KOMATSU®

PC290LC-10

Tier 4 Interim Engine

PC290LC

NET HORSEPOWER
196 HP @ 2050 rpm
147 kW @ 2050 rpm

OPERATING WEIGHT
67,396–68,654 lb
30570–31141 kg

BUCKET CAPACITY
0.76–2.13 yd³
0.58–1.63 m³

PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT

WALK-AROUND

Photos may include optional equipment

NET HORSEPOWER	OPERATING WEIGHT	BUCKET CAPACITY
196 HP @ 2050 rpm	**67,396–68,654 lb**	**0.76–2.13 yd³**
147 kW @ 2050 rpm	30570–31141 kg	0.58–1.63 m³

KOMATSU CARE™

INCREASED REACH & LOW FUEL CONSUMPTION

A new boom and arm design increases the working range of the machine for more digging reach.

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 147 kW **196 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.

Komatsu Closed Center Load Sensing (CLSS) hydraulic system provides quick response amd smooth operation to maximize productivity.

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.

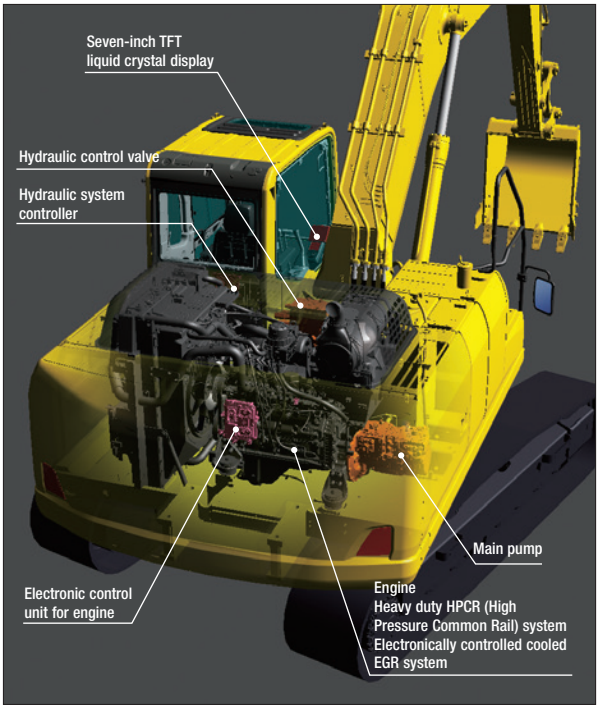
Battery disconnect switch allows a technician to disconnect the power supply before servicing the machine.

Robust undercarriage design uses many of the same components that are used on larger machines.

KOMTRAX®

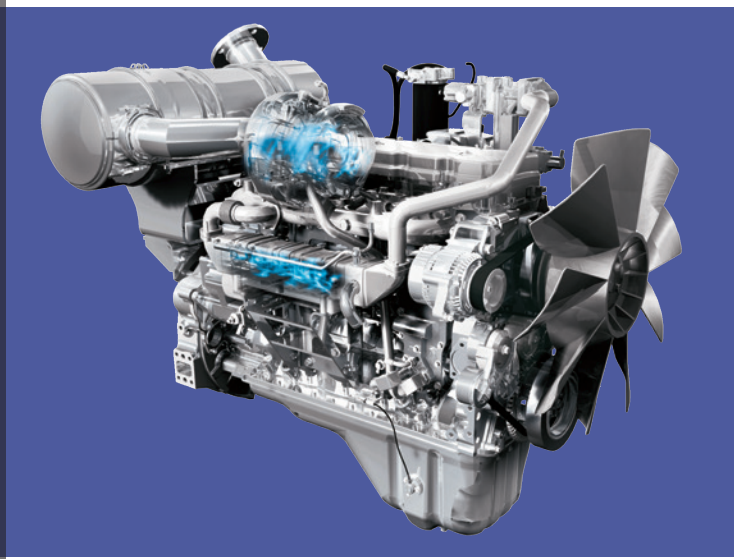
Komtrax equipped machines can send location, SMR and operation maps to a secure website utilizing wireless technology. Machines also relay error codes, cautions, maintenance items, fuel levels, and much more.

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

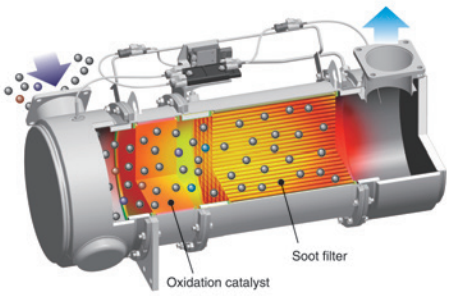
The Komatsu SAA6D107E-2 engine is EPA Tier 4 Interim and EU Stage 3B emissions certified and provides exceptional performance while reducing fuel consumption. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces exhaust gas particulate matter (PM) by more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

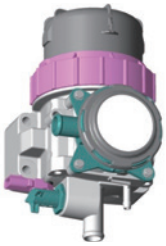
Komatsu has developed a high efficiency diesel particulate filter that captures more than 90% of particulate matter. Both passive and active regeneration are automatically initiated by the engine controller depending on the soot level of the KDPF. A special oxidation catalyst with a fuel injection system 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.



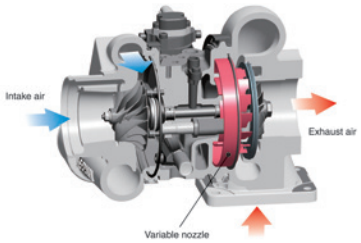
Closed Crankcase Ventilation (CCV)

Crankcase emissions (blow-by 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.



