





NET HORSEPOWER 359 HP @ 1900 rpm 268 kW @ 1900 rpm **OPERATING WEIGHT** 105,670–107,850 lb 47930–48920 kg

KOMATSU

BUCKET CAPACITY 1.47–4.15 yd³ 1.12–3.17 m³



WALK-AROUND







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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 work 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.

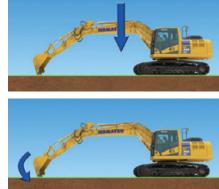
intelligent Machine Control

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

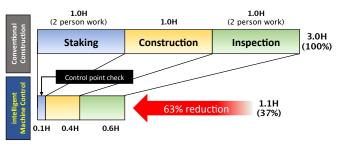
The intelligent Machine Control excavator controls the bucket by automatically selecting the point on the bucket closest to the target surface. Should the machine not be facing a sloped surface at a right angle, it will still follow the target surface and minimize digging below it.



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.
* The above data does not include design time or working data creation time. The above

* The above data does not include design time or working data creation time. The above data are based on in-house construction tests whose conditions may differ from actual construction.



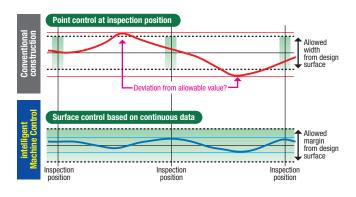
Comparison of slope shaping work



Improved Work Accuracy

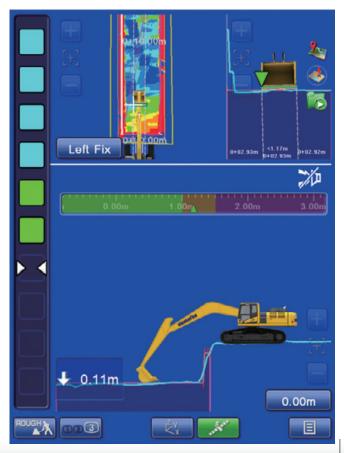
The bucket edge/tip position is instantly displayed on the control box, eliminating the wait time for display on the monitor during construction. The large and easy-to-view control box displays information clearly, aiding in highly accurate work. With manual operation and conventional machine guidance,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

Realistic 3D display

The machine and design surfaces are shown in realistic 3D. The angle and magnification of the views can be changed, which allows the operator to select the optimum view depending on the work conditions.



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.

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.

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.









Factory installed Komatsu intelligent Machine Control components



TOPCON Sitelink 3D Enterprise

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



Transmission of design data from office to machine





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



Sending messages from office to machine or vice versa

Remote assistance function enables troubleshooting from anywhere via the internet.

PERFORMANCE FEATURES

KOMATSU NEW ENGINE TECHNOLOGIES

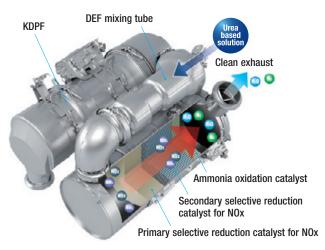
New Tier 4 Final Engine

The Komatsu SAA6D125E-7 engine is EPA Tier 4 Final emissions certified and provides exceptional performance while reducing fuel consumption. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces nitrogen oxides (NOx) by more than 80% when compared to Tier 4 interim levels. Through the in-house development and production of engines, electronics, and hydraulic components, Komatsu has achieved great advancements in technology, providing high levels of performance and efficiency in virtually all applications.

Technologies Applied to New Engine

Heavy-duty aftertreatment system

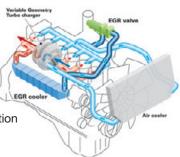
This new system combines a Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR). The SCR NOx reduction system injects the correct amount of Diesel Exhaust Fluid (DEF) at the proper rate, thereby decomposing NOx into non-toxic water vapor (H₂O) and nitrogen gas (N₂).

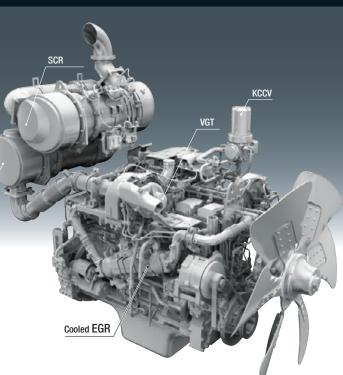


Heavy-duty cooled Exhaust Gas Recirculation (EGR) system

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 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.



intelligent

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

levels.

