

# PC210LC-10 Tier 4 Interim Engine



# **WALK-AROUND**



**Tier 4 Interim Engine** 

NET HORSEPOWER

158 HP @ 2000rpm 118 kW @ 2000rpm

**OPERATING WEIGHT** 

48,950-52,036 lb 22203-23603 kg

**BUCKET CAPACITY** 

0.66-1.57 yd3 0.50-1.20 m<sup>3</sup>



# FAST CYCLE TIMES & LOW FUEL CONSUMPTION

**Komatsu's Closed Center Load** Sensing (CLSS) hydraulic system provides quick response and smooth operation to maximize productivity.

New engine and hydraulic pump control technology improves

operational efficiency and lowers fuel consumption.

A powerful Komatsu SAA6D107E-2 engine provides a net output of 118 kW 158 HP. This engine is EPA Tier 4 Interim and EU stage 3B emissions certified.

**Komatsu Variable Geometry Turbocharger** (KVGT) uses a hydraulic actuator to provide optimum air flow under all speed and load conditions.

# **Komatsu Diesel Particulate Filter (KDPF)**

captures 90% of particulate matter and provides automatic regeneration that does not interfere with daily operation.

> Large displacement high efficiency pumps provide higher flow output and efficient operation.

# **Enhanced working modes**

are designed to match engine speed, pump delivery, and system pressure to the application.

Increased drawbar pull provides improved steering and maneuverability.

# Large LCD color monitor panel:

- 7" high resolution screen
- Provides "Eco-Guidance" for fuel efficient operation
- Enhanced attachment control

**Rearview monitoring** system (standard)

# **Equipment Management Monitoring System**

(EMMS) continuously monitors machine operation and vital systems to identify machine issues and assist with troubleshooting.

### **Enhanced working environment**

- High back, heated, and air suspension operator seat
- Integrated ROPS cab design (ISO 12117-2)
- Cab meets ISO Level 1 Operator Protective Guard (OPG) top guard (ISO 10262)

Komatsu designed and manufactured components Guardrails (standard) located on the machine upper structure provide a convenient work area in front of the engine.

Swing out cooler design provides easy access to service and clean the cooler assembly.

# **Battery disconnect switch**

allows a technician to disconnect the power supply before servicing the machine.

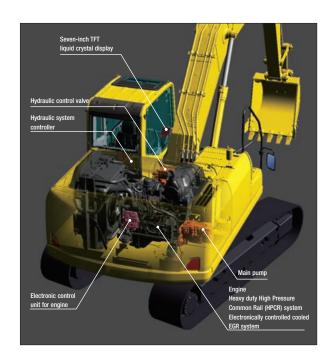
Standard 10,406 lb (4720 kg) counterweight provides the same lifting performance as the PC200LC-8 (optional 7,937 lb 3600 kg counterweight is available).



Komtrax equipped machines can send location, SMR and operation maps to a secure website utilizing wireless technology. Machines also relay error codes, cautions, maintenance items, fuel levels, and much more.



# PERFORMANCE FEATURES



# **Advanced Electronic Control System**

The engine control system has been upgraded to effectively manage the air flow rate, EGR gas flow rate, fuel injection parameters, and aftertreatment functions. The new control system also provides enhanced diagnostic capabilities.



# **Environment-Friendly Engine**

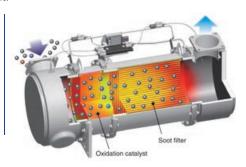
The Komatsu SAA6D107E-2 engine is EPA Tier 4 Interim and EU Stage 3B emissions certified and provides exceptional performance while reducing fuel consumption. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces exhaust gas particulate matter (PM) by more than 90% and nitrogen oxides (NOx) by more than 45% when compared to Tier 3 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.

# Komatsu Diesel Particulate Filter (KDPF)

Komatsu has developed a high efficiency diesel particulate filter that captures more than 90% of particulate matter. Both passive and active regeneration are automatically initiated by the engine controller depending on the soot level of the KDPF. A special oxidation catalyst with a fuel injection system is used to oxidize and remove particulate matter while the machine is running so the regeneration process will not interfere with daily operation.

The operator can also initiate regeneration manually or disable regeneration depending on the work environment.



# **Closed Crankcase Ventilation (CCV)**

Crankcase emissions (blowby gas) are passed through a CCV filter. The CCV filter traps oil mist which is returned back to the crankcase while the gas, which is almost oil mist free, is fed back to the air intake.



# Komatsu Variable Geometry Turbocharger (KVGT)

Using Komatsu proprietary technology, a newly designed variable geometry turbocharger with a hydraulic actuator is used to manage and deliver optimum air flow to the combustion chamber under all speed and load

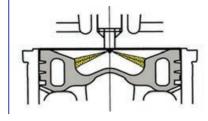
conditions. The robust hydraulic actuator provides power and precision, resulting in cleaner exhaust gas and improved fuel economy while maintaining performance.



# **Redesigned Combustion Chamber**

The combustion chamber located at the top of the

engine piston has a new shape designed to improve combustion and further reduce NOx, PM, fuel consumption, and noise levels.



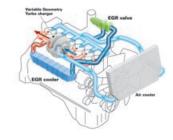
### **Low Operational Noise**

The PC210LC-10 provides low noise operation using a low noise engine and methods that reduce noise at the source such as sound absorbing materials.

# **Cooled Exhaust Gas Recirculation (EGR)**

Cooled EGR, a technology that has been well proven in Komatsu Tier 3 engines, reduces NOx emissions to meet Tier 4 levels.

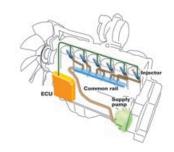
The hydraulically actuated EGR system has increased capacity and uses larger and more robust components to ensure reliability for demanding work conditions.



