

KOMATSU®

NET HORSEPOWER
15.5 kW 20.8 HP

OPERATING WEIGHT
2295 kg 5,060 lb

PC20MR-2



PC
20MR



Photo may include optional equipment.

HYDRAULIC EXCAVATOR
COMPACT

GALEO

WALK-AROUND

Tight Tail Swing

The operator can focus on the work in front and worry less about rear swing impact in confined areas with 80 mm **3.2"** overhand on the rear.

Large Operator's Space

The operator can operate the machine comfortably due to suspension seat with adjustable seat back. On canopy models, the operator can enter and exit easily from both sides due to increased foot space and two-post ROPS canopy.

Two-Post ROPS/FOPS Canopy/Cab

- Each canopy/cab meets safety regulations for ROPS/FOPS guard
- Unsurpassed operator visibility

Superior Digging Force

Exceptional productivity combined with outstanding stability and superb fine control with CLSS hydraulic system.

X-Track Frame

Soil does not accumulate on the track frame due to its rounded design and wide openings. The x-frame also provides greater strength and rigidity.



Photos may include optional equipment.

Superior Lifting Capacity

The MR-2 series excavators offer high lifting capacities and stability in a tight tail machine design.

Automatic Two-Speed Travel

In high speed mode, travel speed is automatically shifted from high speed to low speed according to the load on the machine.

Large Operator's Cab

The cab on the MR-2 series compact excavators has the same foot space as the larger PC228USLC-3 excavator.

Tilt Forward Operator's Compartment

The operator's compartment tilts forward allowing easy access to hydraulic and engine components.

NET HORSEPOWER
15.5 kW **20.8 HP**

OPERATING WEIGHT
Canopy, Rubber Track
2295 kg **5,060 lb**

Canopy, Steel Track
2406 kg **5,305 lb**

Cab, Rubber Track
2460 kg **5,424 lb**

Cab, Steel Track
2571 kg **5,669 lb**

TWO SPEED TRAVEL
High: 4.67 km/h **2.9 MPH**
Low: 2.74 km/h **1.7 MPH**

BUCKET SIZE
254–533 mm **10"-21"**



GALEO

Komatsu's highly productive, innovative technology, environmentally friendly machines built for the 21st century.

OPERATOR ENVIRONMENT



Large Entrance and Foot Space

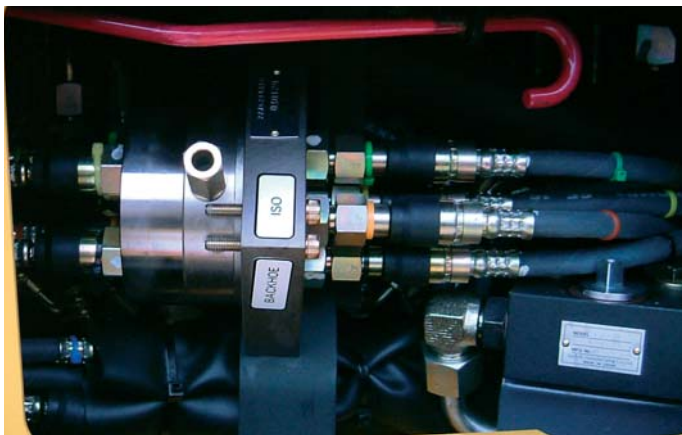
The two-post ROPS/FOPS canopy enables the operator to enter and exit from either side. The canopy/cab also provides the operator with foot space equal to the larger PC228USLC-3 excavator.

Suspension Seat with Adjustable Seat Back

reduces operator fatigue.

Joystick Controls

provide low effort, fine control and are maintenance and adjustment free.

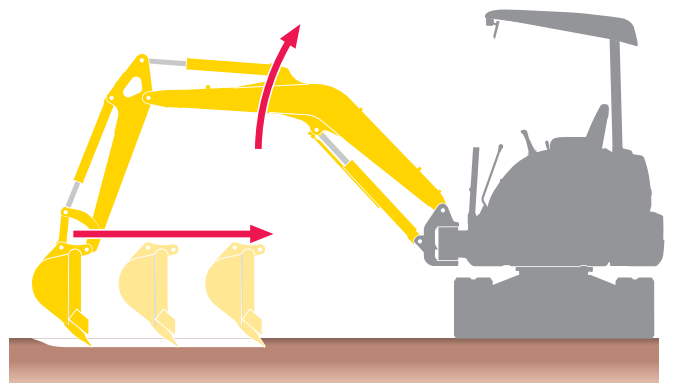


Pattern Change Valve

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

CLSS HydraMind (Hydraulic Mechanical Intelligence) System

Even when two or more functions are operated simultaneously, the pressure-compensated CLSS system ensures each function works according to its control input, regardless of the size of the load. This gives the operator precise control at all times.



SAFETY FEATURES



Two-Post ROPS/FOPS

ROPS (Roll-Over Protective Structure) canopy/cab meets the requirements of ROPS with the advantage of a two-post design.

