KOMATSU

PC210LCi-11

Hydraulic excavator

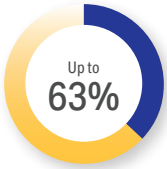
intelligent MACHINE CONTROL 2.0

Engine power
123 kW / 165 HP @ 2000 rpm

Operating weight
22120 - 23580 kg

Bucket capacity
max. 1.68 m^3

PC210LCi-11



Save time

Reduce staking, grading and inspection with 3D design data and semi-automatic grading.

Increase productivity

Using semi-automatic intelligent Machine Control versus manual machine guidance.

Lower costs

Through less bucket cycles, reduced machine movements and eliminated rework.

Engine power

123 kW / 165 HP @ 2000 rpm

Operating weight

22120 - 23580 kg

Bucket capacity

max. 1.68 m^3

Transform your job sites

with advanced automation

intelligent MACHINE CONTROL 2.0

Powerful and environmentally friendly

- EU Stage V engine
- Komatsu Integrated Attachment Control (KIAC) (option)
- Adjustable idle shutdown
- Komatsu fuel-saving technology

First-class comfort

- Fully air-suspended operator station
- Low-noise design
- Widescreen monitor

Intelligent Machine Control 2.0

- Fully field-proven automated digging control
- Bucket angle hold feature
- Auto Tilt Control for tilt bucket
- IMU sensor for tilt bucket integration
- Intelligent, compact touch screen monitor
- Fully factory-integrated solution
- Smart Construction Remote connectivity as standard

Safety first

- Komatsu SpaceCab™
- KomVision surround view system
- Neutral position detection system

Quality you can rely on

- Komatsu-quality components
- Extensive dealer support network

Komtrax

- Komatsu Wireless Monitoring System
- 4G mobile communications
- Integrated communication antenna
- Increased operational data and reports

KOMATSU CARE

A maintenance program for Komatsu customers

PC210LCi-11

Innovative

The PC210LCi-11 with intelligent Machine Control 2.0 (iMC 2.0) provides even greater productivity gains for the customer. The renowned accuracy and automatic grading is enhanced with new features increasing ease of operation and finished quality, and reducing cycle times.

Intelligent

The Komatsu PC210LCi-11 intelligent Machine Control excavator lets you focus on moving material efficiently, with no worry about digging too deep. The new iMC 2.0 features mean operations are completed quicker, more accurately and with reduced costs.

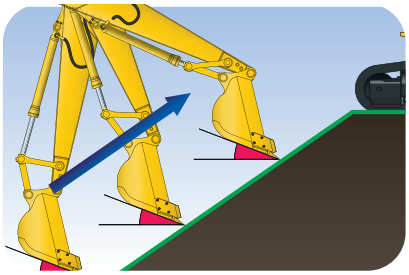
Greatly improved efficiency

Komatsu iMC 2.0 makes work even quicker and easier. The automatic features let the operator relax and focus on productivity, with no worry about overdigging. With Auto Grade Assist and Auto Tilt Control the PC210LCi-11 keeps the bucket edge on the grade and increases bucket fill factors.

Intelligent Machine Control 2.0

Auto Tilt Control

The new iMC 2.0 Auto Tilt Control automatically tilts the bucket to design and returns it to horizontal to unload. Makes delivering final grade quicker and easier.



Bucket angle hold feature

Operator selects desired bucket angle and the system maintains bucket angle through grading pass. Vastly increases ease of operation on final grading and trimming work.

Automatic real time digging control

Komatsu intelligent Machine Control is based on Komatsu's unique sensor development, stroke sensing hydraulic cylinders and IMU sensor. You will no longer worry about over digging. When your bucket hits the target surface, the control function automatically limits and maintains grade with real-time bucket edge positioning.

Finger tip control

New lever functions allow the operator to raise or lower the design off-set at the touch of a button. Right lever trigger switch activates/deactivates semi-auto mode. Operator friendly and easy to use.

Intelligent touch screen monitor

The all new 10,4" touch screen monitor features accurate display of machine and design. Operators can customise the split screen views to suit what they want to focus on. And easy multi-touch navigation always provides them with real time digging and grading information.

Komatsu iMC 2.0
makes your work even quicker and easier.

Intelligent Machine Control 2.0

Integrated – Factory installed components

The intelligent Machine Control system is fully factory-integrated. Komatsu's unique stroke sensing cylinders for boom, arm, bucket and tilt bucket provide real time bucket tip positioning. Combined with built-in IMU sensor and GNSS antennae, the PC210LCi-11 can achieve incredibly accurate performance, consistently.

SMART CONSTRUCTION Remote

Smart Construction Remote is included as standard on PC210LCi-11. This software solution enables the customer to remotely send and update design plans even when the machine is offline. It also supports your operators remotely with shared screen control. Does an operator have an issue? Spare yourself that trip to the machine and resolve the problem from home, your office, or another jobsite.

