

KOMATSU®

PW75R-2

OPERATING WEIGHT

7.700 - 9.000 kg

NET POWER

47,4 kW / 63,6 HP @ 2.300 rpm

BUCKET CAPACITY

0,086 - 0,265 m³

PW
75R-2



MIDI-EXCAVATOR

PW75R-2

WALK-AROUND

The PW75R-2 belongs to the series of Komatsu Midi-excavators, which offers:

- unique versatility and excellent manoeuvrability in any working condition;
- compact size, main feature of this machine, together with high digging force and excellent stability.

Performance

The PW75R-2 has been renovated to meet special space needs, not neglecting high digging force and excellent stability: it combines traditional features with extremely compact dimensions. The PW75R-2 has been developed to satisfy all requirements: from heavy-duty tasks to more precise finishing operations, always ensuring maximum operator safety. The electronic system monitors the travelling speed according to the selected steering mode and prevents the operator from not allowed operations. The hydrostatic, four-speed transmission let the machine reach a 30 km/h top speed.

Hydraulic System

The PW75R-2 is equipped with the **CLSS (Closed Load Sensing System)** hydraulic system: this ensures excellent control and unbeatable productivity, even with less experienced operators. Two different hydraulic power modes can be selected, "Power" and "Economy", depending on the operation to be performed: maximum power if necessary, reduced power to save on fuel for general work or finishing operations.



OPERATING WEIGHT

7.700 - 9.000 kg

NET POWER

47,4 kW / 63,6 HP @ 2.300 rpm

BUCKET CAPACITY0,086 - 0,265 m³**Engine**

The KOMATSU engine supplies a 47,4 kW / 63,6 HP net power, providing high torque reserve and, above all, reliability. The innovative combustion system guarantees emissions in accordance with the strictest European standards (Stage 2).

Total Comfort

The spacious cab, the **PPC** servo-controls, the low noise and the possibility to supply the machine with optional equipment (air conditioning, radio, etc...) confirm the special attention KOMATSU pays in ensuring the best working conditions to the operator.

**Versatility**

The PW75R-2 can be customised to satisfy all requirements: two-piece boom (standard) or mono-boom, short or long digging arm, single or twin tyres, blade or stabilisers. In addition, the possibility to adjust the flow-rate and the pressure of the auxiliary lines allows the use of numerous attachments with different specifications.

Easy Manoeuvrability

The three steering modes consent the operator to smoothly and precisely move the machine whatever the conditions. While working, the front axle lock enhances the stability.

STRONG POINTS



Operator's Environment

The spacious and ergonomic cab is mounted on four elastic supports, thus providing a silent and comfortable working environment. The internal layout is characterised by easy-to-read instruments, a large front console and an efficient heating and ventilation system, with partial fresh air intake. The air-conditioning system, available upon request, ensures the ideal temperature in all climatic conditions and guarantees maximum comfort to the operator. The large glazed surface, the sunroof and the special design for the bonnets offer 360° visibility.



Panel

On the panel on the right, the operator can find a user-friendly console, together with the working mode and the steering mode selection switches.



Auxiliary Hydraulic Circuit

The 1 / 2 way auxiliary hydraulic circuit, supported by the flow and pressure control system, allows the use of several tools for different purposes: hammer, clamshell buckets and so on.



Maintenance

All the PW75R-2 service points have been grouped under two fully-opening bonnets, making them easy to reach from the ground; additionally, all the hydraulic hoses are fitted with ORFS couplings, which ensure better seal and easy replacement if required.

LIFTING CAPACITY

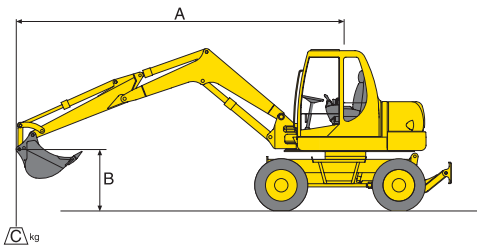


MONO BOOM

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

A	Reach from swing center
B	Bucket hook height
C	Lifting capacities, including bucket (800 mm / 196 kg), bucket linkage and bucket cylinder
	Rating over front
	Rating over side (360°)



With Blade and Stabilisers Up

B \ A				3,0 m		4,5 m		Max. outreach	
1.700 mm	4,5 m	kg	-	-	-	-	1.050*	700	
	3,0 m	kg	-	-	1.200*	1.000	1.150*	700	
	1,5 m	kg	2.800*	2.000	1.250*	950	1.200*	650	
	0,0 m	kg	2.800*	2.050	1.400*	900	1.350*	600	
	-1,5 m	kg	2.750*	1.950	1.500*	850	1.450*	700	
2.100 mm	4,5 m	kg	-	-	-	-	1.000	650	
	3,0 m	kg	-	-	1.150*	950	1.100*	650	
	1,5 m	kg	2.800*	1.950	1.200*	900	1.150*	600	
	0,0 m	kg	2.750*	2.000	1.350*	850	1.300*	550	
	-1,5 m	kg	2.700*	1.900	1.450*	800	1.400*	650	