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

The heavy duty HPCR system is electronically controlled to deliver a precise quantity of pressurized fuel into the

combustion chamber using multiple injection events to achieve complete fuel burn and reduce exhaust gas emissions. Fuel injector reliability has been improved by using ultra-hard wear resistant materials.



# **Large Digging Force**

The PC210LC-10 is equipped with the Power Max system. This function temporarily increases digging force for 8.5 seconds of operation.

# Maximum arm crowd force (ISO):

101 kN (10.3 t) 108 kN (11.0 t) 7 % UP (with Power Max.)

# Maximum bucket digging force (ISO):

138 kN (14.1 t) 149 kN (15.2 t) 8 % UP

(with Power Max.)

\* Measured with Power Max function, 3045 mm arm and ISO rating



# PERFORMANCE FEATURES

# **Efficient Hydraulic System**

The PC210LC-10 uses a Closed Center Load Sensing (CLSS) hydraulic system that improves fuel efficiency and provides quick response to the operator's demands.

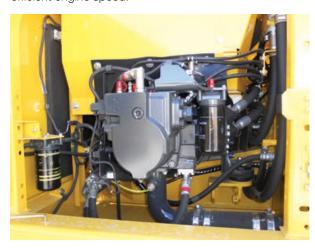
The PC210LC-10 also introduces new technology to enhance the engine and hydraulic pump control. This total control system matches the engine and hydraulics at the most efficient point under any load condition. There have also been improvements in the main valve and hydraulic circuit to reduce hydraulic loss, resulting in higher efficiency and lower fuel consumption.

# Reduced Up To 10% Fuel consumption

vs PC200LC-8
Based on typical work pattern collected via KOMTRAX

# **Large Displacement High Efficiency Pump**

Pump displacement has been increased, providing increased flow output as well as operation at the most efficient engine speed.



# **Idling Caution**

To reduce unnecessary fuel consumption, an idling

caution is displayed on the monitor if the engine idles for 5 minutes or more.



# **Working Mode Selection**

The PC210LC-10 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 PC210LC-10 features a new mode (ATT/E) which 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
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



# **Lifting Mode**

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

# **Eco-Gauge Assists with Energy Saving Operations**

The Eco-gauge and new fuel consumption gauge are viewed on the right side of the color monitor and assist the operator in maintaining low fuel consumption and environment friendly operation.



# **RELIABILITY FEATURES**

# **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.



# **Komatsu Designed Components**

All of the major machine components such as the engine, hydraulic pumps, hydraulic motors, and control valves are exclusively designed and manufactured by Komatsu.

# **High Efficiency Fuel Filter**

A new high efficiency dual element fuel filter improves fuel system reliability.



# Equipped with a Fuel Pre-filter (With Water Separator)

A fuel pre-filter removes water and contaminants in the fuel to increase reliability. For convenience, the fuel pre-filter has a built in priming pump.



# **O-Ring Face Seals**

Flat face-to-face O-ring seals are used to securely seal hydraulic hose connections.

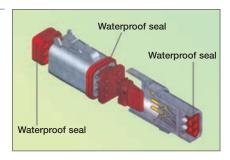


### **Durable Frame Structure**

The revolving frame, center frame, and undercarriage are designed using the most advanced three dimensional CAD and FEM analysis technology.

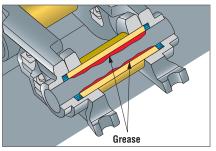
# **DT-type Connectors**

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



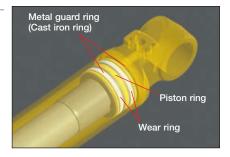
# **Grease Sealed Track**

The PC210LC-10 uses grease sealed tracks for extended undercarriage life.



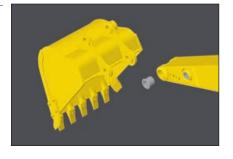
# **Metal Guard Rings**

The PC210LC-10 uses metal guard rings to protect all of the hydraulic cylinders and improve long term reliability.



# Durable Arm Tip Bushing

The end face of the arm tip bushing provides high resistance to seizure and wear.

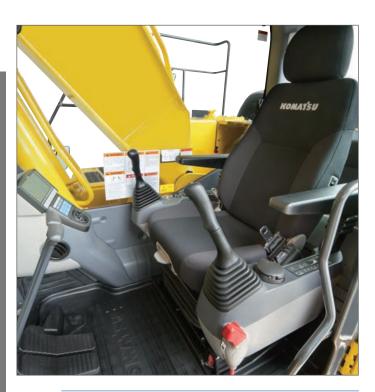


# **Highly Reliable Electronic Devices**

Exclusively designed electronic devices have passed severe testing.

- Controllers
- Sensors
- Connectors
- Heat Resistant Wiring

# **WORKING ENVIRONMENT**



# **Newly Designed Wide Spacious Cab**

The newly designed wide spacious cab features a high back, fully adjustable seat with a reclining backrest. The console and seat have an integrated design so that they

move together and provide additional comfort for the operator.

The new higher capacity operator seat has been enhanced to provide more comfort.

- Heated
- Air Suspension
- Integrated Seat
- Console Mounted Arm Rests



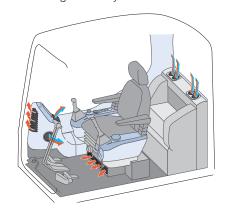
# **Low Cab Noise**

The new cab design is highly rigid and has excellent sound absorption ability. By improving noise source reduction and by using a low noise engine, hydraulic equipment, and air conditioner, this machine is able to generate low noise levels similar to that of a modern automobile.

# **Automatic Air Conditioner**

The automatic air conditioner allows the operator to easily and precisely set the cab atmosphere using the large LCD color monitor panel. The bi-level control function improves air flow and keeps the inside of the cab comfortable throughout the year.



