



PC300-8M2

Hydraulic excavator



Photos may include optional equipment.

Engine power

Gross: 194 kW / 260 hp@1,950 rpm
Net: 187 kW / 250 hp@1,950 rpm

Operating weight

PC300-8M2: 31,100 - 32,010 kg

Bucket capacity

1.95 m³

PC300-8M2



Include optional equipment.

Maximizing efficiency

Productivity, ecology and economy

- Large digging force.
- Two-mode setting for boom.
- Fuel saving support functions.

Comfort

- Multifunction audio (Optional)(coming soon). **New**
- Sun roller blind. **New**
- USB port for charging (coming soon). **New**

Safety

- Complied with ROPS / OPG level 1.
- Rear view monitor system (Optional).
- LED lamps. **New**

Information and Communication Technology (ICT) and Komtrax

- Large multi-lingual high resolution Liquid Crystal Display (LCD) monitor.
- Equipment management monitoring system.
- Komtrax

Maintenance

- Easy access to filters.
- Pre-cleaner for dusty condition.
- Battery disconnect switch.
- Blow-by pressure detection. **New**
- Clogging sensor for hydraulic oil. **New**

Reliability

- High rigidity work equipment.
- Grease sealed track.
- Track link with strut.

Engine power

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Productivity, ecology and economy



Fuel saving support functions

• Just select a working mode that suits your purpose

In P mode, LARGE PRODUCTION is implemented. In E mode, LOW FUEL CONSUMPTION is implemented. E mode can be adjusted widely from E0 to E3 mode, and it adapts flexibly to customer's demands. Komatsu tuned each work mode precisely, ensuring high operability and workability. Just by selecting the work mode, it provides the best performance in demanding applications.

• P (Power mode)

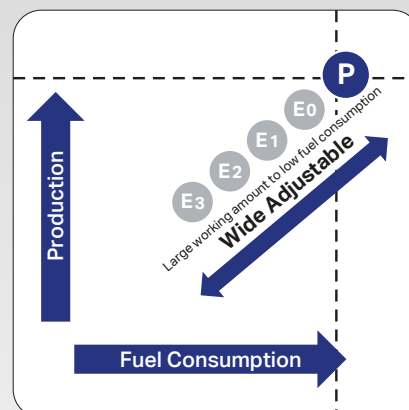
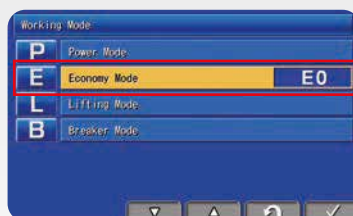
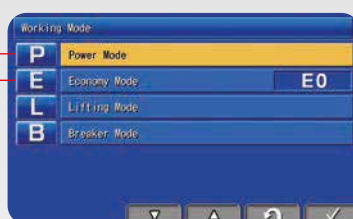
Maximum production.
Fast cycle time.

• E (Economy mode)

Better fuel consumption.

• Easy selectable E mode New

Compared with the conventional model, E0 to E3 can be easily selected on the monitor.



In addition to the above modes there are also the following modes. Please select the appropriate mode according to the application.

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/P	Attachment Power mode.	- Optimum engine rpm, hydraulic flow, 2 way. - Power mode.
ATT/E	Attachment Economy mode.	- Optimum engine rpm, hydraulic flow, 2 way. - Economy mode.

Komatsu technology

Komatsu develops and produces all major components, such as engines, electronics and hydraulic components, in house. With this "Komatsu Technology" and adding customer feedback, Komatsu is achieving great advancements in technology. To achieve both high levels of productivity and economical performance, Komatsu has developed the main components with a total control system. The result is a new generation of high performance and environment-friendly excavators.

Large digging force

When press the left knob switch which is called the one-touch power max. switch and when it is kept pressed, this function temporarily increases digging force for 8.5 seconds of operation.

Maximum arm crowd force (ISO 6015)

171 kN [17.4 t]

Maximum bucket digging force (ISO 6015)

228 kN [23.1 t]

Measured with Power Max. function, 3185 mm arm and ISO 6015 rating.

ECO gauge that assists energy-saving operations

Equipped with the ECO gauge that can be recognized at a glance on the right of the multi-function color monitor for environment friendly energy-saving operations. Allows focus on operation in the green range with reduced CO₂ emissions and efficient fuel consumption.

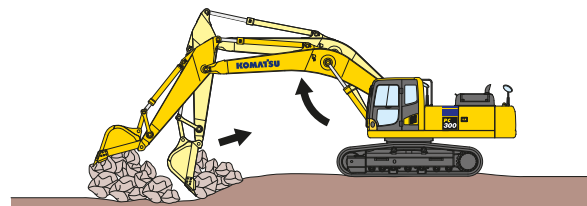


ECO gauge

Two-mode setting for boom

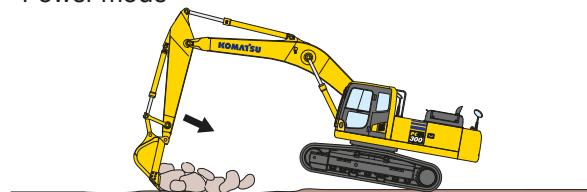
Smooth mode provides easy operation for gathering blasted rock or scraping down operation. When maximum digging force is needed, switch to Power mode for more effective excavating.

Smooth mode



Boom floats upward, reducing lifting of machine front. This facilitates gathering blasted rock and scraping down operations.

Power mode



Boom pushing force is increased, ditch digging and box digging operation on hard ground are improved.

Idling caution

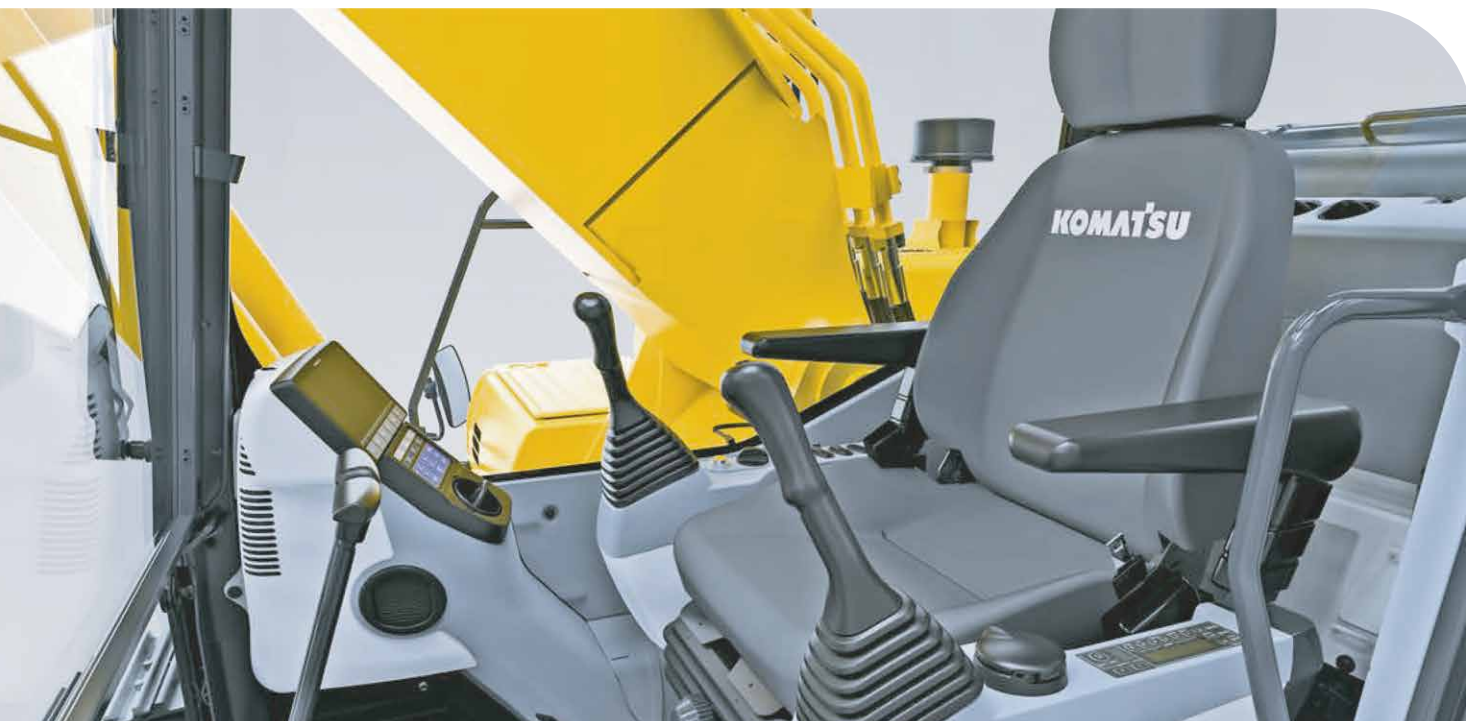
To prevent unnecessary fuel consumption, an idling caution is displayed on the monitor, if the engine idles for 5 minutes or more.



