

# KOMATSU

## **PC290LC-11** **PC290NLC-11**

*EU Stage V Engine*

**HYDRAULIC EXCAVATOR**



PC290

**ENGINE POWER**

159 kW / 213 HP @ 2.050 rpm

**OPERATING WEIGHT**

PC290LC-11: 29.950 - 32.280 kg  
PC290NLC-11: 29.850 - 32.180 kg

**BUCKET CAPACITY**

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

# Walk-Around

PC290LG/NLG-11



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## EXCEPTIONAL WORKABILITY AND ENVIRONMENTAL PERFORMANCE

### ***Powerful and Environmentally Friendly***

- EU Stage V engine
- Adjustable idle shutdown
- Komatsu fuel-saving technology

### ***First-Class Comfort***

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

### ***Maximised Efficiency***

- Increased productivity
- Built-in versatility and superior productivity
- Enhanced engine management
- Improved hydraulic efficiency
- Komatsu Integrated Attachment Control (KIAC)

### ***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
- 3G mobile communications
- Integrated communication antenna
- Increased operational data and reports



A maintenance program  
for Komatsu customers

# Powerful and Environmentally Friendly



## Higher productivity

The PC290LC/NLC-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.

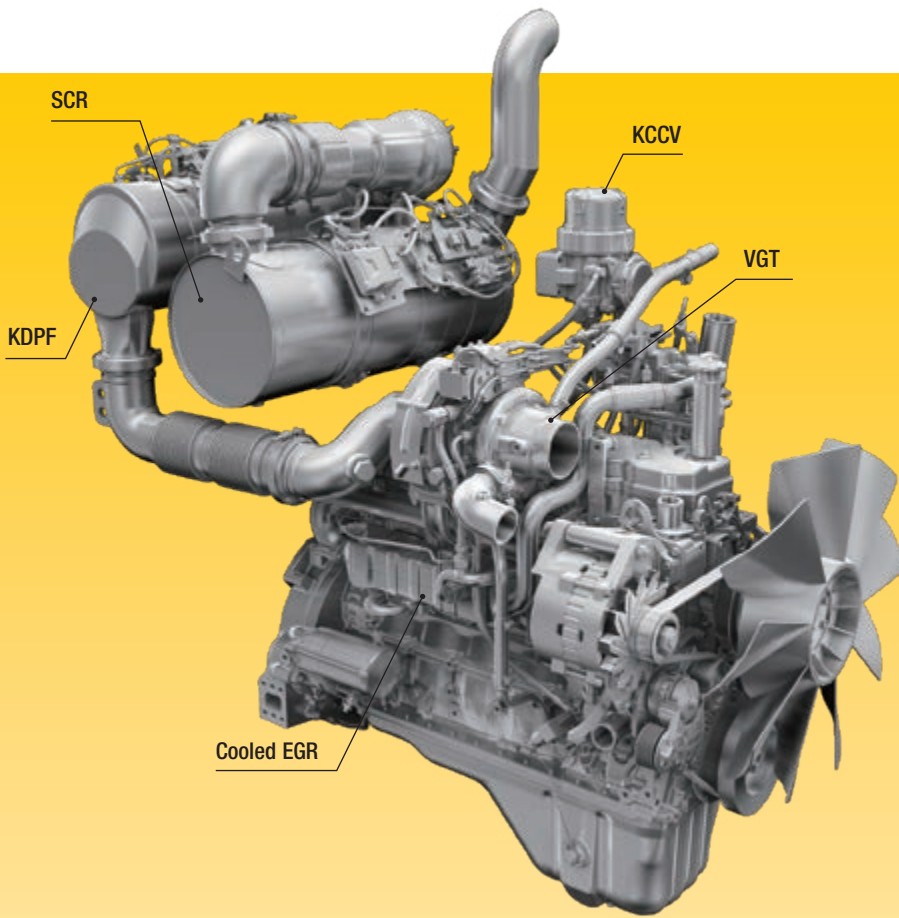
## Komatsu fuel-saving technology

Fuel consumption on the PC290LC/NLC-11 is lower by up to 5%. Engine management is enhanced. The variable speed matching of the engine and hydraulic pumps 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.

PC290LC/NLC-11



## 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<sub>2</sub>O) and non-toxic nitrogen gas (N<sub>2</sub>). NOx emissions are reduced by 80% vs. EU Stage IIIB engines.

### 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)

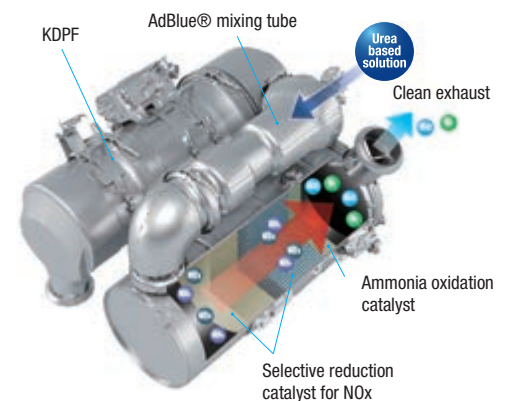
Crankcase emissions (blow-by gas) are passed through a CCV filter. The oil mist trapped in the filter is returned back to the crankcase while the filtered gas is returned to the air intake.

### 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.

### Variable Geometry Turbo (VGT)

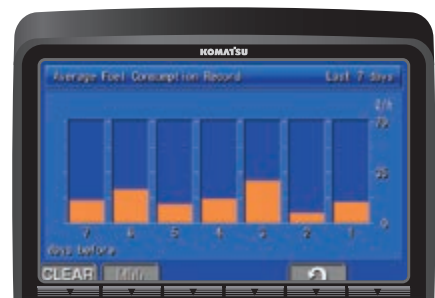
The VGT provides optimal airflow to the engine combustion chamber under all speed and load conditions. Exhaust gas is cleaner, fuel economy is improved while machine power and performance are maintained.



Eco-gauge, Eco guidance and fuel consumption gauge



ECO guidance record



Fuel consumption history

# Maximised Efficiency

## Built-in versatility

Powerful and precise, the Komatsu PC290LC/NLC-11 is equipped to efficiently carry out any task your business requires. On all jobsites, big or small, for digging, trenching, landscaping or site preparation, the Komatsu hydraulic system always provides maximum productivity and control.



Choice of four arm lengths  
Mono boom or two-piece boom

## A wide choice of options

Two optional attachment lines are available and 15 attachment memory settings are simply customised. Combined with a standard-fit hydraulic quick coupler power circuit, it's easier than ever to switch working styles. With a choice of arms and undercarriages, you can configure the PC290LC/NLC-11 to match specific demands for transport, working envelope or duty.