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

PERFORMANCE FEATURES

Enhanced Productivity

The PC490LCi-11's enhanced P Mode provides more hydraulic flow and increases productivity.

Productivity

Up to 13% increase

KOMI

(compared to the PC490LC-10 in standard P Mode)

P mode (90° swing and loading onto truck)

- 1 Large counterweight
- 2 High capacity swing bearing
- 3 Reinforced track links and shoes
- 4 Large final drive
- 5 HD sprockets
- Beinforced center frame
 HD carrier rollers and idlers
 - Reinforced crawler frames
- Reinforced revolving frame
- Track roller guards
- 11 Deck guard
- 12 Center frame swivel guard

Increased Work Efficiency

Large digging force

With the one-touch Power Max. function digging force has been further increased. (8.5 seconds of operation)

Maximum arm crowd force (ISO)

200 kN(20.4t)	(with Power Max.)	7	0/
	(with Power Max.)		70 UP

Maximum bucket digging force (ISO)

256 kN(26.1t)	(with Power Max.)	7	'% UP
	(with Fower Wax.)	_	

Measured with Power Max. function, 3380 mm arm and ISO rating

Faster arm cycle speeds

6

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

Two boom mode settings for boom function

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

•





Hydraulic Variable Speed Fan

The electronic control system sets the rotation speed of the cooling fan according to the coolant, hydraulic oil, and ambient temperatures; effectively uses the engine output to reduce wasteful fuel consumption; and reduces noise during low-speed fan operation.



Drawbar Pull

The Komatsu designed final drives and undercarriage provide high drawbar pull for good maneuverability and performance when working on adverse grades or soft ground.



Large Displacement High Efficiency Pump

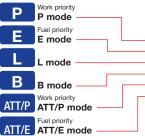
Large displacement hydraulic implement pumps provide high flow output at lower engine RPM as well as operation at the most efficient engine speed.



Working Mode Selection

The PC490LCi-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 PC490LCi-11 features an attachment mode (ATT/E) that allows operators to run attachments while in Economy mode.

Working Mode	Application	Advantage
Р	Power mode	•Maximum production/power •Fast cycle times
E	Economy mode	•Good cycle times •Better fuel economy
L	Lifting mode	 Increases hydraulic pressure
В	Breaker mode	•Optimum engine rpm, hydraulic flow
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





High Rigidity Work Equipment

Booms and arms are 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. The result is work equipment that exhibits long term durability and high resistance to bending and torsional stress. A standard HD boom design provides increased strength and reliability.



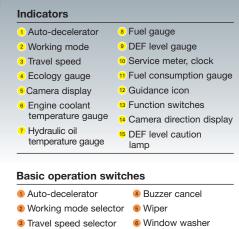
WORKING ENVIRONMENT



LARGE HIGH RESOLUTION LCD MONITOR

New Monitor Panel Interface Design

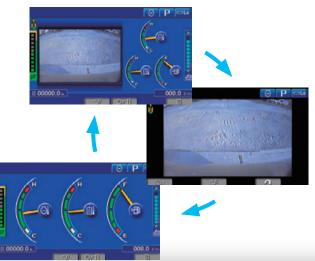
An updated large high resolution LCD color monitor enables accurate and smooth work. The interface has been redesigned to display key machine information in a new user friendly interface. A rear view camera and a DEF level gauge display have been added to the default main screen. The interface has a function that enables the main screen mode to be switched, thus enabling the optimum screen information for the particular work situation to be displayed.



Auto climate controls

Switchable Display Modes

The main screen display mode can be changed by pressing the F3 key.



Visual user menu

Pressing the F6 key on the main screen displays the user menu screen. The menus are grouped for each function, and use easy-to-understand icons which enable the machine to be operated easily.

	67	
Waintenance	Interval	Remain
Air Cleaner Cleaning / Change	-]
🙆 Engine Oil Change	500 h	488 h
🙍 Engine Oil Filter Change	500 h	488 h
🕂 Fuel Nain Filter Change	1000 h	988 h
👽 🥂 Fuel Pre Filter Change	500 h	488 h
	าก	
	v	





Support Efficiency Improvement

Ecology guidance

While the machine is operating, ecology guidance pops up on the monitor screen to notify the operator of the status of the machine in real time.

