KOMATSU®

PC360LCi-11

Tier 4 Final Engine

PC360LCi

HYDRAULIC EXCAVATOR

Photo may include optional equipment.

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 yd^3
0.68–1.96 m^3

intelligent MACHINE CONTROL

Courtesy of Machine.Market

WALK-AROUND

PC360LCi-11

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 yd^3
0.68–1.96 m^3

Photos may include optional equipment.

Courtesy of Machine.Market

intelligent MACHINE CONTROL

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.

Courtesy of Machine.Market

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.

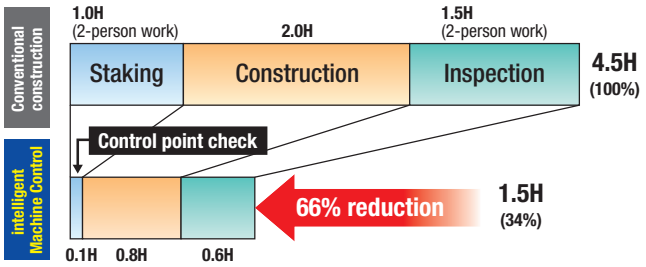
Courtesy of Machine.Market

intelligent MACHINE CONTROL

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

Shaping with reference to finishing stakes

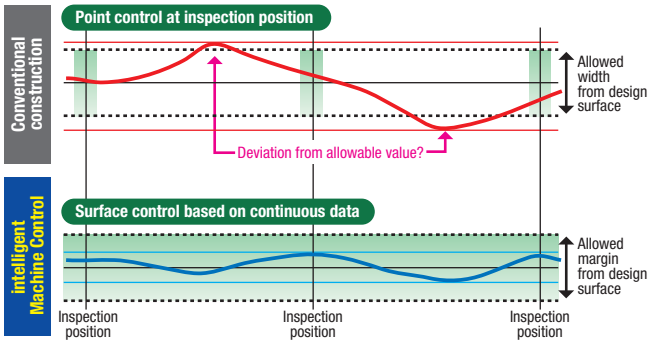
intelligent Machine Control

Reduces staking work and the number of assistant workers.

Improved Work Accuracy

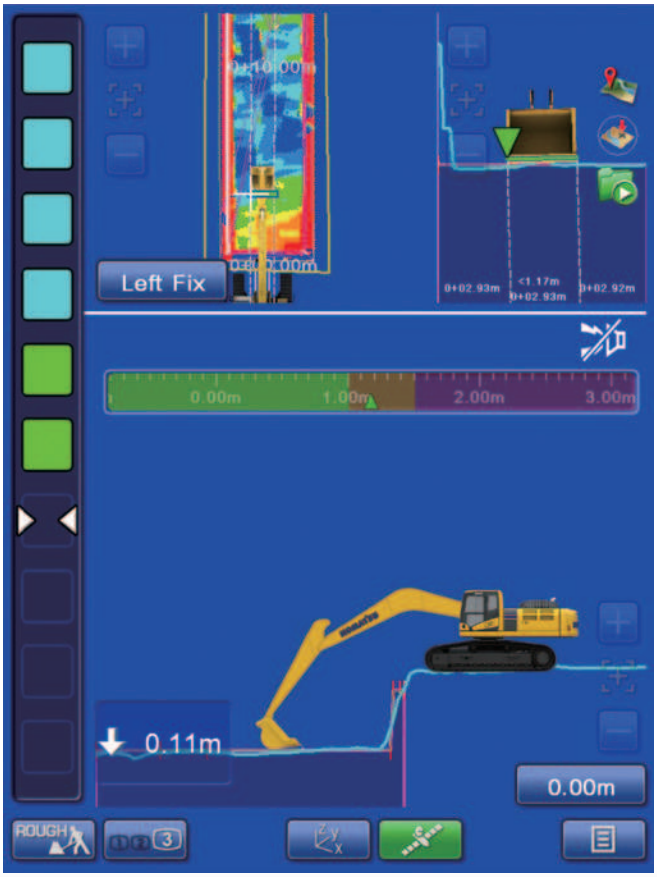
The bucket edge/tip position is instantly displayed on the control box, eliminating the wait time for display on the monitor during construction. The large and easy-to-view control box displays information clearly, aiding in highly accurate work. With manual operation and conventional machine guidance,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

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.

