KOMATSU®

PC 30 MR

PC30MR-3
PC35MR-3

HORSEPOWER
Gross: 22.0 kW 29.5 HP / 2400 min^{-1}
Net: 21.4 kW 28.6 HP / 2400 min^{-1}

OPERATING WEIGHT
PC30MR-3: 3140 kg
PC35MR-3: 3580 kg

BUCKET CAPACITY
PC30MR-3: 0.035 – 0.11 m^3
PC35MR-3: 0.044 – 0.13 m^3

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

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

EASY MAINTENANCE

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

FIRST CLASS COMFORT *(CAB OPTIONAL)*

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

KOMTRAX

- Equipment Management Support

		PC30/35MR-3
HORSEPOWER	Gross:	22.0 kW 29.5 HP / 2400 min^{-1}
	Net:	21.4 kW 28.6 HP / 2400 min^{-1}
OPERATING WEIGHT		3140 / 3580 kg
BUCKET CAPACITY		0.035 – 0.11 / 0.044 – 0.13 m^3

Strong Digging Force is Delivered with Short Tail and Swing Boom

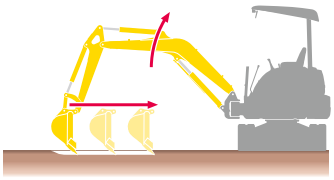
Work Machine Speed Up

Work equipment speed is faster than current model and compound operation is improved by Closed-center load sensing system.
Speed-up ratio of work machine

Work machine	PC30MR-3	PC35MR-3
Boom-up speed	12 % UP	10 % UP
Arm-dump speed	8 % UP	12 % UP

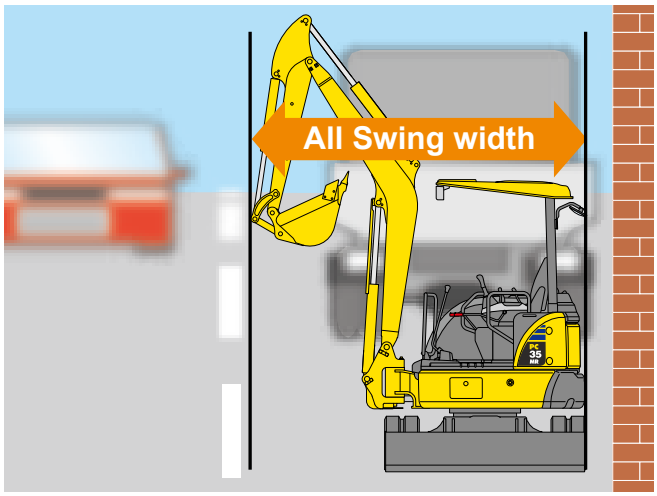
Closed-center load sensing system

The pressure-compensated Closed-center load sensing system ensure each actuator works according to its control input, regardless of the size of load. These give operator precise control and ideal work at all times.



Short Tail and Small Swing Radius

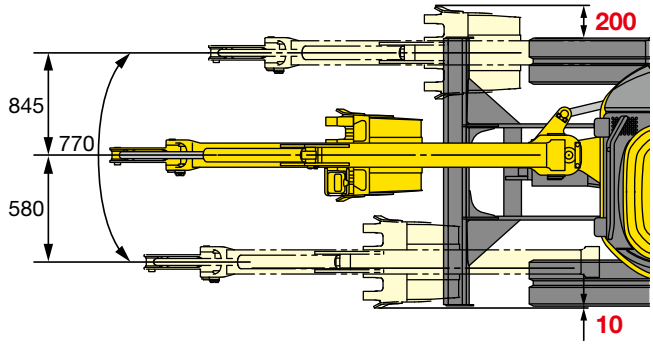
Operator can worry less about rear swing impact even in narrow spaces with combination of only 80 mm projection over the track and small swing radius.



