

KOMATSU®

PC78MR-6

FLYWHEEL HORSEPOWER
40.5 kW **54 HP** @ 1850 rpm

OPERATING WEIGHT
8270 kg **18,230 lb**

BUCKET CAPACITY
0.28 m³ **0.37 yd³**

PC
78MR

COMPACT HYDRAULIC
EXCAVATOR

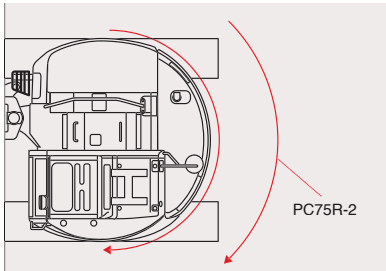


Photo may include optional equipment.

WALK-AROUND

Tight Tail Swing

Operators can focus more on the work in front of them and worry less about rear swing impact even in confined areas with only 150 mm 6" protrusion over the tracks.



Swing Boom

The PC78MR-6 efficiently works against side walls by utilizing swing boom.

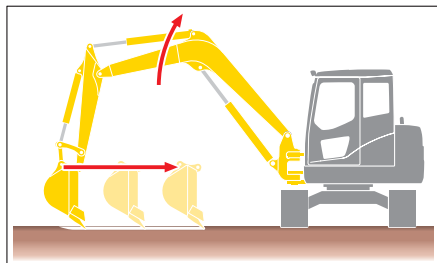
Two Working Modes gives a choice between extra workload and low fuel consumption.

Back Fill Blade

The PC78MR-6 features a standard back fill blade that can quickly and conveniently fill trenches and clean-up jobsites.

New Pressure-Compensated CLSS HydraMind Hydraulic System

Even when two or more actuators are operated simultaneously, the PC78MR-6's pressure-compensated CLSS system ensures each actuator works according to its control input without affecting the size of the load. This gives the operator precise control at all times.



Powerful Engine With Turbocharger

Engine is EPA Tier 2 emissions certified.



High production and low fuel consumption.

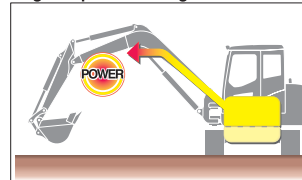


Photo may include optional equipment.

Engine Speed Sensing = Optimum Power

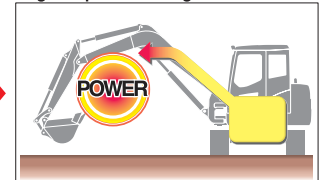
Power utilized by main pump is adjusted automatically in accordance with the engine speed. That means this computerized system keeps engine speed even under high load conditions.

Engine speed sensing not installed



Engine speed can be dropped under high load condition. Maximum pump power must be limited to prevent engine speed down.

Engine speed sensing installed



Engine speed is maintained even under high load condition. Pump can utilize full potential power of engine all the time.

PRODUCTIVITY FEATURES

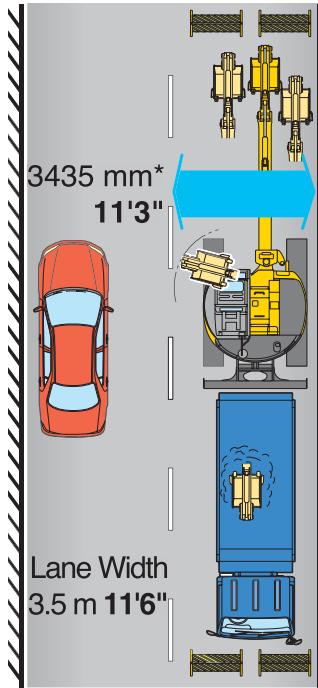
FLYWHEEL HORSEPOWER
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Advantage Even in Confined Job Site

Road & Bridge Work



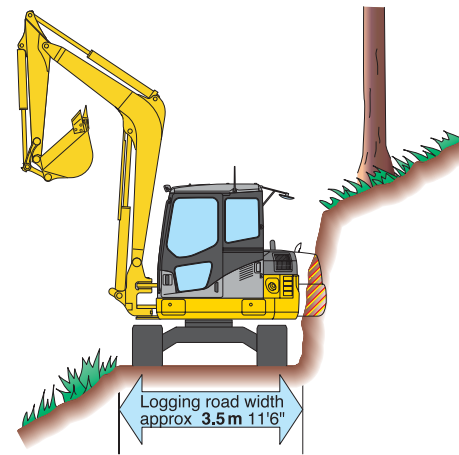
*: When boom swing

Against Side Wall

PC78MR-6 works efficiently by utilizing swing boom.

