**Dimensions**

```
+----------------+----------------+----------------+----------------+----------------+----------------+----------------+
|                |                |                |                |                |                |                |
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|                |                |                |                |                |                |                |
|                |                |                |                |                |                |                |
+----------------+----------------+----------------+----------------+----------------+----------------+----------------+
```

**Lifting Capacity**

- Rubber shoes
- 1.500 mm digging arm
- Completion of attachment's hydraulic circuit up to the arm with quick coupler
- Clamshell bucket

**Optional Equipment**

- TOPS-FOPS canopy
- Cab front protection
- Cab FOPS protection (only for cab)
- Rotating beacon

**STANDARD EQUIPMENT**

- Steel shoes
- Two travel speeds
- Blade
- Swing boom
- Boom cylinder protection
- 1.200 mm digging arm
- Hydraulic hammer circuit and 2-way attachments up to the boom
- PPC servocontrols

**STANDARD EQUIPMENT**

- TOPS-FOPS canopy
- Cab front protection
- Cab FOPS protection
- Super Deluxe seat (only for cab)
- Rotating beacon

**Components with canopies, steel shoes and 152 kg bucket**

- Dimensions with 1.500 mm arm length.

**WORKING EQUIPMENT**

<table>
<thead>
<tr>
<th>Bucket (ISO 7451)</th>
<th>Width</th>
<th>Weight</th>
<th>Number of teeth</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>kg</td>
<td></td>
</tr>
</tbody>
</table>

This table is based on the lateral stability at the maximum outreach with full bucket.

- O with material density up to 1,8 t/m³
- X non usable.

**LIFTING CAPACITY**

- Data are based on ISO 10567 standard. Above lifting capacities include a 25% safety margin and don't exceed 87% of the actual capacity. Values with asterisk (*) are referred to hydraulic capacities.

- In accordance with European norm EN 474-5, the machine is not qualified to lift loads heavier than 1,000 kg unless it is equipped with appropriate safety devices. Lifting operations with lowered blade are allowed only with safety valve on blade cylinder.

**STANDARD EQUIPMENT**

- Cooling system temperature light
- Engine pre-heating
- Independent boom swing control
- Swing lock pin
- Internal storage compartment
- Working light on boom
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Fruit of KOMATSU technology and experience, the PC27R-8 minexcavator responds perfectly to all requirements for compactness, easy handling and high performance. Flappiness and excellent stability guarantee safety and confidence in all conditions. The design of the frame and the undercarriage ensures the machine’s high resistance to stress. A wide range of possible configurations and the possibility to use the machine with various different attachments make it the best and often the only solution for many different applications.

Layout

The PC27R-8 minexcavator is fitted with a KOMATSU engine that guarantees all the power required and low fuel consumption. The advanced technology applied means minimum levels of noise and emissions (STAGE 3).

Hydraulic System

The PC27TR-8 uses the famous CLSS (Closed Load Sensed System) hydraulic circuit, that is, a closed-centre circuit with load sensing, fed by a main, variable delivery pump that ensures a closed-centre circuit with load sensing, fed by a main, variable delivery pump that ensures maximum output even in the most difficult situations.

The use of a control that characterizes the PC27R-8 allows even less expert operators to get the most out of their work. The dedicated controls for every movement are easy to understand and intuitive. A smooth and constant response of the hydraulic system and perfect visibility on the work area are the features that ensure maximum output in the most difficult situations.

The PC27R-8 features two forward gears for faster transfers, to be selected using a special pedal in the cab. At the same time, the comfortable traction force ensures that the machine can move easily even in the most demanding conditions. The wide boom swing angle allows the PC27TR-8 to work movements. All this prevents maximum problems of obstacles or slant walls. Large rear guards protect the body of the machine from accidental impacts and improve stability during storms. The hydraulic hoses are protected inside the structure of the arms and are screwed onto the jacks to simplify replacement.

Routine maintenance takes just a few minutes and is extremely simple to perform, without requiring any special tool. The use of special pads in the swing assembly and lubrication with hydraulic oil reduce the maintenance load. The use of special bushings on the arms has made it possible to ensure maximum output even in the most difficult situations. The counterweight can be easily opened to clean the radiators.