Item	PC30MR-3	PC35MR-3
All swing width	2415 mm	2550 mm

Wide Angle Swing Boom

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

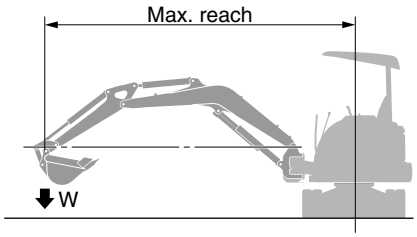


Good Combination of Long Leach and Good Lifting Capacity

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

Max. Digging Reach	PC30MR-3	PC35MR-3
With STD arm	5050 mm	5300 mm
With long arm	5390 mm	5640 mm

Lifting capacity with STD arm	PC30MR-3	PC35MR-3
At 3 m	365 kg	580 kg
At max. reach	220 kg	345 kg



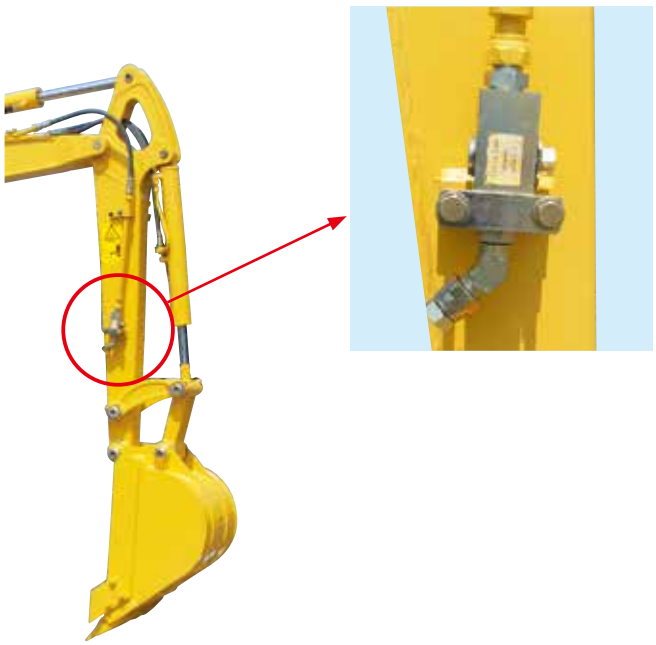
Traveling Performance and Functions to Make Operation on Site Smoother

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	PC30MR-3	PC35MR-3
High (km/h)	4.6	4.8
Low (km/h)	2.5	2.8

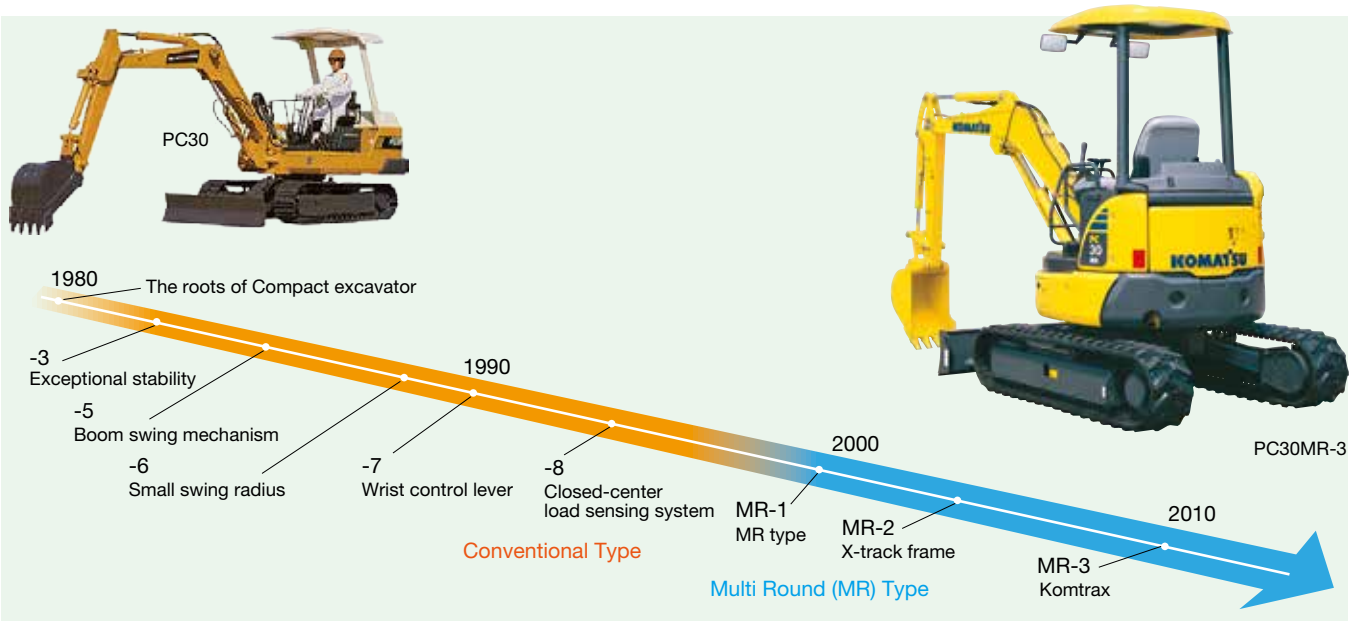
Auxiliary Hydraulic Flow (Optional)