With Blade and Stabilisers at Ground Level

B \ A				3,0 m		4,5 m		Max. outreach	
1.700 mm	4,5 m	kg	-	-	-	-	1.150*	750	
	3,0 m	kg	-	-	1.300*	1.100	1.250*	750	
	1,5 m	kg	2.900*	2.900*	1.350*	1050	1.300*	700	
	0,0 m	kg	2.850*	2.850*	1.500*	1000	1.450*	650	
	-1,5 m	kg	2.800*	2.800*	1.600*	950	1.550*	750	
2.100 mm	4,5 m	kg	-	-	-	-	1.100*	700	
	3,0 m	kg	-	-	1.250*	1050	1.200*	700	
	1,5 m	kg	2.850*	2.850*	1.300*	1000	1.250*	650	
	0,0 m	kg	2.800*	2.800*	1.450*	950	1.400*	600	
	-1,5 m	kg	2.750*	2.750*	1.550*	900	1.500*	700	

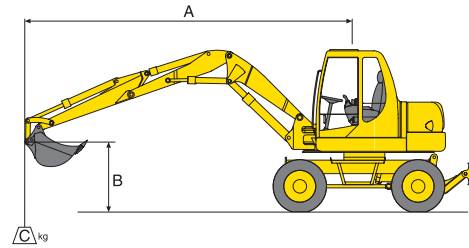


TWO-PIECE BOOM

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

A	Reach from swing center
B	Bucket hook height
C	Lifting capacities, including bucket (800 mm / 196 kg), bucket linkage and bucket cylinder
	Rating over front
	Rating over side (360°)



With Blade and Stabilisers Up

B \ A				3,0 m		4,5 m		Max. outreach		
1.700 mm	4,5 m	kg	-	-	-	-	1.100	1.000	650	500
	3,0 m	kg	-	-	-	-	1.100	950	600	450
	1,5 m	kg	-	-	-	-	1.200	900	550	400
	0,0 m	kg	2.400*	1.800	1.200	850	550	350		
	-1,5 m	kg	2.500*	1.500	1.100	700	650	500		
2.100 mm	4,5 m	kg	-	-	-	-	1.000	950	600	450
	3,0 m	kg	-	-	-	-	1.000	900	550	400
	1,5 m	kg	-	-	-	-	1.100	850	500	350
	0,0 m	kg	2.300*	1.750	1.100	800	500	300		
	-1,5 m	kg	2.400*	1.450	1.000	650	600	450		

With Blade and Stabilisers at Ground Level

B \ A				3,0 m		4,5 m		Max. outreach		
1.700 mm	4,5 m	kg	-	-	-	-	1.200*	1.050	1.100*	600
	3,0 m	kg	-	-	-	-	1.200*	1.000	1.000*	550
	1,5 m	kg	-	-	-	-	1.250*	950	950*	500
	0,0 m	kg	2.500*	1.900	1.250*	900	1050*	450		
	-1,5 m	kg	2.600*	1.600	1.150*	850	1.150*	600		
2.100 mm	4,5 m	kg	-	-	-	-	1.100*	1.000	1.000*	550
	3,0 m	kg	-	-	-	-	1.100*	950	900*	500
	1,5 m	kg	-	-	-	-	1.150*	900	850*	450
	0,0 m	kg	2.400*	1.850	1.150*	850	950*	400		
	-1,5 m	kg	2.500*	1.550	1.100*	800	1.050*	550		

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

Model..... Komatsu 4D98E-2XFB
 Type..... emissionised, direct injection
 No. of cylinders 4
 Rated power:
 (80/1269/EC)..... 47,4 kW / 63,6 HP @ 2.300 rpm
 Max. torque (80/1269/EC)237 Nm @ 1.500 rpm
 Displacement..... 3.318 cm³



OPERATING WEIGHT

Operating weight including 1.700 mm arm, bucket with 0,265 m³ ISO 7451 capacity, blade, operator, lubricants, liquids, filled tank and standard equipment (ISO 6016):

	Tread width (mm)	Operating weight with mono boom (kg)	Operating weight two-piece boom (kg)
Basic version	2.310	7.700	8.050
With rear blade	2.350	8.200	8.550
With 4 stabilisers	2.310	8.300	8.650
With blade and stabilisers	2.350	8.650	9.000



