KOMATSU

PC300-10M0 CE



Photos may include optional equipment

Hydraulic excavator

CE

Engine power
149 kW / 200 HP @ 2050 rpm

Operating weight
29600 kg

Bucket capacity
1.5 m^3

CE

The PC300-10M0 CE in civil engineering specification is the perfectly cost-efficient and highly versatile solution for all your general construction or small-scale mining needs.



Engine power
149 kW / 200 HP @ 2050 rpm

Operating weight
29600 kg

Bucket capacity
1.5 m^3

Low initial costs combined with

high performance and low cost of ownership



Low emission engine

- EPA Tier 3 / EU Stage IIIA compliant engine
- Economy mode improves fuel consumption
- Eco-gauge for energy-saving operations
- Extended idle caution for fuel conservation

Easy maintenance

- Long replacement intervals of engine oil, engine oil filter and hydraulic filter
- Remote-mounted engine oil filter and fuel drain valve for easy access
- Equipped with a fuel pre-filter as standard (with water separator)
- Side-by-side cooling concept enables individual cooling modules to be serviced

High durability & power

- Long-lasting, rugged design
- Large drawbar pull
- Auto one-touch power up

Safety & comfort

- Large comfortable ROPS cab (ISO 12117-2)
- Low noise and vibration levels
- Pressurised cab with air conditioner
- Suspension seat with retractable seat belt
- Anti-slip plates for safe work on machine
- Large side-view, sidewise, and rear-view mirrors
- Rear-view monitor system (optional)

ICT* & Komtrax

- 7" multi-lingual, easy-to-use multi-function colour monitor
- Equipment Management Monitoring System
- Komtrax – Komatsu wireless monitoring system

* Information and Communication Technology

Powerful and fuel-efficient

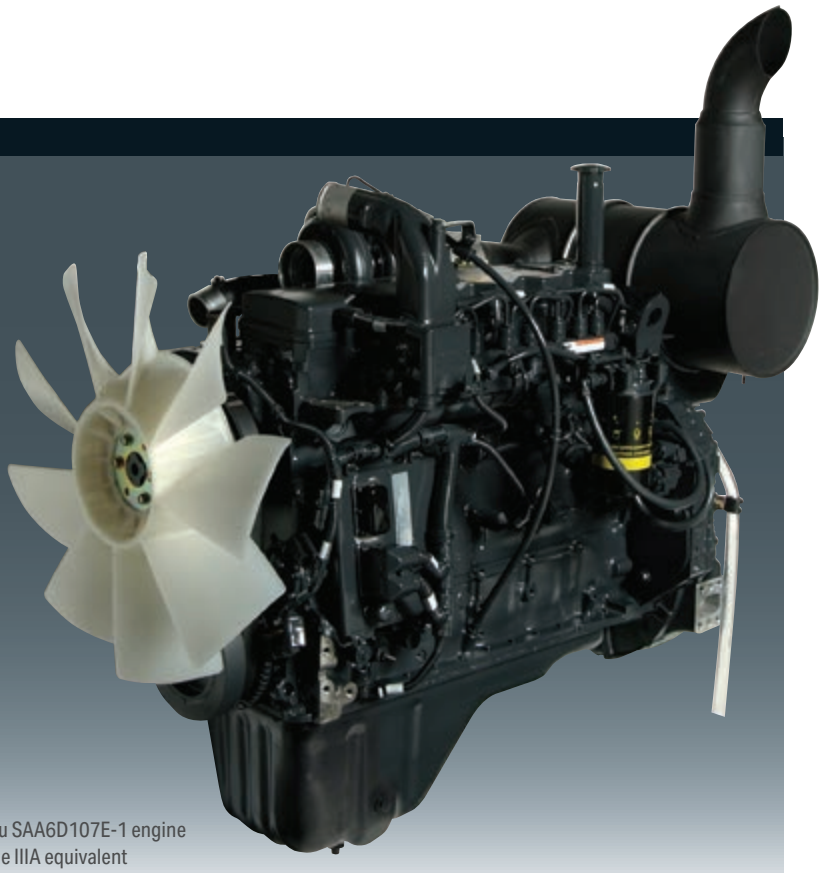
Komatsu engine technologies

Low fuel consumption

The Komatsu SAA6D107E-1 engine reduces NOx emissions through precise multi-stage fuel injection and improves durability with a high-pressure injection system designed for construction machinery. Efficient engine-hydraulic matching, E mode, and the Eco-gauge also help reduce fuel consumption and support energy-efficient operation.

