

KOMATSU®

PC45MR-3 PC55MR-3

PC
45
MR

HORSEPOWER

Gross: 29.5 kW 40.1 HP / 2400 min⁻¹

Net: 28.5 kW 39.0 HP / 2400 min⁻¹

OPERATING WEIGHT

PC45MR-3: 4795 kg

PC55MR-3: 5160 kg

BUCKET CAPACITY

PC45MR-3: 0.055 – 0.14 m³

PC55MR-3: 0.055 – 0.16 m³



Photos may include optional equipment.

WALK-AROUND





BEST PERFORMANCE EVEN IN NARROW SPACE

- Short Tail and Small Swing Radius
- Wide Angle Swing Boom
- Good Combination of Long Leach and Good Lifting Capacity

HIGH RELIABILITY STRUCTURE

- High Strength X-track Frame
- High Durability Bracket with Large Diameter Swing Pin
- Built-in Hydraulic Hoses with Protector

USER FRIENDLY SAFETY AND COMFORT

- Two-post ROPS (ISO 3471) Canopy Good Visibility
- Large Entrance and Foot Space

EASY MAINTENANCE

- Thermal and Fan Guards
- Tilting Cab and Full Open Covers
- Front Bonnet: Fuel Tank Refilling

FIRST CLASS COMFORT (CAB OPTIONAL)

- An Optimal Work Environment
- Comfortable Operator's ROPS (ISO 3471) Cab

KOMTRAX

- Equipment Management Support

PC45/55MR-3

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	Net:	28.5 kW 39.0 HP / 2400 min ⁻¹
OPERATING WEIGHT		4795 / 5160 kg
BUCKET CAPACITY		0.055 – 0.14 / 0.055 – 0.16 m ³

BEST PERFORMANCE EVEN IN NARROW SPACE

Outstanding stability is Delivered with Short Tail and Swing Boom



Work Machine Speed Up

Work equipment speed is faster than current model.

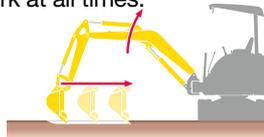
Speed-up ratio of work machine.

Work machine	PC45MR-3	PC55MR-3
Boom-up speed	7 % UP	7 % UP
Arm-dump speed	7 % UP	11 % UP

Closed-center load sensing system

The pressure-compensated Closed-center load sensing system ensure each actuator works according to its control input.

These give operator precise control and ideal work at all times.



Strong Digging Force

Due to the strong force it is possible to digging smoothly even on hard ground.

PC45MR-3

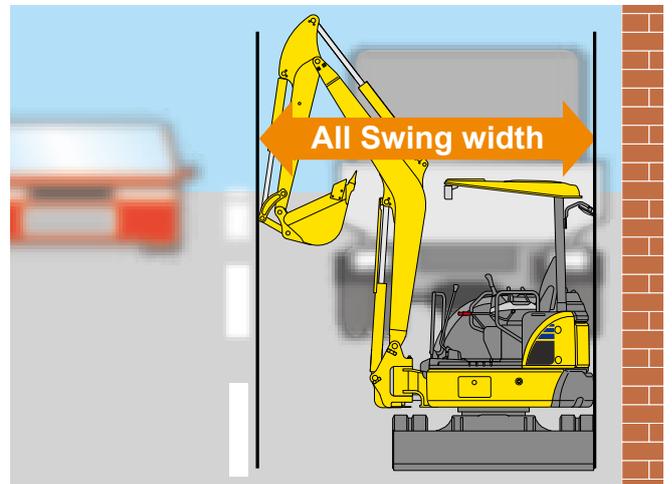
Bucket Digging Force: **34 kN**
Arm Crowd Force : **22 kN**

PC55 MR-3

Bucket Digging Force: **39 kN**
Arm Crowd Force : **24 kN**

Short Tail and Small Swing Radius

Operator can worry less about rear swing impact even in narrow spaces with combination of only 80 mm projection over the track and small swing radius.

