

# KOMATSU

## PC09-1



Mini-excavator

**Engine power**  
6.8 kW / 9.1 HP @ 2200 rpm

**Operating weight**  
980 - 1070 kg

**Bucket capacity**  
0.016 - 0.020 m<sup>3</sup>

## PC09-1



Engine power

**6.8 kW / 9.1 HP @ 2200 rpm**

Operating weight

**980 - 1070 kg**

Bucket capacity

**0.016 - 0.020 m<sup>3</sup>**

# High versatility, extremely compact and **safe performance in tight spaces**



## **Outstanding performance**

- Agile and precise
- Extremely compact
- Superior hydraulic system
- Excellent efficiency and reliability

## **Total versatility**

- Two travel speeds
- Variable width undercarriage
- Arm with integrated demolition breaker (option)

## **Extremely robust**

- Cast body
- Tubular boom
- Metal bonnet

## **Safe and environment friendly**

- Foldable TOPS canopy (option)
- Safety lock lever
- Recycle-oriented design
- Low noise levels

## **Easy maintenance**

- Easy access to all inspection points
- Full opening bonnet
- Long interval greasing



## Outstanding performance



### Extremely compact

The new PC09-1 micro-excavator has exactly the right power and digging force for operating in tight spaces: ideal inside buildings, for small demolition work, to set plants or install an irrigation system in a garden, and, in general, on any job site where a bigger machine can't work or even be transported to.

### Superior hydraulic system

Thanks to its cutting edge hydraulic system, all movements – even when combined – are smooth and shock-free for maximum precision, in any application. The PC09-1 is a perfect mix of the care that a manual worker can bring to a job and of an excavator's high performance. It makes any job much easier and quicker to finish.

## Total versatility

### Variable width undercarriage

For applications requiring maximum versatility in terms of size and stability, the PC09-1 is equipped with a hydraulic undercarriage extension operated from the driver's seat via a dedicated control. This feature allows the operator to quickly switch from maximum stability for digging, to a reduced width of less than one meter to easily drive through narrow passages or doors.

### Arm with integrated demolition breaker (option)

With this option, the PC09-1 can switch from a digging job to a demolition application in just a few seconds: You can use the breaker without removing the bucket, by simply installing the provided point. The PC09-1 then becomes a 2-in-1 machine and you don't need to carry other special tools for top functionality and efficiency.





### Extremely robust

#### Built to last

Several technical solutions give the PC09-1 increased sturdiness and operability. The cast body offers extreme rigidity and robustness, and the metal bonnet guarantees a longer life and lower repairing costs in the event of a collision. A special tubular boom with no welding houses all hydraulic hoses and protects them from possible damage while allowing complete visibility of the digging area.



# Specifications

## Engine

Model	Komatsu 2D70E-5SBA
Displacement	570 cm <sup>3</sup>
Engine power	
at rated engine speed	2200 rpm
ISO 14396	6.8 kW / 9.1 HP
ISO 9249 (net engine power)	6.5 kW / 8.8 HP
Cooling system	Water

## Operating weight (appr.)

Operating weight with standard bucket, fully serviced, +75 kg operator (ISO 6016)	
Operating weight with rubber shoes	980 kg
TOPS canopy	+40 kg
TOPS canopy and arm with hydraulic breaker	+90 kg

## Hydraulic system

Main pumps	2 × gear pump
Max. pump flow	11 + 11 l/min
Max. operating pressure	16.5 MPa (165 bar)
Max. breakout force	1050 daN (1075 kg)

## Hydraulic breaker

Impact energy	108 J (11 kgm)
Impact rate	800 bpm

## Undercarriage

Blade - Width × height	700 × 200 mm
Shoe width	180 mm
Ground pressure (standard)	0.27 kg/cm <sup>2</sup>
Variable undercarriage	

## Transmission

Type	Double speed hydrostatic transmission, controlled and steered by means of two levers
Max. drawbar pull	1070 daN (1090 kg)
Travel speed	1.5 - 3.0 km/h