Two optional hydraulic lines to mount a variety of attachments

## 6 working modes

The PC290LC/NLC-11 delivers the power required with the lowest fuel usage. 6 working modes are available: Power, Lifting/Fine Operation, Breaker, Economy, Attachment Power and Attachment Economy. The operator can ideally balance the Economy mode between power and economy to match the work at hand. The oil flow delivered to hydraulic attachments is also adjustable directly on the class-leading widescreen monitor panel.



Komatsu Integrated Attachment Control (KIAC) for up to 15 tool presets for oil flow and pressure



Versatility at your fingertips: select the perfect setting for each job





# First-Class Comfort

## Increased comfort

In the wide Komatsu SpaceCab™, a standard air-suspended high-back seat, heated for improved comfort and with fully adjustable armrests, is the centre of a comfortable and low-fatigue working environment. High visibility and ergonomic controls further assist to maximise the operator's productivity.

## Perfect operator convenience

In addition to the standard radio, the PC290LC/NLC-11 has an auxiliary input for connecting external devices and play music through the cab speakers. Two 12-volt power ports are also incorporated in the cab. Proportional controls are fitted as standard for safe and precise operation of attachments.

## Low-noise design

Komatsu crawler excavators have very low external noise levels and are especially well-suited for work in confined spaces or urban areas. The optimal usage of sound insulation and of sound absorbing materials helps to make noise levels inside the cab comparable to those of an executive car.



Convenient, ergonomic and precise control: joysticks with proportional control button for attachments



Plenty of storage room, a hot and cool box, a magazine box and a cup holder



Armrest with simple height adjustment



# Information & Communication Technology



## 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

Conveniently customisable and with a choice of 26 languages, the wide-screen monitor with simple switches and multifunction keys gives fingertip access to a large range of functions and operating info. The rear camera view and an AdBlue® level gauge are now incorporated into the default main screen.

## An evolutionary interface

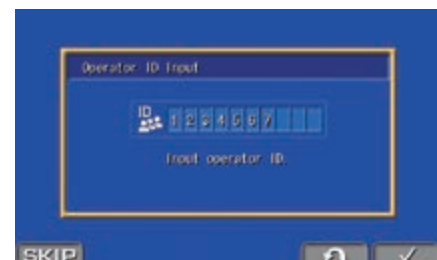
Helpful information is now easier than ever to find and understand with the upgraded monitor interface. An optimal main screen for the ongoing work can be selected simply by pressing the F3 key.

| Operation Records (10day)             |          |
|---------------------------------------|----------|
| Working Hours (Engine On)             | 0.2 h    |
| Average Fuel Consumption              | 23.0 l/h |
| Actual Working Hours                  | 0.1 h    |
| Avg Fuel Consumption (Actual Working) | 23.0 l/h |
| Fuel Consumption                      | 7.0 l    |
| Idling Hours                          | 0.1 h    |

Quick view on the operation logs



With KomVision, various camera view options are available whilst maintaining constant "birdview" from above the machine



Operator identification function

# Safety First

PC290LC/NLC-11



## Optimal jobsite safety

Safety features on the Komatsu PC290LC/NLC-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.



*KomVision cameras*



*Exceptional operator protection*



*Hand rails and anti-slip plates*

## 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.

## 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.

## 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 PC290LC/NLC-11 are designed and directly manufactured by Komatsu, and essential machine functions are perfectly matched for a highly reliable and productive excavator.

## 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.



*Durable and reliable undercarriage design for maximum protection*



*Cast boom foot and single piece boom plates*

# Easy Maintenance



## Central service points

Komatsu designed the PC290LC/NLC-11 with centralised and conveniently located service points to make necessary inspections and maintenance quick and easy.

## 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.



## Long-life oil filters

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

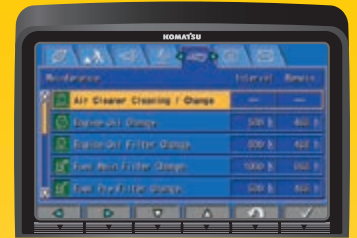


## AdBlue® tank

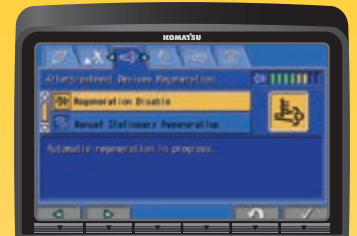
For simple access, the AdBlue® tank is installed on the front stairway.

## Flexible warranty

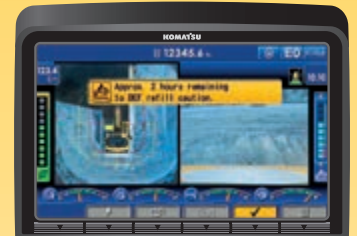
When you purchase Komatsu equipment, you gain access to a broad range of programmes and services that have been designed to help you get the most from your investment. For example, Komatsu's Flexible Warranty Programme provides a range of extended warranty options on the machine and its components. These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



Basic maintenance screen



Aftertreatment device regeneration screen for the KDPF



AdBlue® level and refill guidance



# 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.



## 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 3G depending on model) from the machine to a computer and to the local Komatsu distributor – who's readily available for expert analysis and feedback.

## 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.

## 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.



# Specifications

## ENGINE

|                             |                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Model                       | Komatsu SAA6D107E-3                                                                                                       |
| 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 × 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     | 2 × 239,5 l/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>                                                                       |

## SERVICE REFILL CAPACITIES

|                         |        |
|-------------------------|--------|
| Fuel tank               | 400 l  |
| Radiator                | 36,0 l |
| Engine oil              | 23,1 l |
| Swing drive             | 7,2 l  |
| Hydraulic tank          | 132 l  |
| Final drive (each side) | 8,0 l  |
| AdBlue® tank            | 23,1 l |

## OPERATING WEIGHT (APPR.)

|                      | MONO BOOM        |                         |                  |                         | TWO-PIECE BOOM   |                         |                  |                         |
|----------------------|------------------|-------------------------|------------------|-------------------------|------------------|-------------------------|------------------|-------------------------|
|                      | PC290LC-11       |                         | PC290NLC-11      |                         | PC290LC-11       |                         | PC290NLC-11      |                         |
|                      | Operating weight | Ground pressure         | Operating weight | Ground pressure         | Operating weight | Ground pressure         | Operating weight | Ground pressure         |
| Triple grouser shoes |                  |                         |                  |                         |                  |                         |                  |                         |
| 600 mm               | 29.950 kg        | 0,57 kg/cm <sup>2</sup> | 29.850 kg        | 0,57 kg/cm <sup>2</sup> | 31.280 kg        | 0,59 kg/cm <sup>2</sup> | 31.180 kg        | 0,59 kg/cm <sup>2</sup> |
| 700 mm               | 30.350 kg        | 0,49 kg/cm <sup>2</sup> | 30.250 kg        | 0,49 kg/cm <sup>2</sup> | 31.680 kg        | 0,51 kg/cm <sup>2</sup> | 31.580 kg        | 0,51 kg/cm <sup>2</sup> |
| 800 mm               | 30.750 kg        | 0,44 kg/cm <sup>2</sup> | 30.650 kg        | 0,44 kg/cm <sup>2</sup> | 32.080 kg        | 0,46 kg/cm <sup>2</sup> | 31.980 kg        | 0,45 kg/cm <sup>2</sup> |
| 850 mm               | 30.950 kg        | 0,41 kg/cm <sup>2</sup> | 30.850 kg        | 0,41 kg/cm <sup>2</sup> | 32.280 kg        | 0,43 kg/cm <sup>2</sup> | 32.180 kg        | 0,43 kg/cm <sup>2</sup> |