Engine power

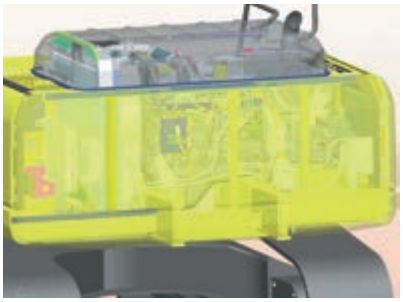
149 kW



Komatsu SAA6D107E-1 engine
EU Stage IIIA equivalent

Reliable and efficient

Productivity is the key to success – all major components of the PC300-10M0 CE are designed and directly manufactured by Komatsu. Essential machine functions are perfectly matched for a highly reliable and productive machine.





ECO gauge

High maximum drawbar pull

The PC300-10M0 CE delivers high maximum drawbar pull for excellent performance when climbing slopes. It is engineered to handle tough terrain and heavy-duty workloads with consistent reliability.

Low operating noise

An electronically controlled common-rail engine, multi-stage fuel injection and a highly rigid cylinder block help reduce noise at source. A large-capacity radiator also allows the fan to operate at a lower speed, further reducing noise.

Eco-gauge

An Eco-gauge is clearly visible on the right side of the multi-function colour monitor to support environmentally friendly, energy-efficient operation. It helps the operator stay within the green range, reducing emissions and fuel consumption.



Auto one-touch power up

When bucket digging and PPC pressures exceed preset levels, the system automatically activates One-Touch Power Up for enhanced digging performance.

Idle caution

To help reduce unnecessary fuel consumption, an idle caution message is displayed on the monitor if the engine has been idling for 5 minutes or more.



Power and Economy modes

Power mode (P mode) combines low fuel consumption with fast equipment speed, high productivity and maximum power. Economy mode (E mode) further reduces fuel consumption while maintaining P-mode-like equipment speed for light-duty work. Both modes can be selected with one-touch operation on the monitor panel to suit the workload.

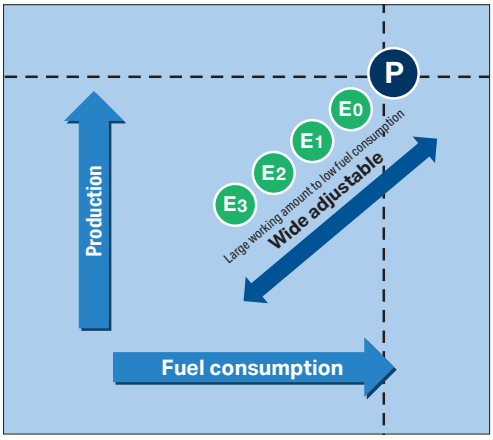
P (Power mode):
Maximum production
Fast cycle time

E (Economy mode):
Lower fuel consumption



Adjustable Economy mode

E mode can be adjusted from E0 to E3 to suit different operating requirements. The higher the setting from E0 to E3, the lower the fuel consumption. Simply select the appropriate work mode to achieve efficient performance for each application.



The following work modes can also be selected to suit the task at hand.

Working Mode	Application	Advantages
L	Lifting mode	• Suitable attachment speed • Lifting capacity is increased 7% by raising hydraulic pressure
B	Breaker mode	• Optimum engine rpm, hydraulic flow
ATT	Attachment mode	• Optimum engine rpm, hydraulic flow, 2-way

Lower maintenance costs



Convenient access to filters
The engine oil and fuel system filters are located together on one side for easier maintenance and servicing, while the fuel drain valve is remotely mounted for improved accessibility. An eco-drain valve helps protect technicians and the ground from oil contamination during engine oil replacement.



Easy-to-clean cooling unit
Easy access to the cooling unit simplifies cleaning, particularly in demanding, dusty work environments. The openable engine hood side cover provides convenient ground-level access to the cooling unit, helping to reduce the time and effort required for cleaning.

