

KOMATSU®

PC18MR-2

NET HORSEPOWER

11.2 kW 15.0 HP

OPERATING WEIGHT

1855 kg 4,090 lb

PC
18MR

COMPACT
HYDRAULIC EXCAVATOR



Photo may include optional equipment.

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"** overhang on the rear.

Large Operator's Space

The operator can operate the machine comfortably due to a suspension seat with adjustable seat back. The operator can enter and exit easily from both sides due to increased foot space and two-post ROPS/FOPS (level 1) canopy.

Two-Post ROPS/FOPS (level 1) Canopy

- Each canopy meets regulations for ROPS/FOPS (level 1)
- Excellent operator visibility

Digging Force

Komatsu Closed-Center Load Sensing System (CLSS) provides exceptional productivity combined with outstanding stability and superb fine control.

Adjustable Blade Width

Blade width may be adjusted manually to increase width from 980 mm **38.6"** to 1300 mm **51.2"**.



NET HORSEPOWER

11.2 kW 15.0 HP

OPERATING WEIGHT

Rubber Track: 1855 kg **4,090 lb**

Steel Track: 1933 kg **4,261 lb**

Two Speed Travel

High: 4.3 km/h **2.7 MPH**

Low: 2.3 km/h **1.4 MPH**

Bucket Size

305–406 mm **12"–16"**

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.

Expandable Undercarriage

The PC18MR-2 is able to pass through narrow entry ways due to its retractable undercarriage. Once in position, the undercarriage may be expanded for greater stability.

Tilt Forward Operator's Compartment

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



Photos may include optional equipment.

OPERATOR ENVIRONMENT



Large Entrance and Foot Space

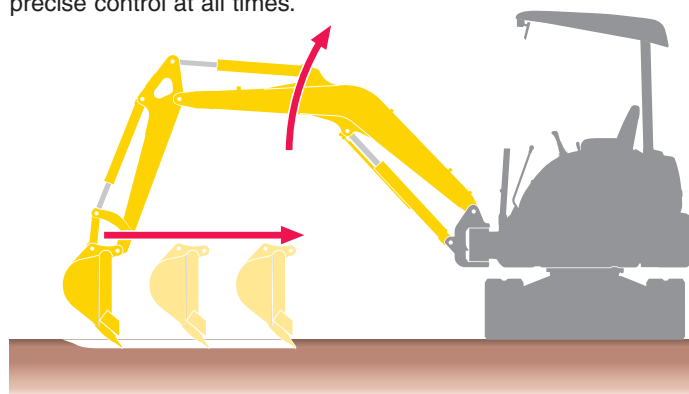
The two-post ROPS canopy enables the operator to enter and exit from either side. It also provides the operator with foot space equal to the larger PC228USLC-3 excavator.

Suspension Seat with Adjustable Seat Back reduces operator fatigue.

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

CLSS HydrauMind (Hydraulic Mechanical Intelligence) Hydraulic 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.



Pattern Change Valve

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



PC18MR-2 FEATURES



Two-Post ROPS/FOPS Level 1

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



Excellent Visibility

The operator is able to maintain excellent visibility with minimal front and rear obstructions.



Neutral Engine Start System

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

Hydraulic Hoses Inside Boom

By routing hydraulic hoses through the boom, Komatsu has reduced hose wear and risk to the operator in the event a hose ruptures.



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 Panels

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



500 Hour Maintenance Interval

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

Extended service intervals reduce maintenance costs.

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 connection with high sealing performance.



DT Electrical Connectors

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



SPECIFICATIONS



ENGINE

Model Komatsu 3D67E-5
 Type Water cooled, 4 cycle, swirl chamber
 Number of cylinders 3
 Piston displacement 0.778 ltr **47.4 in³**
 Horsepower
 Net 11.2 kW **15 HP @ 2600 rpm**

EPA, EU, and Japan Tier 2 emission certified.



ELECTRICAL SYSTEM

Alternator 40 A
 Battery 41 Ah/350 CCA
 Operating voltage 12 V



HYDRAULIC SYSTEM

Type HydrauMind (Hydraulic Mechanical Intelligence) system,
 Closed-center system with load-sensing valve
 and pressure-compensated valve

Main pump:

Type Variable capacity x 1
 Maximum flow 40.8 ltr/min **10.8 U.S. gal/min**

Hydraulic motors:

Travel Variable capacity x 2
 Swing Fixed capacity x 1

Maximum pressure setting 235 kg/cm² **3,340 psi**
 Auxiliary flow 351 ltr/min **9.2 gal/min**

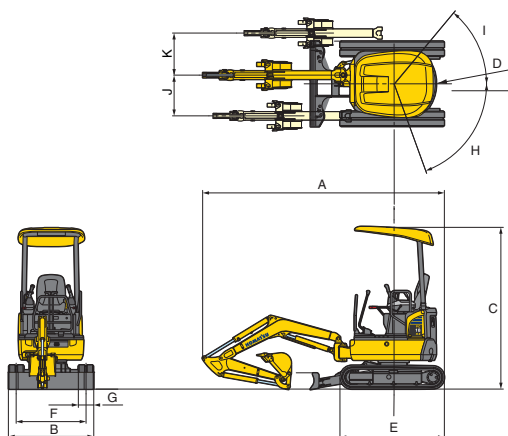


PERFORMANCE

Swing speed 8.9 rpm
 Ground pressure 0.33 kg/cm² **4.7 psi**
 Maximum traction force 1700 kg **3,750 lb**
 Gradeability 30 degrees
 Bucket digging force 1620 kg **3,570 lb**
 Arm crowd force 1010 kg **2,230 lb**



