KOMATSU

PC290LC-11 PC290LCi-11



EPA Tier 4 Final Engine Australia & New Zealand Specifications



Hydraulic excavator

NET Horsepower 147 kW / 196 HP @ 2050 rpm Operating weight range 29,800 – 31,210 kg

Bucket capacity 0.43 - 1.39 m³



Photos may include optional equipment.

Performance & Durability (all models)

New engine and hydraulic control technology improves operational efficiency and lowers fuel consumption by up to 9%.

Excellent Performance and Stable Platform A long reach arm and boom combined with a heavy duty undercarriage provides extended reach with a stable and reliable platform.

A powerful Komatsu SAA6D107E-3 engine provides a net output of 147 kW 196 HP. This engine is EPA Tier 4 Final 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) and Selective Catalytic Reduction (SCR) system reduce particulate matter and NOx while providing automatic regeneration that does not interfere with daily operation.

Large displacement high efficiency pumps provide high flow output at lower engine speed, improving efficiency.

Komatsu's Closed-centre Load Sensing System (CLSS) provides quick response and smooth operation to maximise productivity.

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

Large LCD colour machine monitor:

- 7" high resolution screen
- Provides "Ecology Guidance" for fuel efficient operation
- · Enhanced attachment control.

KomVision (standard)
Standard for PC290LCi-11
(Coming soon for PC290LC-11)

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 air suspension seat with new adjustable arm rests
- Integrated ROPS cab design Conforms to [ISO 12117-2 for excavators, also satisfies Level 1 operator Protective Guard [OPG] and Top guard [ISO 10262]
- AUX jack and [2] 12V power outlets.

The Komtrax® telematics system is standard on Komatsu equipment with no subscription fees. Using the latest wireless technology, Komtrax® transmits valuable information such as location, utilisation, and maintenance records to a PC or smartphone app. Custom machine reports are provided for identifying machine efficiency and operating trends. Komtrax® also provides advanced machine troubleshooting capabilities by continuously monitoring machine health.



Komatsu designed and manufactured components

Long arm and boom for extended reach and a heavy dutyundercarriage provides stability and long life.

Handrails (standard) located on the machine upper structure provide a convenient work area in front of the engine.

Lockable single pole battery isolation switch allows a technician to disconnect the power supply before servicing the machine.

Komatsu Auto Idle Shutdown helps reduce nonproductive engine idle time and reduces operating costs.

Operator Identification System (available August 2021) can track machine operation for up to 100 operators.

Performance features

Komatsu new engine technologies

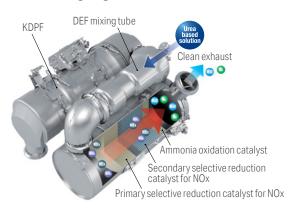
New Tier 4 Final Engine

The Komatsu SAA6D107E-3 engine is EPA Tier 4
Final emissions certified and provides exceptional performance while reducing fuel consumption. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces particulate matter (PM) and nitrogen oxides (NOx) by 90% 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.



Heavy-duty aftertreatment system

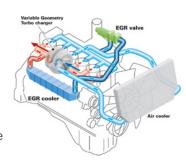
This new system combines a Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR). The SCR NOx reduction system injects the correct amount of Diesel Exhaust Fluid (DEF) at the proper rate, thereby decomposing NOx into non-toxic water vapour (H2O) and nitrogen gas (N2).

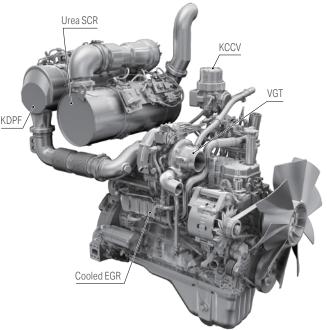


Heavy-duty cooled Exhaust Gas Recirculation (EGR) system

The system recirculates a portion of exhaust gas into the air intake and lowers combustion temperatures to reduce NOx emissions.

Furthermore, while EGR gas flow is increased, by incorporating a high-efficiency and compactly designed cooling system, the system achieves a dynamic reduction of NOx, while helping reduce fuel consumption.



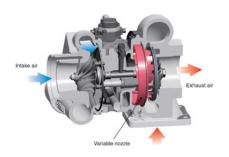


Advanced Electronic Control System

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

Komatsu Variable Geometry Turbocharger (KVGT) system

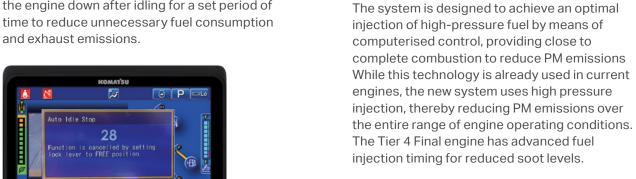
The VGT system features proven Komatsu designed hydraulic technology for variable control of air-flow and supplies optimal air according to load conditions. The upgraded version provides better exhaust temperature management.



