

Specifications

ENGINE

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

Model	Komatsu 3D88E-6
Type	emissionised 4-cycle diesel engine
Displacement.....	1.642 cm ³
Bore × stroke.....	88 × 90 mm
No. of cylinders	3
Engine power	
at rated engine speed	2.400 rpm
ISO 14396	22,0 kW / 29,5 HP
ISO 9249 (net engine power)	21,6 kW / 29,0 HP
Max. torque/engine speed	105,1 Nm/1.440 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 cab and rubber shoes	3.290 kg
Operating weight with cab and steel shoes	3.400 kg
Canopy	-150 kg (optional)

HYDRAULIC SYSTEM

Type	Komatsu CLSS
Main pumps.....	1 variable displacement pump + 1 gear pump
Max. pump flow.....	70 + 19,8 ltr/min
Max. operating pressure	26 MPa (260 bar)

Hydraulic motors:

Travel.....	2 × variable displacement
Swing	1 × fixed displacement

Hydraulic cylinders (bore × stroke):

Boom	80 × 550 mm
Arm	75 × 495 mm
Bucket.....	65 × 490 mm
Boom swing.....	80 × 500 mm
Blade.....	85 × 135 mm

Bucket digging force (ISO 6015)

Arm crowd force (ISO 6015):

1.240 mm arm.....	1.765 daN (1.800 kg)
1.610 mm arm.....	1.491 daN (1.520 kg)

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

ENVIRONMENT

Vibration levels (EN 12096:1997)*

Hand/arm	≤ 2,5 m/s ² (uncertainty K = 0,55 m/s ²)
Body	≤ 0,5 m/s ² (uncertainty K = 0,23 m/s ²)

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

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.....	9,3 rpm
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BLADE

Type

Width × height

Max. lifting above ground level

Max. depth below ground level

UNDERCARRIAGE

Central lower X-frame and carriage frame with boxed section.

Track rollers (each side).....

Shoe width

Ground pressure (standard).....

ELECTRIC SYSTEM

Voltage.....

Battery

Alternator.....

Starter motor

SERVICE CAPACITIES

Fuel tank

Radiator and system

Engine oil (refill)

Hydraulic system.....

TRANSMISSION

Type

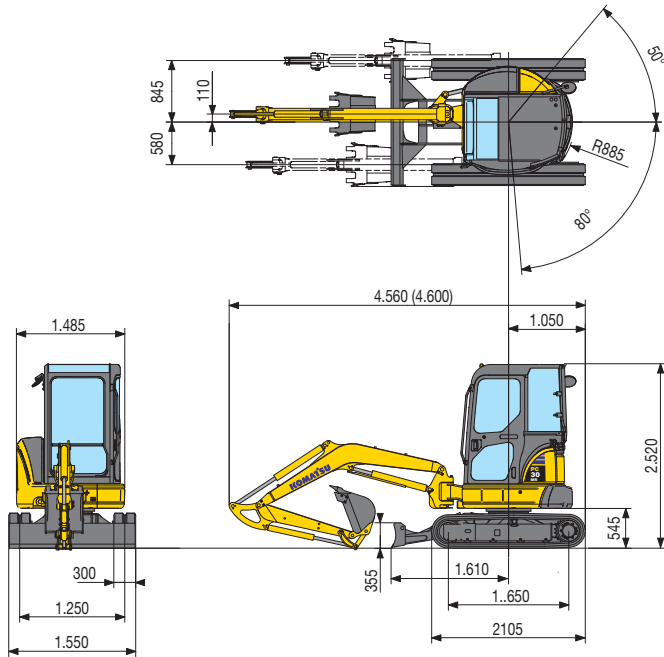
Hydraulic motors

Reduction system.....

Max. drawbar pull.....

Travel speed

Dimensions & Working Range

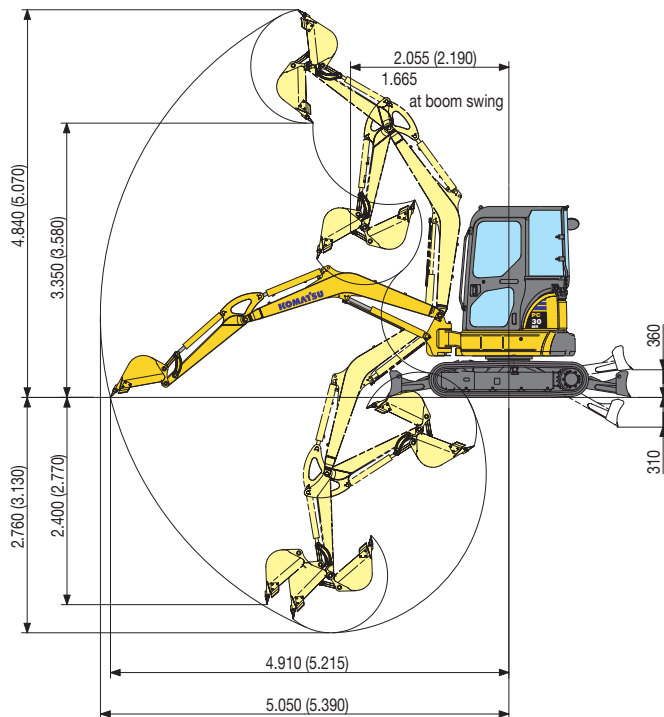


BUCKET RANGE

Width mm	Capacity m ³ (ISO 7451)	Weight kg	No. of teeth
300	0,035	55	2
400	0,07	65	3
500	0,095	80	4
600	0,12	90	5
650	0,13	95	5

Cab, rubber shoes, blade down

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



ARM LENGTH 1.240 mm

A	2 m		3 m		4 m		Max. outreach	
	Front	360°	Front	360°	Front	360°	Front	360°
4 m	-	-	-	-	-	-	(*)920	580
3 m	-	-	(*)795	470	-	-	(*)825	320
2 m	-	-	(*)1.005	455	(*)835	275	(*)825	250
1 m	-	-	(*)1.325	420	(*)920	265	(*)845	230
0 m	(*)2.670	745	(*)1.445	400	(*)930	260	(*)875	245
-1 m	(*)2.155	760	(*)1.255	405	-	-	(*)885	305
-2 m	-	-	-	-	-	-	(*)700	610

Unit: kg

ARM LENGTH 1.610 mm

A	2 m		2,5 m		3 m		Max. outreach	
	Front	360°	Front	360°	Front	360°	Front	360°
4 m	-	-	(*)700	480	-	-	(*)740	425
3 m	-	-	-	-	(*)710	285	(*)715	275
2 m	-	-	(*)845	470	(*)750	285	(*)730	225
1 m	-	-	(*)1.210	435	(*)870	270	(*)760	210
0 m	(*)2.850	745	(*)1.435	405	(*)945	260	(*)795	215
-1 m	(*)2.490	750	(*)1.370	400	(*)835	260	(*)835	260
-2 m	(*)1.575	780	-	-	-	-	(*)825	415

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. 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.