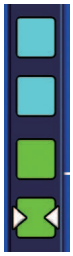
Machine Navigation

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



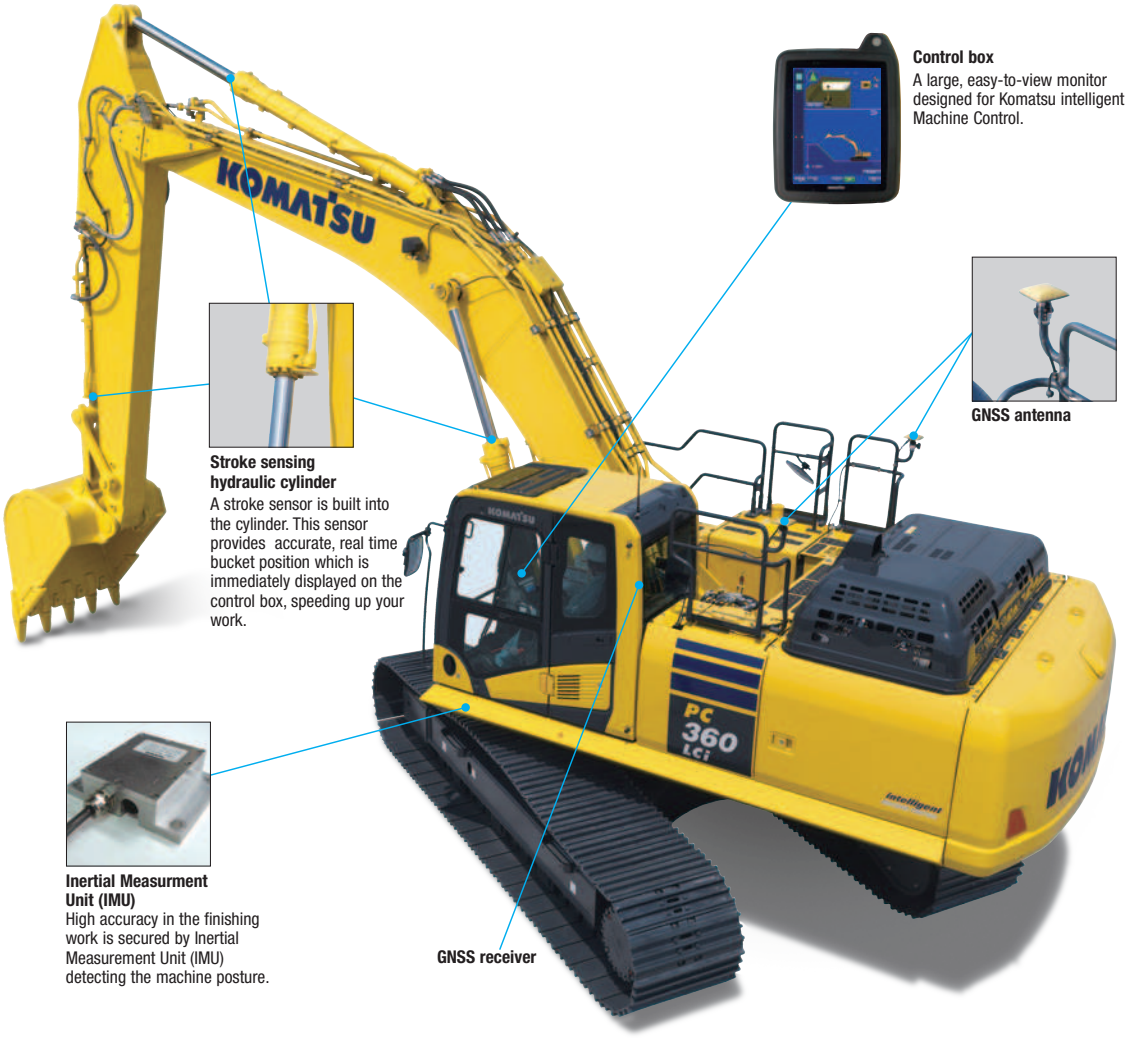
Colors show the bucket edge position relative to the target surface. Since the light bar is located on the left side of the screen, the bucket edge position can be viewed simply while operating, which increases the work efficiency.