Designed for easy access
Komatsu designed the PC300-10M0 CE with centralised and conveniently located service points to make necessary inspections and maintenance quick and easy. Durable anti-slip plates provide secure footing for safe access to the engine hood.





Easier cleaning of track frame
The sloped design minimises dirt and sand build-up and facilitates easy cleaning.

Long-life oil and filters
The use of high-performance filter materials and long-life oil allows longer replacement intervals, helping to reduce routine maintenance requirements.



Service intervals:

Engine oil & filter	**500 h**
Hydraulic oil	**5000 h**
Hydraulic oil filter	**1000 h**

Air conditioner filters
can be removed and installed without tools, facilitating filter maintenance.



Internal air conditioner filter



External air conditioner filter

Large-capacity fuel tank and rustproof treatment
A 400-litre fuel tank supports longer operation, with rustproof treatment for lasting corrosion protection.



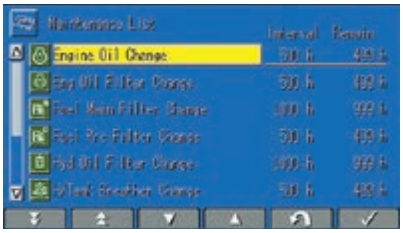
Pre-cleaner for dusty environments
A high-efficiency pre-cleaner works with the large air cleaner to reduce cleaning frequency in dusty environments. The new design also offers improved durability.



Battery disconnect switch
The battery disconnect switch safely isolates the electrical system for maintenance and helps reduce battery discharge during long periods of inactivity. A system operating lamp shows when it is safe to disconnect the switch, protecting the controllers.

Fuel pre-filter (with water separator)
Removes water and contaminants from the fuel to help prevent fuel system issues. Includes a built-in priming pump.





Easy maintenance scheduling
The monitor displays an alert when the oil or filters are due for replacement.



Long-lasting, rugged design
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 total support
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.

ICT & Komtrax

Multi-function, widescreen colour 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). Multilingual and with all essential information available at a glance, it features simple and easy to operate switches and multifunction keys that provide the operator with fingertip access to a wide range of functions and operating information.



This report image is an example of hydraulic excavator



Indicators

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

Basic operation switches

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

Equipment Management Monitoring System

Monitor function

The controller monitors engine oil level, coolant temperature, battery charge, air cleaner clogging, etc. If the controller detects any abnormality, it is displayed on the LCD.



Maintenance function

The monitor indicates when oil and filters need to be replaced once the replacement interval is reached.



Trouble data memory function

The monitor stores abnormality records for effective troubleshooting.

KOMTRAX

The Komatsu remote monitoring and management technology provides valuable information about your equipment and fleet in a user-friendly format.

Energy-saving operation report

Komtrax provides an energy-saving operation report based on key operating data, including fuel consumption, load summary and idling time, helping you improve operational efficiency.



Equipment management support

The web application offers a range of search parameters to help you quickly find information on specific machines. Komtrax also identifies machines requiring attention and presents them clearly within the interface.



Location

Working status

Periodic maintenance

The report contents and data depend on the machine model.

Optimal strategy for efficient work

The detailed information that Komtrax puts at your fingertips helps you manage your fleet conveniently on the web anytime, anywhere. It gives you the power to make better daily and long-term strategic decisions.





Safety features

Safety comes first on the jobsite

The PC300-10M0 CE comes standard with a ROPS cab conforming to ISO 12117-2 for excavators. The cab offers excellent impact strength, durability and shock absorption. It also meets OPG top guard level 1 (ISO 10262) requirements for falling objects. Together with the retractable seat belt, the ROPS cab helps protect the operator in the event of a rollover or falling objects.





Gas-assisted engine hood damper cylinders

The engine hood can be easily opened and closed with the help of the gas-assisted engine hood damper cylinders.



Improved all-round visibility

A larger left-side mirror and additional rear and side mirrors improve visibility around the machine.



LED lighting system

Long-lasting, high-output LED lights come standard and provide excellent illumination of the work area.



Thermal and fan guards

Thermal and fan guards help protect against contact with hot components and the rotating fan during engine inspections.



Rear-view monitor system (optional)

The rear-view camera displays a clear view of the area behind the machine on the colour monitor.