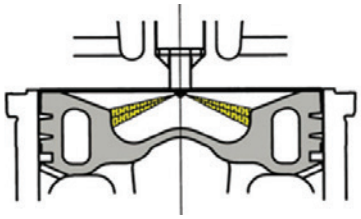
Komatsu Variable Geometry Turbocharger (KVGT)

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.

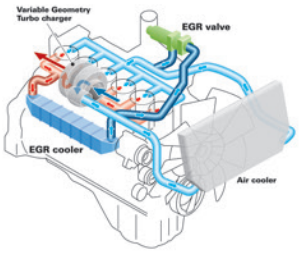


Low Operational Noise

The PC290LC-10 provides low noise operation using a low noise engine and methods that reduce noise at the source such as sound absorbing materials.

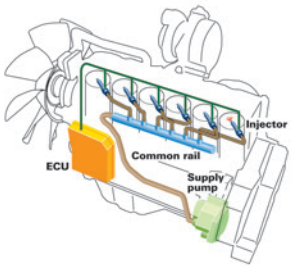
Cooled Exhaust Gas Recirculation (EGR)

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 PC290LC-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):

132 kN (13.4 t) ➡ **141 kN (14.4 t)** **7 % UP**
(with Power Max.)

Maximum bucket digging force (ISO):

184 kN (18.8 t) ➡ **198 kN (20.2 t)** **8 % UP**
(with Power Max.)

* Measured with Power Max function, 3200 mm arm and ISO rating

PERFORMANCE FEATURES

Efficient Hydraulic System

The PC290LC-10 uses a Closed Center Load Sensing (CLSS) hydraulic system that improves fuel efficiency and provides quick response to the operator's demands.

The PC290LC-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 PC270LC-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.

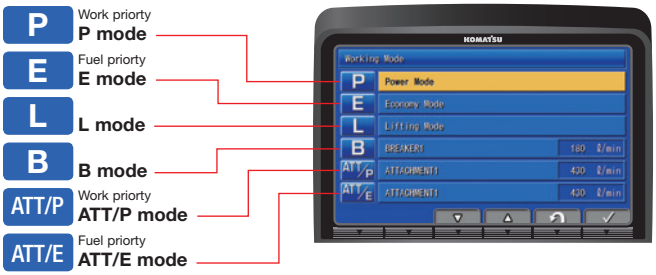
Idling Caution

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 PC290LC-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 PC290LC-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
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

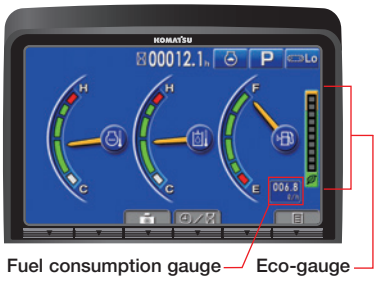


New Work Equipment Design

A new reach boom and arm design provides between one and two feet of additional digging reach.

Eco-Gauge Assists with Energy Saving Operations

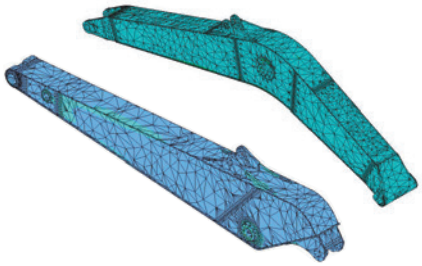
The Eco-gauge and new fuel consumption gauge are viewed on the right side of the color monitor and assist the operator in maintaining low fuel consumption and environment friendly operation.



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

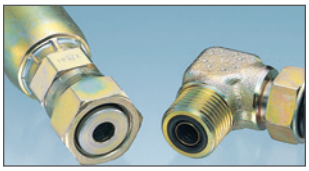
A new high efficiency dual element fuel filter improves fuel system reliability.

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.

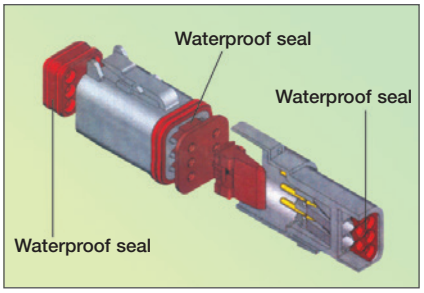
Highly Reliable Electronic Devices

Exclusively designed electronic devices have passed severe testing.

• Controllers • Sensors • Connectors • Heat Resistant Wiring

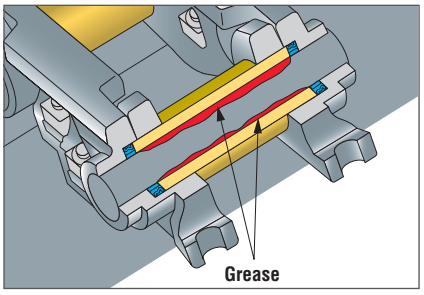
DT-type Connectors

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



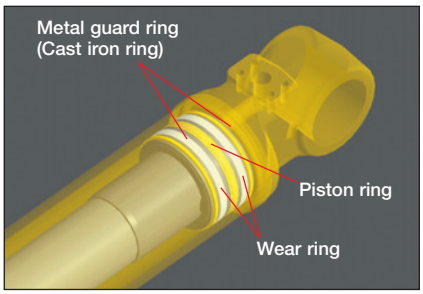
Grease Sealed Track

The PC290LC-10 uses grease sealed tracks for extended undercarriage life.



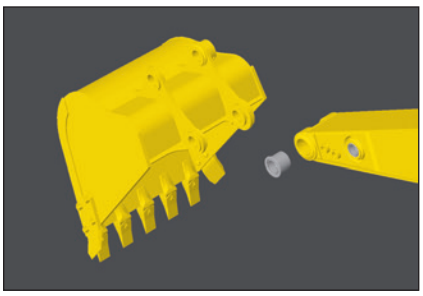
Metal Guard Rings

The PC290LC-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.