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

Komatsu Auto Idle Shutdown

Komatsu auto idle shutdown automatically shuts the engine down after idling for a set period of time to reduce unnecessary fuel consumption





Performance features

Reduced Fuel Consumption

The PC290LC/LCi-11's new tier 4 final engine along with enhancements in the hydraulic system considerably decreases fuel consumption.

Fuel Consumption

Reduced by 9%

(vs PC270LC-8 Based on typical work pattern collected via KOMTRAX)

The fuel consumption data is the result compared actual measured value using the prototype machine. Actual fuel savings may vary depending on application and operating conditions.

Increased Work Efficiency

Functional digging force can be increased with use of the one-touch Power Max. function (up to 8.5 seconds of operation).

Maximum arm crowd force (ISO)

124 kN(16.6t) → 133 kN(13.6t) 7% UP

Maximum bucket digging force (ISO)

184 kN(18.8t) → 198 kN(23.2t) 8% UP

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



Efficient Hydraulic System

The PC290LC/LCi-11 uses a Closed-centre Load Sensing System (CLSS) that improves fuel efficiency and provides quick response to the operator's demands. The PC290LC/LCi-11 also incorporates 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 efficient and lower fuel consumption.



Large Displacement High Efficiency Pump

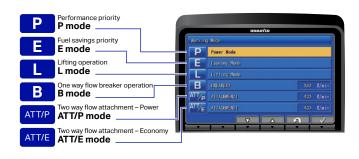
Large displacement hydraulic implement pumps provide high flow output at lower engine RPM as well as operation at the most efficient engine speed.



Working Mode Selection

The PC290LC/LCi-11 excavator is equipped with six working modes (P, E, L, B, ATT/P and ATT/E). Power Mode provides improved hydraulic power and faster cycle times for improved performance in demanding applications. Each mode is designed to match engine speed, pump flow, and system pressure to the application. The PC290LC/LCi-11 features an attachment mode (ATT/E) that allows operators to run attachments while in Economy mode.

Working Mode	Application	Advantage
Р	Power Mode	Maximum production, power and multifunction
E	Economy Mode	Good cycle times with reduced fuel consumption
L	Lifting Mode / Fine Control	Increased lifting power and fine control
В	Breaker Mode	One way flow for hydraulic breaker operation
ATT/P	Attachment Power Mode	Two way flow with maximum power
ATT/E	Attachment Economy Mode	Two way flow with most efficient fuel economy



High Rigidity Work Equipment

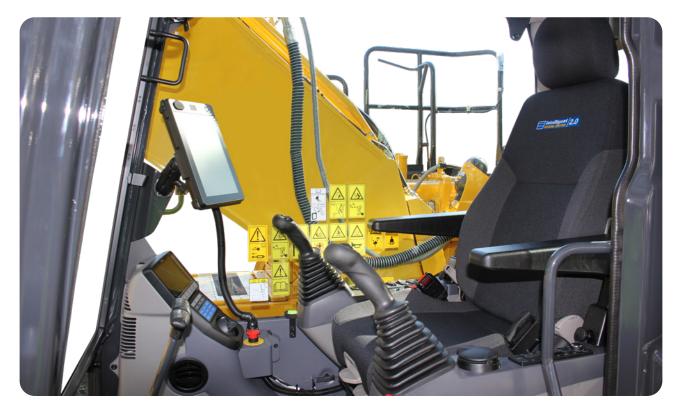
Booms and arms are constructed with thick plates of high tensile strength steel. In addition, these structures are designed with large cross sectional areas and large one

piece steel castings in the boom foot, the boom tip, and the arm tip. The result is work equipment that exhibits long term durability and high resistance to bending and torsional stress. A standard HD boom design provides increased strength and reliability.



Working environment





Comfortable Working Space

Wide spacious cab

The wide spacious cab includes a heated air suspension seat with reclining backrest. The seat height and position are easily adjusted using a pull-up lever. The armrest position is easily adjusted together with the console.

Arm rest with simple height adjustment function

Arm rest with simple height adjustment function A knob and plunger on the armrests allows easy height adjustment without the use of tools.



Pressurised cab

Automatic climate control Low vibration with cab damper mounting.

IMC 2.0 UHF & Network Antenna

ICT Antenna for UHF and Network correction service and remote support capability.



