

KOMATSU®

PC360LCi-11

Tier 4 Final Engine

HYDRAULIC EXCAVATOR



Photo may include optional equipment.
PC360LC-11 Shown.

NET HORSEPOWER

257 HP @ 1950 rpm
192 kW @ 1950 rpm

OPERATING WEIGHT

78,484–79,807 lb
35600–36200 kg

BUCKET CAPACITY

0.89–2.56 yd³
0.68–1.96 m³

PC360LCi

intelligent
MACHINE CONTROL

WALK-AROUND



NET HORSEPOWER

257 HP @ 1950 rpm
192 kW @ 1950 rpm

OPERATING WEIGHT

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35600–36200 kg

BUCKET CAPACITY

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0.68–1.96 m³

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PC360LC-11 Shown.

PC360LC-11

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

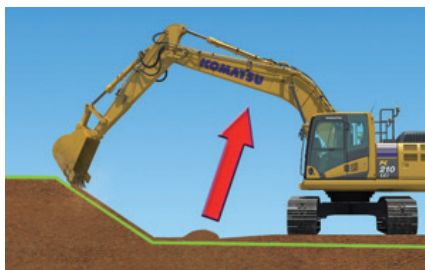


Photo may include optional equipment.

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 expanded 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

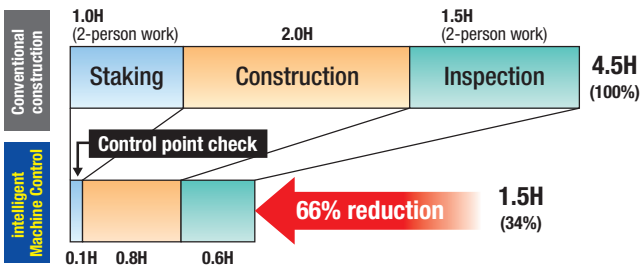
The intelligent Machine Control excavator controls the bucket by automatically selecting the point on the bucket closest to the target surface. Should the machine not be facing a sloped surface at a right angle, it will still follow the target surface and minimize digging below it.



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 data is based on in-house construction tests, performed by Komatsu, whose conditions may differ from actual construction.



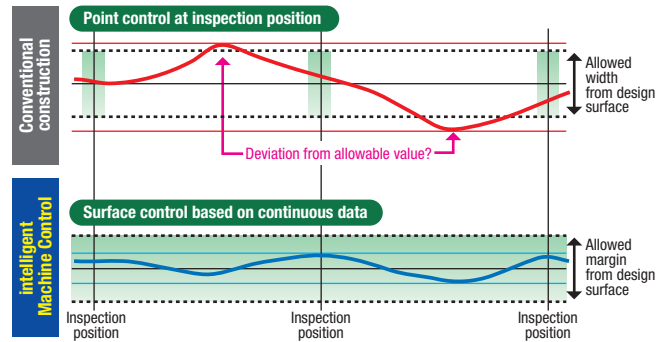
Comparison of Slope Shaping Work

Conventional construction	Intelligent Machine Control
Shaping with reference to finishing stakes	Reduces staking work and the number of assistant workers.

Improved Work Accuracy

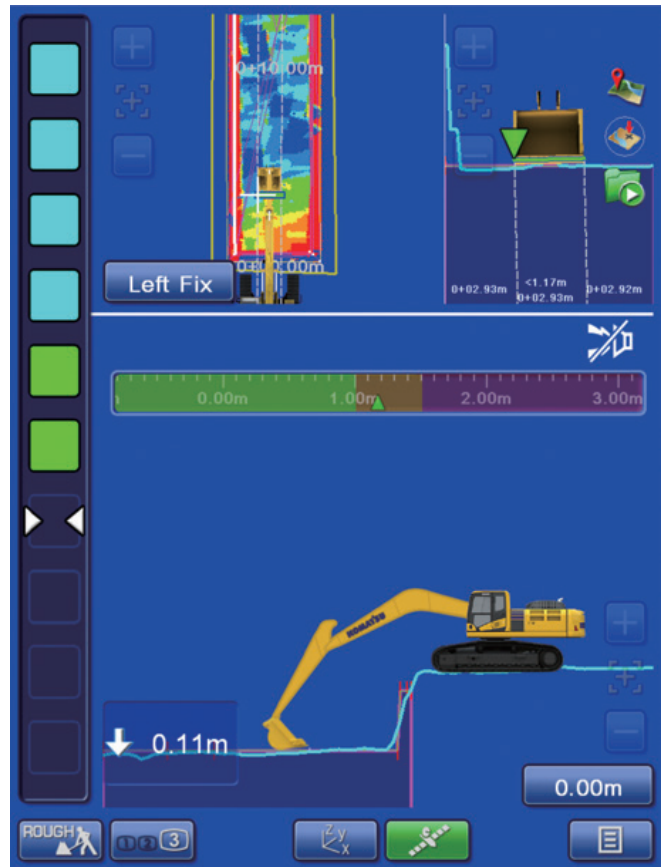
The bucket edge/tip position is instantly displayed on the control box, eliminating the wait time for display on the monitor during construction. The large and easy-to-view control box displays information clearly, aiding in highly accurate work. With manual operation and conventional machine guidance,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