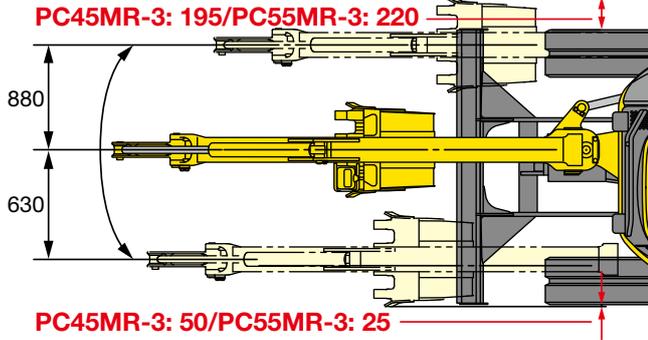


Item	PC45MR-3	PC55MR-3
All swing width	2830 mm	2800 mm

Wide Angle Swing Boom

The swing boom's angle is wide and realizes direct digging close to the edge of wall.

unit: mm

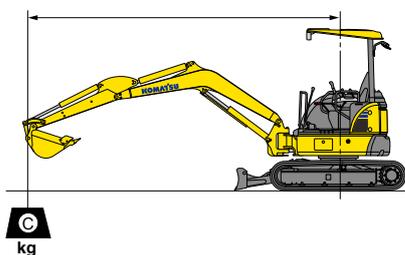


Good Combination of Long Leach and Good Lifting Capacity

The enlarged boom cylinder and good stability increase the lifting capacity and long reach.

Max. Digging Reach	PC45MR-3	PC55MR-3
With STD arm	5735 mm	6220 mm
With long arm	6130 mm	6570 mm

Lifting capacity with STD arm and Blade on ground	Posture	PC45MR-3	PC55MR-3
At 3 m	FRONT	1195 kg	985 kg
At max. reach	SIDE	505 kg	435 kg



Traveling Performance and Functions to Make Operation on Site Smoother

Automatically senses the travel load and shifts between high speed and low speed travel. This function and strong traction force (Max: 3400 kg) make the movement on site smoother.

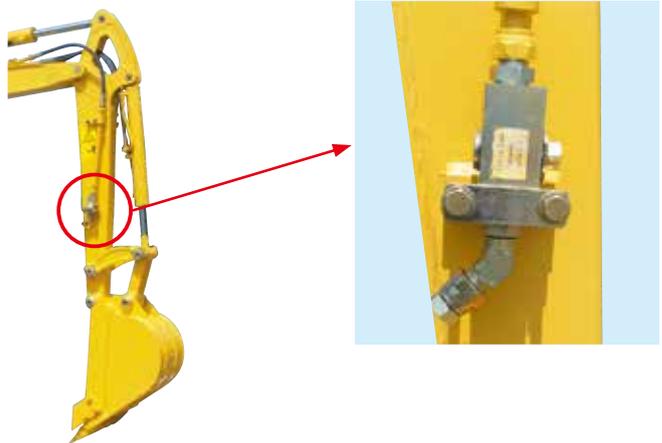
Travel speed selector switch



Travel speed	PC45MR-3	PC55MR-3
High (km/h)		4.6
Low (km/h)		2.8

Auxiliary Hydraulic Flow (Optional)

Large auxiliary hydraulic flow can utilize attachments more efficiently. High output auxiliary hydraulics allow variety of attachments to be used.



Tie-Down or Anchor Points

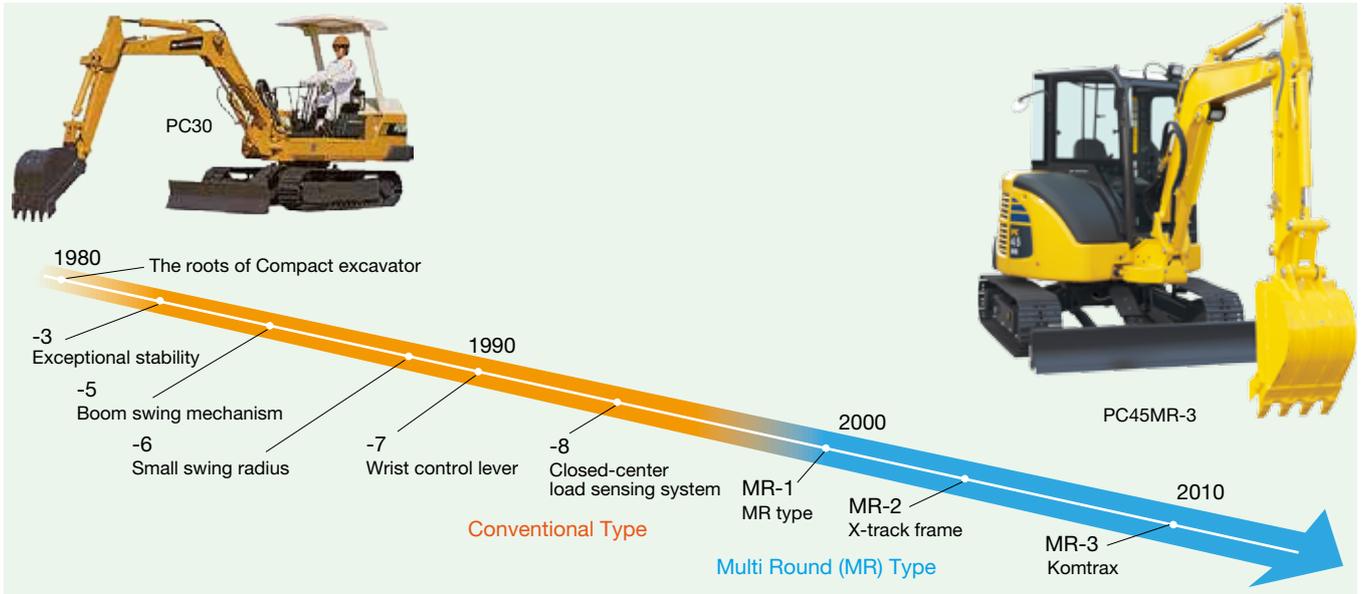
Large tie-down or anchor points in the track frame and blade allow the machine to be secured quickly for transport.