Ecology gauge & fuel consumption gauge

The monitor screen is provided with an ecology gauge and also

a fuel consumption gauge which is displayed continuously. In addition, the operator can set any desired target value of fuel consumption (within the range of the green display), enabling the machine to be operated with better fuel economy.

Operation record, fuel consumption history, and ecology guidance record

The ecology guidance menu enables the operator to check the operation record, fuel consumption history and ecology guidance record from the ecology guidance menu, using a single touch, thus assisting operators with reducing total fuel consumption.

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Operation record

Ecology guidance record

Operator Identification Function

An operator identification ID can be set up for each operator, and used to manage operation information of individual machines using KOMTRAX data. Data sent from KOMTRAX can be used to analyze operation status by operator as well as by machine.



Photo many include optional equipment -PC490LC-11 Shown

WORKING ENVIRONMENT



Comfortable Working Space

Wide spacious cab

The wide spacious cab includes a heated air suspension seat with reclining backrest. The seat height and position are easily adjusted using a pull-up lever. The armrest position is easily adjusted together with the console. Reclining the seat further enables it to be fully laid back with the headrest attached.

Arm rest with simple height adjustment function

A knob and plunger on the armrests allows easy height adjustment 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 stereo speakers installed in the cab.



Photo may include optional equipment. PC210LCi-11 shown.

Standard Equipment

Sliding window glass (left side)



Remote intermittent wiper with windshield washer



Opening & closing skylight



Defroster (conforms to the ISO standard)



Lockout Tagout Ready



Tie Off Points Standard (ISO 14567)



Magazine box & cup holder



One-touch storable front window lower glass



PC490LCi-11

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.



Battery disconnect switch

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



Cab air filter Washable cab floormat Sloping track frame

Easy cleaning of cooling unit

Reverse-rotation function of the hydraulic driven fan facilitates cleaning of the cooling unit.

Fuel pre-filter with water separator

Electric fuel priming pump

High efficiency fuel filter with water separator

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



MAINTENANCE FEATURES

Long-life oils, filters

Engine oil &

Hydraulic oil

Engine oil filter

Hydraulic oil filter

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)

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.



Manual Stationary 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.

	0001 10101 1110100
	комлтя
1.150	Ø .X4=>44 (m) (B)
	Attertrephen Invites Animeration CO 111111
	Reperention Disable
	annal Stationary Represention
0 <u>1</u>	Adamatics regeneration in program.
0.0	

Aftertreatment device regeneration screen

Soot level indicator

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

Large capacity air cleaner

Large capacity air cleaner is comparable to that of larger

every 500 hours

every 5000 hours

every 1000 hours

machines. 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.



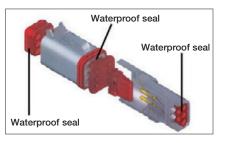
Diesel Exhaust Fluid (DEF) tank

A large tank volume extends operating time before refilling and is installed on the right front stairway for ease of access.



DT-type connectors

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



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

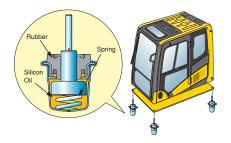


Rear view image on monitor



Low Vibration with Viscous Cab Mounts

The PC490LCi-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.



Left and right side hand rails



Seat belt caution indicator



Lock lever

- Seat belt retractable
- Tempered & tinted glass
- Large mirrors
- **Slip-resistant plates**
- Thermal and fan guards
- Pump/engine room partition
- Travel alarm
- Large cab entrance step



KOMATSU PARTS & SERVICE SUPPORT



Program Includes:

*The PC490LCi-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 KDPF Exchanges

The PC490LCi-11 comes standard with 2 Complimentary KDPF Exchange units for the first 5 Years or 9000 hours whichever comes first. The suggested KDPF Exchange unit service intervals are 4500 hours & 9000 hours. End user must have authorized Komatsu distributor perform the removal & installation of the KDPF.

