

KOMATSU PC 50MR-2

ENGINE

The new generation engine has been developed to comply with the strictest emission controls (STAGE 2).

Model.....Komatsu 4D88E-5
 Type..... emissionised 4-cycle diesel engine
 Displacement.....2,189 cm³
 Bore x stroke.....88 x 90 mm
 No. of cylinders.....4
 Combustion.....direct injection
 Aspiration.....natural
 Engine power
 at rated engine speed.....2,350 rpm
 ISO 14396.....30,3 kW / 40,6 HP
 SAE J1349.....29,4 kW / 39,4 HP
 Max. torque/engine speed.....139 Nm @ 1.440 rpm
 Cooling system.....water
 Air filter type.....dry
 Starting.....electric motor with pre-heating air system for cold climate

OPERATING WEIGHT

Operating weight with standard bucket, fully serviced, +75 kg operator (ISO 6016).
 Operating weight with cab and rubber shoes.....4.940 kg
 Operating weight with cab and steel shoes.....5.005 kg
 Canopy.....-175 kg (optional)
 Additional counterweight.....+250 kg

HYDRAULIC SYSTEM

Type.....Komatsu CLSS
 Main pumps.....2 variable displacement pumps
 + 1 gear pump
 Max. pump flow.....51 x 2 = 32 ltr/min
 Max operating pressure:
 Working equipment.....27 MPa (270 bar)
 Hydraulic motors:
 Travel.....2 x variable displacement
 Swing.....1 x fixed displacement
 Hydraulic cylinders (bore x stroke):
 Boom.....90 x 697 mm
 Arm.....85 x 734 mm
 Bucket.....75 x 580 mm
 Boom swing.....95 x 630 mm
 Blade.....110 x 140 mm
 Bucket breakout force (ISO 6015).....3.903 daN (3.980 kg)
 Arm crowd force (ISO 6015):
 1.640 mm arm.....2.471 daN (2.520 kg)
 2.000 mm arm.....2.157 daN (2.200 kg)
 The digging equipment is fully controlled by PPC servo-controls. All movements are stopped by lifting the safety levers on the tiltable case.

SWING SYSTEM

The rotation is operated by means of an orbital hydraulic motor. Single ball-bearing ring with internal, induction hardened toothing. Centralised lubrication of the unit.
 Swing speed.....9,0 rpm

TRANSMISSION

Type.....2 speed hydrostatic transmission, controlled and steered by means of two levers and two pedals
 Hydraulic motors.....2 x axial pistons
 Reduction system.....epicyclic reduction gears
 Max. drawbar pull.....4.197 daN (4.280 kgf)
 Travel speed.....2,8 - 4,6 km/h

BLADE

Type.....electro-welded, single unit structure
 Width x height.....1.960 x 355 mm
 Max. lifting above ground level.....430 mm
 Max. depth below ground level.....330 mm

UNDERCARRIAGE

Central lower casted X-frame and carriage frame with boxed section.
 Shoes (each side).....39
 Track rollers (each side).....4
 Shoe width.....400 mm
 Ground pressure (standard).....0,29 kg/cm²

ELECTRIC SYSTEM

Voltage.....12 V
 Battery.....72 Ah
 Alternator.....40 A
 Starter motor.....2,3 kW

SERVICE CAPACITIES

Fuel tank.....65 ltr
 Radiator and system.....7,3 ltr
 Engine oil.....7,4 ltr
 Hydraulic system.....55 ltr

Machine with Cab, Steel Shoes, Additional Counterweight and Blade at Ground Level

A - Distance from machine's center B - Height at bucket pin.

Arm length 1.640 mm							
A \ B	2 m		3 m		4 m		Max. outreach
	Front.	360°	Front.	360°	Front.	360°	
3 m	/	/	/	/	(*) 805	(*) 805	(*) 835 590
2 m	/	/	(*) 1.330	(*) 1.330	(*) 1.025	860	(*) 880 525
1 m	/	/	(*) 1.995	1.295	(*) 1.295	840	(*) 935 505
0 m	(*) 1.590	(*) 1.590	(*) 2.325	1.240	(*) 1.480	810	(*) 1.005 520
-1 m	(*) 2.755	2.410	(*) 2.305	1.230	(*) 1.505	800	(*) 1.090 590
-2 m	(*) 3.480	2.455	(*) 1.980	1.245	(*) 1.275	810	(*) 1.190 770