The engine swing system is a main, variable delivery pump that ensures maximum output even in the most difficult situations. A smooth and constant response of the hydraulic system and perfect visibility on the work area are the features that ensure maximum output in the most difficult situations.

Total comfort

Designed with the utmost care in every detail, the driving position offers the maximum operating comfort. Easy access, comfort, ergonomic controls, efficient control of the main functions and visibility in all directions. The cab offers excellent comfort and visibility on the work area. The innovative design of the sliding door permits operation in all conditions, minimizing the risks of accidental contact.

SHAPING TECHNOLOGY

HYDRAULIC SYSTEM

Maintenance

Aspiration: natural aspiration
Number of cylinders: 3
Type: low emissions 4-cycle diesel engine
New generation engine developed to comply with the strictest emission standards (NOx, CO).

The PC27R-8 MINI-EXCAVATOR

PC27R-8 MINI-EXCAVATOR

SPECIFICATIONS

ENGINE

Hydraulic oil tank: 29
Radiator and system: 4,0
Fuel tank: 35
Alternator: 40 A
Operating voltage: 12 V
Operating current: 68 – 82 A/mile
Operating weight with steel shoes: 3.065 kg
Operating weight with rubber shoes: 2.970 kg
Canopy: -135 kg (optional)
Number of cylinders: 3
Type: low emissions 4-cycle diesel engine
New generation engine developed to comply with the strictest emission standards (NOx, CO).

PC27R-8 MINI-EXCAVATOR

PC27R-8 MINI-EXCAVATOR

PC27R-8 MINI-EXCAVATOR

ELECTRIC SYSTEM

REFILLS

8.7
40 A
12.8
0.31 kg/1000 km

HYDRAULIC SYSTEM

Frame and the undercarriage enhance the machine’s high resistance to stress. A wide range of possible configurations and the possibility to use the machine with various different attachments make it the best and often the only solution for many different applications.

The PC27R-8 MINI-EXCAVATOR

PC27R-8 MINI-EXCAVATOR

ENGINE

Starting: electric motor with pre-heating air system
Cooling system: water
Max. torque: 81,5 Nm – 1.600 rpm
Rated power: 19,0 kW - 25,5 HP – 2.600 rpm (SAE J 1349)
Rated power: 19,4 kW – 26,0 HP – 2.600 rpm
Aspiration: natural aspiration
Number of cylinders: 3
Type: low emissions 4-cycle diesel engine
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PC27R-8 MINI-EXCAVATOR

PC27R-8 MINI-EXCAVATOR

ELECTRIC SYSTEM

REFILLS

1.235 daN (1.260 kg)
1.421 daN (1.450 kg)
2.254 daN (2.300 kg)
70 x 175 mm
80 x 495 mm
21,0 MPa (210 bar)
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68 + 8,3
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SHAPING TECHNOLOGY

Fruit of KOMATSU technology and experience, the PC27R-8 miniecavator responds perfectly to all requirements for compactness, easy handling and high performance. Ruggedness and excellent stability guarantee safety and confidence in all conditions. The design of the frame and the undercarriage enhances the machine’s high resistance to stress. A wide range of possible configurations and the possibility to use the machine with various different attachments make it the best and often the only solution for many difficult applications.

Hydraulic System

The PC27R-8 miniecavator is fitted with a KOMATSU engine that guarantees the full power required and low fuel consumption. The advanced technology applied means minimum levels of noise and emissions (STAGE 2).

The PC27R-8 uses the famous CLSS (Closed Load Sensing System) hydraulic circuit, that is, a closed-circuit central pump with load sensing, led by a mono-stage, variable-delivery pump that ensures smooth and perfectly synchronized combined movements. All the guarantees maximum productivity and minimum consumption.

Lightweight

The PC27R-8 miniecavator is very lightweight. In the most demanding conditions, the continuous presence of obstacles or along walls. Large rear guards protect the body of the machine from accidental impacts and improve stability during work. The hydraulic hoses are protected inside the structure of the arms and are screwed onto the jacks to simplify replacement.