Low operation noise

Enables a low noise operation using the low-noise engine and methods to cut noise at source.

Comfort



Suspension seat

Suspension seat with weight adjustment function as standard equipment. This seat can reduce fatigue even in operation for a long time.

Pressurized cab

Pressurizing inside the cab to minimize the dust entering from out side. It can keep cab clean.

Low cab noise

With overwhelming low noise, you can operate without stress. Ambient noise is also reduced, reducing the stress of surrounding workers.

Multifunction audio (Optional) (coming soon) New

It has functions of AM/FM radio and Bluetooth® wireless technology enabled products can be connected.



Automatic A/C

It adjusts automatically to a comfortable temperature throughout the year, even in hot and cold areas.

Low vibration with cab damper mounting

The cab damper mounting combined with high rigidity deck aids vibration reduction at operator seat.

Sun roller blind New

Prepared a roller blind which blocks strong sunlight. Reduce sunlight at any time of day.



USB port for charging (coming soon) New



12 V power supply.
Magazine box.
Luggage box.

Safety

Complied with ROPS/OPG level 1

The machine is equipped with a ROPS cab that conforms to ISO 12117-2 for excavators as standard equipment. The ROPS cab has high shock-absorption performance, featuring excellent durability and impact strength. It also satisfies the requirements of OPG top guard level 1 (ISO 10262) for falling objects. Combined with the retractable seat belt, The ROPS cab protects the operator in case of tipping over and against falling objects.



Thermal guard, fan guard

Preventing direct contact to high temperature parts or the finger being caught by fan when checking around the engine, by installing thermal guards and fan guard.



Rear view monitor system (Optional)

A rear view monitor system display has a rear view camera image that is continuously displayed together with the gauges and important vehicle information. This enables the operator to carry out work while easily checking the surrounding area.

Even if it is on another screen, it changes to the rear camera image at the same time as the any operation lever is operated.



Cab guard:

Front full height guard level 1 (ISO 10262) (Optional).

OPG top guard level 2 (ISO 10262) (Optional).

Lock lever.

Pump/Engine room partition.

Large side-view, rear and sidewise mirrors.

Large handrail.

Slip-resistant plates.

LED lamps. New



ICT and Komtrax



Large multi-lingual high resolution LCD monitor

A large user-friendly high resolution LCD color monitor enables safe, accurate and smooth work. Simple and easy to operate switches. Function keys facilitate multi-function operations. Displays data in 15 languages to globally support operators around the world.

Indicators

- | | |
|------------------------------------|---------------------------|
| 1 Auto-decelerator. | 6 Fuel gauge. |
| 2 Working mode. | 7 ECO gauge. |
| 3 Travel speed. | 8 Fuel consumption gauge. |
| 4 Engine water temperature gauge. | 9 Function switches menu. |
| 5 Hydraulic oil temperature gauge. | 10 Language select. |

Basic operation switches

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

Supports efficient operation

The main screen displays advices for promoting energy-saving operations as needed. The operator can use the ECO guidance menu to check the operation records, ECO guidance records, average fuel consumption logs, etc.



ECO guidance



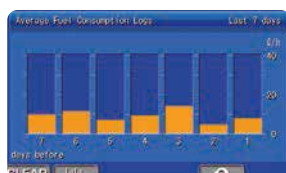
ECO guidance menu



ECO guidance records



Operation records



Average fuel consumption logs

Simplified selection of languages and new languages added. New

It supports 15 languages including newly added languages. Language selection has become extremely easy.



Equipment management monitoring system

• Monitor function

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

• Maintenance function

The monitor informs replacement time of oil and filters on the LCD when the replacement interval is reached.

• Trouble data memory function

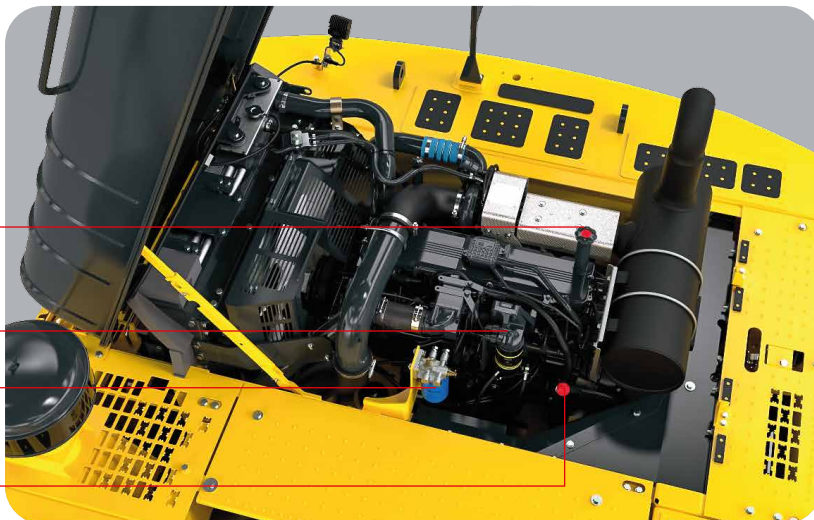
Monitor stores abnormalities for effective troubleshooting.

Maintenance

Easy access to filters

The engine oil and fuel filters are conveniently located for ready access when opening the door or hood.

Oil filler
Fuel main filter
Water filter
Oil level gauge



Pilot filter (Attachment piping specification)

Engine oil filter



Reserve tank

Fuel pre-filter

Long-life oil, Filter

Uses high-performance filtering materials and long-life oil. Extends the oil and filter replacement interval.

Engine oil & engine oil filter	every 500 hours
Hydraulic oil filter	every 1,000 hours
Hydraulic oil	every 5,000 hours

Easy maintenance time management

The monitor informs replacement time of oil and filters on the LCD when the replacement interval is reached.

Blow-by pressure detection New

Failure detection of engine by monitoring blow-by gas pressure. Detect the blow by pressure to grasp the operating condition of the engine and prevent malfunction beforehand. Komatsu prepared a sensor that can remotely and continuously monitor the blow-by pressure, which is the main criterion for engine overhaul, by Komtrax. It also increases the resale value of the machine.