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.

intelligent MACHINE CONTROL

Factory installed Komatsu intelligent Machine Control components.



Control box
A large, easy-to-view monitor designed for Komatsu intelligent Machine Control.

GNSS antenna

Stroke sensing hydraulic cylinder
A stroke sensor is built into the cylinder. This sensor provides accurate, real time bucket position which is immediately displayed on the control box, speeding up your work.

Inertial Measurment Unit (IMU)
High accuracy in the finishing work is secured by Inertial Measurement Unit (IMU) detecting the machine posture.

GNSS receiver

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.

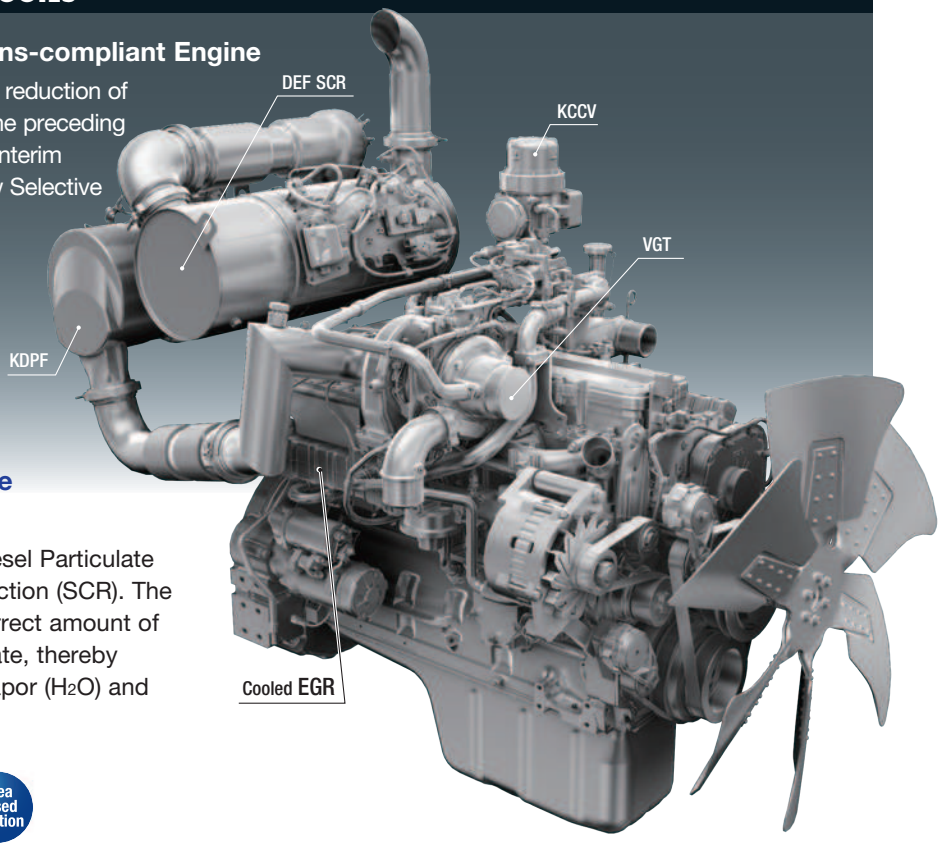
Please contact your local Topcon dealer for details.