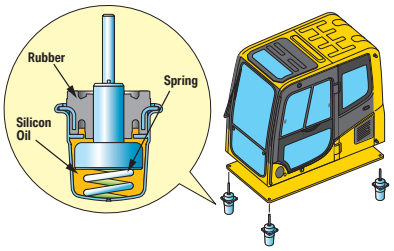
Lock lever

The lock lever locks the hydraulic system to prevent unintentional movement. The neutral start function allows the machine to be started only when the lock lever is in the locked position.

First-class comfort



Wide spacious cab
The spacious cab provides a comfortable, low-fatigue working environment. Excellent visibility and ergonomic controls help maximise operator productivity. A 12 V power socket allows convenient device charging, while a hot/cool box, luggage storage and magazine rack help keep the cab organised.



Cab damper mounting
The built-in stability of the Komatsu PC300-10M0 CE, combined with a highly rigid deck and a sprung multi-layer viscous mount system, drastically reduces vibration levels for the operator.

Suspension seat

A weight-adjustable suspension seat is fitted as standard, helping to reduce operator fatigue during long working periods. Seat height, angle, armrest and console positions can all be easily adjusted for a comfortable operating posture. The seat can also recline fully to a flat position with the headrest attached.

Low internal noise level
The low-noise engine, 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 the cab comparable to those of a passenger car.



Radio

Automatic A/C


Easily and precisely adjust the cab climate using the large LCD. Bi-level control keeps the operator's head cool and feet warm, while improved airflow maintains a comfortable cab environment throughout the year. The defroster keeps the front windscreen clear.

Pressurised cab
Air conditioner, air filter and a higher internal air pressure (+6.0 mm Aq) prevent external dust from entering the cab.



Large, openable roof hatch
The large, openable roof hatch with window provides an excellent upward view.

Specifications

ENGINE

Model ..... Komatsu SAA6D107E-1
Type ..... Water-cooled, 4-cycle, direct injection
Aspiration ..... Turbocharged, aftercooled
Number of cylinders 6
Bore ..... 107 mm
Stroke ..... 124 mm
Piston displacement ..... 6.69 l
Horsepower:
SAE J1995 ..... Gross 149 kW / 200 HP
ISO 9249 / SAE J1349 ..... Net 140 kW / 187 HP
Rated rpm ..... 2050 min^{-1}
Fan drive method for radiator cooling ..... Mechanical
Governor ..... All-speed control, electronic

U.S. EPA Tier 3 and EU Stage IIIA emissions certified.

HYDRAULICS

Type .. HydrauMind (Hydraulic Mechanical Intelligence New Design) system, closed-center system with load sensing valves and pressure compensated valves
Number of selectable working modes 5
Main pump:
Type ..... Variable displacement piston type
Pumps for ..... Boom, arm, bucket, swing, and travel circuits
Maximum flow ..... 450 L/min
Supply for control circuit ..... Self-reducing valve
Hydraulic motors:
Travel ..... 2 x axial piston motor with parking brake
Swing ..... 1 x axial piston motor with swing holding brake
Relief valve setting:
Implement circuits ..... 37.3 MPa / 380 kgf/cm^2
Travel circuit ..... 37.3 MPa / 380 kgf/cm^2
Swing circuit ..... 28.9 MPa / 295 kgf/cm^2
Pilot circuit ..... 3.2 MPa / 33 kgf/cm^2
Hydraulic cylinders:
(Number of cylinders – bore x stroke x rod diameter)
Boom ..... 2 – 140 mm x 1300 mm x 100 mm
Arm ..... 1 – 150 mm x 1635 mm x 110 mm
Bucket ..... 1 – 140 mm x 1009 mm x 100 mm

DRIVES AND BRAKES

Steering control ..... Two levers with pedals
Drive method ..... Hydrostatic
Maximum drawbar pull ..... 249 kN / 25400 kgf
..... *(264 kN / 26900 kgf)
Gradeability ..... 70%, 35°
Maximum travel speed: High ..... 5.5 km/h *(4.5 km/h)
(Auto-Shift) Mid ..... 4.1 km/h *(3.3 km/h)
Low ..... 3.0 km/h *(2.8 km/h)
Service brake ..... Hydraulic lock
Parking brake ..... Mechanical disc brake
*With optional heavy duty travel motor

