

KOMATSU

PW98MR-6

OPERATING WEIGHT

8.620 - 9.400 kg

NET POWER

51 kW / 68,4 HP @ 2.000 rpm

BUCKET CAPACITY

0,077 - 0,282 m³

PW
98MR-6

MIDI-EXCAVATOR



PW98MR-6

WALK-AROUND

Tradition and innovation

The new PW98MR-6 compact midi-excavator is the result of expertise and technology that Komatsu has developed from over 80 years' experience. Developed with constant attention to the needs of customers all over the world, the PW98MR-6 is a user-friendly machine that delivers top-class performance. It has a tight tail swing and protrudes over the wheels by just 153 mm. So the operator can concentrate on the work in front, without having to worry about rear-swing impacts.

PRECISION

An advanced hydraulic system guarantees complete control – just what you'd expect from a Komatsu machine.

COMFORT

Thanks to extensive ergonomic testing, the PW98MR-6 offers an outstanding comfort level that allows the operator to work in the best conditions.

VERSATILITY

Developed specifically for applications that need compact machines, the PW98MR-6 combines small size with the performance of a traditional excavator.



**OPERATING WEIGHT**

8.620 - 9.400 kg

NET POWER

51 kW / 68,4 HP @ 2.000 rpm

BUCKET CAPACITY0,077 - 0,282 m³**R**ELIABILITY

All components are manufactured to the highest quality standards to maximise lifetimes and reduce downtime.

MAINTENANCE

Two openable hoods provide quick and easy access to all maintenance points – even in confined spaces.

SAFETY

In keeping with the Komatsu philosophy, the PW98MR-6 includes several features to guarantee maximum operator safety.

VISIBILITY

From the operator's seat, you have excellent visibility in all directions for total control of the surrounding area.



KEY FEATURES



ABSOLUTE CONTROL

The PPC servo controls require very little effort and ensure extremely precise control. Each movement has its own dedicated control, and can be used at the same time as the others. This simplifies and speeds up all working cycles. Smooth, precise movements combined with a perfect view of the working area guarantee maximum productivity in even the toughest jobs.

OPERATOR'S ENVIRONMENT

The cab provides a spacious and comfortable working environment. Particular attention has been paid to the internal layout including: easy-to-read instruments, a large console in front of the operator and an efficient heating / ventilation system with partial fresh air intake. The new air-condition system, which is available on request, ensures the perfect temperature whatever the weather.

Extensive noise-proofing reduces noise inside the cab, creating a more pleasant and comfortable working environment. Moreover, the strong cab design guarantees maximum safety in the event of a roll-over. Large windows, including an openable side window, and a special panel design provide outstanding 360° visibility. The upper-rail sliding door can be opened even in the most confined spaces and prevents dirt accumulating on the lower parts.



RELIABILITY AND OPERABILITY

The PW98MR-6 is fitted with an engine speed sensor to optimize the use of power. The power of the main pump is automatically adjusted according to the engine speed. This means the computerised system keeps the engine speed constant during high load conditions. With two hydraulic power modes, 'Power' and 'Economy', the operator can conveniently choose between maximum power and minimum fuel consumption.



MAINTENANCE

All periodic inspection points are easily accessible via two bonnets that can be opened even in confined areas. Inspection windows for the battery and fuel system enable quick and easy maintenance. O-ring face seal (ORFS) hydraulic connectors and DT electric connectors improve machine reliability and make repairs simpler and faster.

4-WHEEL STEERING

It's possible to select between 3 steering modes: 2-wheel steering (for travelling), 4-wheel steering (for fast, agile operation) and crab (for confined areas). This ensures outstanding versatility and manoeuvrability. It's easy and safe to change the steering mode: just push 2 switches at the same time on the new panel, and a green lamp will inform you of the steering mode selected. When working, the front-axel oscillation can be blocked for improved stability. An electronic device regulates the travel speed according to the steering mode selected. Thanks to the 4-speed transmission, the PW98MR-6 can easily reach speeds of 30 km/h.



HYDRAULIC SYSTEM

The PW98MR-6 is designed to meet all operators' needs in the any job – from the toughest to the most precise, and always in perfect safety. It's CLSS (Closed Load Sensing System) hydraulics ensures excellent control and unbeatable productivity even with less experienced operators. The pressure-compensated CLSS guarantees each actuator works according to its control input, independent of the load or how many actuators are operating simultaneously. This gives the operator precise control in any situation.