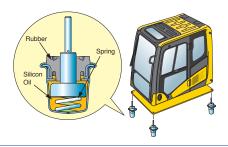


# **Pressurized Cab**

The air conditioner, air filter, and a higher internal cab air pressure minimize the amount of external dust that enters the cab.

# **Low Vibration with Viscous Cab Mounts**

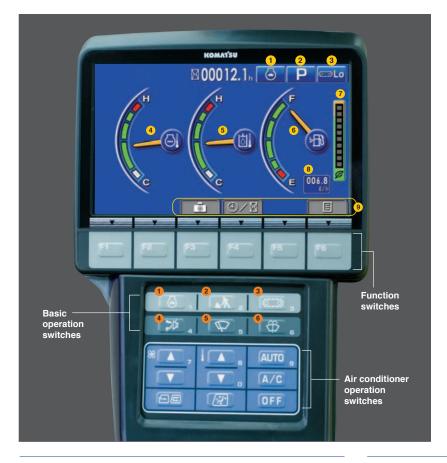
The PC210LC-10 uses viscous mounts for the cab that incorporate a longer stroke and the addition of a spring. The cab damper mounting combined with a high rigidity deck reduces vibration at the operator's seat.



# Auxiliary Input (MP3 Jack)

By connecting an auxiliary device such as an MP3 player to the auxiliary input, the operator can hear the sound through the speakers installed in the cab.

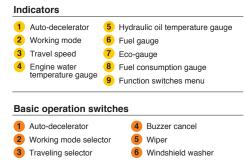




# Large High Resolution LCD Monitor Panel

A new large, user-friendly, high resolution LCD color monitor enables accurate and smooth work. Screen visibility and resolution are further improved compared to the previous LCD monitor panel. The switches and function keys are easy to operate and provide simple navigation through the monitor screens.

Data is displayed in 25 languages to support operators around the world.



# **Operational "ECO" Guidance**

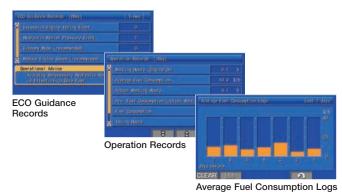
The monitor panel provides operational advice to the operator to help improve machine efficiency and lower fuel consumption. The operator can access the ECO guidance menu to check the Operation Records, Eco Guidance Records, and Average Fuel Consumption Logs.





ECO Guidance

ECO Guidance menu



# **Improved Attachment Control**

The PC210LC-10 is capable of storing up to ten different attachments in the new monitor panel. The name of each attachment can be changed for better tool management. Hydraulic flow rates can be easily adjusted for one-way and two-way flow attachments.



**Attachment Setting Screen** 



Attachment Flow Screen

# **MAINTENANCE FEATURES**

# **Easy Access Coolers**

The radiator and oil cooler are side-by-side modules which simplifies cleaning, removing, and installing. The swing out cooler design provides easier access to the cooling cores.



# Long Life Oils, Filters

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



Hydraulic oil filter (Eco-white element)

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

# **KDPF Regeneration Notification**

The LCD color monitor panel provides the operator with the status of the KDPF regeneration, without interfering with daily operation.

When the machine initiates active regeneration an icon

will appear to notify the operator.



# **Extended Work Equipment Greasing Intervals**

Special hard material is used for the work equipment bushings to lengthen the greasing intervals. All work equipment bushing lubrication intervals, except the arm tip and bucket linkage, are 500 hours, reducing maintenance costs.

# Battery Disconnect Switch

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



# **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.



Soot level indicator

# Equipped with Ecodrain Valve

Minimizes ground contamination due to oil leakage when replacing the engine oil.



# Equipment Management Monitoring System (EMMS)

The PC210LC-10 features an advanced diagnostic system that continuously monitors the machine's vital systems. EMMS tracks maintenance items, provides advanced troubleshooting tools, reduces diagnostic times, and displays error codes.

Through continuous monitoring, the EMMS helps identify issues before they become worse and allows the operator to concentrate on the work at hand.

# Abnormalities Display with Code

When an abnormality occurs an error code is displayed

on the monitor. When an important code is displayed, a caution lamp blinks and warning buzzer sounds to alert the operator to take action.

The monitor also stores a record of abnormalities for more effective troubleshooting.



# Advanced Monitoring System

The monitor provides advanced monitoring diagnostics to assist with troubleshooting and reduce costly downtime.





# **GENERAL FEATURES**

# **ROPS Cab Design**

The PC210LC-10 is equipped with an integrated ROPS cab as standard equipment. The cab also meets OPG Top Guard Level 1 requirements.



### Guardrails

Guardrails have been added on the upper structure of the machine. This provides additional convenience during engine service.



# Thermal and Fan Guards

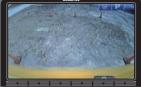
Thermal and fan guards are placed around high temperature parts of the engine and fan drive.



# Rear-view Monitoring System (standard)

On the large LCD color monitor the operator can view the image from one camera that will display areas directly behind the machine. An optional 2-camera system is available.





Rear view image on monitor

# Seat Belt Caution Indicator

A warning indicator on the monitor appears when the seat belt is not engaged.



# **Lock Lever**

When the lock lever is placed in the lock position, all hydraulic controls (travel, swing, boom, arm, and bucket) are inoperable.



# Secondary Engine Shutdown Switch

A new secondary switch has been added to shutdown the engine.



# **Slip Resistant Plates**

Durable slip resistant plates maintain excellent foot traction



# KOMTRAX EQUIPMENT WORKING ENVIRONMENT MONITORING





**KOMTRAX** is **Komatsu's remote equipment monitoring and management system.** KOMTRAX gathers critical machine and operation information and provides it in a user-friendly format so that you can make well-informed decisions. KOMTRAX gives you more control of your equipment and better control of your business!

KOMTRAX comes standard on all new Komatsu machines with complimentary manufacturer communications services throughout the entire ownership period. It is a powerful tool and makes Komatsu machines an even better purchase!