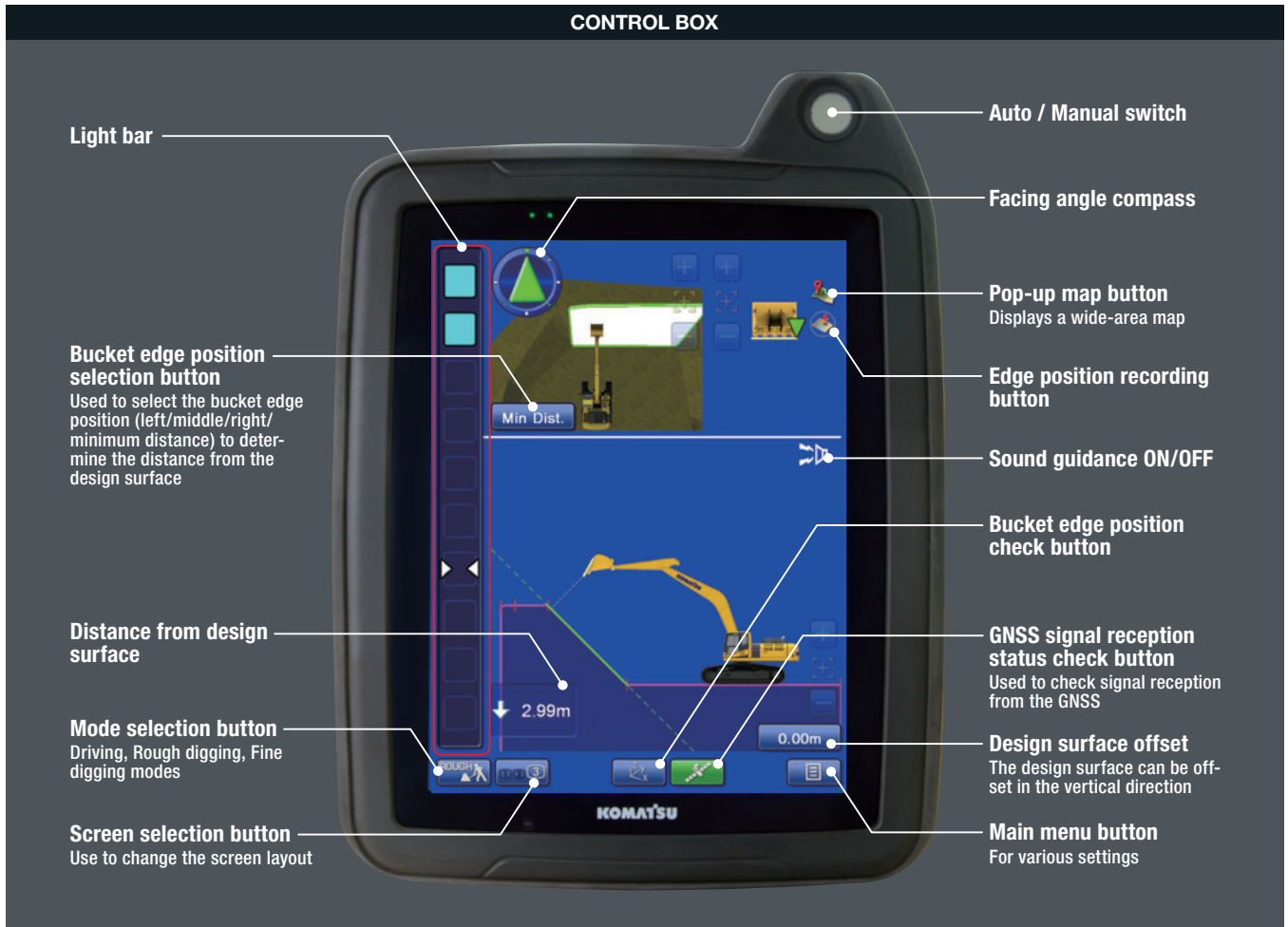


As-Built Surface Track Mapping

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.

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.



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

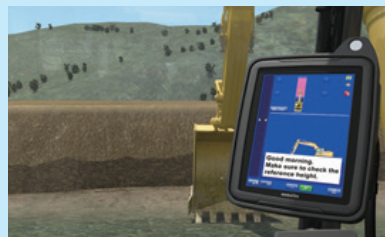


TOPCON Sitelink 3D Enterprise

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



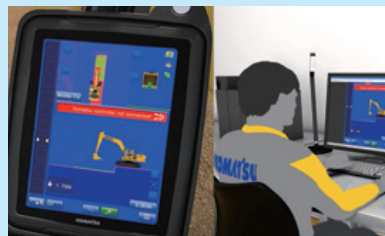
Transmission of design data from office to machine



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 afar via the internet.