SPECIFICATIONS



ENGINE

Model Komatsu S4D95LE-3
 Type..... direct injection, water-cooled, emissionised, turbocharged
 No. of cylinders 4
 Displacement..... 3.260 cm³
 Rated capacity (SAE J1349).....51 kW / 68,4 HP @ 2.000 rpm
 Max. torque (80/1269/EC) 271 Nm @ 1.600 rpm



OPERATING WEIGHT

Operating weight, including 1.650 mm arm, 0,28 m³ bucket (ISO 7451), blade, operator, liquids, filled tank and standard equipment (ISO 6016).

	Width	Operating weight with two-piece boom
Basic version	2.316 mm	8.620 kg
With rear blade	2.350 mm	9.070 kg
With rear stabilizers	2.316 mm	9.220 kg
With blade and stabilizers	2.350 mm	9.400 kg



TRANSMISSION

Hydrostatic transmission with four driving wheels. The hydraulic motor acts by means of a synchromesh gear that makes for two speed ranges.

Maximum traction force5.690 daN (5.800 kg)
 Working speed 1st 6 km/h - 2nd 10 km/h
 Travelling speed3rd 23 km/h - 4th 30 km/h



AXLES

Driving and steering axles with epicyclic reduction gears in the hubs. The oscillation of the front axle can be blocked by means of two hydraulic pistons.

Tyres:
 Twin tyres (standard)8.25-20
 Single tyres (option) 18 - 19,5



STEERING

Hydraulically operated steering system that acts on the front and rear wheels by means of double rod hydraulic cylinders in the axles. The operator can select three kinds of steering by means of an electric switch:

- two steering wheels
- four steering wheels
- crab steering

Steering radius:
 Two steering wheels 6.010 mm
 Four steering wheels..... 4.040 mm



HYDRAULIC SYSTEM

Type..... Komatsu „CLSS“
 Power modes2 (Power/Economy)
 Main pumps:
 Pump for..... boom, arm, bucket and travelling
 Type..... variable displacement, axial piston
 Maximum flow 165 ltr/min
 Pump for..... swing and blade
 Type..... fixed displacement gear pump
 Maximum flow 66 ltr/min
 Auxiliary hydraulic flow 145 ltr/min
 Relief valve settings:
 Swing and blade.....21,1 MPa (215 kg/cm²)
 Travel and work equipment.....26,5 MPa (270 kg/cm²)
 Bucket breakout force (ISO 6015)6.129 daN (6.250 kg)
 Arm breakout force, 1.650 mm arm (ISO 6015) ... 4.148 daN (4.230 kg)



SWING SYSTEM

Driven by hydraulic motor
 Swing reduction gear with double epicyclic reduction
 Swing circle lubricationgrease-bathed
 Swing brakes..... automatic, with oil immersed discs
 Swing speed..... 10 rpm



BRAKES

Service and emergency brakes:
 Hydraulically controlled, with pedal, by means of two double circuit pumps, acting on oil immersed multiple discs on the four wheels.
 Working brakes:
 Hydraulically controlled by means of a pedal, acting on the four wheels
 Parking brakes:
 Negative type brakes, hydraulically controlled by means of an electric push button positioned inside the cab, acting on the rear axle. The parking brake is automatically operated every time the engine cuts off with a consequent decrease of the oil pressure.



ELECTRIC SYSTEM

Voltage 24 V
 Battery2 × 65 Ah
 Alternator60 A
 Starter motor 3 kW



SERVICE CAPACITIES

Fuel tank..... 125 ltr
 Cooling system..... 18 ltr
 Engine oil 10,5 (10) ltr
 Hydraulic oil tank..... 110 (64) ltr



CAB

Sound-proof cab, provided with safety glasses, liftable windscreen, roof window with protection grid, sliding door with lock, windscreen-wiper, electric horn, adjustable seat with double slide, control system and instrumentation, adjustable joysticks. Outside air inlet.

SPECIFICATIONS



LIFTING CAPACITY

A – Reach from swing centre

B – Height at bucket pin

– Rating over front

– Rating over side

DATAS AND SPECIFICATIONS ARE REFERRING TO THE MACHINE ACCORDING TO 89/392/CE AND EN 474-5 DIRECTIVES.