For further information on Smart Construction Remote please check out smartconstruction.io

Higher productivity

The PC210LCi-11 is quick and precise. It features a powerful Komatsu EU Stage V engine, Komatsu's Closed Center Load Sensing (CLSS) hydraulic system and first-class Komatsu comfort to provide a fast response and unrivalled productivity for its class.

Komatsu fuel-saving technology

Fuel consumption on the PC210LCi-11 is lower by up to 6%. Engine management is enhanced. The variable speed matching of the engine and hydraulic pumps and a viscous fan clutch guarantee efficiency and precision during single and combined movements.

Adjustable idle shutdown

The Komatsu auto idle shutdown automatically turns off the engine after it idles for a set period of time. This feature can easily be programmed from 5 to 60 minutes, to reduce unnecessary fuel consumption and exhaust emissions, and to lower operating costs. An Eco-gauge and the Eco guidance tips on the cab monitor further encourage efficient operations.

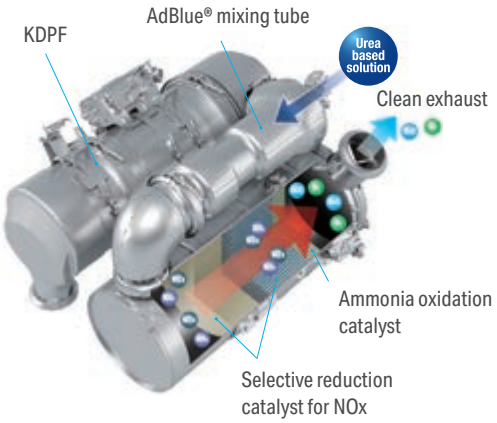
Powerful and environmentally friendly

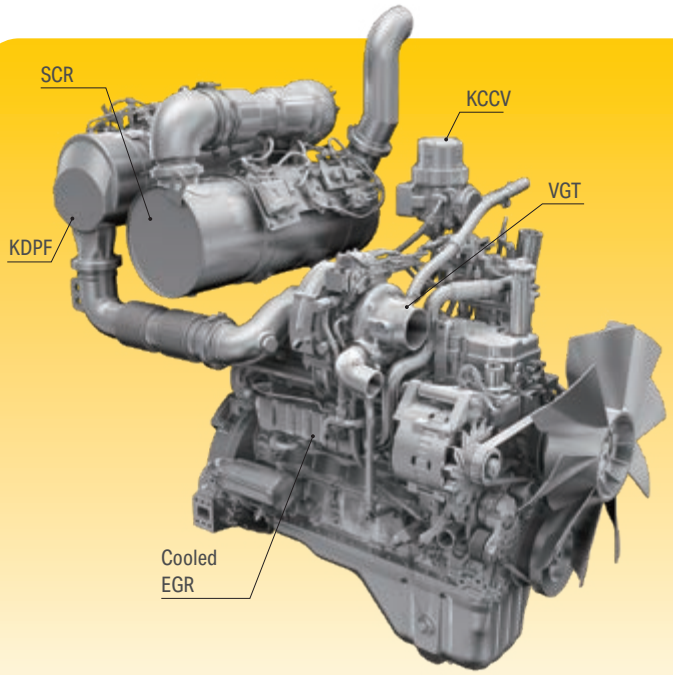
Komatsu EU Stage V

The Komatsu EU Stage V engine is productive, dependable and efficient. With ultra-low emissions, it provides a lower environmental impact and a superior performance to help reduce operating costs and lets the operator work in complete peace of mind.

Heavy-duty aftertreatment

The aftertreatment system combines a Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR). The SCR injects the correct amount of AdBlue® into the system at the proper rate to break down NOx into water (H_2O) and non-toxic nitrogen gas (N_2). NOx emissions are reduced by 80% vs. EU Stage IIIB engines.





High-Pressure Common Rail (HPCR)

To achieve complete fuel burn and lower exhaust emissions, the heavy-duty High-Pressure Common Rail fuel injection system is computer controlled to deliver a precise quantity of pressurised fuel into the redesigned engine combustion chamber by multiple injections.

Exhaust Gas Recirculation (EGR)

Cooled EGR is a technology well-proven in current Komatsu engines. The increased capacity of the EGR cooler now ensures very low NOx emissions and a better engine performance.

Komatsu Closed Crankcase Ventilation (KCCV)

Crankcase emissions (blow-by gas) are passed through a CCV filter. The oil mist trapped in the filter is returned back to the crankcase while the filtered gas is returned to the air intake.

Variable Geometry Turbo (VGT)

The VGT provides optimal airflow to the engine combustion chamber under all speed and load conditions. Exhaust gas is cleaner, fuel economy is improved while machine power and performance are maintained.

