

KOMATSU®

PC45MR-3

NET HORSEPOWER

28.5 kW 38.2 HP

OPERATING WEIGHT

4795 kg 10,573 lb

PC
45MR

COMPACT HYDRAULIC
EXCAVATOR



Photo may include optional equipment.

WALK-AROUND

Performance and Versatility

- Standard auxiliary hydraulics
- Standard thumb mounting bracket
- Three track options: rubber, steel, roadliner
- Automatic two-speed travel
- ISO/SAE pattern change valve
- Optional Power Angle blade

Service and Maintenance

- Wide opening engine hood and side covers
- Side-by-side radiator and oil cooler are easily inspected
- Grease points for work equipment are on the same side of the boom and arm
- Tilt-forward operator's station provides full access to engine and hydraulic components
- Hydraulic hoses are alpha-numerically marked or color coded making them easy to identify

Operator Comfort

- Large operator platform
- Adjustable suspension seat with retractable seat belt
- Pilot proportional joystick controls
- Easy entry and egress
- Low noise



KOMTRAX equipped machines can send location, SMR and operation maps to a secure website utilizing wireless technology.

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DIG DEPTH
3670 mm **12'**



Value, Durability, and Strength

- KOMTRAX® wireless equipment monitoring system
- High strength X-track frame
- Castings are used for boom foot, tip, and swing yoke
- Large diameter swing pin
- Reinforced arm
- O-ring face seal hydraulic fittings
- Moisture/dust resistant electrical connectors

Peace of Mind

- Two-post ROPS canopy or ROPS cab
- Neutral engine start system
- Excellent visibility enhances job site awareness
- Low emission Komatsu engine with dual element air cleaner
- One key operates the ignition and all machine locks

OPERATOR ENVIRONMENT



Operator Station

- Spacious canopy/cab with unobstructed floor provides the operator with ample leg room
- Folding travel pedals
- Upper rail sliding door (cab models)
- Air conditioning provides a comfortable operating space throughout the year (cab models)
- Two-post ROPS canopy provides unequalled visibility
- Fully adjustable suspension seat reduces operator fatigue
- PPC joystick controls are low effort and provide fine control
- Gauges and indicator lights are easy to read

FEATURES



Tight Tail Swing

The operator can focus more on the work in front and worry less about rear swing clearance, even in confined areas with only an 80 mm 3.1" projection over the tracks.



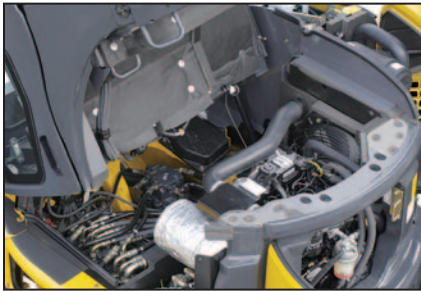
Pattern Change Valve

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



Excellent Visibility

The operator's station design allows the operator to maintain a 360° field-of-view.



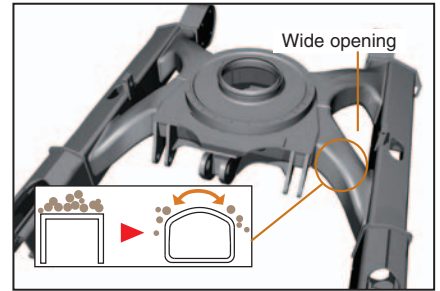
Tilt-Up Operator Compartment

The operator compartment tilts forward for easy access to hydraulic and engine components.



Wide Opening Engine Hood and Side Covers

Allow easy access for daily checks and regular maintenance.



High Strength X-Track Frame

X-track frame is a large hydraulic excavator concept and deters the build-up of dirt and debris, saving the operator valuable time when cleaning the machine.