HIGH RELIABILITY STRUCTURE

High Durability and Quality

30 years History of Compact Hydraulic Excavator



Evolution of Compact Hydraulic Excavator

The foundation philosophy of Komatsu is to pursue quality and reliability.

Compact hydraulic excavator has a long history and the quality improvement has been repeated since 1981.

Durable Improvement and Extension of the Periodical Maintenance Time

High-strength Brass Bushes



High-strength brass bushes are adopted (except around bucket) are, extending the lubrication interval to 500 hours.

Long life filters to protect your machine component

Eco White Filter extends the replacement time of the hydraulic oil filter to every 2000 hours.

Item	Replacement frequency
Engine Oil Filter	Every 500 hours
Engine Oil	
Fuel Filter	
Hydraulic Filter (Eco White)	Every 2000 hours
Hydraulic Oil	

Extension time of engine oil and fuel filter extended every 500 hours.

High strength work equipment

It has Durability to withstand any application.

Komatsu thoroughly investigated and analyzed the customer's job site and built in working machines with sufficient.

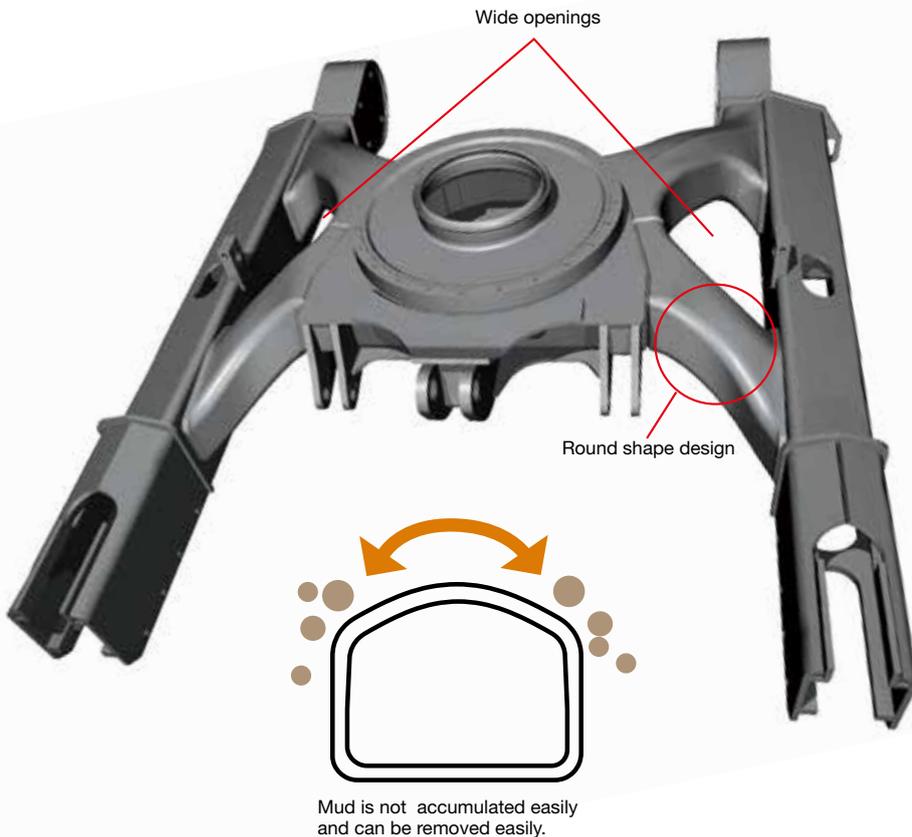
Sheet metal of the decoration structure

Easy to repair and cost of repairing is reduced.