# **Fleet Optimization**

KOMTRAX tells you how your machines and operators are performing. KOMTRAX provides:

- Fuel consumption data and trends, by unit or fleet
- Machine fuel level
- Machine utilization
- Actual working hours/Machine idle hours
- Attachment usage hours
- Machine travel hours
- Machine load analysis
- Operating mode ratios

# **Location and Asset Management**

KOMTRAX tells you where your machines are and can help prevent unauthorized use. KOMTRAX provides:

- GPS location/Operation maps
- Out-of-area and movement alert with location and time
- Engine, nighttime, and calendar lock

# **Maintenance Management**

KOMTRAX monitors the health of your machines and provides critical information so that you, and your distributor, can take proactive maintenance measures and reduce downtime. KOMTRAX provides:

- Service Meter Reading (SMR)
- Cautions/Abnormality codes
- Maintenance replacement notifications

# **Easy and Flexible Access to Information**

With KOMTRAX, information about your machines is available through a convenient, internet-based portal. KOMTRAX provides:

- A user-friendly KOMTRAX website that provides customized access to your machine information
- E-mail and text alerts
- Web dial-up service
- Monthly fleet summary reports

For more information, including terms and conditions of the manufacturer complimentary KOMTRAX communication service, ask your distributor, pick up a KOMTRAX brochure, or go to www.komatsuamerica.com/komtrax.



For construction and compact equipment.



For production and mining class machines.

# PC210LC-10

# **KOMATSU PARTS & SERVICE SUPPORT**



Komatsu is an industry leader in building reliable and technologically advanced machines. It is only fitting that we would provide superior Product Support. Komatsu and its distributors are focused on providing their customers unparalleled Product Support throughout the entire lifecycle of the machine. It's called Komatsu CARE.

# Komatsu CARE – Complimentary Scheduled Maintenance

Komatsu remains focused on lowering the customer's ownership costs by engineering machines with increased fuel efficiency and productivity. In addition, one Komatsu CARE program aimed at further reducing your owning and operating costs is Complimentary Scheduled Maintenance. Komatsu machine owners can now rely on their Komatsu Distributor to perform the preventative maintenance on their Komatsu Tier 4 machines.

- Complimentary scheduled maintenance for the earlier of 3 years or 2,000 hours is standard on all Komatsu Tier 4 construction machines and is available at all distributors in the U.S. and Canada.
- Service is performed by factory certified technicians using only Komatsu Genuine parts and fluids
- Significantly lowers your cost of ownership while maintaining high equipment uptime and reliability
- Increases resale value and provides detailed maintenance records

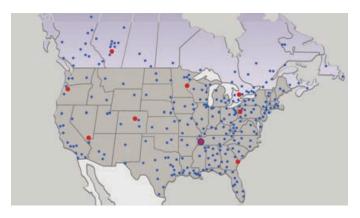
# Komatsu CARE - Extended Coverage

Komatsu equipment is built to withstand harsh operating environments, but our Extended Coverage can provide further peace of mind by protecting customers from unplanned expenses and impacts in cash flow. Purchasing Komatsu CARE's Extended Coverage locksin the cost of covered parts and labor for the extended warranty period and helps to turn these variable expenses into a fixed cost.

- No Stop Loss or Loss Limits imposed, regardless of the coverage type or repair expense
- Any combination of months and hours out to five years and 10,000 engine hours – KOWA kits included
- Coverage premium can be rolled into the machine financing at time of sale or purchased any time before the expiration of the machine's standard warranty
- Coverage is fully transferable and honored by all Komatsu distributors throughout the U.S. and Canada

### Komatsu CARE - Total CARE

Total CARE combines the benefits of the Komatsu CARE Scheduled Maintenance and Extended Coverage programs on your Tier 4 machine. This ensures the use of Komatsu genuine parts and fluids during regular maintenance intervals as well as highly skilled and efficient technicians to perform any other warranty repair work that might be necessary to keep your Komatsu equipment running like new.



# **Komatsu Parts Support**

Because downtime can be costly, Komatsu maintains a a strategic distribution network throughout the U.S. and Canada, to ensure superior parts availability and to keep your Komatsu machine up and running.

- Komatsu America has nine Parts Distribution Centers strategically located throughout the U.S. and Canada
- Komatsu America's Parts distribution network is accessible 24/7/365 to fulfill your parts needs
- Komatsu has a distributor network of over 325 locations across the U.S. and Canada
- Online parts ordering available through Komatsu eParts, 24/7/365. (See distributor for details)
- Komatsu offers a a full line of factory Remanufactured products with same-as-new warranties at a significant cost reduction:
  - 1. Complete Engine Assemblies
  - 2. Transmissions
  - 3. Torque Converters
  - 4. Hydraulic components
  - 5. Starters, Alternators, turbochargers and circuit boards

# Komatsu Oil and Wear Analysis (KOWA)

The KOWA program uses independent laboratories across the United States to determine how your machine is performing based on a small sample of oil or other fluid. Just like a doctor will take a blood test to check on your personal health, KOWA allows you to check how your equipment is performing. Used with PM Clinic and PM Tune Up, KOWA is one of your best tools for proactively maintaining your Komatsu equipment and maximizing it's availability and performance.

KOWA detects fuel dilution and coolant leaks, identifies contaminants, and measures wear-metals. Your distributor will help you interpret this information so you can identify potential problems and head them off before they lead to major repairs.