SWING SYSTEM

Drive method ..... Hydrostatic
Swing reduction ..... Planetary gear
Swing circle lubrication ..... Grease-bathed
Service brake ..... Hydraulic lock
Holding brake/Swing lock ..... Mechanical disc brake
Swing speed ..... 10.5 min^{-1}

UNDERCARRIAGE

Center frame ..... X-frame
Track frame ..... Box-section
Seal of track ..... Sealed track
Track adjuster ..... Hydraulic
Number of shoes (Each side)
PC300-10M0 45
Number of carrier rollers ..... 2 each side
Number of track rollers (Each side)
PC300-10M0 7

COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank ..... 400 l
Coolant ..... 20.6 l
Engine ..... 23.1 l
Final drive (Each side) ..... 8.5 l
Swing drive ..... 8.2 l
Hydraulic tank ..... 132 l

OPERATING WEIGHT (APPROXIMATE)

Operating weight including 6150 mm one-piece boom, 3200 mm arm, heaped 1.5 m^3 backhoe bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

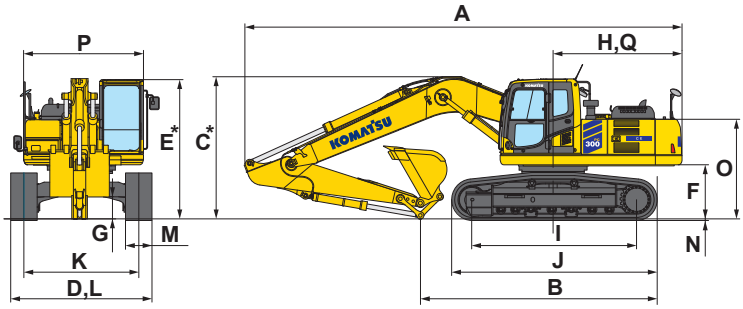
Shoes	PC300-10M0	
	Operating Weight	Ground Pressure
600 mm	29600 kg	60 kPa 0.61 kgf/cm^2

DIMENSIONS

Arm Length		3200 mm
A	Overall length	10185 mm
B	Length on ground (transport)	5625 mm
C	Overall height (to top of boom)*	3340 mm

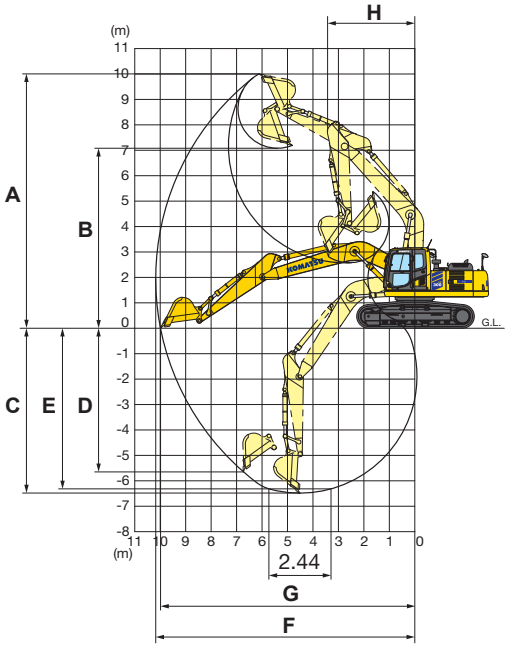
		PC300-10M0
D	Overall width	3190 mm
E	Overall height (to top of cab)*	3175 mm
F	Ground clearance, counterweight	1215 mm
G	Ground clearance (minimum)	498 mm
H	Tail swing radius	2940 mm
I	Track length on ground	3700 mm
J	Track length	4625 mm
K	Track gauge	2590 mm
L	Width of crawler	3190 mm
M	Shoe width	600 mm
N	Grouser height	30 mm
O	Machine cab height	2225 mm
P	Machine cab width	2710 mm
Q	Distance, swing centre to rear end	2905 mm