Standard Equipment

Sliding window glass (left side)



Radio, Bluetooth and USB Media System



Remote intermittent wiper with windshield washer



Emergency stop and level indicator



ISO Level 2 OPG



Magazine box and cup holder



(conforms to the ISO standard)



One-touch storable front window lower glass



Working environment

Large high resolution LCD monitor



New Monitor Panel Interface Design

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

Indicators

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

Basic operation switches

- Wiper Auto-decelerator Working mode selector 3 Travel speed selector Buzzer cancel
 - Window washer Auto climate controls

KomVision

(Standard on all models manufactured after August 2021)

Images from 4 camera's are combined to display a "birds eye" view of the area around the machine for improved operator awareness. A second display with selectable individual

camera views of the left, rear, and right sides is easily changed using the F4 button. A red line continuously shows where the counterweight will be during swinging and a camera icon indicates which camera is being displayed on individual camera display screen.





Visual user menu

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





Support Efficiency Improvement

Ecology gauge and fuel consumption gauge

The monitor screen is provided with an ecology gauge and also a fuel consumption gauge which is displayed continuously.

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



Ecology gauge Fuel consumption gauge Ecology guidance

Operator Identification Function

An identification ID can be set up for individual operator, application or jobs, and used to manage operation information of individual machines using KOMTRAX data.



Data sent from KOMTRAX can be used to analyse operation status by operator as well as by machine.

Ecology guidance

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

Operation record, fuel consumption history, and ecology guidance record

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



Operation record

_	O Guidance Records [1Day]	[Times
1		
ı		
0		
	Operational Advice	

Ecology guidance record



Fuel consumption history

intelligent machine control



Make Every Pass Count

Improve your efficiency – intelligent Machine Control means fast excavation to finish grade.

Semi-automatic operation – new features such as bucket angle hold control provide high levels of accuracy and comfort.



Innovative

 intelligent Machine Control excavator features semi-automatic operation of work equipment for highly accurate work.

• Compact 10.4" iMC monitor with increased memory capacity, processing speed, and pinch to zoom capability.

Integrated

· Complete factory-installed and integrated intelligent Machine Control system comes standard with stroke sensing hydraulic cylinders.

NEW

• Multiple Global Navigation Satellite System (multi-GNSS) components and an Inertial Measurement Unit (IMU) sensor. All components are validated to Komatsu's rigid quality and durability standards.

• Multi-band UHF/915SS radio improves job site flexibility.

• 3G/4G LTE connectivity for fast reliable job site connectivity.

• DUHF II Radio Standard fitment & 915SS Optional equipment - offers improved jobsite flexibility.

Intelligent

- Intelligent Machine Control excavator allows the operator to focus on moving material efficiently while semi-automatically tracing the target surface and limiting over-excavation.
- Facing angle compass, light bar and sound guidance aid in ease of operation and bucket positioning.

NEW • Bucket Angle Hold and optional Auto-Tilt Attachment Control increase ease of operation and improve productivity and efficiency.





intelligent Machine Control

intelligent Machine Control is based on Komatsu's unique

sensor package, including stroke sensing hydraulic cylinders, an IMU sensor, and GNSS antennas. It utilises 3D design data loaded in the control box to accurately check its position against the target. If the bucket hits the target surface, it is semi-automatically limited to minimise over-excavation. If the operator turns off Auto mode, the machine can be operated with highly accurate, responsive machine guidance (indicate only).



Auto grade assist

The operator moves the arm, the boom adjusts the bucket height automatically, tracing the target surface and minimising digging too deep. This allows the operator to perform bulk excavation without worrying about the design surface, and to perform fine digging by operating the arm lever only. The working range is expanded by holding the lever to move the boom downward.





Auto stop control

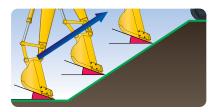
During boom or bucket operation, the work equipment automatically stops when the bucket edge reaches the required grade, minimising over-excavation or damage to the design surface.



Minimum distance control

Bucket control automatically selects point on the bucket closest to the target surface. Even if the machine is not facing a sloped surface at a right angle, it will still follow the target surface, minimising digging below it.

intelligent machine control

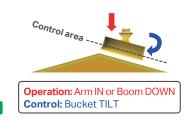


NEW

NEW

· Bucket angle hold control

Operator sets desired bucket angle and the system automatically maintains bucket angle throughout the grading pass. Angle hold control increases ease of operation and improves final grading accuracy.

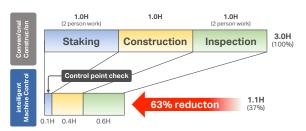


Auto-tilt Attachment Control

Automatically tilts bucket to design surface and returns it to horizontal to unload. Using auto tilt control with the existing minimum distance control and auto grade assist makes complex grading quicker and easier.