Verdiality

The PC27R-8 features two forward gears for faster transfers, to be selected using a special pedal in the cab. At the same time, the considerable traction force ensures that the machine can move easily even in the most demanding conditions. The wide boom swing angle allows the PC27R-8 to work movements in the presence of obstacles or along walls. All this guarantees maximum productivity and minimum consumption.

Total comfort

Designed with the utmost care in every detail, the driving position offers the maximum comfort and usability on the work area. The innovative design of the sliding door permits operation in all conditions, minimizing the risks of accidental contact.

THE USE OF THIS TECHNOLOGY...
**SHAPING TECHNOLOGY**

**PC27R-8 MINI-EXCAVATOR**

**Engine**

The PC27R-8 miniexcavator is fitted with a KOMATSU engine that guarantees all the power required and low fuel consumption. The advanced technology applied means minimum levels of noise and emissions.

**Hydraulic System**

The PC27R-8 uses the famous CLSS (Closed Loop Sensing System) hydraulic circuit, that is, a closed-circuit centre with load sensing, fed by a main, variable delivery pump that ensures a closed-centre circuit with load sensing, fed by a main, variable delivery pump that ensures a closed-centre circuit with load sensing, fed by a main, variable delivery pump that ensures a closed-centre circuit with load sensing, fed by a main, variable delivery pump that ensures a closed-centre circuit with load sensing, fed by a main, variable delivery pump that ensures a closed-centre circuit with load sensing. The control system provides a smooth and constant response of the hydraulic system and perfect visibility on the work area from the control lever to the hydraulic motor.

**Operation Comfort**

The PC27R-8 is fitted with a control system that makes it easy to use the machine with various different attachments. The control system is designed to allow all the maintenance operations to be performed from one side only. The counterweight can be easily opened to clean the radiators. The rotation is operated by means of an orbital hydraulic motor. The rotation can be stopped by lifting the safety levers on the tiltable swing assembly and lubrication with hydraulic oil reduces wear.

**Swing System**

The PC27R-8 is built upon a KOMATSU SWT swing system. The rotation is operated by means of an orbital hydraulic motor.

**Transmission**

The transmission is built upon a KOMATSU direct drive system. The engine is located at the front of the vehicle and is connected to the swing assembly by a torque converter.

**Operating Weight**

The PC27R-8 is a miniexcavator and has an operating weight of 2.7 tons. The machine is designed to be compact and easy to handle, making it ideal for use in tight spaces or difficult applications. The machine is equipped with a powerful engine and has a maximum lifting capacity of 2.5 tons.

**Specifications**

- **Swing System**
  - Type: Direct drive

- **Transmission**
  - Type: Direct drive

- **Engine**
  - Model: KOMATSU 3D82AE-3FA
  - Displacement: 1.330 cm³
  - Combustion: Direct injection

- **Maintenance**
  - Routine maintenance: 20 hours
  - Fuel: Diesel
  - Oil: SAE 15W-40

- **Performance**
  - Operating pressure: 21.0 MPa (210 bar)
  - Max. lift. force: 2.354 kN (2.400 kgf)
  - Min. lift. force: 0.727 kN (0.750 kgf)

- **Dimensions**
  - Width x height: 1.500 x 315 mm
  - Max. lifting above ground level: 400 mm
  - Max. depth below ground level: 330 mm

- **Attachments**
  - Blade: Electrowelded or single section

**Refills**

- **Hydraulic oil**
  - Type: SAE 15W-40
  - Capacity: 25 L

- **Fuel tank**
  - Capacity: 35 L

- **Battery**
  - Capacity: 80 Ah

- **Starter**
  - Capacity: 1.2 kW

**Electrical System**

- **Alternator**
  - Output: 100 A

**Engine Oil**

- Type: SAE 15W-40
  - Capacity: 5.2 L

**Radiator and System**

- **Capacity:** 4.0 L

**Undercarriage**

- **Type:** Steel track chain and light structure
  - Type: Steel track chain and light structure
  - Track pitch: 150 mm
  - Chain pitch: 150 mm
  - Drive wheel width: 350 mm
  - Ground pressure (standard): 0.31 kg/cm²