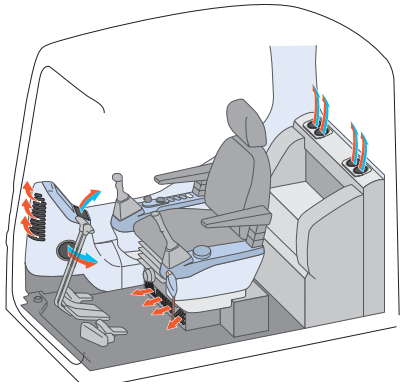
Robust Undercarriage Design

The PC290LC-10 has a robust undercarriage design using many of the same components that are used on larger machines, such as the links, shoes, rollers, and idlers.

WORKING ENVIRONMENT

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.



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.

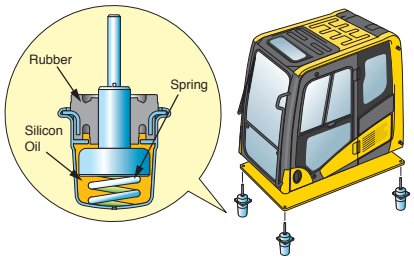
- Heated
- Air Suspension
- Integrated Seat
- Console Mounted Arm Rests

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 PC290LC-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.

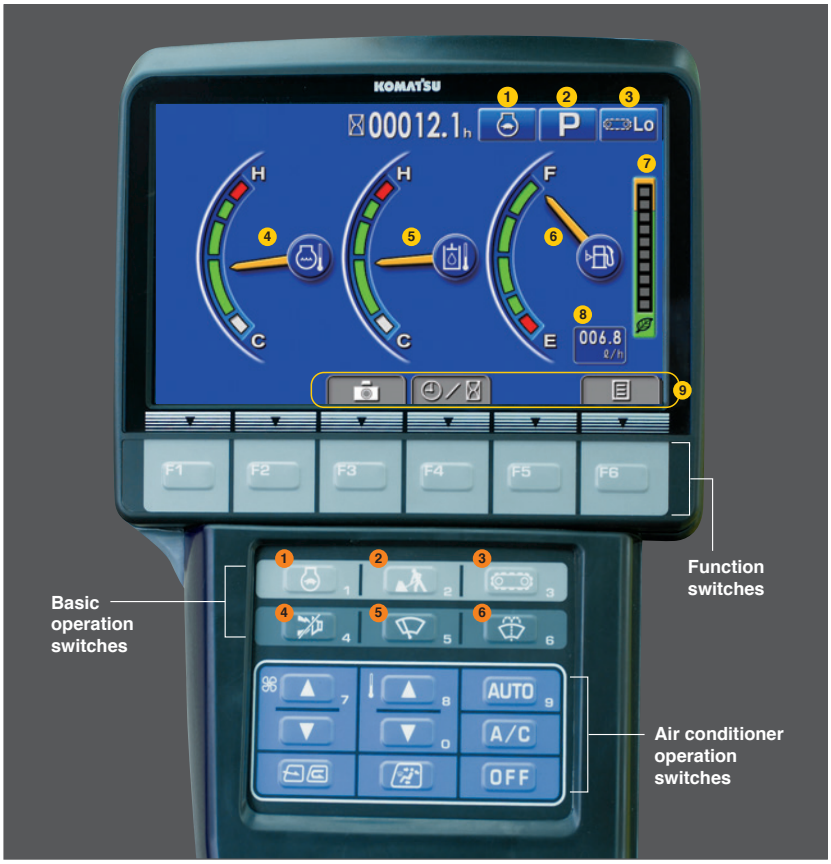


Low Cab Noise

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.

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.

Indicators

1. Auto-decelerator
2. Working mode
3. Travel speed
4. Engine water temperature gauge
5. Hydraulic oil temperature gauge
6. Fuel gauge
7. Eco-gauge
8. Fuel consumption gauge
9. Function switches menu

Basic operation switches

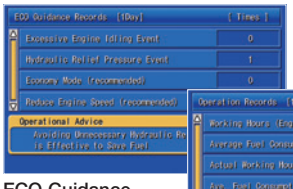
1. Auto-decelerator
2. Working mode selector
3. Traveling selector
4. Buzzer cancel
5. Wiper
6. Windshield washer

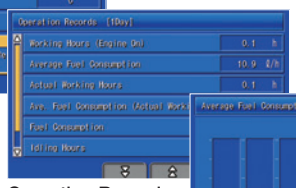
Operational "ECO" Guidance

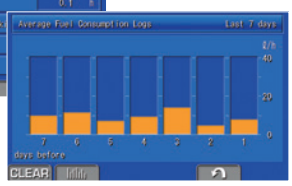
The monitor panel provides operational advice to the operator to help improve machine efficiency and lower fuel consumption. The operator can access the ECO guidance menu to check the Operation Records, Eco Guidance Records, and Average Fuel Consumption Logs.


ECO Guidance


ECO Guidance menu


ECO Guidance Records


Operation Records


Average Fuel Consumption Logs

Improved Attachment Control

The PC290LC-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.

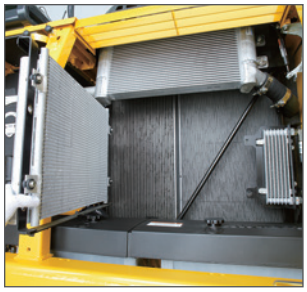

Attachment Setting Screen


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.

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

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.

Equipped with Eco-drain Valve

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

Equipment Management Monitoring System (EMMS)

The PC290LC-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.