HYDRAULIC SYSTEM

Type..... "CLSS" closed-centre system
 No. of selectable working modes.....2 (Power/Economy)
 Main pumps:
 Pump for..... boom, arm, bucket and travelling
 Type..... variable displacement, axial piston
 Maximum pump flow 167 ltr/min
 Pump for..... steering, swing, equipment, blade
 Type..... fixed displacement gear pump
 Maximum pump flow 62 ltr/min
 Relief valve settings:
 Swing 21,6 MPa (216 bar)
 Digging equipment..... 26,5 MPa (265 bar)
 Bucket digging force (ISO 6015)..... 5.180 daN (5.280 kg)
 Arm crowd force (1.700 mm) (ISO 6015)..... 3.820 daN (3.895 kg)



TRANSMISSION AND AXLES

Hydrostatic transmission with four driving wheels. The hydraulic motor acts by means of a synchromesh gear that makes for two speed ranges.
 Max. drawbar pull 5.178 daN (5.280 kg)
 Working speed..... 1° 4 km/h - 2° 9 km/h
 Travelling speed..... 3° 13 km/h - 4° 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) 7.50 - 20
 Single tyres (option)..... 400/70 - R18



SWING SYSTEM

Driven by hydraulic motor
 Swing reduction gear.....with double epicyclic reduction
 Swing circle lubrication grease-bathed
 Swing brakesautomatic, with oil immersed discs
 Swing speed 10,2 rpm



BRAKE SYSTEM

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.



STEERING SYSTEM

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
 Minimum turning radius:
 two steering wheels 6.000 mm
 four steering wheels 4.050 mm



ELECTRIC SYSTEM

Voltage..... 12 V
 Battery 1 × 120 Ah
 Alternator.....60 A
 Starter motor 3,0 kW



CAB

Sound-proof cab, provided with safety glasses, liftable wind-screen, "manhole" roof, door with safety lock, windscreen-wiper, electric horn, adjustable seat, control system and instrumentation. Outside air inlet.



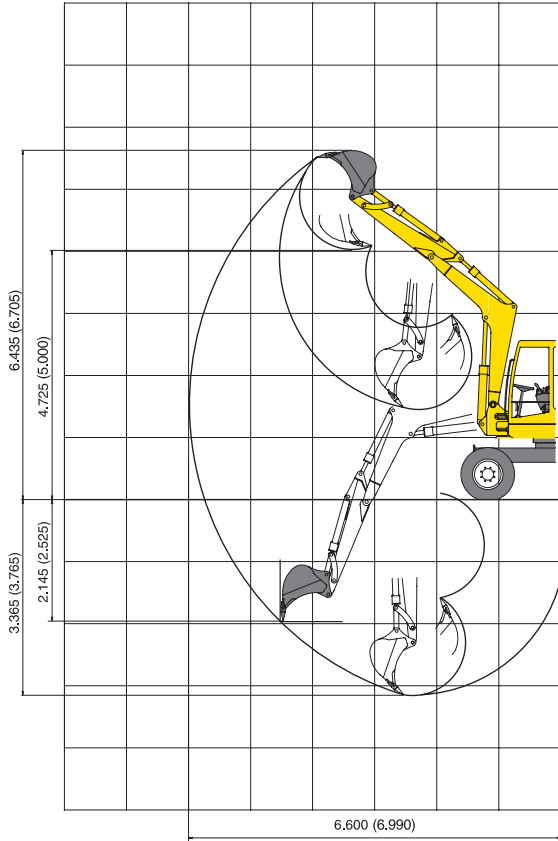
SERVICE CAPACITIES

Fuel tank..... 100 ltr
 Cooling system 15 ltr
 Engine oil..... 9,4 ltr
 Hydraulic tank..... 70 ltr

DIMENSIONS & WORKING RANGE



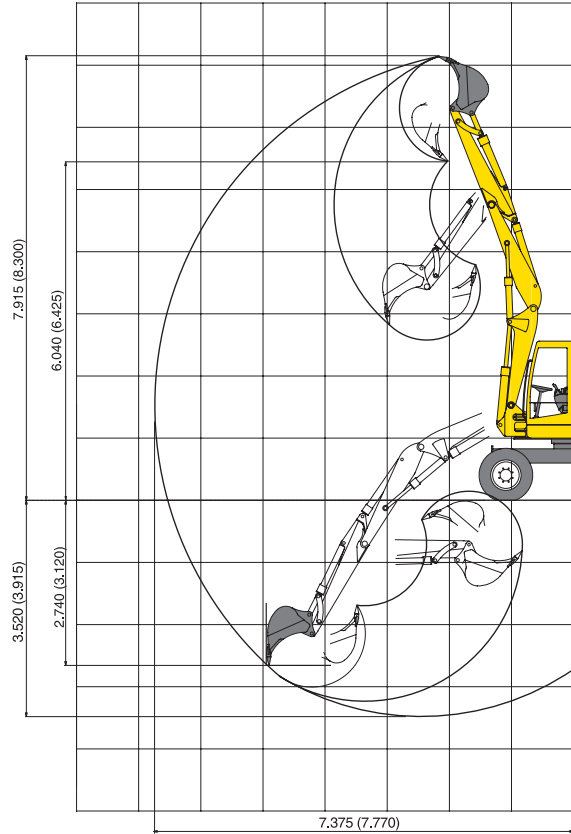
MONO BOOM



arm 1.700 (2.100)