First-class comfort

Enhanced work environment

Designed to prioritise both productivity and operator well-being, the Komatsu crawler excavator cab features thoughtful ergonomics with high-visibility handrails, and improved interior LED lighting. Stepping inside reveals a sleek, dark colour scheme complemented by an effortlessly cleanable floor mat. Upgraded UV-protective tint on the cab rear window minimises sun exposure and helps maintain a cool working environment.

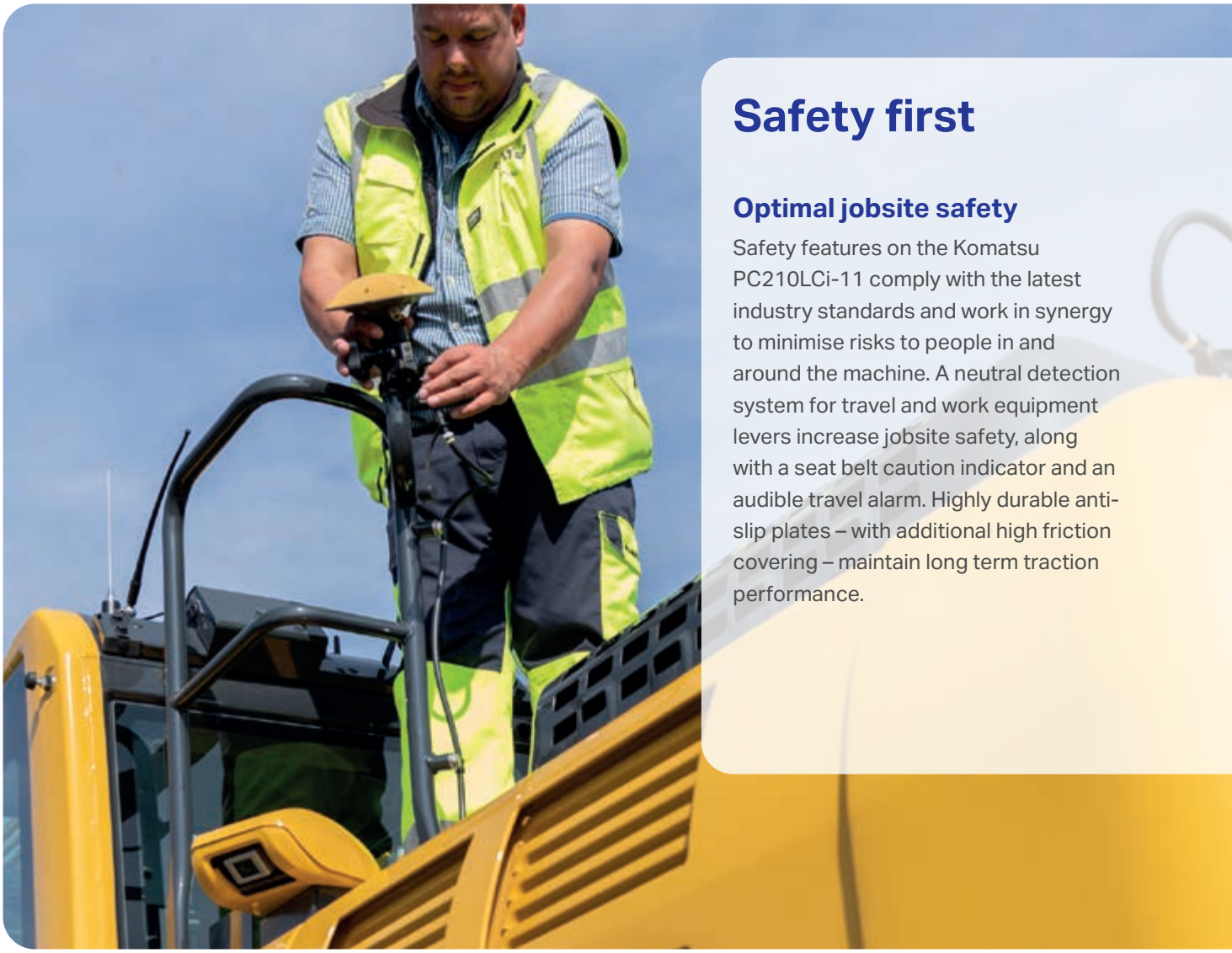
Future-proof customisable workspace

The operator cab offers extensive customisation possibilities. A multi-functional utility bar allows for adding personal accessories such as additional monitors or tablets, while dual USB ports (USB-A & USB-C) enable mobile device charging.