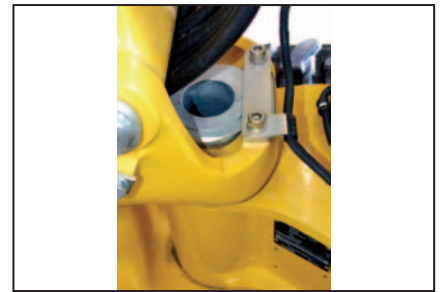
Neutral Engine Start System

Locks out drives and hydraulics during machine start up.



Manual Selector Valve

Allows the operator to switch between one-way (Breaker) and two-way auxiliary hydraulic flow (Thumb).



Large Diameter Swing Pin

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

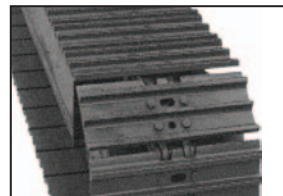
Extended Maintenance Intervals

Lubricate swing circle	500 hrs
Lubricate work equipment	500 hrs
Replace engine oil and filter	500 hrs
Fuel filter	500 hrs
Hydraulic filter	1000 hrs

Three Track Options Available



Rubber



Steel



Roadliner

SPECIFICATIONS



ENGINE

Model Komatsu 4D88E-6
 Type Direct injection
 Piston displacement 2.189 ltr **134 in³**
 Horsepower:
 Net (ISO 9249/SAE J1349) 28.5 kW **38.2 HP** @ 2400 rpm



ELECTRICAL SYSTEM

Operating voltage 12 V
 Battery 72 Ah
 Alternator 40 A
 Starter 2.3 kW



HYDRAULIC SYSTEM

Type HydrauMind
 Main pump:
 Type Variable displacement x 2
 Gear x 1
 Maximum oil flow 53.5 x 2 + 33.8 ltr/min
14.1 x 2 + 8.9 gal/min
 Hydraulic motor:
 Travel Variable displacement x 2
 Swing Fixed displacement x 1
 Maximum pressure setting 270 kg/cm² **3,840 psi**
 Auxiliary flow 70 ltr/min **18.5 gal/min**



PERFORMANCE

Travel speed
 High 4.6 km/hr **2.9 mph**
 Low 2.8 km/hr **1.7 mph**
 Swing speed 9.0 rpm
 Ground pressure 0.25 kg/cm² **3.6 psi**
 Max. drawbar pull 4280 kg **9,440 lb**
 Gradeability 30°
 Bucket digging force (ISO) 3460 kg **7,630 lb**
 Arm crowd force (ISO) 2200 kg **4,850 lb**



DRIVES AND BRAKES

Drive method Hydrostatic
 Type of travel brake Hydraulic lock
 Type of travel shoe Rubber



UNDERCARRIAGE

Adjustment of the track tension Grease gun
 Number of carrier rollers (each side) 1
 Number of track rollers (each side) 4



REFILL CAPACITIES

Fuel tank 65 ltr **17.2 U.S. gal**
 Hydraulic tank 20 ltr **5.3 U.S. gal**
 Engine 7.5 ltr **2.0 U.S. gal**
 Coolant 8.5 ltr **2.2 U.S. gal**



OPERATING WEIGHT (APPROXIMATE)

Operating weight
 (with ROPS canopy and rubber shoe) 4795 kg **10,573 lb**

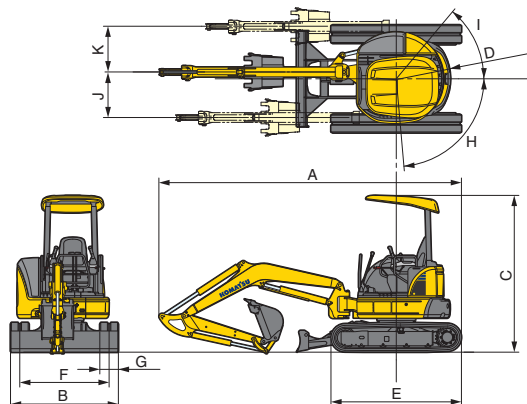


BLADE

Width x height 1960 x 355 mm
6'5" x 1'2"