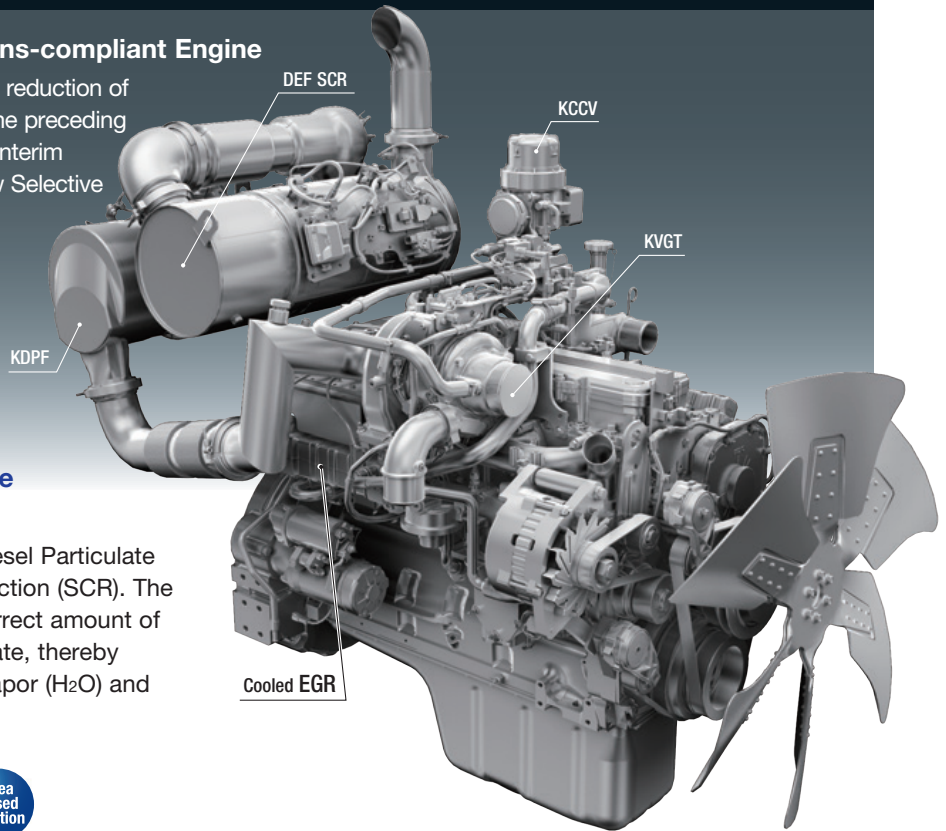
Please contact your local Topcon dealer for details.

PERFORMANCE FEATURES

KOMATSU'S NEW ENGINE TECHNOLOGIES

Komatsu's New Emission Regulations-compliant Engine

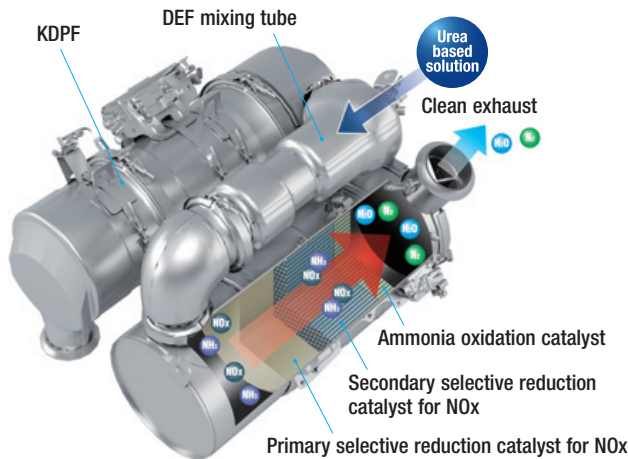
New regulations effective in 2014 require the reduction of NOx emissions to one tenth or below from the preceding regulations. In addition to refining the Tier 4 Interim technologies, Komatsu has developed a new Selective Catalytic Reduction (SCR) device in-house.



Technologies Applied to New Engine

Heavy-duty aftertreatment system

This new system combines a 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).



Advanced Electronic Control System

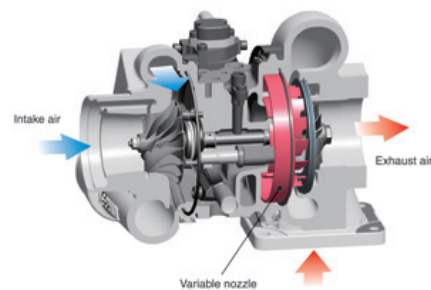
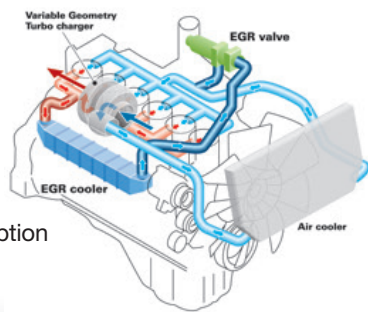
The electronic control system performs high-speed processing of all signals from sensors installed in the vehicle providing total control of equipment in all conditions of use. Engine condition information is displayed via an on-board network to the monitor inside the cab, providing necessary information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

Komatsu Variable Geometry Turbocharger (KVTG) system

The KVTG 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.

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.





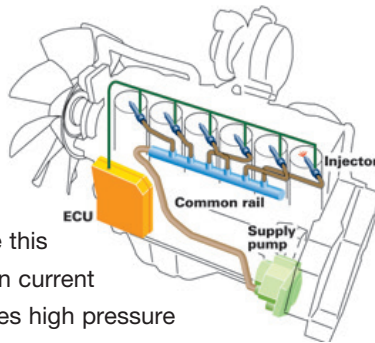
Komatsu Auto Idle Shutdown

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 PC360LCi-11's enhanced P Mode provides improved performance in demanding applications.

Productivity

Up to 4% increase
(compared to the PC360LC-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 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.



PC360LC-11 Shown.

WORKING ENVIRONMENT



Photo may include optional equipment.