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



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 Extensional of the Periodical Maintenance Time

High-strength Brass Bushes

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

Long life filters to protect your machine compornent

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)	
Hydraulic Oil	Every 2000 hours

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

High strength work equipment

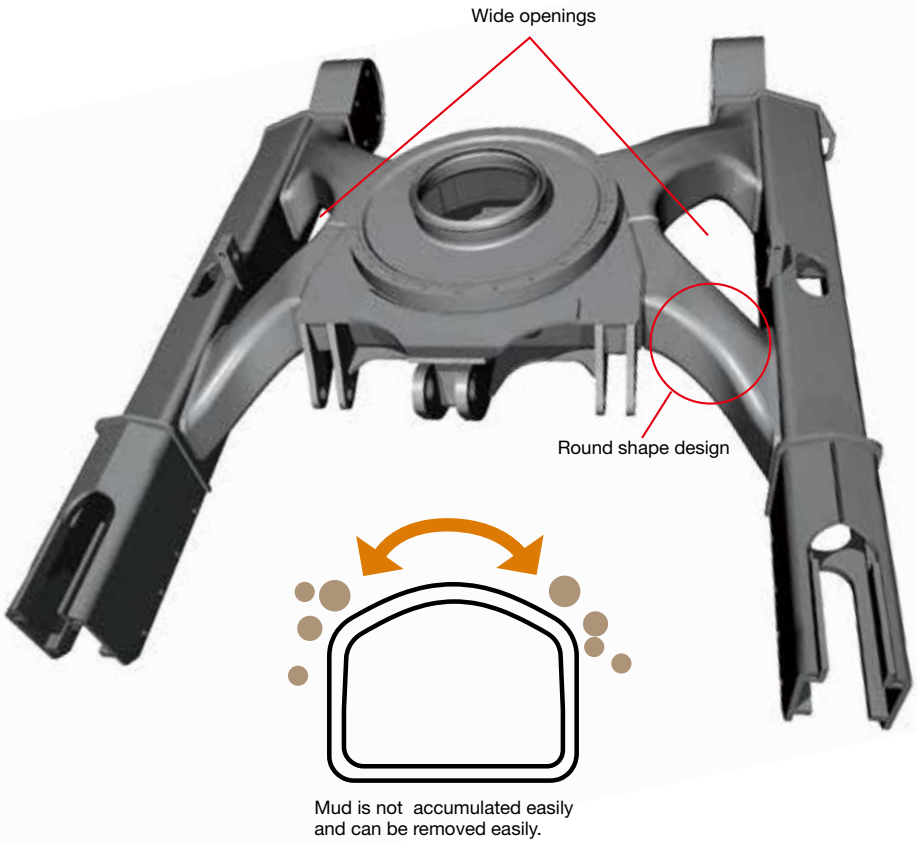
It has Durability to withstand any application.
Komatsu thoroughly investigated and analyzed the customer's job site and built in working machines with sufficient.

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.

