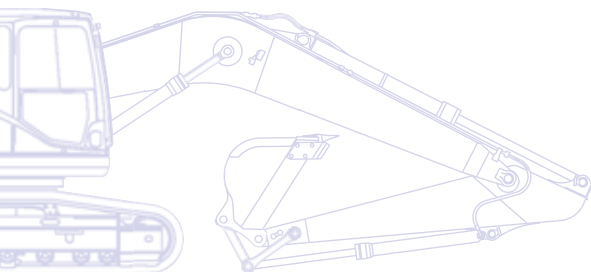


# KOMATSU

**PC**  
**290**



## Hydraulic Excavator **PC290LC/NLC-10**



### ENGINE POWER

159 kW / 213 HP @ 2.050 rpm

### OPERATING WEIGHT

PC290LC-10: 29.900 - 32.230 kg

PC290NLC-10: 29.800 - 32.130 kg

### BUCKET CAPACITY

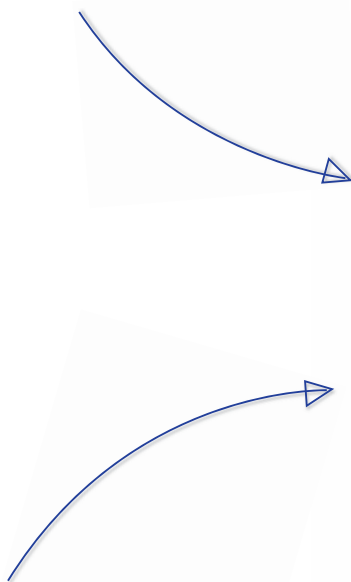
max. 2,02 m<sup>3</sup>

# Walk-Around

Built around the EU Stage IIIB/EPA Tier 4 interim engine platform, Komatsu's latest generation of excavators continues a long tradition of uncompromising quality and total customer support, while renewing a commitment to safety and environmental protection. Increased net horsepower, lower fuel consumption and emissions, and the advanced electronic control system that manages airflow rate, fuel injection and combustion parameters to optimize performance and further reduce particulate matter and nitrogen oxides in the exhaust: you can trust "Dash 10" machines to keep their promises of excellence.

## Powerful and environmentally friendly

- Low consumption EU Stage IIIB/EPA Tier 4 interim engine
- Fuel-saving engine and hydraulic technology
- Adjustable Eco-gauge and idle caution
- Reduced wastage



## Total versatility

- Ideal for a wide range of applications
- 6 working modes
- Wide choice of options
- Built-in versatility
- Ultimate operator control



Complimentary maintenance program for customers



Komatsu Wireless Monitoring System

# PC290-10

## ENGINE POWER

159 kW / 213 HP @ 2.050 rpm

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PC290LC-10: 29.900 - 32.230 kg

PC290NLC-10: 29.800 - 32.130 kg

## BUCKET CAPACITY

max. 2,02 m<sup>3</sup>



## First-class operator comfort

- Fully air suspended operator station
- Low noise design
- Low vibration levels
- Large, widescreen hi-res display monitor
- Improved operator convenience

## Highest safety standards

- Safe SpaceCab™  
ROPS compliant with ISO12117-2:2008
- Low profile rear view camera
- Optimal jobsite safety
- Safe access, easy maintenance
- Falling Object Protection System (FOPS) optional



## Quality you can rely on

- Reliable and efficient
- Rugged design
- Komatsu-quality components
- Extensive dealer support network

# Total Versatility

## Ideal for a wide range of applications

Powerful and precise, the Komatsu PC290-10 is equipped to efficiently carry out any task your business requires. On big sites or small, for digging, trenching, landscaping or site preparation, the Komatsu original equipment hydraulic system always ensures maximum productivity and control.

## 6 working modes

Power, Lifting, Breaker, Economy, Attachment Power and Attachment Economy modes are all available, ensuring that the PC290-10 delivers the power you need with minimised fuel usage. The Economy mode can be adjusted for an ideal balance between power and economy to match your work. The oil flow delivered to hydraulic attachments is adjustable directly on the class-leading wide screen monitor panel.



## Built-in versatility

A standard fit additional hydraulic circuit, controlled by a sliding joystick push button and a floor mounted pedal, gives the PC290-10 excellent versatility. Ten attachment memory settings are provided, with individually definable names. In combination with the standard-fit hydraulic quick coupler power circuit, changing working style is now even simpler. A second auxiliary hydraulic line is available for attachments which require extra hydraulic actuation.

## A wide choice of options

With a choice of arms and undercarriages, you can configure the PC290-10 to match specific demands for transport, working envelope or duty. Extra hydraulic arrangements are available for every boom and arm configuration, making sure that the machine always contributes strongly to your business.

## Ultimate operator control

The PC290-10 comes with a “Topcon ready” option for 3D machine guidance systems. Topcon’s latest technology for precise positioning and machine control, with its easy-to-use GX60 touch screen monitor, reduces work time and enhances job safety. It allows millimetre accuracy when digging or grading and puts the operator in total control of the excavation task.





# Powerful and Environmentally Friendly

## New Komatsu engine technology

The powerful and fuel-efficient Komatsu SAA6D107E-2 engine in the PC290-10 delivers 159 kW/189 HP and is EU Stage IIIB/ EPA Tier 4 interim certified. To maximise power, fuel efficiency and emission compliance, it is turbo charged and features direct fuel injection, air-to-air after cooling and cooled EGR.

## Fuel-saving engine and hydraulic technology

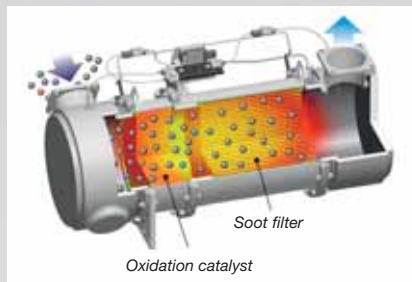
The PC290-10 features variable speed matching of the engine and hydraulic pump, and an automatic low idle. The new engine and pump control technology lower total fuel consumption and guarantee efficiency and precision during single and combined movements.

## Adjustable Eco-gauge and idle caution

The new Eco-gauge can be set to target a fuel consumption value, encouraging the operator to work as efficiently as possible. And to further avoid wasting fuel when the machine is not actually working, a standard-fit idle caution is displayed if the engine idles for 5 minutes or more.

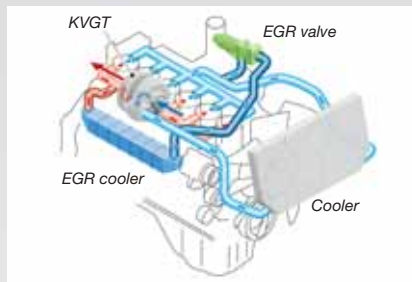
### **Komatsu Diesel Particulate Filter (KDPF)**

Komatsu's high efficiency DPF captures more than 90% of particulate matter. It includes a special oxidation catalyst with fuel injection system that can incinerate trapped particulates by either active or passive regeneration with no need to interrupt machine operations.



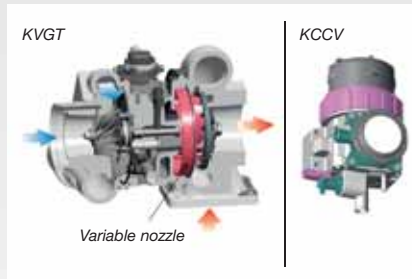
### **Exhaust Gas Recirculation (EGR)**

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 Variable Geometry Turbo (KVGIT)**

The KVGIT provides optimal air flow 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.

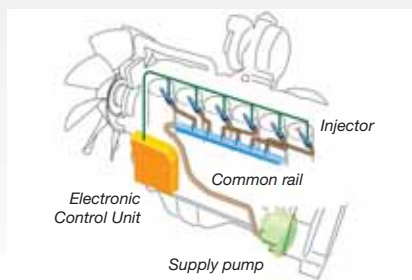


### **Komatsu Closed Crankcase Ventilation (KCCV)**

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.