Convenient and secure entry to the spacious, well-insulated, low-noise cab

Multi-functional utility bar
(items shown are for illustrative purposes only)

Optional premium seat with top quality cushioning, auto weight adjustment, lumbar support, climate control system, available with optional multi-position armrests and ergonomic control levers



Safety first

Optimal jobsite safety

Safety features on the Komatsu PC210LCi-11 comply with the latest industry standards and work in synergy to minimise risks to people in and around the machine. A neutral detection system for travel and work equipment levers increase jobsite safety, along with a seat belt caution indicator and an audible travel alarm. Highly durable anti-slip plates – with additional high friction covering – maintain long term traction performance.

Higher safety with iMC

Staking, surveying and final inspection were usually done manually. The PC210LCi-11 reduces or eliminates the need for this ground staff around the machine. GNSS antennae integrated in the handrails remove the need to access the top of the counterweight.

Komatsu SpaceCab™

The ROPS cab has a tubular steel frame and provides high shock absorbency, impact resistance and durability. The seat belt is well designed to keep the operator in the safety zone of the cab in the event of a rollover. Optionally the cab can be fitted with a Falling Object Protective System (FOPS) with openable front guard.

KomVision

KomVision machine visibility gives the operator a constant clear view of the safety zone around the machine. This allows the operator to focus on the work at hand even in low light conditions. With KomVision, various camera view options are available whilst maintaining constant "birdview" from above the machine.

An evolutionary interface

Helpful information is now easier than ever to find and understand with the upgraded monitor interface. An optimal main screen for the ongoing work can be selected simply by pressing the F3 key.

Lower operating costs

Komatsu ICT contributes to the reduction of operating costs by assisting to comfortably and efficiently manage operations. It raises the level of customer satisfaction and the competitive edge of our products.

Widescreen monitor

Installed with a choice of 26 languages, the widescreen monitor with simple switches and multifunction keys gives fingertip access to a large range of functions and operating info.

Eco-gauge, Eco guidance and fuel consumption gauge

Fuel consumption history

ECO guidance record

Information & communication technology

Knowledge

You get quick answers to basic and critical questions about your machines – what they're doing, when they did it, where they're located, how they can be used more efficiently and when they need to be serviced. Performance data is relayed by wireless communication technology (satellite, GPRS or 4G depending on model) from the machine to a computer and to the local Komatsu distributor – who's readily available for expert analysis and feedback.

Convenience

Komtrax enables convenient fleet management on the web, wherever you are. Data is analysed and packaged specifically for effortless and intuitive viewing in maps, lists, graphs and charts. You can foresee eventual maintenance issues and required spare parts, and troubleshoot a problem before Komatsu technicians arrive on site.

KOMTRAX

The way to higher productivity

Komtrax uses the latest wireless monitoring technology. Compatible on PC, smartphone or tablet, it delivers insightful and cost saving information about your fleet and equipment, and offers a wealth of information to facilitate peak machine performance. By creating a tightly integrated web of support it allows proactive and preventive maintenance and helps to efficiently run a business.

Power

The detailed information that Komtrax puts at your fingertips 24 hours a day, 7 days a week gives the power to make better daily and long-term strategic decisions – at no extra cost. Problems can be anticipated, maintenance schedules customised, downtime minimised and machines kept where they belong: working on the jobsite.

Easy maintenance

Central service points

Komatsu designed the PC210LCi-11 with centralised and conveniently located service points to make necessary inspections and maintenance quick and easy.

Long-life oil filters

The Komatsu Genuine hydraulic oil filter uses high-performance filtering material for long replacement intervals, which significantly reduces maintenance costs.

Basic maintenance screen

Komatsu Care

Komatsu Care is a maintenance program that comes as standard with your new Komatsu machine. It covers factory-scheduled maintenance, performed with Komatsu Genuine parts by Komatsu-trained technicians. Depending on your machine's engine, it also offers extended coverage of the Komatsu Diesel Particulate Filter (KDPF) or the Komatsu Diesel Oxidation Catalyst (KDOC), and of the Selective Catalytic Reduction (SCR). Please contact your local Komatsu distributor for terms and conditions.

Flexible warranty

When you purchase Komatsu equipment, you gain access to a broad range of programmes and services that have been designed to help you get the most from your investment. For example, Komatsu's Flexible Warranty Programme provides a range of extended warranty options on the machine and its components. These can be chosen to meet your individual needs and activities. This programme is designed to help reduce total operating costs.

Aftertreatment device regeneration screen for the KDPF

For simple access, the AdBlue® tank is installed on the front stairway.

Safe maintenance

Thermal guards around high temperature areas of the engine, protected fan belt and pulleys, a pump/engine partition that prevents hydraulic oil from spraying onto the engine, and exceptionally sturdy handrails: in Komatsu tradition, the highest safety level is provided for a fast and smooth maintenance.

Quality you can rely on

Komatsu-quality

With the latest computer techniques and a thorough test programme, Komatsu produces equipment to meet your highest standards. All major components of the PC210LCi-11 are designed and directly manufactured by Komatsu, and essential machine functions are perfectly matched for a highly reliable and productive excavator. Each and every PC210LCi-11 undergoes additional system calibration and accuracy tests before delivery, to ensure optimum performance in line with strict Komatsu Engineering Standards.