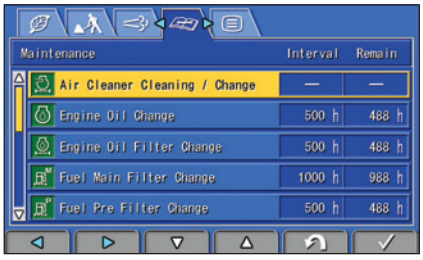
The monitor also stores a record of abnormalities for more effective troubleshooting.

Advanced Monitoring System

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

Maintenance Tracking

When the machine approaches or exceeds the oil and filter replacement interval, the monitor panel will display lights to inform the operator.



Photos may include optional equipment

GENERAL FEATURES

ROPS Cab Design

The PC290LC-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 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 **aids in making repair or replacement decisions**

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 was done** and help you plan for future maintenance needs

WHERE

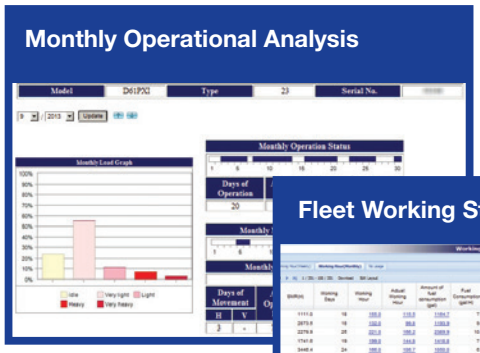
- KOMTRAX data **can be accessed virtually anywhere** through your computer, the web or your smart phone
- Automatic alerts keep fleet managers up to date on the latest machine notifications

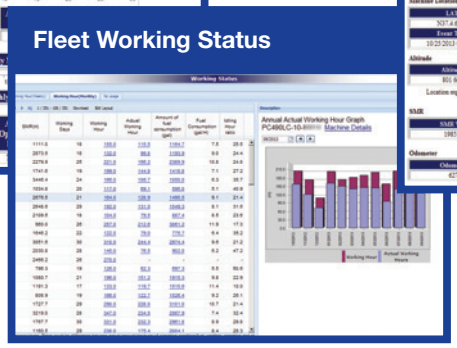
WHO

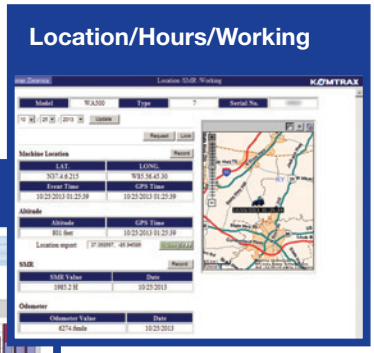
- KOMTRAX is **standard** equipment on all Komatsu construction products

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







KOMTRAX®

For construction and compact equipment.

KOMTRAX Plus™

For production and mining class machines.

KOMATSU PARTS & SERVICE SUPPORT

Komatsu CARE – Complimentary Scheduled Maintenance

- PM services for the earlier of 3 years / 2000 hours
- Performed by factory certified technicians
- Komatsu Genuine parts and fluids
- Significantly lowers your cost of ownership while maintaining high uptime and reliability
- Increases resale value and provides detailed maintenance records
- Extended PM services can be purchased beyond the complimentary period to provide additional peace of mind and maximize uptime

Komatsu CARE – Extended Coverage

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

Komatsu Parts Support

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

Komatsu Oil and Wear Analysis (KOWA)

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

SPECIFICATIONS

ENGINE

Model ..... Komatsu SAA6D107E-2*
Type ..... Water-cooled, 4-cycle, direct injection
Aspiration ..... Turbocharged, aftercooled, cooled EGR
Number of cylinders 6
Bore ..... 107 mm **4.21"**
Stroke ..... 124 mm **4.88"**
Piston displacement ..... 6.69 ltr **408 in³**
Horsepower:
SAE J1995 ..... Gross 159 kW **213 HP**
ISO 9249 / SAE J1349 ..... Net 147 kW **196 HP**
Rated rpm 2050
Fan drive method for radiator cooling ..... Mechanical
Governor ..... All-speed control, electronic
*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:
Type ..... Variable displacement piston type
Pumps for ..... Boom, arm, bucket, swing, and travel circuits
Maximum flow ..... 479 ltr/min **126.5 gal/min**
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 swing holding brake
Relief valve setting:
Implement circuits ..... 37.3 MPa 380 kg/cm² **5,400 psi**
Travel circuit ..... 37.3 MPa 380 kg/cm² **5,400 psi**
Swing circuit ..... 28.9 MPa 295 kg/cm² **4,190 psi**
Pilot circuit ..... 3.2 MPa 33 kg/cm² **470 psi**
Hydraulic cylinders:
(Number of cylinders – bore x stroke x rod diameter)
Boom 2–140 mm x 1300 mm x 100 mm **5.5" x 51.2" x 3.9"**
Arm ... 1–150 mm x 1635 mm x 110 mm **5.9" x 64.3" x 4.3"**
Bucket 1–140 mm x 1009 mm x 100 mm **5.5" x 39.7" x 3.9"**

DRIVES AND BRAKES

Steering control ..... Two levers with pedals
Drive method ..... Hydrostatic
Maximum drawbar pull ..... 249 kN 25400 kg **56,000 lb**
Gradeability ..... 70%, 35°
Maximum travel speed: High ..... 5.5 km/h **3.4 mph**
(Auto-Shift) Mid ..... 4.1 km/h **2.5 mph**
(Auto-Shift) Low ..... 3.0 km/h **1.9 mph**
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 ..... 10.5 rpm
Swing torque ..... 8889 kg•m **64,292 ft lbs**