Complimentary SCR Maintenance

The PC490LCi-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	\checkmark	\checkmark	\checkmark	\checkmark
LUBRICATE SWING CIRCLE	\checkmark	\checkmark	\checkmark	\checkmark
CHECK SWING PINION GREASE LEVEL AND ADD, WHEN NECESSARY	~	✓	~	✓
CHANGE ENGINE OIL	\checkmark	\checkmark	\checkmark	\checkmark
REPLACE ENGINE OIL FILTER	\checkmark	\checkmark	\checkmark	\checkmark
REPLACE FUEL PRE-FILTER	\checkmark	\checkmark	\checkmark	\checkmark
REPLACE AC FRESH & RECIRC AIR FILTERS	\checkmark	\checkmark	\checkmark	\checkmark
CLEAN AIR CLEANER ELEMENT	\checkmark	\checkmark	\checkmark	\checkmark
DRAIN SEDIMENT FROM FUEL TANK	~	\checkmark	\checkmark	\checkmark
COMPLETE 50 POINT INSPECTION FORM; LEAVE PINK COPY WITH CUSTOMER OR IN CAB	✓	✓	✓	✓
RESET MONITOR PANEL MAINTENANCE COUNTER FOR APPROPRIATE ITEMS	~	✓	1	✓
REPLACE HYDRAULIC TANK BREATHER ELEMENT		\checkmark		\checkmark
CHECK OIL LEVEL IN DAMPER CASE, ADD WHEN NECESSARY		✓		✓
REPLACE MAIN FUEL FILTER		\checkmark		\checkmark
REPLACE HYDRAULIC OIL FILTER ELEMENT		\checkmark		\checkmark
REPLACE AdBlue®/DEF TANK BREATHER ELEMENT		\checkmark		\checkmark
REPLACE ADDITIONAL HYDRAULIC OIL FILTER ELEMENT		✓		✓
CHANGE SWING MACHINERY OIL		\checkmark		\checkmark
CLEAN HYDRAULIC TANK STRAINER (REPLACE O-RING)				\checkmark
REPLACE KCCV FILTER ELEMENT				\checkmark
REPLACE AdBlue®/DEF FILTER ELEMENT				\checkmark
CHANGE FINAL DRIVE OIL				\checkmark
FACTORY TRAINED TECHNICIAN LABOR	\checkmark	\checkmark	\checkmark	\checkmark
2 KDPF Exchanges at 4,500 Hrs and 9,000 Hrs.				
2 SCR System Maintenance Services at 4,500 Hrs. and 900	00 Hr	s.		

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 2018 Komatsu America Corp.

KOMTRAX EQUIPMENT MONITORING



- 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



 KOMTRAX is standard equipment on all Komatsu construction products



- 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

KOMATSU





- 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

Photo many include optional equipment.





For construction and compact equipment.

SPECIFICATIONS

2					
1¢	E	N	G		

ModelWater- TypeWater- AspirationVa	cooled, 4-cycle, direct injection
Number of cylinders	
Bore	125 mm 4.92"
Stroke	
Piston displacement	11.04 ltr 674 in³
ISO 9249 / SAE J1349	Gross 270 kW 362 HP Net 268 kW 359 HP 1900
Governor Fan drive method for radiator co	,

*EPA Tier 4 Final emissions certified

W HYDRAULICS

Type .. HydrauMind (Hydraulic Mechanical Intelligence) system, closed-center system with

load sensing valve and pressure compensated valves, 6 selectable working modes

Main pump:

Pumps for......Boom, arm, bucket, swing, and travel circuits Type.....Variable displacement axial piston type Maximum flow......780 ltr/min **206 gal/min**

Hydraulic motors:

Relief valve setting:

Implement circuits	37.3 MPa 380 kgf/cm ² 5,400 psi
Travel circuit	37.3 MPa 380 kgf/cm ² 5,400 psi
	27.9 MPa 285 kgf/cm ² 4,050 psi
Pilot circuit	3.2 MPa 33 kgf/cm ² 470 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 lever with pedals
Drive method	Hydrostatic
Maximum drawbar pull	329 kN 33510 kgf 73,880 lbf
Gradeability	
Maximum travel speed (auto shift	:):
High Mid Low	5.5 km/h 3.4 mph 4.2 km/h 2.6 mph 3.0 km/h 1.9 mph
Service brake	Hydraulic lock
Parking brake	Mechanical disc

SWING SYSTEM

Driven by	Hydraulic motor
Swing reduction	Planetary gear
Swing circle lubrication	Grease-bathed
Service brake	Hydraulic lock
Holding brake/Swing lock	Mechanical disc brake
Swing speed	9.0 rpm
Swing torque	13414 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)	