Rugged design

Maximum toughness and durability are the cornerstones of Komatsu's philosophy – along with safety and top class customer service. Single piece plates and castings are used in key areas of the machine's structure for good load distribution. Highly durable rubbing strips on the underside of the arm protect the structure against impact damage.

Extensive support network

The extensive Komatsu distribution and dealer network is standing by to help keep your fleet in optimum condition. Customised servicing packages are available, with express availability of spare parts, to make sure that your Komatsu equipment continues to perform at its peak.
Highly trained and dedicated Technical Support Engineers are always available to ensure intelligent Machine Control performance is maintained.

Specifications

Engine

Model	Komatsu SAA6D107E-3
Type	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed	2000 rpm
ISO 14396	123 kW / 165 HP
ISO 9249 (net engine power)	123 kW / 165 HP
No. of cylinders	6
Bore × stroke	107 × 124 mm
Displacement	6.69 l
Air filter type	Double element type with monitor panel dust indicator and auto dust evacuator
Cooling	Suction type cooling fan with radiator fly screen
Fuel	Diesel fuel, conforming to EN590 Class 2/Grade D. Paraffinic fuel capability (HVO, GTL, BTL), conforming to EN 15940:2016

Hydraulic system

Type	HydrauMind. Closed-centre system with load sensing and pressure compensation valves
Additional circuits	2 additional circuits with proportional control can be installed
Main pump	2 variable displacement piston pumps supplying boom, arm, bucket, swing and travel circuits
Maximum pump flow	475 l/min
Relief valve settings	
Implement	380 kg/cm²
Travel	380 kg/cm²
Swing	295 kg/cm²
Pilot circuit	33 kg/cm²

Service refill capacities

Fuel tank	400 l
Radiator	30.7 l
Engine oil	23.1 l
Swing drive	6.5 l
Hydraulic tank	132 l
Final drive (each side)	5.0 l
AdBlue® tank	23.1 l

Swing system

Type	Axial piston motor driving through planetary double reduction gearbox
Swing lock	Electrically actuated wet multidisc brake integrated into swing motor
Swing speed	0 - 12.4 rpm
Swing torque	65 kNm

Drives and brakes

Steering control	2 levers with pedals giving full independent control of each track
Drive method	Hydrostatic
Travel operation	Automatic 3-speed selection
Gradeability	70%, 35°
Max. travel speeds	
Lo / Mi / Hi	3.0 / 4.1 / 5.5 km/h
Maximum drawbar pull	20600 kg
Brake system	Hydraulically operated discs in each travel motor

Undercarriage

Construction	X-frame centre section with box section track frames
Track assembly	
Type	Fully sealed
Shoes (each side)	49
Tension	Combined spring and hydraulic unit
Rollers	
Track rollers (each side)	9
Carrier rollers (each side)	2

Environment

Engine emissions	Fully complies with EU Stage V exhaust emission regulations
Noise levels	
LwA external	100 dB(A) (2000/14/EC Stage II)
LpA operator ear	67 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)	
Hand/arm	≤ 2.5 m/s² (uncertainty K = 0.49 m/s²)
Body	≤ 0.5 m/s² (uncertainty K = 0.24 m/s²)

Contains fluorinated greenhouse gas HFC-134a (GWP 1430).
Quantity of gas 0.9 kg; CO_2 equivalent 1.29 t

Operating weight (appr.)

	Mono boom	
Triple grouser shoes	**Operating weight**	**Ground pressure**
600 mm	22410 kg	0.47 kg/cm^2
700 mm	22690 kg	0.41 kg/cm^2
800 mm	23010 kg	0.36 kg/cm^2
900 mm	23340 kg	0.33 kg/cm^2

Operating weight, including specified work equipment, 2.9 m arm, 0.8 m^3 bucket, operator, lubricant, coolant, full fuel tank and the standard equipment.

Max. bucket capacity and weight

	Mono boom	
Arm length	**2.9 m**	
Material weight up to 1.2 t/m^3	1.65 m^3	1150 kg
Material weight up to 1.5 t/m^3	1.40 m^3	1025 kg
Material weight up to 1.8 t/m^3	1.22 m^3	925 kg

Max. capacity and weight have been calculated according to ISO 10567:2007.
Please consult with your distributor for the correct selection of buckets and attachments to suit the application.