PERFORMANCE FEATURES

KOMATSU'S NEW ENGINE TECHNOLOGIES

Komatsu's New Emission Regulations-compliant Engine

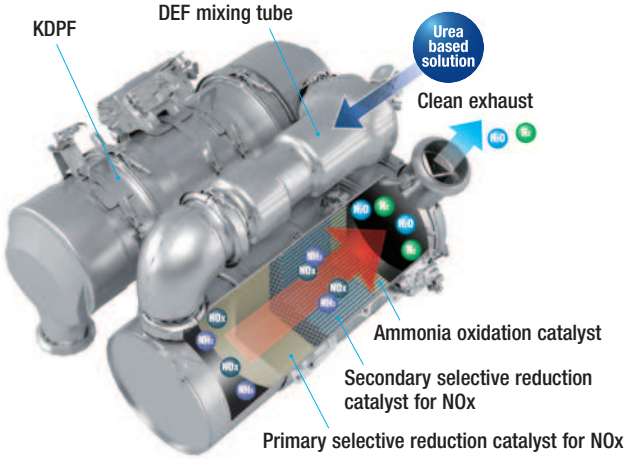
New regulations effective in 2014 require the reduction of NOx emissions to one tenth or below from the preceding regulations. In addition to refining the Tier 4 Interim technologies, Komatsu has developed a new Selective Catalytic Reduction (SCR) device in-house.



Technologies Applied to New Engine

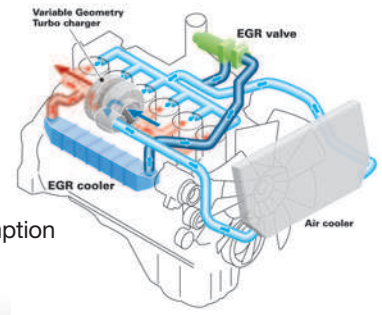
Heavy-duty aftertreatment system

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 (H_2O) and nitrogen gas (N_2).



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.

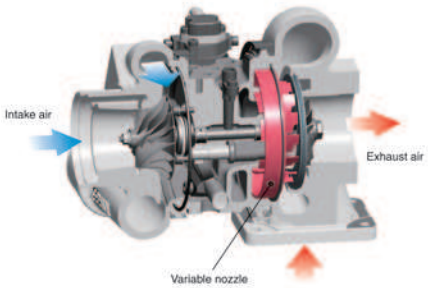


Advanced Electronic Control System

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.



Courtesy of Machine.Market

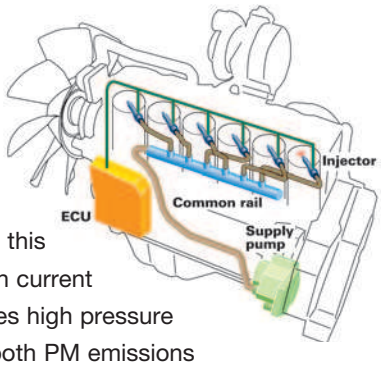
intelligent MACHINE CONTROL

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

GENERAL FEATURES

intelligent MACHINE CONTROL

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

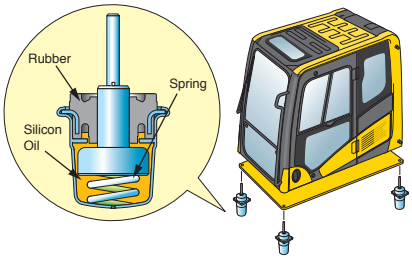
A new rear view monitoring system display has a rear view camera image that is continuously displayed together with the gauges and important vehicle information. This enables the operator to carry out work while easily checking the surrounding area.

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.

Lock lever

Retractable seat belt

Tempered & tinted glass

Large cab entrance step

Left and right side hand rails

Seat belt caution indicator

Large mirrors

Slip-resistant plates

Thermal and fan guards

Pump/engine compartment partition

Travel alarm

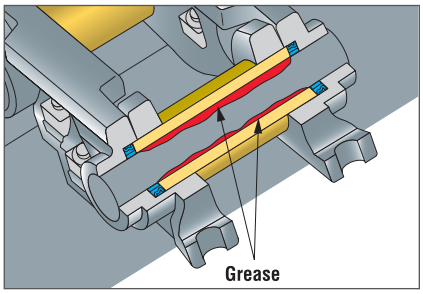
MAINTENANCE FEATURES

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 PC360LCi-11 uses grease sealed tracks for extended undercarriage life.



