









M I N I - E X C A V A T O R

NET POWER **SAE J1349** 19,4 kW - 26 HP

**OPERATING WEIGHT** From 2.970 kg to 3.065 kg

# SHAPING TECHNOLOGY

Fruit of KOMATSU technology and experience, the PC27R-8 miniexcavator 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 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 indeed often the only solution for many difficult applications.

#### 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 (STAGE 2).

#### **Hydraulic System**

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



#### **Total comfort**

Designed with the utmost care in every minimum detail, the driving position offers the maximum operating comfort. Easy access, comfort, ergonomic controls, an efficient monitor for controlling 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.





KOMATSU

# PC27R-8 MINI-EXCAVATOR







### "PPC" Proportional Servocontrols

The ease of use 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 ergonomic. A smooth and constant response of the hydraulic system and perfect visibility on the work area are the features that ensure maximum output even in the most difficult situations.

#### Versatility

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 without difficulty even in the 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.

#### Maintenance

Routine maintenance takes just a few minutes and is extremely simple to perform, without requiring any special tool. The use of special seals in the swing assembly and lubrication with hydraulic oil reduce maintenance and the risks of contamination. The design of the engine allows all the maintenance operations to be performed from one side only. The counterweight can be easily opened to clean the radiators. The use of special bushings on the arms has made it possible to extend the greasing intervals.







# **S**pecifications



## 

New generation engine developed to comply with the strictest emission controls (STAGE 2).

	Komatsu 3D82AE-3FA
	1.330 cm <sup>3</sup>
Number of cylinders	
	direct injection
Aspiration	natural aspiration
Rated power:	
(SAE J 1349)	
(80/1269/EC	
Max torque	
Cooling system	water
	dry
	electric motor with pre-heating air system
C	for cold climate



#### **OPERATING WEIGHT**

Operational mass with standard bucket, fully serviced + 80 kg operator (ISO 6016).

Operating weight with rubber shoes	2.970 kg
Operating weight with steel shoes	3.065 kg
Canopy135	kg (optional)



### HYDRAULIC SYSTEM

Digging equipment are fully controlled by PPC servo-controls. All movements are stopped by lifting the safety levers on the tiltable cases.





Typehydrostatic transmission, with 2 speeds contr				
and steered by me	eans of two levers and two pedals			
Hydraulic motors	2 x axial pistons			
Reduction system	epiclyclic reduction gear			
Max traction force	2.136 daN (2.180 kg)			
Travel speed	2,2 - 4,4 km/h			



Туре	electrowelded, single unit structure
Width x height	
Max. lifiting above ground leve	l400 mm
Max depth below ground level	



## UNDERCARRIAGE

Central lower frame and carriage frame Shoes	
Track rolles	n. 4 each side
Shoes width	
Ground pressure (standard)	0,31 kg/cm <sup>2</sup>



Operating voltage	12 V
Battery	
Alternator	40 A
Starter	1,2 kW



Fuel tank	
Radiator and system	
Engine oil	
Final reduction gears (for each side)	
Hydraulic oil tank	

## DIMENSIONS



WORKING EQUIPMENT							
Bucket (ISO 7451) m <sup>3</sup>	Width mm	Weight kg	Number of teeth	Arm 1.200 mm     1.500 mm			
0,045	250	32	2	0	0		
0,06	350	40	3	0	0		
0,075 (std)	450	52	4	0	0		
0,095	600	60	5	0	0		
0,105	650	65	5	0	Х		

This table is based on the lateral stability at the maximum outreach with full bucket. - O with material density up to 1,8 t/m<sup>3</sup>; - X non usable.

# LIFTING CAPACITY



Machine with canopy, steel shoes and 52 kg bucket A- Distance from machine's center B- Heigt at bucket pin

Capacity over front ~ Lateral or 360° capacity h

#### LOWERED BLADE

Arm lenght	АВ	2 m		3 m		4 m		Full
		360°⊶ <b>–</b> ট	Front 🖁	360°- <b>E</b>	Front	360°- <b></b>	Front 🖁	extended
L=1.200 mm	2 m	*860	*860	*550	*730	320	*460	375
	1m	850	*1.360	530	*750	310	*390	300
	0 m	850	*1.340	520	*675	300	*390	310
	-1 m	850	*910	530	*700	310	*410	325
L=1.500 mm	0 m	780	*980	500	*650	285	*330	270

300

1.200 1.500

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.

# PC27R-8 MINI-EXCAVATOR

# **STANDARD EQUIPMENT**

- cooling system temperature light Steel shoes 2-way equipment circuit • TOPS cab with heat and windshield - engine pre-heating • Two travel speeds Independent boom-swing control Blade wipers Swing boom One single key Swing lock pin • Internal storage compartment Boom cylinder protection • Indicators: • 1.200 mm digging arm - hour meter • Working light on boom Hydraulic hammer circuit and 2-way - fuel level External electric plug attachments up to the boom - engine oil level PPC servocontrols - engine oil pressure **OPTIONAL EQUIPMENT**  Rubber shoes • TOPS-FOPS canopy Biodegradable 1.500 mm digging arm Digging buckets range Cab front protection • Completion of attachment's hydraulic • Cab FOPS protection (250 ÷ 650 mm) • Ditch cleaning bucket (1.300 mm)

  - Hydraulic hammer

- circuit up to the arm with quick coupler
- Clamshell bucket
- Super Deluxe seat (only for cab)
- Rotating beacon

KOMATSU

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This specifications sheet may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.



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