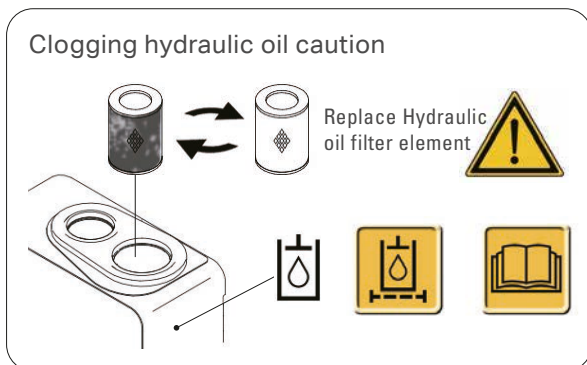
Easy to know maintenance time when using breaker

In addition to the above functions, it monitors the breaker usage time. Since the replacement time will be changed depending on the breaker usage time, monitor can notify the optimum replacement time.



Detect abnormality of hydraulic circuit clogging sensor for hydraulic oil as standard New

When the hydraulic oil filter is clogged, the caution message pops up on the monitor to notify replacing the filter. It is possible to suppress repair cost due to breakdown.



Clogging sensor for breaker line (Optional)

High-capacity air cleaner

High capacity air cleaner is comparable to that of larger machines. The larger air cleaner can extend air cleaner life during long-term operation and prevents early clogging and resulting power decrease. Reliability is improved by a new seal design.



Pre-cleaner for dusty condition

Even in dusty places, by installing pre-cleaner coupled with the large air cleaner, the frequency of cleaning the air cleaner will be reduced.



Battery disconnect switch

A battery disconnect switch allows a technician to disconnect the power supply and lock out before servicing or maintenance the machine. Also, minimize discharge of the battery during long-term non operation. System operating lamp tells the timing of disconnect the switch to prevent controller failures.



Other features

- Fuel line contamination prevention.
- Fuel drain valve.
- Engine oil drain valve.
- Easy to check level of hydraulic oil.

Reliability

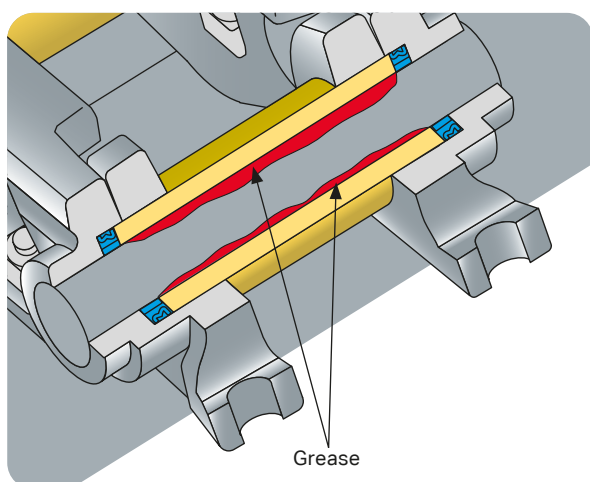
High rigidity work equipment

Boom and arms are constructed of thick plates of high tensile strength steel. In addition, these structures are designed with large cross-sectional areas and generous use of castings. The result is working attachments that exhibit long term durability and high resistance to bending and torsional stress.



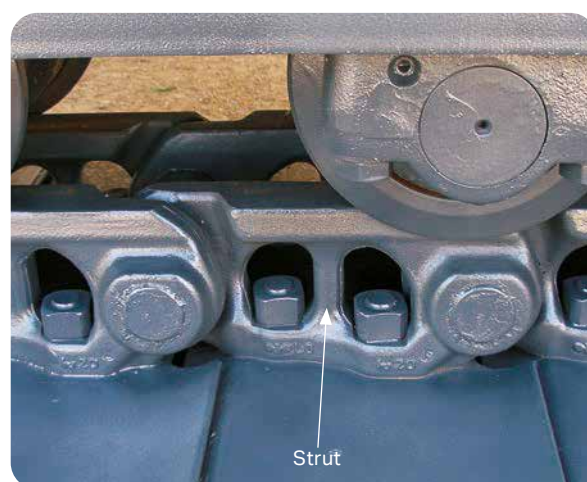
Grease sealed track

PC300-8M2 uses grease sealed tracks for extended undercarriage life.



Track link with strut

PC300-8M2 uses track links with strut, providing superb durability.



Sturdy frame structure

The revolving frame, center frame and undercarriage are designed by using the most advanced three-dimensional CAD and Finite Element Method (FEM) analysis technology.

Reliable components

All of the major machine components, such as engine, hydraulic pumps, hydraulic motors and control valves are exclusively designed and manufactured by Komatsu.

Highly reliable electronic devices

Exclusively designed electronic devices have passed severe testing.

- Controller.
- Sensors.
- Connectors.
- Heat resistant wiring.



Special specification

Attachment piping specification

Equips PC300-8M2 for breaker and crusher installation. Hydraulic flow rate can be regulated by setting Breaker Mode on monitor panel during breaker operation.



Komatsu brand bucket

Komatsu brand bucket for general purpose with wide bucket width

Me bucket

- Low resistant excavation.
- High productivity.
- High durability.
- High fuel efficiency.



Conventional



Me bucket

Category and Feature

Category	Load / Wear / Soil (Application)	Image
Light duty LD	Load Machine power remains low during the majority of the work. No impact load. Wear Material is not abrasive. Soil Dirt, loam and clay.	
General purpose GP	Load Machine power is mostly medium, but occasionally high. Bucket movements are smooth with minor shock load. Bucket penetrates easily. Wear Material is lightly abrasive. Some sand may be medium abrasive. Soil Mostly loose sand, gravel and finely broken materials.	
Heavy duty HD	Load Machine power is high during majority of the work. Medium, but continuous shock load. Wear Material is abrasive. Light scratch marks can be seen at the bucket. Soil Limestone, shot rock, compact mix of sand, gravel and clay.	
Extra heavy duty XHD	Load Machine power is high during most of the work, often at maximum. Dynamic shock loads are frequent and machine may shake. Wear Material is very abrasive. Large scratch marks are visible and, or deform metal. Works within heaps of rock with occasional un-shot rock and rock boulders. Soil Granite, basalt, quartz sand, compact and sticky clay.	

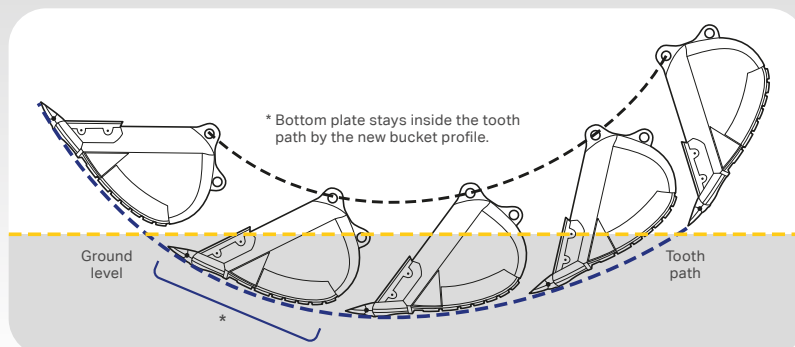
PC300-8M2						STD undercarriage								
Boom length m						6.47			6.47			6.47		
Arm length m						2.22			2.55			3.19		
Shoe width mm						600	700	800	600	700	800	600	700	800
	Width*1 (mm)	Capacity m³ (ISO 7451)	Weight*2 kg	Tooth quantity	Fill %									
HP	914	1.18	1,318	4	100	○	○	○	○	○	○	○	○	○
	1,219	1.7	1,610	5	100	○	○	○	○	○	○	□	□	□
	1,372	1.96	1,933	6	100	□	□	○	□	□	□	●	●	●
	1,524	2.22	1,880	6	100	□	□	□	●	●	●	X	X	X
HPS	914	1.18	1,401	4	100	○	○	○	○	○	○	○	○	○
	1,219	1.70	1,740	5	100	○	○	○	○	○	○	●	●	●
	1,372	1.96	1,907	6	100	□	○	○	□	□	□	●	●	●
	1,524	2.22	2,049	6	100	●	□	□	●	●	●	X	X	X
HPX	914	1.18	1,504	4	100	○	○	○	○	○	○	○	○	○
	1,219	1.70	1,875	5	100	○	○	○	○	○	○	●	□	□
	1,372	1.96	2,030	6	100	□	□	□	●	□	□	●	●	●
	1,524	2.22	2,169	6	100	●	●	●	●	●	●	X	X	X
XP	914	1.18	1,235	4	100	○	○	○	○	○	○	○	○	○
	1,219	1.70	1,469	5	100	○	○	○	○	○	○	□	○	○
	1,372	1.96	1,600	6	100	○	○	○	□	□	□	●	●	□
	1,524	2.22	1,715	6	100	□	□	□	●	□	□	●	●	●
XPS	914	1.18	1,345	4	100	○	○	○	○	○	○	○	○	○
	1,219	1.70	1,618	5	100	○	○	○	○	○	○	□	□	□
	1,372	1.96	1,769	6	100	○	○	○	□	□	□	●	●	●
	1,524	2.22	1,904	6	100	□	□	□	□	□	□	●	X	X
XPSX	914	1.18	1,435	4	100	○	○	○	○	○	○	○	○	○
	1,219	1.70	1,708	5	100	○	○	○	○	○	○	□	□	□
	1,372	1.96	1,987	6	100	□	□	□	□	□	□	●	●	●
	1,524	2.22	1,994	6	100	□	□	□	●	●	●	X	X	X
Maximum load (payload + bucket) kg						4,980	5,065	5,120	4,600	4,680	4,730	4,125	4,200	4,245

