

KOMATSU®

PC88MR-11

Tier 4 Final Engine

COMPACT HYDRAULIC EXCAVATOR



Photos may include optional equipment.

NET HORSEPOWER

68 HP @ 1,850 rpm
51 kW @ 1,850 rpm

OPERATING WEIGHT

18,739–19,224 lbs.
8500–8720 kg

BUCKET CAPACITY

0.12–0.26 yd³
0.09–0.20 m³

PC88MR

WALK-AROUND

Performance Enhancements from PC88MR-10

- NEW** ▪ New high output 68 net HP Tier 4 Final engine with a new viscous fan clutch providing up to 2% lower fuel consumption
- NEW** ▪ Productivity increased up to 9% in P mode, and up to 2% in E mode
- NEW** ▪ Improved multifunction operation
- NEW** ▪ The standard auxiliary hydraulic circuit now has up to 12% greater hydraulic flow
- NEW** ▪ Improved engine speed and hydraulic match for optimal performance
- NEW** ▪ Improved blade design rolls material better for more efficient dozing work

Serviceability

- NEW** ▪ Improved maintenance accessibility with larger service access doors
- NEW** ▪ The auxiliary hydraulic circuit return filter has been relocated for easier ground-level access alongside the windshield washer tank
- NEW** ▪ Centralized ground-level access with filters relocated to a common area
- NEW** ▪ Easier access to side-by-side cooling package with enlarged panels and doors
- NEW** ▪ New right-hand locking fuel tank cover provides easier ground-level access to fuel tank filler port
- NEW** ▪ Air conditioning condenser swings open for improved access to radiator for cleaning

Operator Environment

- Rearview monitor system is standard equipment
- NEW** ▪ Bluetooth stereo radio with wireless technology and USB
- NEW** ▪ Reduced 1.0 dB(A) compared to PC88MR-10
- NEW** ▪ Easy access to hydraulic attachment flow control through machine monitor
- NEW** ▪ LED lamps as standard equipment



Photos may include optional equipment.

PC88MR-11

SPECIFICATIONS



ENGINE

Model..... Komatsu SAA3D95E-1*
 Type..... Water-cooled, 4-cycle, direct injection
 Aspiration..... Turbocharged, aftercooled, cooled EGR
 Number of cylinders..... 3
 Bore..... 95 mm **3.74"**
 Stroke..... 115 mm **4.52"**
 Piston displacement..... 2.45 L **149.5 in³**
 Horsepower:
 SAE J1995..... Gross 50.7 kW **68.0 HP**
 ISO 9249 / SAE J1349..... Net 50.6 kW **67.9 HP**
 Rated rpm..... 1850
 Fan drive method for radiator cooling Mechanical
 with viscous fan clutch
 Governor..... All-speed control, electronic
 *EPA Tier 4 Final emissions certified



HYDRAULICS

Type HydrauMind (Hydraulic Mechanical Intelligence New Design) system, closed-center system with load-sensing valves and pressure-compensated valves
 Number of selectable working modes 6
 Main pumps:
 Pumps for..... Boom, arm, bucket, swing, and travel circuits
 Type..... Variable displacement, axial piston
 Maximum flow 160 L/min **42.2 gal/min**
 Pumps for..... Blade
 Type..... Fixed displacement gear
 Maximum flow 63 L/min **17.0 gal/min**
 Hydraulic motors:
 Travel..... 2 x piston motor with parking brake
 Swing..... 1 x axial piston motor with swing holding brake
 Relief valve setting:
 Implement circuits..... 26.5 MPa 270 kgf/cm² **3,844 psi**
 Travel circuits..... 26.5 MPa 270 kgf/cm² **3,844 psi**
 Swing circuits..... 21.0 MPa 215 kgf/cm² **3,060 psi**
 Pilot circuits..... 3.2 MPa 33 kgf/cm² **464 psi**
 Blade circuits (Raise)..... 12.7 MPa 130 kgf/cm² **1,842 psi**
 Blade circuits (Lower)..... 21.1 MPa 215 kgf/cm² **3,060 psi**

Hydraulic cylinders:

(Number of cylinders – bore x stroke x rod diameter)

Boom.. 1–115 mm x 988 mm x 65 mm **4.53" x 38.9" x 2.56"**
 Arm..... 1–100 mm x 861 mm x 60 mm **3.9" x 33.9" x 2.36"**
 Bucket.. 1–90 mm x 710 mm x 55 mm **3.54" x 27.95" x 2.17"**
 Swing.. 1–120 mm x 638 mm x 60 mm **4.72" x 25.12" x 2.36"**
 Blade.... 1–130 mm x 200 mm x 65 mm **5.12" x 7.87" x 2.56"**

Auxiliary hydraulics:

Two-way..... 138 L/min **36.5 gal/min**
 Relief..... 26.51 MPa **3,830 psi**
 One-way..... 80 L/min **21.1 gal/min**
 Relief in breaker mode..... 17.17 MPa **2,490 psi**



DRIVES AND BRAKES

Steering control..... Two levers with pedals
 Drive method Hydrostatic
 Maximum drawbar pull 68.1 kN 6950 kgf **15,309 lbf**
 Maximum travel speed: High..... 5.0 km/h **3.1 mph**
 Low..... 2.7 km/h **1.9 mph**
 Service brake..... Hydraulic lock
 Parking brake..... Mechanical disc



SWING SYSTEM

Driven by..... Hydraulic motor
 Swing reduction..... Planetary gear
 Swing circle lubrication Grease-bathed
 Swing lock Mechanical disc brake
 Swing speed..... 10 rpm