Improved Construction Efficiency

Staking, survey and final inspection (which is usually done manually), can be reduced with the intelligent Machine Control excavator by setting 3D design data on the control box. Also, use of the facing angle compass can minimise leveling work for the surface on which the machine sits. Even if the machine is inclined while working, the facing angle compass allows the operator to ensure that the machine is facing perpendicular to the target surface. The intelligent Machine Control technology allows the operator to improve work efficiency (i.e. shorter construction time) while minimising over-excavating the target surface from rough digging to finish grading.

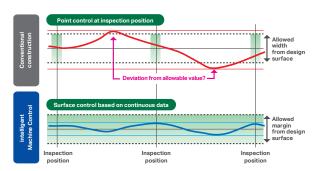


- * When used by a qualified iMC operator, the Komatsu intelligent Machine Control system increases construction efficiency.
- * he above data does not include design time or working data creation time. The above data is based on in-house construction tests, performed by Komatsu, whose conditions may differ from actual construction.

Improved Work Accuracy

The bucket edge/tip position is instantly displayed on the control box, eliminating the wait time for display on the monitor during construction. The large and easy-to-view control box displays information clearly, aiding in highly accurate work. With manual operation and conventional machine guidance, finish grade quality and excavating accurately depends heavily on the skill of the operator. With the intelligent Machine Control excavator, the bucket is automatically limited to follow the target grade without over-excavating.

Relationship Between Finished Surface and Allowable Value



As-Built Surface Mapping

Operator can display and check the as-built status and find where to cut and fill.



Control box

The monitor of the Komatsu intelligent Machine Control (control box) uses a compact 10.4" screen for visibility and ease of use. The simple screen layout displays the necessary information in an easily understood fashion. Touch screen icon interface instead of multi-step menu simplifies operation.





Machine Navigation

Facing angle compass

The orientation and colour of the facing angle compass's arrow shows the operator the facing angle of the bucket edge relative to the target surface.



This allows the bucket edge to be accurately positioned square with the target surface, which is useful when finishing slopes.

Enhanced operability of the machine control NEW

Semi-auto/manual mode switching and design surface offset function can be operated with switches on the control levers.





intelligent machine control

Factory installed Komatsu intelligent Machine Control components



Standard Local Options providing first 12 months support:

 $(includes: Standard\ 3G/4G\ modem\ with\ DATA\ \&\ SIM,\ industry\ leading\ ICT\ machine\ OEM\ service\ support\ agreement\ with\ iMC\ 2.0)$



Remote control

Assist the operator by taking control of their GNSS equipment in real-time.



File transfer history

Overview of when, and which, files have been transferred.



Remote view

Real-time remote image of the GNSS equipment.



Office to machine transfer

Send the latest design files from the office to your machines.



Machine to office transfer

Download files that have been collected on your system (survey results, as-built data, ...)



Offline file transfer

Machine offline? No issue. Files are stored in cloud, operator will see updated model at machine switch on.





Batch file transfer

Send files to multiple machines in one click.



Work smarter from rough digging to finish grade

Give your operators the power to work more effectively than with conventional aftermarket machine guidance (indicate only) or manual operation. Intelligent Machine Control (iMC) excavators with semi-automatic control offer the capability to work smart from rough digging to finish grading, and help minimise over-excavation to make every pass count.

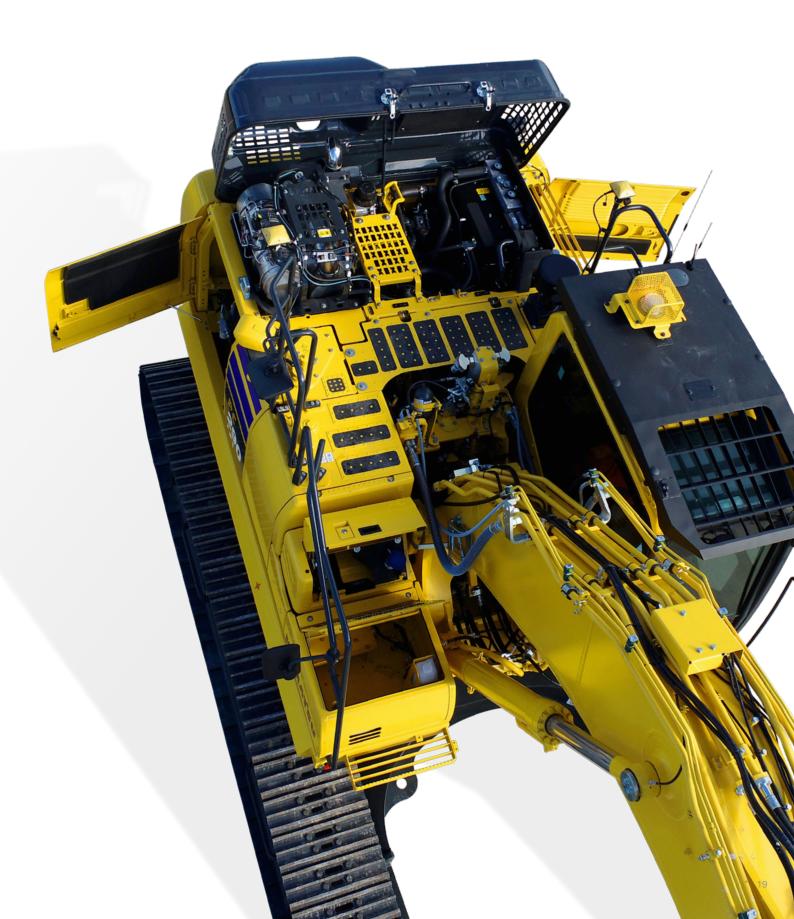
- Semi-automatic for trenching, slope work and high production applications
- Protection + precision + performance
 the formula for pursuing maximum
 productivity versus conventional
 machine guidance



