

PC30MR-2

OPERATING WEIGHT

2.990 - 3.465 kg

NET POWER

20,6 kW / 27,6 HP @ 2.500 rpm

BUCKET CAPACITY

0,035 - 0,13 m³

PC 30MR-2

MINI-EXCAVATOR



PC30MR-2

WALK-AROUND

Tradition and Innovation

The new compact mini-excavator is the product of the competence and the technology that KOMATSU has been acquiring for over the past eighty years. The project has been developed with a constant attention to the needs of customers from all over the world; the result is a user-friendly machine, which offers top class performance.

Performance

The new short tail PC30MR-2 supplies optimal power and digging speed in confined spaces: yards, road works, demolition works, sewers, wherever traditional machines cannot work. Sturdiness and excellent stability ensure safety and confidence in any condition.

Komatsu CLSS

The CLSS (Closed Load Sensing System) hydraulic circuit guarantees power, speed and perfect control to all movements, including the combined ones. The main feature of this system is the connection between the variable displacement pump and the closed-centre circuit with load sensing, which allows operators to perform all movements with maximum efficiency, regardless of the load or the rpm. These characteristics are highlighted by the hydraulic servo-controls, which are by far the easiest to use and require minimum efforts to perform extremely precise manoeuvres.

Comfort

Despite its compact size, the PC30MR-2 offers a comfort which has no equals: spacious cab, **PPC** proportional servo-controls for all movements, sliding door, gas spring assisted front window, storage drawer, hook, cup holder, courtesy lamp and, upon request, radio and air conditioning.

Versatility

Many available configurations allow the operator to choose the right machine for the specific job: short or long arm, cab or canopy, rubber or steel shoes, extra counterweight. Moreover, the 1 / 2 way auxiliary hydraulic circuit consents to use multiple



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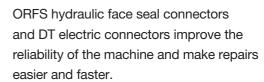
> BUCKET CAPACITY 0,035 - 0,13 m³

Maintenance

All periodic inspection points are easily accessible through the bonnets. The fuel and the hydraulic oil tanks are located under the side bonnet, in a safe and easy to reach position.

In addition, extra-ordinary maintenance can be performed by simply tilting the cab upwards: under the floor, the operator can find all major hydraulic components, like the main valve or the swing motor.



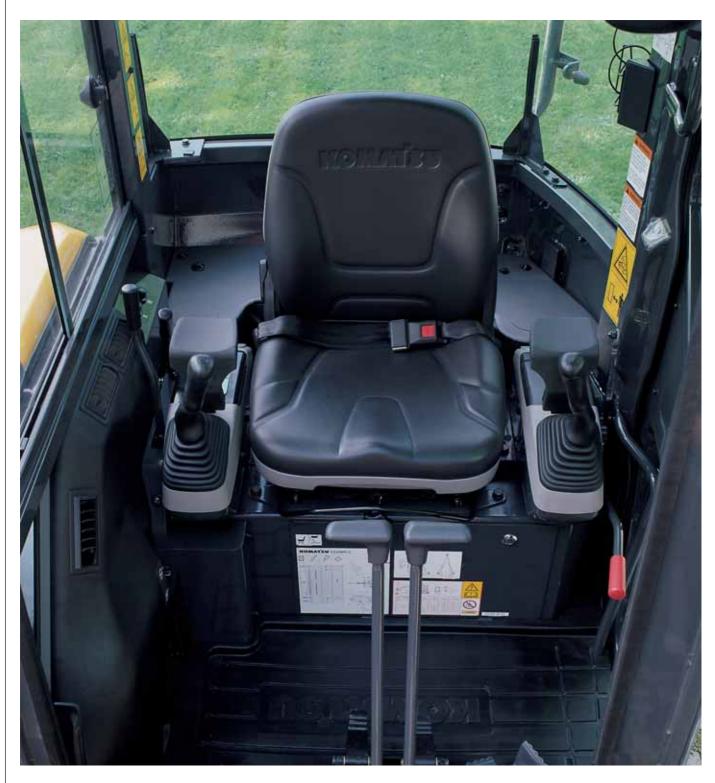


Special technical solutions have allowed to extend up to 500 hours the intervals for most ordinary maintenance operations, such as pin greasing or engine oil replacement.