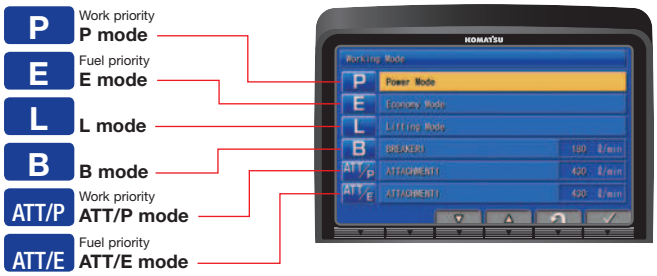
Large Displacement High Efficiency Pump

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 PC360LCi-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 PC360LCi-11 features an attachment mode (ATT/E) that allows operators to run attachments while in Economy mode.

Working Mode	Application	Advantage
P	Power mode	•Maximum production/power •Fast cycle times
E	Economy mode	•Good cycle times •Better fuel economy
L	Lifting mode	•Increases hydraulic pressure
B	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.

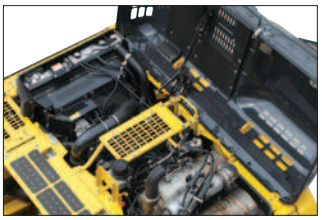
Courtesy of Machine.Market

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.

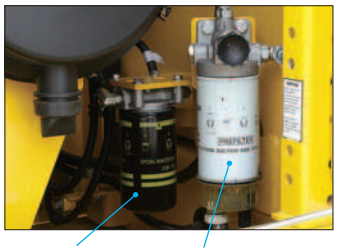
Engine Access

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



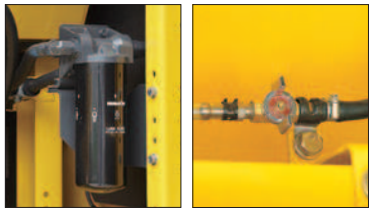
Fuel Filters

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.



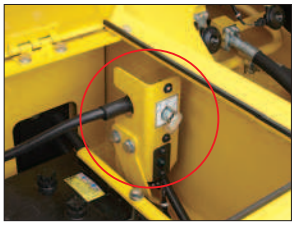
Easy access to engine oil filter and fuel drain valve

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

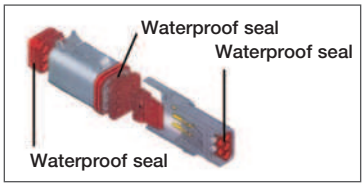
Sloping track frame

Long-life oils, filters

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

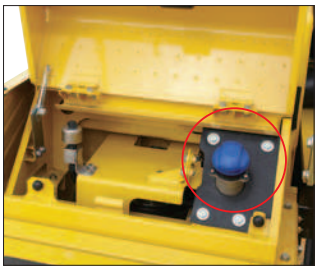
DT-type connectors

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

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

Courtesy of Machine.Market

KOMTRAX EQUIPMENT MONITORING

intelligent MACHINE CONTROL

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 many include optional equipment.

KOMTRAX®

For construction and compact equipment.

KOMTRAX Plus®

For production and mining class machines.

SPECIFICATIONS

PC360LCi-11

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/cm² **6.9 psi**

WORKING FORCES

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

Component Weights

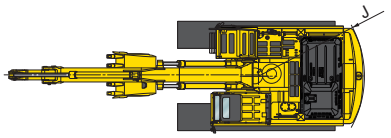
Arm including bucket cylinder and linkage
3185 mm **10'5"** arm assembly ..... 1761 kg **3,882 lb**
4020 mm **13'2"** arm assembly.....1988 kg **4,383 lb**
One piece HD boom including arm cylinder
6500 mm **21'3"** boom assembly..... 3135 kg **6,912 lb**
Boom cylinders x 2 ..... 259 kg **571 lb**
Counterweight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

