

Specifications

ENGINE

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

Model	Komatsu 3D67E-2A
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	44,1 Nm/1.800 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	1.570 kg
Operating weight with steel shoes	1.630 kg
Heated cab weight	+120 kg (optional)
Variable undercarriage.....	+170 kg

HYDRAULIC SYSTEM

Type	Komatsu CLSS
Main pump	1 × variable displacement pump
Max. pump flow.....	40,8 ltr/min
Max. operating pressure	21 MPa (210 bar)
Bucket digging force (ISO 6015)	1.420 daN (1.450 kg)
Arm crowd force (ISO 6015):	
965 mm arm.....	900 daN (920 kg)
1.215 mm arm.....	715 daN (730 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	double 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.....	1.490 daN (1.520 kgf)
Travel speed	2,2 / 4,2 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	280 mm
Max. depth below ground level	155 mm

UNDERCARRIAGE

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

ELECTRIC SYSTEM

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

SERVICE CAPACITIES

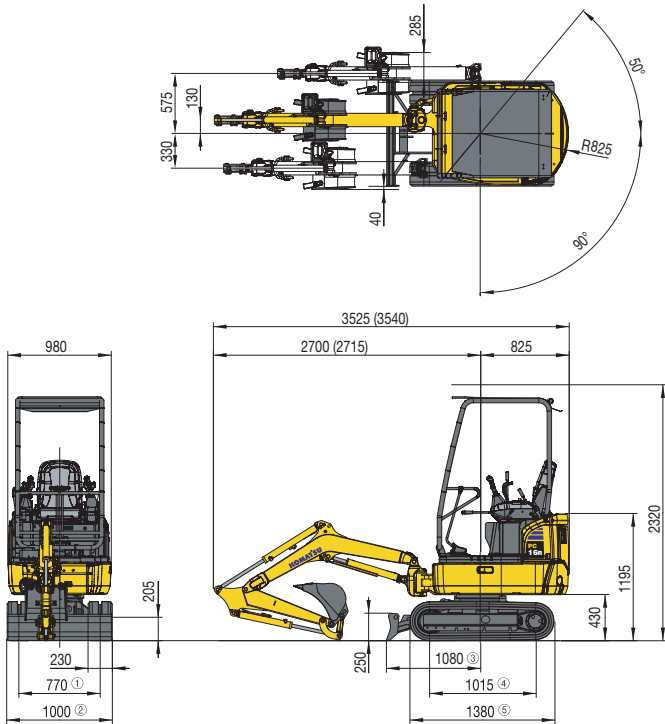
Fuel tank.....	19 ltr
Radiator and system	3,1 ltr
Engine oil (refill)	3,3 ltr
Hydraulic system (refill)	1,2 ltr

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)

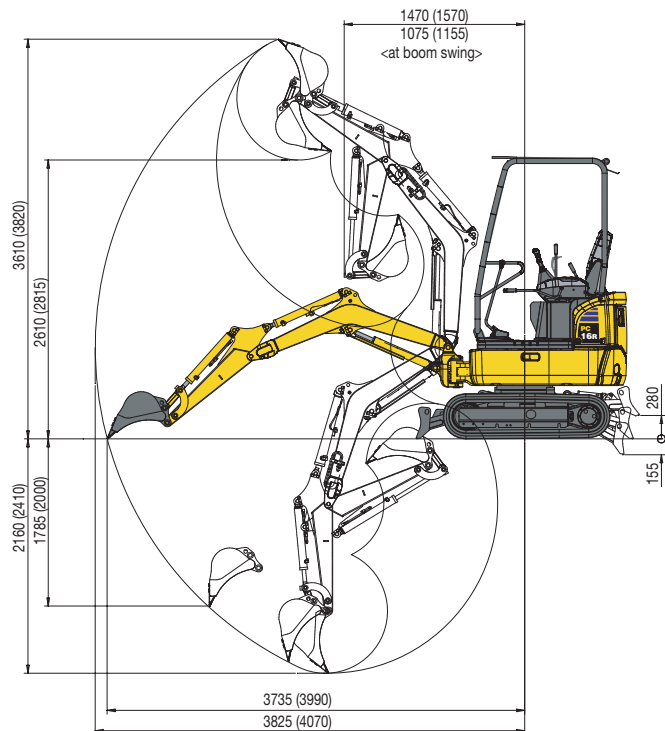
* for the purpose of risk assessment under directive 2002/44/EC, please refer to ISO/TR 25398:2006.

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 (ISO 7451)	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 965 mm

A	2 m		2,5 m		3 m		Max. outreach	
	Front	360°	Front	360°	Front	360°	Front	360°
2 m	(*)286	(*)286	(*)278	230	-	-	(*)279	172
1 m	(*)486	299	(*)364	217	(*)303	163	(*)284	142
0 m	(*)600	278	(*)426	204	(*)324	157	(*)296	146
-1 m	(*)480	281	(*)331	206	-	-	(*)298	196

Unit: kg

ARM LENGTH 1.215 mm

A	2 m		2,5 m		3 m		Max. outreach	
	Front	360°	Front	360°	Front	360°	Front	360°
2 m	-	-	(*)229	(*)229	(*)235	168	(*)242	145
1 m	(*)417	302	(*)324	216	(*)276	161	(*)247	122
0 m	(*)584	273	(*)412	200	(*)317	152	(*)259	125
-1 m	(*)525	271	(*)373	197	-	-	(*)266	159

Unit: kg

Canopy, rubber shoes, 350 mm bucket, blade down, HS version

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

ARM LENGTH 965 mm

A	2 m		2,5 m		3 m		Max. outreach	
	Front	360°	Front	360°	Front	360°	Front	360°
2 m	(*)286	(*)286	(*)278	(*)278	-	-	(*)279	(*)279
1 m	(*)486	(*)486	(*)364	353	(*)303	269	(*)284	237
0 m	(*)600	468	(*)426	340	(*)324	263	(*)296	244
-1 m	(*)480	471	(*)331	(*)331	-	-	(*)298	(*)298

Unit: kg

ARM LENGTH 1.215 mm

A	2 m		2,5 m		3 m		Max. outreach	
	Front	360°	Front	360°	Front	360°	Front	360°
2 m	-	-	(*)229	(*)229	(*)235	(*)235	(*)242	(*)242
1 m	(*)417	(*)417	(*)324	(*)324	(*)276	267	(*)247	209
0 m	(*)584	463	(*)412	336	(*)317	258	(*)259	214
-1 m	(*)525	461	(*)373	333	-	-	(*)266	(*)266

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.