### **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.





## Reduced wastage

Standard equipment on all PC290-10 includes an electric fuel pump, simple to operate and with an automatic shut-off. To further increase the system's safety, a barrier and special foams help to avoid any spilt fuel flowing towards hot areas of the machine.



# First-Class Operator Comfort

## Newly designed, spacious cab

The wide spacious cab features a new, fully air suspended operator control station that incorporates the side consoles mounted together with a high back, fully adjustable seat, heated for improved comfort.

## Improved operator convenience

With increased in-cab storage space, an auxiliary input (MP3 jack) and 12 V and 24 V power supply, the cab offers maximum convenience. The automatic air conditioner allows the operator to easily and precisely set the cab's atmosphere.

## Low noise design

Komatsu Dash 10 crawler excavators have very low external noise levels and are especially well-suited for work in confined spaces or urban areas. Reduced fan speed, a large capacity radiator, and the optimal usage of sound insulation and of sound absorbing materials help to make noise levels inside Dash 10 excavators comparable to those inside an executive car.

## Cab damper mounting

The built-in stability of the Komatsu PC290-10, combined with a highly rigid deck and a sprung multi-layer viscous mount system, drastically reduces vibration levels for the operator.



Automatic air conditioner



Hot and cool box



Joysticks with proportional control button for attachments





## Large, widescreen hi-res display monitor

To enable safe, accurate and smooth work, the user friendly monitor is the highly intuitive user interface for the machine's Equipment Management and Monitoring System (EMMS). Easily customized and with a choice of 25 languages, it features simple switches and multifunction keys that provide the operator with fingertip access to a wide range of functions and operating information.



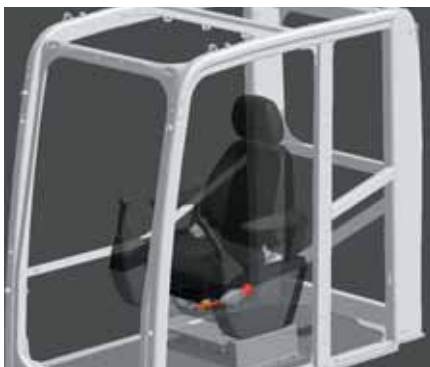
# Highest Safety Standards

## Safe SpaceCab™

The new cab is ROPS compliant with ISO 12117-2:2008. It has a tubular steel frame and provides very high shock absorbency, impact resistance and durability. The seat belt is designed to keep the operator in the safety zone of the cab in the event of a roll-over. Optionally it can be fitted with an ISO 10262 Level 2 Falling Object Protective System (FOPS) with openable front guard.

## Safe and easy maintenance

Thermal guards are placed around high temperature parts of the engine. The fan belt and pulleys are well protected and in case of damage, fire risk is reduced by a pump/engine partition that prevents hydraulic oil from spraying onto the engine. The engine hood is hinged to the rear, with anti-slip plates positioned around the engine bay to ensure safe and easy access from all sides. Exceptionally sturdy handrails further contribute to a high safety level.



Safe SpaceCab™

## Optimal job site safety

Safety features on the Komatsu PC290-10 comply with the latest industry standards and work together as a system to minimise risks to personnel in and around the machine. An audible travel alarm further promotes job site safety. Highly durable anti-slip plates – with additional high friction covering – maintain long term traction performance.

## Rear view camera

A standard fitment camera gives an exceptionally clear view of the rear work zone on the wide-screen monitor panel. The low profile camera is adjustable and integrated into the counterweight's shape.



Low profile rear view camera



Large handrails





# Quality You Can Rely On

## Reliable and efficient

Productivity is the key to success – all major components of the PC290-10 are designed and directly manufactured by Komatsu. Essential machine functions are perfectly matched for a highly reliable and productive machine.

## Rugged design

Maximum toughness and durability – along with top class customer service – are the cornerstones of Komatsu's philosophy. 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 from material falling from the bucket.

## Komatsu-quality components

With the latest computer design techniques and a thorough test programme, Komatsu's global know-how produces machines that are designed, manufactured and tested to meet your highest standards.

## Extensive dealer 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 will continue to perform at its peak.



Cast boom foot



Single piece boom plates



# Komatsu Wireless Monitoring System

## The easy way to higher productivity

KOMTRAX™ is the latest in wireless monitoring technology. It delivers insightful and cost saving information about your fleet and equipment and offers you a wealth of information to facilitate peak machine performance. By creating a tightly integrated web of support it allows pro active and preventive maintenance and helps you to efficiently run a business.

## 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 satellite from your machine to your computer and to your local Komatsu distributor - who's readily available for expert analysis and feedback.

## Convenience

KOMTRAX™ helps to conveniently manage your fleet on the web, wherever you are. Data is analysed and packaged specifically for easy and intuitive viewing in maps, lists, graphs and charts. You can anticipate the type of service and parts your machines could require, or troubleshoot problems before Komatsu technicians arrive on site.