*1 With side cutters or side shrouds, < > without side cutters or side shrouds.
*2 With side cutters.

Feature of [Me bucket] (More suitable shape and effectiveness bucket)

•High productivity by low-resistant excavation

The new Ideal bucket profile produces lower resistance at inside & outside bucket and production will be greatly increased.



Feature of [PAB tooth] (Pin and bushing system tooth)

- Able to fit on the bucket with horizontal pin type adapter.
- Easy change-out only with a ratchet wrench.
- Longer tooth life by easy rotation and turnover.
- Durable and reusable PAB pin with flat surface.

Limited to where horizontal pin type tooth is mainly used.



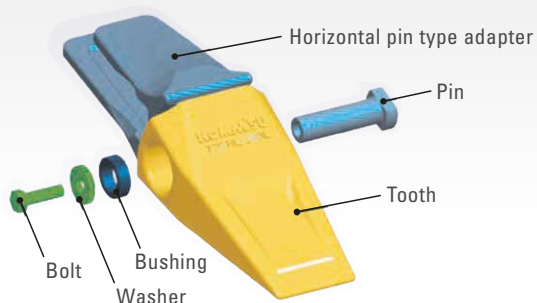
Set PAB tooth to horizontal pin type adapter.



Insert exclusive pin to the adapter pin hole.



Set bushing, washer and bolt and tighten by a ratchet wrench.



PAB tooth line-up

Type	Integrated long life IL	Heavy standard HS	Heavy rock HR
Style			

KPRIME Tooth

Safety enhancements

- Intuitive locking system.
- Pry slots on tooth and wear cap for easier removal of worn parts.
- Low torque pin for easy tooth changes.
- Weights marked on all parts.

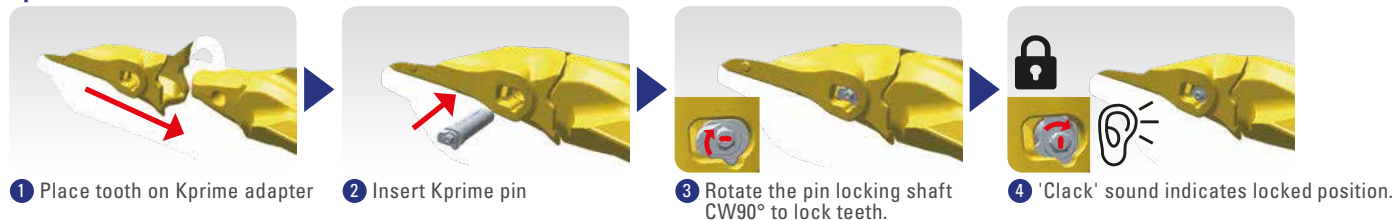
Productivity

- 10% - 15% increased usable wear material.
- Improved penetration by up to 15%.
- Wear indicators on wear cap and fastener.
- Rotatable tooth for extended life.
- Wear material added to adapter legs for longer wear life.
- Designed to stay sharp for the life of the tooth.

Reliability

- 10% stronger design reduces breakage.
- Improved pin design prevents unlocking after extended use.
- Optimized design reduces wear on adapters.
- Improved stability through tighter fit design of tooth to adapter.

Kprime tooth installation



*To remove fastener, use the correct size socket to rotate the pin locking shaft 90° counter-clockwise. Making sure click sound to finish the removal.

Hensley brand bucket

Features the Kprime™ tooth system.

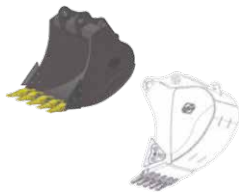
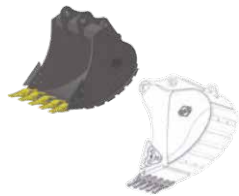
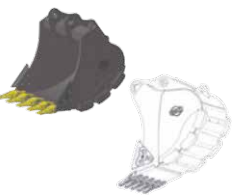
Quality design and construction.

Wide range of styles, widths and capacities, to maximize production.

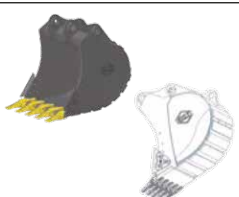
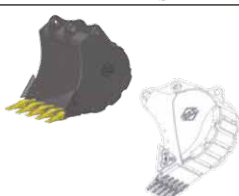


Category and Recommended applications guide

HP series buckets feature a dual taper / dual radius design profile and include one-piece blade (T-1), side kick plate (400 BHN), one-piece side plate, lip (T-1), and formed beam upper structure.

Category	Product features	Recommended application	Image
Heavy duty HP	Full bottom wear plate (400 BHN). Strike offs.	Soil/Clay. Loam. Coal Sand. Gravel.	
Severe duty HPS	Full bottom wear plate (400 BHN). Wear strips (400 BHN). Strike offs.	High silica sand. Caliche/ sandstone. Well shot limestone. Shale.	
Extreme duty HPX	Full bottom wear plate (400 BHN). Wear strips (400 BHN). Cast corner heel shrouds. Strike offs.	Granite. Ore. Limestone. Broken slag.	

X series buckets feature a semi flat floor profile and include one-piece blade (T-1), side kick plate (400 BHN), one-piece side plate, lip (T-1), formed beam upper structure and full bottom plate.

Category	Product features	Recommended application	Image
Heavy duty XP	Full bottom wear plate (400 BHN). Strike offs or Reversible vertical shrouds.	Soil/Clay. Loam. Coal Sand. Gravel.	
Severe duty XPS	Full bottom wear plate (400 BHN). Wear strips. Strike offs or Reversible vertical shrouds.	High silica sand. Caliche/ sandstone. Well shot limestone. Shale.	
Extreme duty XPSX	Full bottom wear plate (400 BHN). Wear strips. Cast corner heel shrouds. Strike offs or Reversible vertical shrouds.	Granite. Ore. Limestone. Broken slag.	

