KOMATSU Útility



PC 35R-8





PC35R-8

MINI-EXCAVATOR

NET POWER SAE J1349

21 kW - 28,2 HP

OPERATING WEIGHT

From 3.575 kg to 3.670 kg

SHAPING TECHNOLOGY

Fruit of KOMATSU technology and experience, the PC35R-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 PC35R-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).

Hidraulic System

The PC35R-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.







PC35R-8 MINI-EXCAVATOR







"PPC" Proportional Servocontrols

The ease of use that characterizes the PC35R-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 PC35R-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 PC35R-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).

Туре	Komatsu 3D84E-3FAlow emissions 4-cycle diesel engine
Displacement	1.496 cm ³
Cyl. bore x stroke	84 x 90 mm
	3
	direct injection
Aspiration	natural aspiration
Max power	24,6 kW – 33,0 HP
Rated power:	
(SAE J 1349)	21,0 kW – 28,2 HP – 2.500 rpm
(80/1269/EC)	20,6 kW - 27,6 HP - 2.500 rpm
Max torque	90,0 Nm – 1.800 rpm
	water
Dry system	dry
	ctric motor with pre-heating air system
•	for cold climate



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 speed9,0 rpm



TRANSMISSION



OPERATING WEIGHT

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

Operating weight with rubber shoes	3.575 kg
Operating weight with steel shoes	3.670 kg
Canopy	135 kg (optional)



BLADE

Type	.electrowelded, single unit structure
Width x height	1.520 x 355 mm
Max. lifiting above ground level	350 mm
Max depth below ground level	382 mm



HYDRAULIC SYSTEM

Type
Operating pressure: working equipment25,0 MPa (250 bar)
Hydraulic motors travel
Hydraulic cylinders bore x stroke boom .80 x 540 mm arm .75 x 595 mm bucket .65 x 490 mm boom rotation .85 x 635 mm blade .90 x 120 mm
Bucket breakout force (ISO 6015): Arm 1.350 mm
Digging equipment are fully controlled by PPC servo-controls. All movements are stopped by lifting the safety levers on the tiltable



UNDERCARRIAGE

Central lower frame and carriage	frame with boxed section.
Shoes	n. 42 each side
Track rolles	n. 4 each side
Shoes width	300 mm
Ground pressure (standard)	0,29 kg/cm ²



ELECTRIC SYSTEM

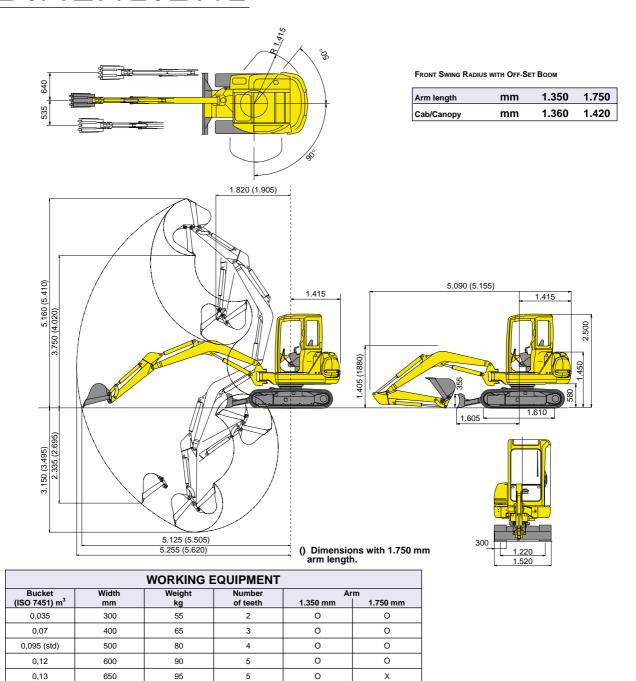
Operating voltage	12 V
Battery	
Alternator	40 A
Starter	1,2 kW



REFILLS

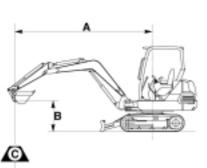
Fuel tank	51,5 ℓ
Radiator and system	6.8 <i>e</i>
Engine oil	
Final reduction gears (for each side)	
Hydraulic oil tank	,

DIMENSIONS



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 80 kg bucket

A- Distance from machine's center B- Heigt at bucket pin

Capacity over front Lateral or 360° capacity

LOWERED BLADE

	A	2 m		3 m		4 m		Full extended
Arm lenght	В	360°⊶ 	Front 🖁	360°—Ё	Front 🖁	360%—₽	Front 🖁	360%—₽
L=1.350 mm	3 m	-	-	580	* 630	440	*600	440
	2 m	1.150	*1.910	580	* 810	390	*620	340
	1m	1.175	*1.960	630	* 920	390	*660	340
	0 m	1.170	*1.900	630	*1.040	390	*710	340
	-1 m	1.100	*1.880	580	*920	390	*650	340
L=1.750 mm	0 m	1.050	*1.750	550	*880	340	*630	290

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.

PC35R-8 MINI-EXCAVATOR

STANDARD EQUIPMENT

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

- 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

OPTIONAL EQUIPMENT

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

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

- Biodegradable
- Digging buckets range $(300 \div 650 \text{ mm})$
- Ditch cleaning bucket (1.300 mm)
- Hydraulic hammer

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