Intelligent machine control



Maintenance features



Maintenance features

Large capacity air cleaner

The larger air cleaner can extend air cleaner life during long-term operation and helps prevent early clogging, and resulting power loss. A radial seal design is used for reliability.



Engine Access

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



Fuel Filters

Large high-efficiency fuel filter and pre-filter with water separator removes contaminants from fuel for improved fuel injection system life.



High efficiency

Fuel pre-filter (with water separator)

Easy access to engine oil filter and fuel drain valve

Engine oil filter and fuel drain valve are remote mounted to improve accessibility.





Battery isolation switch

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



Air conditioner filter

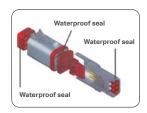
The air conditioner filter can be removed and installed without the use of tools for easy filter maintenance.

Washable cab floormat Sloping track frame Long-life oils, filters

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

DT-type connectors

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



Diesel Exhaust Fluid (DEF) tank

A large tank volume extends operating time before refilling and is installed on the right front platform for easy access. DEF tank and pump are separated for improved service access.



Maintenance information

"Maintenance time caution lamp" display

When the remaining time to maintenance becomes less than 30 hours*, a maintenance time monitor appears. Pressing the F6 key switches the monitor to the maintenance screen.

*: The setting can be changed within the range between 10 and 200 hours.



MOMATSU MOMATSU		
Vaintenance	Interval	Remain
Air Cleaner Cleaning / Change	-	
(Engine Cil Change		
Empire till Filter Change		
Fire! Main Filter Change		
First Pre Filter Change		
O D O D	1	

Maintenance screen

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





Aftertreatment device regeneration screen

Supports the DEF level and refill timing

The DEF level gauge is displayed continuously on the right side of the monitor screen. In addition, when DEF level is low, DEF low level guidance messages appear in pop up displays to inform the operator in real time.





DEF level gauge

DEF low level guidance

KALSS

Australian standard specification



Rotating Amber Beacon Fitted with factory guard.



Level Indicator, Overload Alarm & Anti-Burst Valves Enable safety and compliance when lifting suspended loads.



Additional LightingExtra lighting on cab and counterweight for improved visibility.



Proportional Hand ControlsEnables proportional hand control of attachment speed.





Lower Front Window Guard Protects cabin windscreen against rocks and debris.



Battery IsolationSingle pole, lockable Bosch-type battery isolation.



E-StopsAllow compliance to site safety requirements.



Bolt-on Top Guard OPG level 2 (ISO 10262) for falling object protection.

KALSS for IMC 2.0

Australian standard specification





Standard iMC Specification included	iMC 1.0	iMC 2.0
3G/4G Modem (remote/network)	~	✓
DUHF II and Network Antenna	~	✓
Auto-Tilt Attachment (IMU Kit)		✓
DUHF II – Digital UHF II radio Board	~	✓
SC Service Level Agreement	~	✓
Bucket Angle Hold		✓

KOMTRAX equipment monitoring

Get the whole story with



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, utilisation, and a detailed history lowering owning and operating cost

Who

 KOMTRAX is standard equipment on all Komatsu construction products

When

- · Know when your machines are running or idling and make decisions that will improve your fleet utilisation
- · Detailed movement records ensure you know when and where your equipment is moved
- Up to date records allow you to know when maintenance is due and help you plan for future maintenance needs

Where

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

Why

- Knowledge is power make informed decisions to manage your fleet better
- Knowing your idle time and fuel consumption will help maximise your machine efficiency
- Take control of your equipment - any time, anywhere.