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

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

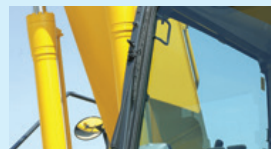
Sliding window glass (left side)



AM/FM stereo radio & ashtray



Remote intermittent wiper with windshield washer



Cigarette lighter



Opening & closing skylight



Magazine box & cup holder



Defroster (conforms to the ISO standard)



One-touch storable front window lower glass



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.

Indicators

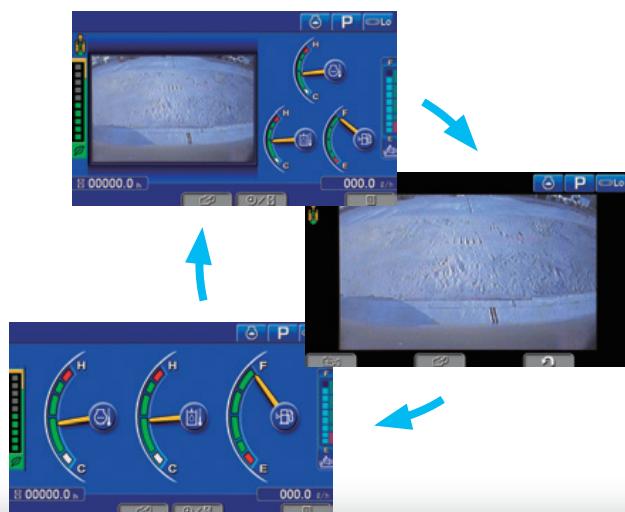
- | | |
|------------------------------------|-----------------------------|
| 1 Auto-decelerator | 8 Fuel gauge |
| 2 Working mode | 9 DEF level gauge |
| 3 Travel speed | 10 Service meter, clock |
| 4 Ecology gauge | 11 Fuel consumption gauge |
| 5 Camera display | 12 Guidance icon |
| 6 Engine coolant temperature gauge | 13 Function switches |
| 7 Hydraulic oil temperature gauge | 14 Camera direction display |
| | 15 DEF level caution lamp |

Basic operation switches

- | | |
|-------------------------|-------------------------|
| 1 Auto-decelerator | 4 Buzzer cancel |
| 2 Working mode selector | 5 Wiper |
| 3 Travel speed selector | 6 Window washer |
| | 7 Auto climate controls |

Switchable Display Modes

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



- 1 Energy saving guidance
- 2 Machine settings
- 3 Aftertreatment devices regeneration
- 4 SCR information
- 5 Maintenance
- 6 Monitor setting
- 7 Message check

WORKING ENVIRONMENT

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.



Ecology gauge Fuel consumption gauge
Ecology guidance

Operation record, fuel consumption history, and ecology guidance record

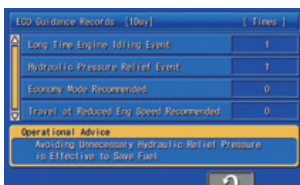
The ecology guidance menu enables the operator to check the operation record, fuel consumption history and ecology guidance record from the ecology guidance menu, using a single touch, thus enabling the total fuel consumption to be reduced.



