

General specification

Engine*

Model	Komatsu 4D88E-7*		
Type	Water-cooled, 4-cycle, direct injection, cooled EGR		
Aspiration	Naturally aspirated		
Number of cylinders	4		
Bore x stroke	88 mm x 90 mm	3.46" x 3.54"	
Piston displacement	2.19 L 134 in³		
Horsepower			
SAE J1995	Gross	29.1 kW	39 HP
ISO 9249 / SAE J1349	Net	28.3 kW	38 HP
	Rated rpm	2,400	
Fan drive method for radiator cooling	Mechanical		
Governor	All-speed control, electronic		

*EPA Tier 4 Final emissions certified.

Hydraulics

Type	HydrauMind (Hydraulic Mechanical Intelligence New Design) system		
Number of selectable working modes	2		
Main pumps			
Type	Variable displacement piston		
Pumps for	Boom, arm, bucket and travel circuits		
Maximum flow	153.3 L/min 40.1 gal/min		
Type	Fixed displacement gear		
Pumps for	Swing and blade		
Maximum flow	63 L/min 16.6 gal/min		
Auxiliary			
Hydraulic flow	70 L/min 18 gal/min		
Auxiliary relief	17.2 MPa 2,494 psi		
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	26.5 MPa 270 kgf/cm ² 3,844 psi		
Travel circuit	26.5 MPa 270 kgf/cm ² 3,844 psi		
Swing circuit	21.6 MPa 220 kgf/cm ² 3,133 psi		
Pilot circuit	3.14 MPa 32 kgf/cm ² 455 psi		
Blade circuit (raise, lower)	21.6 MPa 220 kgf/cm ² 3,133 psi		
Hydraulic cylinders (Number of cylinders – bore x stroke x rod diameter)			
Boom	1-90 mm x 691 mm x 50 mm	3.54" x 27.2" x 1.97"	
Arm	(PC45MR-5) 1-80 mm x 649 mm x 50 mm	3.14" x 25.6" x 1.97"	
	(PC55MR-5) 1-85 mm x 733 mm x 55 mm	3.35" x 28.9" x 2.17"	
Bucket	(PC45MR-5) 1-70 mm x 580 mm x 45 mm	2.76" x 22.8" x 1.77"	
	(PC55MR-5) 1-75 mm x 580 mm x 50 mm	2.95" x 22.8" x 1.97"	
Boom swing	(PC45MR-5) 1-90 mm x 630 mm x 50 mm	3.54" x 24.8" x 1.97"	
	(PC55MR-5) 1-95 mm x 630 mm x 50 mm	3.74" x 24.8" x 1.97"	
Blade	1-110 mm x 140 mm x 45 mm	4.33" x 5.5" x 1.97"	

Drives and brakes

Steering control		Two levers with pedals	
Drive method		Hydrostatic	
Maximum drawbar pull		42 kN 4,280 kgf 9,436 lbf.	
Max digging force			
	PC45MR-5	3,460 kgf 7,621 lbf.	
	PC55MR-5	3,980 kgf 8,768 lbf.	
Gradeability		30°	
Maximum travel speed (rubber)			
	High	4.6 km/h 2.9 mph	
	(Auto-shift) Low	2.6 km/h 1.6 mph	
Service brake		Hydraulic lock	
Parking brake		Mechanical disc	

Swing system

Drive method	Hydrostatic
Swing reduction	Planetary gear
Swing circle lubrication	Grease-bathed
Swing brake	Hydraulic lock
Swing lock	Mechanical disc brake
Swing speed	9 rpm

Undercarriage

Center frame	X-frame
Track frame	Box-section
Track type	Sealed
Track adjuster	Hydraulic
Number of shoes (each side)	39
Number of carrier rollers (each side)	1
Number of track rollers (each side)	4

Coolant and lubricant capacity (refilling)

Fuel tank	65 L	17.2 U.S. gal
Coolant	8.9 L	2.4 U.S. gal
Engine	8.1 (7.5) L	2.2 (2.0) U.S. gal
Final drive (each side)	0.7 L	0.2 U.S. gal
Hydraulic tank	55 (20) L	14.5 (5.3) U.S. gal

Operating weight (approximate)

Operating weight including 2,640 mm 8'8" (PC45MR-5), 2,900 mm 9'6" (PC55MR-5) one-piece boom, 1,695 mm 5'7" (PC45MR-5), 1,640 mm 5'5" (PC55MR-5) arm, SAE heaped 0.14 m³ 0.18 yd³ (PC45MR-5), 0.16 m³ 0.21 yd³ (PC55MR-5) bucket, blade, rated capacity of lubricants, coolant, full fuel tank, operator and standard equipment.