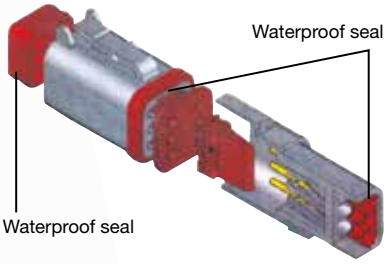


Face Seal

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.

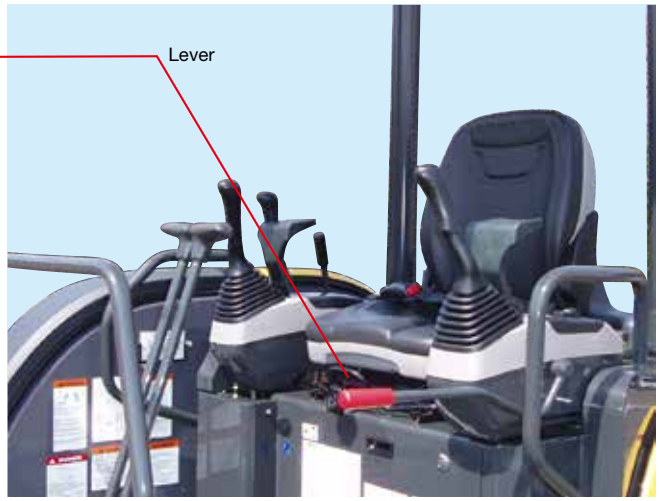
Superior Comfort Brings Best Performance

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 us 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 to Reduce Cost

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.

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

These guard ensure safety during maintenance.

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.

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

An Optimal Work Environment

Despite its compact size, the PC30/35MR-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. Last, but not least, 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.

Front Window Pull-up

Smooth opening and closing is possible.

Sliding Door

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

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

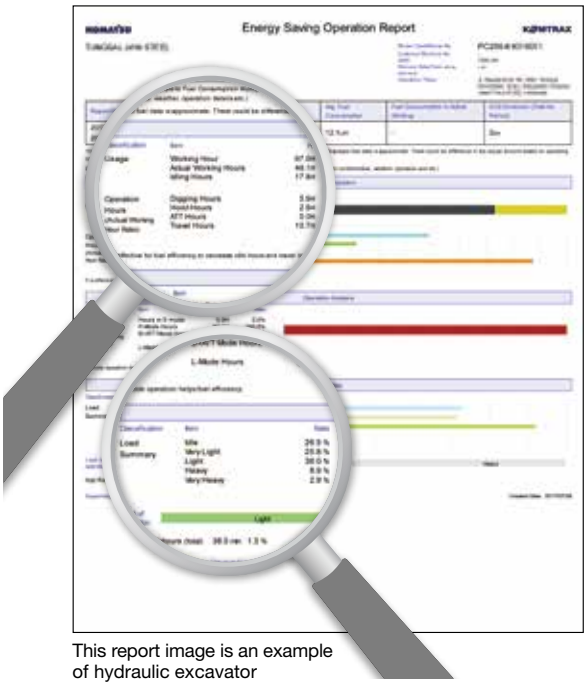
The operator can work comfortably in all seasons because of the large-capacity fresh-air-in air conditioner and defrosting system with well located air flow outlets .

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.



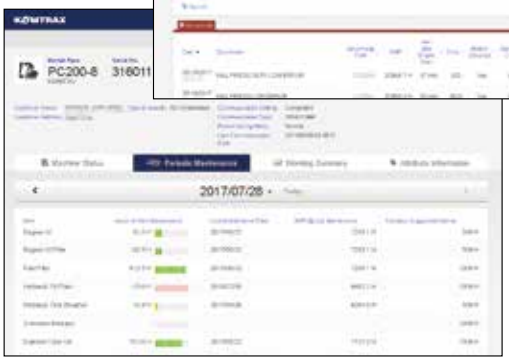
This report image is an example of hydraulic excavator

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.

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.