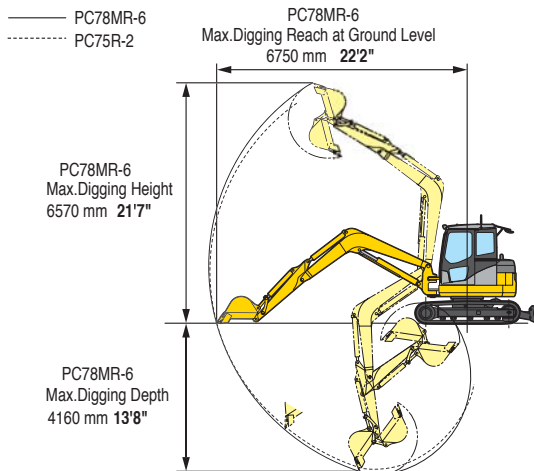


Road Construction



Wide Working Ranges

	PC78MR-6	PC75R-2
Max. digging Height	6570 mm 21'7"	6420 mm 21'0"
Max. Digging Depth	4160 mm 13'8"	4050 mm 13'3"
Max. Digging Reach at Ground Level	6750 mm 22'2"	6820 mm 22'4"

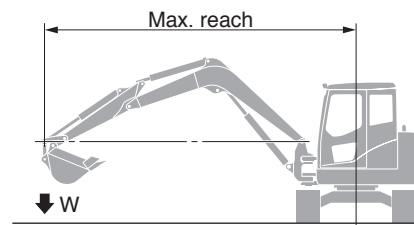


High Stability

The PC78MR-6 offers exceptional lifting capacity and high stability.

	PC78MR-6	PC78MR-6 with additional counter weight	PC75R-2
3 m 9'	2000 kg 4,420 lb	2090 kg 4,610 lb	1900 kg 4,190 lb
Rating at max. reach	760 kg 1,690 lb	820 kg 1,810 lb	800 kg 1,760 lb

The conditions of this comparison are a standard arm, sideways, blade on ground, and at a height of 0 m (ground level).



OPERATOR ENVIRONMENT

Comfortable Operator's Cab

The cab offers comfort and space to help the operator become even more confident and productive. The ergonomically designed features help reduce fatigue and increase focus on the job at hand. The low noise levels of the engine helps reduce fatigue and can make the operator even more comfortable.

Low Noise Design Cab

73dB(A)



Suspension Seat with Retractable Seat Belt

Upper-rail type sliding door opens and closes smoothly.



Housing the wiper motor has greatly improved visibility.



Monitor panel improves visual confirmation ability.

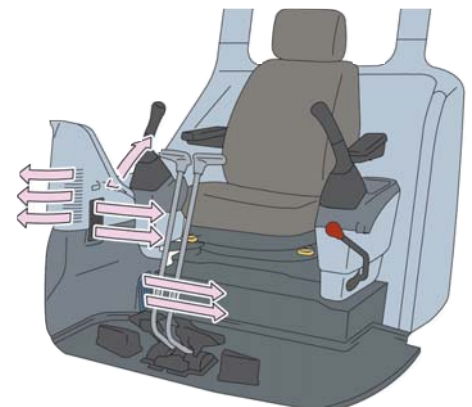


Better dump visibility



Cup holder

Large capacity air conditioning system combined with carefully placed vents provide optimum cool air flow.



EASY MAINTENANCE

Engine hood can be opened and closed even in confined areas.

Control pattern change valve



Whether you are comfortable with ISO or Backhoe control patterns, you can easily change from one to the other.



Air cleaner with easily replaceable element

Aluminum oil cooler and radiator are corrosion resistant and easy to clean

One fuel system inspection window for fast and easy maintenance



Wide-opening side hood makes everyday inspection simple

Large and accessible toolbox

Main valve can be easily inspected

Window washer tank is easy to check and refill



Smaller and longer lasting Ecowhite hydraulic oil filter element

Battery inspection window enables instant check of fluid level

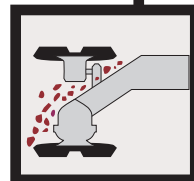
Work equipment greasing interval is 250 h (100 h for armtop only)

Large fuel filler with strainer



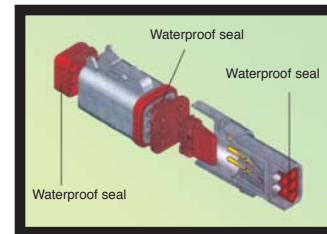
Larger opening reduces fuel back splash.

