

KOMATSU®

PC55MR-3

NET HORSEPOWER

28.5 kW 38.2 HP

OPERATING WEIGHT

5160 kg 11,378 lb

PC
55MR

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
3800 mm **12' 6"**



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**

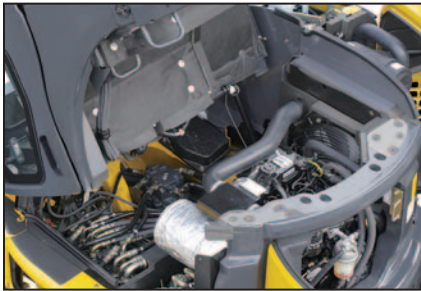
The operator can focus more on the work in front and worry less about rear swing clearance, even in confined areas with only an 80 mm **3.1"** projection over the tracks.

**Pattern Change Valve**

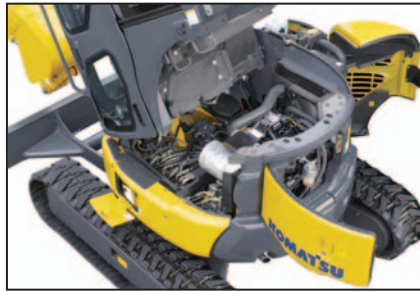
Whether you are comfortable with ISO or SAE, you can easily change from one to the other.

**Excellent Visibility**

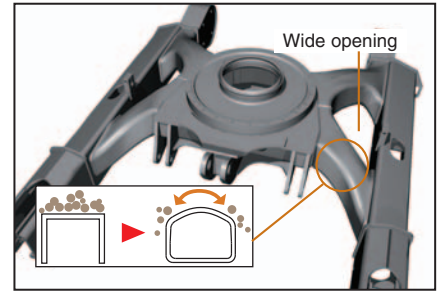
The operator's station design allows the operator to maintain a 360° field-of-view.

**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**

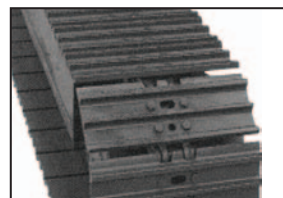
Has high durability and maintains suitable clearances between pin and bushing after long-term operation.

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 0.31 kg/cm² **4.4 psi**
 Max. drawbar pull 4280 kg **9,440 lb**
 Gradeability 30°
 Bucket digging force (ISO) 3980 kg **8,770 lb**
 Arm crowd force (ISO) 2440 kg **5,380 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) 5160 kg **11,378 lb**

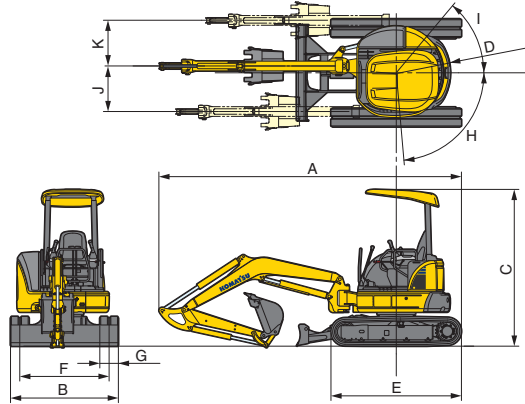


BLADE

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



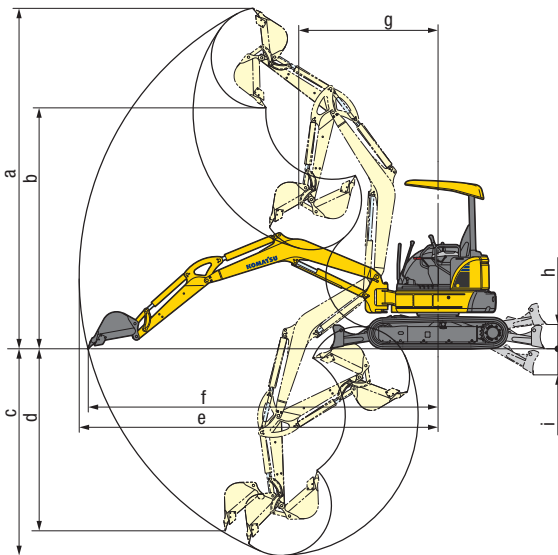
DIMENSIONS



A	Overall length	5550 mm 18'3"
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 2'10"



WORKING RANGE



a	Maximum digging height	5945 mm 19'6"
b	Maximum dumping height	4230 mm 13'11"
c	Maximum digging depth	3800 mm 12'6"
d	Maximum vertical digging depth	3020 mm 9'11"
e	Maximum digging reach	6220 mm 20'5"
f	Maximum reach-ground level	6070 mm 19'11"
g	Minimum swing radius (With boom swing)	2270 mm 7'5" (1740 mm 5'9")
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'		3.0 m 10'		4 m 13'		Maximum Reach	
		Front	Side	Front	Side	Front	Side	Front	Side
Arm Length 1640 mm 5'4"	3 m 10'	—	—	—	—	845* 1863*	750 1653	850* 1874*	500 1102
	2 m 6.5'	—	—	1435* 3164*	1140 2513	1050* 2315*	720 1587	885* 1951*	440 970
	1 m 3.25'	—	—	2030* 4475*	1045 2304	1285* 2833*	680 1499	930* 2050*	420 926
	0 m 0'	—	—	2260* 4982*	1005 2216	1435* 3164*	655 1444	985* 2172*	435 959
	-1 m -3.25'	2790* 6151*	1960 4321	2170* 4784*	1000 2205	1415* 3119*	645 1422	1050* 2315*	500 1102

*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®