UNDERCARRIAGE

Center frame ..... X-frame
Track frame ..... Box-section
Seal of track ..... Sealed track
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 ..... 400 ltr **105.7 U.S. gal**
Coolant ..... 36 ltr **9.5 U.S. gal**
Engine ..... 23.1 ltr **6.1 U.S. gal**
Final drive, each side ..... 8.5 ltr **2.2 U.S. gal**
Swing drive ..... 7.2 ltr **1.9 U.S. gal**
Hydraulic tank ..... 132 ltr **34.9 U.S. gal**
Hydraulic system ..... 250 ltr **66.0 U.S. gal**

OPERATING WEIGHT (APPROXIMATE)

Operating weight includes 6150 mm **20'2"** one-piece boom, 3200 mm **10'6"** arm, SAE heaped 1.41 m³ **1.85 yd³** bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

Triple-Grouser Shoes	Operating Weight	Ground Pressure
700 mm	30570 kg	0.50 kg/cm²
28"	**67,396 lb**	**7.17 psi**
800 mm	30950 kg	0.45 kg/cm²
31.5"	**68,234 lb**	**6.36 psi**
850 mm	31141 kg	0.42 kg/cm²
33.5"	**68,654 lb**	**6.01 psi**

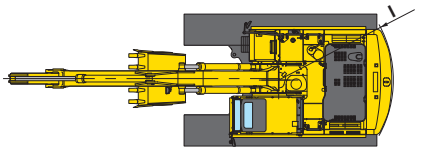
Component Weights

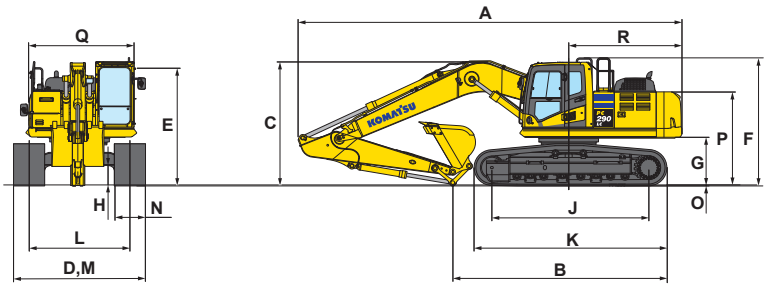
Arm including bucket cylinder and linkage
3200 mm **10'6"** arm assembly ..... 1432 kg **3,157 lb**
3500 mm **11'6"** arm assembly ..... 1504 kg **3,316 lb**
One piece boom including arm cylinder
6150 mm **20'2"** boom asssembly ..... 2448 kg **5,397 lb**
Boom cylinders x 2 ..... 231 kg **509 lb**
Counterweight ..... 5510 kg **12,148 lb**
1.41 m³ **1.85 yd³** bucket - 48" width ..... 1088 kg **2,399 lb**

SPECIFICATIONS

DIMENSIONS

	Arm Length	3200 mm	10'6"	3500 mm	11'6"
A	Overall length	10185 mm	33'5"	10195 mm	33'5"
B	Length on ground (transport)	5625 mm	18'5"	5350 mm	17'7"
C	Overall height (to top of boom)*	3340 mm	11'0"	3375 mm	11'1"
D	Overall width	3390 mm	11'1"		
E	Overall height (to top of cab)*	3180 mm	10'5"		
F	Overall height (to top of handrail)*	3275 mm	10'9"		
G	Ground clearance, counterweight	1215 mm	4'0"		
H	Ground clearance, minimum	498 mm	1'8"		
I	Tail swing radius	2940 mm	9'8"		
J	Track length on ground	4030 mm	13'3"		
K	Track length	4955 mm	16'3"		
L	Track gauge	2590 mm	8'6"		
M	Width of crawler	3390 mm	11'1"		
N	Shoe width	800 mm	31.5"		
O	Grouser height	36 mm	1.4"		
P	Machine cab height	2380 mm	7'10"		
Q	Machine cab width **	2850 mm	9'4"		
R	Distance, swing center to rear end	2905 mm	9'6"		





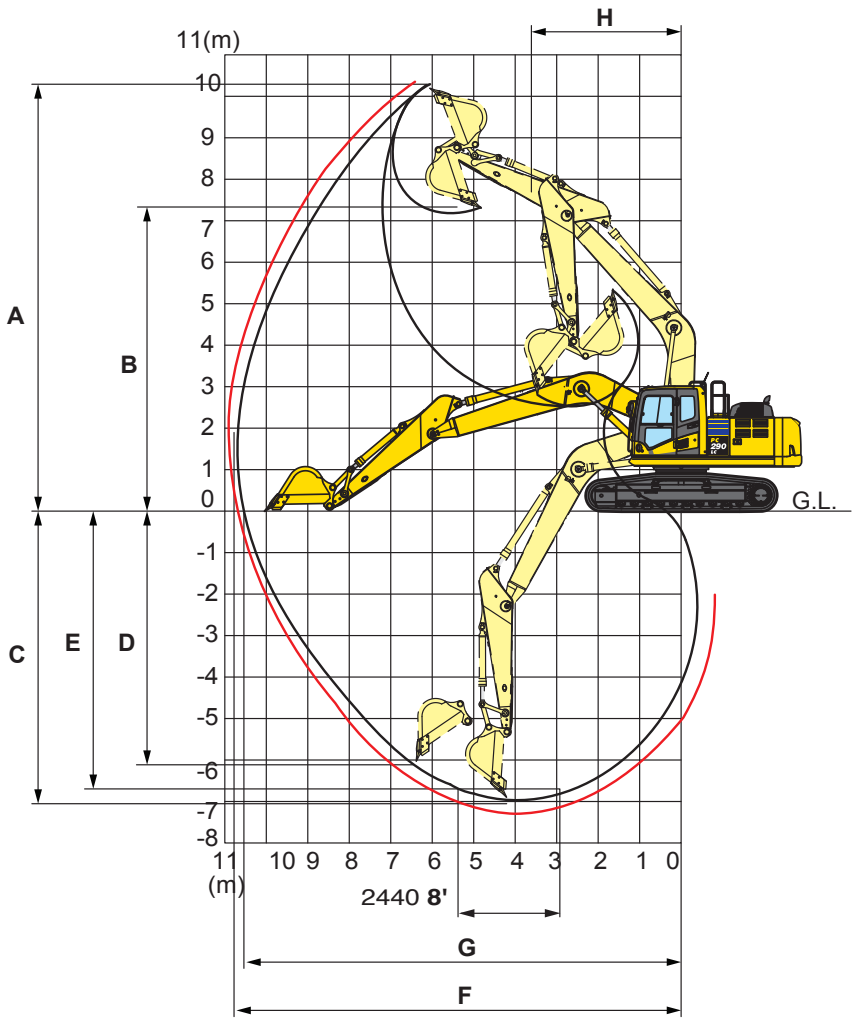
* : Including grouser height ** : Including handrail