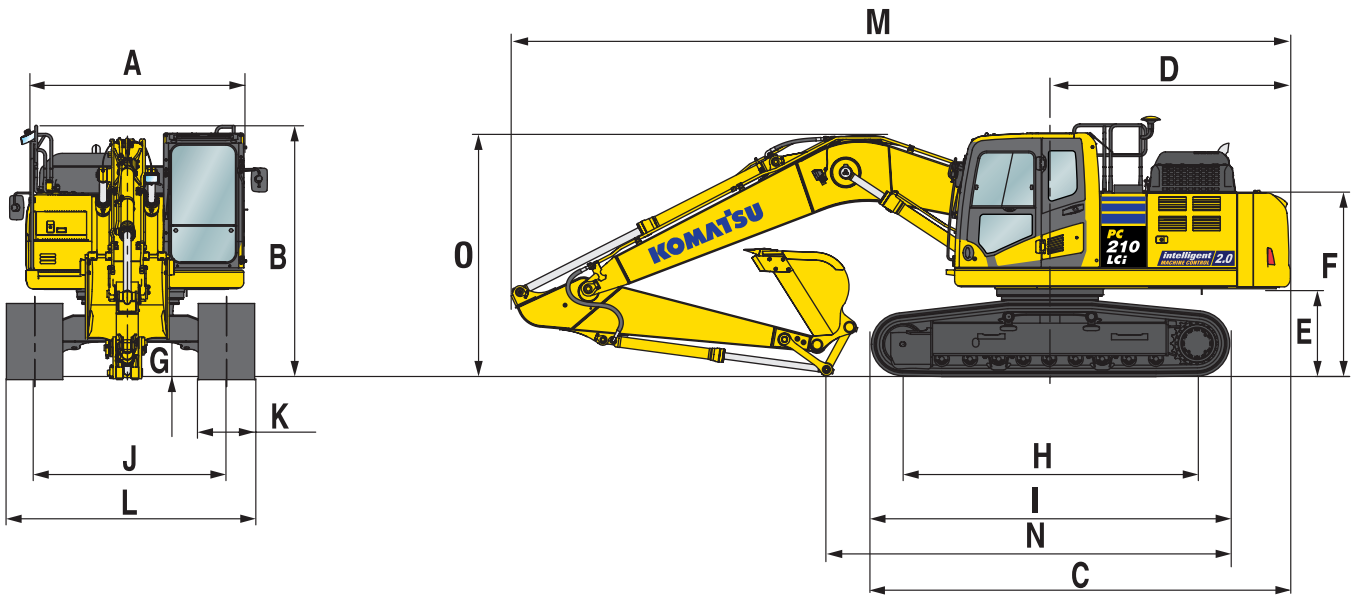
Bucket and arm force

Arm length	**2.9 m**
Bucket digging force	14100 kg
Bucket digging force at PowerMax	15200 kg
Arm crowd force	10300 kg
Arm crowd force at PowerMax	11000 kg

Dimensions and performance figures

Machine dimensions

A	Overall width of upper structure	2850 mm
B	Overall height (top of cab)	3045 mm
	Overall height (handrail)	3135 mm
C	Overall length of basic machine	5135 mm
D	Tail length	2910 mm
	Tail swing radius	2940 mm
E	Clearance under counterweight	1085 mm
F	Machine tail height	2250 mm
G	Ground clearance	440 mm
H	Tumbler centre distance	3655 mm
I	Track length	4450 mm
J	Track gauge	2380 mm
K	Track shoe width	600, 700, 800, 900 mm
L	Overall track width with 600 mm shoes	2980 mm
	Overall track width with 700 mm shoes	3080 mm
	Overall track width with 800 mm shoes	3180 mm
	Overall track width with 900 mm shoes	3280 mm