*: Including grouser height



WORKING RANGE

Arm		3200 mm
A	Max. digging height	10315 mm
B	Max. dumping height	7365 mm
C	Max. digging depth	6920 mm
D	Max. vertical wall digging depth	5100 mm
E	Max. digging depth of cut for 2440 mm level	6760 mm
F	Max. digging reach	10645 mm
G	Max. digging reach at ground level	10465 mm
H	Min. swing radius	3680 mm
ISO 6015 rating	Bucket digging force	198 kN 20200 kgf
	Arm crowd force	138 kN 14100 kgf



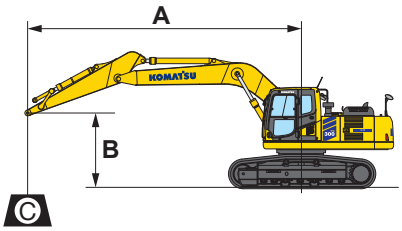
BACKHOE BUCKET AND ARM COMBINATION

Bucket Capacity (Heaped)	Width		Weight	Number of Teeth	Arm Length
	Without Side Cutters	With Side Cutters	With Side Cutters		3200 mm
1.5 m³	1240 mm	1340 mm	1525 kg	5	○

○: General purpose use, density up to 1.8 t/m³

Lifting capacity

Lifting capacity with lifting mode



A: Reach from swing centre
B: Arm top pin height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
⊗: Rating at maximum reach
Conditions:
6150 mm one-piece boom

PC300-10M0 CE Arm: 3200 mm Without bucket Shoe: 600 mm triple grouser

A / B	MAX		⊗MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m	7.16 m	*4550 kg	*4550 kg										
6.0 m	8.11 m	*4350 kg	*4350 kg			*6700 kg	5500 kg	*7000 kg	*7000 kg				
4.5 m	8.71 m	*4350 kg	4150 kg			*7200 kg	5350 kg	*7950 kg	7600 kg	*9450 kg	*9450 kg		
3.0 m	9.02 m	*4500 kg	3850 kg	*4650 kg	3850 kg	7350 kg	5150 kg	*9250 kg	7200 kg	*12150 kg	11050 kg		
1.5 m	9.07 m	*4800 kg	3750 kg	*5400 kg	3800 kg	7150 kg	4950 kg	9950 kg	6800 kg	*14450 kg	10250 kg		
0 m	8.87 m	*5300 kg	3800 kg			6950 kg	4800 kg	9650 kg	6550 kg	15250 kg	9900 kg		
−1.5 m	8.39 m	5900 kg	4100 kg			6900 kg	4750 kg	9550 kg	6450 kg	15150 kg	9750 kg	*12300 kg	*12300 kg
−3.0 m	7.60 m	6850 kg	4700 kg			6950 kg	4800 kg	9550 kg	6450 kg	*14600 kg	9850 kg	*18950 kg	*18950 kg
−4.5 m	6.36 m	*8300 kg	6150 kg					*9100 kg	6650 kg	*12400 kg	10100 kg	*16900 kg	*16900 kg

PC300-10M0 CE Arm: 3200 mm Without bucket Shoe: 700 mm triple grouser

A / B	MAX		⊗MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m	7.16 m	*4550 kg	*4550 kg										
6.0 m	8.11 m	*4350 kg	*4350 kg			*6700 kg	5600 kg	*7000 kg	*7000 kg				
4.5 m	8.71 m	*4350 kg	4250 kg			*7200 kg	5450 kg	*7950 kg	7750 kg	*9450 kg	*9450 kg		
3.0 m	9.02 m	*4500 kg	3950 kg	*4650 kg	3950 kg	7500 kg	5250 kg	*9250 kg	7350 kg	*12150 kg	11250 kg		
1.5 m	9.07 m	*4800 kg	3800 kg	*5400 kg	3850 kg	7300 kg	5050 kg	10150 kg	6950 kg	*14450 kg	10450 kg		
0 m	8.87 m	*5300 kg	3900 kg			7100 kg	4900 kg	9850 kg	6700 kg	*15550 kg	10050 kg		
−1.5 m	8.39 m	6050 kg	4150 kg			7050 kg	4850 kg	9750 kg	6550 kg	15450 kg	9950 kg	*12300 kg	*12300 kg
−3.0 m	7.60 m	6950 kg	4800 kg			7100 kg	4900 kg	9750 kg	6600 kg	*14600 kg	10000 kg	*18950 kg	*18950 kg
−4.5 m	6.36 m	*8300 kg	6300 kg					*9100 kg	6750 kg	*12400 kg	10250 kg	*16900 kg	*16900 kg