BACKHOE BUCKET, ARM AND BOOM COMBINATION

Bucket Type	Bucket Capacity		Bucket Width		Bucket Weight		6.15 m (20'2") Boom 3.2 m (10'6")	6.15 m (20'2") Boom 3.5 m (11'6")
Komatsu TL	0.58 m³	0.76 yd³	610 mm	24"	687 kg	1514 lb	V	V
	0.78 m³	1.02 yd³	762 mm	30"	807 kg	1779 lb	V	V
	0.99 m³	1.29 yd³	914 mm	36"	907 kg	2000 lb	V	V
	1.20 m³	1.57 yd³	1067 mm	42"	949 kg	2178 lb	V	V
	1.41 m³	1.85 yd³	1219 mm	48"	1045 kg	2399 lb	W	W
	1.63 m³	2.13 yd³	1372 mm	54"	1168 kg	2576 lb	W	X
Komatsu HP	0.58 m³	0.76 yd³	610 mm	24"	812 kg	1791 lb	V	V
	0.78 m³	1.02 yd³	762 mm	30"	931 kg	2053 lb	V	V
	0.99 m³	1.29 yd³	914 mm	36"	1054 kg	2323 lb	V	V
	1.20 m³	1.57 yd³	1067 mm	42"	1154 kg	2545 lb	V	V
	1.41 m³	1.85 yd³	1219 mm	48"	1278 kg	2817 lb	W	W
	1.63 m³	2.13 yd³	1372 mm	54"	1404 kg	3095 lb	W	X
Komatsu HPS	0.58 m³	0.76 yd³	610 mm	24"	870 kg	1917 lb	V	V
	0.78 m³	1.02 yd³	762 mm	30"	1020 kg	2248 lb	V	V
	0.99 m³	1.29 yd³	914 mm	36"	1162 kg	2562 lb	V	V
	1.20 m³	1.57 yd³	1067 mm	42"	1282 kg	2827 lb	V	V
	1.41 m³	1.85 yd³	1219 mm	48"	1425 kg	3142 lb	W	X
	1.63 m³	2.13 yd³	1372 mm	54"	1571 kg	3464 lb	X	Y
Komatsu HPX	0.58 m³	0.76 yd³	610 mm	24"	987 kg	2177 lb	V	V
	0.78 m³	1.02 yd³	762 mm	30"	1138 kg	2508 lb	V	V
	0.99 m³	1.29 yd³	914 mm	36"	1280 kg	2822 lb	V	V
	1.20 m³	1.57 yd³	1067 mm	42"	1400 kg	3087 lb	V	W
	1.41 m³	1.85 yd³	1219 mm	48"	1543 kg	3402 lb	W	X
	1.63 m³	2.13 yd³	1372 mm	54"	1689 kg	3724 lb	X	Y

V - Used with material weights up to 3,500 lb/yd³ X - Used with material weights up to 2,500 lb/yd³ Z - Not useable
W - Used with material weights up to 3,000 lb/yd³ Y - Used with material weights up to 2,000 lb/yd³

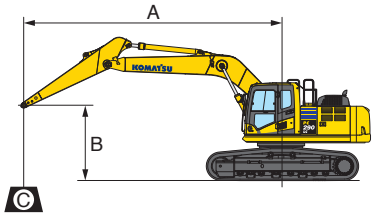
WORKING RANGE



	Arm Length	3200 mm	10'6"	3500 mm	11'6"
A	Max. digging height	10345 mm	**33'11"**	10355 mm	**34'0"**
B	Max. dumping height	7370 mm	**24'2"**	7435 mm	**24'5"**
C	Max. digging depth	6915 mm	**22'8"**	7220 mm	**23'8"**
D	Max. vertical wall digging depth	6135 mm	**20'2"**	6440 mm	**21'2"**
E	Max. digging depth for 8' level bottom	6755 mm	**22'2"**	7070 mm	**23'2"**
F	Max. digging reach	10635 mm	**34'11"**	10890 mm	**35'9"**
G	Max. digging reach at ground level	10455 mm	**34'4"**	10715 mm	**35'2"**
H	Min. swing radius	3680 mm	**12'1"**	3740 mm	**12'3"**
SAE rating	Bucket digging force at power max.	176 kN 17900 kg / **39,460 lb**		176 kN 17900 kg / **39,460 lb**	
	Arm crowd force at power max.	129 kN 13140 kg / **28,969 lb**		121 kN 12361 kg / **27,252 lb**	
ISO rating	Bucket digging force at power max.	198 kN 20200 kg / **44,530 lb**		198 kN 20200 kg / **44,530 lb**	
	Arm crowd force at power max.	134 kN 13622 kg / **30,032 lb**		125 kN 12787 kg / **28,191 lb**	