Operation record



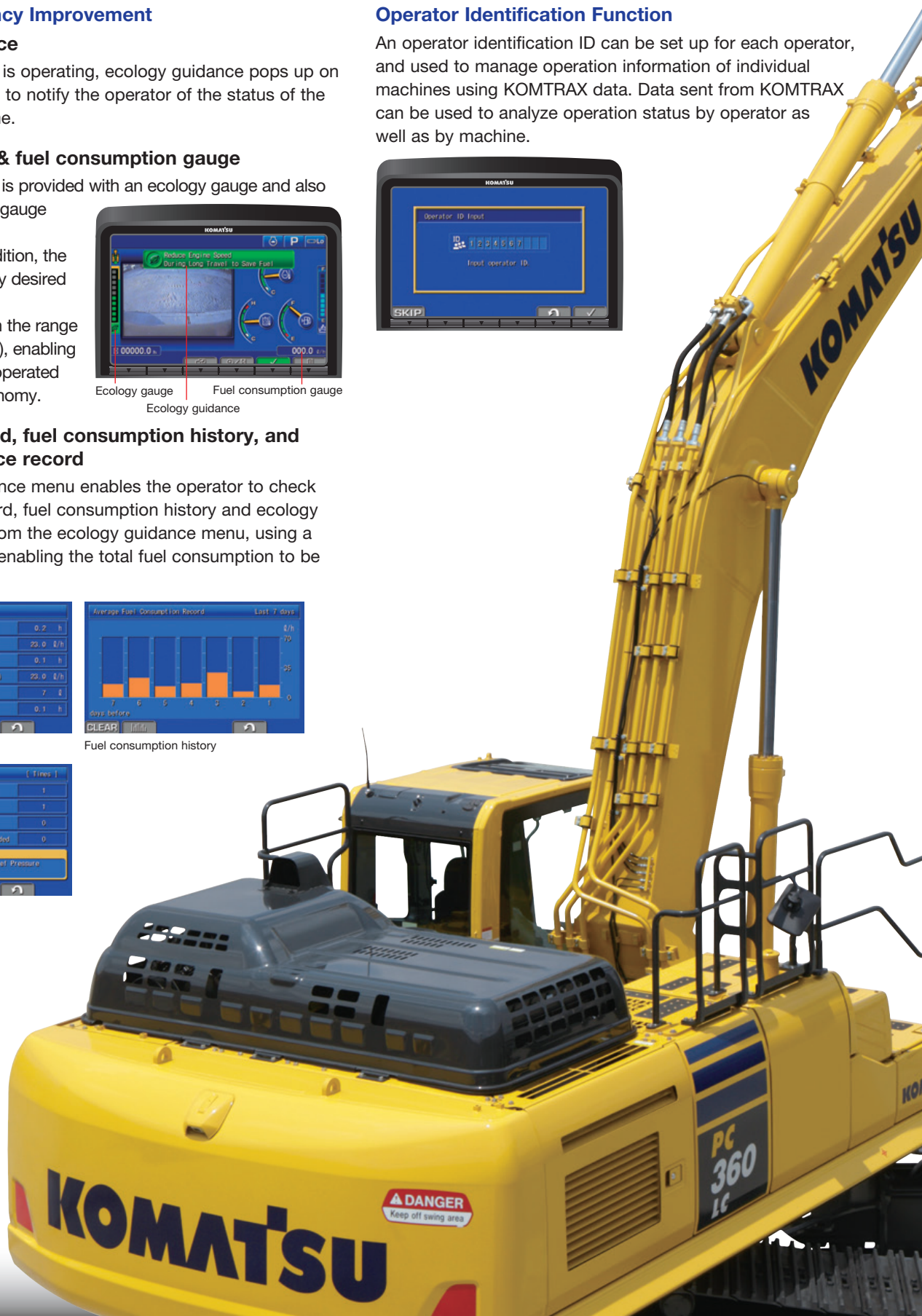
Fuel consumption history



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.





PC360LC-11 Shown.

MAINTENANCE FEATURES

PC360LCG-11

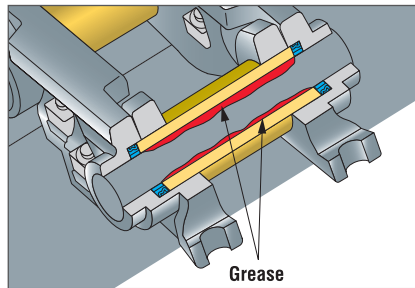
Drawbar Pull

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



Grease Sealed Track

The PC360LC-11 uses grease sealed tracks for extended undercarriage life.



Large Displacement High Efficiency Pump

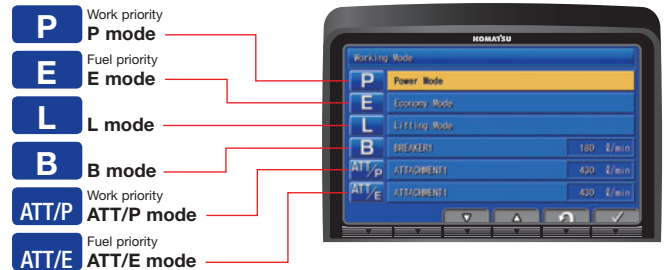
Large displacement hydraulic implement pumps provide high flow output at lower engine RPM as well as operation at the most efficient engine speed.



Working Mode Selection

The PC360LC-11 excavator is equipped with six working modes (P, E, L, B, ATT/P and ATT/E). An enhanced Power Mode provides improved performance in demanding applications. Each mode is designed to match engine speed, pump flow, and system pressure to the application. The PC360LC-11 features an attachment mode (ATT/E) that allows operators to run attachments while in Economy mode.

Working Mode	Application	Advantage
P	Power mode	<ul style="list-style-type: none"> •Maximum production/power •Fast cycle times
E	Economy mode	<ul style="list-style-type: none"> •Good cycle times •Better fuel economy
L	Lifting mode	<ul style="list-style-type: none"> •Increases hydraulic pressure
B	Breaker mode	<ul style="list-style-type: none"> •Optimum engine rpm, hydraulic flow
ATT/P	Attachment Power mode	<ul style="list-style-type: none"> •Optimum engine rpm, hydraulic flow, 2-way •Power mode
ATT/E	Attachment Economy mode	<ul style="list-style-type: none"> •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.





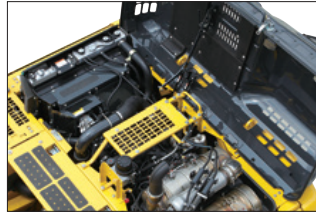
Large capacity air cleaner

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

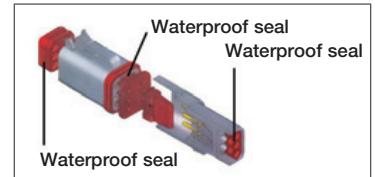
Sloping track frame

Long-life oils, filters

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

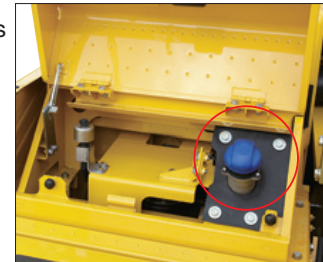
DT-type connectors

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.



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

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

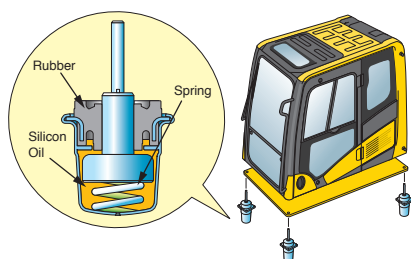


Rear view image on monitor



Low Vibration with Viscous Cab Mounts

The PC360LCi-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



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**

✓ WHO

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

✓ 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



Photo may include optional equipment. PC360LC-11 Shown.