PC300-10M0 CE Arm: 3200 mm Without bucket Shoe: 800 mm triple grouser

A / B	MAX		⊗MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m	7.16 m	*4550 kg	*4550 kg										
6.0 m	8.11 m	*4350 kg	*4350 kg			*6700 kg	5650 kg	*7000 kg	*7000 kg				
4.5 m	8.71 m	*4350 kg	4300 kg			*7200 kg	5500 kg	*7950 kg	7800 kg	*9450 kg	*9450 kg		
3.0 m	9.02 m	*4500 kg	4000 kg	*4650 kg	4000 kg	7600 kg	5300 kg	*9250 kg	7400 kg	*12150 kg	11350 kg		
1.5 m	9.07 m	*4800 kg	3850 kg	*5400 kg	3900 kg	7350 kg	5100 kg	10300 kg	7000 kg	*14450 kg	10600 kg		
0 m	8.87 m	*5300 kg	3950 kg			7200 kg	4950 kg	10000 kg	6750 kg	*15550 kg	10200 kg		
−1.5 m	8.39 m	6100 kg	4200 kg			7150 kg	4900 kg	9850 kg	6650 kg	*15550 kg	10050 kg	*12300 kg	*12300 kg
−3.0 m	7.60 m	7050 kg	4850 kg			7200 kg	4950 kg	9900 kg	6650 kg	*14600 kg	10150 kg	*18950 kg	*18950 kg
−4.5 m	6.36 m	*8300 kg	6350 kg					*9100 kg	6850 kg	*12400 kg	10400 kg	*16900 kg	*16900 kg

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

STANDARD EQUIPMENT

Engine
- Engine, Komatsu SAA6D107E-1
- Automatic engine warm-up system
- Auto-decelerator
- Idle caution
- Engine overheat prevention system
- Compliant Bio diesel fuel
- Additional pre-filter
- Coolant filter
- Dry type air cleaner, double element
- Air pre-cleaner
- Radiator and oil cooler dustproof net
- Fan guard structure

Electrical system
- Alternator, 24 V/60 A
- Starting motor, 24 V/5.5 kW
- Batteries, standard capacity, maintenance-free
- Battery disconnect switch with operation lamp

Lighting system
- LED working lights
- Amber beacon lamp on cab roof

Hydraulic system
- One service valve
- In-line filter
- Working mode selection system
- Pressure Proportional Control (PPC) hydraulic control system
- Boom holding valve

Undercarriage
- Track frame under-guards
- Hydraulic track adjusters (each side)
- Shoe, 600 mm triple grouser

Operator environment
- ROPS cab (ISO 12117-2)
- Automatic A/C with defroster
- Rear-view mirrors, r.h., l.h., rear, sidewise
- Multi-function, widescreen colour monitor
- Equipment Management Monitoring System
- Suspension seat
- Seat belt, retractable
- 12 V power supply
- Radio

Work equipment
- 3200 mm HD arm assembly
- Boom, 6150 mm with attachment piping

Other equipment
- Counterweight
- Electric horn
- Komtrax (only for approved areas)
- Rear reflector
- Slip-resistant plates
- Travel alarm

OPTIONAL EQUIPMENT

Electrical system
- Batteries, large capacity

Hydraulic system
- Arm holding valve

Undercarriage
- 700 mm triple grouser track shoes
- 800 mm triple grouser track shoes
- Track roller guards (full length)

Operator environment
- Bolt-on top guard, OPG ISO 10262 level 2 (FOG)
- Cab front guard
  - — Full height guard
  - — Half height guard
- Rear-view monitor system

Lighting system
Rear working light

Work equipment
- Arms
  - — 2500 mm HD arm assembly
  - — 3045 mm HD arm assembly
- Boom, 5850 mm
- Boom, 5850 mm with attachment piping

Standard/option equipment may change. For more details, please consult your distributor.

· Trademarks and trade names are those of their respective owners.
· Up to 20% blended biodiesel fuel and paraffinic fuel can be used. Please consult your Komatsu distributor for details.

Your Komatsu partner:

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