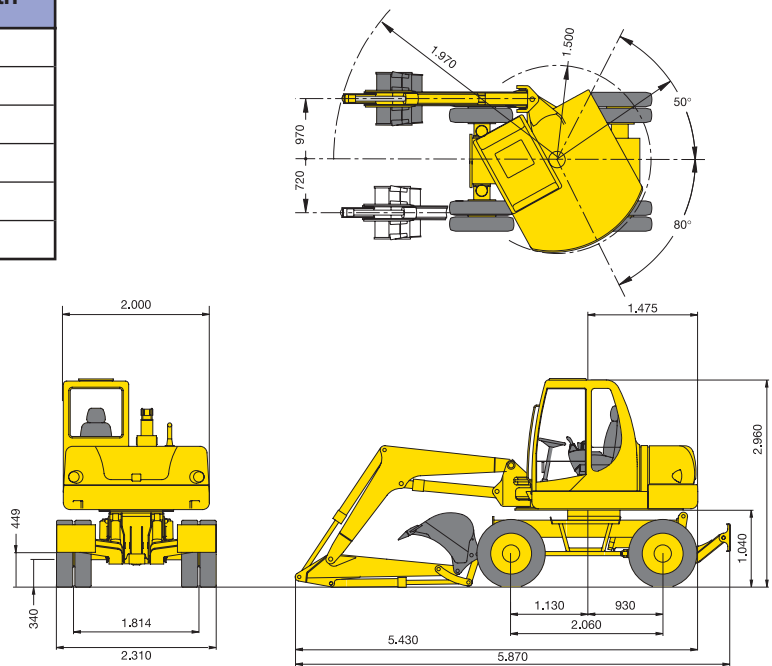
TWO-PIECE BOOM



arm 1.700 (2.100)

Dimensions

BUCKET RANGE			
Width mm	Capacity m ³ (ISO7451)	Weight kg	No. of teeth
300	0,086	128	2
400	0,128	160	3
500	0,171	184	3
600	0,2	174	4
700	0,232	189	4
800	0,265	196	4



MIDI-EXCAVATOR

STANDARD EQUIPMENT

- | | | | |
|--|--|--|--|
| <ul style="list-style-type: none"> • Komatsu Stage 2 aspirated engine • Two-piece boom with lifting cylinder protection • 1.700 mm arm • Twin tyres 7.50 – 20 • 4 steering wheels & 4 wheel drive • Cab with heating • Adjustable seat with safety belt | <ul style="list-style-type: none"> • Instrumentation including hour meter, fuel level LCD display, water temperature LCD display, indicators: engine oil pressure, generator, air and hydraulic oil filter clogging, engine pre-heating, parking brake, rear axle lock, selected speed, working light | <ul style="list-style-type: none"> • Horn • 12 V external power supply • 2 front working lights • Automatic parking brake • Safety valves on blade and boom cylinders | <ul style="list-style-type: none"> • Swing lock • Adjustable element for attachment • Double element type air cleaner • Rotating beacon • Overload warning device |
|--|--|--|--|

OPTIONAL EQUIPMENT

- | | | | |
|---|---|--|--|
| <ul style="list-style-type: none"> • Air conditioning • Mono boom • Stabilisers and/or blade with safety valve • Safety valves on arm and bucket • 2.100 mm arm • Single tyres 400/70 – R18 | <ul style="list-style-type: none"> • Twin tyres 8.25 - 20 • Auxiliary hydraulic circuit for hammer/clamshell bucket/mower • OPG Level II top guard (FOPS) • OPG front guard (FOPS) • Bucket range (300 - 800 mm) • Ditch cleaning bucket (1.500 mm) | <ul style="list-style-type: none"> • Ditch digging bucket (1.650 × 300 mm / 52°) • Mechanical or hydraulic quick coupler • Additional counterweight (150 kg) • Working light on boom • Rearview mirror (right side) | <ul style="list-style-type: none"> • Biodegradable oil • Fuel supply pump • Radio • Travel acoustic alarm • Rain visor • Relieve valve for equipment spool |
|---|---|--|--|



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