UNDERCARRIAGE

Center frame..... X-frame leg
 Track frame..... Box-section
 Track type..... Sealed
 Track adjuster Hydraulic
 Number of shoes (each side)..... 39
 Number of carrier rollers (each side)..... 1
 Number of track rollers (each side)..... 5



COOLANT & LUBRICANT CAPACITY (REFILLING)

Fuel tank 125 L **33 U.S. gal**
 Radiator 18 L **4.8 U.S. gal**
 Engine..... 10.5 L **2.7 U.S. gal**
 Final drive, each side..... 1.1 L **0.29 U.S. gal**
 Swing drive 2.8 L **0.74 U.S. gal**
 Hydraulic tank..... 56 L **14.8 U.S. gal**



OPERATING WEIGHT (APPROXIMATE)

Operating weight includes 3405 mm **11'2"** one-piece boom, 2100 mm **6'11"** arm, ISO 7451 heaped 0.20 m³ **0.26 yd³** bucket, blade, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

Track Shoes	Operating Weight	Ground Pressure (ISO 16754)
Road liner 450 mm 18"	8720 kg 19,224 lbs.	38.2 kPa / 0.39 kg/cm ² 5.54 psi
Triple grouser 450 mm 18"	8580 kg 18,916 lbs.	38.2 kPa / 0.39 kg/cm ² 5.54 psi
Triple grouser 600 mm 24"	8750 kg 19,290 lbs.	29.4 kPa / 0.38 kg/cm ² 4.26 psi
Rubber track 450 mm 18"	8500 kg 18,739 lbs.	37.3 kPa / 0.38 kg/cm ² 5.41 psi



WORKING FORCES

	Arm Length	2100 mm 6'11"
ISO rating	Bucket digging force	61.3 kN / 6250 kgf / 13,781 lbs.
	Arm crowd force	36.3 kN / 3700 kgf / 8,161 lbs.
SAE rating	Bucket digging force	53.3 kN / 5440 kgf / 11,982 lbs.
	Arm crowd force	34.3 kN / 3500 kgf / 7,711 lbs.



STANDARD EQUIPMENT

ENGINE:

- Komatsu SAA3D95E-1
- Auto deceleration
- Air cleaner, double element with auto dust evacuator
- B20 Biodiesel compatible*
- Cooling system viscous fan clutch, suction type
- Cooling system with expansion tank
- Engine oil-pan drain cock
- Variable flow turbocharger
- Komatsu Diesel Oxidation Catalyst (KDOC)

ELECTRICAL SYSTEM:

- Alternator, 24 V/60 A
- Batteries, 2 x 12 V/55 Ah
- Battery disconnect switch
- Lock out/tag out provisioned
- Starting motor 24 V/4.5 kW

GUARDS AND COVERS:

- Fan guard
- Pump/engine partition cover
- Diesel ground level fuel fill and hydraulic tank fill cap are under lockable side covers
- Car body bottom guards

OPERATOR ENVIRONMENT:

- 12 V x 2 power supply
- Attachment flow switching through monitor
- Auto climate control
- Auto idle shutdown
- Cab includes: antenna, multifunction audio with USB and Bluetooth wireless technology, floormat, intermittent front windshield wiper and washer, large ceiling hatch, pull-up front window, removable lower windshield
- Handrails
- Komtrax 5.0 (cellular 4G system)
- LED working light on boom
- LED working light on cab
- Lock lever auto lock function
- Monitor panel
- Operator identification function
- Rearview mirrors (LH, rear)
- Rearview monitoring system
- ROPS cab (ISO 12117-2)
- Seat belt, 78 mm **3.1"**
- Suspension seat
- Swing holding brake
- Travel alarm
- Travel Hi/Lo switch on blade control lever

HYDRAULIC SYSTEM:

- Dual stage relief valve
- Proportional Pilot Joystick Control
- Hydraulic control unit-1 additional actuator
- One-way/two-way auxiliary hydraulic flow
- Operation pattern change-over valve (two-way, ISO/BH)
- One-variable piston pump and one gear pump
- Auxiliary circuit return filter and accumulator
- Automatic swing brake
- Automatic load sensing two speed travel

WORK EQUIPMENT:

- Blade 2330 mm **7'7"** (welded cutting edge type)
- Counterweight, 805 kg **1,775 lbs.**

UNDERCARRIAGE:

- Triple grouser shoe, 450 mm **18"**

*Up to 20% blended biodiesel fuel and paraffine fuel can be used. Please consult your Komatsu distributor for detail.



OPTIONAL EQUIPMENT

GUARDS AND COVERS:

- Bolt-on top guard (operator protective guards level 2)
- Cab front guard
 - Full height front window mesh guard (Level 1)

WORK EQUIPMENT:

- Boom,
 - 3405 mm **11'2"** swing type
- Arm,
 - 2100 mm **6'11"** arm assembly with provision for hydraulic thumb
- Blade,
 - 2470 mm **8' 1"** wide blade (requires 600 mm **24"** shoes)

UNDERCARRIAGE:

- Shoes:
 - 450 mm **18"** Road Liner shoes
 - 600 mm **24"** Triple grouser shoes
- Rubber belt track:
 - 450 mm **18"**



ATTACHMENT OPTIONS

- Buckets
- Couplers
- Thumbs

For a complete list of available attachments, please contact your local Komatsu distributor.

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Note: All comparisons and claims of improved performance made herein are with respect to the prior Komatsu model unless otherwise specifically stated.