Fuel tank	650 ltr 172 U.S. gal
Radiator	47.0 ltr 12.4 U.S. gal
Engine	38 ltr 10.0 U.S. gal
Final drive, each side	11.0 ltr 2.9 U.S. gal
Swing drive	20.0 ltr 5.3 U.S. gal
Hydraulic tank	. 248 ltr 65.5 U.S. gal
Diesel Exhaust Fluid (DEF) tank	39 ltr 10.3 U.S. gal

Operating weight includes 7060 mm **23'2"** one-piece HD boom, 3380 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	Fixed Gauge							
Shoes	Operating Weight	Ground Pressure						
700 mm 28''	47930 kg 105,670 lb	0.73 kg/cm ² 10.38 psi						
800 mm	48430 kg	0.65 kg/cm ²						
31.5"	106,770 lb	9.20 psi						
900 mm 35.5"	48920 kg 107,850 lb	0.58 kg/cm ² 8.32 psi						

V working forces

	Arm Length	3380 mm 11'1"	4000 mm 13'1"
ĝ	Bucket	275 kN	275 kN
ISO rating	digging force	28000 kgf / 61,730 lb	28000 kgf / 61,730 lb
5	Arm	214 kN	190 kN
S	crowd force	21800 kgf / 48,060 lb	19400 kgf / 42,770 lb
bu	Bucket	239 kN	239 kN
rating	digging force	24400 kgf / 53,790 lb	24400 kgf / 53,790 lb
SAE	Arm	205 kN	184 kN
S	crowd force	20900 kgf / 46,080 lb	18800 kgf / 41,450 lb

Component Weights

Arm including bucket cylinder and linkage	
3380 mm 11'1" arm assembly 2141 kg	4,720 lb
4000 mm 13'1" arm assembly 2408 kg	5,309 lb
One piece HD boom including arm cylinder	
7060 mm 23'2" boom asssembly 4017 kg	8,856 lb
Boom cylinders x 2	807 lb
Counterweight (standard) 9573 kg	21,105 lb
2.25 m ³ 2.94 yd ³ bucket - 54" width 1867 kg	4,117 lb



DIMENSIONS

	Arm Length	3380 mm	11'1"	4000 mm	13'1"
Α	Overall length	11930 mm	39'2"	11950 mm	39'2"
В	Length on ground (transport)	6660 mm	21'10"	6330 mm	20'9"
C	Overall height (to top of boom)*	3635 mm	11'11"	3885 mm	12'9"
D	Overall width	3640 mm	11'11"		
Е	Overall height (to top of cab)*	3360 mm	11'0"		
F	Overall height (to top of handrail)*	3630 mm	11'11"		
G	Overall height (to top of GNSS Antenna)*	3705 mm	12'2"		
Н	Ground clearance, counterweight	1385 mm	4'7"		
Т	Ground clearance, minimum	700 mm	2'4"		
J	Tail swing radius	3645 mm	12'0"		
K	Track length on ground	4350 mm	14'3"		Q ,
L	Track length	5385 mm	17'8"		
М	Track gauge	2740 mm	9'0"		
	700 mm 28"	3440 mm	11'2"		
Ν	Width of crawler 800 mm 31.5"	3540 mm	11'6"		
	900 mm 35.5"	3640 mm	11'11"		
0	Shoe width	900 mm	35.5"		
Ρ	Grouser height	37 mm	1.5"		м
Q	Machine upper width **	3145 mm	10'4"		N .
R	Distance, swing center to rear end	3605 mm	11'10"	ļ	D