According to the SAE and ISO standard, excavators are not required to have FOPS (Falling Object Protective Structure); however, the MR-2 series meets the standard.



Excellent Visibility

The operator is able to maintain excellent visibility at all times with no frontal obstructions and minimal rear obstructions.



Neutral Engine Start System

In order to start the machine, the left or the right console must be in the up position. Lower the console and the lever into the down position to activate the travel and hydraulic systems.

SERVICEABILITY



Photo may include optional equipment.

Tilt-Up Operator Compartment

The operator's compartment tilts forward for easy access to hydraulic and engine components. This function is not required for daily inspection.

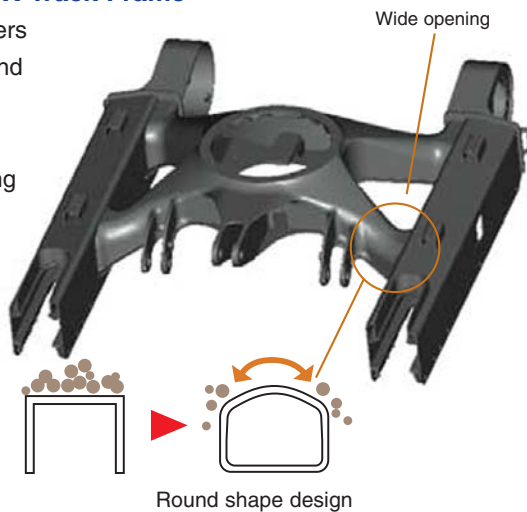
Fully Opening Engine Hood and Side Panel

Routine maintenance and daily inspections are easy to perform. All maintenance and inspection points are easily accessible with machine in the working position.



High Strength X-Track Frame

X-track frame deters build-up of mud and debris saving the operator valuable time when cleaning the machine.



Extended service intervals reduce maintenance costs.

Periodic service intervals	MR-2 Series
Lubricating swing circle	500
Lubricating bushing of work equipment	500
Replacement of engine oil	500

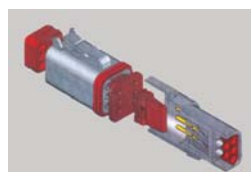
Larger Diameter Swing Pin

Has high durability and maintains suitable tolerances between pin and bushing after long-term operation.



Hydraulic Fittings

O-ring face seal connections with high sealing performance.



DT Electrical Connectors

Water-resistant DT electrical connectors seal tight and have high reliability.

SPECIFICATIONS



ENGINE

Model Komatsu 3D76E-5
 Type Water cooled, 4 cycle, swirl chamber
 Number of cylinders 3
 Piston displacement 1.115 ltr **68 in³**
 Horsepower
 Net 15.5 kW **20.8 HP @ 2500 rpm**
 EPA,EU, and Japan Tier 2 emission certified.



ELECTRICAL SYSTEM

Alternator 40 A
 Battery 45 Ah/390 CCA
 Operating voltage 12 V



HYDRAULIC SYSTEM

Type HydraMind (Hydraulic Mechanical Intelligence) system, closed-center system with load-sensing valve and pressure-compensated valves

Main pump:

Type Variable capacity x 1
 Maximum flow 53.9 ltr/min **14.2 U.S. gal/min**

Hydraulic motors:

Travel Variable capacity x 2
 Swing Fixed capacity x 1

Maximum pressure setting 250 kg/cm² **3,555 psi**
 Auxiliary flow35 ltr/min **9.2 gal/min**

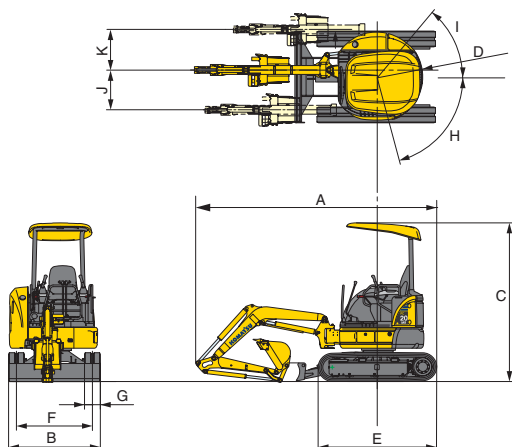


PERFORMANCE

Swing speed 8.9 rpm
 Ground pressure028 kg/cm² **4.0 psi**
 Maximum traction force2060 kg **4,540 lb**
 Gradeability30 degrees
 Bucket digging force1920 kg **4,235 lb**
 Arm crowd force1390 kg **3,065 lb**



DIMENSIONS



DRIVES AND BRAKES

Steering control Two levers with pedals
 Drive method Fully hydrostatic
 Maximum travel speed: High 4.6 km/h **2.9 mph**
 Low 2.8 km/h **1.7 mph**
 Travel brake Hydraulic lock



UNDERCARRIAGE

Track adjuster Grease
 Number of track rollers 3 each side



COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank 28 ltr **7.4 U.S. gal**
 Radiator 3.0 ltr **0.8 U.S. gal**
 Engine 3.4 ltr **0.9 U.S. gal**
 Hydraulic tank 19 ltr **5.0 U.S. gal**



OPERATING WEIGHT (APPROXIMATE)

Operating weight including including ROPS/TOP Canopy, 1016 mm **3'4"** arm, auxiliary hydraulic bucket with 0.066 m³ **0.087 yd³** ISO 754 capacity, blade, operator weight, liquids, full fuel tank, and standard equipment.

