









PC45R-8

MINI-EXCAVATOR

NET POWER **SAE J1349** 28,9 kW - 38,8 HP

OPERATING WEIGHT From 4.750 kg to 4.860 kg

PC45R-8 MINI-EXCAVATOR

SHAPING TECHNOLOGY

Fruit of KOMATSU technology and experience, the PC45R-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 PC45R-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).

KOMATSU

Hydraulic system

The PC45R-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.





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Proportional servocontrols "PPC"

The ease of use that characterizes the PC45R-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 PC45R-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 PC45R-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 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.



Specifications



ENGINE

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

Model	Komatsu 4D84E-3FA
Туре	low emissions 4-cycle diesel engine
	1.995 cm ³
Number of cylinders	4
	direct injection
Aspiration	natural aspiration
Max power	
Rated power:	
(80/1269/EC)	
Max torque	118,0 Nm – 1.800 rpm
Cooling system	water
Dry system	dry
Startingele	ctric motor with pre-heating air system for cold climate



OPERATING WEIGHT

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

Operating weight with rubber shoes	4.750 kg
Operating weight with steel shoes	4.860 kg
Canopy13	35 kg (optional)



HYDRAULIC SYSTEM

Type Main pumpsVaria Max delivery	ble displacement pump +1 gear pump
Operating pressure: working equipment Hydraulic motors travel swing	MPa 25,5 (255 bar) MPa 25,5 (255 bar)
Hydraulic cylinders boom arm bucket boom rotation blade	85 x 695 mm 75 x 580 mm 95 x 635 mm
Bucket breakout force (ISO 6015): Arm 1.480 mm Arm 1.900 mm Arm breakout force (ISO 6015): Arm 1.480 mm Arm 1.900 mm	4.145 daN (4.230 kg) 2.450 daN (2.500 kg) 2.064 daN (2.106 kg)

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

SWING SYSTEM



Typehydrostatic transmission with 2 speeds, controlled					
and steered by mea	ins of two levers with two pedals				
Hydraulic motors	2 x axial pistons				
Reduction system	epiclyclic reduction gear				
Max traction force	4.021 daN - (4.100 kg)				
Travel speed	2,8 - 4,6 km/h				



Туре	electrowelded, single unit structure
Width x height	
Max. lifiting above ground level	
Max depth below ground level	440 mm

Central lower frame and carriage frame	with boxed section.
Shoes	n. 38 each side
Track rolles	n. 5 each side
Shoes width	400 mm
Ground pressure (standard)	0,29 kg/cm ²

Operating voltage	12 V
Battery	
Alternator	40 A
Starter	1,2 kW
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Fuel tank	51,5 <i>t</i>
Radiator and system	
Engine oil	
Final reduction gears (for each side)	
Hydraulic oil tank	

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Bucket	Width	Weight	Number	Arm		
(ISO 7451) m ³	mm	kg	of teeth	1.480 mm	1.900 mm	
0,07	300	75	2	0	0	
0,10	400	90	3	0	0	
0,125 (std)	500	100	4	0	0	
0,15	600	115	5	0	0	
0,175	700	125	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/m3; - X non usable.

LIFTING CAPACITY

Machine with canopy, rubber shoes and 115 kg bucket A- Distance from machine's center B- Heigt at bucket pin

Capacity over front - Lateral or 360° capacity ħ



LOWERED BLADE

	A	2 m		3 m		4 m		Full extended
Arm lenght	в	360° ⊶₽	Front	360°- E	Front 🖁	360°- 	Front 🖁	360° -E
	3 m	-	-	700	*760	610	*720	480
L=1.480 mm	2 m	-	-	1.100	*1.550	660	*830	430
	1m	1.875	*2.650	1.025	*1.510	610	*880	430
	0 m	1.900	*2.660	1.050	*1.525	610	*920	430
	-1 m	1.880	*2.600	1.050	*1.500	610	*920	480
L=1.900 mm	0 m	1.800	*2.400	800	*1.250	510	*830	330

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.

kg

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STANDARD EQUIPMENT

 Steel shoes • PPC servocontrols - engine pre-heating TOPS-FOPS canopy Independent boom-swing control • Two travel speeds • One single key Swing lock pin Blade Swing boom Indicators: Internal storage compartment Boom cylinder protection - hour meter • Working light on boom • 1.480 mm digging arm - fuel level • External electric plug Hydraulic hammer circuit and 2-way - engine oil level attachments up to the boom - engine oil pressure • 2-way equipment circuit - cooling system temperature light **OPTIONAL EQUIPMENT** TOPS-FOPS canopy Biodegradable oil Rubber shoes • 1.900 mm digging arm Canopy front guard • Digging buckets range • Completion of attachment's hydraulic • Cab FOPS protection (300 ÷ 700 mm) • Ditch cleaning bucket 1.400 mm circuit up to the arm with quick • Super De Luxe seat coupler (only for cab) Hydraulic hammer Clamshell bucket Rotating beacon



Komatsu Utility Europe Head Office via Atheste 4 35042 Este (Padova) - Italy Tel. +39 0429 616111 Fax +39 0429 601000 www.equipmentcentral.com utility@komatsu.it

stp - www.stp.it 947033819 - GB - 03/2003

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==