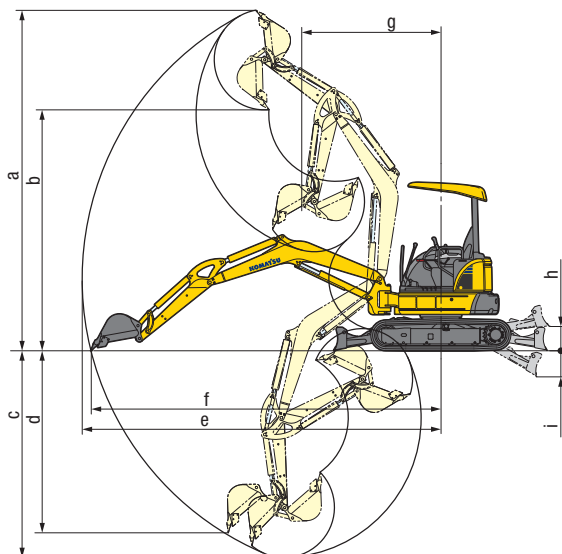
DIMENSIONS



A	Overall length	5330 mm 17'6"
B	Overall width	1960 mm 6'5"
C	Overall height	2550 mm 8'4"
D	Tail swing radius	1060 mm 3'6"
E	Crawler length	2520 mm 8'3"
F	Track gauge	1560 mm 5'1"
G	Track shoe width	400 mm 1'4"
H/I	Boom swing angle	Left 85°/Right 50°
J/K	Bucket offset	LH 630 mm/RH 880 mm LH 2'1"/RH 2'11"



WORKING RANGE



a	Maximum digging height	5730 mm 18'10"
b	Maximum dumping height	4060 mm 13'4"
c	Maximum digging depth	3670 mm 12'0"
d	Maximum vertical digging depth	3060 mm 10'0"
e	Maximum digging reach	6040 mm 19'10"
f	Maximum reach-ground level	5885 mm 19'4"
g	Minimum swing radius (With boom swing)	2410 mm 7'10" (1830 mm 6'0")
h	Maximum blade lift	430 mm 1'5"
i	Maximum blade depth	330 mm 1'1"



LIFTING CAPACITY

Blade on ground		Unit: kgf lbf							
		2 m 6.5'		3 m 10'		4 m 13'		Maximum Reach	
		Front	Side	Front	Side	Front	Side	Front	Side
Arm Length 1695 mm 5'6"	3 m 10'	—	—	—	—	830* 1830*	645 1422	890* 1962*	455 1003
	2 m 6.5'	—	—	1265* 2789*	1015 2238	1020* 2249*	625 1378	935* 2061*	395 871
	1 m 3.25'	—	—	1925* 4244*	930 2050	1275* 2811*	590 1301	990* 2183*	375 827
	0 m 0'	1245* 2745*	1245 2745	2275* 5016*	880 1940	1450* 3197*	565 1246	1060* 2337*	390 860
	-1 m -3.25'	2325* 5126*	1715 3781	2250* 4960*	875 1929	1445* 3186*	555 1224	1300* 2866*	515 1135

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



STANDARD EQUIPMENT

- Air cleaner, dual element
- Automatic two-speed travel control
- Auxiliary hydraulics with selector valve
- Backfill blade
- KOMTRAX®
- Pattern change valve
- Rearview mirrors
- Rubber track
- Suspension seat with 50 mm 2" wide retractable seat belt
- Travel alarm
- Travel pedals
- Two-post ROPS canopy



OPTIONAL EQUIPMENT

- 76 mm 3" retractable seat belt
- Additional work light (cab or canopy)
- Cab with air conditioner, radio ready, and 12 V outlet
- Power angle blade
- Road liner track
- Steel track
- Wide variety of attachments

KOMATSU®