For more information of all of the manufacturer sponsored programs mentioned in this brochure, including terms and conditions of the individual programs, please speak with your distributor or go to www.komatsuamerica.com

# **SPECIFICATIONS**



### ENGINE

ModelKomatsu SAA6D107E-2*
TypeWater-cooled, 4-cycle, direct injection
AspirationTurbocharged, aftercooled, cooled EGR
Number of cylinders 6
Bore107 mm <b>4.21"</b>
Stroke
Piston displacement
Horsepower: SAE J1995
Fan drive method for radiator cooling Mechanical
Governor
*EPA Tier 4 Interim and EU stage 3B emissions certified



# **HYDRAULICS**

Type ....... HydrauMind (Hydraulic Mechanical Intelligence New Design) system, closed-center system with load sensing valves and pressure compensated valves

Number of selectable working modes	6

Main	pump:
IVICIII	pairip.

TypeVarial	ble displacement piston type
Pumps forBoom, arm, bucl	
Maximum flow	
Supply for control circuit	Self-reducing valve

# Hydraulc motors:

Travel 2 x	axial piston motors	with parking brake
Swing 1 x axial	piston motor with s	wing holding brake

# Relief valve setting:

Implement circuits	37.3 MPa 380 kg/cm <sup>2</sup> <b>5,400 psi</b>
Travel circuit	37.3 MPa 380 kg/cm <sup>2</sup> <b>5,400 psi</b>
Swing circuit	28.9 MPa 295 kg/cm <sup>2</sup> <b>4,190 psi</b>
Pilot circuit	3.2 MPa 33 kg/cm <sup>2</sup> <b>470 psi</b>

# Hydraulic cylinders:

(Number of cylinders – bore x stroke x rod diameter)

Boom .. 2–130 mm x 1334 mm x 90 mm **5.1"** x **52.5"** x **3.5"** Arm ......1–135 mm x 1490 mm x 95 mm **5.3"** x **58.7"** x **3.7"** Bucket.. 1–115 mm x 1120 mm x 80 mm **4.5"** x **44.1"** x **3.2"** 



# **DRIVES AND BRAKES**

Steering control	Two levers with pedals
Drive method	Hydrostatic
Maximum drawbar pull.	202 kN 20570 kg <b>45,349 lb</b>
Gradeability	70%, 35°
(Auto-Shift)	High
Service brake	Hydraulic lock
Parking brake	Mechanical disc brake



# SWING SYSTEM

Drive method	Hydrostatic
Swing reduction	Planetary gear
Swing circle lubrication	Grease-bathed
Service brake	Hydraulic lock
Holding brake/Swing lock	Mechanical disc brake
Swing speed	12.4 rpm
Swing torque	6900 kg•m <b>49.907 ft lbs</b>



# UNDERCARRIAGE

Center frame	X-frame
Track frame	Box-section
Seal of track	Sealed track
Track adjuster	Hydraulic
Number of shoes (each side)	49
Number of carrier rollers (each side)	2
Number of track rollers (each side)	9



# COOLANT & LUBRICANT CAPACITY

Fuel tank	400 ltr <b>105.7 U.S. gal</b>
Coolant	. 30.7 ltr <b>8.1 U.S. gal</b>
Engine	23.1 ltr <b>6.1 U.S. gal</b>
Final drive, each side	5.0 ltr <b>1.3 U.S. gal</b>
Swing drive	6.5 ltr <b>1.7 U.S. gal</b>
Hydraulic tank	132 ltr <b>34.9 U.S. gal</b>
Hydraulic system	234 ltr <b>61.8 U.S. gal</b>



# OPERATING WEIGHT (APPROXIMATE)

Operating weight includes 5700 mm **18'8"** one-piece boom, 2925 mm **9'7"** arm, SAE heaped 1.02 m³ **1.34 yd³** bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

Triple-Grouser Shoes	Operating Weight	Ground Pressure
700 mm	23323 kg	0.43 kg/cm <sup>2</sup>
28"	51,419 lb	6.2 psi
800 mm	23603 kg	0.38 kg/cm <sup>2</sup>
31.5"	52,036 lb	5.5 psi

# **Component Weights**

# Arm including bucket cylinder and linkage

2900 m	ım <b>9'7"</b> HD arm asser	nbly	1136 kg <b>2,505 lb</b>
2900 m	ım <b>9'7"</b> HD arm asser	nbly w/piping	1200 kg <b>2,646 lb</b>

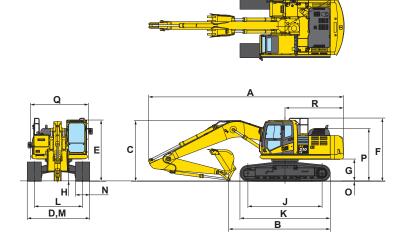
### One piece boom including arm cylinder

One piece boom including arm cylinder
5700 mm <b>18'8"</b> boom assembly
Boom cylinders x 2 205 kg <b>452 lb</b>
Counterweight (standard)
1.02 m <sup>3</sup> <b>1.34 yd<sup>3</sup></b> bucket - 42" width 857 kg <b>1,890 lb</b>

# **SPECIFICATIONS**

# **DIMENSIONS**

	Arm Length	2925 mm	9'7"
Α	Overall length	9625 mm	31'7"
В	Length on ground (transport)	5000 mm	16'5"
C	Overall height (to top of boom)*	2996 mm	9'10"
D	Overall width	3180 mm	10'5"
E	Overall height (to top of cab)*	3045 mm	10'0"
F	Overall height (to top of handrail)*	3135 mm	10'4"
G	Ground clearance, counterweight	1085 mm	3'7"
Н	Ground clearance, minimum	440 mm	1'5"
ı	Tail swing radius	2940 mm	9'8"
J	Track length on ground	3655 mm	12'0"
K	Track length	4450 mm	14'7"
L	Track gauge	2380 mm	7'10"
M	Width of crawler	3180 mm	10'5"
N	Shoe width	800 mm	31.5"
0	Grouser height	26 mm	1.0"
Р	Machine cab height	2605 mm	8'7"
Q	Machine cab width **	2850 mm	9'4"
R	Distance, swing center to rear end	2910 mm	9'7"