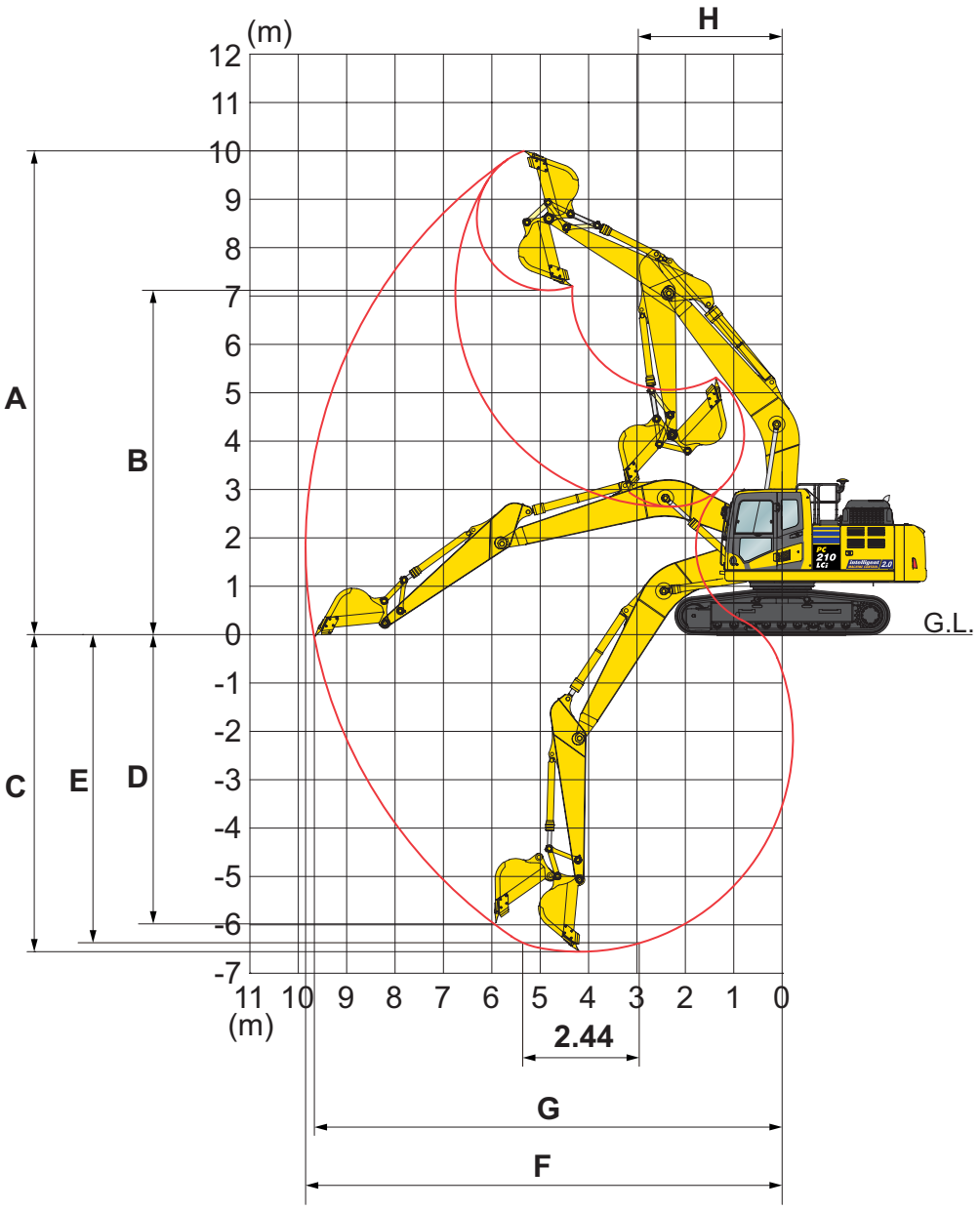


Transport dimensions

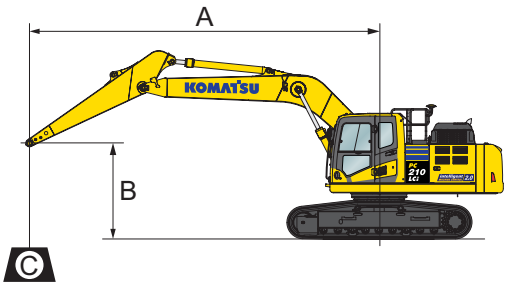
	Arm length	2.9 m
M	Transport length	9625 mm
N	Length on ground (transport)	5000 mm
O	Overall height (to top of boom)	2995 mm

Working range

	Arm length	2.9 m
A	Max. digging height	10000 mm
B	Max. dumping height	7110 mm
C	Max. digging depth	6620 mm
D	Max. vertical wall digging depth	5980 mm
E	Max. digging depth of cut for 2,44 m level	6370 mm
F	Max. digging reach	9875 mm
G	Max. digging reach at ground level	9700 mm
H	Min. swing radius	3040 mm



Lifting capacity



A – Reach from swing center

B – Bucket hook height

C – Lifting capacities

– Rating over front

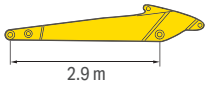
– Rating over side

– Rating at maximum reach

Weights:
With 2.9 m arm: bucket linkage and bucket cylinder: 335 kg

With 600 mm shoes

Arm length	A / B			7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	



7.5 m	kg	*4060	*4060										
6.0 m	kg	*3820	*3820										
4.5 m	kg	*3800	3700	*5770	4050	*7210	5670						
3.0 m	kg	*3930	3400	5890	3940	8260	5430	*10510	8180				
1.5 m	kg	*4210	3290	5760	3820	7980	5180	12560	7660				
0.0 m	kg	*4720	3350	5650	3730	7780	5000	12210	7370	*7200	*7200		
-1.5 m	kg	5480	3620	5620	3700	7690	4920	12100	7280	*11680	*11680	*7480	*7480
-3.0 m	kg	6520	4250			7730	4950	12170	7340	*17930	14040	*12100	*12100
-4.5 m	kg	*8800	5940					*10890	7560	*15170	14430		

* 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.
When lifting with additional equipment installed to the arm, please subtract the weight of all additional equipment from the values stated.