When removing bucket, linkage or cylinder, lifting capacities can be increased by their respective weights.

Lifting capacities with 800 mm bucket (236 kg), twin tyres (8.25-20), blade, levers and cylinder.

With blade up

B \ A	3,0 m		4,0 m		5,0 m		6,0 m	

Arm length 1.650 mm	3,0 m	kg	2.400*	2.400*	1.500	1.400	1.050	950	800	700
	1,5 m	kg	2.340*	2.340*	1.400	1.300	1.000	900	750	650
	0,0 m	kg	2.450*	2.100	1.350	1.250	900	800	700	600
	-1,5 m	kg	2.500*	2.100	1.350	1.250	900	800	---	---

without additional counterweight

Arm length 1.900 mm	3,0 m	kg	---	---	1.550	1.450	1.100	1.000	850	750
	1,5 m	kg	2.200*	2.200*	1.450	1.350	1.050	950	800	700
	0,0 m	kg	2.400*	2.000	1.400	1.300	950	850	750	650
	-1,5 m	kg	2.450*	2.000	1.400	1.300	950	850	750	650

with 215 kg additional counterweight

Arm length 2.250 mm	3,0 m	kg	---	---	1.600	1.500	1.150	1.050	900	800
	1,5 m	kg	---	---	1.500	1.400	1.100	1.000	850	750
	0,0 m	kg	2.300*	1.900	1.450	1.350	1.000	900	800	700
	-1,5 m	kg	2.350*	1.900	1.450	1.350	1.000	900	800	700

with 464 kg additional counterweight

With blade at ground level

B \ A	3,0 m		4,0 m		5,0 m		6,0 m	

Arm length 1.650 mm	3,0 m	kg	2.400*	2.400*	2.250*	1.500	2.100*	1.050	1.950*	800
	1,5 m	kg	2.340*	2.340*	2.200*	1.400	2.050*	1.000	1.900*	750
	0,0 m	kg	2.450*	2.450*	2.300*	1.350	2.150*	950	2.000*	700
	-1,5 m	kg	2.500*	2.500*	2.350*	1.350	2.200*	900	---	---

without additional counterweight

Arm length 1.900 mm	3,0 m	kg	---	---	2.200*	1.550	2.050*	1.100	1.900*	850
	1,5 m	kg	2.200*	2.200*	2.150*	1.450	2.000*	1.050	1.850*	800
	0,0 m	kg	2.400*	2.400*	2.250*	1.400	2.100*	1.000	1.950*	750
	-1,5 m	kg	2.450*	2.450*	2.300*	1.400	2.150*	950	2.000*	750

with 215 kg additional counterweight

Arm length 2.250 mm	3,0 m	kg	---	---	2.150*	1.600	2.000*	1.150	1.850*	900
	1,5 m	kg	---	---	2.100*	1.500	1.950*	1.100	1.800*	850
	0,0 m	kg	2.300*	2.300*	2.200*	1.450	2.050*	1.050	1.900*	800
	-1,5 m	kg	2.350*	2.350*	2.250*	1.450	2.100*	1.000	1.950*	800

with 464 kg additional counterweight

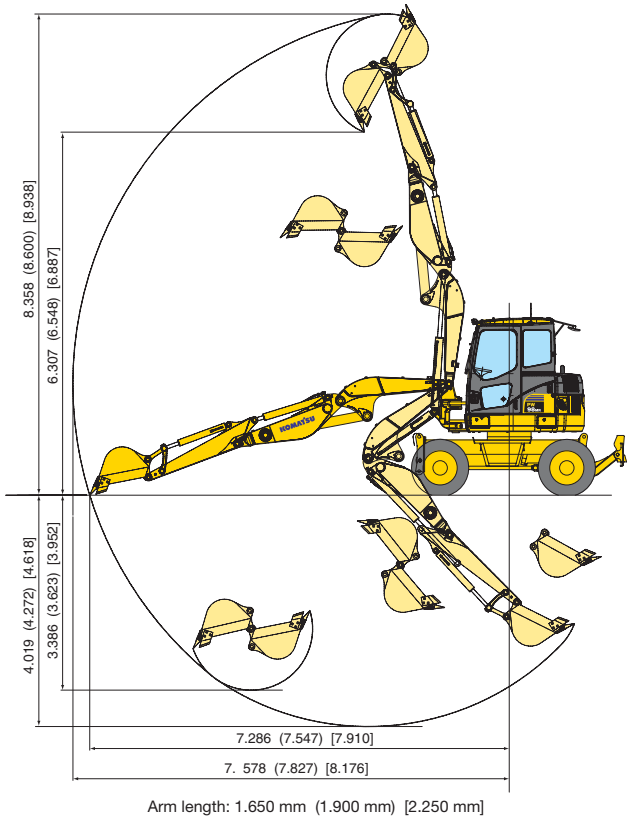
NOTE:

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

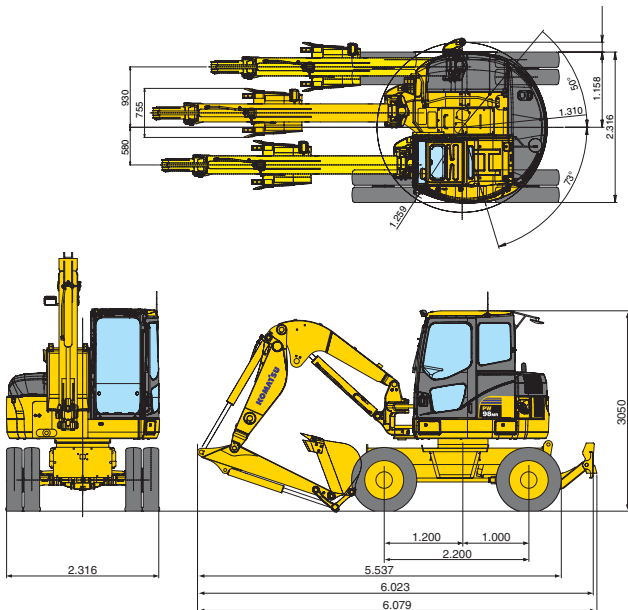
- The values marked with an asterisk (*) are limited by the hydraulic capacities
- Calculations are based on the machine resting on a uniform and firm surface
- The lifting point is a hypothetical hook placed behind the bucket.



WORKING RANGE



DIMENSIONS



BUCKET RANGE

Bucket capacity	m ³	0,077	0,109	0,181	0,235	0,282
Bucket width (without cutting edge)	mm	350	450	550	650	750
Bucket width (with cutting edge)	mm	450	550	650	750	825

MIDI-EXCAVATOR

STANDARD EQUIPMENT

- | | | | |
|---|---|---|---|
| <ul style="list-style-type: none"> • Two-piece boom with cylinder protection • 1.650 mm digging arm • 4-wheel steering • Twin tyres 8.25-20 • Cab with heating • Adjustable seat with safety belt | <ul style="list-style-type: none"> • Instrumentation including: <ul style="list-style-type: none"> - hour meter - LCD fuel level indicator - LCD engine water temperature indicator - two travel speed - working mode selection - indicators: air filter clogging, oil pressure, generator, hydraulic oil filter, engine pre-preheating, selected speed | <ul style="list-style-type: none"> • Horn • 12 V internal electric plug • Working light on boom • Automatic parking brake • Swing lock • Adjustable element for attachment • Hose burst valve on boom cylinder | <ul style="list-style-type: none"> • Overload warning device • Double element air filter • Rearview mirror (left side) • Lateral mirror (left side) |
|---|---|---|---|

OPTIONAL EQUIPMENT

- | | | | |
|--|--|--|--|
| <ul style="list-style-type: none"> • Stabilisers and/or blade with safety valve • Air conditioning • Digging arm (1.900/2.250 mm) • Single tyres 18-19.5 • Rear working light on cab • 1 front working light on cab • 2 front working lights on cab | <ul style="list-style-type: none"> • Additional working light on boom • Radio • Lateral mirror (right side) • 2nd and 3rd auxiliary hydraulic line for 3 simultaneous movements and hydraulic quick-coupler • Bucket range (350 ÷ 750 mm) | <ul style="list-style-type: none"> • Ditch cleaning bucket (1.500 mm) • Ditch digging bucket (1.650 mm / 52°) • Additional counterweight (215 or 464 kg) • Rotating beacon | <ul style="list-style-type: none"> • Travel acoustic alarm • Relieve valve for attachment circuit • Safety valve for digging arm • Final cocks on attachment circuit |
|--|--|--|--|



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