*: Including grouser height **: Including handrail

BACKHOE BUCKET, ARM AND BOOM COMBINATION

Bucket											
Туре	Capa	acity	Teeth	Wid	th	We	ight	Tip Ra	dius	3.4 m (11'1")	4.0 m (13'1")
Komatsu TL	1.12 m ³ 1.35 m ³ 1.64 m ³ 1.94 m ³ 2.25 m ³ 2.55 m ³ 2.87 m ³ 3.17 m ³	1.47 yd ³ 1.76 yd ³ 2.15 yd ³ 2.54 yd ³ 2.94 yd ³ 3.34 yd ³ 3.75 yd ³ 4.15 yd ³	3 4 5 6 7 7	762 mm 914 mm 1067 mm 1219 mm 1372 mm 1524 mm 1676 mm 1829 mm	30" 36" 42" 48" 54" 60" 66" 72"	1287 kg 1441 kg 1561 kg 1714 kg 1867 kg 1988 kg 2141 kg 2261 kg	2838 lb 3176 lb 3442 lb 3779 lb 4117 lb 4382 lb 4720 lb 4985 lb	1826 mm 1826 mm 1826 mm 1826 mm 1826 mm 1826 mm 1826 mm 1826 mm	72" 72" 72" 72" 72" 72" 72" 72"		
Komatsu HP	1.12 m ³ 1.35 m ³ 1.64 m ³ 1.94 m ³ 2.25 m ³ 2.55 m ³ 2.87 m ³ 3.17 m ³	1.47 yd ³ 1.76 yd ³ 2.15 yd ³ 2.54 yd ³ 2.94 yd ³ 3.34 yd ³ 3.75 yd ³ 4.15 yd ³	3 4 5 6 7 7	762 mm 914 mm 1067 mm 1219 mm 1372 mm 1524 mm 1676 mm 1829 mm	30" 36" 42" 48" 54" 60" 66" 72"	1508 kg 1663 kg 1835 kg 1978 kg 2151 kg 2293 kg 2466 kg 2609 kg	4985 lb 3324 lb 3667 lb 4046 lb 4360 lb 4741 lb 5056 lb 5437 lb 5752 lb	1826 mm 1826 mm 1826 mm 1826 mm 1826 mm 1826 mm 1826 mm 1826 mm	72" 72" 72" 72" 72" 72" 72" 72" 72"		• • • • • • • • • • • • • • • • • • •
Komatsu HPS	1.12 m ³ 1.35 m ³ 1.64 m ³ 1.94 m ³ 2.25 m ³ 2.55 m ³ 2.87 m ³	1.47 yd ³ 1.76 yd ³ 2.15 yd ³ 2.54 yd ³ 2.94 yd ³ 3.34 yd ³ 3.75 yd ³	3 4 5 6 6 7	762 mm 914 mm 1067 mm 1219 mm 1372 mm 1524 mm 1676 mm	30" 36" 42" 48" 54" 60" 66"	1632 kg 1806 kg 2003 kg 2172 kg 2371 kg 2540 kg 2739 kg	3597 lb 3981 lb 4416 lb 4789 lb 5228 lb 5600 lb 6039 lb	1826 mm 1826 mm 1826 mm 1826 mm 1826 mm 1826 mm 1826 mm	72" 72" 72" 72" 72" 72" 72" 72"		• • • • • • • • •
Komatsu HPX	1.12 m ³ 1.35 m ³ 1.64 m ³ 1.94 m ³ 2.25 m ³ 2.55 m ³ 2.87 m ³	1.47 yd ³ 1.76 yd ³ 2.15 yd ³ 2.54 yd ³ 2.94 yd ³ 3.34 yd ³ 3.75 yd ³	3 4 5 6 7	762 mm 914 mm 1067 mm 1219 mm 1372 mm 1524 mm 1676 mm	30" 36" 42" 48" 54" 60" 66"	1759 kg 1933 kg 2130 kg 2299 kg 2498 kg 2667 kg 2866 kg	3877 lb 4261 lb 4696 lb 5069 lb 5508 lb 5880 lb 6319 lb	1826 mm 1826 mm 1826 mm 1826 mm 1826 mm 1826 mm 1826 mm	72" 72" 72" 72" 72" 72" 72"	• • • • •	• • · · · · · · · · · · · · · · · ·

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

• 3350 kg 7,385 lb maximum for 3380 mm 11' 1" standard arm assembly

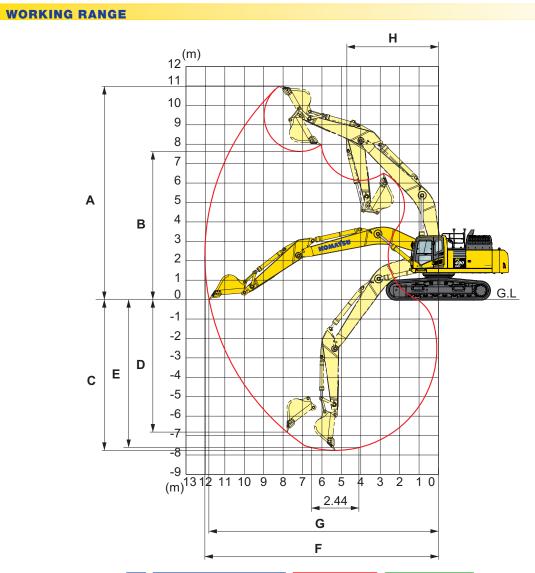
• 3200 kg 7,054 lb maximum for 4000 mm 13' 1" standard arm assembly