KOMTRAX[®]

For construction and compact equipment.

KOMTRAX Plus[®]

For production and mining class machines.

KOMATSU PARTS & SERVICE SUPPORT



Every New Komatsu Tier 4 Final Construction Machine is Covered.

The Komatsu CARE® program covers all new Komatsu Tier 4 Final construction equipment, whether rented, leased or purchased. For the first 3 years or 2,000 hours, whichever occurs first, you'll receive:

- Regular service at 500, 1,000, 1,500 and 2,000-hr. intervals
- DEF tank breather element replacement at 1,000 hours
- DEF and CCV filters replacement at 2,000 hours
- 50-point inspection by factory-trained technician at each scheduled interval
- Technician labor
- Fluids, oils, coolant, filters, SCR screen, tank breather and parts
- Technician travel to and from your equipment location

Plus two complimentary scheduled KDPF exchanges and SCR system service for 5 years-no hours limits. *

Service will be performed by a Komatsu Distributor and only Komatsu genuine fluids and filters will be used.

Komatsu CARE® services are available from every Komatsu Distributor in the U.S. and Canada.



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



* Some exclusions apply. Please contact your Komatsu distributor for specific programs details.



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

SPECIFICATIONS



ENGINE

Model.....Komatsu SAA6D114E-6*
 Type.....Water-cooled, 4-cycle, direct injection
 Aspiration.....Komatsu Variable Geometry Turbocharger
 with air-to-air aftercooler and EGR
 Number of cylinders..... 6
 Bore..... 114 mm **4.49"**
 Stroke.....144.5 mm **5.69"**
 Piston displacement..... 8.85 ltr **540 in³**
 Horsepower:
 SAE J1995.....Gross 202 kW **271 HP**
 ISO 9249 / SAE J1349.....**Net 192 kW 257 HP**
 Rated rpm..... 1950
 Governor..... All-speed control, electronic
 Fan drive method for radiator cooling..... Mechanical
 *EPA Tier 4 Final emissions certified



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..... 535 ltr/min **141.3 gal/min**
 Supply for control circuit..... Self reducing valve
 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 kgf/cm² **5,400 psi**
 Travel circuit..... 37.3 MPa 380 kgf/cm² **5,400 psi**
 Swing circuit..... 27.9 MPa 285 kgf/cm² **4,050 psi**
 Pilot circuit..... 3.2 MPa 33 kgf/cm² **470 psi**
 Hydraulic cylinders:
 (Number of cylinders – bore x stroke x rod diameter)
 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"**



DRIVES AND BRAKES

Steering control.....Two lever with pedals
 Drive method.....Hydrostatic
 Maximum drawbar pull..... 290 kN 29570 kgf **65,191 lbf**
 Gradeability..... 70%, 35°
 Maximum travel speed (auto shift):
 High..... 5.5 km/h **3.4 mph**
 Mid..... 4.2 km/h **2.8 mph**
 Low..... 3.2 km/h **2.0 mph**
 Service brake.....Hydraulic lock
 Parking brake.....Mechanical disc brake



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.....9.5 rpm
 Swing torque.....11386 kg·m **82,313 ft lbs**



UNDERCARRIAGE

Center frame.....X-frame
 Track frame.....Box-section
 Track type.....Sealed
 Track adjuster.....Hydraulic
 Number of shoes (each side)..... 48
 Number of carrier rollers (each side)..... 2
 Number of track rollers (each side)..... 8



COOLANT & LUBRICANT CAPACITY (REFILLING)

Fuel tank..... 605 ltr **159.8 U.S. gal**
 Radiator..... 37 ltr **9.7 U.S. gal**
 Engine..... 35 ltr **9.2 U.S. gal**
 Final drive, each side.....9.0 ltr **2.4 U.S. gal**
 Swing drive..... 13.7 ltr **3.6 U.S. gal**
 Hydraulic tank..... 188 ltr **49.7 U.S. gal**
 Diesel Exhaust Fluid (DEF) tank..... 39 ltr **10.3 U.S. gal**



OPERATING WEIGHT (APPROXIMATE)

Operating weight includes 6500 mm **21'3"** one-piece HD boom, 3185 mm **10'5"** arm, SAE heaped 1.96 m³ **2.53 yd³** bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

Triple-Grouser Shoes	Operating Weight	Ground Pressure
850 mm 33.5"	36200 kg 79,807 lb	47.7 kPa 0.49 kg/cm ² 6.9 psi



WORKING FORCES

	Arm Length	3185 mm 10'5"	4020 mm 13'2"
ISO rating	Bucket	200 kN	200 kN
	digging force	20400 kgf / 44,970 lb	20400 kgf / 44,970 lb
	Arm	165 kN	139 kN
SAE rating	crowd force	16800 kgf / 37,040 lb	14200 kgf / 31,310 lb
	Bucket	228 kN	227 kN
	digging force	23200 kgf / 51,150 lb	23100 kgf / 50,930 lb
SAE rating	Arm	171 kN	144 kN
	crowd force	17400 kgf / 38,360 lb	14700 kgf / 32,410 lb