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


Steel-frame cutter

Applications of Attachment Tools

Application/ Attachment Tool	Civil Engineering	Quarry	Demolition	Industrial Waste Disposal	Iron-Making	Utility Construction	Rental
Hydraulic Breaker	○	○	○	○	○	○	○
Crusher (Primary Crusher)			○				○
Crusher (Pulverizer)			○	○			○
Steel-frame Cutter			○	○			

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 3D88E-6
Type . . . . . Direct injection
Aspiration . . . . . Natural
Number of cylinders 3
Bore . . . . . 88 mm
Stroke . . . . . 90 mm
Piston displacement . . . . . 1.642 L
Horsepower:
SAE J1995 . . . . . Gross 22.0 kW 29.5 HP
ISO 9249 / SAE J1349 . . . . . Net 21.4 kW 28.6 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:
PC30MR-3 . . . . . Variable capacity x 1, gear x 1
PC35MR-3 . . . . . Variable capacity x 2, gear x 1
Maximum flow:
PC30MR-3 . . . . . 69.8 x 1 + 19.8 L/min
PC35MR-3 . . . . . 36.1 x 2 + 19.8 L/min
Hydraulic motors:
Travel . . . . . Variable capacity x 2
Swing . . . . . Fixed capacity x 1
Relief valve setting:
Implement circuits . . . . . 26.0 MPa 265 kgf/cm^2
Travel circuit . . . . . 26.0 MPa 265 kgf/cm^2
Swing circuit . . . . . 19.1 MPa 195 kgf/cm^2
Pilot circuit . . . . . 2.9 MPa 30 kgf/cm^2
Hydraulic cylinders:
(Number of cylinders – bore x stroke x rod diameter)
PC30MR-3
Boom . . . . . 80 mm x 540 mm x 45 mm
Arm . . . . . 75 mm x 595 mm x 45 mm
Bucket . . . . . 65 mm x 490 mm x 40 mm
Boom offset . . . . . 80 mm x 500 mm x 40 mm
Blade . . . . . 85 mm x 135 mm x 45 mm
PC35MR-3
Boom . . . . . 80 mm x 585 mm x 45 mm
Arm . . . . . 75 mm x 595 mm x 45 mm
Bucket . . . . . 65 mm x 490 mm x 40 mm
Boom offset . . . . . 95 mm x 482 mm x 50 mm
Blade . . . . . 95 mm x 401 mm x 45 mm

DRIVES AND BRAKES

Steering control . . . . . Two levers with pedals
Drive method . . . . . Hydrostatic
Maximum drawbar pull . . . . . 33.2 kN 3400 kgf
PC30MR-3
Maximum travel speed: High . . . . . 4.6 km/h
Low . . . . . 2.5 km/h
PC35MR-3
Maximum travel speed: High . . . . . 4.8 km/h
Low . . . . . 2.8 km/h
Service brake . . . . . Hydraulic lock
Parking brake . . . . . Mechanical disk brake

SWING SYSTEM

Drive method . . . . . Fully hydrostatic drive
Swing reduction . . . . . Planetary gear
Swing circle lubrication . . . . . Planetary gear
Swing lock . . . . . Mechanical disk brake
Swing speed
PC30MR-3 . . . . . 9.3 min^{-1}
PC35MR-3 . . . . . 9.0 min^{-1}

UNDERCARRIAGE

Track frame . . . . . X-frame
Shoe type . . . . . Box section
Track adjuster . . . . . Hydraulic type
Number of shoes (Each side) . . . . . 44 (steel)
Number of carrier rollers (Each side) 1
Number of track rollers (Each side) 4

COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank . . . . . 44 L
Coolant . . . . . 3.3 L
Engine . . . . . 6.7 L
Final drive (Each side) . . . . . 0.6 L
Hydraulic tank . . . . . 14 L

OPERATING WEIGHT (APPROXIMATE)