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

● - Used with material weights up to 3,500 lb/yd³ - Quarry/rock/high abrasion applications
□ - Used with material weights up to 2,500 lb/yd³ - General construction

O - Used with material weights up to 3,000 lb/yd3 - Tough digging applications

SPECIFICATIONS

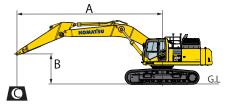


	Arm Length	3380 mm	11'1"	4000 mm	13'1"		
Α	Max. digging height	10980 mm	36'0"	11090 mm	36'5"		
В	Max. dumping height	7630 mm	25'0"	7780 mm	25'6"		
C	Max. digging depth	7755 mm	25'5"	8380 mm	27'6"		
D	Max. vertical wall digging depth	6805 mm	22'4"	7220 mm	23'8"		
Е	Max. digging depth for 8' level bottom	7615 mm	25'0"	8250 mm	27'0"		
F	Max. digging reach	12030 mm	39'6"	12565 mm	41'3"		
G	Max. digging reach at ground level	11810 mm	38'9"	12365 mm	40'7"		
Н	Min. swing radius	4735 mm	15'6"	4800 mm	15'9"		
SAE rating	Bucket digging force at power max.	239 kN 24,400 kg / 5 3	-	239 kN 24,400 kg / 5 3	-		
SAE	Arm crowd force at power max.	205 kN 20900 kg / 46	-	184 kN 18800 kg / 41	-		
ISO rating	Bucket digging force at power max.	275 kN 28000 kg / 61	-	275 kN 28000 kg / 61,730 lb			
ISO ra	Arm crowd force at power max.	214 kN 21800 kg / 48	-	190 kN 19400 kg / 42	-		



LIFT CAPACITIES





- 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: 7060 mm 23' 2"
- Bucket: None
- Undercarriage: Fixed Gauge
- Lifting mode: On

Arm: 3380	mm 11'1"							Bu	cket: Nor	ne				Shoes	: 900 mm 3	5.5	" triple gr	ouser			Ur	nit: kg Ib
A	МАХ		3.0	m	10'	4.6 m 15'			15'	6.1 m 20'			7.6 m 25'			9.1 m 30'			🔁 MAX			
В			Cf		Cs		Cf		Cs		Cf	Cs		Cf	Cs		Cf	Cs		Cf		Cs
9.1 m 30'	7.5 m 24'																		*	9700 21300	*	9700 21300
7.6 m 25'	8.6 m 28'													11720 25800	11460 25200				*	9200 20200		9200 20200
6.1 m 20'	9.4 m 31'													12230 26900	11270 24800	*	11430 25200	8590 18900	*	9070 20000		8190 18000
4.6 m 15'	9.9 m 33'						20080 44200	*	20080 44200		15510 34200	15000 33000		10100	10950 24100	*	11770 25900	8460 18600	*	9210 20300		7500 16500
3.0 m 10'	10.1 m 33'						24120 53100		21240 46800	*	17470 38500	14300 31500		14130	10590 23300	*	12260 27000	8270 18200	*	9580 21100		7150 15700
1.5 m 5'	10.1 m 33'					*	19210 42300	*	19210 42300	*	18890 41600	13740 30300		10020	10270 22600		12460 27400	8090 17800	*	10240 22500		7050 15500
0 m 0'	9.9 m 33'						21790 48000		20000 44100	*	19390 42700	13410 29500	*	10000	10040 22100		12320 27100	7970 17500		11050 24300		7190 15800
-1.5 m -5'	9.4 m 31'	*	15850 34900	*	15850 34900	*	24430 53800		19990 44000	*	18910 41600	13290 29300		15080 33200	9940 21900	*	12170 26800	7930 17400	*	11600 25500		7640 16800
-3.0 m -10'	8.7 m 28'	*	24660 54300	*	24660 54300	*	21940 48300		20160 44400	*	17370 38300	13340 29400		13810 30400	9980 22000					11490 25300		8560 18800
-4.6 m -15'	7.5 m 25'	*	21900 48200	*	21900 48200	*	17970 39600		17970 39600		14350 31600	13570 29900								10930 24100		10450 23000