Bucket line-up

Category	Capacity (m³)	Width*1 (mm)	Weight*2 (kg)	Tooth quantity	Boom + Arm (m)		
					Standard undercarriage (600 mm shoes)		
					6.47+2.22	6.47+2.55	6.47+3.19
HP	1.18	914	1,318	4	○	○	○
	1.7	1,219	1,610	5	○	○	□
	1.96	1,372	1,933	6	□	□	●
	2.22	1,524	1,880	6	□	●	X
HPS	1.18	914	1,401	4	○	○	○
	1.70	1,219	1,740	5	○	○	●
	1.96	1,372	1,907	6	□	□	●
	2.22	1,524	2,049	6	●	●	X
HPX	1.18	914	1,504	4	○	○	○
	1.70	1,219	1,875	5	○	○	●
	1.96	1,372	2,030	6	□	●	●
	2.22	1,524	2,169	6	●	●	X
XP	1.18	914	1,235	4	○	○	○
	1.70	1,219	1,469	5	○	○	□
	1.96	1,372	1,600	6	○	□	●
	2.22	1,524	1,715	6	□	●	●
XPS	1.18	914	1,345	4	○	○	○
	1.70	1,219	1,618	5	○	○	□
	1.96	1,372	1,769	6	○	□	●
	2.22	1,524	1,904	6	□	●	X
XPSX	1.18	914	1,435	4	○	○	○
	1.70	1,219	1,708	5	○	○	□
	1.96	1,372	1,987	6	□	□	●
	2.22	1,524	1,994	6	□	●	X

○: Specific density less than 2.1 t/m³ ○: Specific density less than 1.8 t/m³
□: Specific density less than 1.5 t/m³ ●: Specific density less than 1.2 t/m³ X: Not usable
*1 With side cutters or side shrouds *2 With side cutters

Category	Feature	Style
Flare F	Loose material for clean bottom and greater fill.	
Standard SC	General applications.	
Pick chisel PC	General purpose tooth designed for penetration.	
Rock chisel RC	Designed for penetration and longer wear life.	
Tiger T	Offers best penetration in tight material.	
Twin tiger YT	Designed for penetration for corners.	

Breaker

Komatsu's JTHB breakers deliver exceptional impact energy, offer longevity with low operating costs. Additionally, they minimize operator fatigue and environmental impact. These unique benefits are all due to an innovative blend of a simple yet efficient design and advanced 'accumulator-free' technology. Komatsu breaker, JTHB355-5B is optimum for Komatsu PC300 series and ideal for applications from construction and demolition to recycling, mining and quarrying.

- Innovative features, real benefits



Large nitrogen gas chamber

70% of impact energy is generated in the nitrogen gas chamber. 30% is from hydraulic pressure.

Low sensitivity to back pressure

makes it possible to fit any excavator.

Accumulator free breaker structure

reduces number of parts and maintenance costs.

Blank firing protection system

contributes to higher durability.

These models are equipped with the system.

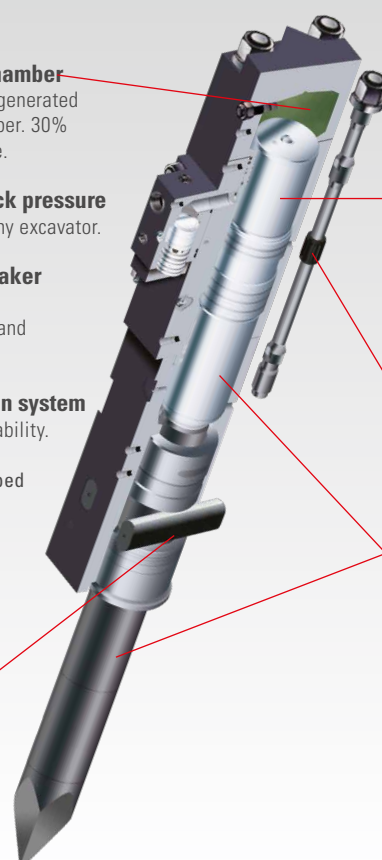
JTHB210-3B

JTHB355-5B

JTHB455-5B

Robust dual retainer pins

ensure correct tool alignment and longevity.



Long stroke piston

provides more power resulting in greater impact energy.

Durable tie rods with rubber vibration isolator

for higher durability.

50:50 piston-tool weight ratio

for efficient energy transfer.

Model	JTHB355-5B	
Working weight	Top mount box bracket	2,880 kg
Oil flow		180 - 230 L/min
Operating pressure		13 - 18 MPa
Impact rate		350 - 450 bpm
Tool diameter		Φ155 mm
Hose size		1 inch
N2 gas pressure		0.95 MPa



Support



Komatsu total support

Komatsu Distributor is ready to provide variety of support before and after procuring machine to keep customers machine available and minimize operation cost.

Fleet recommendation

Komatsu Distributor can study customer job site and provide the most optimum fleet recommendation with detailed information to meet all of your application needs when you are considering to buy new machines or to replace the existing ones from Komatsu.

Product support

Komatsu Distributor secure the quality of machine by offering quality repair and maintenance services to the customer using Komatsu developed programs.

- Preventive Maintenance (PM) Clinic.
- Komatsu Oil and Wear Analysis (KOWA).
- Undercarriage inspection service, etc.

Genuine parts and genuine oil

Komatsu Distributor will promptly and smoothly offer genuine parts and genuine oil guaranteed quality to various jobsites. Genuine oil is developed by Komatsu so that it is best matched for our Komatsu engines and hydraulic components. It maximizes engine and hydraulic components performance and prolong life.

Service contract

Komatsu Distributor offers several service package of repair and maintenance for a contracted period with optimum cost. Customer can be "worry-free" by trusting Komatsu Distributor skilled service.

Extended warranty

Extended warranty with several options available. Komatsu guarantee skilled repair with genuine parts and protection from unexpected expenses.

Operator training

Komatsu Distributor can provide excellent operator training which enables them to operate machine safely & efficiently and to maintain machine properly.

Specifications

Engine

Model	Komatsu SAA6D114E-3
Type	Water-cooled, 4-cycle, direct injection
Aspiration	Turbocharged, aftercooled
Number of cylinders	6
Bore	114 mm
Stroke	135 mm
Piston displacement	8.27 L
Engine power	
SAE J1995	Gross 194 kW / 260 hp
ISO 14396	194 kW / 260 hp
ISO 9249 / SAE J1349	Net 187 kW / 250 hp
Rated rpm	1,950 rpm
Fan drive method for radiator cooling	Mechanical
Governor	All-speed control, electronic

U.S. EPA Tier 3 and EU Stage 3A emissions equivalent.

Hydraulic system

Type	HydrauMind (Hydraulic Mechanical Intelligence New Design) system, closed-center system with load sensing valves and pressure compensated valves		
Number of selectable working modes	6		
Main pump			
Type	Variable displacement piston type		
Pumps for	Boom, arm, bucket, swing, and travel circuits		
Maximum flow	535 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	27.9 MPa 285 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 1,480 mm x 100 mm		
Arm	1-160 mm x 1,825 mm x 110 mm		
Bucket for 3.19 m arm	1-140 mm x 1,285 mm x 100 mm		
for 2.55 m arm	1-150 mm x 1,285 mm x 110 mm		
for 2.22 m arm	1-150 mm x 1,285 mm x 110 mm		

Drives and brakes

Steering control	2 levers with pedals
Drive method	Hydrostatic
Maximum drawbar pull	264 kN 26,900 kgf
Gradeability	70%, 35°
Maximum travel speed	
Lo(Auto-shift) / Mid(Auto-shift) / Hi	3.2 / 4.5 / 5.5 km/h
Service brake	Hydraulic lock
Parking brake	Mechanical disc brake

Swing system

Drive method	Hydrostatic
Swing reduction	Planetary gear
Swing circle lubrication	Grease-bathed
Service brake	Hydraulic lock
Holding brake / swing lock	Mechanical disc brake
Swing speed	9.5 rpm