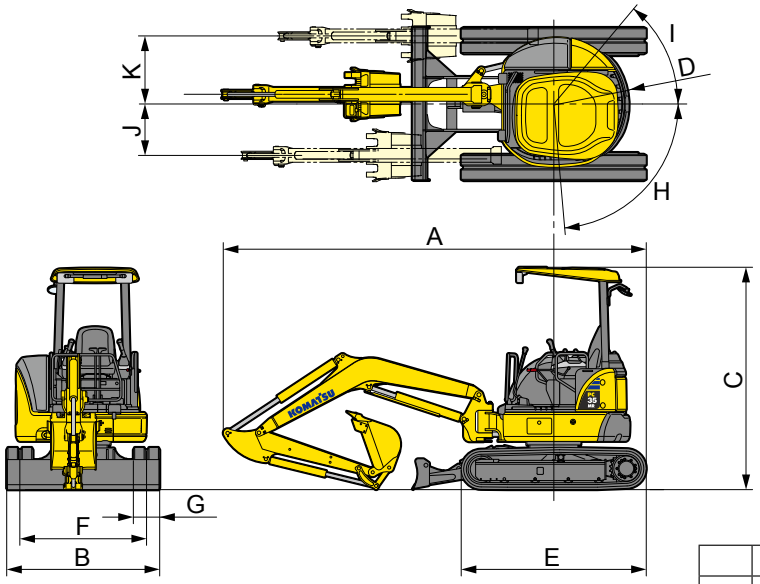
PC30MR-3

Shoes	Selection	Rubber shoes		Steel shoes	
	Width [mm]	300		300	
Cab / Canopy		Cab	Canopy	Cab	Canopy
Operating Weight [kg]		3310	3160	3420	3270
Ground Pressure [kgf/cm^2]		0.31	0.30	0.32	0.31

PC35MR-3

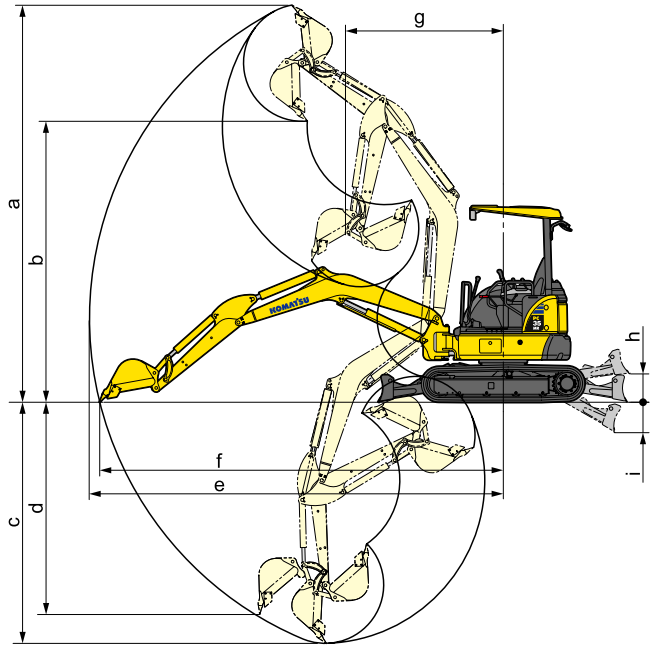
Shoes	Selection	Rubber shoes		Steel shoes	
	Width [mm]	300		300	
Cab / Canopy		Cab	Canopy	Cab	Canopy
Operating Weight [kg]		3725	3575	3825	3675
Ground Pressure [kgf/cm^2]		0.37	0.36	0.38	0.36

DIMENSIONS



		PC30MR-3	PC35MR-3
A	Overall length	4560 mm	4825 mm
B	Overall width	1550 mm	1740 mm
C	Overall height	2520 mm	2520 mm
D	Tail swing radius	855 mm	950 mm
E	Crawler length	2105 mm	2105 mm
F	Track gauge	1250 mm	1440 mm
G	Track shoe width	300 mm	300 mm
H/I	Boom swing angle deg.	LH80/RH50 deg.	LH75/RH55 deg.
J	Bucket offset LH	580 mm	580 mm
K	Bucket offset RH	845 mm	770 mm