# BACKHOE BUCKET, ARM AND BOOM COMBINATION

Bucket			Buck	cet			5.7 m (18'8") Boo
Туре	Сар	acity	Wid	th	We	ight	2.9 m (9'7")
	0.50 m <sup>3</sup>	0.66 yd <sup>3</sup>	610 mm	24"	605 kg	1,334 lb	V
	0.67 m <sup>3</sup>	0.88 yd <sup>3</sup>	762 mm	30"	689 kg	1,518 lb	V
Komatsu TL	0.85 m <sup>3</sup>	1.11 yd³	914 mm	36"	780 kg	1,719 lb	V
IL.	1.02 m <sup>3</sup>	1.34 yd <sup>3</sup>	1067 mm	42"	857 kg	1,890 lb	W
	1.20 m <sup>3</sup>	1.57 yd <sup>3</sup>	1219 mm	48"	949 kg	2,092 lb	Χ
	0.50 m <sup>3</sup>	0.66 yd <sup>3</sup>	610 mm	24"	652 kg	1,437 lb	V
	0.67 m <sup>3</sup>	0.88 yd <sup>3</sup>	762 mm	30"	763 kg	1,681 lb	V
Komatsu HP	0.85 m <sup>3</sup>	1.11 yd³	914 mm	36"	868 kg	1,913 lb	V
H	1.02 m <sup>3</sup>	1.34 yd <sup>3</sup>	1067 mm	42"	950 kg	2,095 lb	W
	1.20 m <sup>3</sup>	1.57 yd <sup>3</sup>	1219 mm	48"	1066 kg	2,349 lb	Υ
	0.50 m <sup>3</sup>	0.66 yd <sup>3</sup>	610 mm	24"	724 kg	1,597 lb	V
	0.67 m <sup>3</sup>	0.88 yd <sup>3</sup>	762 mm	30"	840 kg	1,851 lb	V
Komatsu HPS	0.85 m <sup>3</sup>	1.11 yd³	914 mm	36"	962 kg	2,120 lb	V
TIFO	1.02 m <sup>3</sup>	1.34 yd <sup>3</sup>	1067 mm	42"	1061 kg	2,339 lb	Χ
	1.20 m <sup>3</sup>	1.57 yd <sup>3</sup>	1219 mm	48"	1193 kg	2,630 lb	Υ
	0.50 m <sup>3</sup>	0.66 yd <sup>3</sup>	610 mm	24"	824 kg	1,817 lb	V
	0.67 m <sup>3</sup>	0.88 yd <sup>3</sup>	762 mm	30"	939 kg	2,071 lb	V
Komatsu HPX	0.85 m <sup>3</sup>	1.11 yd³	914 mm	36"	1061 kg	2,340 lb	W
TIFA	1.02 m <sup>3</sup>	1.34 yd <sup>3</sup>	1067 mm	42"	1161 kg	2,559 lb	Χ
	1.20 m <sup>3</sup>	1.57 yd <sup>3</sup>	1219 mm	48"	1293 kg	2,850 lb	Υ

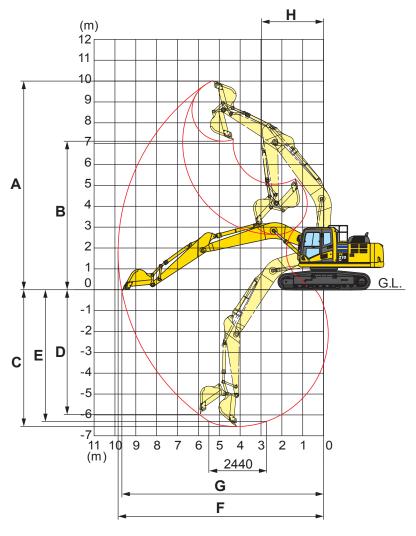
V - Used with material weights up to 3,500 lb/yd  $\!^{\!3}$ 

- X Used with material weights up to 2,500 lb/yd³
- Z Not useable

- W Used with material weights up to 3,000 lb/yd $^{3}$
- Y Used with material weights up to 2,000 lb/yd3

<sup>\*:</sup> Including grouser height
\*\*: Including handrail

# WORKING RANGE

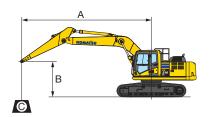


, i	Arm Length	2925 mm	9'7"
Α	Max. digging height	10000 mm	32'10"
В	Max. dumping height	7110 mm	23'4"
C	Max. digging depth	6620 mm	21'9"
D	Max. vertical wall digging depth	5980 mm	19'7"
E	Max. digging depth for 8' level bottom	6370 mm	20'11"
F	Max. digging reach	9875 mm	32'5"
G	Max. digging reach at ground level	9700 mm	31'10"
Н	Min. swing radius	3040 mm	10'0"
	Punkat digging force at newer may	132 kN	I
SAE rating	Bucket digging force at power max.	13500 kg / <b>2</b> 9	,762 lb
SAEr	Arm crowd force at power max.	103 kN	I
	Aim crowd force at power max.	10500 kg / <b>2</b> 3	3,149 lb
	Bucket digging force at power max.	149 kN	ı
SO rating	bushot digging force at power max.	15200 kg / <b>33</b>	3,510 lb
180	Arm crowd force at power max.	108 kN	I
_	74111 Oroma Toron at power max.	11000 kg / <b>2</b> 4	,250 lb

# LIFT CAPACITIES

# kg

# LIFTING CAPACITY WITH LIFTING MODE



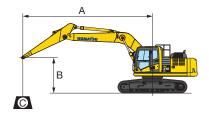
- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- : Rating at maximum reach

### Conditions:

- 5700 mm 18' 8" one-piece boom
- Counterweight: 4720 kg 10,406 lb
- Bucket: None
- Lifting mode: On