Component Weights

Arm including bucket cylinder and linkage
 3185 mm **10'5"** arm assembly..... 1761 kg **3,882 lb**
 4020 mm **13'2"** arm assembly..... 1988 kg **4,383 lb**
 One piece HD boom including arm cylinder
 6500 mm **21'3"** boom assembly..... 3135 kg **6,912 lb**
 Boom cylinders x 2..... 259 kg **571 lb**
 Counterweight..... 6920 kg **15,255 lb**
 1.96 m³ **2.56 yd³** bucket - 54" width..... 1554 kg **3,425 lb**

SPECIFICATIONS

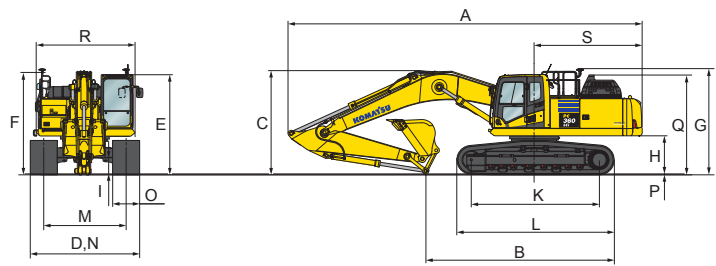
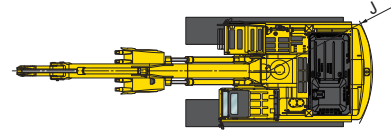


DIMENSIONS

Arm Length	3185 mm	10'5"	4020 mm	13'2"
A Overall length	11145 mm	36'7"	11170 mm	36'8"
B Length on ground (transport)	5935 mm	19'6"	5475 mm	18'0"
C Overall height (to top of boom)*	3285 mm	10'9"	3760 mm	12'4"
D Overall width	3440 mm	11'3"		
E Overall height (to top of cab)*	3160 mm	10'4"		
F Overall height (to top of handrail)*	3255 mm	10'8"		
G Overall height (to top of GNSS antenna)*	3330 mm	10'11"		
H Ground clearance, counterweight	1185 mm	3'11"		
I Ground clearance, minimum	498 mm	1'8"		
J Tail swing radius	3445 mm	11'4"		
K Track length on ground	4030 mm	13'3"		
L Track length	4955 mm	16'3"		
M Track gauge	2590 mm	8'6"		
N Width of crawler	3440 mm	11'3"		
O Shoe width	850 mm	33.5"		
P Grouser height	36 mm	1.4"		
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

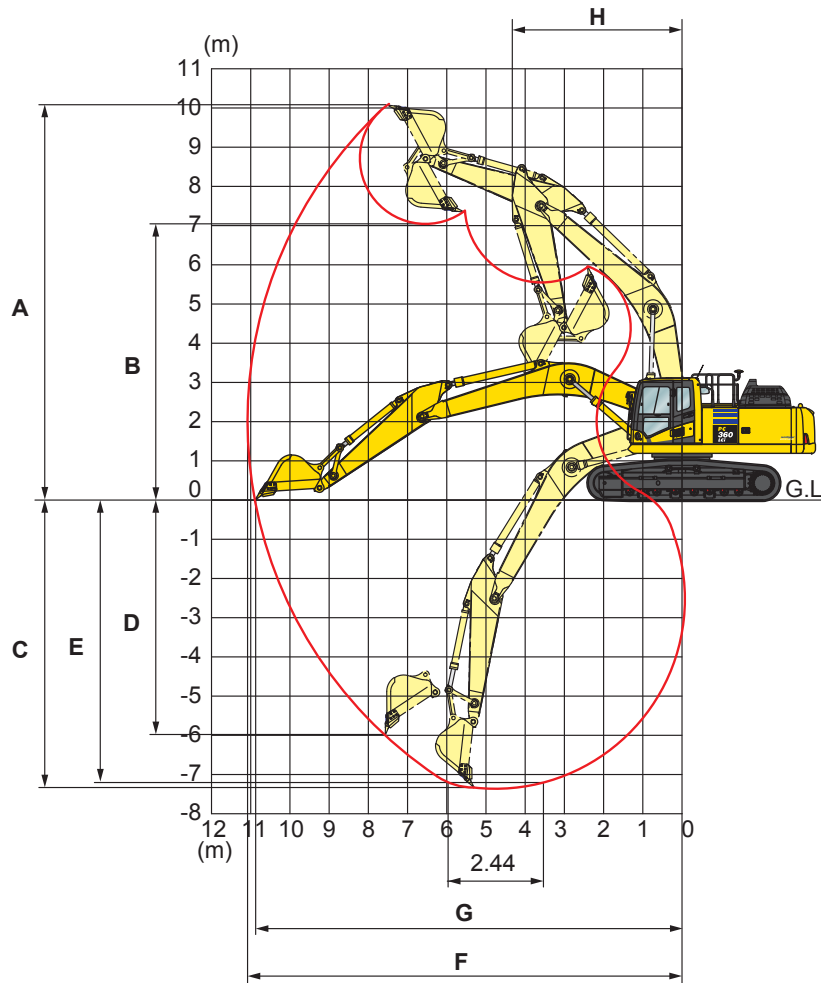
Bucket Type	Bucket						6.5 m (21'3") Boom		
	Capacity		Teeth	Width		Weight		3.2 m (10'5")	4.0 m (13'2")
Komatsu TL	0.93 m ³	1.21 yd ³	4	762 mm	30"	1097 kg	2418 lb	●	●
	1.18 m ³	1.54 yd ³	4	914 mm	36"	1198 kg	2641 lb	●	●
	1.44 m ³	1.88 yd ³	5	1067 mm	42"	1325 kg	2921 lb	●	●
	1.70 m ³	2.22 yd ³	5	1219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