LIFT CAPACITIES

LIFTING CAPACITY WITH LIFTING MODE



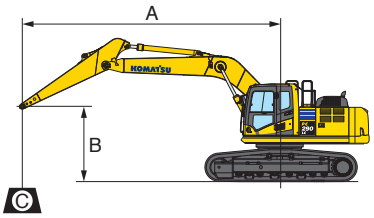
A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
⊗ : Rating at maximum reach

Conditions :
- Boom lenght: 6150 mm **20' 2"**
- Bucket: None
- Lifting mode: On

Arm: 3200 mm **10'6"** **Shoes:** 800 mm **31.5"** **Unit:** kg **lb**

A / B	3.0 m **10'**		4.6 m **15'**		6.1 m **20'**		7.6 m **25'**		9.1 m **30'**		⊗ **MAX**	
	Cf	**Cs**	**Cf**	**Cs**	**Cf**	**Cs**	**Cf**	**Cs**	**Cf**	**Cs**	**Cf**	**Cs**
7.6 m **25'**											* 4700 * **10400**	* 4700 * **10400**
6.1 m **20 '**					* 7350 * **16200**	* 7350 * **16200**	* 6350 * **14000**	5900 **13000**			* 4500 * **10000**	* 4500 * **10000**
4.6 m **15'**			* 9700 * **21400**	* 9700 * **21400**	* 8300 * **18300**	8100 **17900**	* 7550 * **16700**	5800 **12800**			* 4500 * **10000**	* 4500 * **10000**
3.0 m **10'**			* 12400 * **27300**	11700 **25800**	* 9550 * **21100**	7750 **17100**	* 8200 * **18100**	5650 **12400**			* 4650 * **10300**	4400 **9700**
1.5 m **5'**			* 14700 * **32400**	11000 **24300**	* 10800 * **23800**	7400 **16300**	8350 **18400**	5450 **12100**			* 5000 * **11000**	4300 **9500**
0 m **0'**	* 7350 * **16200**	* 7350 * **16200**	* 15850 * **34900**	10650 **23400**	11350 **25000**	7150 **15800**	8200 **18100**	5350 **11800**			* 5500 * **12200**	4350 **9600**
-1.5 m **-5'**	* 12550 * **27700**	* 12550 * **27700**	* 15850 * **35000**	10500 **23200**	11200 **24700**	7050 **15500**	8100 **17900**	5250 **11600**			* 6450 * **14200**	4650 **10300**
-3.0 m **-10'**	* 19300 * **42500**	* 19300 * **42500**	* 14900 * **32900**	10550 **23300**	11250 **24800**	7050 **15600**					* 8200 * **18100**	5350 **11800**
-4.6 m **-15'**	* 17100 * **37700**	* 17100 * **37700**	* 12600 * **27800**	10800 **23800**	* 9250 * **20400**	7250 **16000**					* 8800 * **19400**	6950 **15400**

*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

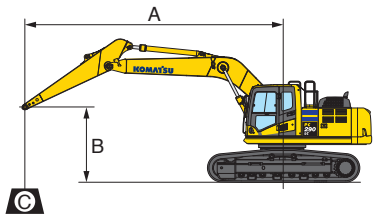
Conditions :
- Boom lenght: 6150 mm **20' 2"**
- Bucket: None
- Lifting mode: On

Arm: 3200 mm **10'6"** **Shoes:** 850 mm **33.5"** **Unit:** kg **lb**

A / B	3.0 m **10'**		4.6 m **15'**		6.1 m **20'**		7.6 m **25'**		9.1 m **30'**		⊗ **MAX**	
	Cf	**Cs**	**Cf**	**Cs**	**Cf**	**Cs**	**Cf**	**Cs**	**Cf**	**Cs**	**Cf**	**Cs**
7.6 m **25'**											* 4700 * **10400**	* 4700 * **10400**
6.1 m **20 '**					* 7350 * **16200**	* 7350 * **16200**	* 6350 * **14000**	5950 **13100**			* 4500 * **10000**	* 4500 * **10000**
4.6 m **15'**			* 9700 * **21400**	* 9700 * **21400**	* 8300 * **18300**	8150 **18000**	* 7550 * **16700**	5850 **12900**			* 4500 * **10000**	* 4500 * **10000**
3.0 m **10'**			* 12400 * **27300**	11750 **26000**	* 9550 * **21100**	7800 **17200**	* 8200 * **18100**	5700 **12500**			* 4650 * **10300**	4450 **9800**
1.5 m **5'**			* 14700 * **32400**	11050 **24400**	* 10800 * **23800**	7450 **16400**	8400 **18500**	5500 **12100**			* 5000 * **11000**	4300 **9500**
0 m **0'**	* 7350 * **16200**	* 7350 * **16200**	* 15850 * **34900**	10700 **23600**	11400 **25200**	7200 **15900**	8250 **18200**	5350 **11800**			* 5500 * **12200**	4400 **9700**
-1.5 m **-5'**	* 12550 * **27700**	* 12550 * **27700**	* 15850 * **35000**	10550 **23300**	11300 **24900**	7100 **15600**	8150 **18000**	5300 **11700**			* 6450 * **14200**	4700 **10400**
-3.0 m **-10'**	* 19300 * **42500**	* 19300 * **42500**	* 14900 * **32900**	10650 **23400**	* 11300 * **24900**	7100 **15700**					* 8200 * **18100**	5400 **11900**
-4.6 m **-15'**	* 17100 * **37700**	* 17100 * **37700**	* 12600 * **27800**	10850 **23900**	* 9250 * **20400**	7300 **16100**					* 8800 * **19400**	7000 **15500**