Also, to avoid possible leakage, all tanks are equipped with a draining hose: this confirms once again the attention KOMATSU pays to the environment.



OPERATOR'S ENVIRONMENT



The spacious cab has been developed with exceptional care for details, making the work environment noiseless and comfortable. Special attention has been paid to the internal layout: ergonomic and dedicated PPC controls; speed switch button on the panel instead of pedal, which consequently offers more floor room; adjustable seat; gas spring assisted front window opening; efficient heating and ventilation system. Air conditioning is upon request and guarantees optimal thermal comfort all year long.

Last, but not least, the upper rail type sliding door makes getting on/off the machine very easy and safe in any situation.

STRONG POINTS

Engine

The KOMATSU engine supplies the required power, keeping the fuel consumption very low. By taking advantage of state of the art technologies, it ensures minimum levels of noise and emissions (STAGE 2).



Automatic Shift Down

Once turned on, this device automatically adjusts the hydraulic travel motor to the working conditions: maximum displacement for faster movements, minimum displacement for top drawbar pull. This process doesn't require operator's support.



Attachment line

The 1/2 way auxiliary hydraulic circuit allows the use of several tools for different purposes: hammer, clamshell bucket, and so on. The switching between the two options is realised simply by means of a cock, which is located on the side of the machine and right behind a little bonnet.



X-Frame

The new casted type X-frame ensures maximum stress resistance and optimal stress distribution; this shape makes the machine much more rigid and reliable. In addition, it facilitates the usual undercarriage cleaning operations and the spoil removing.

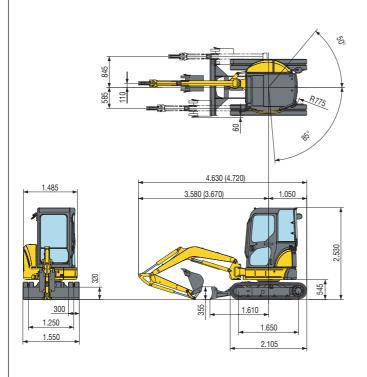


Additional Counterweight

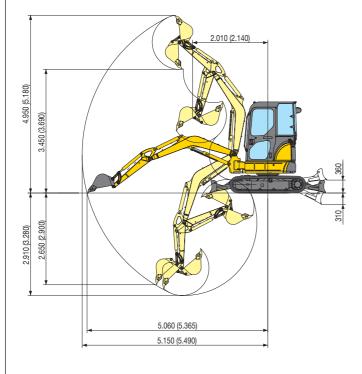
The opportunity to quickly add and remove counterweight allows conversion to the PC30MR-2 from *0-Tail* to *Short Tail* and vice-versa, thereby satisfying specific job-site requirements. Such counterweight increases the machine stability and the lifting capacity.



DIMENSIONS & WORKING RANGE



BUCKET RANGE					
Width mm	Capacity m³ (ISO7451)	Weight kg	No. of teeth		
300	0,035	55	2		
400	0,07	65	3		
500	0,095	80	4		
600	0,12	90	5		
650	0,13	95	5		



Machine with Cab, Steel Shoes, Additional Counterweight and Blade at Ground Level

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

Arm length 1.260 mm								
A	2 m		3 m		4 m		Max. outreach	
в	Front.	360°	Front.	360°	Front.	360°	Front.	360°
3 m	/	/	(*) 785	600	/	/	(*) 805	403
2 m	/	/	(*) 1.005	580	(*) 825	365	(*) 805	330
1 m	/	/	(*) 1.325	545	(*) 1.000	415	(*) 830	305
0 m	(*) 2.680	985	(*) 1.450	530	(*) 940	350	(*) 855	320
-1 m	(*) 2.155	975	(*) 1.270	530	/	/	(*) 870	395

Unit: kgf

Arm length 1.660 mm								
A	2	2 m 3 m		m	4 m		Max. outreach	
В	Front.	360°	Front.	360°	Front.	360°	Front.	360°
3 m	/	/	/	/	(*) 660	370	(*) 675	335
2 m	/	/	(*) 815	585	(*) 720	365	(*) 695	280
1 m	(*) 2.490	990	(*) 1.190	545	(*) 845	350	(*) 720	265
0 m	(*) 2.820	945	(*) 1.410	520	(*) 925	340	(*) 755	275
-1 m	(*) 2.480	950	(*) 1.360	510	(*) 850	335	(*) 795	320

Unit: kgf

NOTE:

Ratings are based on ISO standard 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

- The values marked with an asterisk (*) are limited by the hydraulic capacities Calculations are based on the machine resting on a uniform and firm surface
- The lifting point is a hypothetical hook placed behind the bucket.