High Strength X-track Frame

The new “X-frame” ensures maximum stress resistance and optimal stress distribution. Its shape makes the machine a lot more rigid and reliable. In addition, it facilitates the regular undercarriage cleaning operations and the spoils removal process.



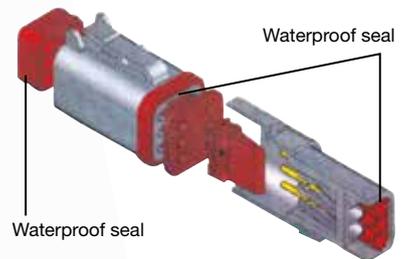
Face Seal

O-ring face seals having high sealing performance are used for hydraulic joints.



Sealed Connectors

Water-resistant sealed connectors seal tight and have reliability.



A Chevron-shaped Boom Cylinder Guard

This design reduces damage to the cylinder caused by interference of the breaker, hitting against the dump vessel, etc.



High Durability Bracket with Large Diameter Swing Pin

It has high durability and maintains suitable clearances between pin and bushing after long-term operation. Bracket is rigid and the parts around swing has high durability.



Built-in Hydraulic Hoses with Protector

The hose joints between the arm and boom have been built in. The piping at the boom foot of MR-3 series is also built in to further heighten reliability.



USER FRIENDLY SAFETY AND COMFORT

Superior Comfort Brings Best Performance



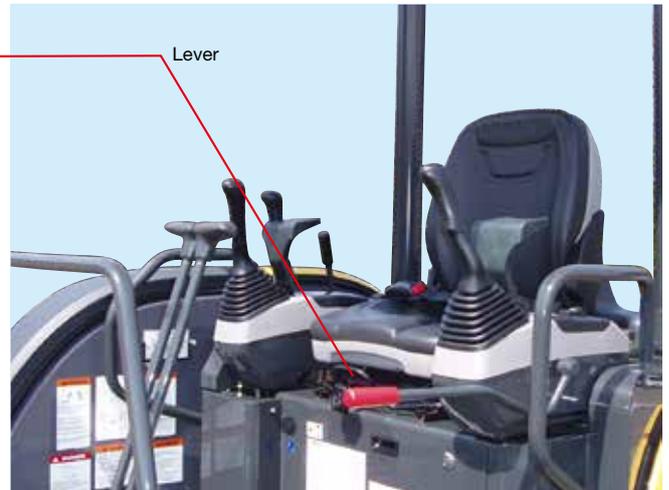
Safety Lever

The engine can start only when the lever is in the lock position. This system prevents unexpected accident.

Lock position



Unlock position



Two-post ROPS (ISO 3471) Canopy Good Visibility

Two post ROPS canopy not only enable operator to protect from accident such as roll over but also the advantage of good front visibility. The operator can watch 360° field view.



Wide Operator Seat

Large operator seat reduce stress.



New Design Monitor

New design monitor make checking machine condition easily.



Large Entrance and Foot Space

Operator can get on and off easily.



Light for Safety

A working lamp for work equipment is provided on the boom bottom to prevent damage due to accidental contact.



This travel lamp provides an increased visibility both in a night operation and in the travel position.



EASY MAINTENANCE

Easy Maintenance to Reduce Cost



Thermal and Fan Guards are Placed Around High-temperature Parts of Engine and Fan Drive

These guard ensure safety during maintenance.



Tilting Cab and Full Open Covers

The wide opening engine bonnets provide a quick access to daily inspection points. The fuel and the hydraulic oil tanks are located under the side bonnet, in a safe and easy-to-reach position. In addition, the cab tilts back for major maintenance tasks much easier.



Rear bonnets for quick engine checks, simple inspections, cleaning of the radiators and easy access to the battery.

Front Bonnet: Fuel Tank Refilling

Engine food cover is opening full and Large-sized fuel filler that reduces fuel flow-back is utilized.



Easy Clean Side-by-side Cooling Section

The cooling efficiency of the cooling section is increased by utilizing the side-by-side coolers. The side-by-side coolers allow easy cleaning.



FIRST CLASS COMFORT (CAB OPTIONAL)

A Large-sized Cab is a Competitive Advantage for Compact Excavator



An Optimal Work Environment

Despite its compact size, the PC45/55MR-3 offers unequalled comfort. The spacious cab was developed with exceptional care to details, and the work environment is quiet and comfortable.