Undercarriage

Center frame	X-frame
Track frame	Box-section
Seal of track	Sealed track
Track adjuster	Hydraulic
Number of shoes (each side)	
PC300-8M2	45
Number of carrier rollers (each side)	2
Number of track rollers (each side)	
PC300-8M2	7

Coolant and lubricant capacity (refilling)

Fuel tank	605 L
Coolant	31.0 L
Engine	37.0 L
Final drive (each side)	9.0 L
Swing drive	16.5 L
Hydraulic tank	188 L

Operating weight (approximate)

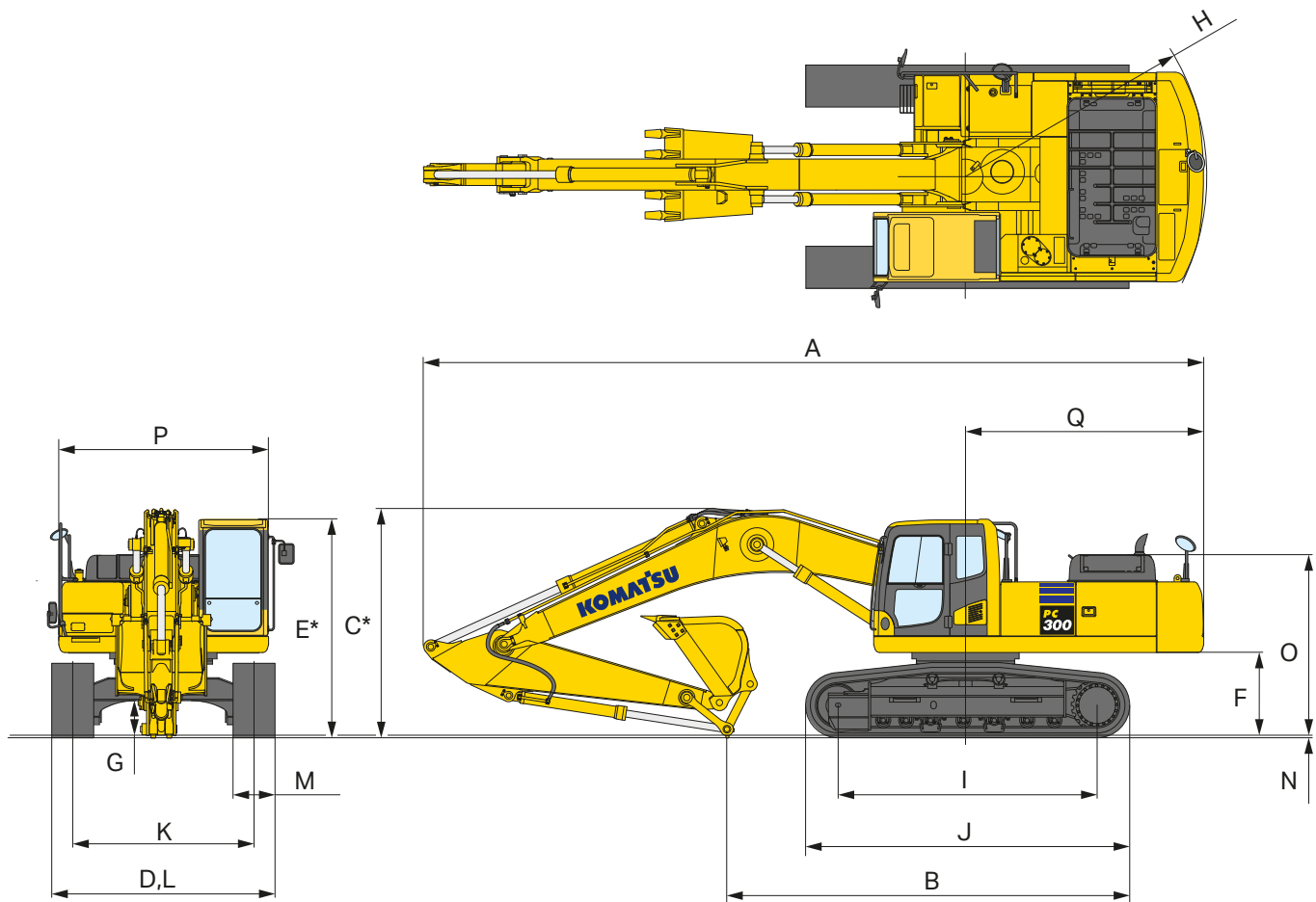
Operating weight including 6,470 mm one-piece boom, 3,185 mm arm, heaped 1.40 m³ backhoe bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

PC300-8M2		
Shoes	Operating weight	Ground pressure
600 mm	31,100 kg	62.9 kPa 0.64 kgf/cm ²
700 mm	31,660 kg	54.8 kPa 0.56 kgf/cm ²
800 mm	32,010 kg	48.5 kPa 0.49 kgf/cm ²

PC300-8M2

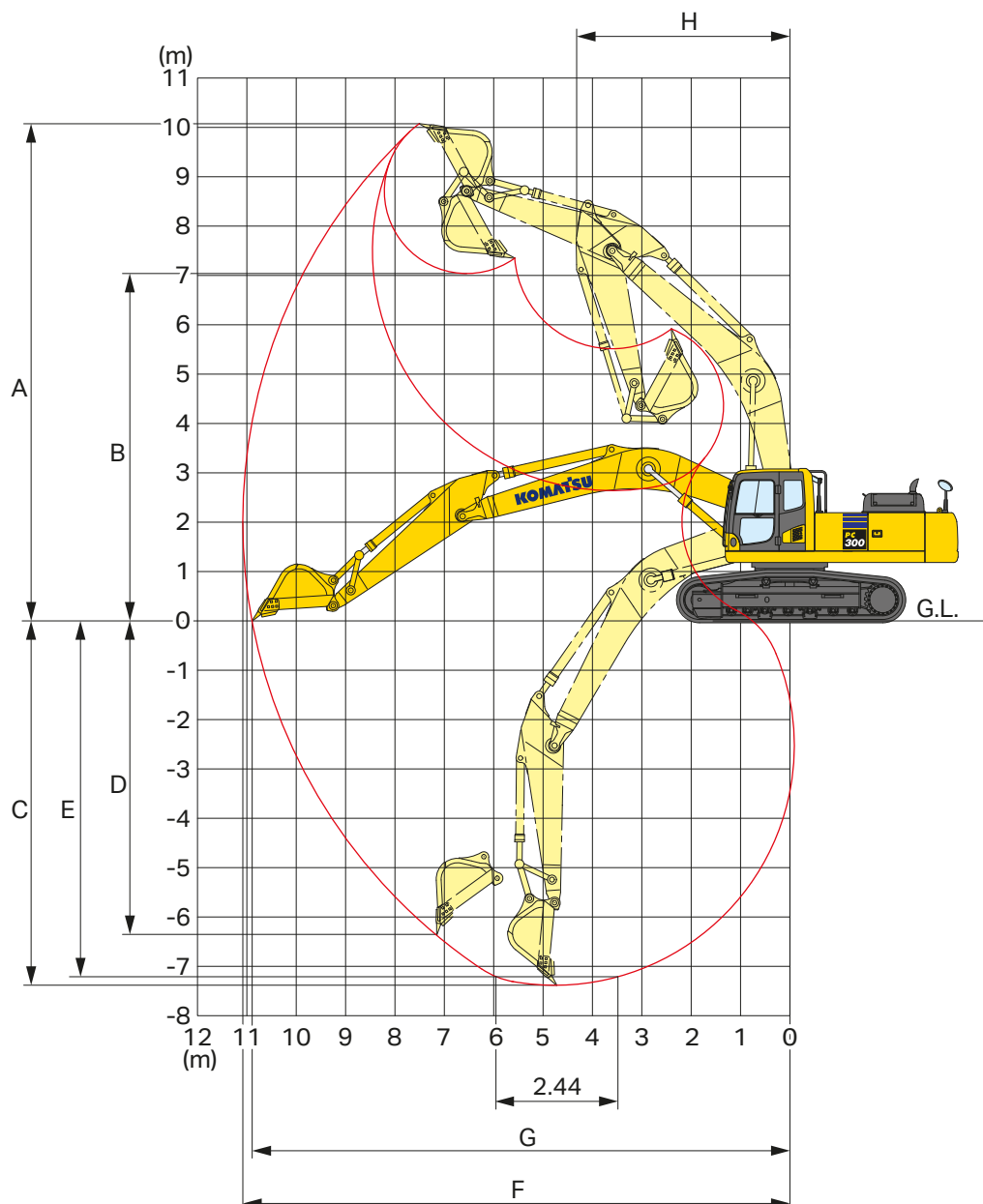
Machine dimensions	PC300-8M2	PC300-8M2	PC300-8M2
Boom length.	6,470 mm	6,470 mm	6,470 mm
Arm length.	2,220 mm	2,550 mm	3,185 mm
A Overall length.	11,300 mm	11,180 mm	11,140 mm
B Length on ground (transport).	7,320 mm	6,685 mm	5,755 mm
C Overall height (to top of boom)*.	3,480 mm	3,450 mm	3,285 mm
D Overall width.	3,190 mm	3,190 mm	3,190 mm
E Overall height (to top of cab)*.	3,145 mm	3,145 mm	3,145 mm
F Ground clearance, counterweight.	1,185 mm	1,185 mm	1,185 mm
G Minimum ground clearance.	500 mm	500 mm	500 mm
H Tail swing radius.	3,450 mm	3,450 mm	3,450 mm
I Length track on ground.	3,700 mm	3,700 mm	3,700 mm
J Track length.	4,625 mm	4,625 mm	4,625 mm
K Track gauge.	2,590 mm	2,590 mm	2,590 mm
L Width of crawler.	3,190 mm	3,190 mm	3,190 mm
M Shoe width.	600 mm	600 mm	600 mm
N Grouser height.	36 mm	36 mm	36 mm
O Machine cab height.	2,585 mm	2,585 mm	2,585 mm
P Machine cab width.	3,090 mm	3,090 mm	3,090 mm
Q Distance, swing center to rear end.	3,405 mm	3,405 mm	3,405 mm