DIMENSIONS



DRIVES AND BRAKES

Steering control Two levers with pedals
 Drive method Hydrostatic
 Travel speed: High 4.3 km/h **2.7 mph**
 Low 2.3 km/h **1.4 mph**
 Travel brake Hydraulic lock



UNDERCARRIAGE

Track adjuster Grease
 Number of track rollers 3 each side



COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank 19 ltr **5.0 U.S. gal**
 Radiator 3.1 ltr **0.82 U.S. gal**
 Engine 3.3 ltr **0.87 U.S. gal**
 Hydraulic tank 15.2 ltr **4.0 U.S. gal**



OPERATING WEIGHT (APPROXIMATE)

Operating weight including ROPS/TOP Canopy, 965 mm **3'2"** arm, auxiliary hydraulics bucket with 0.044 m³ **0.058 yd³** ISO 754 capacity, blade, operator weight, liquids, full fuel tank, and standard equipment.

PC18MR-2	Shoe Width	Operating Weight
Rubber Track	230 mm 9.1"	1,855 kg 4,090 lbs
Steel Track	230 mm 9.1"	1,933 kg 4,261 lbs



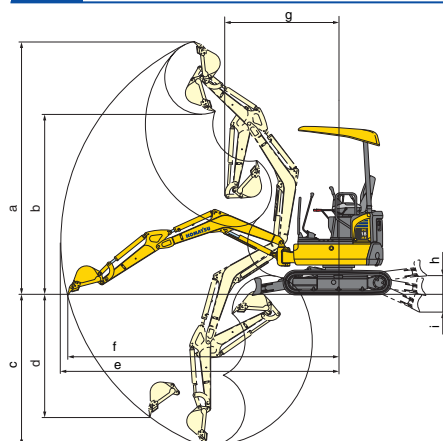
BLADE

Width x height 1300 mm x 250 mm **4'3" x 9.8"**
 Maximum lift above ground level 280 mm **11"**
 Maximum depth below ground level 255 mm **10"**

Dimensions	mm/ft.in.
A. Overall length	3650/12'0"
B. Overall width	980-1300/3'3"-4'3"
C. Overall height	2410/7'11"
D. Tail swing radius	705/2'4"
E. Crawler length	1555/5'1"
F. Track gauge	750-1070/2'6"-3'6"
G. Track shoe width	230/9.1"
H/I. Boom swing angle	LH 70 / RH 50
J/K. Bucket offset	LH 465 / RH 785 LH 1'6" / RH 2'7"



WORKING RANGE



Standard Arm Working Range (mm/ft.in.)	965 3'2"	Long Arm Working Range (mm/ft.in.)	1215 4'0"
a. Max. digging height	3615/11'10"	a. Max. digging height	3820/12'6"
b. Max. dumping height	2610/8'7"	b. Max. dumping height	2815/9'3"
c. Max. digging depth	2160/7'1"	c. Max. digging depth	2400/7'10"
d. Max. vertical digging depth	1785/5'10"	d. Max. vertical digging depth	2000/6'7"
e. Max. digging reach	4025/13'2"	e. Max. digging reach	4270/14'0"
f. Max. digging reach (ground level)	3935/12'11"	f. Max. digging reach (ground level)	4190/13'9"
g. Min. swing radius (when boom swing)	1670/5'6" 1355/4'5"	g. Min. swing radius (when boom swing)	1770/5'10" 1435/4'8"
h. Max. blade lift	280/11"	h. Max. blade lift	280/11"
i. Max. blade depth	255/10"	i. Max. blade depth	255/10"



LIFTING CAPACITIES

Blade on ground and expanded undercarriage

Arm Length Unit: kg/lb	B	A		2 m 6.5'		2.5 m 8.2'		3 m 10'		MAXIMUM	
				Front	Side	Front	Side	Front	Side	Front	Side
965 mm 3'2"	3 m 10'									*355 *782	*355 *782
	2 m 6.5'					*318 *701	*318 *701	*314 *692	235 518	*318 *701	216 476
	1 m 3.2'	*653 *1,440	421 928	*454 *1,001	302 666	*367 *809	229 505	*324 *714	182 401		
	0 m 0'	*806 *1,777	396 873	*551 *1,214	287 633	*412 *908	221 487	*338 *745	187 412		
	-1 m -3.2'	*635 *1,400	401 884	*446 *983	289 637			*342 *754	245 540		
1215 mm 4'0"	0 m 0'	*798 *1,759	394 869	*535 *1,179	285 628	*404 *890	219 483	*300 *661	165 364		

* 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" wide
- Steering pedals
- Two-post canopy ROPS and FOPS (level 1) Guard
- Travel alarm
- Wrist rests



OPTIONAL EQUIPMENT

- Additional canopy light
- Arm arrangements from 965 mm 3'2" to 1215 mm 4'0"
- Auxiliary hydraulics
- Buckets from 305 mm 12" to 406 mm 16"
- Hydraulic breaker
- Steel track

KUSS170-02

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