

Specifications PC80MR-5E0

ENGINE

Model	Komatsu 4D98E-5SFB
Type	Water-cooled, 4-cycle direct injection
Engine power	
at rated engine speed	2.200 rpm
ISO 14396	46,2 kW / 62 HP
ISO 9249 (net engine power)	44,2 kW / 59 HP
No. of cylinders	4
Bore × stroke	98 × 110 mm
Displacement	3.319 cm³
Max. torque / engine speed	235 Nm / 1.400 rpm
Air filter type	Dry
Fuel	Diesel fuel, conforming to EN590 Class 2/Grade D. Paraffinic fuel capability (HVO, GTL, BTL), conforming to EN 15940:2016

HYDRAULIC SYSTEM

Type	Komatsu CLSS
Main pumps	
Pump for	Boom, arm, bucket and travel
Type	Variable displacement, axial piston
Maximum pump flow	178 l/min
Max. operating pressure	26,5 MPa (270 bar)
Pump for	Swing and blade
Type	Fixed displacement gear pump
Maximum pump flow	72 l/min
Max. operating pressure	20 MPa (204 bar)
Auxiliary hydraulic flow (optional)	125 l/min
Relief valve setting	
Swing and blade	20 MPa (204 kg/cm²)
Travel and work equipment	26,5 MPa (270 kg/cm²)
Bucket digging force (ISO 6015)	5.855 daN (5.970 kgf)
Arm crowd force (ISO 6015)	3.913 daN (3.990 kgf)

OPERATING WEIGHT (APPR.)

	Mono boom	Two-piece boom
Steel shoes	8.090 kg	8.270 kg
Rubber shoes	8.000 kg	8.180 kg
Roadliner shoes	8.070 kg	8.250 kg

Operating weight, including 1.650 mm arm, 0,20 m³ bucket (ISO 7451), blade, operator, liquids, filled tank and standard equipment (ISO 6016).

BUCKET RANGE

Bucket capacity	0,128 m³	0,171 m³	0,2 m³	0,232 m³	0,265 m³
Bucket width	400 mm	500 mm	600 mm	700 mm	800 mm
Bucket weight	130 kg	142 kg	155 kg	168 kg	180 kg

DRIVES AND BRAKES

Steering control	2 levers with pedals giving full independent control of each track
Drive method	Hydrostatic
Hydraulic motors	Variable displacement, axial piston
Parking brake	Mechanical discs
Max. travel speeds	
Lo / Hi	2,9 / 4,9 km/h
Maximum drawbar pull	7.279 daN (7.420 kgf)

UNDERCARRIAGE

Construction	X-frame centre section with box section track frames
Rollers	
Track rollers (each side)	5
Carrier rollers (each side)	1
Shoes (each side)	39
Shoe width	450 mm
Ground pressure (standard)	0,36 kg/cm²

SWING SYSTEM

Driven by	Hydraulic motor
Swing reduction gear	Double epicyclic reduction
Swing circle lubrication	Grease-bathed
Swing brakes	Automatic, with oil immersed discs
Swing speed	10,0 rpm

BLADE

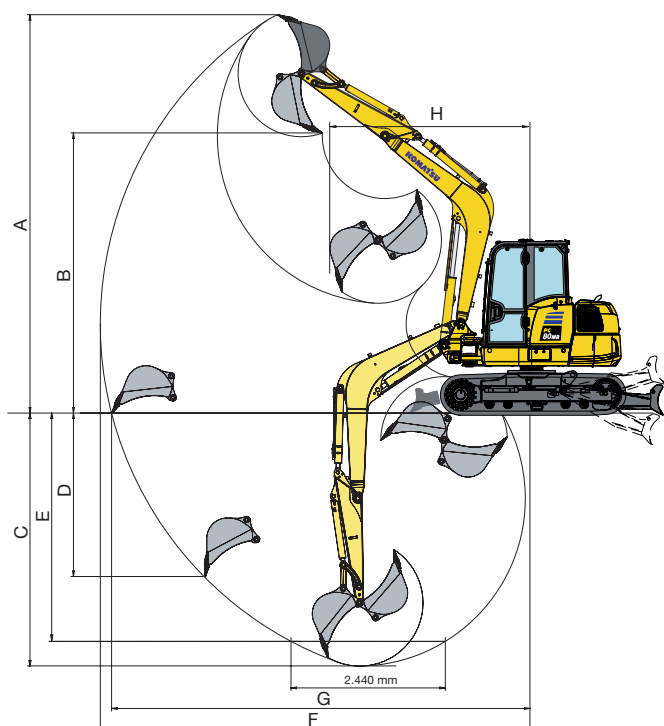
Width × height	2.250 × 464 mm
Blade, max. lifting height	473 mm
Blade, max. digging depth	470 mm