Inclined track frame



The sloped track frame deters the accumulation of dirt and is easily cleaned.

DT Connector



Water-resistant DT connectors are used for the parts which water will be splashed over.

Face Seal



O-ring face seals having high sealing performance are used for the hydraulic piping joints.

PC78MR-6 HYDRAULIC EXCAVATOR

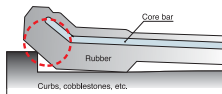
OPTIONS

Roadliner Ideal performance has been achieved with combining the merits of rubber and the strengths of steel in the new Road Liner shoes. Road Liners can last up to twice as long as rubber tracks under most normal operating conditions. Similar to all rubber tracks, pavement is not easily damaged. Replacement is fast and easy. Increased cost reductions are possible by replacing only the damaged or worn-out shoes, which differs from the need to replace a full rubber or steel track.



Reinforced Type

Rubber thickness has been upgraded using a new type of core bar, and this section that is often sheared, has been reinforced.



Optional Blade



Bolt-on cutting edge type.

X-Weight

(Additional Counter Weight)



Advanced X-weight design for increased lift capacity and easy installation.



LIFTING CAPACITY

PC78MR-6		Arm : 1650 mm 5'5"		Bucket width : 650 mm 26.0"		Shoe width : 450 mm 18"		Blade on ground		Unit : kg lb	
		1.5 m 4'		3.0 m 9'		4.5 m 14'		Maximum			
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
5.0 m										*1590	1360
16'										*3520	3010
3.0 m				*2680	2450	*1955	1230	*1865	820	*4120	1810
9'				*5910	5420	*4320	2720	*4120	1810		
0.0 m				*4725	2000	*3140	1070	*2390	760	*5270	1690
0'				*10420	4420	*6920	2360				
-2.0 m		*6040	1100	*4890	2070			*3060	1210		
-6'		*13310	2420	*10780	4570			*6750	2680		

*Load is limited by hydraulic capacity rather than tipping. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC78MR-6		Arm : 1650 mm 5'5"		Bucket width : 650 mm 26.0"		Shoe width : 450 mm 18"		Blade on ground		Addition counterweight		Unit : kg lb	
		1.5 m 4'		3.0 m 9'		4.5 m 14'		Maximum					
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs		
5.0 m										*1590	1435		
16'										*3520	3150		
3.0 m				*2680	2550	*1955	1300	*1865	880	*4120	1940		
9'				*5910	5620	*4320	2860	*4120	1940				
0.0 m				*4725	2090	*3140	1135	*2390	820	*5270	1810		
0'				*10420	4610	*6920	2500	*5270	1810				
-2.0 m		*6040	1130	*4890	2165			*3060	1285				
-6'		*13310	2490	*10780	4770			*6750	2830				

*Load is limited by hydraulic capacity rather than tipping. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC78MR-6		Arm : 2250 mm 7'5"		Bucket width : 650 mm 26.0"		Shoe width : 450 mm 18"		Blade on ground		Unit : kg lb	
		1.5 m 4'		3.0 m 9'		4.5 m 14'		Maximum			
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
5.0 m										*1335	1050
16'										*2940	2330
3.0 m						*1530	1270	*1530	690	*3370	1530
9'						*3390	2800	*3370	1530		
0.0 m				*4715	1960	*2960	1050	*2045	630	*4510	1400
0'				*10400	4330	*6520	2320	*4510	1400		
-2.0 m		*4470	*4470	*5380	1970	*3020	1030	*2615	890		
-6'		*9860	*9860	*11860	4360	*6660	2270	*5750	1970		

*Load is limited by hydraulic capacity rather than tipping. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC78MR-6		Arm : 2250 mm 7'5"		Bucket width : 650 mm 26.0"		Shoe width : 450 mm 18"		Blade on ground		Addition counterweight		Unit : kg lb	
		1.5 m 4'		3.0 m 9'		4.5 m 14'		Maximum					
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs		
5.0 m										*1320	1150		
16'										*2920	2530		
3.0 m						*1530	1380	*1530	760	*3370	1690		
9'						*3390	3040	*3370	1690				
0.0 m				*4715	2150	*2960	1160	*2045	710	*4510	1560		
0'				*10400	4750	*6520	2560	*4510	1560				
-2.0 m		*4470	*4470	*5380	2160	*3020	1140	*2615	990				
-6'		*9860	*9860	*11860	4770	*6660	2510	*5760	2180				

*Load is limited by hydraulic capacity rather than tipping. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

SPECIFICATIONS



ENGINE

ModelKomatsu S4D95LE-3*
 TypeWater-cooled, 4-cycle, direct injection
 AspirationTurbocharged
 Number of cylinders4
 Piston displacement3.26 ltr **199 in³**
 Flywheel Horsepower (SAE J1349 NET)40.5 kW **54 HP** @ 1850 rpm
 *EPA Tier 2 emissions certified.