Special attention was given to the operator: ergonomic and dedicated Pressure Proportional Control (PPC) controls, and, in option, an efficient air conditioning and ventilation system to guarantee optimal thermal comfort. The upper rail sliding door makes getting in and out of the machine very easy and safe in any situation.



Comfortable Operator's ROPS (ISO 3471) Cab

The large rear glass provides the operator excellent rear visibility.



Sliding Door

Operator can get in and out of the machine very easy.



Large-capacity Fresh-air-in Air Conditioner (Cab)

The operator can work comfortably in all seasons because of the large-capacity fresh-air-in air conditioner and defrosting system with well located air flow outlets .

Front Window Pull-up

Smooth opening and closing is possible.



KOMTRAX

The Komatsu remote monitoring and management technology provides insightful data about your equipment and fleet in user-friendly format.

Energy Saving Operation Report

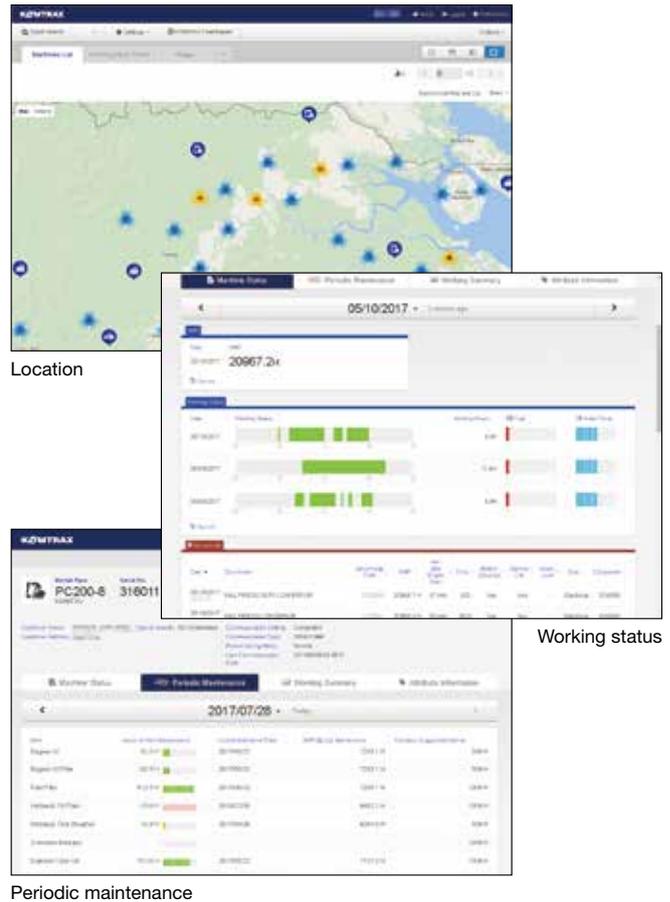
KOMTRAX delivers the energy-saving operation report based on the operating information such as fuel consumption, load summary and idling time, which helps you efficiently run a business.



This report image is an example of hydraulic excavator

Equipment Management Support

Through the web application, a variety of search parameters are available to quickly find information about specific machines based on key factors. Moreover, KOMTRAX finds out machines with problems from your fleet and shows you through an optimal interface.



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.



ATTACHMENT

Komatsu Genuine Attachment Tool

Komatsu-recommended attachment tools for hydraulic excavators
A wide range of attachment tools are provided to suit customers' specific applications.

Hydraulic breaker

The hydraulic breaker is an attachment tool used for crushing rock beds and paved surfaces, demolishing concrete structures, etc. The large gas chamber, ideal gas pressure ratio, and long-stroke piston deliver a powerful impact force. Since the breaker unit does not require an accumulator, the number of parts has been reduced, resulting in lower maintenance costs.



Crusher

This attachment tool is used for demolishing concrete structures. Since it does not have a striking mechanism and features low noise and low vibration, it is suitable for work in urban areas. The open-close cylinder is equipped with a speed-up valve for increasing work speed.



Primary crusher



Pulverizer

Applications of Attachment Tools

Application/ Attachment Tool	Civil Engineering	Demolition	Industrial Waste Disposal	Utility Construction	Rental
Hydraulic Breaker	○	○	○	○	○
Crusher (Primary Crusher)		○			○
Crusher (Pulverizer)		○	○		○

Model	PC45MR-3	PC55MR-3
Hydraulic Breaker	JTHB40	JTHB50
Crusher (Primary Crusher)	JATS500	
Crusher (Pulverizer)	JASC35	

KOMATSU TOTAL SUPPORT



Komatsu Total Support

To keep your machine available and minimize operation cost when you need it, Komatsu Distributor is ready to provide a variety of supports before and after procuring the machine.

