

# KOMATSU®

## PC14R-2

NET POWER  
11,2 kW / 14,7 HP @ 2.600 rpm

OPERATING WEIGHT  
1.460 kg

BUCKET CAPACITY  
0,03 - 0,06 m<sup>3</sup>

**PC**  
**14R-2**

MINI-EXCAVATOR



**PC14R-2**

# WALK-AROUND

## *Tradition and innovation*

The new PC14R-2 compact mini-excavator is the product of the competence and technology that Komatsu has acquired for over the past eighty years. It has been developed with constant attention to the needs of customers from all over the world. The result is a user-friendly machine that offers top class performance.

## **P**RECISION

Perfectly in line with Komatsu style... absolute control is guaranteed by an advanced hydraulic system.

## **C**OMFORT

The result of many ergonomic tests is an outstanding comfort which allows the operator to work in the best conditions.

## **R**ELIABILITY

High quality standards guarantee longer life for all components, minimizing cost impact due to downtime.



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## OPERATING WEIGHT

1.460 kg

## BUCKET CAPACITY

0,03 - 0,06 m<sup>3</sup>

## V

### ERSATILITY

Developed to deliver its best in every application, the PC14R-2 can work in gardens as well as in road sites with great agility.

## A

### CESSIBILITY

Thanks to the tilting floor, access to all maintenance points has never been so fast and easy.

## C

### USTOMIZATION

With many different configurations possible, you can customize the machine to suit your needs - whatever sector you're in.

# STRONG POINTS



## **ABSOLUTE CONTROL**

Easy-to-use, the PC14R-2 allows all drivers to get the best from the job - whether experts or novices. The controls are user friendly and dedicated for each movement. Smooth operation and perfect visibility of the working area guarantee maximum productivity in even the toughest situations.

## **OPERATOR'S ENVIRONMENT**

Designed with the utmost attention to detail, the operator's environment ensures outstanding comfort, accessibility and visibility. The two pole canopy, or the cab with the wide sliding door, allows easy access to and from the machine. Once seated, the spacious, obstacle-free floor allows even the tallest operator room to move his legs. The operator's environment is further complemented by an adjustable seat and ergonomic PPC controls. Two-speed tracking (optional) is operated by a switch on the dashboard where it is possible to monitor all machine functions.



## **VARIABLE UNDERCARRIAGE**

For applications requiring maximum versatility in terms of size and stability, the PC14R-2 is available with hydraulic undercarriage extension. This is operated from the driver's seat using a push button and the blade control lever. It allows the operator to switch easily between the most stable configuration for working and the minimum width configuration (less than 1 m) for driving through narrow passages or doors.



### ROBUSTNESS

Particular technical solutions contribute to increase the sturdiness and the operability of the machine. Among these, we can highlight the cast swing support, that confers extreme rigidity to the structure, and the boom, that lodges the hydraulic hoses, protecting them from possible damages, guaranteeing the best visibility over the digging area.

### TILTING FLOOR

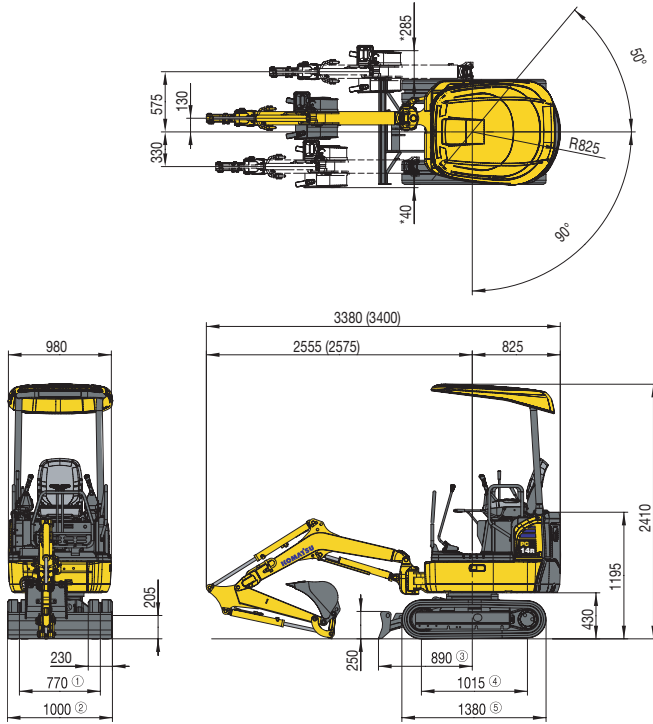
All periodic inspection points are easily accessible through the bonnets. In addition, extra-ordinary maintenance can be performed by simply tilting the canopy upwards: under the floor, the operator can find all major hydraulic components, like the main valve or the swing motor. ORFS hydraulic face seal connectors and DT electric connectors improve the reliability of the machine and make repairs easier and faster. Special technical solutions have allowed to extend up to 500 hours the intervals for most ordinary maintenance operations, such as pin greasing or engine oil replacement. Also, to avoid possible leakage, all tanks are equipped with a draining hose: this confirms once again the attention KOMATSU pays to the environment.