HYDRAULICS

TypeHydraMind (Hydraulic Mechanical Intelligence New Design) system,closed-center system with load-sensing valves and pressure-compensated valves

Pump:

For implementVariable displacement axial piston
 Maximum flow80.0 ltr x 2 = 160 ltr/min **42.2 U.S. gal/min**
 For swing and bladeFixed displacement gear
 Maximum flow60 ltr/min **15.9 U.S. gal/min**
 Auxiliary Hydraulic flow (opt)123 ltr/min **32.5 U.S. gal/min**

Valve rating:

Relief valve setting for implement270 kgf/cm² **3,839 psi**
 Relief valve setting for swing and blade210 kgf/cm² **2,986 psi**
 Bucket digging force (ISO)6250 kg **13,780 lb**
 Arm crowd force (ISO) with arm length4230 kg **9,330 lb**



ELECTRICAL SYSTEM

Operating voltage24 V
 Battery55 Ah
 Alternator24 A
 Starter3.0 kW

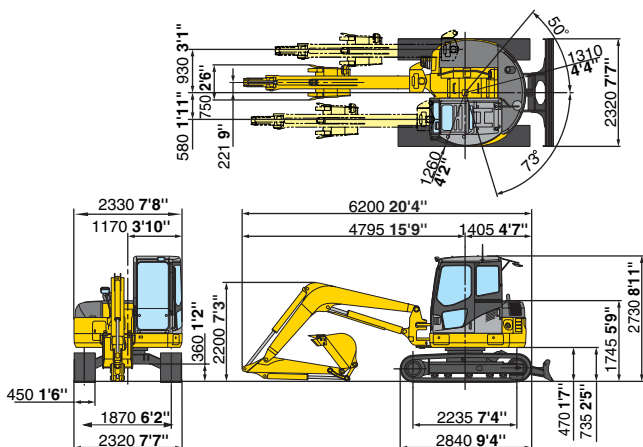


SWING SYSTEM

Drive methodHydrostatic
 Swing speed10.0 rpm
 180-degree swing width4085 mm **13'5"**



DIMENSIONS



DRIVES AND BRAKES

Steering controlTwo levers with pedals
 Drive methodFully hydrostatic
 Hydraulic motorsVariable displacement, axial piston motors
 Maximum drawbar pull64.7 kN 6600 kg **14,550 lb**
 Maximum travel speed:
 High4.2 km/h **2.6 mph**
 Low2.8 km/h **1.7 mph**
 Parking brakesMechanical disk



UNDERCARRIAGE

Track adjustment of the track tensionGrease
 Number of shoes39 each side
 Number of carrier rollers1 each side
 Number of track rollers5 each side
 Ground pressure0.38 kg/cm² **5.4 psi**



OPERATING WEIGHT (APPROXIMATE)

Operating weight including 1650 mm **5'5"** arm, bucket with 0.28 m³ **0.37 yd³** capacity, blade, operator, lubricant, steel shoes, full fuel tank, and standard equipment.