Arm: 2900 mm 9'7" HD		Shoes: 700	0 mm <b>28"</b>		Unit: kg lb
<b>A</b> 3.0 m <b>10'</b>	4.6 m <b>15'</b>	6.1 m <b>20'</b>	7.6 m <b>25'</b>	9.1 m <b>30'</b>	MAX
B Cf Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs
7.6 m <b>25'</b>				•	4100 4100
6.1 m <b>20</b> '		* 6500 6000 * <b>14400 13300</b>		•	3030 3030
4.0 111	* 8000 * 8000 * <b>17700 * 17700</b>	* 7150 5900 * <b>15850 13000</b> *	* 5250 4200 * <b>11550 9350</b>	•	3000 3000
3.0 111 12000 12000	* 10350 8500 * <b>22850 18800</b>	* 8250 5650 * <b>18250 12550</b>	6100 4150 <b>13450 9150</b>	•	3930 3030
1.0 111	* 12550 8050 * <b>27750 17800</b>	8250 5450 <b>18250 12050</b>	5950 4050 <b>13200 8950</b>	•	4200 3330
0 m * 7450 * 7450 0' * 16500 * 16500	12650 7800 <b>27950 17250</b>	8100 5300 <b>17850 11700</b>	5900 3950 <b>13000 8750</b>	•	4750 3650 1 <b>0450 8050</b>
-1.5 m * 12000 * 12000 -5' * <b>26500 * 26500</b>	12550 7750 <b>27750 17100</b>	8000 5250 17700 11550 3	* 5850 3950 <b>* 12900 8750</b>	•	5650 3950 <b>12500 8700</b>
-3.0 m * 18500 14800 -10' * 40850 32650	12650 7800 <b>27900 17200</b>	8050 5250 <b>17800 11650</b>			7000 4650 <b>15450 10300</b>
-4.6 m * 15000 * 15000 -15' * 33100 * 33100	* 10750 8050 * <b>23750 17800</b>				* 8950 6600 * <b>19750 14550</b>

\*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.



- 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:

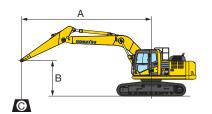
- 5700 mm 18' 8" one-piece boom
- Counterweight: 4720 kg 10,406 lb
- Bucket: None
- Lifting mode: On

Arm: 2900 mm 9'7" HD		Shoes: 800	0 mm <b>31.5"</b>		Unit: kg lb
A 3.0 m 10'	4.6 m <b>15'</b>	6.1 m <b>20'</b>	7.6 m <b>25'</b>	9.1 m <b>30'</b>	MAX
B Cf Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs
7.6 m <b>25'</b>				<b>,</b>	4100 4100
6.1 m <b>20 '</b>		* 6500 6100 * <b>14400 13400</b>		*	3030 3030
4.6 m <b>15'</b>	* 8000 * 8000 * <b>17700 * 17700</b>	* 7150 5950 * <b>15850 13100</b>	* 5250 4250 * <b>11550 9450</b>	*	3000 3000
3.0 m * 12800 * 12800 10' * 28300 * 28300	* 10350 8600 * <b>22850 19000</b>	* 8250 5700 * <b>18250 12650</b>	6150 4200 <b>13600 9250</b>	,	3930 3700
1.5 m <b>5'</b>	* 12550 8150 * <b>27750 18000</b>	8350 5500 <b>18450 12150</b>	6050 4100 <b>13350 9050</b>	y *	4200 3000
0 m * 7450 * 7450 0' * 16500 * 16500	12800 7900 <b>28250 17400</b>	8200 5350 <b>18050 11850</b>	5950 4000 <b>13150 8850</b>	*	4750 3650 1 <b>0450 8150</b>
-1.5 m * 12000 * 12000 -5' * <b>26500 * 26500</b>	12700 7800 <b>28050 17250</b>	8100 5300 <b>17900 11700</b>	* 5850 4000 * <b>12900 8800</b>	; ;	5650 4000 1 <b>12500 8800</b>
-3.0 m * 18500 14950 -10' * 40850 33000	12800 7850 <b>28200 17400</b>	8150 5350 <b>18000 11800</b>			7100 4700 <b>15650 10400</b>
-4.6 m * 15000 * 15000 -15' * 33100 * 33100	* 10750 8150 * <b>23750 18000</b>			*	0930 0030

\*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.



# LIFTING CAPACITY WITH LIFTING MODE



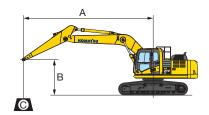
- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- : Rating at maximum reach

### Conditions:

- 5700 mm 18' 8" one-piece boom
- Counterweight: 3600 kg 7,937 lb
- Bucket: None
- Lifting mode: On

<b>Arm:</b> 2900 mm <b>9'7"</b> HD		<b>Shoes:</b> 700	mm <b>28"</b>		Unit: kg lb
A 3.0 m 10'	4.6 m <b>15'</b>	6.1 m <b>20'</b>	7.6 m <b>25'</b>	9.1 m <b>30'</b>	■ MAX
B Cf Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs
7.6 m <b>25'</b>					* 4100 * 4100 * <b>9050 * 9050</b>
6.1 m <b>20 '</b>	*	0000 0000			* 3850 * 3850 * <b>8500 * 8500</b>
4.6 m * <b>15'</b> *	8000 8000	7130 3200	5250 3700 5 <b>11550 8250</b>		* 3800 3500 * <b>8400 7750</b>
3.0 m * 12800 * 12800 * <b>10'</b> * <b>28300 * 28300 *</b>	10350 7550 <b>22850 16700</b>	7650 5000 <b>16900 11050</b>	5450 3650 <b>12050 8050</b>		* 3950 3200 * <b>8700 7100</b>
1.5 m <b>5'</b>	11650 7100 <b>25650 15650</b>	7400 4800 <b>16350 10600</b>	5350 3550 <b>11800 7800</b>		* 4200 3100 * <b>9300 6900</b>
0 m * 7450 * 7450 <b>0' * 16500 * 16500</b>	11300 6850 <b>25000 15100</b>	7250 4650 <b>16000 10250</b>	5250 3450 <b>11650 7650</b>		* 4750 3150 * <b>10450 7000</b>
-1.5 m * 12000 * 12000 -5' * <b>26500 * 26500</b>	11250 6750 <b>24800 14950</b>	7150 4550 <b>15800 10100</b>	5250 3450 <b>11600 7600</b>		* 5250 3450 * <b>11550 7600</b>
-3.0 m * 18500 13000 -10' * 40850 28700	11300 6800 <b>24950 15100</b>	7200 4600 <b>15900 10200</b>			6250 4050 <b>13850 9000</b>
-4.6 m * 15000 * 15000 * <b>-15'</b> * <b>33100</b> * <b>33100</b> *	10750 7100 <b>23750 15700</b>				* 8950 5800 <b>* 19750 12800</b>