Fleet recommendation

Komatsu Distributor can study the customer's 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 replace the existing ones from Komatsu.

Product support

Komatsu Distributor gives the proactive support and secures the quality of the machinery that will be delivered.

Parts availability

Komatsu Distributor is available for emergency inquiry by the customers for genuine, quality guaranteed Komatsu parts.

Technical support

Komatsu product support service (Technical support) is designed to help customer. Komatsu Distributor offers a variety of effective services to show how much Komatsu is dedicated to the maintenance and support of Komatsu machine.

- Preventive Maintenance (PM) clinic
- Oil & Wear analysis program

Repair & maintenance service

Komatsu Distributor offers quality repair and maintenance service to the customer, utilizing and promoting Komatsu developed programs.

Komatsu Reman (Remanufactured) components

Komatsu Reman products are the result of the implementation of the Komatsu global policy which establishes and agrees to reduce the owning, operating and total Life Cycle Costs (LCC) to Komatsu's customer through high quality, prompt delivery and competitively priced in own remanufactured products (QDC).



SPECIFICATIONS



ENGINE

Model Komatsu 4D88E-6
 Type Direct injection
 Aspiration Natural
 Number of cylinders 4
 Bore 88 mm
 Stroke 90 mm
 Piston displacement 2.189 L
 Horsepower:
 SAE J1995 Gross 29.5 kW 40.1 HP
 ISO 9249 / SAE J1349 Net 28.5 kW 39.0 HP
 Rated rpm. 2400 min⁻¹
 Fan drive method for radiator cooling Mechanical
 Governor All speed control, mechanical



HYDRAULIC SYSTEM

Type Hydrau Mind system
 Main pump:
 Type Variable capacity x 2, gear x 1
 Maximum flow 53.5 x 2 + 33.8 L/min
 Hydraulic motors:
 Travel Variable capacity x 2
 Swing Fixed capacity x 1
 Relief valve setting:
 Implement circuits 26.5 MPa 270 kgf/cm²
 Travel circuit 26.5 MPa 270 kgf/cm²
 Swing circuit 18.6 MPa 190 kgf/cm²
 Pilot circuit 2.9 MPa 30 kgf/cm²
 Hydraulic cylinders:
 (Number of cylinders – bore x stroke x rod diameter)
 PC45MR-3
 Boom 90 mm x 696 mm x 50 mm
 Arm 80 mm x 649 mm x 50 mm
 Bucket 70 mm x 580 mm x 45 mm
 Boom offset 90 mm x 630 mm x 50 mm
 Blade 110 mm x 140 mm x 50 mm
 PC55MR-3
 Boom 90 mm x 696 mm x 50 mm
 Arm 85 mm x 733 mm x 55 mm
 Bucket 75 mm x 580 mm x 50 mm
 Boom offset 95 mm x 630 mm x 50 mm
 Blade 110 mm x 140 mm x 50 mm



DRIVES AND BRAKES

Steering control Two levers with pedals
 Drive method Hydrostatic
 Maximum drawbar pull 42.0 kN 4280 kgf
 Maximum travel speed: High 4.6 km/h
 Low 2.8 km/h
 Service brake Hydraulic lock
 Parking brake Mechanical disk brake



SWING SYSTEM

Drive method Hydraulic drive
 Swing reduction Planetary gear, double-reduction
 Swing circle lubrication Grease-bathed
 Swing lock Mechanical disk brake
 Swing speed 9.0 min⁻¹



UNDERCARRIAGE

Track frame X-frame
 Shoe type Box section
 Track adjuster Hydraulic type
 Number of shoes (Each side) 39 (steel)
 Number of carrier rollers (Each side) 1
 Number of track rollers (Each side) 4



COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank 65 L
 Coolant 8.5 L
 Engine 7.5 L
 Final drive (Each side) 0.8 L
 Hydraulic tank 20 L



OPERATING WEIGHT (APPROXIMATE)