### CUSTOMIZATION

Many available configurations allow the operator to choose the right machine for the specific job: short or long arm, canopy or cab, rubber or steel shoes, 1 or 2 speed, standard or variable undercarriage. Moreover, the 1 / 2 way auxiliary hydraulic circuit consents to use multiple working tools, like the hammer, the clamshell bucket, the auger, etc.

# DIMENSIONS & WORKING RANGE



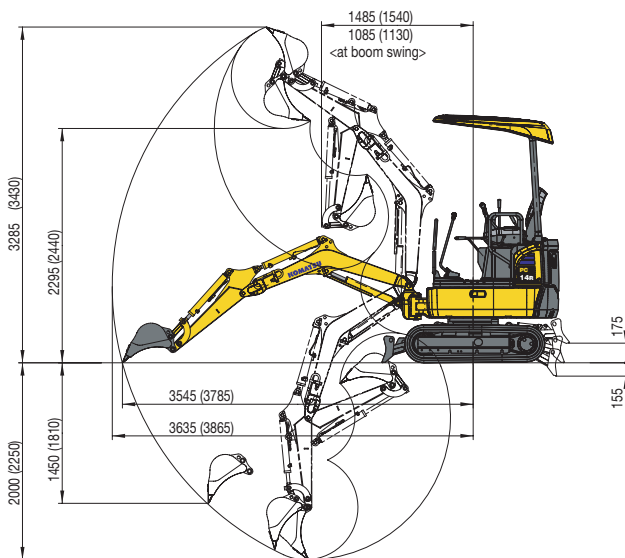
**HS version:**

- ① 750 ÷ 1070 mm
- ② 980 ÷ 1300 mm
- ③ 1145 mm
- ④ 1212 mm
- ⑤ 1555 mm

| BUCKET RANGE |                                   |           |              |
|--------------|-----------------------------------|-----------|--------------|
| Width mm     | Capacity m <sup>3</sup> (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            |

**PC14R-2: 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

**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.

# SPECIFICATIONS



## ENGINE

The new generation engine has been developed to comply with the strictest emission controls (STAGE 2).

|                             |  |
|-----------------------------|--|
| Model .....                 | Komatsu 3D67E-1  |
| Type.....                   | emissionised 4-cycle diesel engine                             |
| Displacement.....           | 778 cm <sup>3</sup>  |
| No. of cylinders .....      | 3  |
| Net power (SAE J1349) ..... | 11,2 kW / 14,7 HP @ 2.600 rpm                                  |
| Max. torque .....           | 45,6 Nm @ 2.000 rpm  |
| Cooling system.....         | water  |
| Air filter type .....       | dry  |
| Starting.....               | electric motor with pre-heating air system<br>for cold climate |



## OPERATING WEIGHT

Operating weight with standard bucket, fully serviced, +80 kg operator (ISO 6016).

|  |                    |
|--|--------------------|
| Operating weight with rubber shoes ..... | 1.460 kg           |
| Operating weight with steel shoes .....  | 1.530 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 levers on the tiltable case.



## TRANSMISSION

|                        |   |
|------------------------|---|
| Type.....              | single speed hydrostatic transmission,<br>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 |
|------------------|---------|



## 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 <sup>2</sup> |



## 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 |

# MINI-EXCAVATOR

## STANDARD EQUIPMENT

- ROPS (ISO 3471) FOPS (ISO 10262) canopy
- Rubber shoes
- 880 mm digging arm
- 1 / 2 way auxiliary hydraulic circuit for attachments up to the boom
- Adjustable seat
- Lifting cylinder guard
- Working light on boom
- Safety valve on bucket element

## OPTIONAL EQUIPMENT

- ROPS (ISO 3471) / FOPS (ISO 10262) tilting cab with heating
- Steel shoes
- 1.130 mm digging arm
- Two speeds
- Variable undercarriage (HS version)
- Bucket range (250 - 450 mm)
- 1.000 mm ditch cleaning bucket
- Travel acoustic alarm
- Extension of the auxiliary hydraulic circuit up to the arm, with quick couplings
- Rotating beacon
- Biodegradable oil
- Rear-view mirrors



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