Specifications

Engine

g	
Model	Komatsu SAA6D107E-3*
Туре	Water-cooled, 4-cycle, direct injection
Aspiration	Variable geometry turbocharged, aftercooled, cooled EGR
Number of cylinders	6
Bore	107 mm 4.21"
Stroke	124 mm 4.88"
Piston displacement	6.69 ltr 408 in ³
Horsepower:	
SAE J1995	Gross 159 kW 213 HP
ISO 9249 / SAE J1349	Net 147 kW 196 HP
Rated rpm	2050
Governor	All-speed control, electronic
Fan drive method for radiator cooling	Mechanical
*FDA Tion 4 Final amissions contified	

*EPA Tier 4 Final emissions certified

Hydraulics

Tryuruunos			
Туре	HydrauMind (Hydraul system, closed-centr valve and pre		ad sensing
Number of selectable wor	king modes		6
Main pump:			
Pumps for	Boom, arm, bucke	t, swing, and tra	vel circuits
Туре	Variable disp	lacement axial p	iston type
Maximum flow		535 ltr/min 141	.3 gal/min
Supply for control circu	Supply for control circuit Self reducing valve		
Relief valve setting:			
Implement circuits	37.3 MPa	5380 kgf/cm ²	5,400 psi
Travel circuit	37.3 MPa	5380 kgf/cm ²	5,400 psi
Swing circuit	27.9 MPa	5285 kgf/cm ²	4,050 psi
Pilot circuit	3.2 MPa	533 kgf/cm ²	470 psi
Hydraulic cylinders:			
(Number of cylinders – bore x stroke x rod diameter)			
Boom	2–140 mm x 1480 mm x 1	100 mm 5.5" x 5	8.3" x 3.9"
Arm	1-160 mm x 1825 mm x	110 mm 6.3" x 7	1.9" x 4.3"
Bucket	1-140 mm x 1285 mm x 1	100 mm 5.5" x 5	0.6" x 3.9"

Drives and brakes

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

Swing system

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

Centre 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	8.0 ltr	2.1 U.S. gal
Swing drive	7.2 ltr	1.9 U.S. gal
Hydraulic tank	132 ltr	34.9 U.S. gal
Hydraulic system	253 ltr	66.8 U.S. gal
DEFtank	23.1 ltr	6.1 U.S. gal

Operating weight (approximate)

Operating weight includes **6150 mm** one-piece HD boom, **3200 mm** HD arm, rated capacity of lubricants, coolant, full fuel tank, operator, standard equipment, KGA dual lock quick hitch, and SAE heaped **1.39 m³** bucket.

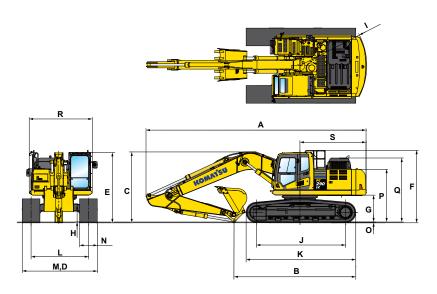
Triple-grouser shoes	Operating weight	Ground pressure
600 mm	30,330 kg	0.58 kg/cm ²
700 mm	30,730 kg	0.50 kg/cm ²
800 mm	31,130 kg	0.45 kg/cm ²

Component weights

Arm including bucket cylinder and linkage:		
2500 mm HD arm assembly	1410 kg	3,108 lb
3200 mm HD arm assembly	1470 kg	3,240 lb
3500 mm HD arm assembly	1550 kg	3,417 lb
One piece HD boom including arm cylinder:		_
6150 mm boom assembly	2448 kg	5,397 lb
Boom cylinders x 2	231 kg	509 lb
Counterweight (standard)	5200 kg	11,464 lb

Dimensions

Difficusions							
	Arm Length	3200 mm					
Α	Overall length	10265 mm					
В	Length on ground (transport)	5770 mm					
С	Overall height (to top of boom)*	3295 mm					
D	Overall width	3190 mm					
Е	Overall height (to top of cab)*	3180 mm					
F	Overall height (to top of handrail)*	3275 mm					
G	Ground clearance, counterweight	1215 mm					
Н	Ground clearance, minimum	495 mm					
Ι	Tail swing radius	3020 mm					
J	Track length on ground	4030 mm					
K	Track length	4955 mm					
L	Track gauge	2590 mm					
М	Width of crawler	3190 mm					
N	Shoe width	600 mm					
0	Grouser height	36 mm					
Р	Machine height to top of counterweight	2380 mm					
Q	Machine height to top of engine cover	2895 mm					
R	Machine upper width	2850 mm					
S	Distance, swing centre to rear end	2985 mm					