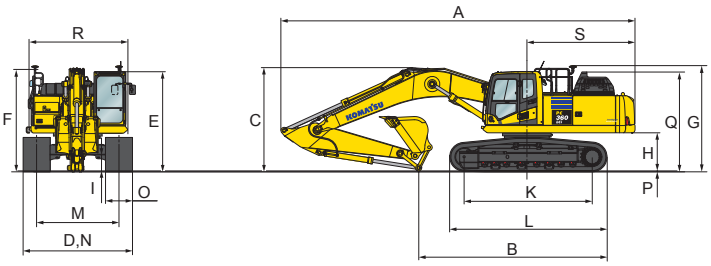
intelligent MACHINE CONTROL

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





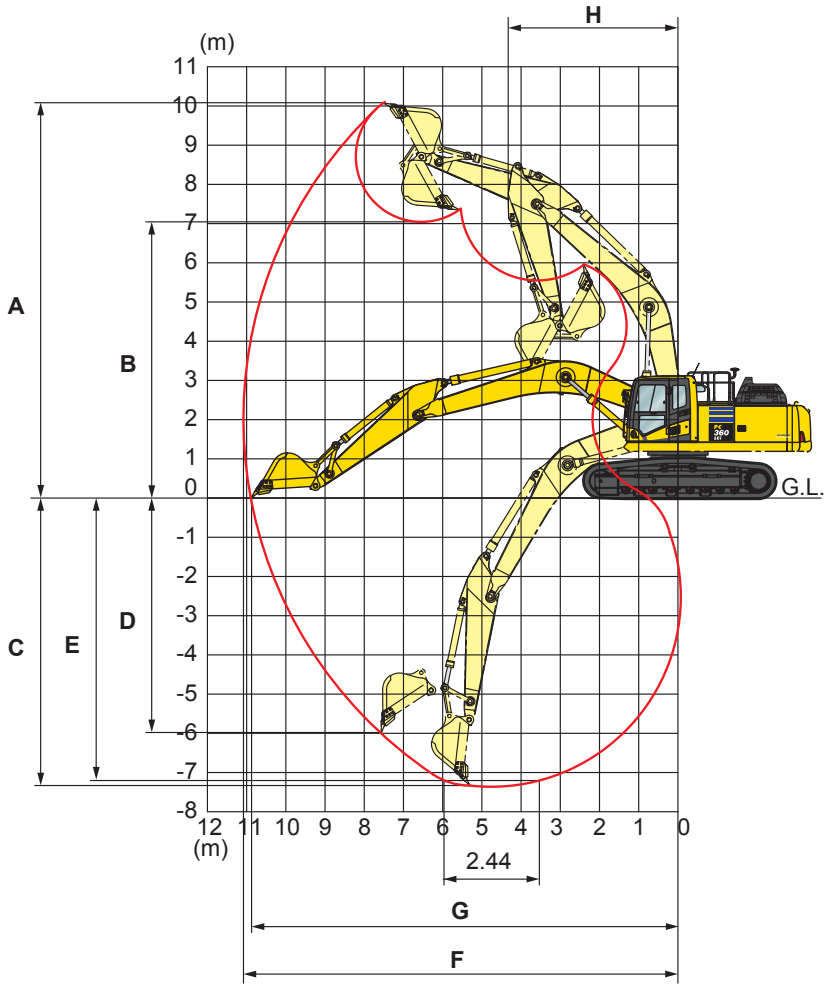
BACKHOE BUCKET, ARM AND BOOM COMBINATION

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

SPECIFICATIONS

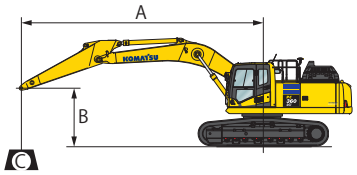
WORKING RANGE



	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	7280 mm	**23'11"**	8110 mm	**26'7"**
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"**	7960 mm	**26'1"**
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