Shoe Width	Operating Weight
450 mm 18"	8270 kg 18,230 lb

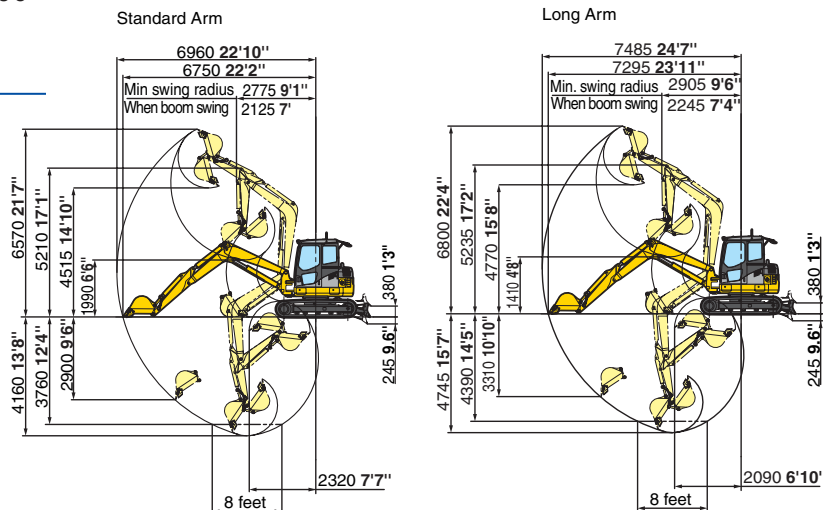


COOLANT AND LUBRICANT CAPACITY

Fuel tank125 ltr **33 US gal**
 Radiator10.5 ltr **2.8 US gal**
 Engine oil (refilling)7.0–7.5 ltr **1.8–2.0 US gal**
 Hydraulic (refilling)64–110 ltr **16.9–29.1 US gal**



WORKING RANGE



PC78MR-6 Configuration

Cab	Cab with A/C							
	1 With aux piping				2 Without aux piping			
Auxiliary piping								
Shoe	A Rubber 450 mm 18"	B Road Liner 450 mm 18"	C Steel 450 mm 18"	D Steel Wide 600 mm 23.6"	A Rubber 450 mm 18"	B Road Liner 450 mm 18"	C Steel 450 mm 18"	D Steel Wide 600 mm 23.6"
Package	1A	1B	1C	1D	2A	2B	2C	2D
Arm								
Standard 1650 mm 5'5"					X	X	X	X
Long 2250 mm 7'5"					X	X	X	X
Std with aux piping 1650 mm 5'5"	X	X	X	X				
Long with aux piping 2250 mm 7'5"	X	X	X	X				
Bucket								
3.2 ft ³ /14" (18" w/Cutters)	X	X	X	X	X	X	X	X
4.2 ft ³ /18" (22" w/Cutters)	X	X	X	X	X	X	X	X
7.1 ft ³ /22" (26" w/Cutters)	X	X	X	X	X	X	X	X
9.9 ft ³ /26" (30" w/Cutters)	X	X	X	X	X	X	X	X
9.9 ft ³ /26" (30" w/Cutters)	X	X	X	X	X	X	X	X
12.0 ft ³ /30" (32" w/Cutters)	X	X	X	X	X	X	X	X
Dozer								
Dozer Assembly 2311 mm 7'7"	In base	In base	In base	In base	In base	In base	In base	In base
Wide Dozer 2464 mm 8'1"	X	X	X	X	X	X	X	X
Reinforced Dozer with BOCE 2311 mm 7'7"	X	X	X	X	X	X	X	X
Others								
Additional Counter Weight	X	X	X	X	X	X	X	X
Additional Working Light	X	X	X	X	X	X	X	X
Window Guard Net	X	X	X	X	X	X	X	X
Heater & Defroster	X	X	X	X	X	X	X	X
Radiator Dust Proof Net	X	X	X	X	X	X	X	X
Field Attachments	X	X	X	X	X	X	X	X

x: Available



STANDARD EQUIPMENT

- Air cleaner, double element
- Air conditioner
- AM/FM Radio
- Ashtray
- Blade
- Cab, OPG Top Guard Level 1
- Cooling fan, suction type
- Engine sensing system
- Pattern change valve (ISO-Backhoe)
- Rear view mirror
- Retractable seat belt 76 mm 3" wide
- Suspension seat
- Travel alarm
- Two mode system
- Water separator
- Window washer, front



OPTIONAL EQUIPMENT

- Additional counter weight
- Additional working light
- Heater & Defroster
- Radiator Dust Proof Net
- Reinforced blade with BOCE
- Wide blade 2464 mm 8'1"
- Window Guard Net

PC78MR-6					
Bucket Capacity	0.09 m ³ 0.12 yd³	0.12 m ³ 0.16 yd³	0.20 m ³ 0.26 yd³	0.28 m ³ 0.37 yd³	0.34 m ³ 0.45 yd³
Without Sidecutter	350 mm 14 in	450 mm 18 in	550 mm 22 in	650 mm 26 in	725 mm 29 in
With Sidecutter	450 mm 18 in	550 mm 22 in	650 mm 26 in	750 mm 30 in	825 mm 32 in
Standard Arm	X	X	X	X	X
Long Arm	X	X	X	N/A	N/A

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