\*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.



- 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:

- 5700 mm **18' 8"** one-piece boom
- Counterweight: 3600 kg 7,937 lb
- Bucket: None
- Lifting mode: On

Arm: 2900 mm 9'7" HD		Shoes: 80	0 mm <b>31.5"</b>		Unit: kg lb
A 3.0 m 10'	4.6 m <b>15'</b>	6.1 m <b>20'</b>	7.6 m <b>25'</b>	9.1 m <b>30'</b>	■ MAX
B Cf Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs
7.6 m <b>25'</b>					* 4100 * 4100 * <b>9050 * 9050</b>
6.1 m <b>20 '</b>		* 6500 5400 * <b>14400 11950</b>			* 3850 * 3850 * <b>8500 * 8500</b>
4.0 111	* 8000 * 8000 * <b>17700 * 17700</b>	* 7150 5300 * <b>15850 11650</b>	* 5250 3750 * <b>11550 8350</b>		* 3800 3550 * <b>8400 7850</b>
3.0 m * 12800 * 12800 * 10' * 28300 * 28300 *	* 10350 7650 * <b>22850 16850</b>	7750 5050 <b>17100 11200</b>	5500 3700 <b>12200 8150</b>		* 3950 3250 * <b>8700 7200</b>
1.5 m <b>5'</b>	11750 7200 <b>25950 15850</b>	7500 4850 <b>16550 10700</b>	5400 3600 <b>11950 7900</b>		* 4200 3150 * <b>9300 6950</b>
0 m * 7450 * 7450 0' * <b>16500 * 16500</b>	11450 6900 <b>25300 15300</b>	7300 4700 <b>16200 10400</b>	5350 3500 <b>11750 7750</b>		* 4750 3200 * <b>10450 7100</b>
-1.5 m * 12000 * 12000 -5' * <b>26500 * 26500</b>	11350 6850 <b>25100 15100</b>	7250 4650 <b>16000 10250</b>	5300 3500 <b>11750 7700</b>		5300 3500 <b>11700 7700</b>
-3.0 m * 18500 13150 -10' * 40850 29050	11450 6900 <b>25250 15250</b>	7300 4650 <b>16100 10300</b>			6350 4100 <b>14000 9100</b>
-4.6 m * 15000 13550 3 <b>-15'</b> * <b>33100 29850</b> 3	* 10750 7200 <b>* 23750 15850</b>				* 8950 5850 * <b>19750 12950</b>

\*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

- Alternator, 60 Ampere, 24V
- AM/FM radio
- Automatic engine warm-up system
- Automatic air conditioner/heater
- Auxiliary input (3.5mm jack)
- Batteries, large capacity
- Battery disconnect switch
- Boom and arm holding valves
- Converter, (2) x 12V
- Counterweight, 4720 kg 10,406 lb
- Dry type air cleaner, double element
- Electric horn
- EMMS monitoring system
- Engine, Komatsu SAA6D107E-2
- Engine overheat prevention system
- Extended work equipment grease interval
- Fan guard structure

- Fuel system pre-cleaner 10 micron
- High back air suspension seat, with heat
- Hydraulic track adjusters
- KOMTRAX® Level 4.0
- Large LCD color monitor, high resolution
- Lock lever
- Mirrors, (LH and RH)
- Operator Protective Top Guard (OPG), Level 1
- 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
- Seat belt, retractable, 76mm 3"
- Seat belt indicator
- Secondary engine shutoff switch
- Service valve
- Shoes, triple grouser, 800mm 31.5"
- Skylight
- Slip resistant foot plates
- Starter motor, 5.5kW/24V x 1
- Suction fan
- Thermal and fan guards
- Track frame undercover
- Travel alarm
- Working lights, 2 (boom and RH front)
- Working mode selection system



# **OPTIONAL EQUIPMENT**

- (1) additional rearview camera
- Arms
  - 2925 mm 9'7" arm assembly
  - 2925 mm 9'7" HD arm assembly
- 2925 mm **9'7"** HD arm assembly with piping
- Booms
  - 5700 mm **18'8"** boom assembly
  - 5700 mm **18'8"** HD boom assembly with piping
- Cab guards
  - Full front guard, OPG Level 1
  - Full front guard, OPG Level 2
  - Bolt-on top guard, OPG Level 2
  - Lower front window guard
- Counterweight, 3600 kg 7,937 lb
- High pressure in-line hydraulic filters
- Hydraulic control unit, 1 actuator
- Rain visor
- Revolving frame undercovers, heavy duty
- Shoes, triple grouser, 700 mm 28"
- Sun visor

- Straight travel pedal
- Track roller guards, full length
- Working light, front, one additional



# ATTACHMENT OPTIONS

- Cab air pre-cleaner
- Grade control systems
- Hydraulic couplers
- Hydraulic kits, field installed
- Super long fronts

- PSM thumbs
- Rockland thumbsVandalism protection guards with storage box

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

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