

Specifications

ENGINE

The new generation engine has been developed to comply with the strictest emission controls.

Model	Komatsu 3D67E
Type	emissionised 4-cycle diesel engine
Displacement.....	778 cm ³
No. of cylinders	3
Engine power	
at rated engine speed.....	2.600 rpm
ISO 14396	11,6 kW/15,6 HP
ISO 9249 (net engine power)	11,2 kW/15,0 HP
Max. torque/engine speed	45,6 Nm/2.000 rpm
Cooling system.....	water
Air filter type	dry
Starter motor	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 rubber shoes	1.440 kg
Operating weight with steel shoes	1.510 kg
Heated cab weight	+120 kg (optional)
Variable undercarriage.....	+170 kg

HYDRAULIC SYSTEM

Type	Komatsu CLSS
Main pump	1 × gear pump
Max. pump flow.....	40,8 ltr/min
Max. operating pressure	19 MPa (190 bar)
Bucket digging force (ISO 6015)	1.190 daN (1.210 kg)
Arm crowd force (ISO 6015):	
880 mm arm.....	740 daN (750 kg)
1.130 mm arm.....	575 daN (585 kg)

The digging equipment is fully controlled by PPC servo-controls. All movements are stopped by lifting the safety lever on the tilting case.

TRANSMISSION

Type	single speed hydrostatic transmission, controlled and steered by means of two levers or two pedals
Hydraulic motors	2 × axial pistons
Reduction system.....	planetary gear
Max. drawbar pull.....	1.230 daN (1.250 kgf)
Travel speed	2 km/h

SWING SYSTEM

The rotation is operated by means of an orbital hydraulic motor. Single ball-bearing ring with internal, induction hardened toothring. Centralised lubrication of the unit.

Swing speed.....	8,9 rpm
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BLADE

Type	electro-welded, single unit structure with extensions
Width × height	1.020 × 250 mm
Max. lifting above ground level	175 mm
Max. depth below ground level	155 mm

UNDERCARRIAGE

Track rollers (each side).....	3
Shoe width	230 mm
Ground pressure (standard).....	0,27 kg/cm ²

ELECTRIC SYSTEM

Voltage.....	12 V
Battery	41 Ah
Alternator.....	40 A
Starter motor	1,2 kW

SERVICE CAPACITIES

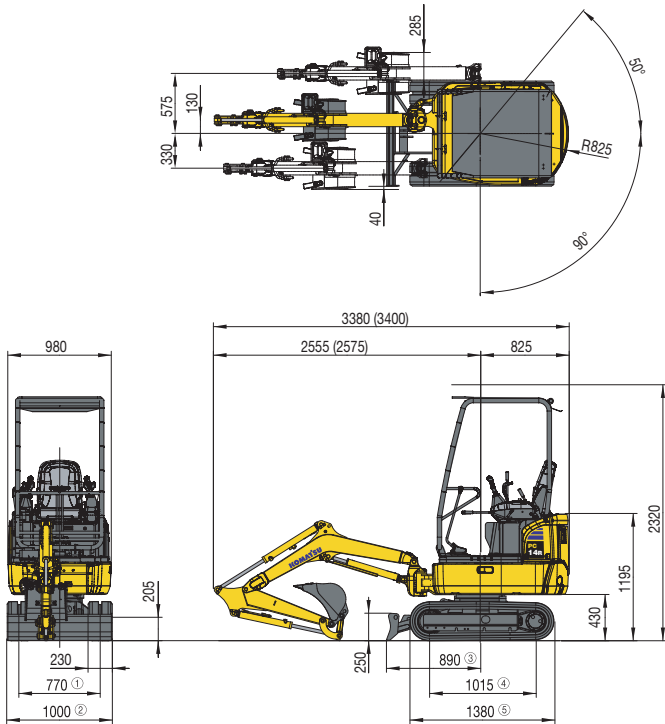
Fuel tank.....	19 ltr
Radiator and system	3,1 ltr
Engine oil (refill)	3,3 ltr
Hydraulic system (refill)	1,2 ltr