Operating weight, including specified work equipment, 3,2 m arm, 830 kg 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 multidisc brake integrated into swing motor |
| Swing speed  | 0 - 10,5 rpm                                                          |
| Swing torque | 87 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 | 25.400 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)           | 48                                                   |
| Tension                     | Combined spring and hydraulic unit                   |
| Rollers                     |                                                      |
| Track rollers (each side)   | 8                                                    |
| Carrier rollers (each side) | 2                                                    |

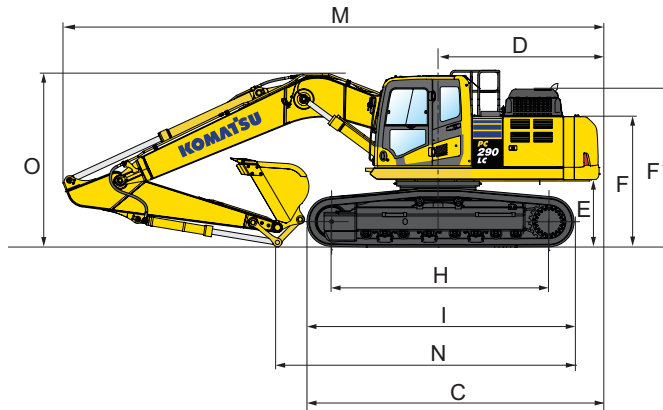
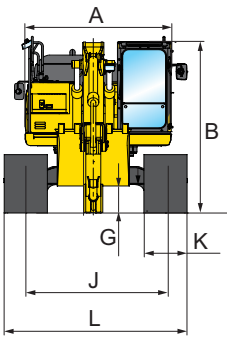
## ENVIRONMENT

|                                                                                                                       |                                                                 |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Engine emissions                                                                                                      | Fully complies with EU Stage V 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> ) |
| Contains fluorinated greenhouse gas HFC-134a (GWP 1430).<br>Quantity of gas 0,9 kg, CO <sub>2</sub> equivalent 1,29 t |                                                                 |

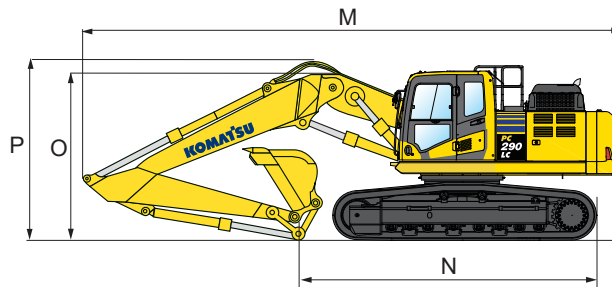
# Dimensions & Performance Figures

| MACHINE DIMENSIONS                           | PC290LC-11            | PC290NLC-11           |
|----------------------------------------------|-----------------------|-----------------------|
| A Overall width of upper structure           | 2.705 mm              | 2.705 mm              |
| B Overall height of cab                      | 3.180 mm              | 3.180 mm              |
| C Overall length of basic machine            | 5.460 mm              | 5.460 mm              |
| D Tail length                                | 2.985 mm              | 2.985 mm              |
| Tail swing radius                            | 3.020 mm              | 3.020 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) | 2.895 mm              | 2.895 mm              |
| G Ground clearance                           | 495 mm                | 495 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              |
| J Track gauge (transport)                    | 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                | 10.160 mm | 10.320 mm | 10.265 mm | 10.275 mm | 10.140 mm      | 10.110 mm | 10.050 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  |

# Dimensions & Performance Figures

## PC290LC-11 / MAX. BUCKET CAPACITY AND WEIGHT

| MONO BOOM                                  |                     |          |                     |          |                     |          |                     |          |
|--------------------------------------------|---------------------|----------|---------------------|----------|---------------------|----------|---------------------|----------|
| Arm length                                 | 2,0 m               |          | 2,65 m              |          | 3,2 m               |          | 3,5 m               |          |
| 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 |
| TWO-PIECE BOOM                             |                     |          |                     |          |                     |          |                     |          |
| Arm length                                 | 2,65 m              |          | 3,2 m               |          | 3,5 m               |          |                     |          |
| 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-11 / MAX. BUCKET CAPACITY AND WEIGHT

| MONO BOOM                                  |                     |          |                     |          |                     |          |                     |          |
|--------------------------------------------|---------------------|----------|---------------------|----------|---------------------|----------|---------------------|----------|
| Arm length                                 | 2,0 m               |          | 2,65 m              |          | 3,2 m               |          | 3,5 m               |          |
| 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> | 2,02 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 |
| TWO-PIECE BOOM                             |                     |          |                     |          |                     |          |                     |          |
| Arm length                                 | 2,65 m              |          | 3,2 m               |          | 3,5 m               |          |                     |          |
| 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