PC45MR-5			
ROPS canopy, rubber belt track 400 mm 16"		ROPS cab, rubber belt track 400 mm 16"	
Operating weight	Ground pressure ISO 16754	Operating weight	Ground pressure ISO 16754
4,870 kg 10,737 lbs.	27.4 kPa 0.28 kg/cm ² 3.98 psi	4,990 kg 11,001 lbs.	28.0 kPa 0.29 kg/cm ² 4.07 psi
PC55MR-5			
ROPS canopy, rubber shoe rubber belt track 400 mm 16"		ROPS cab, rubber shoe rubber belt track 400 mm 16"	
Operating weight	Ground pressure ISO 16754	Operating weight	Ground pressure ISO 16754
5,150 kg 11,354 lbs.	28.9 kPa 0.29 kg/cm ² 4.12 psi	5,270 kg 11,618 lbs.	29.6 kPa 0.30 kg/cm ² 4.29 psi
Component weights			
		PC45MR-5	PC55MR-5
400 mm 16" Steel tracks		+105 kg 231 lbs.	+105 kg 231 lbs.
400 mm 16" Road liner tracks		+125 kg 275 lbs.	+125 kg 275 lbs.

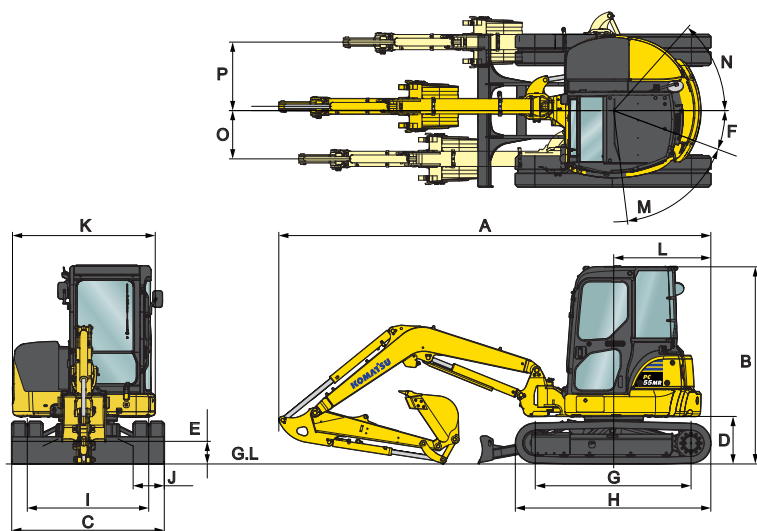
Blade

Width x height (standard blade)	
PC45MR-5	1,960 mm x 355 mm 6'5" x 1'2"
PC55MR-5	1,960 mm x 355 mm 6'5" x 1'2"

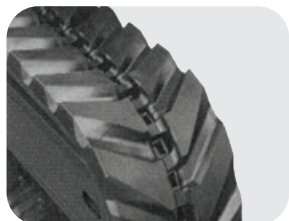
Dimensions

	PC45MR-5		PC55MR-5	
Boom length	2640 mm	8'8"	2900 mm	9'6"
Arm length	1695 mm	5'7"	1640 mm	5'5"
A Overall length	5330 mm	17'6"	5550 mm	18'3"
B Overall height	2550 mm	8'4"	2550 mm	8'4"
C Overall width	1960 mm	6'5"	1960 mm	6'5"
D Ground clearance, counterweight	610 mm	2'0"	610 mm	2'0"
E Ground clearance (minimum)	290 mm	11"	290 mm	11"
F Tail swing radius	1040 mm	3'5"	1120 mm	3'8"
G Track length on ground	2000 mm	6'7"	2000 mm	6'7"
H Track length	2520 mm	8'3"	2520 mm	8'3"
I Track gauge	1560 mm	5'1"	1560 mm	5'1"
J Shoe width	400 mm	1'4"	400 mm	1'4"
K Machine upper width	1835 mm	6'0"	1835 mm	6'0"
L Distance, swing center to end of tracks	1265 mm	4'2"	1265 mm	4'2"
M/N Boom swing angle degrees	LH85°/RH50°		LH85°/RH50°	
O Bucket offset LH	630 mm	2'1"	630 mm	2'1"
P Bucket offset RH	880 mm	2'11"	880 mm	2'11"