Arm: 4000 mm 13'1"		Bucket: Non	е	Shoes: 900 mm 35	Unit: kg Ib			
A	3.0 m 10'	4.6 m 15'	6.1 m 20'	7.6 m 25'	9.1 m 30'	MAX 😫		
B MAX	Cf Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs		
9.1 m 8.2 m 30 ' 27'						* 8240 * 8240 * 18100 * 18100		
7.6 m 9.3 m 25' 30'					* 8750 8670 * 19200 19100	* 7890 * 7890 * 17400 * 17400		
6.1 m 10.0 m 20 ' 33'				11000 11000	* 10650 8610 * 23400 18900	* 7810 7470 * 17200 16400		
4.6 m 10.5 m 15' 34'			* 14350 * 14350 * 31600 * 31600	12000 10000	* 11120 8440 * 24500 18600	* 7930 6890 * 17400 15100		
3.0 m 10.7 m 10' 35'		* 22270 21570 * 49100 47500			* 11710 8210 * 25800 18100	* 8230 6570 * 18100 14400		
1.5 m 10.7 m 5' 35'		* 25080 20330 * 55300 44800	* 18130 13700 * 39900 30200	14470 10100	* 12240 7990 * 26900 17600	* 8760 6470 * 19300 14200		
0 m 10.5 m 0' 34'		* 23770 19770 * 52400 43500	* 19010 13260 * 41900 29200	* 15050 9900 * 33100 21800	12190 7820 26800 17200	* 9590 6570 * 21100 14400		
-1.5 m 10.0 m -5' 33'	* 15460 * 15460 * 34100 * 34100	* 25010 19610 * 55100 43200	* 18940 13050 * 41700 28700	* 15040 9740 * 33100 21400	12090 7730 26600 17000	10720 6920 23600 15200		
-3.0 m 9.3 m -10' 30'		* 23040 19700 * 50800 43400		14220 0120	* 11220 7760 * 24700 17100	* 10930 7640 * 24100 16800		
-4.6 m 8.2 m -15' 27'		* 19730 * 19730 * 43500 * 43500		* 12100 9870 * 26600 21700		* 10700 9040 * 23600 19900		
-6.1 m 6.6 m -20' 22'		* 14280 * 14280 * 31400 * 31400	* 10970 * 10970 * 24100 * 24100			* 9670 * 9670 * 21300 * 21300		

*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.

S STANDARD EQUIPMENT

- 3 speed travel with auto shift
- Alternator, 90 Ampere, 24V
- AM/FM radio
- Arm holding valve
- Automatic engine warm-up systemAutomatic 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
- Boom holding valves
- Carrier rollers, (2 each side)
- Converter, (2) x 12V
- Counterweight, 9573 kg **21,105 lb**
- Dry type air cleaner, double element
- Electric horn

7*1*–12706665

- Engine, Komatsu SAA6D125E-7
- Engine coolant to -25°C -13°F
- EMMS monitoring system
- Engine overheat prevention system

Extended work equipment grease interval

- Fan guard structure
- Fuel priming pump, 24V
- Fuel system pre-filter 10 micron
- Grease sealed track chain
- High back air suspension seat, with heat
- Hydraulic cooling fan (reversible)
- 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
- 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
- Suction fan
- Thermal and fan guards
- Track frame swivel guard
- Track roller guards, center section
- Track rollers, 8 (each side)
- Track shoes, triple grouser, 700mm 28"
- Travel alarm
- Two boom mode settings
- Working lights, 2 (boom and RH front)
- Working mode selection system

- OPTIONAL EQUIPMENT
- Arms
 - 3380 mm **11'1"** arm assembly
 - 3380 mm 11'1" arm assembly with piping
- 4000 mm **13'1"** arm assemblyBooms
 - 7000 mm 23'2" HD boom assembly
 7000 mm 23'2" 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
- Counterweight removal system
- High altitude arrangement
- 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, 800 mm 31.5"
- Track shoes, triple grouser, 900 mm 35.5"
- Working lights, front, two additional cab mounted

* ATTACHMENT OPTIONS

- Hydraulic couplers
- Hydraulic kits, field installed
- Load hold, anti-burst valves

For a complete list of available attachments, please contact your local Komatsu distributor.

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AESS885-02

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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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