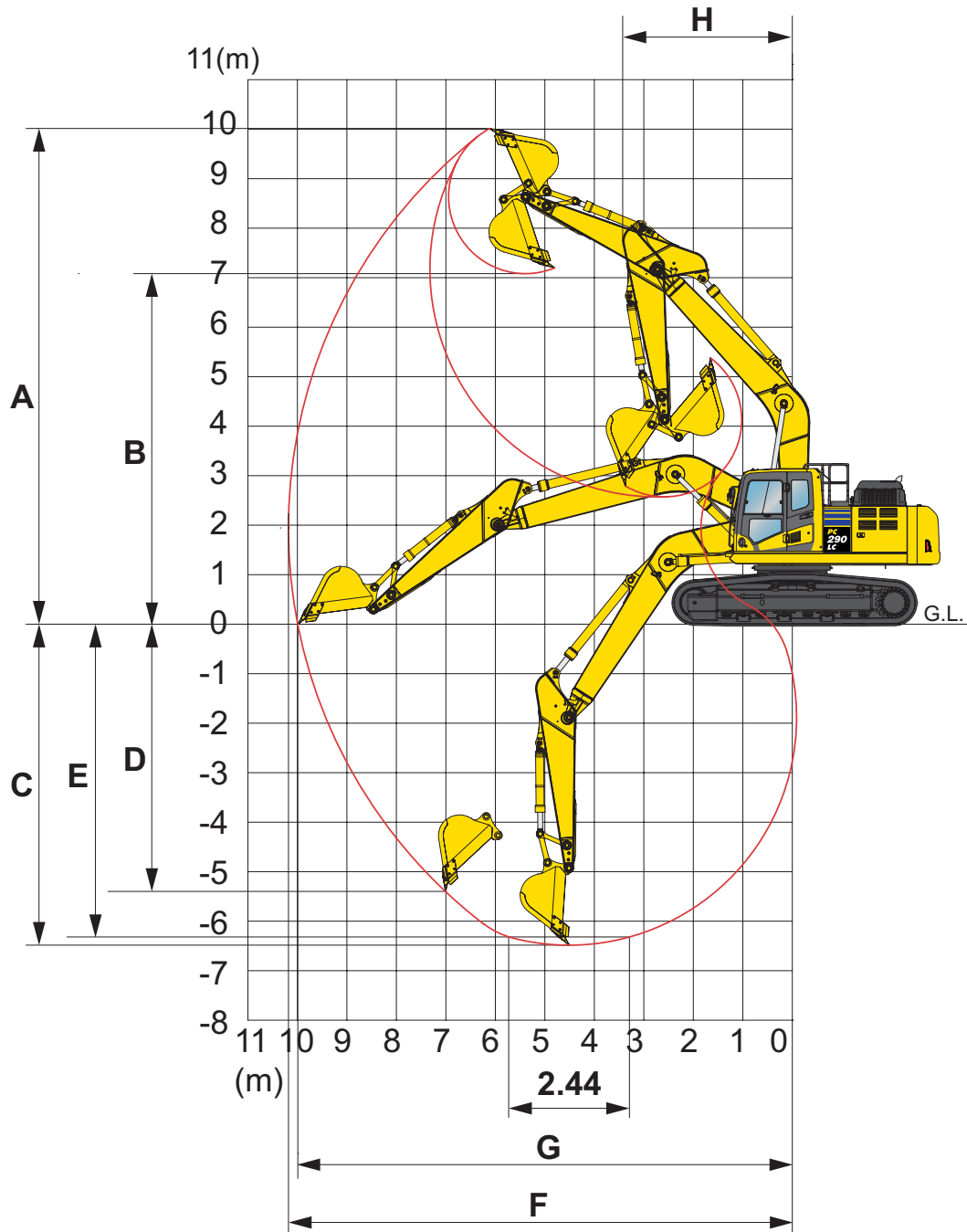
| Arm length                       | 2,0 m     | 2,65 m    | 3,2 m     | 3,5 m     |
|----------------------------------|-----------|-----------|-----------|-----------|
| Bucket digging force             | 21.600 kg | 21.600 kg | 18.800 kg | 18.800 kg |
| Bucket digging force at PowerMax | 23.100 kg | 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 |





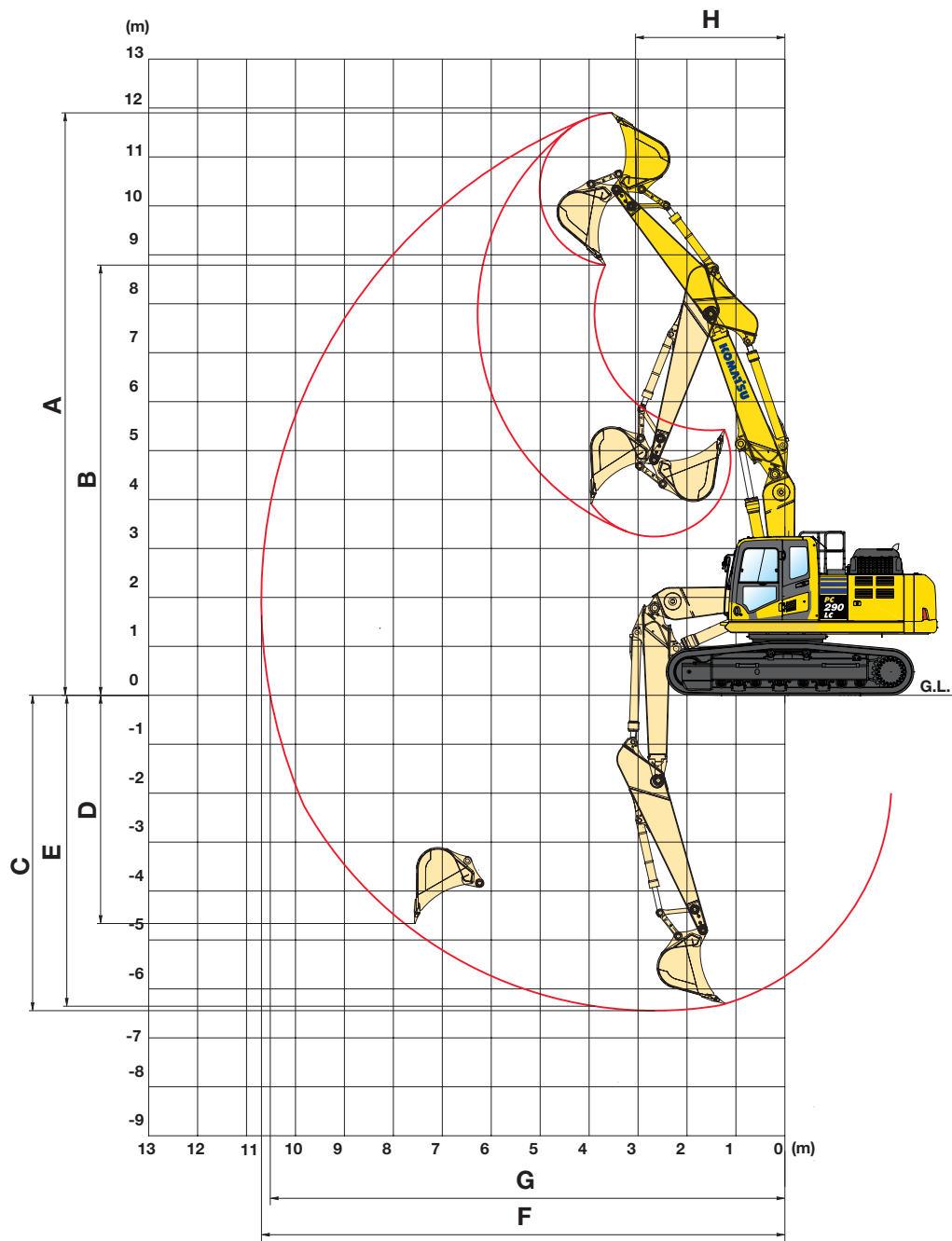
# Working Range

## 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  |

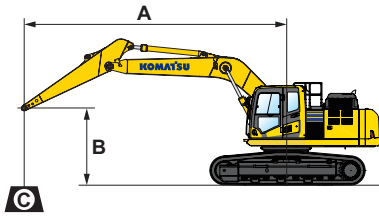
Two-piece boom



| 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-11 MONO BOOM



A – Reach from swing center

B – Bucket hook height

C – Lifting capacities

– Rating over front

– Rating over side

– Rating at maximum reach

Weights:

With 2,0 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

With 700 mm shoes

| Arm length | A |  |  |  | 7,5 m |  | 6,0 m |  | 4,5 m |  | 3,0 m |  | 1,5 m |  |
|------------|---|--|--|--|-------|--|-------|--|-------|--|-------|--|-------|--|
|            | B |  |  |  |       |  |       |  |       |  |       |  |       |  |

|        |        |        |        |        |        |         |         |        |         |         |         |         |         |         |
|--------|--------|--------|--------|--------|--------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
|        | 6,0 m  | kg     | *4.180 | *4.180 | *6.650 | 6.140   |         |        |         |         |         |         |         |         |
|        | 4,5 m  | kg     | *4.190 | *4.190 | *7.390 | 6.000   | *8.060  | *8.060 |         |         |         |         |         |         |
|        | 3,0 m  | kg     | *4.330 | 4.270  | *8.090 | 5.810   | *9.410  | 7.970  | *12.090 | *12.090 |         |         |         |         |
|        | 1,5 m  | kg     | *4.610 | 4.160  | 8.480  | 5.610   | *10.730 | 7.600  | *14.580 | 11.320  |         |         |         |         |
|        | 0,0 m  | kg     | *5.080 | 4.220  | 8.310  | 5.450   | 11.510  | 7.320  | *15.940 | 10.880  | *7.970  | *7.970  |         |         |
|        | -1,5 m | kg     | *5.880 | 4.480  | 8.210  | 5.360   | 11.350  | 7.180  | *16.180 | 10.720  | *12.210 | *12.210 | *8.090  | *8.090  |
|        | -3,0 m | kg     | *7.340 | 5.050  | 8.220  | 5.370   | 11.330  | 7.160  | *15.440 | 10.740  | *17.810 | *17.810 | *12.640 | *12.640 |
| -4,5 m | kg     | *8.710 | 6.340  |        |        | *10.170 | 7.300   |        |         |         |         |         |         |         |

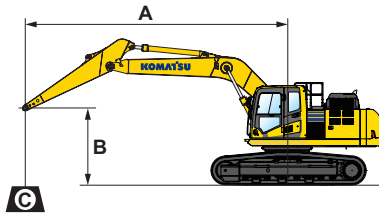
|        |        |        |        |        |        |        |         |        |         |        |         |         |  |  |
|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|--------|---------|---------|--|--|
|        | 6,0 m  | kg     | *4.550 | *4.550 | *6.830 | 6.080  | *7.430  | *7.430 |         |        |         |         |  |  |
|        | 4,5 m  | kg     | *4.550 | *4.550 | *7.660 | 5.960  | *8.420  | 8.280  | *9.920  | *9.920 |         |         |  |  |
|        | 3,0 m  | kg     | *4.700 | 4.420  | *8.310 | 5.780  | *9.740  | 7.910  | *12.680 | 11.950 |         |         |  |  |
|        | 1,5 m  | kg     | *5.000 | 4.310  | 8.460  | 5.590  | *10.990 | 7.560  | *15.010 | 11.230 |         |         |  |  |
|        | 0,0 m  | kg     | *5.530 | 4.380  | 8.300  | 5.450  | 11.500  | 7.310  | *16.130 | 10.860 |         |         |  |  |
|        | -1,5 m | kg     | *6.430 | 4.680  | 8.230  | 5.380  | 11.360  | 7.200  | *16.140 | 10.750 | *12.270 | *12.270 |  |  |
|        | -3,0 m | kg     | 8.130  | 5.340  | 8.270  | 5.420  | 11.370  | 7.210  | *15.180 | 10.810 | *18.780 | *18.780 |  |  |
| -4,5 m | kg     | *8.810 | 6.860  |        |        | *9.630 | 7.380   |        |         |        |         |         |  |  |

|        |        |    |        |       |        |       |         |        |         |         |         |         |  |  |
|--------|--------|----|--------|-------|--------|-------|---------|--------|---------|---------|---------|---------|--|--|
|        | 6,0 m  | kg | *6.710 | 5.970 | *6.760 | 5.970 | *8.130  | *8.130 |         |         |         |         |  |  |
|        | 4,5 m  | kg | *6.740 | 5.200 | *8.160 | 5.900 | *9.070  | 8.170  | *11.010 | *11.010 |         |         |  |  |
|        | 3,0 m  | kg | *7.020 | 4.820 | 8.610  | 5.740 | *10.310 | 7.820  | *13.720 | 11.700  |         |         |  |  |
|        | 1,5 m  | kg | 7.020  | 4.690 | 8.440  | 5.580 | *11.420 | 7.500  | *15.700 | 11.090  |         |         |  |  |
|        | 0,0 m  | kg | 7.210  | 4.790 | 8.310  | 5.460 | 11.480  | 7.300  | *16.310 | 10.840  |         |         |  |  |
|        | -1,5 m | kg | 7.840  | 5.170 | 8.280  | 5.430 | 11.400  | 7.230  | *15.900 | 10.810  | *12.990 | *12.990 |  |  |
|        | -3,0 m | kg | *9.240 | 6.060 |        |       | *11.110 | 7.290  | *14.550 | 10.920  | *19.420 | *19.420 |  |  |
| -4,5 m | kg     |    |        |       |        |       |         |        |         |         |         |         |  |  |

|        |        |    |        |       |       |       |         |       |         |         |         |         |  |  |
|--------|--------|----|--------|-------|-------|-------|---------|-------|---------|---------|---------|---------|--|--|
|        | 6,0 m  | kg | *7.550 | 6.720 |       |       | *8.980  | 8.330 | *10.070 | *10.070 |         |         |  |  |
|        | 4,5 m  | kg | *7.520 | 5.740 | 8.720 | 5.840 | *9.820  | 8.080 | *12.300 | 12.270  |         |         |  |  |
|        | 3,0 m  | kg | *7.810 | 5.290 | 8.590 | 5.730 | *10.960 | 7.770 | *14.990 | 11.470  |         |         |  |  |
|        | 1,5 m  | kg | 7.720  | 5.150 | 8.460 | 5.600 | 11.690  | 7.500 |         |         |         |         |  |  |
|        | 0,0 m  | kg | 7.990  | 5.300 | 8.380 | 5.530 | 11.530  | 7.360 | *16.290 | 10.930  |         |         |  |  |
|        | -1,5 m | kg | 8.850  | 5.820 |       |       | 11.510  | 7.350 | *15.430 | 10.980  | *12.500 | *12.500 |  |  |
|        | -3,0 m | kg | *9.650 | 7.070 |       |       | *10.320 | 7.480 |         |         |         |         |  |  |
| -4,5 m | 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-11 MONO BOOM



- A – Reach from swing center
- B – Bucket hook height
- C – Lifting capacities

- Rating over front
- Rating over side
- Rating at maximum reach

Weights:

With 2,0 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

With 600 mm shoes

| Arm length | A |  | 7,5 m |  | 6,0 m |  | 4,5 m |  | 3,0 m |  | 1,5 m |  |
|------------|---|--|-------|--|-------|--|-------|--|-------|--|-------|--|
|            | B |  |       |  |       |  |       |  |       |  |       |  |

|        |        |        |        |        |        |         |         |       |         |        |         |         |         |         |
|--------|--------|--------|--------|--------|--------|---------|---------|-------|---------|--------|---------|---------|---------|---------|
|        | 6,0 m  | kg     | *4.180 | *4.180 | *6.650 | 5.610   |         |       |         |        |         |         |         |         |
|        | 4,5 m  | kg     | *4.190 | 4.150  | *7.390 | 5.480   | *8.060  | 7.610 |         |        |         |         |         |         |
|        | 3,0 m  | kg     | *4.330 | 3.880  | *8.090 | 5.290   | *9.410  | 7.240 | *12.090 | 10.880 |         |         |         |         |
|        | 1,5 m  | kg     | *4.610 | 3.770  | 8.350  | 5.090   | *10.730 | 6.870 | *14.580 | 10.130 |         |         |         |         |
|        | 0,0 m  | kg     | *5.080 | 3.820  | 8.170  | 4.930   | 11.320  | 6.600 | *15.940 | 9.710  | *7.970  | *7.970  |         |         |
|        | -1,5 m | kg     | *5.880 | 4.050  | 8.070  | 4.850   | 11.160  | 6.460 | *16.180 | 9.550  | *12.210 | *12.210 | *8.090  | *8.090  |
|        | -3,0 m | kg     | *7.340 | 4.570  | 8.090  | 4.860   | 11.140  | 6.450 | *15.440 | 9.570  | *17.810 | *17.810 | *12.640 | *12.640 |
| -4,5 m | kg     | *8.710 | 5.730  |        |        | *10.170 | 6.570   |       |         |        |         |         |         |         |

|        |        |        |        |        |        |        |         |        |         |        |         |         |
|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|--------|---------|---------|
|        | 6,0 m  | kg     | *4.550 | *4.550 | *6.830 | 5.550  | *7.430  | *7.430 |         |        |         |         |
|        | 4,5 m  | kg     | *4.550 | 4.310  | *7.660 | 5.430  | *8.420  | 7.540  | *9.920  | *9.920 |         |         |
|        | 3,0 m  | kg     | *4.700 | 4.020  | *8.310 | 5.260  | *9.740  | 7.180  | *12.680 | 10.740 |         |         |
|        | 1,5 m  | kg     | *5.000 | 3.910  | 8.320  | 5.070  | *10.990 | 6.830  | *15.010 | 10.050 |         |         |
|        | 0,0 m  | kg     | *5.530 | 3.970  | 8.170  | 4.930  | 11.310  | 6.590  | *16.130 | 9.690  |         |         |
|        | -1,5 m | kg     | *6.430 | 4.230  | 8.090  | 4.870  | 11.180  | 6.480  | *16.140 | 9.580  | *12.270 | *12.270 |
|        | -3,0 m | kg     | 8.000  | 4.830  | 8.130  | 4.900  | 11.190  | 6.490  | *15.180 | 9.640  | *18.780 | 18.540  |
| -4,5 m | kg     | *8.810 | 6.200  |        |        | *9.630 | 6.650   |        |         |        |         |         |

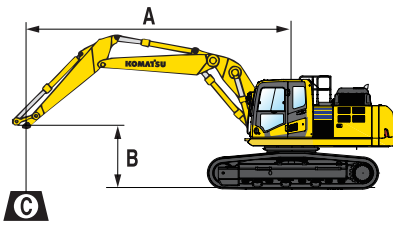
|        |        |    |        |       |        |       |         |       |         |         |         |         |
|--------|--------|----|--------|-------|--------|-------|---------|-------|---------|---------|---------|---------|
|        | 6,0 m  | kg | *6.710 | 5.440 | *6.760 | 5.450 | *8.130  | 7.700 |         |         |         |         |
|        | 4,5 m  | kg | *6.740 | 4.730 | *8.160 | 5.370 | *9.070  | 7.430 | *11.010 | *11.010 |         |         |
|        | 3,0 m  | kg | *7.020 | 4.380 | 8.480  | 5.220 | *10.310 | 7.090 | *13.720 | 10.500  |         |         |
|        | 1,5 m  | kg | 6.910  | 4.260 | 8.300  | 5.060 | *11.420 | 6.780 | *15.700 | 9.910   |         |         |
|        | 0,0 m  | kg | 7.090  | 4.340 | 8.180  | 4.950 | 11.290  | 6.580 | *16.310 | 9.670   |         |         |
|        | -1,5 m | kg | 7.710  | 4.680 | 8.140  | 4.920 | 11.210  | 6.520 | *15.900 | 9.640   | *12.990 | *12.990 |
|        | -3,0 m | kg | 9.150  | 5.490 |        |       | *11.110 | 6.570 | *14.550 | 9.750   | *19.420 | 18.810  |
| -4,5 m | kg     |    |        |       |        |       |         |       |         |         |         |         |

|        |        |    |        |       |       |       |         |       |         |         |         |         |
|--------|--------|----|--------|-------|-------|-------|---------|-------|---------|---------|---------|---------|
|        | 6,0 m  | kg | *7.550 | 6.130 |       |       | *8.980  | 7.590 | *10.070 | *10.070 |         |         |
|        | 4,5 m  | kg | *7.520 | 5.230 | 8.590 | 5.320 | *9.820  | 7.350 | *12.300 | 11.060  |         |         |
|        | 3,0 m  | kg | 7.770  | 4.810 | 8.460 | 5.210 | *10.960 | 7.040 | *14.990 | 10.280  |         |         |
|        | 1,5 m  | kg | 7.600  | 4.680 | 8.320 | 5.090 | 11.510  | 6.780 |         |         |         |         |
|        | 0,0 m  | kg | 7.860  | 4.810 | 8.240 | 5.010 | 11.340  | 6.640 | *16.290 | 9.760   |         |         |
|        | -1,5 m | kg | 8.700  | 5.270 |       |       | 11.330  | 6.630 | *15.430 | 9.810   | *12.500 | *12.500 |
|        | -3,0 m | kg | *9.650 | 6.400 |       |       | *10.320 | 6.750 |         |         |         |         |
| -4,5 m | 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.