**Hydraulic System**

- **Main pumps:** Variable displacement pumps
  - Displacement: 1.330 cm³

- **Hydraulic motors:** Axial piston motors
  - Capacity: 2.354 kN (2.400 kgf)

- **Valves:** Electric valve

**Hydraulic Oil**

- **Type:** SAE 15W-40
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**Fuels**

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**PC27R-8 MINI-EXCAVATOR**

**STANDARD EQUIPMENT**
- Steel shoes
- Two travel speeds
- Blade
- Swing boom
- Boom cylinder protection
- 1,200 mm digging arm
- Hydraulic hammer circuit and 2-way attachments up to the boom
- PPC servocontrols
- 3-way equipment circuit
- TOPS cab with heat and windshield wipers
- One angle key
- Indicators: hour meter, fuel level, engine oil level, engine oil pressure
- Cooling system temperature light
- Engine pre-heating
- Independent boom swaying control
- Swing lock pin
- Internal storage compartment
- Working light on boom
- External electric plug

**OPTIONAL EQUIPMENT**
- Rubber shoes
- 1,500 mm digging arm
- Completion of attachment's hydraulic circuit up to the arm with quick coupler
- Clamshell bucket
- TOPS-FOPS canopy
- Cab FOPS protection
- Cab FOPS canopy
- Super Deluxe seat (only for cab)
- Rotating beacon
- Biodegradable
- Digging buckets range (250 mm - 650 mm)
- Ditch cleaning bucket (1,300 mm)
- Hydraulic hammer

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- Clamshell bucket
- TOPS-FOPS canopy
- Cab FOPS protection
- Super Deluxe seat
  (only for cab)
- Rotating beacon
- Biodegradable
- Digging buckets range (250 ÷ 650 mm)
- Ditch cleaning bucket (1.300 mm)
- Hydraulic hammer
- Hydraulic hammer circuit and 2-way attachments up to the boom
- PPC servocountrols
- 2-way equipment circuit
- TOPS cab with heat and windshield wipers
- One single key
- Indicators:
  - hour meter
  - fuel level
  - engine oil level
  - engine-oil pressure
  - cooling system temperature light
  - engine pre-heating
  - independent boom-swing control
  - swing lock pin
  - internal storage compartment
  - working light on boom
  - external electric plug

**STANDARD EQUIPMENT**

- Steel shoes
- Two travel speeds
- Blade
- Swing boom
- Boom cylinder protection
- 1.200 mm digging arm
- Hydraulic hammer circuit and 2-way attachments up to the boom
- PPC servocountrols
- 3-way equipment circuit
- TOPS cab with heat and windshield
- One single key
- Indicators:
  - hour meter
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  - engine oil level
  - engine-oil pressure
- Cooling system temperature light
- Engine pre-heating
- Independent boom-swing control
- Swing lock pin
- Internal storage compartment
- Working light on boom
- External electric plug

**OPTIONAL EQUIPMENT**

- Rubber shoes
- 1.500 mm digging arm
- Completion of attachment’s hydraulic circuit up to the arm with quick coupler
- Clamshell bucket
- TOPS-FOPS canopy
- Cab FOPS protection
- Super Deluxe seat
  (only for cab)
- Rotating beacon
- Biodegradable
- Digging buckets range (250 ÷ 650 mm)
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**LIFTING CAPACITY**

Machine with canopy, steel shoes and 52 kg bucket

<table>
<thead>
<tr>
<th>Machine with canopy, steel shoes and 52 kg bucket</th>
</tr>
</thead>
<tbody>
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<td>A: Distance from machine’s center</td>
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- Capacity per load in C: Lateral or 360° capacity

**LOWED BLADE**

Machine with canopy, steel shoes and 52 kg bucket

<table>
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<tr>
<th>Arm length</th>
<th>Width</th>
<th>Height</th>
<th>(ISO 7451)</th>
<th>(mm)</th>
<th>(kg)</th>
<th>Number of teeth</th>
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This table is based on the lateral stability at the maximum outreach with full bucket.

- O with material density up to 1,8 t/m³; - X non usable.

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