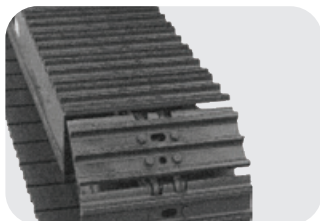
With rubber shoe



Three track versions available



Rubber belt track



Steel

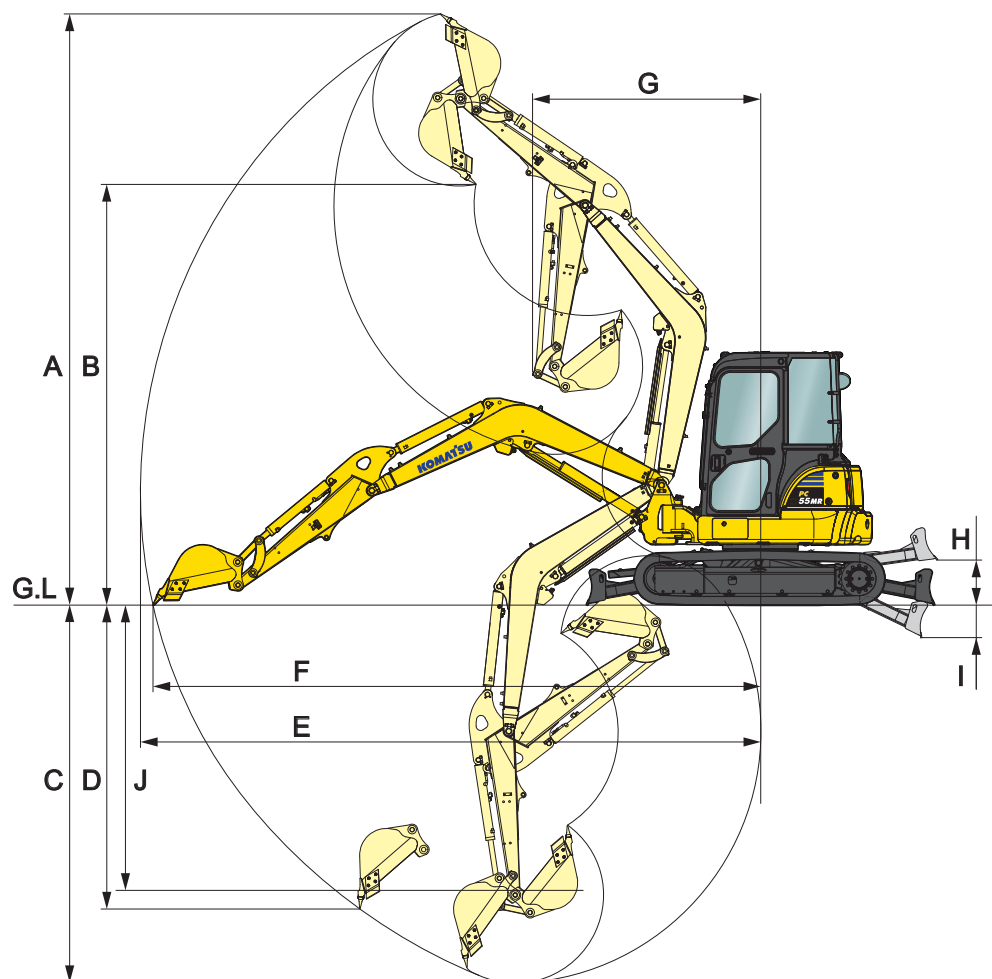


Roadliner



General specification

Working range



		PC45MR-5		PC55MR-5	
Boom length		2640 mm	8'8"	2900 mm	9'6"
Arm length		1695 mm	5'7"	1640 mm	5'5"
A	Maximum digging height	5405 mm	17'9"	5575 mm	18'4"
B	Maximum dumping height	3705 mm	12'2"	3890 mm	12'9"
C	Maximum digging depth	3625 mm	11'11"	3770 mm	12'4"
D	Maximum vertical wall digging depth	3070 mm	10'1"	3030 mm	9'11"
E	Maximum digging reach	6040 mm	19'10"	6220 mm	20'5"
F	Maximum digging reach at ground	5895 mm	19'4"	6075 mm	19'11"
G	Minimum swing radius (boom straight ahead)	2465 mm	8'1"	2520 mm	8'3"
	Minimum swing radius (boom articulated)	1905 mm	6'3"	1930 mm	6'4"
H	Maximum blade lift	430 mm	1'5"	430 mm	1'5"
I	Maximum blade depth	330 mm	1'1"	330 mm	1'1"
J	Maximum digging depth of cut for 2,440 mm 8' level floor	3,235 mm	10'7"	3,295 mm	10'8"
ISO 6015 rating	Bucket digging force	33.9 kN 3,460 kg 7,628 lbs.		39.0 kN 3,980 kg 8,774 lbs.	
	Arm crowd force	20.3 kN 2,070 kg 4,564 lbs.		23.9 kN 2,440 kg 5,379 lbs.	

With rubber belt tracks

Lifting capacity with lifting mode: PC45MR-5

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

- Conditions:
 • Boom length: 2,640 mm 8' 8"
 • Arm length: 1,695 mm 5' 7"
 • Bucket: 0.14 m³ 4.94 ft³ SAE heaped
 • Bucket weight: 109 kg 240 lbs.
 • Shoe: 400 mm 16"

- Rubber belt tracks
- Blade on ground

Unit: kg lbs.