* Including grouser height.

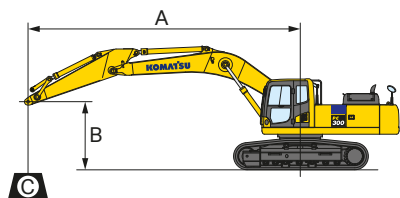


Specifications

Working range	PC300-8M2	PC300-8M2	PC300-8M2
Boom length	6,470 mm	6,470 mm	6,470 mm
Arm length	2,220 mm	2,550 mm	3,185 mm
A Max. digging height	9,460 mm	9,965 mm	10,100 mm
B Max. dumping height	6,520 mm	6,895 mm	7,050 mm
C Max. digging depth	6,400 mm	6,750 mm	7,380 mm
D Max. vertical wall digging depth	4,890 mm	5,880 mm	6,400 mm
E Max. digging depth of cut for 2,440 mm level	6,130 mm	6,520 mm	7,180 mm
F Max. digging reach	10,120 mm	10,550 mm	11,100 mm
G Max. digging reach at ground level	9,910 mm	10,355 mm	10,920 mm
H Min. swing radius	4,470 mm	4,450 mm	4,310 mm
Bucket digging force (ISO 6015)	259 kN	259 kN	228 kN
Arm crowd force (ISO 6015)	235 kN	201 kN	171 kN



Lifting capacity



PC300-8M2

A: Reach from swing center.

B: Arm top pin height.

C: Lifting capacity.

Cf: Rating over front.

Cs: Rating over side.

⊗: Rating at maximum reach.

PC300-8M2 Boom: 6,470 mm Arm: 2,220 mm Without bucket Shoe: 600 mm triple grouser

B	A	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	6.37 m		*10,000 kg	7,450 kg					*10,100 kg	8,300 kg				
6.0 m	7.43 m		7,900 kg	5,700 kg					*10,450 kg	8,100 kg				
4.5 m	8.07 m		6,750 kg	4,850 kg			7,600 kg	5,450 kg	10,800 kg	7,650 kg	*15,050 kg	11,700 kg		
3.0 m	8.39 m		6,200 kg	4,400 kg			7,350 kg	5,200 kg	10,250 kg	7,150 kg				
1.5 m	8.43 m		6,050 kg	4,250 kg			7,150 kg	5,000 kg	9,850 kg	6,800 kg				
0 m	8.20 m		6,200 kg	4,350 kg			7,000 kg	4,900 kg	9,650 kg	6,600 kg	15,250 kg	9,950 kg		
-1.5 m	7.66 m		6,850 kg	4,800 kg			7,000 kg	4,900 kg	9,650 kg	6,600 kg	15,350 kg	10,050 kg		
-3.0 m	6.76 m		8,300 kg	5,800 kg					9,800 kg	6,750 kg	*13,250 kg	10,300 kg	*14,700 kg	*14,700 kg
-4.5 m	5.28 m		*7,500 kg	*7,500 kg							*8,800 kg	*8,800 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.

PC300-8M2 Boom: 6,470 mm Arm: 2,550 mm Without bucket Shoe: 600 mm triple grouser

B	A 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	6.94 m	9,050 kg	6,550 kg										
6.0 m	7.91 m	7,150 kg	5,200 kg			7,850 kg	5,700 kg	*10,100 kg	8,250 kg				
4.5 m	8.52 m	6,250 kg	4,500 kg			7,700 kg	5,550 kg	10,950 kg	7,800 kg	*14,400 kg	12,050 kg		
3.0 m	8.82 m	5,800 kg	4,100 kg			7,450 kg	5,300 kg	10,400 kg	7,300 kg	16,300 kg	10,850 kg		
1.5 m	8.86 m	5,650 kg	4,000 kg			7,200 kg	5,050 kg	9,950 kg	6,900 kg				
0 m	8.64 m	5,800 kg	4,100 kg			7,050 kg	4,950 kg	9,700 kg	6,650 kg	15,350 kg	10,050 kg		
-1.5 m	8.14 m	6,300 kg	4,450 kg			7,000 kg	4,900 kg	9,650 kg	6,600 kg	15,400 kg	10,100 kg	*12,350 kg	*12,350 kg
-3.0 m	7.29 m	7,450 kg	5,200 kg					9,800 kg	6,700 kg	*14,150 kg	10,250 kg	*16,850 kg	*16,850 kg
-4.5 m	5.95 m	*7,500 kg	7,150 kg							*10,250 kg	*10,250 kg		

PC300-8M2 Boom: 6,470 mm Arm: 3,185 mm Without bucket Shoe: 600 mm triple grouser