3500 mm

10275 mm

5495 mm

3375 mm

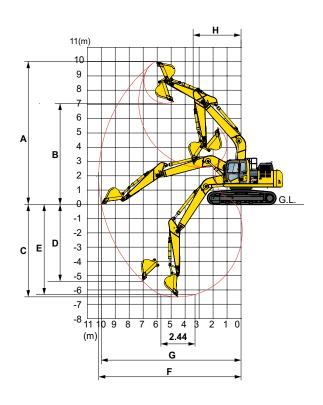
2500 mm 10317 mm

6628 mm

3367 mm

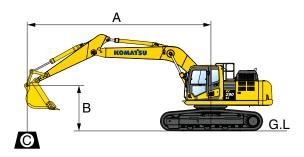
Working range

	Arm Length	3200 mm	2500 mm	3500 mm			
Α	Max. digging height	10300 mm	9840 mm	10355 mm			
В	Max. dumping height	7375 mm	6972 mm	7435 mm			
С	Max. digging depth	6910 mm	6208 mm	7220 mm			
D	Max. vertical wall digging depth	5790 mm	4314 mm	5850 mm			
Е	Max. digging depth for 8' level bottom	6750 mm	6008 mm	7070 mm			
F	Max. digging reach	10710 mm	9957 mm	10890 mm			
G	Max. digging reach at ground level	10450 mm	9763 mm	10715 mm			
Н	Min. swing radius	3680 mm	3722 mm	3740 mm			
SA	SAE rating:						
Bu	cket digging force at power max.	176 kN 17900 kg	176 kN 17900 kg	176 kN 17900 kg			
Arr	n crowd force at power max.	129 kN 13100 kg	165 kN 16800 kg	121 kN 12400 kg			
ISC	ISO rating:						
Bu	cket digging force at power max.	198 kN 20200 kg	198 kN 20200 kg	198 kN 20200 kg			
Arr	n crowd force at power max.	133 kN 13600 kg	170 kN 17300 kg	125 kN 12800 kg			



^{*} Including grouser height

Lift capacities



Lifting capacity with lifting mode

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

Conditions:

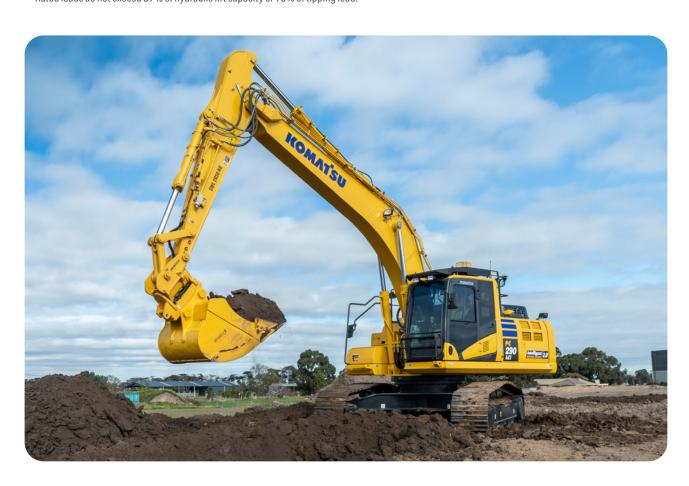
Boom length: 6150 mm Arm length: 3200 mm

Shoes: 600 mm triple grouser

Bucket: 808 kg

	1.5 m		3.0 m		4.5	4.5 m		6.0 m		7.5 m		Unit: kg ↔ MAX	
A/B	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
6.0 m	-	_	-	-	-	-	-	-	*5600	5300	*3400	*3400	
4.5 m	-	-	-	-	-	-	*7150	*7150	*6350	5150	*3450	*3450	
3.0 m	-	-	*8850	*8850	*11100	*11100	*8400	7100	*7150	4950	*3650	3500	
1.5 m	-	-	-	-	*13800	10400	*9750	6700	7550	4750	*3950	3350	
0 m	-	-	*8150	*8150	*15100	9900	10500	6400	7350	4550	*4550	3400	
-1.5 m	*8250	*8250	*9750	*9750	*15200	9700	10350	6250	7250	4450	*5550	3700	
-3.0 m	*10700	*10700	*16500	*16500	*14550	9750	10300	6200	7250	4450	6950	4250	
-4.5 m	-	_	*17800	*17800	*12800	9950	*9450	6350	_	-	*8100	5650	

^{*} Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.