B \ A	2.0 m 6.5'		3.0 m 10'		☉ Max	
	Cf	Cs	Cf	Cs	Cf	Cs
3.0 m					745	465
10'					1640	1025
2.0 m			1150	1100	755	425
6.5'			2535	2425	1660	935
1.0 m			1655	1010	620	405
3.25'			3645	2225	1365	890
0 m	1420	1420	2295	950	960	415
0'	3130	3130	5060	2090	2115	910
-1.0 m	2430	1805	2350	930	1170	475
-3.25'	5355	3975	5180	2050	2575	1045

*Asterisk indicates load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated load capacity does not exceed 87% of hydraulic lift capacity or 75% of tipping load. Lift capacities shown above are with the specified bucket installed. Different installed attachments will change the stated lift capacities by the net difference in attachment weights. Lift capacity chart is based on machine located on a solid, level and uniform surface. Load ratings are at the arm bucket pin location, use of any attachment point in a different location to handle objects could affect excavator lift performance.

Lifting capacity with lifting mode: PC55MR-5

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

- Conditions:
 • Boom length: 2,900 mm 9' 6"
 • Arm length: 1,640 mm 5' 5"
 • Bucket: 0.16 m³ 5.65 ft³ SAE heaped
 • Bucket weight: 109 kg 240 lbs.
 • Shoe: 400 mm 16"

- Rubber belt tracks
- Blade on ground

Unit: kg lbs.

B \ A	2.0 m 6.5'		3.0 m 10'		☉ Max	
	Cf	Cs	Cf	Cs	Cf	Cs
3.0 m					850	520
10'					1870	1145
2.0 m			1330	1205	890	455
6.5'			2930	2655	1960	1000
1.0 m			1975	1095	945	435
3.25'			4350	2410	2080	955
0 m	1530	1530	2290	1040	1005	445
0'	3370	3370	5045	2290	2215	980
-1.0 m	2750	2000	2270	1030	1085	500
-3.25'	6060	4405	5000	2270	2390	1100

*Asterisk indicates load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated load capacity does not exceed 87% of hydraulic lift capacity or 75% of tipping load. Lift capacities shown above are with the specified bucket installed. Different installed attachments will change the stated lift capacities by the net difference in attachment weights. Lift capacity chart is based on machine located on a solid, level and uniform surface. Load ratings are at the arm bucket pin location, use of any attachment point in a different location to handle objects could affect excavator lift performance.



Equipment

Engine

Air cleaner, double element with auto dust evacuator	•
B20 biodiesel fuel lines	•
Cooling fan, suction type	•
Side-by-side cooling package	•

Electrical system

Alternator, 12 V/55 A	•
Auto-decelerator	•
Battery, 1 x 12 V/72 Ah	•
Starting motor 12 V/2.3 kW	•
Working light on boom	•
Working light on cab or canopy	•

Hydraulic system

Auxiliary hydraulics with selector valve	•
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Guards and covers

Fan guard	•
Thermal guard	•

Undercarriage

Shoe, 400 mm 16" rubber belt track	•
Road Liner track, 400 mm 16"	○
Steel track, 400 mm 16"	○

Operator environment

12 V x 1 power supply	•
Automatic two-speed travel control	•
Foot operated auxiliary control	•
Foot operated swing boom control	•
Lock lever auto lock function	•
Monitor panel, 3.5" color display	•
Operator identification function	•
Rear view mirrors (RH, LH, rear)	•
Retractable seat belt, 76 mm 3"	•
Suspension seat (mid height)	•
Travel alarm	•
Travel lamp	•
Two-post ROPS (ISO 3471) canopy	•
Cab with hinged door, air conditioner, radio ready, auxiliary input (3.5 mm jack) ready	○
Proportional control joysticks	○
Level 1 mesh front screen (cab only)	○
Level 1 mesh front screen field installation kit (cab only)	○

Other equipment

Auto idle shutdown function	•
Komtrax level 5 - cellular based	•
Swing holding brake	•

Work equipment

Arms	•
1,695 mm 5'7" arm assembly with piping (PC45MR-5)	
1,640 mm 5'5" arm assembly with piping (PC35MR-5)	
Backfill blade	•
Hydraulic angle blade	○
Booms	•
2,640 mm 8'8" boom assembly with piping (PC45MR-5)	
2,900 mm 9'6" boom assembly with piping (PC55MR-5)	
Hydraulic breaker	○
Mechanical quick coupler	○
Wide variety of attachments	○



Ditching grading bucket



Pavement removal bucket



Hydraulic thumb



Coupler



Coral rock bucket



Cemetery/bellhole bucket



Heavy-duty bucket



Tilting D-G bucket

For a complete list of available attachments, please contact your local Komatsu distributor. Komatsu program items shown. Distributor attachments may vary.

Standard equipment	•
Optional equipment	○

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