B	A 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	7.61 m	*6,800 kg	5,600 kg			*7,450 kg	5,750 kg						
6.0 m	8.51 m	6,300 kg	4,550 kg			7,900 kg	5,700 kg						
4.5 m	9.07 m	5,550 kg	3,950 kg	5,650 kg	4,000 kg	7,650 kg	5,500 kg	*10,300 kg	7,850 kg				
3.0 m	9.36 m	5,200 kg	3,650 kg	5,500 kg	3,900 kg	7,350 kg	5,250 kg	10,450 kg	7,300 kg	*15,850 kg	11,150 kg		
1.5 m	9.40 m	5,050 kg	3,550 kg	5,400 kg	3,800 kg	7,100 kg	4,950 kg	9,950 kg	6,850 kg	15,650 kg	10,250 kg		
0 m	9.19 m	5,150 kg	3,600 kg	5,300 kg	3,700 kg	6,900 kg	4,800 kg	9,600 kg	6,550 kg	15,200 kg	9,900 kg		
-1.5 m	8.72 m	5,550 kg	3,850 kg			6,800 kg	4,700 kg	9,500 kg	6,450 kg	15,150 kg	9,850 kg	*12,950 kg	*12,950 kg
-3.0 m	7.93 m	6,350 kg	4,450 kg			6,850 kg	4,750 kg	9,500 kg	6,450 kg	15,250 kg	9,950 kg	*19,900 kg	*19,900 kg
-4.5 m	6.73 m	*7,750 kg	5,750 kg					*9,250 kg	6,700 kg	*12,150 kg	10,250 kg	*15,150 kg	*15,150 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 and optional equipment

Standard equipment

Engine:

- Air pre-cleaner.
- Automatic engine warm-up system.
- Compliant Bio diesel fuel.
- Dry type air cleaner, double element.
- Engine, Komatsu SAA6D114E-3.
- Engine overheat prevention system.
- Radiator and oil cooler dust proof net.
- Suction fan.

Electrical system:

- Alternator, 24 V/60 A.
- Auto-decelerator.
- Batteries, 2 X 12 V/126 Ah.
- Battery disconnect switch with system operating lamp.
- Starting motor, 24 V/7.5 kW.
- Working LED light, 2 (Boom and RH).
- Front LED light, 2 (Cab).

Hydraulic system:

- Arm holding valve.
- Inline filter.
- Boom holding valve.
- Clogging sensor for hydraulic oil return filter.
- Power maximizing system.
- Pressure Proportional Control (PPC) hydraulic control system.
- Two-mode settings for boom.
- Working mode selection system.
- Service valve.

Guards and covers:

- Fan guard structure.

Undercarriage:

- Hydraulic track adjusters (each side).
- Track roller, 7 each side (PC300-8M2).
- Track guiding guard, center section.
- 600 mm triple grouser shoes (PC300-8M2).

Operator environment:

- 12V power supply.
- A/C with defroster.
- Equipment management monitoring system.
- Large multi-lingual high resolution LCD monitor.
- Rear view mirror, RH, LH, rear, sidewise.
- ROPS cab (ISO 12117-2).
- Seat belt, retractable.
- Sun roller blind.
- Suspension seat.

Work equipment:

- 2,200 mm arm assembly.
- 6,470 mm boom assembly.

Other:

- Blow-by sensor.
- Counterweight.
- Electric horn.
- Electric priming pump.
- Komtrax (Only for approved area).
- Rear reflector.
- Slip-resistant plates.
- Travel alarm.

Optional equipment

Engine:

- Additional filter system for poor-quality fuel (Water separator).
- Large capacity fuel pre-filter.

Electrical system:

- Batteries, large capacity, 2 X 12 V/140Ah.
- Maintenance free batteries, large capacity, 2 X 12 V/136 Ah.
- Starting motor, 24 V/11.0 kW.
- Amber beacon lamp on cab roof.

Hydraulic system:

- Attachment piping & pilot filter.
- Clogging sensor for breaker return filter.

Guards and covers:

- Revolving frame deck guard.

Undercarriage:

- Track roller guards (full length).
- Track frame undercover.
- 700 mm triple grouser shoes (PC300-8M2).
- 800 mm triple grouser shoes (PC300-8M2).

Operator environment:

- Rain visor.
- Bolt-on top guard, OPG top guard level 2 (ISO 10262).
- Cab front full height guard, OPG level 1 (ISO 10262).
- Cab front full height guard, OPG level 2 (ISO 10262).
- Cab front half height guard.
- Multifunction audio (coming soon).
- Rear view monitor system.

Other:

- Fuel refill pump.

Further equipment on request

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

- Cab front full height guard level 1 (ISO 10262)



- Cab front full height guard level 2 (ISO 10262)



*LED is standard equipment for working lights.

- OPG top guard level 2 (ISO 10262)



- Strengthened track frame undercover



Satellite monitoring system



Komtrax is a revolutionary tracking system designed to save time and money. Nowadays, the equipment can be tracked anytime and anywhere. This valuable data, received via the KOMTRAX website, can be used to optimize planning of the movements and performance of the equipment.

Location

Komtrax uses a satellite positioning network to inform the location of the equipment.

Geofence

In partnership with their Komatsu Distributor, owners can create virtual fences (Geo) to receive alerts when the equipment enters or leaves the designated range for operations.

Service meter reading

Daily report of the equipment's working hours, which allows planning maintenance and replacement of components.

Komtrax operation maps

In the operation maps you can check the times of the day when the equipment is in operation and if the workers are performing their duties in the stipulated times.

Fuel measurement level

Shows the amount of fuel at the end of the working day.

Water temperature daily record

Constant record of the increase of engine water temperature with a daily report at the end of the day.

Cautions

If a light turns on in the cab of the equipment, it indicates that a problem occurs. From the website of the application you can check the reason for the problem, the time it occurred and a record number will be generated.

Abnormality codes

Abnormality codes are transmitted to the Komatsu Distributor for troubleshooting before technicians arrive at the workplace. An email notification is also sent with the code of what happened.

Notice of maintenance replacement

The system generates alerts to inform that the equipment requires replacement of elements like filters and oil.

Equipment key hours

Detailed information on key equipment hours such as excavation, travel, unloading and elevation. This can help to monitor and compare equipment performance, in addition to working hours and idle times.

Loading frequency

Information on the load factor of the equipment to know if it is performing in a light, medium or heavy work.

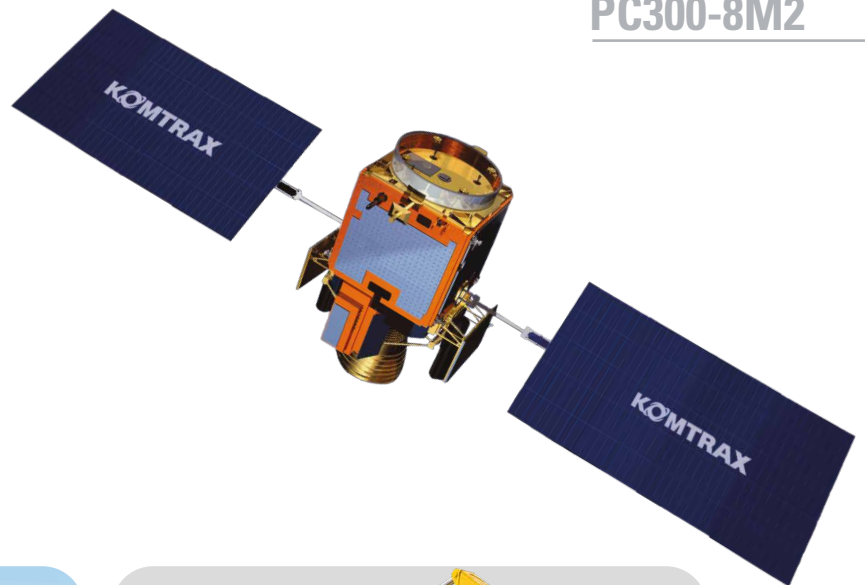
Fuel consumption

On new Komatsu equipment, you can get the actual status of the fuel gallons consumed, besides an average of the fuel spent per hour during the period of operation.

Monthly and annual data reports

Komtrax generates summaries of all critical system data to help with analysis of fleet utilization, equipment scheduling, future equipment purchases, labor costs, etc.

Check with your Komatsu distributor for the information available for your model and service availability in your country.





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