

Specifications

ENGINE

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

Model	Komatsu 3D76E
Type	emissionised 4-cycle diesel engine
Displacement.....	1.115 cm ³
Bore × stroke.....	76 × 82 mm
No. of cylinders	3
Engine power	
at rated engine speed	2.500 rpm
ISO 14396	15,7 kW / 21,1 HP
ISO 9249 (net engine power)	15,5 kW / 20,8 HP
Max. torque/engine speed	66,7 Nm/1.600 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	2.710 kg
Operating weight with cab and steel shoes	2.800 kg
Canopy	-160 kg (optional)

HYDRAULIC SYSTEM

Type	Komatsu CLSS
Main pump	variable displacement pump + gear pump
Max. pump flow.....	53,9 + 15,2 ltr/min
Max. operating pressure	24,5 MPa (245 bar)

Hydraulic motors:

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

Hydraulic cylinders (bore × stroke):

Boom	70 × 435,5 mm
Arm	65 × 451 mm
Bucket.....	55 × 460 mm
Boom swing.....	70 × 429,5 mm
Blade.....	70 × 135 mm

Bucket digging force (ISO 6015)

Arm crowd force (ISO 6015):

1.115 mm arm.....	1.400 daN (1.430 kg)
1.370 mm arm.....	1.210 daN (1.235 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 = 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.

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

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

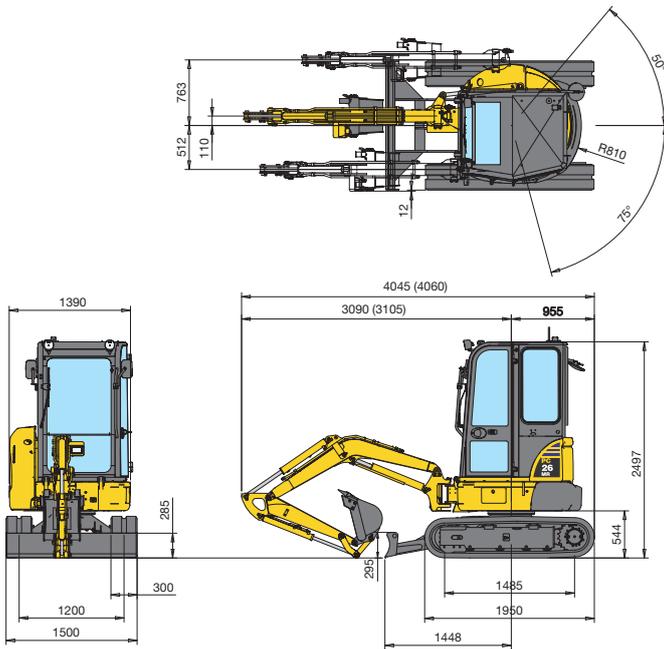
Hydraulic motors

Reduction system.....

Max. drawbar pull.....

Travel speed

Dimensions & Working Range

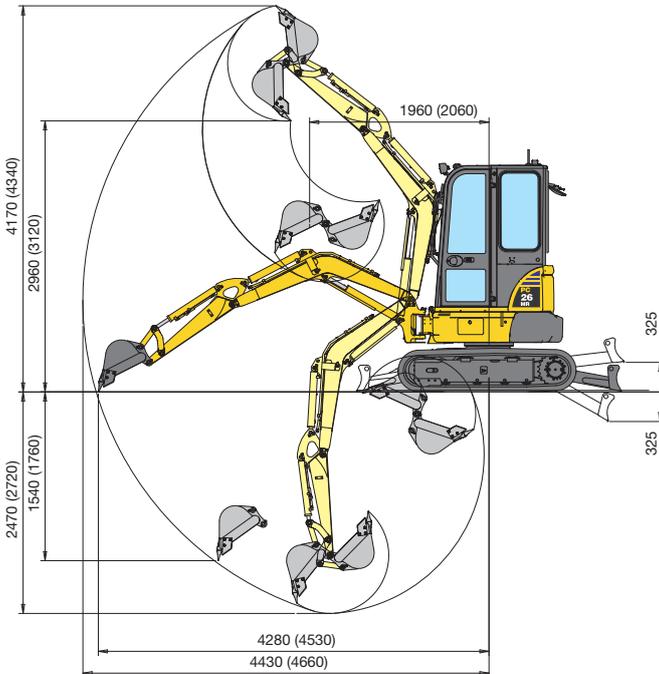


BUCKET RANGE

Width mm	Capacity m ³ (ISO 7451)	Weight kg	No. of teeth
250	0,035	30	2
350	0,055	40	3
450	0,07	50	4
550	0,085	60	5

Cab, rubber shoes, 450 mm bucket, blade down

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



ARM LENGTH 1.115 mm

B	2 m		3 m		Max. outreach	
	Front	360°	Front	360°	Front	360°
3 m	-	-	(*)560	520	(*)570	400
2 m	(*)640	(*)640	(*)570	490	(*)540	300
1 m	(*)900	660	(*)740	460	(*)530	270
0 m	(*)1.260	630	(*)780	410	(*)600	290
-1 m	(*)1.000	660	(*)740	380	(*)620	310

Unit: kg

ARM LENGTH 1.370 mm

B	2 m		3 m		Max. outreach	
	Front	360°	Front	360°	Front	360°
3 m	-	-	(*)470	(*)470	(*)470	370
2 m	-	-	(*)480	(*)480	(*)490	290
1 m	(*)970	660	(*)580	430	(*)520	260
0 m	(*)1.250	625	(*)750	380	(*)540	270
-1 m	(*)1.150	630	(*)730	380	(*)600	300

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.