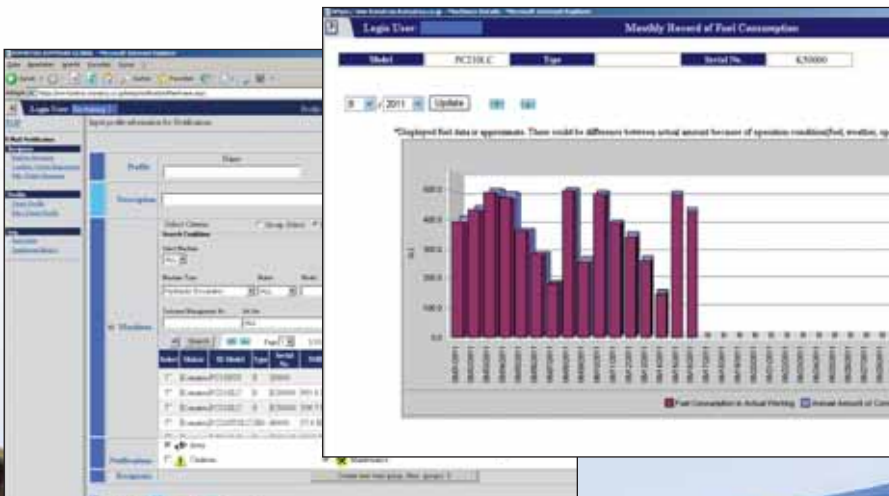


## Power

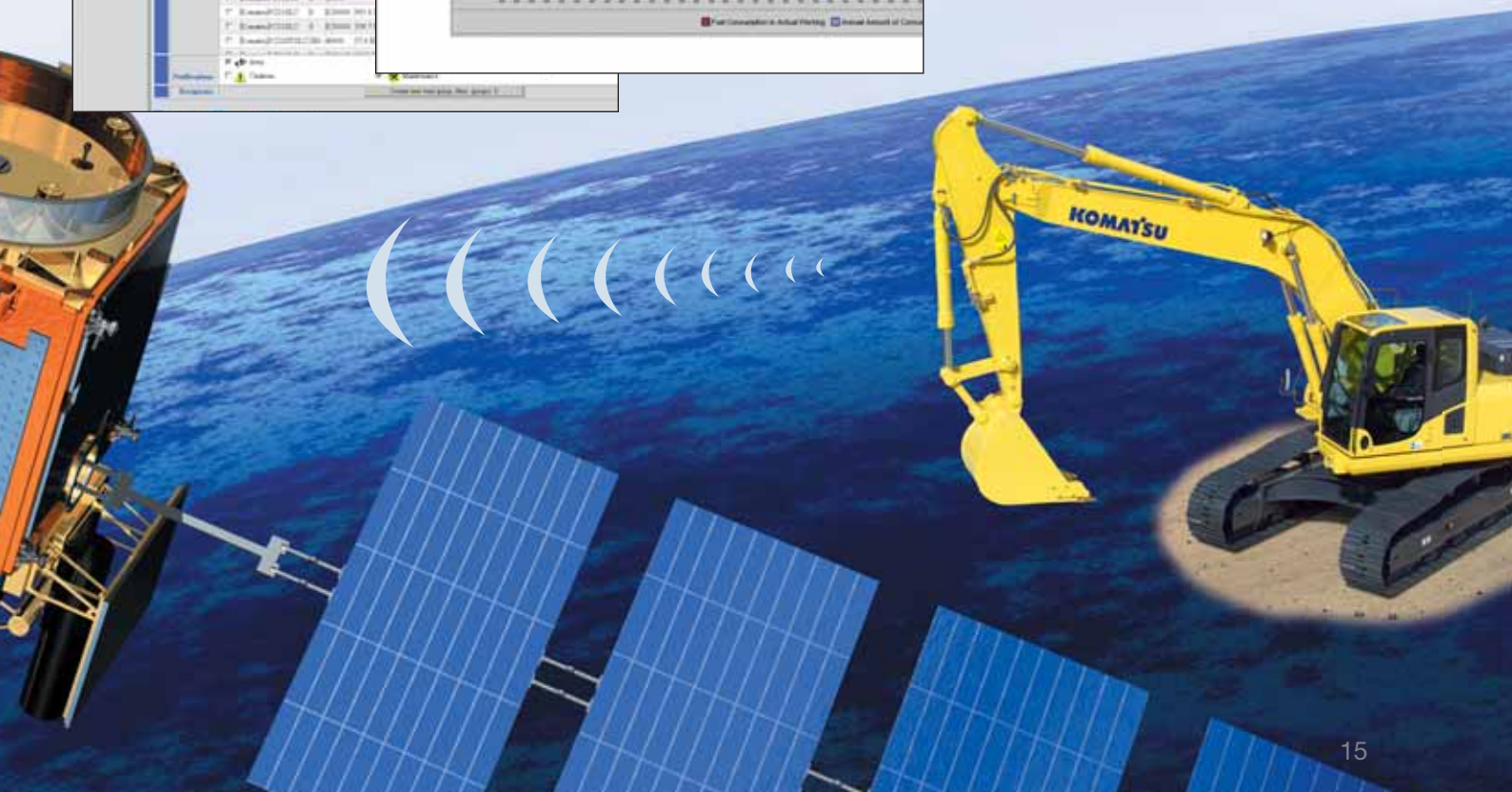
The detailed information that KOMTRAX™ puts at your fingertips 24 hours a day, 7 days a week gives you the power to make better daily and long-term strategic decisions. You can anticipate problems, customize maintenance schedules, minimize downtime and keep your machines where they belong – working on the job site.



Through the web application, a variety of search parameters are available to quickly find information about specific machines based on key factors such as utilization rates, age, various notification messages, and more.



A simple chart shows the machine's fuel consumption and helps you to calculate total costs for a job site and conveniently schedule fuel deliveries.



# Easy Maintenance

## Easy cleaning of coolers

Hinged air conditioning cooler and side-by-side radiator and oil cooler allow easy access for cleaning.



## Quick access to filters and fuel drain valve

The engine oil filter, the fuel filters and the fuel drain valve are mounted remotely to make them accessible from ground level.



## Diesel particulate filter regeneration

Soot trapped in the diesel particulate filter is periodically and automatically oxidized using the heat from the engine exhaust.



Komatsu CARE is a complimentary maintenance program for Komatsu customers that comes as standard with every new Komatsu EU Stage IIIB construction machine. For the first 3 years or 2,000 hours it covers factory-scheduled maintenance, performed by Komatsu-trained technicians with Komatsu Genuine parts. It also offers up to a maximum of 2 complimentary Komatsu Diesel Particulate Filter (KDPF) exchange units and a KDPF warranty for the first 5 years or 9,000 hours.

## Water separator

This is standard equipment which removes any water that has become mixed with the fuel, preventing fuel system damage.



## Long-life oil filters

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





## ENGINE

Model .....	Komatsu SAA6D107E-2
Type .....	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed .....	2.050 rpm
ISO 14396 .....	159 kW/213 HP
ISO 9249 (net engine power) .....	147 kW/196 HP
No. of cylinders .....	6
Bore x stroke .....	107 x 124 mm
Displacement .....	6,69 ltr
Battery .....	2 x 12 V/155 Ah
Alternator .....	24 V/60 A
Starter motor .....	24 V/5,5 kW
Air filter type .....	Double element type with monitor panel dust indicator and auto dust evacuator
Cooling .....	Suction type cooling fan with radiator fly screen

## 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 .....	2 x 239,5 ltr/min
Relief valve settings	
Implement .....	380 kg/cm <sup>2</sup>
Travel .....	380 kg/cm <sup>2</sup>
Swing .....	295 kg/cm <sup>2</sup>
Pilot circuit .....	33 kg/cm <sup>2</sup>

## UNDERCARRIAGE

Construction .....	X-frame centre section with box section track frames
Track assembly	
Type .....	Fully sealed
Shoes (each side) .....	48
Tension .....	Combined spring and hydraulic unit
Rollers	
Track rollers (each side) .....	8
Carrier rollers (each side) .....	2

## OPERATING WEIGHT (APPR.)

	MONO BOOM				TWO-PIECE BOOM			
	PC290LC-10		PC290NLC-10		PC290LC-10		PC290NLC-10	
Triple grouser shoes	Operating weight	Ground pressure	Operating weight	Ground pressure	Operating weight	Ground pressure	Operating weight	Ground pressure
600 mm	29.900 kg	0,53 kg/cm <sup>2</sup>	29.800 kg	0,53 kg/cm <sup>2</sup>	31.230 kg	0,56 kg/cm <sup>2</sup>	31.130 kg	0,56 kg/cm <sup>2</sup>
700 mm	30.300 kg	0,46 kg/cm <sup>2</sup>	30.200 kg	0,46 kg/cm <sup>2</sup>	31.630 kg	0,48 kg/cm <sup>2</sup>	31.530 kg	0,48 kg/cm <sup>2</sup>
800 mm	30.700 kg	0,41 kg/cm <sup>2</sup>	30.600 kg	0,41 kg/cm <sup>2</sup>	32.030 kg	0,43 kg/cm <sup>2</sup>	31.930 kg	0,43 kg/cm <sup>2</sup>
850 mm	30.900 kg	0,39 kg/cm <sup>2</sup>	30.800 kg	0,39 kg/cm <sup>2</sup>	32.230 kg	0,41 kg/cm <sup>2</sup>	32.130 kg	0,40 kg/cm <sup>2</sup>

Operating weight, including specified work equipment, 3,2 m arm, 1.300 kg (1,2 m<sup>3</sup>) bucket, operator, lubricant, coolant, full fuel tank and the standard equipment.