PC20MR-2	Shoe Width	Operating Weight
Rubber Track	250 mm 9.8"	2,295 kg 5,060 lbs
Steel Track	250 mm 9.8"	2,406 kg 5,305 lbs



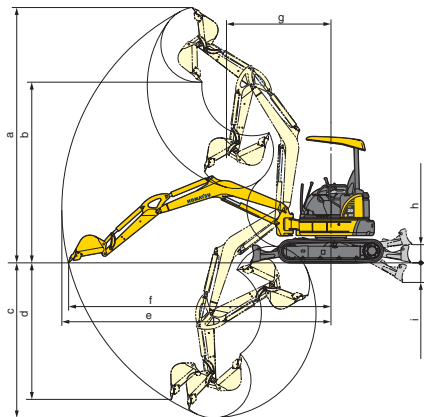
BLADE

Width x-height 1450 x 300 mm **4'8" x 11.8"**
 Maximum lifting above ground level 340 mm **13.4"**
 Maximum depth below ground level 230 mm **9.1"**

Dimensions	mm/ft. in.
A. Overall length	3810/ 12'6"
B. Overall width	1450/ 4'8"
C. Overall height	2520/ 8'3"
D. Tail swing radius	800/ 2'7"
E. Crawler length	1880/ 6'2"
F. Track gauge	1200/ 3'11"
G. Track shoe width	250/ 9.8"
H/I. Boom swing angle	LH 75 / RH 50
J/K. Bucket offset	LH 525 / RH 770 LH 1'9" / RH 2'6"



WORKING RANGE



Standard Arm Working Range (mm/ft.in.)	1016 mm 3'4"	Long Arm Working Range (mm/ft.in.)	1372 mm 4'6"
a. Max. digging height	4100/13'5"	a. Max. digging height	4390/14'5"
b. Max. dumping height	2820/9'3"	b. Max. dumping height	3110/10'2"
c. Max. digging depth	2350/7'9"	c. Max. digging depth	2750/9'0"
d. Max. vertical digging depth	1950/6'5"	d. Max. vertical digging depth	2350/7'9"
e. Max. digging reach	4300/14'1"	e. Max. digging reach	4750/15'7"
f. Max. digging reach (ground level)	4170/13'8"	f. Max. digging reach (ground level)	4620/15'2"
g. Min. swing radius (when boom swing)	1790/5'10" 1450/4'9"	g. Min. swing radius (when boom swing)	1950/6'5" 1500/4'11"
h. Max. blade lift	340/13.4"	h. Max. blade lift	340/13.4"
i. Max. blade depth	230/9.1"	i. Max. blade depth	230/9.1"



LIFTING CAPACITIES

Blade on ground and expanded undercarriage

Arm Length Unit: kg/lb	A B	2 m 6.5'		2.5 m 8.2'		3 m 10'		MAXIMUM	
		Front	Side	Front	Side	Front	Side	Front	Side
1016 mm 3'4"	3 m 10'			*470 *1,035	*470 *1,035			*530 *1,165	455 1,000
	2 m 6.5'	*625 *1,375	*625 *1,375	*570 *1,255	535 1,175	550 1,210	400 880	*550 *1,210	320 705
	1 m 3.2'	*1380 *3,040	710 1,565	*910 *2,005	515 1,135	710 1,565	385 845	*590 *1,300	285 625
	0 m 0'	*1545 *3,405	685 1,510	*1080 *2,380	495 1,090	805 1,770	375 825	*645 *1,420	305 670
	-1 m -3.2'	*1235 *2,720	695 1,530	*880 *1,940	500 1,100			*710 *1,565	425 935
1372 mm 4'6"	0 m 0'	*1535 *3,380	680 1,495	*1045 *2,300	*490 *1,080	775 1,705	370 815	*550 *1,210	255 560

* Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping load.



STANDARD EQUIPMENT

- Air cleaner, single element
- Automatic two-speed travel control
- Backfill blade
- Counterweight
- Pattern change valve (Excavator/Backhoe)
- Rubber track
- Rearview mirrors, RH/LH
- Suspension seat
- Seat belt 76 mm 3"
- Steering pedals
- Two-post canopy ROPS and Top Guard
- Travel alarm
- Wrist rests



OPTIONAL EQUIPMENT

- Additional cab light
- Additional canopy light
- Arm arrangements from 1016 mm 3'4" to 1372 mm 4'6"
- Auxiliary hydraulics
- Buckets from 254 mm 10" to 533 mm 21"
- Cab
- Hydraulic breaker
- Reinforced blade assembly
- Steel track

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KOMATSU®

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