● - 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

○ - Used with material weights up to 3,000 lb/yd³ - Tough digging applications
 ◎ - Used with material weights up to 2,000 lb/yd³ - Light materials applications
 X - Not useable

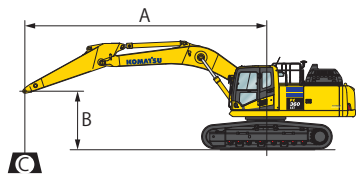


WORKING RANGE



	Arm Length	3185 mm 10'5"	4020 mm 13'2"
A	Max. digging height	10210 mm 33'6"	10550 mm 34'7"
B	Max. dumping height	7110 mm 23'4"	7490 mm 24'7"
C	Max. digging depth	7380 mm 24'3"	8180 mm 26'10"
D	Max. vertical wall digging depth	6480 mm 21'3"	7280 mm 23'11"
E	Max. digging depth for 8' level bottom	7180 mm 23'7"	8045 mm 26'5"
F	Max. digging reach	11100 mm 36'5"	11900 mm 39'1"
G	Max. digging reach at ground level	10920 mm 35'10"	11730 mm 38'6"
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

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

Arm: 3185 mm 10'5" Shoes: 850 mm 33.5" Unit: kg lb

B	A		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	Cf	Cs
7.6 m													* 7250	* 7250
25'													* 15900	* 15900
6.1 m							* 8890	7630					* 7050	6470
20'							* 19600	16800					* 15500	14200
4.6 m					* 10740	10300	* 9370	7460					* 7100	5770
15'					* 23600	22700	* 20600	16400					* 15600	12700
3.0 m		* 16210	14690	* 12090	9830	* 10030	7230	8280	5590	* 7380	5410			
10'		* 35700	32300	* 26600	21600	* 22100	15900	18200	12300	* 16200	11900			
1.5 m	* 18180	13880	* 13220	9410	10560	7010	8160	5490	7850	5290				
5'	* 40000	30600	* 29100	20700	23200	15400	18000	12100	17300	11600				
0 m	* 18550	13520	* 13740	9140	10380	6840	8080	5410	8030	5380				
0'	* 40900	29800	* 30200	20100	22800	15000	17800	11900	17700	11800				
-1.5 m	* 13710	* 13710	* 17720	13450	* 13480	9020	10290	6770			8610	5740		
-5'	* 30200	* 30200	* 39000	29600	* 29700	19900	22700	14900			18900	12600		
-3.0 m	* 20540	* 20540	* 15850	13550	* 12300	9050	* 9440	6810			* 8870	6520		
-10'	* 45200	* 45200	* 34900	29800	* 27100	19900	* 20800	15000			* 19500	14300		
-4.6 m	* 15670	* 15670	* 12560	* 12560	* 9590	9260					* 8350	8290		
-15'	* 34500	* 34500	* 27600	* 27600	* 21100	20400					* 18400	18200		

*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.

Arm: 4020 mm 13'2" Shoes: 850 mm 33.5" Unit: kg lb

B	A		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	Cf	Cs
7.6 m							* 7750	* 7750					* 5610	* 5610
25'							* 17000	* 17000					* 12300	* 12300
6.1 m							* 7950	7720	* 6550	5770	* 5460	* 5460		
20'							* 17500	17000	* 14400	12700	* 12000	* 12000		
4.6 m							* 8520	7500	* 7870	5690	* 5470	5010		
15'							* 18700	16500	* 17300	12500	* 12000	11000		
3.0 m		* 14340	* 14340	* 11020	9910	* 9280	7220	* 8220	5550	* 5640	4720			
10'		* 31600	* 31600	* 24300	21800	* 20400	15900	* 18100	12200	* 12400	10400			
1.5 m	* 16890	13960	* 12370	9390	* 10010	6940	8080	5400	* 5950	4610				
5'	* 37200	30700	* 27200	20700	* 22000	15300	17800	11900	* 13100	10100				
0 m	* 8320	* 8320	* 18090	13330	* 13230	9000	10250	6710	7950	5270	* 6480	4660		
0'	* 18300	* 18300	* 39800	29400	* 29100	19800	22600	14700	17500	11600	* 14200	10200		
-1.5 m	* 12420	* 12420	* 17980	13090	* 13400	8790	10100	6570	7880	5200	* 7330	4910		
-5'	* 27300	* 27300	* 39600	28800	* 29500	19300	22200	14400	17300	11400	* 16100	10800		
-3.0 m	* 17840	* 17840	* 16780	13090	* 12760	8740	10020	6540			* 8040	5440		
-10'	* 39300	* 39300	* 37000	28800	* 28100	19200	22000	14400			* 17700	11900		
-4.6 m	* 19190	* 19190	* 14360	13290	* 11040	8860	8190	6670			* 7850	6520		
-15'	* 42300	* 42300	* 31600	29300	* 24300	19500	18000	14700			* 17300	14300		

*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
- 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 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 priming pump
- 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, 850mm **33.5"**
- 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
 - 4020 mm **13'2"** arm assembly
- Booms
 - 6500 mm **21'3"** HD boom assembly
- Revolving frame undercovers, heavy duty
- Track roller guards, full length

KOMATSU®

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