WORKING RANGE



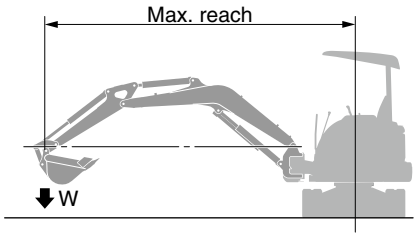
Standard Arm Working Range

		PC30MR-3	PC35MR-3
a	Max. digging height	4840 mm	5000 mm
b	Max. dumping height	3350 mm	3530 mm
c	Max. digging depth	2760 mm	3110 mm
d	Max. vertical digging depth	2400 mm	2690 mm
e	Max. digging reach	5050 mm	5300 mm
f	Max. digging reach at ground level	4910 mm	5170 mm
g	Min. swing radius (When boom swing)	2055 mm (1560 mm)	2030 mm (1600 mm)
h	Max. blade lift	360 mm	360 mm
i	Max. blade depth	310 mm	390 mm

Long Arm Working Range

		PC30MR-3	PC35MR-3
a	Max. digging height	5070 mm	5270 mm
b	Max. dumping height	3580 mm	3790 mm
c	Max. digging depth	3130 mm	3455 mm
d	Max. vertical digging depth	2770 mm	3120 mm
e	Max. digging reach	5390 mm	5640 mm
f	Max. digging reach at ground level	5215 mm	5520 mm
g	Min. swing radius (When boom swing)	2190 mm (1665 mm)	2140 mm (1710 mm)
h	Max. blade lift	360 mm	360 mm
i	Max. blade depth	310 mm	390 mm

LIFTING CAPACITY WITH LIFTING MODE



PC30/35MR-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
PC30MR-3	1240 mm	3 m			*795	435	*825	290
		2 m			*1000	420	*825	225
		1 m			*1320	385	*845	210
		0 m	*2660	680	*1440	365	*870	220
		-1 m	*2140	695	*1250	365	*880	275
	1610 mm	0 m	*2820	670	*1415	360	*780	185

	Arm length		2 m		3 m		Maximum	
			Front	Side	Front	Side	Front	Side
PC35MR-3	1370 mm	3 m			*705	680	*690	385
		2 m			*960	655	*710	315
		1 m			*1290	610	*845	335
		0 m	*2610	1100	*1430	580	*885	345
		-1 m	*2245	1120	*1325	580	*920	415
	1720 mm	0 m	*2735	1085	*1390	575	*720	275

*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 (m^3)	Width (mm)		Weight (kg)	Teeth quantity	Tooth type	PC30MR-3	PC35MR-3
		Without side cutters	With side cutters					
Narrow digging	0.035	250	320	50	3	Vertical	(○)	
	0.044	280	350	55	3		(○)	(○)
	0.055	350	420	65	3		(○)	(○)
General digging	0.09	430	500	80	4		○	(○)
	0.11	530	600	85	4		(○)	○
	0.13	630	700	100	4			(○)

○ : STD (○) : Selectable

STANDARD EQUIPMENT

ENGINE:
- Dry type air cleaner, double element
- Engine, Komatsu 3D88E-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:
- 300 mm rubber shoes
- Standard blade (weld edge type)
- Travel alarm

OPTIONAL EQUIPMENT

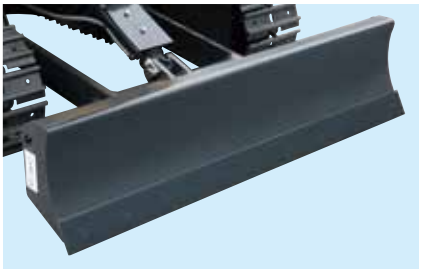
- 300 mm steel shoes
- Additional working light
- Air conditioner (A/C) (For cab)
- Cigarette lighter (For cab)
- Pattern change valve (ISO - Backhoe) (ISO control pattern (ISO 10968))
- Radiator net
- Radio (For cab)
- Suspension seat, reclining with wrist rests
- ROPS (ISO 3471) & top guard cab with 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)



Shoe type

STD	OPT		
300 mm rubber shoes	300 mm steel shoes	300 mm steel shoes with rubber pad	300 mm roadliner
			

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