## SWING SYSTEM

Type .....	Axial piston motor driving through planetary double reduction gearbox
Swing lock .....	Electrically actuated wet multi-disc brake integrated into swing motor
Swing speed .....	0 - 10,5 rpm
Swing torque .....	88 kNm
Max. pressure .....	295 kg/cm <sup>2</sup>

## 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 .....	25.400 kg
Brake system .....	Hydraulically operated discs in each travel motor

## SERVICE REFILL CAPACITIES

Fuel tank .....	400 ltr
Radiator .....	36,0 ltr
Engine oil .....	23,1 ltr
Swing drive .....	7,2 ltr
Hydraulic tank .....	132 ltr
Final drive (each side) .....	8,5 ltr

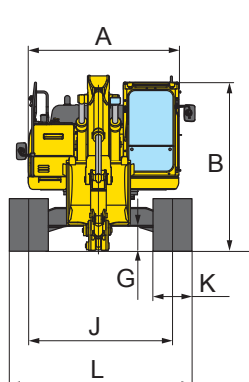
## ENVIRONMENT

Engine emissions .....	Fully complies with EU Stage IIIB and EPA Tier 4 interim exhaust emission regulations
Noise levels	
LwA external .....	104 dB(A) (2000/14/EC Stage II)
LpA operator ear .....	70 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)*	
Hand/arm .....	≤ 2,5 m/s <sup>2</sup> (uncertainty K = 0,37 m/s <sup>2</sup> )
Body .....	≤ 0,5 m/s <sup>2</sup> (uncertainty K = 0,17 m/s <sup>2</sup> )

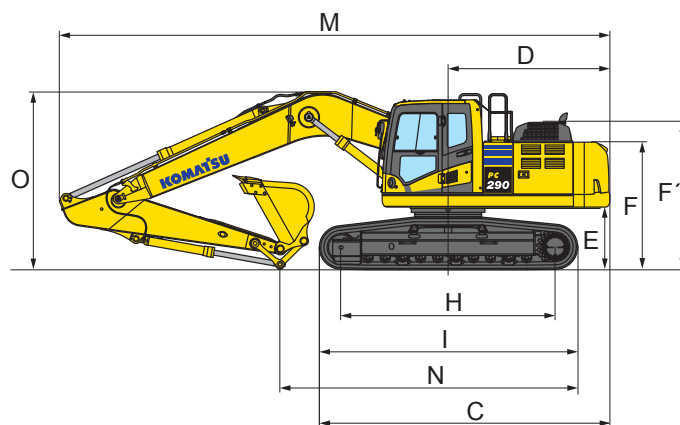
\* for the purpose of risk assessment under directive 2002/44/EC, please refer to ISO/TR 25398:2006.

# Dimensions & Performance Figures

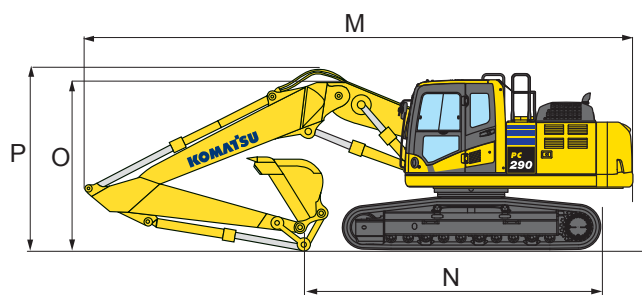
MACHINE DIMENSIONS	PC290LC-10	PC290NLC-10
A Overall width of upper structure	2.850 mm	2.850 mm
B Overall height of cab	3.180 mm	3.180 mm
C Overall length of basic machine	5.380 mm	5.380 mm
D Tail length	2.905 mm	2.905 mm
Tail swing radius	2.940 mm	2.940 mm
E Clearance under counterweight	1.215 mm	1.215 mm
F Machine tail height	2.380 mm	2.380 mm
F' Machine tail height (top of engine cover)	2.715 mm	2.715 mm
G Ground clearance	500 mm	500 mm
H Tumbler centre distance	4.030 mm	4.030 mm
I Track length	4.955 mm	4.955 mm
J Track gauge	2.590 mm	2.390 mm
K Track shoe width	600, 700, 800, 850 mm	600, 700, 800, 850 mm
L Overall track width with 600 mm shoes	3.190 mm	2.990 mm
Overall track width with 700 mm shoes	3.290 mm	3.090 mm
Overall track width with 800 mm shoes	3.390 mm	3.190 mm
Overall track width with 850 mm shoes	3.440 mm	3.240 mm



## MONO BOOM



## TWO-PIECE BOOM



TRANSPORT DIMENSIONS	MONO BOOM				TWO-PIECE BOOM		
Arm length	2,0 m	2,65 m	3,2 m	3,5 m	2,65 m	3,2 m	3,5 m
M Transport length	10.080 mm	10.240 mm	10.185 mm	10.195 mm	10.060 mm	10.030 mm	9.970 mm
N Length on ground (transport)	6.615 mm	6.425 mm	5.625 mm	5.350 mm	6.825 mm	6.155 mm	5.765 mm
O Overall height (to top of boom)	3.160 mm	3.425 mm	3.340 mm	3.375 mm	3.180 mm	3.210 mm	3.230 mm
P Overall height (to top of hose)	-	-	-	-	3.565 mm	3.620 mm	3.730 mm

**PC290LC-10 / MAX. BUCKET CAPACITY AND WEIGHT**

<b>MONO BOOM</b>								
<b>Arm length</b>	<b>2,0 m</b>		<b>2,65 m</b>		<b>3,2 m</b>		<b>3,5 m</b>	
Material weight up to 1,2 t/m <sup>3</sup>	2,02 m <sup>3</sup>	1.400 kg	2,02 m <sup>3</sup>	1.400 kg	2,02 m <sup>3</sup>	1.400 kg	2,02 m <sup>3</sup>	1.400 kg
Material weight up to 1,5 t/m <sup>3</sup>	2,02 m <sup>3</sup>	1.400 kg	1,98 m <sup>3</sup>	1.375 kg	1,78 m <sup>3</sup>	1.300 kg	1,72 m <sup>3</sup>	1.275 kg
Material weight up to 1,8 t/m <sup>3</sup>	1,93 m <sup>3</sup>	1.350 kg	1,71 m <sup>3</sup>	1.275 kg	1,50 m <sup>3</sup>	1.200 kg	1,49 m <sup>3</sup>	1.175 kg

<b>TWO-PIECE BOOM</b>								
<b>Arm length</b>	<b>2,65 m</b>		<b>3,2 m</b>		<b>3,5 m</b>			
Material weight up to 1,2 t/m <sup>3</sup>	2,02 m <sup>3</sup>	1.400 kg	2,02 m <sup>3</sup>	1.400 kg	1,99 m <sup>3</sup>	1.400 kg		
Material weight up to 1,5 t/m <sup>3</sup>	1,95 m <sup>3</sup>	1.375 kg	1,75 m <sup>3</sup>	1.275 kg	1,68 m <sup>3</sup>	1.250 kg		
Material weight up to 1,8 t/m <sup>3</sup>	1,69 m <sup>3</sup>	1.250 kg	1,52 m <sup>3</sup>	1.175 kg	1,46 m <sup>3</sup>	1.150 kg		

**PC290NLC-10 / MAX. BUCKET CAPACITY AND WEIGHT**

<b>MONO BOOM</b>								
<b>Arm length</b>	<b>2,0 m</b>		<b>2,65 m</b>		<b>3,2 m</b>		<b>3,5 m</b>	
Material weight up to 1,2 t/m <sup>3</sup>	2,02 m <sup>3</sup>	1.400 kg	2,02 m <sup>3</sup>	1.400 kg	1,88 m <sup>3</sup>	1.350 kg	1,82 m <sup>3</sup>	1.300 kg
Material weight up to 1,5 t/m <sup>3</sup>	2,00 m <sup>3</sup>	1.400 kg	1,77 m <sup>3</sup>	1.300 kg	1,59 m <sup>3</sup>	1.200 kg	1,54 m <sup>3</sup>	1.200 kg
Material weight up to 1,8 t/m <sup>3</sup>	1,73 m <sup>3</sup>	1.275 kg	1,53 m <sup>3</sup>	1.175 kg	1,30 m <sup>3</sup>	1.125 kg	1,33 m <sup>3</sup>	1.100 kg