intelligent MACHINE CONTROL



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**

A / B	3.0 m 10' Cf	3.0 m 10' Cs	4.6 m 15' Cf	4.6 m 15' Cs	6.1 m 20' Cf	6.1 m 20' Cs	7.6 m 25' Cf	7.6 m 25' Cs	9.1 m 30' Cf	9.1 m 30' Cs	⊗ MAX Cf	⊗ MAX Cs
7.6 m **25'**											* 7250 * **15900**	* 7250 * **15900**
6.1 m **20 '**							* 8890 * **19600**	7630 **16800**			* 7050 * **15500**	6470 **14200**
4.6 m **15'**					* 10740 * **23600**	10300 **22700**	* 9370 * **20600**	7460 **16400**			* 7100 * **15600**	5770 **12700**
3.0 m **10'**			* 16210 * **35700**	14690 **32300**	* 12090 * **26600**	9830 **21600**	* 10030 * **22100**	7230 **15900**	8280 **18200**	5590 **12300**	* 7380 * **16200**	5410 **11900**
1.5 m **5'**			* 18180 * **40000**	13880 **30600**	* 13220 * **29100**	9410 **20700**	10560 **23200**	7010 **15400**	8160 **18000**	5490 **12100**	7850 **17300**	5290 **11600**
0 m **0'**			* 18550 * **40900**	13520 **29800**	* 13740 * **30200**	9140 **20100**	10380 **22800**	6840 **15000**	8080 **17800**	5410 **11900**	8030 **17700**	5380 **11800**
-1.5 m **-5'**	* 13710 * **30200**	* 13710 * **30200**	* 17720 * **39000**	13450 **29600**	* 13480 * **29700**	9020 **19900**	10290 **22700**	6770 **14900**			8610 **18900**	5740 **12600**
-3.0 m **-10'**	* 20540 * **45200**	* 20540 * **45200**	* 15850 * **34900**	13550 **29800**	* 12300 * **27100**	9050 **19900**	* 9440 * **20800**	6810 **15000**			* 8870 * **19500**	6520 **14300**
-4.6 m **-15'**	* 15670 * **34500**	* 15670 * **34500**	* 12560 * **27600**	* 12560 * **27600**	* 9590 * **21100**	9260 **20400**					* 8350 * **18400**	8290 **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**

A / B	3.0 m 10' Cf	3.0 m 10' Cs	4.6 m 15' Cf	4.6 m 15' Cs	6.1 m 20' Cf	6.1 m 20' Cs	7.6 m 25' Cf	7.6 m 25' Cs	9.1 m 30' Cf	9.1 m 30' Cs	⊗ MAX Cf	⊗ MAX Cs
7.6 m **25'**							* 7750 * **17000**	* 7750 * **17000**			* 5610 * **12300**	* 5610 * **12300**
6.1 m **20 '**							* 7950 * **17500**	7720 **17000**	* 6550 * **14400**	5770 **12700**	* 5460 * **12000**	* 5460 * **12000**
4.6 m **15'**							* 8520 * **18700**	7500 **16500**	* 7870 * **17300**	5690 **12500**	* 5470 * **12000**	5010 **11000**
3.0 m **10'**			* 14340 * **31600**	* 14340 * **31600**	* 11020 * **24300**	9910 **21800**	* 9280 * **20400**	7220 **15900**	* 8220 * **18100**	5550 **12200**	* 5640 * **12400**	4720 **10400**
1.5 m **5'**			* 16890 * **37200**	13960 **30700**	* 12370 * **27200**	9390 **20700**	* 10010 * **22000**	6940 **15300**	8080 **17800**	5400 **11900**	* 5950 * **13100**	4610 **10100**
0 m **0'**	* 8320 * **18300**	* 8320 * **18300**	* 18090 * **39800**	13330 **29400**	* 13230 * **29100**	9000 **19800**	10250 **22600**	6710 **14700**	7950 **17500**	5270 **11600**	* 6480 * **14200**	4660 **10200**
-1.5 m **-5'**	* 12420 * **27300**	* 12420 * **27300**	* 17980 * **39600**	13090 **28800**	* 13400 * **29500**	8790 **19300**	10100 **22200**	6570 **14400**	7880 **17300**	5200 **11400**	* 7330 * **16100**	4910 **10800**
-3.0 m **-10'**	* 17840 * **39300**	* 17840 * **39300**	* 16780 * **37000**	13090 **28800**	* 12760 * **28100**	8740 **19200**	10020 **22000**	6540 **14400**			* 8040 * **17700**	5440 **11900**
-4.6 m **-15'**	* 19190 * **42300**	* 19190 * **42300**	* 14360 * **31600**	13290 **29300**	* 11040 * **24300**	8860 **19500**	8190 **18000**	6670 **14700**			* 7850 * **17300**	6520 **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

AESS904-02 ©2016 Komatsu America Corp. Printed in USA AD12(2.5M)OTP 12/16 (EV-1)

KOMATSU®

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