SERVICE REFILL CAPACITIES

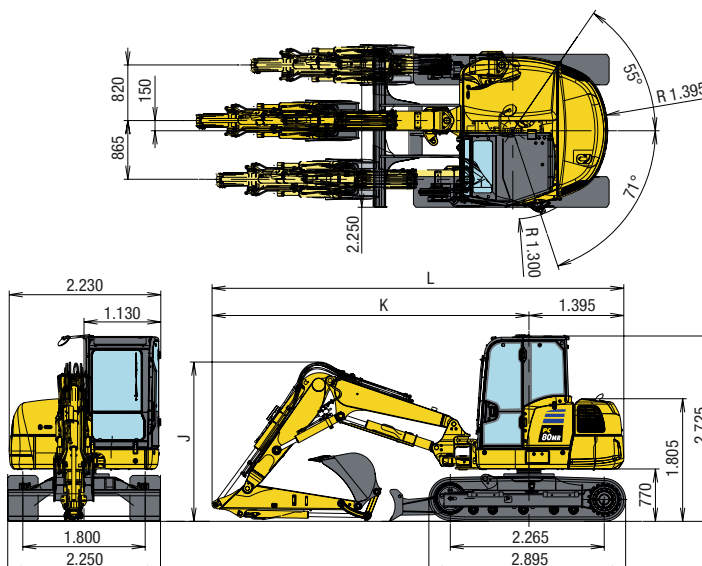
Fuel tank	110 l
Radiator	11,6 l
Engine oil	9,0 l
Hydraulic oil tank	65 l

ENVIRONMENT

Engine emissions	Fully complies with EU Stage V exhaust emission regulations
Noise levels	
LwA external	98 dB(A) (2000/14/EC Stage II)
LpA operator ear	73 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)	
Hand/arm	≤ 2,5 m/s² (uncertainty K = 1,2 m/s²)
Body	≤ 0,5 m/s² (uncertainty K = 0,2 m/s²)
Contains fluorinated greenhouse gas HFC-134a (GWP 1430). Quantity of gas 1,1 kg, CO₂ equivalent 1,57 t.	


MONO BOOM
TWO-PIECE BOOM

	Arm length 1.650 mm	Arm length 2.000 mm	Arm length 1.650 mm	Arm length 2.000 mm
J	2.210 mm	2.620 mm	2.345 mm	2.565 mm
K	4.665 mm	4.865 mm	4.660 mm	4.900 mm
L	6.060 mm	6.260 mm	6.055 mm	6.295 mm


WORKING RANGE

	MONO BOOM	TWO-PIECE BOOM
Arm length	1.650 mm	2.000 mm
A Max. digging height	6.315 mm	7.585 mm
B Max. dumping height	4.390 mm	5.600 mm
C Max. digging depth	3.975 mm	3.980 mm
D Max. vertical wall digging depth	2.885 mm	3.140 mm
E Max. digging depth of cut for 2,44 m level	3.620 mm	3.820 mm
F Max. digging reach	6.775 mm	7.380 mm
G Max. digging reach at ground level	6.595 mm	7.215 mm
H Min. swing radius (at max. boom swing)	2.730 (1.925) mm	2.565 (1.755) mm

LIFTING CAPACITIES
Mono boom, blade up, 151 kg bucket

Arm length	A	Max.	5,0 m	4,0 m	3,0 m
B					
1.650 mm	4,5 m kg	1.360	1.070		
	3,0 m kg	1.010	780	1.270	990 *1.533 1.470
	1,5 m kg	910	690	1.200	930 1.710 1.330 2.700 2.080
	0,0 m kg	940	710	1.150	880 1.610 1.240 2.550 1.930
	- 1,5 m kg	1.170	890		1.600 1.020 2.550 1.940
	- 3,0 m kg	*1.970	*1.970		*1.980 *1.980
2.000 mm	4,5 m kg	1.170	920	1.139	1.030
	3,0 m kg	900	620	1.280	1.000
	1,5 m kg	820	620	1.210	930 1.730 1.350 2.770 2.140
	0,0 m kg	840	568	1.140	812 1.610 1.230 2.275 1.728
	- 1,5 m kg	1.000	685	1.110	794 1.570 1.200 2.248 1.701
	- 3,0 m kg	1.770	1.226		2.328 1.773

A Reach from swing centre

B Bucket hook height



Rating over front



Rating over side

Ratings are based on ISO standard 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Excavators used in object handling operations must comply with the related local regulations and must be equipped with hose burst valves (boom & arm) and an overload warning device in compliance with EN474-5.