<b>TWO-PIECE BOOM</b>								
<b>Arm length</b>	<b>2,65 m</b>		<b>3,2 m</b>		<b>3,5 m</b>			
Material weight up to 1,2 t/m <sup>3</sup>	2,02 m <sup>3</sup>	1.400 kg	1,85 m <sup>3</sup>	1.325 kg	1,78 m <sup>3</sup>	1.300 kg		
Material weight up to 1,5 t/m <sup>3</sup>	1,74 m <sup>3</sup>	1.275 kg	1,56 m <sup>3</sup>	1.200 kg	1,50 m <sup>3</sup>	1.175 kg		
Material weight up to 1,8 t/m <sup>3</sup>	1,51 m <sup>3</sup>	1.175 kg	1,35 m <sup>3</sup>	1.100 kg	1,30 m <sup>3</sup>	1.075 kg		

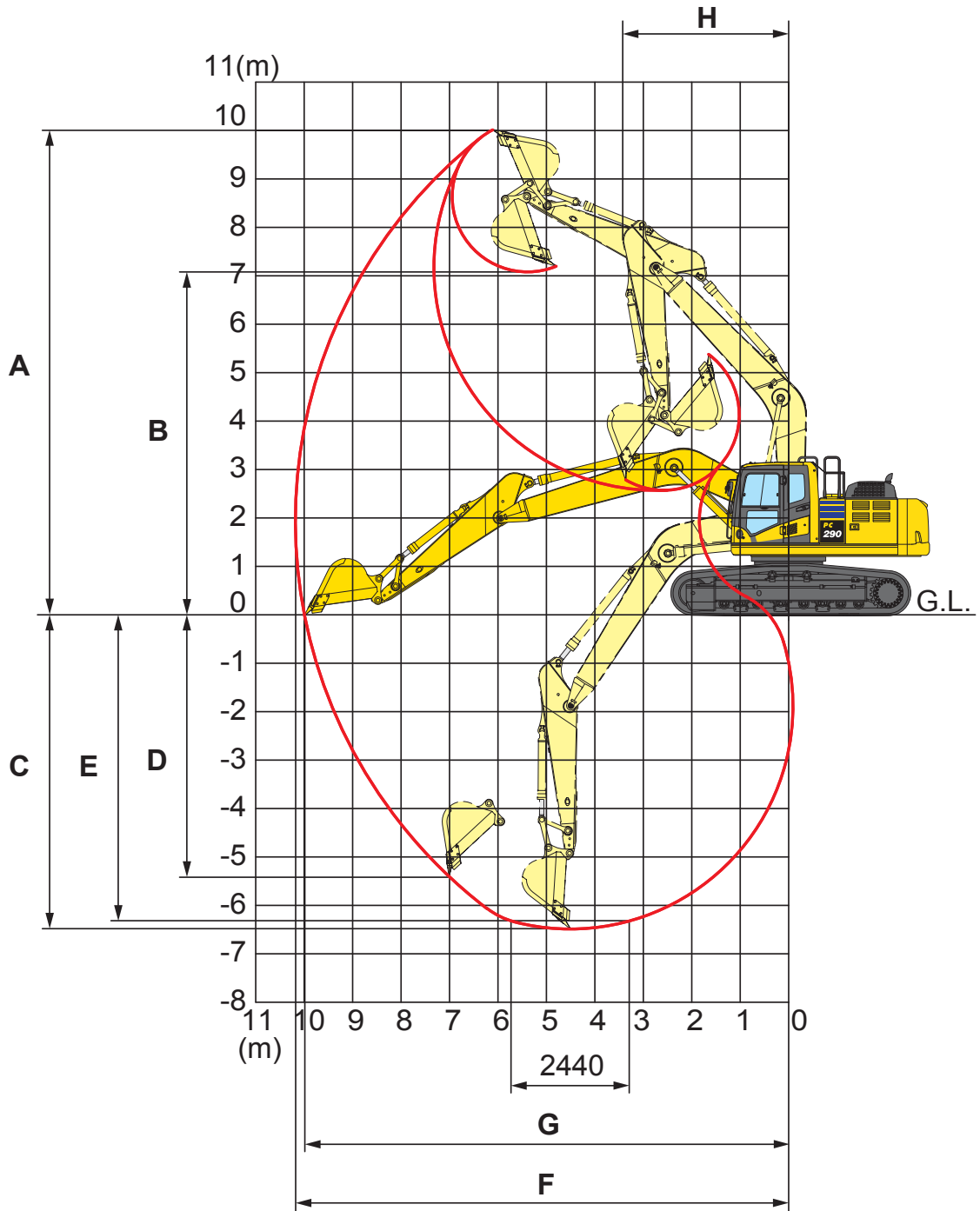
Max. capacity and weight have been calculated according to ISO 10567:2007.  
Please consult with your distributor for the correct selection of buckets and attachments to suit the application.

**BUCKET AND ARM FORCE**

<b>Arm length</b>	<b>2,0 m</b>	<b>2,65 m</b>	<b>3,2 m</b>	<b>3,5 m</b>
Bucket digging force	21.600 kg	21.600 kg	18.800 kg	18.800 kg
Bucket digging force at PowerMax	23.100 kg	23.100 kg	20.200 kg	20.200 kg
Arm crowd force	17.600 kg	15.280 kg	13.420 kg	12.000 kg
Arm crowd force at PowerMax	18.800 kg	16.320 kg	14.370 kg	12.800 kg