*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



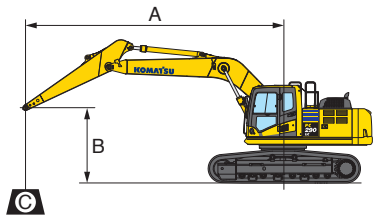
A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
⊗: Rating at maximum reach

Conditions :
- Boom lenght: 6150 mm **20' 2"**
- Bucket: None
- Lifting mode: On

Arm: 3500 mm **11'6"** **Shoes:** 800 mm **31.5"** **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'**											* 4300 * **9500**	* 4300 * **9500**
6.1 m **20 '**							* 6350 * **14000**	5950 **13100**			* 4150 * **9200**	* 4150 * **9200**
4.6 m **15'**					* 7900 * **17400**	* 7900 * **17400**	* 7300 * **16100**	5850 **12900**			* 4150 * **9200**	* 4150 * **9200**
3.0 m **10'**			* 11750 * **25900**	* 11750 * **25900**	* 9200 * **20300**	7750 **17100**	* 7950 * **17500**	5650 **12500**	* 5000 * **11000**	4300 **9500**	* 4300 * **9500**	4250 **9300**
1.5 m **5'**			* 14200 * **31300**	11050 **24300**	* 10500 * **23100**	7400 **16300**	8350 **18400**	5450 **12000**	* 5750 * **12700**	4250 **9500**	* 4600 * **10100**	4100 **9100**
0 m **0'**	* 8200 * **18100**	* 8200 * **18100**	* 15600 * **34400**	10600 **23300**	11300 **25000**	7100 **15700**	8150 **18000**	5300 **11700**			* 5050 * **11100**	4200 **9200**
-1.5 m **-5'**	* 12500 * **27600**	* 12500 * **27600**	* 15850 * **34900**	10400 **23000**	11150 **24600**	7000 **15400**	8050 **17800**	5200 **11500**			* 5850 * **12900**	4450 **9800**
-3.0 m **-10'**	* 18300 * **40300**	* 18300 * **40300**	* 15100 * **33300**	10450 **23000**	11150 **24600**	6950 **15400**	17900 **8100**	5250 **11500**			* 7400 * **16300**	5050 **11100**
-4.6 m **-15'**	* 18050 * **39900**	* 18050 * **39900**	* 13150 * **29000**	10650 **23500**	* 9800 * **21600**	7100 **15700**					* 8650 * **19100**	6400 **14100**

*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 :
- Boom lenght: 6150 mm **20' 2"**
- Bucket: None
- Lifting mode: On

Arm: 3500 mm **11'6"** **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'**											* 4300 * **9500**	* 4300 * **9500**
6.1 m **20 '**							* 6350 * **14000**	6000 **13200**			* 4150 * **9200**	* 4150 * **9200**
4.6 m **15'**					* 7900 * **17400**	* 7900 * **17400**	* 7300 * **16100**	5850 **12900**			* 4150 * **9200**	* 4150 * **9200**
3.0 m **10'**			* 11750 * **25900**	* 11750 * **25900**	* 9200 * **20300**	7800 **17200**	* 7950 * **17500**	5700 **12500**	* 5000 * **11000**	4350 **9600**	* 4300 * **9500**	4250 **9400**
1.5 m **5'**			* 14200 * **31300**	11100 **24500**	* 10500 * **23100**	7450 **16400**	8400 **18500**	5500 **12100**	* 5750 * **12700**	4250 **9400**	* 4600 * **10100**	4150 **9100**
0 m **0'**	* 8200 * **18100**	* 8200 * **18100**	* 15600 * **34400**	10650 **23500**	11400 **25100**	7150 **15800**	8200 **18100**	5350 **11800**			* 5050 * **11100**	4200 **9300**
-1.5 m **-5'**	* 12500 * **27600**	* 12500 * **27600**	* 15850 * **34900**	10450 **23100**	11200 **24800**	7000 **15500**	8100 **17900**	5250 **11600**			* 5850 * **12900**	4450 **9900**
-3.0 m **-10'**	* 18300 * **40300**	* 18300 * **40300**	* 15100 * **33300**	10500 **23200**	11200 **24700**	7000 **15500**	8150 **18000**	5250 **11600**			* 7400 * **16300**	5050 **11200**
-4.6 m **-15'**	* 18050 * **39900**	* 18050 * **39900**	* 13150 * **29000**	10700 **23600**	* 9800 * **21600**	7150 **15800**					* 8650 * **19100**	6450 **14200**

*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 (3.5 mm jack)
- Batteries, large capacity
- Battery disconnect switch
- Boom and arm holding valves
- Converter, (2) x 12V
- Counterweight, 5510 kg **12,148 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, 76 mm **3"**
- Seat belt indicator
- Secondary engine shutoff switch
- Service valve
- Shoes, triple grouser, 800 mm **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
  - 3200 mm **10'6"** arm assembly
  - 3200 mm **10'6"** arm assembly with piping
  - 3500 mm **11'6"** arm assembly
- Booms
  - 6150 mm **20'2"** boom assembly
  - 6150 mm **20'2"** 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
- High pressure in-line hydraulic filters
- Hydraulic control unit, 1 actuator
- Rain visor
- Revolving frame undercovers, heavy duty
- Shoes, triple grouser, 700 mm **28"**
- Shoes, triple grouser, 850 mm **33.5"**
- Sun visor
- Straight travel pedal
- Track roller guards, full length
- Working light, front, one additional

ATTACHMENT OPTIONS

- Grade control systems
- Hydraulic couplers
- Hydraulic kits, field installed
- Super long fronts
- PSM thumbs
- Rockland thumbs
- Vandalism protection guards with storage box

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

AESS818-03

Printed in USA AD10(2.5M)CCi 07/16 (EV-3)

KOMATSU®

www.komatsuamerica.com