## Service refill capacities


Fuel tank	10.3 l
Engine oil	1.8 l
Hydraulic oil tank	8.5 l

## Environment

Engine emissions	Fully complies with EU Stage V exhaust emission regulations
Noise levels	
LwA external	91 dB(A) (2000/14/EC Stage II)
LpA operator ear	76 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)	
Hand/arm	≤ 2.5 m/s <sup>2</sup> (uncertainty K = 0.1 m/s <sup>2</sup> )
Body	≤ 0.5 m/s <sup>2</sup> (uncertainty K = 0.0 m/s <sup>2</sup> )

## Lifting capacity

- A** Reach from swing centre  
**B** Bucket hook height

 Rating over front







 Undercarriage retracted

Lifting capacities without bucket, blade up







 Rating over side

 Undercarriage extended

## Standard arm

Arm length			Max.			1.5 m		
								
684 mm	2.0 m	kg	180	130	175	*185	*185	*185
	1.0 m	kg	120	85	115	240	170	225
	0.0 m	kg	125	85	115	225	150	205

## Arm with hydraulic breaker & TOPS canopy

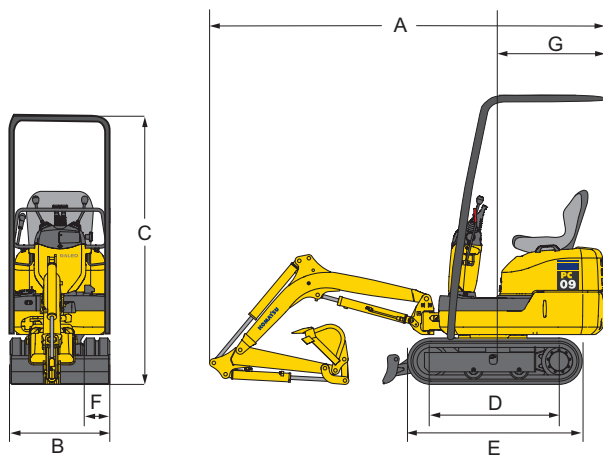
Arm length			Max.			1.5 m		
								
687 mm	2.0 m	kg	160	110	150	*165	*165	*165
	1.0 m	kg	105	70	100	230	155	215
	0.0 m	kg	105	70	100	205	130	190

### 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.

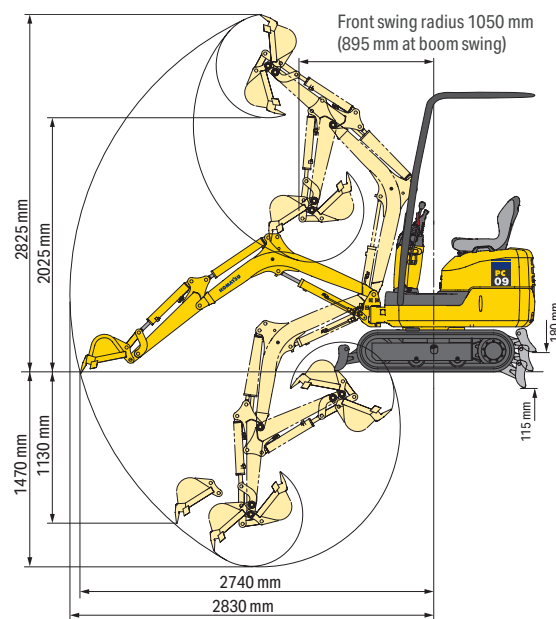
## Dimensions



### Machine dimensions

A	Overall length	mm	2780
B	Overall width (expanded)	mm	700 (850)
C	Overall height	mm	2145
D	Tumbler centre distance	mm	900
E	Track length	mm	1225
F	Shoe width	mm	180
G	Tail swing radius	mm	785
	Ground clearance	mm	165
	Boom swing angle (LH/RH)	°	50 / 80
	Boom offset (LH/RH)	mm	430 / 375

## Working range



## Standard and optional equipment

### Standard equipment

Two travel speeds	●
Variable undercarriage	●
Front blade	●
ORFS connections	●
One piece cast iron frame	●
Metal bonnet	●
Safety lock lever	●

#### Fuel:

Diesel fuel, conforming to EN590 Class 2/Grade D. Paraffinic fuel capability (HVO, GTL, BTL), conforming to EN 15940:2016

### Optional equipment

Arm with hydraulic breaker	○
Foldable TOPS canopy	○
Komatsu buckets	○

Your Komatsu partner:

**KOMATSU**

komatsu.eu