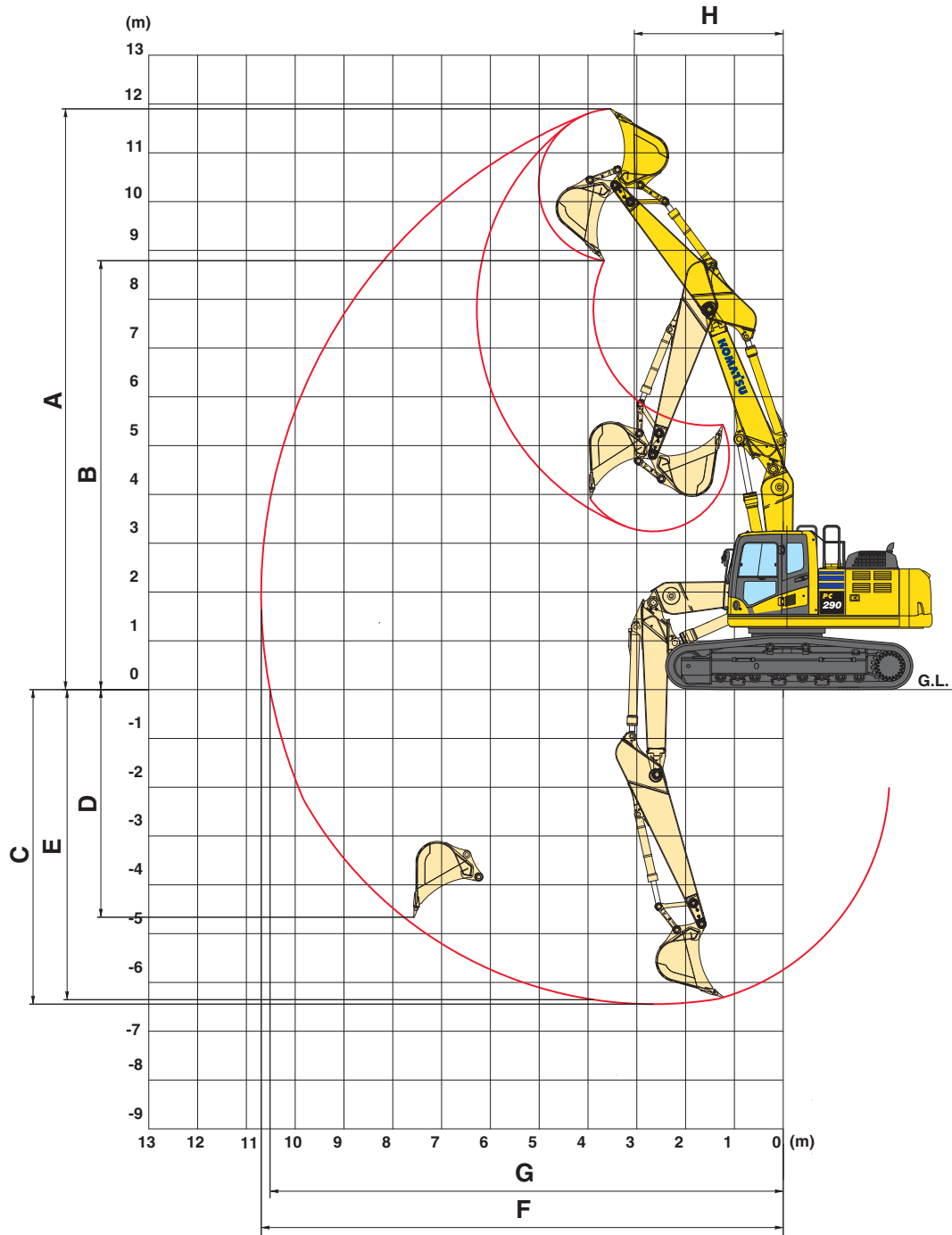
# Working Range

## MONO BOOM



ARM LENGTH	2,0 m	2,65 m	3,2 m	3,5 m
A Max. digging height	9.780 mm	9.985 mm	10.345 mm	10.355 mm
B Max. dumping height	6.830 mm	7.040 mm	7.370 mm	7.435 mm
C Max. digging depth	5.720 mm	6.360 mm	6.915 mm	7.220 mm
D Max. vertical wall digging depth	3.910 mm	5.365 mm	6.135 mm	5.110 mm
E Max. digging depth of cut for 2,44 m level	5.500 mm	6.175 mm	6.755 mm	7.070 mm
F Max. digging reach	9.570 mm	10.095 mm	10.635 mm	10.890 mm
G Max. digging reach at ground level	9.370 mm	9.905 mm	10.455 mm	10.715 mm
H Min. swing radius	3.620 mm	3.740 mm	3.680 mm	3.740 mm

## TWO-PIECE BOOM

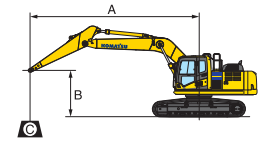


ARM LENGTH	2,0 m	2,65 m	3,2 m	3,5 m
A Max. digging height	10.960 mm	11.295 mm	11.880 mm	12.065 mm
B Max. dumping height	7.870 mm	8.315 mm	8.785 mm	8.985 mm
C Max. digging depth	5.255 mm	5.870 mm	6.430 mm	6.715 mm
D Max. vertical wall digging depth	4.110 mm	4.535 mm	5.250 mm	5.440 mm
E Max. digging depth of cut for 2,44 m level	5.150 mm	5.775 mm	6.340 mm	6.630 mm
F Max. digging reach	9.545 mm	10.120 mm	10.675 mm	10.945 mm
G Max. digging reach at ground level	9.345 mm	9.935 mm	10.495 mm	10.770 mm
H Min. swing radius	2.680 mm	3.190 mm	3.055 mm	3.110 mm

# Lifting Capacity

## PC290LC-10 MONO BOOM

Arm length	A		9,0 m		7,5 m		6,0 m		4,5 m		3,0 m			
	B													
 3,5 m	7,5 m	kg	*4.310	*4.310										
	6,0 m	kg	*4.160	*4.160			*6.620	6.110						
	4,5 m	kg	*4.170	*4.170			*7.340	5.970	*8.000	*8.000				
	3,0 m	kg	*4.310	4.230	*5.760	4.430	*8.030	5.780	*9.340	7.940	*12.010	*12.010		
	1,5 m	kg	*4.590	4.120	6.500	4.330	8.460	5.570	*10.660	7.550	*14.480	11.260		
	0,0 m	kg	*5.060	4.180	*6.050	4.250	8.280	5.410	11.480	7.270	*15.840	10.810	*7.940	*7.940
	-1,5 m	kg	*5.850	4.440			8.180	5.320	11.310	7.130	*16.080	10.650	*12.180	*12.180
	-3,0 m	kg	*7.310	5.010			8.200	5.330	11.300	7.110	*15.350	10.670	*17.770	*17.770
-4,5 m	kg	*8.640	6.290					*10.100	7.250	*13.450	10.870	*18.480	*18.480	
 3,2 m	7,5 m	kg	*4.720	*4.720										
	6,0 m	kg	*4.530	*4.530			*6.810	6.050	*7.380	*7.380				
	4,5 m	kg	*4.530	*4.530			*7.600	5.930	*8.360	8.260	*9.860	*9.860		
	3,0 m	kg	*4.670	4.390	*4.810	4.400	*8.250	5.740	*9.670	7.880	*12.600	11.910		
	1,5 m	kg	*4.980	4.270	*5.580	4.320	8.440	5.550	*10.920	7.520	*14.920	11.180		
	0,0 m	kg	*5.510	4.340			8.280	5.410	11.470	7.260	*16.030	10.800		
	-1,5 m	kg	*6.410	4.640			8.200	5.340	11.330	7.150	*16.040	10.680	*12.240	*12.240
	-3,0 m	kg	8.100	5.300			8.250	5.380	11.350	7.160	*15.100	10.740	*18.740	*18.740
-4,5 m	kg	*8.740	6.810					*9.570	7.330	*12.890	10.970	*17.440	*17.440	
 2,65 m	7,5 m	kg	*6.990	*6.990					*7.860	*7.860				
	6,0 m	kg	*6.700	5.940			*6.730	5.950	*8.090	*8.090				
	4,5 m	kg	*6.730	5.170			*8.110	5.870	*9.010	8.140	*10.940	*10.940		
	3,0 m	kg	*7.000	4.780			8.600	5.700	*10.240	7.780	*13.640	11.650		
	1,5 m	kg	7.000	4.650			8.420	5.540	*11.350	7.460	*15.610	11.030		
	0,0 m	kg	7.190	4.750			8.290	5.420	11.450	7.260	*16.220	10.780		
	-1,5 m	kg	7.820	5.130			8.250	5.390	11.370	7.190	*15.820	10.750	*12.950	*12.950
	-3,0 m	kg	*9.180	6.020					*11.040	7.250	*14.470	10.870	*19.320	*19.320
-4,5 m	kg	*9.130	8.300							*11.580	11.170			
 2,0 m	6,5 m	kg	*8.010	*8.010										
	6,0 m	kg	*7.540	6.720					*8.950	8.320	*10.040	*10.040		
	4,5 m	kg	*7.520	5.730			*8.710	5.830	*9.780	8.080	*12.260	*12.260		
	3,0 m	kg	*7.800	5.270			8.600	5.720	*10.920	7.750	*14.940	11.450		
	1,5 m	kg	7.720	5.140			8.460	5.590	11.700	7.490				
	0,0 m	kg	7.990	5.280			8.380	5.510	11.530	7.340	*16.240	10.910		
	-1,5 m	kg	8.850	5.800					11.510	7.330	*15.390	10.950	*12.450	*12.450
	-3,0 m	kg	*9.620	7.060					*10.290	7.460	*13.560	11.130	*16.990	*16.990
-4,5 m	kg													



A – Reach from swing center

B – Bucket hook height

C – Lifting capacities

– Rating over front

– Rating over side

– Rating at maximum reach

With 700 mm shoes

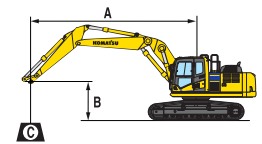
Weights:

With 2,0 and 2,65 m arm: bucket linkage and bucket cylinder: 390 kg

With 3,2 and 3,5 m arm: bucket linkage and bucket cylinder: 363 kg

## PC290LC-10 TWO-PIECE BOOM

Arm length	A		9,0 m		7,5 m		6,0 m		4,5 m		3,0 m	
	B											
 3,5 m	6,0 m	kg	*3.840	*3.840			*6.340	6.090	*6.590	*6.590		
	4,5 m	kg	*3.790	*3.790	*4.940	4.440	*7.190	5.940	*8.190	*8.190	*7.940	*7.940
	3,0 m	kg	*3.840	*3.840	*6.340	4.340	*8.190	5.690	*9.590	7.940	*12.290	12.140
	1,5 m	kg	*4.040	3.890	6.490	4.190	8.490	5.440	*10.640	7.390	*14.440	11.090
	0,0 m	kg	*4.390	3.940	5.290	4.140	8.240	5.240	*11.290	7.040	*15.340	10.440
	-1,5 m	kg	*4.940	4.190	*5.990	4.090	8.140	5.140	11.240	6.840	*15.190	10.240
	-3,0 m	kg					*8.140	5.140	*10.590	6.840	*13.940	10.240
 3,2 m	6,0 m	kg	*4.090	*4.090			*6.640	6.040	*7.190	*7.190		
	4,5 m	kg	*4.040	*4.040			*7.740	5.890	*8.940	*8.240	*9.140	*9.140
	3,0 m	kg	*4.090	*4.090	*6.040	4.340	*8.390	5.690	*9.890	7.840	*12.840	11.990
	1,5 m	kg	*4.340	4.040	6.490	4.240	8.490	5.440	*10.890	7.390	*14.840	11.040
	0,0 m	kg	*4.690	4.090	6.440	4.140	8.290	5.240	*11.440	7.040	*15.490	10.490
	-1,5 m	kg	*5.340	4.390			8.190	5.190	*11.290	6.940	*15.090	10.340
	-3,0 m	kg							*10.440	6.940		
 2,65 m	6,0 m	kg	*5.990	5.640			7.040	5.840	*8.640	8.440	*8.490	*8.490
	4,5 m	kg	*5.940	4.890			*8.190	5.740	*9.440	8.090	*11.490	11.490
	3,0 m	kg	*6.140	4.490			8.590	5.540	*10.340	7.640	*13.490	11.590
	1,5 m	kg	*6.540	4.390			8.390	5.340	*11.140	7.240		
	0,0 m	kg	6.990	4.490			8.240	5.240	11.390	6.990	*15.490	10.440
	-1,5 m	kg	7.590	4.840			8.190	4.590	*11.140	6.940	14.640	10.440
	-3,0 m	kg										
 2,0 m	6,0 m	kg	*6.240	6.190					*9.240	8.140	*10.690	*10.690
	4,5 m	kg	*6.140	5.290			*8.590	5.540	*9.940	7.840	*12.440	*12.140
	3,0 m	kg	*6.340	4.840			*8.440	5.440	*10.740	7.440	*14.390	11.240
	1,5 m	kg	*6.840	4.690			8.290	5.240	*11.390	7.140		
	0,0 m	kg	7.590	4.840			8.190	5.190	11.390	6.990	*15.190	10.440
	-1,5 m	kg							*10.740	6.990		
	-3,0 m	kg										



A – Reach from swing center

B – Bucket hook height

C – Lifting capacities

– Rating over front

– Rating over side

– Rating at maximum reach

With 600 mm shoes

Weights:

With 2,0 and 2,65 m arm: bucket linkage and bucket cylinder: 390 kg













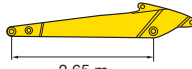
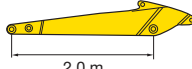
With 3,2 and 3,5 m arm: bucket linkage and bucket cylinder: 363 kg

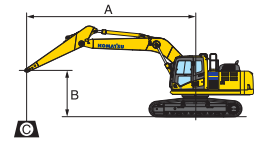
\* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097.

Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting capacity stated is based on lifting with bare arm. When lifting with additional equipment installed to the arm, please subtract the weight of all additional equipment from the values stated.

## PC290NLC-10 MONO BOOM

Arm length	A		9,0 m		7,5 m		6,0 m		4,5 m		3,0 m			
	B													
 3,5 m	7,5 m	kg	*4.310	*4.310										
	6,0 m	kg	*4.160	*4.160			*6.620	5.520						
	4,5 m	kg	*4.170	4.070			*7.340	5.380	*8.000	7.500				
	3,0 m	kg	*4.310	3.790	*5.760	3.970	*8.030	5.190	*9.340	7.120	*12.010	10.720		
	1,5 m	kg	*4.590	3.690	6.310	3.870	8.220	4.990	*10.660	6.740	*14.480	9.950		
	0,0 m	kg	*5.060	3.730	*6.050	3.800	8.040	4.830	11.150	6.460	*15.840	9.510	*7.940	*7.940
	-1,5 m	kg	*5.850	3.690			7.940	4.740	10.980	6.320	*16.080	9.350	*12.180	*12.180
-3,0 m	kg	*7.310	4.470			7.950	4.750	10.960	6.310	*15.350	9.380	*17.770	*17.770	
-4,5 m	kg		8.640	5.610				*10.100	6.440	*13.450	9.570	*18.480	18.440	
 3,2 m	7,5 m	kg	*4.720	*4.720										
	6,0 m	kg	*4.530	*4.530			*6.810	5.460	*7.380	*7.380				
	4,5 m	kg	*4.530	4.230			*7.600	5.340	*8.360	7.430	*9.860	*9.860		
	3,0 m	kg	*4.670	3.930	*4.810	3.940	*8.250	5.160	*9.670	7.060	*12.600	10.580		
	1,5 m	kg	*4.980	3.820	*5.580	3.860	8.190	4.970	*10.920	6.700	*14.920	9.870		
	0,0 m	kg	*5.510	3.880			8.030	4.830	11.130	6.460	*16.030	9.500		
	-1,5 m	kg	*6.410	4.140			7.960	4.760	11.000	6.340	*16.040	9.390	*12.240	*12.240
-3,0 m	kg	7.860	4.720			8.000	4.800	11.010	6.350	*15.100	9.450	*18.740	18.210	
-4,5 m	kg	*8.740	6.070					*9.570	6.520	*12.890	9.670	*17.440	*17.440	
 2,65 m	7,5 m	kg	*6.990	6.810				*7.860	7.680					
	6,0 m	kg	*6.700	5.350			*6.730	5.360	*8.090	7.590				
	4,5 m	kg	*6.730	4.640			*8.110	5.280	*9.010	7.320	*10.940	*10.940		
	3,0 m	kg	6.950	4.290			8.350	5.120	*10.240	6.960	*13.640	10.330		
	1,5 m	kg	6.790	4.160			8.170	4.950	11.350	6.650	*15.610	9.730		
	0,0 m	kg	6.970	4.250			8.040	4.840	11.120	6.450	*16.220	9.480		
	-1,5 m	kg	7.590	4.580			8.010	4.810	11.040	6.380	*15.820	9.450	*12.950	*12.950
-3,0 m	kg	9.000	5.370					*11.040	6.440	*14.470	9.570	*19.320	18.490	
-4,5 m	kg	*9.130	7.390							*11.580	9.860			
 2,0 m	7,5 m	kg	*8.010	*8.010					*8.950	7.500	*10.040	*10.040		
	6,0 m	kg	*7.540	6.050					*8.950	7.500	*10.040	*10.040		
	4,5 m	kg	*7.520	5.160			8.480	5.250	*9.780	7.250	*12.260	10.930		
	3,0 m	kg	7.680	4.730			8.350	5.130	*10.920	6.940	*14.940	10.140		
	1,5 m	kg	7.500	4.600			8.210	5.010	11.360	6.680				
	0,0 m	kg	7.750	4.730			8.130	4.930	11.200	6.540	*16.240	9.610		
	-1,5 m	kg	8.590	5.190					11.180	6.520	*15.390	9.660	*12.450	*12.450
-3,0 m	kg	*9.620	6.300					*10.290	6.650	*13.560	9.820	*16.990	*16.990	
-4,5 m	kg													