SPECIFICATIONS



ENGINE

The new generation engine has been developed to comply with the strictest emission controls (STAGE 2).

Model	Komatsu 3D84E-5
Туре	emissionised 4-cycle diesel engine
Displacement	1.496 cm ³
Bore × stroke	84 × 90 mm
No. of cylinders	3
Combustion	direct injection
Aspiration	natural
Net power (SAE J1349)	20,6 kW / 27,6 HP @ 2.500 rpm
Max. torque	94,6 Nm @ 1.500 rpm
Cooling system	water
	dry
Startingel	lectric 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 speed......9,3 rpm



TRANSMISSION

Type......2 speed hydrostatic transmission, controlled and steered by means of two levers and two pedals Hydraulic motors2 × axial pistons Reduction system..... epiclyclic reduction gears Travel speed......2,6 - 4,6 km/h



OPERATING WEIGHT

Operating weight with standard bucket, fully serviced, +80 kg operator (ISO 6016)

operator (100 00 10).	
Operating weight with cab and rubber shoes	3.165 kg
Operating weight with cab and steel shoes	3.275 kg
Canopy17	5 kg (optional)
Additional counterweight	+190 ka



Type..... electro-welded, single unit structure Max. lifiting above ground level.......360 mm Max. depth below ground level......310 mm



UNDERCARRIAGE

Central lower casted X-frame and carriage fra	ame with boxed section.
Shoes (each side)	44
Track rollers (each side)	4
Shoe width	300 mm
Ground pressure (standard)	0.31 kg/cm ²



case.

HYDRAULIC SYSTEM

Type	Komatsu CLSS
Main pumpsvariable displa	acement pump + gear pump
Max. pump flow	72,7 + 20,6 ltr/min
Max. operating pressure:	
Working equipment	26 MPa (260 bar)
Hydraulic motors:	
Travel	2 × variable displacement
Swing	1 × fixed displacement
Hydraulic cylinders (bore × stroke):	
Boom	
Arm	75 × 495 mm
Bucket	65 × 490 mm
Boom swing	80 × 500 mm
Blade	
Bucket digging force (ISO 6015)	2.942 daN (3.000 kg)
Arm crowd force (ISO 6015):	
1.260 mm arm	1.765 daN (1.830 kg)
1.660 mm arm	1.491 daN (1.520 kg)

movements are stopped by lifting the safety levers on the tiltable

The digging equipment is fully controlled by PPC servo-controls. All

SERVICE CAPACITIES

ELECTRIC SYSTEM

Fuel tank	44 ltr
Radiator and system	3,3 ltr
Engine oil	7,2 ltr
Hydraulic system	40 ltr

Alternator......40 A

MINI-EXCAVATOR

STANDARD EQUIPMENT

- ROPS (ISO 3471) / FOPS (ISO 10262) Two speeds with "Automatic Shift tiltable cab with heating
- Sliding door
- Steel shoes
- Down'
- 1.260 mm digging arm
- 1 / 2 way auxiliary hydraulic circuit up to the boom
- Blade

- · Adjustable suspension seat
- · Lifting cylinder guard
- Working light on boom

OPTIONAL EQUIPMENT

- ROPS (ISO 3471) / FOPS (ISO 10262) tiltable canopy
- Rubber shoes
- 1.660 mm digging arm
- · Additional counterweight
- Air conditioning
- Bucket range (300 650 mm)
- 1.300 mm ditch cleaning bucket
- · Extension of the auxiliary hydraulic circuit up to the arm, with quick couplings
- Cocks for bucket cylinder
- Boom, arm and blade safety valves
- Overloading alarm
- Travel acoustic alarm
- Rotating beacon
- · Biodegradable oil
- · Rearview mirrors
- Cab/canopy working lights
- Front and top protection guards



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WESS002902 02/2005

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