Notes

Standard and optional equipment

Engine

Komatsu SAA6D107E-3 turbocharged common rail direct injection diesel engine	●
EU Stage V compliant	●
Suction type cooling fan with radiator fly screen	●
Automatic engine warm-up system	●
Engine overheat prevention system	●
Fuel control dial	●
Auto-deceleration function	●
Adjustable idle shutdown	●
Engine key stop	●
Engine ignition can be password secured on request	●
Alternator 24 V / 90 A	●
Starter motor 24 V / 5.5 kW	●
Batteries 2 × 12 V / 180 Ah	●

intelligent Machine Control 2.0

Standard factory installed integrated 3D GNSS intelligent Machine Control system	●
Smart Construction Remote	●

Hydraulic system

Electronic closed-centre load sensing (E-CLSS) hydraulic system (HydrauMind)	●
Pump and engine mutual control (PEMC) system	●
6-working mode selection system; Power mode, Economy mode, Breaker mode, Attachment Power and Attachment Economy mode, and Lifting/Fine Operation mode	●
PowerMax function	●
PPC wrist control levers for arm, boom, bucket and swing, with sliding proportional control for attachments and auxiliary buttons	●
Prepared for hydraulic quick-coupler	●
Komatsu Integrated Attachment Control (KIAC)	○
Additional hydraulic functions	○

Undercarriage

Track roller guards	●
Track frame under-guards	●
600, 700, 800, 900 mm triple grouser shoes	○
Full length track roller guards	○

Cabin

Reinforced safety SpaceCab™; highly pressurised and tightly sealed hyper viscous mounted cab with tinted safety glass windows, large roof window with sun shade, pull-up type front window with locking device, removable lower window, front window wiper with intermittent feature, sun roller blind, cigarette lighter, ashtray, luggage shelf, std. floor mat, additional floor mat	●
Heated, high-back air-suspended seat with lumbar support, console mounted height adjustable arm rests, and retractable seat belt	●
Automatic climate control system	●
12 / 24 Volt power supplies	●
USB-A / USB-C power supplies	●
Utility bar	●
Beverage holder and magazine rack	●
Hot and cool box	●
DAB+ radio with Bluetooth®, USB, AUX and hands-free kit	●
Premium comfort seat	○
Lower wiper	○
Rain visor (not with OPG)	○

LED lighting system

Working lights: 2 revolving frame, 1 boom (l.h.)	●
Coming home light function	●
Additional working lights (#1): 2 cab roof (front), 1 cab roof (rear), 1 boom (r.h.), 1 counterweight, beacon	○
Additional working lights (#2): 4 cab roof (front), 1 cab roof (rear), 1 boom (r.h.), 1 counterweight, 2 boom cylinders, 2 revolving frame (l.h. + r.h.), beacon	○

Safety equipment

KomVision surround view system	●
Electric horn	●
Overload warning device	●
Audible travel alarm	●
Boom safety valves	●
Large handrails	●
Rear-view mirrors (for cab adjustable without tools)	●
Battery main switch	●
ROPS compliant to ISO 12117-2:2008	●
Emergency engine stop switch	●
Seat belt caution indicator	●
Neutral position detection system	●
Arm safety valve	●
OPG Level II front guard (FOPS), hinged type	○
OPG Level II front guard (FOPS)	○

Drives and brakes

Hydrostatic, 3-speed travel system with automatic shift and planetary gear type final drives, and hydraulic travel and parking brakes	●
PPC control levers and pedals for steering and travel	●

Service and maintenance

Automatic fuel line de-aeration	●
Double element type air cleaner with dust indicator and auto dust evacuator	●
Komtrax – Komatsu wireless monitoring system (4G)	●
Komatsu Care – a maintenance program for Komatsu customers	●
Multifunction video compatible colour monitor with Equipment Management and Monitoring System (EMMS) and efficiency guidance	●
Toolkit	●
Service points	○
Automatic greasing system	○

Work equipment

Mono boom	●
2.9 m arm	●
Tilt bucket preparation including quick release electrical connection on arm	●
IMU Sensor kit for tilt bucket integration	○
Bucket linkage with lifting eye	○
Komatsu buckets	○
Komatsu breakers	○

Other equipment

Standard counterweight	●
Remote greasing for swing circle and pins	●
Electric refuelling pump with automatic shut-off function	●
Biodegradable oil for hydraulic system	○
Customised paint	○

Further equipment on request

● standard equipment
○ optional equipment

A wide range of buckets and attachments is available. Your Komatsu distributor is ready to assist you with the selection of suitable options.

This specification sheet may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require.
Materials and specifications are subject to change without notice.

Your Komatsu partner:

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