PC45MR-3

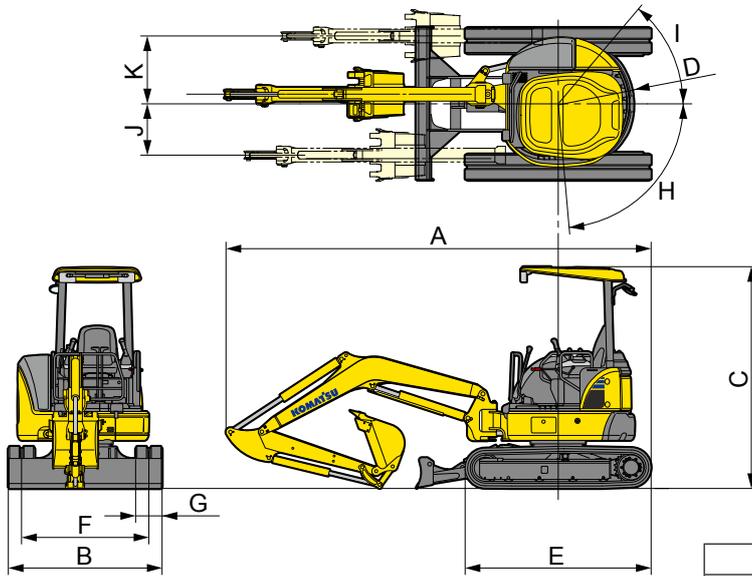
Shoes	Selection	Rubber shoes		Steel shoes	
	Width [mm]	400		400	
Cab / Canopy		Cab	Canopy	Cab	Canopy
Operating Weight [kg]		4915	4795	4980	4860
Ground Pressure [kgf/cm ²]		0.26	0.25	0.27	0.26

PC55MR-3

Shoes	Selection	Rubber shoes		Steel shoes	
	Width [mm]	400		400	
Cab / Canopy		Cab	Canopy	Cab	Canopy
Operating Weight [kg]		5820	5160	5345	5225
Ground Pressure [kgf/cm ²]		0.37	0.31	0.38	0.32



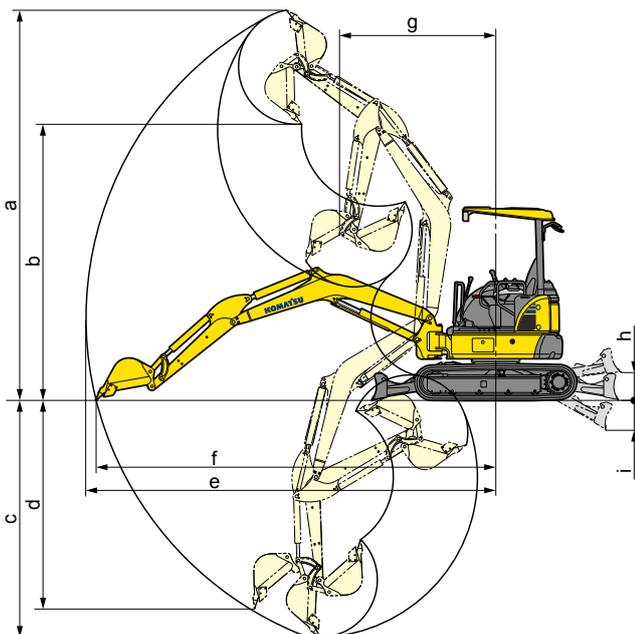
DIMENSIONS



		PC45MR-3	PC55MR-3
A	Overall length	5220 mm	5550 mm
B	Overall width	1960 mm	1960 mm
C	Overall height	2550 mm	2550 mm
D	Tail swing radius	1060 mm	1060 mm
E	Crawler length	2520 mm	2520 mm
F	Track gauge	1560 mm	1560 mm
G	Track shoe width	400 mm	400 mm
H/I	Boom swing angle deg.	LH85/RH50 deg.	LH85/RH55 deg.
J	Bucket offset LH	630 mm	630 mm
K	Bucket offset RH	880 mm	880 mm



WORKING RANGE



Standard Arm Working Range

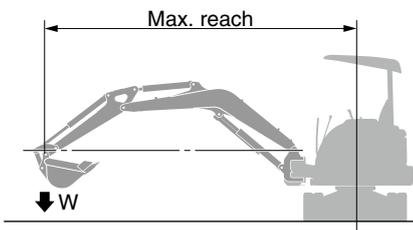
		PC45MR-3	PC55MR-3
a	Max. digging height	5515 mm	5945 mm
b	Max. dumping height	3785 mm	4230 mm
c	Max. digging depth	3350 mm	3800 mm
d	Max. vertical digging depth	2645 mm	3020 mm
e	Max. digging reach	5735 mm	6220 mm
f	Max. digging reach at ground level	5575 mm	6070 mm
g	Min. swing radius (When boom swing)	2340 mm (1770 mm)	2270 mm (1740 mm)
h	Max. blade lift	430 mm	430 mm
i	Max. blade depth	330 mm	330 mm