ENVIRONMENT

Vibration levels (EN 12096:1997)*	
Hand/arm.....	≤ 2,5 m/s ² (uncertainty K = 1,2 m/s ²)
Body	≤ 0,5 m/s ² (uncertainty K = 0,2 m/s ²)

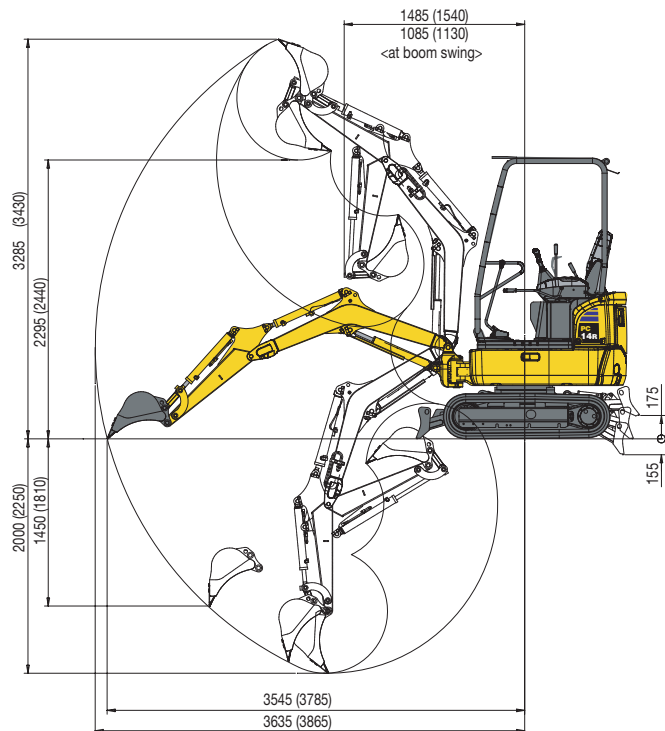
* for the purpose of risk assessment under directive 2002/44/EC, please refer to ISO/TR 25398:2006.

Dimensions & Working Range



HS version:

- ① 750 - 1.070 mm
- ② 980 - 1.300 mm
- ③ 1.145 mm
- ④ 1.212 mm
- ⑤ 1.555 mm



BUCKET RANGE

Width mm	Capacity m ³ (ISO7451)	Weight kg	No. of teeth
250	0,03	19	2
300	0,035	20	3
350	0,04	22	3
400	0,05	23	3
450	0,06	25	4

Canopy, rubber shoes, 350 mm bucket, blade down

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

ARM LENGTH 880 mm

B	A	2 m		2,5 m		Max. outreach	
		Front	360°	Front	360°	Front	360°
2 m	(*)225	(*)225	(*)218	200	(*)220	179	
1 m	(*)353	267	(*)266	192	(*)221	143	
0 m	(*)424	249	(*)299	182	(*)231	147	
-1 m	(*)293	253	-	-	(*)227	215	

Unit: kg

ARM LENGTH 1.130 mm

B	A	2 m		2,5 m		3 m		Max. outreach	
		Front	360°	Front	360°	Front	360°	Front	360°
2 m	-	-	(*)178	(*)178	-	-	(*)184	151	
1 m	(*)302	268	(*)235	190	(*)201	141	(*)189	123	
0 m	(*)413	243	(*)290	177	(*)218	135	(*)200	125	
-1 m	(*)341	242	(*)226	177	-	-	(*)208	170	

Unit: kg

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0 m	(*)424	(*)424	(*)299	(*)299	(*)231	(*)231	
-1 m	(*)293	(*)293	-	-	(*)227	(*)227	

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0 m	(*)413	(*)413	(*)290	(*)290	(*)218	(*)218	(*)200	(*)200	
-1 m	(*)341	(*)341	(*)226	(*)226	-	-	(*)208	(*)208	

Unit: kg

NOTE:

Ratings are based on ISO standard 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

- 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.