000	8050	* 8500	6250	* 6000	5350		
	* 37250	* 36050	* 27250	* 24050	* 22000	17750	* 18800	13850	* 13200	11850		
	* 8550	* 8550	* 17950	* 15700	* 13200	* 10550	* 10450	7800	* 8700	6150	* 6550	* 5450
	* 18900	* 18900	* 39650	* 34650	* 29150	* 23300	* 23050	17250	* 19200	13550	* 14400	* 12050
	* 12750	* 12750	* 17800	* 15450	* 13300	* 10300	* 10500	7650	* 8500	6100	* 7400	* 5750
	* 28150	* 28150	* 39250	* 34150	* 29350	* 22800	* 23150	16950	* 18700	13450	* 16350	* 12750
	* 18300	* 18300	* 16500	* 15500	* 12600	* 10300	* 9850	7650	* 7950	6400		
	* 40350	* 40350	* 36450	* 34200	* 27800	* 22750	* 21750	16900	* 17600	14150		
	* 18650	* 18650	* 14000	* 14000	* 10750	* 10400	* 7900	7800	* 7750	7750		
	* 41150	* 41150	* 30900	* 30900	* 23750	* 22950	* 17400	17250	* 17100	17100		

Arm: 4020 mm 13'2"

Shoes: 900 mm 35.5"

Unit: kg lb

B	3.0 m 10'		4.6 m 15'		6.1 m 20'		7.6 m 25'		9.1 m 30'		MAX	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m 25'											* 5600	* 5600
6.1 m 20'							* 7900	* 7900	* 6700	* 6700	* 12350	* 12350
4.6 m 15'							* 17500	* 17500	* 14850	* 14850	* 5450	* 5450
3.0 m 10'							* 8500	* 8500	* 7800	6650	* 5500	* 5500
1.5 m 5'							* 18750	* 18750	* 17300	14700	* 12100	* 12100
0 m 0'							* 9250	* 8450	* 8200	6500	* 5650	* 5550
-1.5 m -5'	* 14450	* 14450	* 11050	* 11050	* 10050	8150	* 8500	6350	* 6000	5450		
-3.0 m -10'	* 31850	* 31850	* 24350	* 24350	* 20450	18600	* 18050	14350	* 12500	12250		
-4.6 m -15'	* 16900	* 16500	* 12350	* 11000	* 10000	8150	* 8500	6350	* 6000	5450		
	* 37250	* 36400	* 27250	* 24300	* 22000	17950	* 18800	14000	* 13200	12000		
	* 8550	* 8550	* 17950	* 15850	* 13200	* 10650	* 10450	7900	* 8700	6200	* 6550	* 5500
	* 18900	* 18900	* 39650	* 35000	* 29150	* 23550	* 23050	17450	* 19200	13700	* 14400	* 12200
	* 12750	* 12750	* 17800	* 15650	* 13300	* 10450	* 10500	7750	* 8500	6150	* 7400	* 5850
	* 28150	* 28150	* 39250	* 34500	* 29350	* 23000	* 23150	17150	* 18700	13600	* 16350	* 12900
	* 18300	* 18300	* 16500	* 15650	* 12600	* 10400	* 9850	7750	* 7950	6500		
	* 40350	* 40350	* 36450	* 34550	* 27800	* 22950	* 21750	17100	* 17600	14300		
	* 18650	* 18650	* 14000	* 14000	* 10750	* 10500	* 7900	7900	* 7750	7750		
	* 41150	* 41150	* 30900	* 30900	* 23750	* 23200	* 17400	* 17400	* 17100	* 17100		

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.



STANDARD EQUIPMENT

- 3 speed travel with auto shift
- Alternator, 90 Ampere, 24V
- AM/FM radio
- Arm holding valve
- Automatic engine warm-up system
- Automatic climate control/air conditioner/heater/defroster
- Auto idle
- Auto idle shut down, programmable
- Auxiliary input (3.5mm jack)
- Batteries, large capacity (2 x 12V)
- Battery master disconnect switch
- Belt-driven suction fan
- Boom holding valves
- Carrier rollers, (2 each side)
- Converter, (2) x 12V
- Counterweight, 6920 kg **15,255 lb**
- Dry type air cleaner, double element
- Electric fuel priming pump
- Electric horn
- Engine, Komatsu SAA6D114E-6
- Engine coolant to -25°C **-13°F**
- EMMS monitoring system
- Engine overheat prevention system
- Extended work equipment grease interval
- Fan guard structure
- Fuel system pre-filter 10 micron
- Grease sealed track chain
- High back air suspension seat, with heat
- Hydraulic track adjusters
- KOMTRAX® Level 5.0
- Large LCD color monitor, high resolution
- Lock lever
- Mirrors, (LH and RH)
- Operator Protective Top Guard (OPG), Level 1 (ISO 10262)
- Operator identification system
- Pattern change valve (ISO to BH control)
- Power maximizing system
- PPC hydraulic control system
- Pump/engine room partition cover
- Radiator and oil cooler dustproof net
- Rear reflectors
- Rearview monitoring system (1 camera)
- Revolving frame deck guard
- Revolving frame undercovers
- ROPS cab (ISO12117-2)
- Seat belt indicator
- Seat belt, retractable, 76mm **3"**
- Secondary engine shutoff switch
- Service valve
- Skylight
- Slip resistant foot plates
- Starter motor, 11.0kW/24V x 1
- Thermal and fan guards
- Track frame swivel guard
- Track roller guards, center section
- Track rollers, 8 (each side)
- Track shoes, triple grouser, 800mm **31.5"**
- Travel alarm
- Two boom mode settings
- Working lights, 2 (boom and RH front)
- Working mode selection system



OPTIONAL EQUIPMENT

- Arms
 - 3185 mm **10'5"** arm assembly
 - 3185 mm **10'5"** arm assembly with piping
 - 4020 mm **13'2"** arm assembly
- Booms
 - 6500 mm **21'3"** HD boom assembly
 - 6500 mm **21'3"** HD boom assembly with piping
- Cab guards
 - Lower front window guard
 - Full front guard, OPG Level 1
 - Full front guard, OPG Level 2
 - Bolt-on top guard, OPG Level 2
- High pressure in-line hydraulic filters
- Hydraulic control unit, 1 actuator
- Rain visor
- Revolving frame undercovers, heavy duty
- Revolving frame undercovers, severe duty
- Sun visor
- Straight travel pedal
- Track roller guards, full length
- Track shoes, triple grouser, 700 mm **28"**
- Track shoes, triple grouser, 900 mm **35.5"**
- Working lights, front, two additional cab mounted

AESS931-00

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KOMATSU®

Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.

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