# Lifting Capacity

## PC290LC-11 TWO-PIECE BOOM



A – Reach from swing center

B – Bucket hook height

C – Lifting capacities

– Rating over front

– Rating over side

– Rating at maximum reach

Weights:

With 2,0 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

With 600 mm shoes

| Arm length | A |  |  |  | 9,0 m |  | 7,5 m |  | 6,0 m |  | 4,5 m |  | 3,0 m |  |
|------------|---|--|--|--|-------|--|-------|--|-------|--|-------|--|-------|--|
|            | B |  |  |  |       |  |       |  |       |  |       |  |       |  |

|  |        |    |        |        |        |        |        |        |         |        |         |        |  |  |
|--|--------|----|--------|--------|--------|--------|--------|--------|---------|--------|---------|--------|--|--|
|  | 7,5 m  | kg | *4.350 | *4.350 |        |        | *4.650 | *4.650 | *7.000  | *7.000 |         |        |  |  |
|  | 6,0 m  | kg | *4.100 | *4.100 |        |        | *6.850 | 6.050  | *7.400  | *7.400 |         |        |  |  |
|  | 4,5 m  | kg | *4.000 | *4.000 | *3.300 | *4.300 | *7.950 | 5.950  | *8.750  | 8.300  | *9.000  | *9.000 |  |  |
|  | 3,0 m  | kg | *4.050 | *4.050 | *4.700 | 4.400  | *8.600 | 5.750  | *10.250 | 7.900  | *13.300 | 11.250 |  |  |
|  | 1,5 m  | kg | *4.250 | 4.100  | 5.000  | 4.300  | 8.400  | 5.550  | *11.200 | 7.550  | *14.500 | 11.150 |  |  |
|  | 0,0 m  | kg | *4.550 | 4.150  | *4.850 | 4.250  | 8.150  | 5.400  | 11.550  | 7.250  | *15.450 | 10.800 |  |  |
|  | -1,5 m | kg | *5.100 | 4.450  |        |        | 7.950  | 5.350  | 11.100  | 7.150  | *14.400 | 9.700  |  |  |
|  | -3,0 m | kg |        |        |        |        |        |        | *10.350 | 7.200  |         |        |  |  |

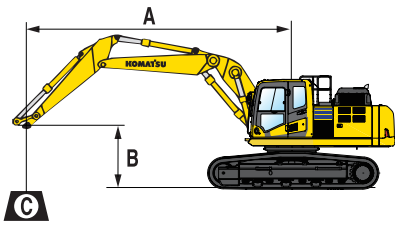
|  |        |    |        |        |        |       |        |       |         |        |         |         |  |  |
|--|--------|----|--------|--------|--------|-------|--------|-------|---------|--------|---------|---------|--|--|
|  | 7,5 m  | kg | *4.750 | *4.750 |        |       |        |       | *7.550  | *7.550 |         |         |  |  |
|  | 6,0 m  | kg | *4.450 | *4.450 |        |       | *7.100 | 6.000 | *8.100  | *8.100 | *7.650  | *7.650  |  |  |
|  | 4,5 m  | kg | *4.350 | *4.350 |        |       | *8.350 | 5.900 | *9.500  | 8.250  | *10.650 | *10.650 |  |  |
|  | 3,0 m  | kg | *4.400 | 4.300  | *3.850 | 4.350 | 8.600  | 5.700 | *10.550 | 7.850  | *13.750 | 11.100  |  |  |
|  | 1,5 m  | kg | *4.550 | 4.250  | *4.450 | 4.300 | 8.350  | 5.550 | *11.400 | 7.500  | *14.800 | 11.050  |  |  |
|  | 0,0 m  | kg | *4.950 | 4.350  |        |       | 8.150  | 5.400 | 11.500  | 7.250  | *15.550 | 10.800  |  |  |
|  | -1,5 m | kg | *5.550 | 4.650  |        |       | 7.950  | 5.350 | 11.100  | 7.150  | *13.700 | 9.750   |  |  |
|  | -3,0 m | kg |        |        |        |       |        |       |         |        |         |         |  |  |

|  |        |    |        |        |  |  |        |       |         |       |         |         |  |  |
|--|--------|----|--------|--------|--|--|--------|-------|---------|-------|---------|---------|--|--|
|  | 7,5 m  | kg | *7.150 | *7.150 |  |  |        |       | *9.250  | 8.450 | *9.800  | *9.150  |  |  |
|  | 6,0 m  | kg | *6.650 | 5.850  |  |  | *7.050 | 5.900 | *9.350  | 8.400 | *10.200 | *9.500  |  |  |
|  | 4,5 m  | kg | *6.500 | 5.100  |  |  | 8.800  | 5.850 | *10.050 | 8.150 | *12.450 | *11.600 |  |  |
|  | 3,0 m  | kg | *6.650 | 4.750  |  |  | 8.600  | 5.700 | *11.000 | 7.550 | *14.600 | 11.600  |  |  |
|  | 1,5 m  | kg | *6.950 | 4.650  |  |  | 8.500  | 5.550 | 11.700  | 7.450 |         |         |  |  |
|  | 0,0 m  | kg | 7.250  | 4.750  |  |  | 8.450  | 5.450 | 11.550  | 7.300 | *15.450 | 10.850  |  |  |
|  | -1,5 m | kg |        |        |  |  | 8.650  | 5.450 | *11.100 | 7.250 | *13.700 | 9.800   |  |  |
|  | -3,0 m | kg |        |        |  |  |        |       |         |       |         |         |  |  |

|  |        |    |        |        |  |  |        |       |         |       |         |         |  |  |
|--|--------|----|--------|--------|--|--|--------|-------|---------|-------|---------|---------|--|--|
|  | 7,5 m  | kg | *8.200 | *8.200 |  |  |        |       |         |       | *11.100 | *10.300 |  |  |
|  | 6,0 m  | kg | *7.450 | 6.650  |  |  |        |       | *10.050 | 8.250 | *11.750 | *10.950 |  |  |
|  | 4,5 m  | kg | *7.200 | 5.650  |  |  | *8.550 | 5.750 | *10.650 | 8.000 | *13.500 | 11.400  |  |  |
|  | 3,0 m  | kg | *7.300 | 5.250  |  |  | 8.600  | 5.650 | *11.500 | 7.700 |         |         |  |  |
|  | 1,5 m  | kg | *7.650 | 5.100  |  |  | 8.450  | 5.550 | 11.650  | 7.450 |         |         |  |  |
|  | 0,0 m  | kg | 8.050  | 5.300  |  |  | 8.400  | 5.500 | 11.600  | 7.350 | *15.050 | 10.900  |  |  |
|  | -1,5 m | kg |        |        |  |  |        |       | *10.600 | 7.350 |         |         |  |  |
|  | -3,0 m | 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-11 TWO-PIECE BOOM



- A – Reach from swing center
- B – Bucket hook height
- C – Lifting capacities

- Rating over front
- Rating over side
- Rating at maximum reach

Weights:

With 2,0 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

With 700 mm shoes

| Arm length | A      |    | 9,0 m  |        | 7,5 m  |        | 6,0 m  |         | 4,5 m   |         | 3,0 m   |        |  |
|------------|--------|----|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--|
|            | B      |    |        |        |        |        |        |         |         |         |         |        |  |
| <br>3,5 m  | 7,5 m  | kg | *4.350 | *4.350 |        | *4.650 | *4.650 | *7.000  | *7.000  |         |         |        |  |
|            | 6,0 m  | kg | *4.100 | *4.100 |        | *6.850 | 5.600  | *7.400  | *7.400  |         |         |        |  |
|            | 4,5 m  | kg | *4.000 | *4.000 | *3.300 | 4.100  | *7.950 | 5.500   | *8.750  | 7.650   | *9.000  | *9.000 |  |
|            | 3,0 m  | kg | *4.050 | 3.850  | *4.700 | 4.050  | *8.600 | 5.300   | *10.250 | 7.300   | *13.300 | 10.250 |  |
|            | 1,5 m  | kg | *4.250 | 3.750  | 5.000  | 3.950  | 8.400  | 5.100   | *11.200 | 6.900   | *14.500 | 10.100 |  |
|            | 0,0 m  | kg | *4.550 | 3.800  | *4.850 | 3.900  | 8.150  | 4.950   | 11.550  | 6.650   | *15.450 | 9.800  |  |
|            | -1,5 m | kg | *5.100 | 4.100  |        |        | 7.950  | 4.900   | 11.100  | 6.500   | *14.400 | 8.750  |  |
|            | -3,0 m | kg |        |        |        |        |        |         | *10.350 | 6.550   |         |        |  |
| <br>3,2 m  | 7,5 m  | kg | *4.750 | *4.750 |        |        |        | *7.550  | *7.550  |         |         |        |  |
|            | 6,0 m  | kg | *4.450 | *4.450 |        | *7.100 | 5.550  | *8.100  | 7.850   | *7.650  | *7.650  |        |  |
|            | 4,5 m  | kg | *4.350 | 4.250  |        | *8.350 | 5.450  | *9.500  | 7.600   | *10.650 | *10.650 |        |  |
|            | 3,0 m  | kg | *4.400 | 4.000  | *3.850 | 4.000  | 8.600  | 5.250   | *10.550 | 7.200   | *13.750 | 10.100 |  |
|            | 1,5 m  | kg | *4.550 | 3.900  | *4.450 | 3.950  | 8.350  | 5.100   | *11.400 | 6.850   | *14.800 | 10.050 |  |
|            | 0,0 m  | kg | *4.950 | 4.000  |        |        | 8.150  | 4.950   | 11.500  | 6.650   | *15.550 | 9.800  |  |
|            | -1,5 m | kg | *5.550 | 4.250  |        |        | 7.950  | 4.900   | 11.100  | 6.550   | *13.700 | 8.800  |  |
|            | -3,0 m | kg |        |        |        |        |        |         |         |         |         |        |  |
| <br>2,65 m | 7,5 m  | kg | *7.150 | 6.800  |        |        |        | *9.250  | 7.800   | *9.800  | *9.800  |        |  |
|            | 6,0 m  | kg | *6.650 | 5.400  |        | *7.050 | 5.450  | *9.350  | 7.750   | *10.200 | *9.500  |        |  |
|            | 4,5 m  | kg | *6.500 | 4.700  |        | 8.800  | 5.400  | *10.050 | 7.500   | *12.450 | 10.700  |        |  |
|            | 3,0 m  | kg | *6.650 | 4.350  |        | 8.600  | 5.200  | *11.000 | 7.150   | *14.600 | 10.500  |        |  |
|            | 1,5 m  | kg | *6.950 | 4.250  |        | 8.500  | 5.100  | 11.700  | 6.850   |         |         |        |  |
|            | 0,0 m  | kg | 7.250  | 4.400  |        | 8.450  | 5.000  | 11.550  | 6.650   | *15.450 | 9.800   |        |  |
|            | -1,5 m | kg |        |        |        | 8.650  | 5.000  | *11.100 | 6.650   | *13.700 | 8.900   |        |  |
|            | -3,0 m | kg |        |        |        |        |        |         |         |         |         |        |  |
| <br>2,0 m  | 7,5 m  | kg | *8.200 | 8.150  |        |        |        |         | *11.100 | *10.300 |         |        |  |
|            | 6,0 m  | kg | *7.450 | 6.100  |        |        |        | *10.050 | 7.600   | *11.750 | *10.950 |        |  |
|            | 4,5 m  | kg | *7.200 | 5.200  |        | *8.550 | 5.300  | *10.650 | 7.350   | *13.500 | 10.400  |        |  |
|            | 3,0 m  | kg | *7.300 | 4.800  |        | 8.600  | 5.200  | *11.500 | 7.050   |         |         |        |  |
|            | 1,5 m  | kg | *7.650 | 4.700  |        | 8.450  | 5.100  | 11.650  | 6.800   |         |         |        |  |
|            | 0,0 m  | kg | 8.050  | 4.850  |        | 8.400  | 5.050  | 11.600  | 6.700   | *15.050 | 9.900   |        |  |
|            | -1,5 m | kg |        |        |        |        |        | *10.600 | 6.750   |         |         |        |  |
|            | -3,0 m | 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.

# 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                                                   | ● |

## 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 3 auxiliary buttons                    | ● |
| Prepared for hydraulic quick-coupler                                                                                                                   | ● |
| Additional hydraulic functions                                                                                                                         | ○ |
| Komatsu Integrated Attachment Control (KIAC)                                                                                                           | ○ |

## 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                                                                                 | ● |

## 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-suspended 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 (AM/FM)                                                                                                                                                                                                                                                                                                                                                | ● |
| Auxiliary input (MP3 jack)                                                                                                                                                                                                                                                                                                                                   | ● |
| Lower wiper                                                                                                                                                                                                                                                                                                                                                  | ○ |
| Rain visor (not with OPG)                                                                                                                                                                                                                                                                                                                                    | ○ |
| DAB+ digital radio w. auxiliary input (MP3 jack)                                                                                                                                                                                                                                                                                                             | ○ |

## 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 (3G)                                                                            | ● |
| 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                        | ○ |
| Two-piece boom                   | ○ |
| Bucket linkage with lifting eye  | ○ |
| 2,0 m; 2,65 m; 3,2 m; 3,5 m arms | ○ |
| Komatsu buckets                  | ○ |
| Komatsu breakers                 | ○ |

## SAFETY EQUIPMENT

|                                              |   |
|----------------------------------------------|---|
| KomVision surround view system               | ● |
| Electric horn                                | ● |
| Overload warning device                      | ● |
| Audible travel alarm                         | ● |
| Boom safety valves                           | ● |
| Large handrails, rear-view mirrors           | ● |
| 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 top guard (FOPS)                | ○ |

## LED LIGHTING SYSTEM

|                                                                                                                                                                  |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Working lights: 2 revolving frame, 1 boom (l.h.)                                                                                                                 | ● |
| 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 | ○ |

## 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

Your Komatsu partner:

# KOMATSU

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