- The values marked with an asterisk (*) are limited by the hydraulic capacities.

- Calculations are based on the machine resting on a uniform and firm surface.

- The lifting point is a hypothetical hook placed behind the bucket.

Two-piece boom, blade up, 151 kg bucket

Arm length	A	Max.	5,0 m	4,0 m	3,0 m
B					
1.650 mm	4,5 m kg	818	608	1.103	896 *1.103 1.354
	3,0 m kg	630	473	983	795 1.504 1.223 2.860 2.210
	1,5 m kg	555	375	885	656 1.260 1.005
	0,0 m kg	584	406	860	651 1.279 950 *1.960 1.660
	- 1,5 m kg	701	496	860	651 1.288 950 2.320 1.700
	- 3,0 m kg				459 *461
2.000 mm	4,5 m kg	465	630	*1.550	980 *1.720 1.510
	3,0 m kg	341	490	*1.710	920 *2.100 1.380 *2.250 *2.250
	1,5 m kg	296	430	*1.930	810 *2.640 1.170
	0,0 m kg	322	440	*1.847	730 *2.185 1.040 *1.990 1.630
	- 1,5 m kg	380	530	*1.519	720 *1.766 1.020 *2.950 1.660
	- 3,0 m kg	270	*520		*806 *1.000 *1.240 *1.240

Lifting capacities, including bucket, bucket linkage and bucket cylinder

Standard and Optional Equipment

ENGINE

Komatsu 4D98E-5SFB water-cooled, 4-cycle direct injection diesel engine	●
EU Stage V compliant	●
Diesel Particulate Filter (DPF)	●
Fuel control dial	●
Auto-deceleration function	●
Auto idle shutdown	●
Alternator 12 V / 80 A	●
Starter motor 12 V / 3,0 kW	●
Battery 12 V / 110 Ah	●

HYDRAULIC SYSTEM

6-working mode selection system; power mode, economy mode, breaker mode, attachment power and attachment economy mode, and lifting mode	●
Adjustable PPC wrist control levers for arm, boom, bucket and swing, with proportional control for attachments	●
PPC control lever and pedals for steering and travel	●
Hydraulic line for hammer and for 2-way equipment up to boom and arm, including preparation for hydraulic quick-coupler (HCU-B)	●
Change-over valve on bucket cylinder for clamshell bucket utilization	●
Automatic two-speed travel control	●
Relief valves on service spool	●
2nd auxiliary hydraulic circuit (HCU-D)	○
3rd auxiliary circuit for hydraulic Powertilt	○

UNDERCARRIAGE

450 mm rubber shoes	●
Track roller guard (not with rubber shoes)	●
450 mm roadliner shoes	○
450 mm steel shoes	○

CABIN

ROPS (ISO 3471) / OPG (ISO 10262) level 1 cab with skylight, pull-up type front window with locking device, lower window, front window wiper with intermittent feature, floor mat	●
Adjustable suspension seat with seat belt	●
Monitor panel 3,5" colour display	●
12 Volt power supply	●
Beverage holder and magazine rack	●
Air conditioning	●
Radio equipment	●
Radio	○

SERVICE AND MAINTENANCE

Multi-function video compatible colour monitor with Equipment Management and Monitoring System (EMMS) and efficiency guidance	●
Battery main switch	●
KOMTRAX – Komatsu wireless monitoring system (3G)	●

WORK EQUIPMENT

Mono boom (3.200 mm)	●
Boom cylinder protection guard	●
1.650 mm digging arm	●
Blade	●
Blade cylinder safety guard	●
Protection for boom safety valve	●
Protection for arm safety valve	●
Two-piece boom (2.240 - 4.030 mm)	○
2.000 mm digging arm	○

SAFETY EQUIPMENT

Travel acoustic alarm	●
Electric horn	●
Rear-view mirrors (left and right side, right rear)	●
Hose burst valves on boom and arm cylinders	●
Overload warning device	●
Emergency engine stop switch	●
Neutral position detection system	●
Seat belt caution indicator	●
Rotating beacon	●
Bucket linkage with lifting eye	○

LIGHTING SYSTEM

Working light on boom	●
Two front working lights on cab	●
Rear working light on cab	●
LED working lights	○
Additional working light on boom	○
Additional LED working light on boom	○

OTHER EQUIPMENT

Standard colour scheme and decals	●
Parts book and operator manual	●
Electric refuelling pump with automatic shut-off function	●
Track frame undercover	○
Special waxing	○

ATTACHMENTS

Bucket range (400 - 800 mm)	○
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The PC80MR-5 is equipped in accordance with the safety regulations of the machinery guidelines 89/392 EWG ff and EN474.

- standard equipment
- optional equipment

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