Unit: kcf

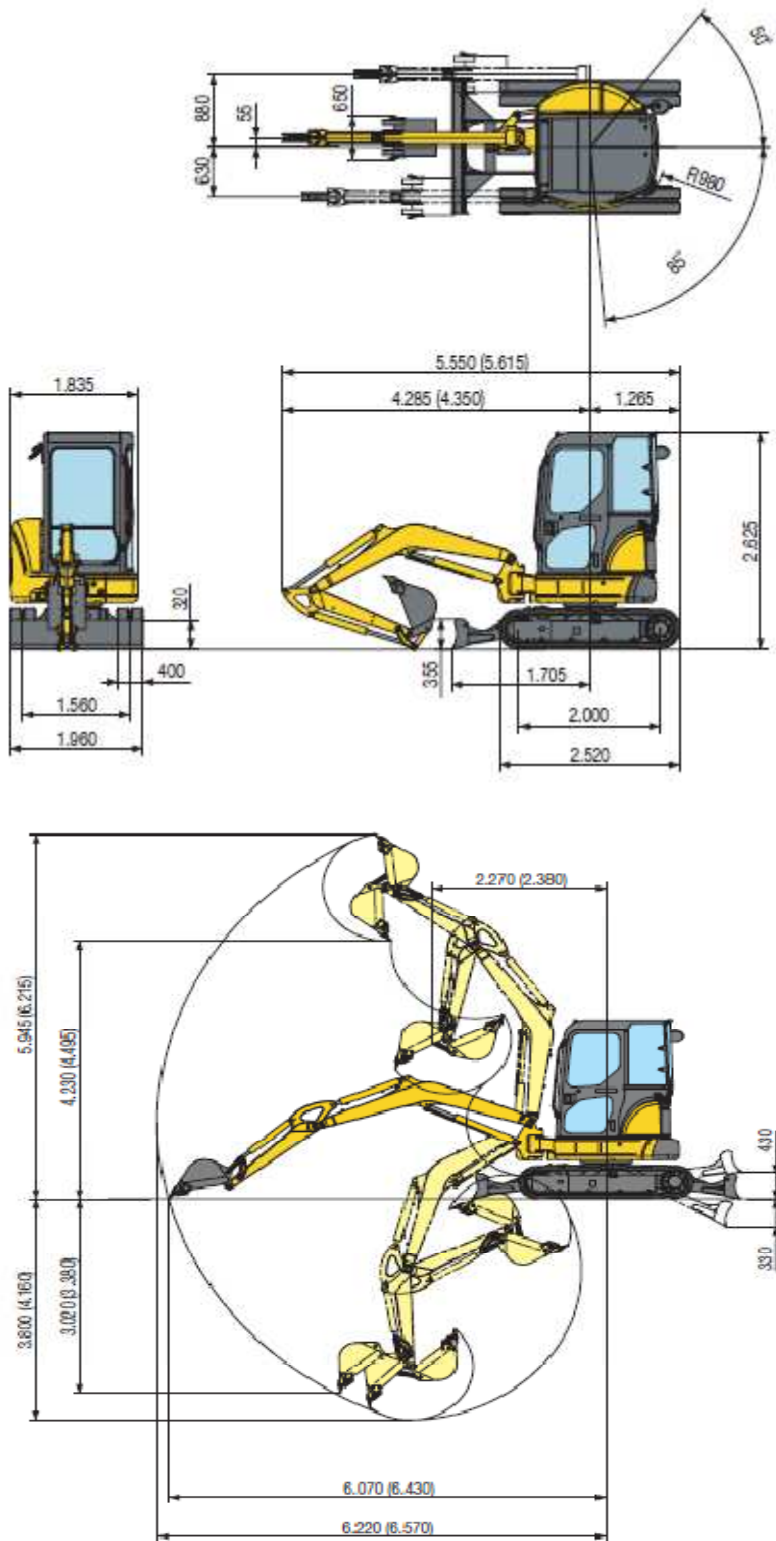
Arm length 2.000 mm							
A \ B	2 m		3 m		4 m		Max. outreach
	Front.	360°	Front.	360°	Front.	360°	
3 m	/	/	/	/	(*) 850	(*) 850	(*) 740 515
2 m	/	/	(*) 1.035	(*) 1.035	(*) 890	(*) 890	(*) 785 460
1 m	/	/	(*) 1.725	1.285	(*) 1.175	840	(*) 835 445
0 m	(*) 1.525	(*) 1.525	(*) 2.220	1.235	(*) 1.405	800	(*) 895 455
-1 m	(*) 2.375	2.365	(*) 2.320	1.210	(*) 1.500	780	(*) 970 505
-2 m	(*) 3.590	2.400	(*) 2.125	1.215	(*) 1.385	785	(*) 1.060 630

Unit: kgf

WINNER PLANT

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