







# PC12R-8

MINI-EXCAVATOR

NET POWER **SAE J1349** 10,7 kW - 14,3 HP

**OPERATING WEIGHT** From 1.475 kg to 1.675 kg

# SHAPING TECHNOLOGY

Fruit of KOMATSU technology and experience, the PC12R-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 characteristic tubular structure and the geometry of the boom ensure excellent digging parameters and optimum visibility on the work area. 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 PC12R-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 PC12R-8 uses the famous **CLSS** (*Closed Load Sensing System*) hydraulic circuit, that is, a closed-centre circuit with load sensing that ensures maximum controllability and extremely precise movements.



## **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, either in the standard version with canopy and in the version with cab.





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### "PPC" Proportional Servocontrols

The ease of use that characterizes the PC12R-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

Owing to the considerable traction force, the machine can move easily even in the most demanding conditions. The wide boom swing angle allows the operator 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.

#### High Stability

For the applications requiring maximum versatility in terms of size and stability, the PC12R-8 is available in the **HS** (*High Stability*) version with hydraulic extension of the undercarriage, which can be easily obtained by operating a push button and the blade control lever from the driver's seat. This device makes the machine much more stable during work, with no compromise on manoeuvrability in restricted spaces.





Routine maintenance takes just a few minutes and is extremely simple to perform, without requiring any special tool.

The diesel oil tank made of special plastic prevents rusting and simplifies periodic cleaning operations.

The easy-to-reach engine, the use of self-lubricating bushings in the arms and the high reliability of the components have made it possible to drastically reduce maintenance times, thus lowering operating costs.



# **S**pecifications



# NGINE

	Komatsu 3D68E-N3FB
	low emissions 4-cycle diesel engine
Displacement	
Number of cylinders	3
Combustion	swirl pre-combustion chamber type
	natural aspiration
Max power	12,7 kW - 17 HP
Rated power:	
(SAE J 1349)	10,6 kW - 14,3 HP – 2.450 rpm
(80/1269/EC)	
Cooling system	water
	dry
	electric motor with pre-heating air system for cold climate
	IOI COID CIITTALE



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 ......9 rpm



BLADE

# TRANSMISSION

Туре	hydrostatic transmission, controlled
and steered by	means of two levers and two pedals
Hydraulic motors	2 x axial pistons
Reduction system	epiclyclic reduction gear
Max traction force	1.130 daN - (1.155 kg)
Travel speed	2 km/h



#### **OPERATING WEIGHT**

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

Operating weight with rubber shoes	1.475 kg
Operating weight with steel shoes	
Heated cab weight	
Variable undercarriage weight (HS version)	

	'n	
0	W	•

#### **HYDRAULIC SYSTEM**

Type Main pumps Max delivery	3 x gear pump
Operating pressure: working equipment	.18,6 MPa (186 bar)
Hydraulic motors travel swing	
Hydraulic cylinders boom	50 x 403 mm 50 x 385 mm 60 x 313 mm
Bucket breakout force (ISO 6015): Arm 880 mm	.320 daN (1.350 kg) 825 daN (840 kg)

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

Туре	electrowelded, single unit structure
	1.000 x 250 mm
Max. lifiting above ground level.	175 mm
Max depth below ground level	155 mm



# UNDERCARRIAGE

Central lower frame and carriage frame with boxe	ed section.
Shoes	n. 31
Track rolles	n. 3 each side
Shoes width (steel/rubber)	
Ground pressure (std. version)	0,3 kg/cm

Hydraulically operated track extension (HS version - optional).

# ELECTRIC SYSTEM

Operating voltage	12 V
Battery	45 Ah
Alternator	
Starter	0,9 kW



Fuel tank	20 <i>l</i>
Radiator and system	3,2 <i>t</i>
Engine oil	
Final reduction gears (for each side)	0,6 <i>t</i>
Hydraulic oil tank	

# DIMENSIONS





Machine with canopy, rubber shoes and 22 kg bucket A- Distance from machine's center B- Height at bucket pin

Capacity over front - Capacity over front - Capacity

#### LOWERED BLADE

Arm longth	A	2 m		Full extended	
Arm length	В	360°- <b>Ē</b>	Front 🖁	360°⊶ <b>–</b> ট	Front 🖁
L=880 mm	2 m	*240	*245	145	*195
	1m	260	*345	130	*205
	0 m	250	*335	130	*210
	-1 m	260	*355	170	*260
L=1.130 mm	0 m	250	*345	115	*185

- 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.

kg

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# **STANDARD EQUIPMENT**

<ul> <li>Blade</li> <li>Swing boom</li> <li>Boom cylinder protection</li> <li>880 mm digging arm</li> <li>Hydraulic hammer circuit with piping</li> </ul>	<ul> <li>TOPS-FOPS canopy</li> <li>Indicators: hour meter, fuel level, engine oil level, engine oil pressure, cooling system temperature light, engine pre-heating</li> <li>Independent boom-swing control</li> <li>Swing lock pin</li> <li>Internal storage compartment</li> </ul>	<ul> <li>Working light on boom</li> <li>External electric plug</li> </ul>	
Of	PTIONAL EQUIPME	NT	
<ul> <li>Steel shoes</li> <li>Variable undercarriage (HS version)</li> <li>1.130 mm digging arm</li> <li>Completion of attachment's hydraulic circuit up to the arm with quick coupler</li> <li>2-way equipment circuit</li> </ul>	• Heated TOPS cab with windshield	<ul> <li>Biodegradable oil</li> <li>Digging buckets range (250 ÷ 450 mm)</li> <li>Ditch cleaning bucket (1.000 mm)</li> <li>Hydraulic hammer</li> </ul>	



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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.



COMPANY WITH ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFIED BY DNV ===ISO 14001====