Standard equipment

- · 3 speed travel with auto shift
- · Access handrails counterweight
- · Alternator, 90 A, 24 V
- Arm, 3200 mm
- Auto idle
- Auto idle shut down
- Automatic air conditioner, large capacity
- Automatic engine warm-up system
- Auxiliary input (3.5 mm jack)
- Batteries, large capacity
- · Battery isolation switch, lockable
- Boom, 6150 mm
- Boom and arm burst valve protection
- Bump rails
- · Cab guards
- Lower front window guard
- Integrated top guard, OPG Level 1
- Bolt on top guard, OPG Level 2
- · Carrier rollers, (2 each side)
- · Converter, (2) x 12 V
- · Counterweight, 5200 kg
- · Dry type air cleaner, double element
- · Dual flow hammer piping
- · Electric horn
- Emergency stops (3)
- · EMMS monitoring system
- Engine, Komatsu SAA6D107E-3
- · Fan guard structure

- Fire extinguisher, 1.5 kg (for PC290LCi-11)
- Fuel system pre-filter 10 micron
- · Guard belly plate (for PC290LCi-11)
- · High back air suspension seat, with heat
- High pressure in-line hydraulic filters
- · Hydraulic track adjusters
- Hydraumind closed centre load sensing system
- KOMTRAX
- Komvision (Standard on all models manufactured after August 2021)
- · Large LCD colour monitor, high resolution
- Level indicator
- Lock lever
- · Lock lever, auto-lock
- . Mirrors (LH, RH & sidewise)
- Operator identification system (available August 2021)
- · Overload alarm
- · Power maximising system
- PPC hydraulic control system
- Proportional control handles
- · Provision for tilt circuit, including valve
- Pump/engine room partition cover
- Quick hitch piping with safety switch and alarm
- Radiator and oil cooler dustproof net
- · Radio Bluetooth USB media system
- Rear reflectors
- Revolving frame undercovers

- ROPS cab (ISO 12117-2) with vandal guard provisions
- Rearview monitoring system (1 camera) (For PC290LC-11 models manufactured before August 2021)
- · Rotating beacon (LED) with guard
- · Seat belt indicator
- · Seat belt, retractable, 78 mm
- Secondary engine shutdown switch
- Side access hand rails
- · Side by side coolers
- Slip resistant foot plates
- Starter motor, 5.5 kW/24 V x 1
- Suction fan
- · Thermal and fan guards
- · Track roller guides, 3 each side
- Track rollers, 8 each side
- Track frame swivel guard
- Track shoes, triple grouser, 600 mm
- · Travel alarm
- Turbo timer
- Working lights
 - 1 x boom
 - 1 x RH
 - 3 x cab
 - 1x counterweight
- · Working mode selection system

intelligent Machine Control

- 12 month remote access to your machine (includes data & SIM)
- 12 months service level support agreemen
- Auto grade assist
- Auto stop control boom and bucket
- Auto tilt attachment control [when tilt bucket fitted]
- · Bucket angle hold
- Dual multi-constellation GNSS antennas
- Excavator weighing system
- Factory integrated 3D machine control
 iMC 2.0 canvas seat cover
 Komatsu chassis mounted iMU
- · Komatsu PH700 monitor
- Komatsu stroke sensors [boom/arm & bucket]
- MC-i4 with internal 4G modem
- Minimum distance control
- Network and UHF antennas
- Receiver- UR-1 UHF and 915SS radio

Optional equipment

- Arm, 2500 mm
- Arm, 3500 mm
- Autogrease system
 Rettery isolation switch, dual pole, lockable
- Battery isolation switch, dual pole, lockable
 Cab guard Full front guard, OPG Level 2
- Cab yandal guard set
- Canvas seat cover (for PC290LC-11)
- Fire extinguisher, 1.5 kg (for PC290LC-11)
- Fire extinguisher, 4.5 kg
- Fire extinguisher, 9 kgFuel cap vandal guard
- Guard belly plate (for PC290LC-11)
- Jump start receptacle
- Komvision PC290LC-11 (units with rearview monitor)
- Radio, UHF (for PC290LC-11)
- Starter circuit isolation, lockable
- Track roller guards, full length
- Track shoes, triple grouser, 700 mm
- Track shoes, triple grouser, 800 mm Window tinting

Attachment options

- Bucket, general purpose, KGA 600 mm, 0.43 m³
- Bucket, general purpose, KGA 900 mm, 0.43 m³
 Bucket, general purpose, KGA 900 mm, 0.75 m³
- Bucket, general purpose, KGA 300 mm, 1.08 m³
- Bucket, general purpose, KGA 1500 mm, 1.39 m³
- Bucket, slope finishing, KGA 2000 mm, 1.64 m³ Quick hitch, KGA, dual lock
- · Quick hitch, KGA, dual lock, tilting
- Ripper, KGA, single tyne

Now available

Komatsu JMHB230V-1 Hydraulic Breaker



Model Type		JMHB230V-1
Working weight	kg	1,450
Oil flow (min - max)	ℓ/min	120 - 170
Operating pressure (max)	MPa	135
Impact rate	bpm	285 - 1,050
Chisel diameter	mm	122
Acceptable back pressure	bar	8
Base machine (min - max)	Ton	18 - 30

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

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