A – Reach from swing center

B – Bucket hook height

C – Lifting capacities

 – Rating over front

 – Rating over side

 – Rating at maximum reach












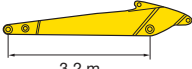
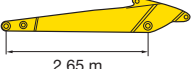
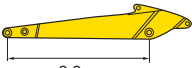
With 600 mm shoes

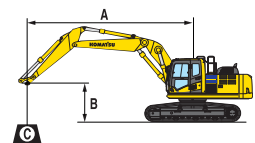
Weights:

With 2,0 and 2,65 m arm: bucket linkage and bucket cylinder: 390 kg

With 3,2 and 3,5 m arm: bucket linkage and bucket cylinder: 363 kg

## PC290NLC-10 TWO-PIECE BOOM

Arm length	A		9,0 m		7,5 m		6,0 m		4,5 m		3,0 m	
	B											
 3,5 m	6,0 m	kg	*3.840	*3.840			*6.340	5.490	*6.590	*6.590		
	4,5 m	kg	*3.790	*3.790	*4.940	3.940	*7.190	5.340	*8.190	*7.490	*7.940	*7.940
	3,0 m	kg	*3.840	3.540	6.240	3.890	*8.190	5.090	*9.590	7.090	*12.290	10.790
	1,5 m	kg	*4.040	3.440	6.090	3.740	7.990	4.840	*10.640	6.590	*14.440	9.790
	0,0 m	kg	*4.390	3.490	5.990	3.640	7.740	4.640	10.690	6.240	*15.340	9.140
	-1,5 m	kg	*4.940	3.690	*5.990	3.640	7.640	4.540	10.490	6.040	*15.190	8.940
	-3,0 m	kg					7.640	4.540	*10.490	6.040	*13.940	8.940
 3,2 m	6,0 m	kg	*4.090	*4.090			*6.640	5.440	*7.190	*7.190		
	4,5 m	kg	*4.040	3.990			*7.740	5.290	*8.940	7.490	*9.140	9.140
	3,0 m	kg	*4.090	3.690	*6.040	3.840	*8.390	5.090	*9.890	6.990	*12.840	10.640
	1,5 m	kg	*4.340	3.590	6.240	3.740	8.140	4.840	10.890	6.540	*14.840	9.690
	0,0 m	kg	*4.690	3.640	6.190	3.690	7.940	4.640	11.040	6.240	*15.490	9.190
	-1,5 m	kg	*5.340	3.890			7.890	4.590	10.840	6.090	*15.090	9.040
	-3,0 m	kg							*10.840	6.140		
 2,65 m	6,0 m	kg	*6.190	6.190					*9.240	8.140	*10.690	*10.690
	4,5 m	kg	*6.140	5.290			*8.590	7.840	*9.940	7.840	*12.440	12.140
	3,0 m	kg	*6.340	4.840			8.440	5.440	*10.740	7.440	*14.390	11.240
	1,5 m	kg	*6.840	4.690			8.290	5.240	*11.390	7.140		
	0,0 m	kg	7.590	4.840			8.190	5.190	11.390	6.990	*15.190	10.440
	-1,5 m	kg							*10.740	6.990		
	-3,0 m	kg										
 2,0 m	6,0 m	kg	*5.990	5.040			*7.040	5.240	*8.640	7.590	*8.490	*8.490
	4,5 m	kg	*5.940	4.340			*8.190	5.140	*9.440	7.240	*11.490	11.240
	3,0 m	kg	*6.140	3.990			8.290	4.940	*10.290	6.840	*13.490	10.240
	1,5 m	kg	6.540	3.890			8.040	4.740	*11.140	6.440		
	0,0 m	kg	6.990	3.940			7.890	4.640	11.390	6.190	*15.490	9.090
	-1,5 m	kg	7.590	4.290			7.890	4.590	10.890	6.090	*14.640	9.140
	-3,0 m	kg										



A – Reach from swing center

B – Bucket hook height

C – Lifting capacities

 – Rating over front

 – Rating over side

 – Rating at maximum reach

With 600 mm shoes

Weights:

With 2,0 and 2,65 m arm: bucket linkage and bucket cylinder: 390 kg

With 3,2 and 3,5 m arm: bucket linkage and bucket cylinder: 363 kg

\* 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.

Lifting capacity stated is based on lifting with bare arm. When lifting with additional equipment installed to the arm, please subtract the weight of all additional equipment from the values stated.

# Hydraulic Excavator

## PC290LC/NLC-10

### Standard and Optional Equipment

#### ENGINE

Komatsu SAA6D107E-2 turbocharged common rail direct injection diesel engine	●
EU Stage IIIB/EPA Tier 4 interim compliant	●
Suction type cooling fan with radiator fly screen	●
Automatic engine warm-up system	●
Engine overheat prevention system	●
Fuel control dial	●
Auto-deceleration function	●
Engine key stop	●
Engine ignition can be password secured on request	●
Alternator 24 V/60 A	●
Starter motor 24 V/5,5 kW	●
Batteries 2 × 12 V/155 Ah	●

#### HYDRAULIC SYSTEM

Electronic closed-centre load sensing (E-CLSS) hydraulic system (HydraMind)	●
Pump and engine mutual control (PEMC) system	●
One additional hydraulic circuit	●
6-working mode selection system; power mode, economy mode, breaker mode, attachment power and attachment economy mode, and lifting mode	●
PowerMax function	●
Adjustable PPC wrist control levers for arm, boom, bucket and swing, with sliding proportional control for attachments and 3 auxiliary buttons	●
Prepared for hydraulic quick-coupler	●
Additional hydraulic functions	○

#### UNDERCARRIAGE

Track roller guards	●
Track frame under-guards	●
600, 700, 800, 850 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, floor mat	●
Heated, high back air suspension seat with lumbar support, console mounted height adjustable arm rests, and retractable seat belt	●
Automatic climate control system	●
12/24 Volt power supplies	●
Beverage holder and magazine rack	●
Hot and cool box	●
Radio	●
Auxiliary input (MP3 jack)	●
Lower wiper	○
Rain visor (not with OPG)	○

#### SERVICE AND MAINTENANCE

Automatic fuel line de-aeration	●
Double element type air cleaner with dust indicator and auto dust evacuator	●
KOMTRAX™ - Komatsu satellite monitoring system	●
Multi-function video compatible colour monitor with Equipment Management and Monitoring System (EMMS) and efficiency guidance	●
Toolkit	●
Komatsu CARE	●
Service points	○
Automatic greasing system	○

#### WORK EQUIPMENT

Mono boom	○
Two-piece boom	○
2,0 m; 2,65 m; 3,2 m; 3,5 m arms	○
Bucket linkage with lifting eye	○
Komatsu buckets	○
Komatsu breakers	○

#### SAFETY EQUIPMENT

Rear view camera system	●
Electric horn	●
Overload warning device	●
Audible travel alarm	●
Boom safety valves	●
Large handrails, rear-view mirrors	●
Battery main switch	●
ROPS compliant to ISO12117-2:2008	●
Emergency engine stop switch	●
Arm safety valve	●
OPG Level II front guard (FOPS), hinged type	○
OPG Level II top guard (FOPS)	○
Additional camera, right side mounted	○

#### 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	●

#### LIGHTING SYSTEM

Working lights: 2 revolving frame, 1 boom (l.h.)	●
Additional working lights: 4 cab roof (front), 1 cab roof (rear), 1 boom (r.h.), 1 counterweight (rear), beacon	○

#### 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	○
Komatsu-Topcon guidance system preparation	○

Further equipment on request

- standard equipment
- optional equipment

# KOMATSU

**Komatsu Europe International NV**  
Mechelsesteenweg 586  
B-1800 VILVOORDE (BELGIUM)  
Tel. +32-2-255 24 11  
Fax +32-2-252 19 81  
[www.komatsu.eu](http://www.komatsu.eu)

Your Komatsu partner:

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