Long Arm Working Range

		PC45MR-3	PC55MR-3
a	Max. digging height	5780 mm	6215 mm
b	Max. dumping height	4060 mm	4495 mm
c	Max. digging depth	3770 mm	4160 mm
d	Max. vertical digging depth	3060 mm	3380 mm
e	Max. digging reach	6130 mm	6570 mm
f	Max. digging reach at ground level	5980 mm	6430 mm
g	Min. swing radius (When boom swing)	2410 mm (1860 mm)	2380 mm (1840 mm)
h	Max. blade lift	430 mm	430 mm
i	Max. blade depth	330 mm	330 mm



LIFTING CAPACITY WITH LIFTING MODE



PC45/55MR-3

- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- ⊙: Rating at maximum reach

	Arm length		2 m		3 m		Maximum	
			Front	Side	Front	Side	Front	Side
PC45MR-3	1375 mm	3 m			*990	*990	*1020	585
		2 m			*1530	1100	*1060	500
		1 m			*2125	1025	*1120	480
		0 m			*2345	995	*1195	505
		-1 m	*3010	1965	*2195	995	*1280	600
	1770 mm	0 m	*1250	1250	*2275	980	*1045	430

	Arm length		2 m		3 m		Maximum	
			Front	Side	Front	Side	Front	Side
PC55MR-3	1640 mm	3 m					*850	500
		2 m			*1435	1140	*885	440
		1 m			*2030	1045	*930	420
		0 m			*2260	1005	*985	435
		-1 m	*2790	1960	*2170	1000	*1050	500
	2000 mm	0 m	*1285	*1285	*2205	1010	*895	390

*Load is limited by hydraulic capacity rather than tipping. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping load.

BUCKET LINEUP

■ Bucket Line-up

Category	Capacity (m³)	Width (mm)		Weight (kg)	Number of teeth	Tooth type	PC45MR-3	PC55MR-3
		Without side cutters	With side cutters					
Narrow digging	0.055	300	370	90	3	Vertical	⊙	⊙
	0.11	430	500	95	3		⊙	⊙
General digging	0.14	530	600	110	4		○	
	0.16	580	650	120	5			○

○ : STD ⊙ : Selectable



STANDARD EQUIPMENT

ENGINE:

- Dry type air cleaner, double element
- Engine, Komatsu 4D88E-6
- Fuel pre-filter (With water separator)
- Side-by-side cooling
- Wave fin radiator

ELECTRICAL SYSTEM:

- Automatic two-speed travel control
- Working lights

HYDRAULIC SYSTEM:

- Closed-center system with load-sensing
- PPC

GUARDS AND COVERS:

- Fan guard structure
- Thermal guard

OPERATOR ENVIRONMENT:

- Rear view mirrors (RH, LH)
- Right seat, reclining with wrist rests

- Seat belt, 78 mm
- Two-post ROPS (ISO 3741) & top guard canopy
- Washable floor mat

OTHER EQUIPMENT:

- 400 mm rubber shoes
- Standard blade (Weld edge type)
- Travel alarm



OPTIONAL EQUIPMENT

- Additional working light
- Air conditioner (A/C) (For cab)
- Cigarette lighter (For cab)
- Pattern change valve (ISO - Backhoe) (ISO control pattern (ISO 10968))
- Radiator net
- Radio (For cab)
- Suspension seat, reclining with wrist rests
- ROPS (ISO 3741) & top guard cab with heater, front window washer/wiper, cup holder and ashtray
- Seat belt, 50 mm width

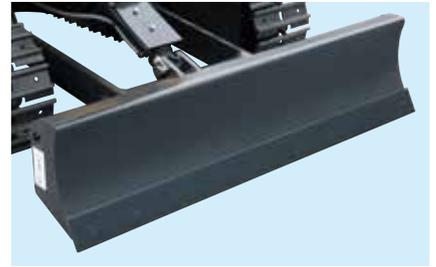
Pattern change valve

Pattern change valve allows the operator to change easily between ISO control pattern (ISO 10968) or backhoe control pattern.



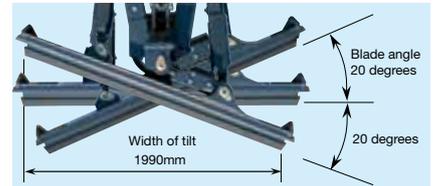
Optional blade

(Bolt on cutting edge (B.O.C.) type)



Power angle tilt blade

Power angle tilt blade realizes efficiency improvement of leveling work. The blade is B.O.C type.



Shoe type

STD		OPT	
400 mm rubber shoes	400 mm steel shoes	400 mm steel shoes with rubber pad	400 mm roadliner

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Printed in Japan 201903 IP.AD

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CEN00853-00

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