### LIFTING CAPACITY

<table>
<thead>
<tr>
<th>PC88MR-8</th>
<th>Arm: 1500mm (5')</th>
<th>Bucket: 0.28 m³ (0.37 yd³) SAE heaped</th>
<th>Shoe width: 17.7&quot; triple grouser</th>
<th>Blade on ground</th>
<th>Additional counter weight</th>
<th>Unit: kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Maximum</td>
<td>2.8m</td>
<td>2.3m</td>
<td>2.0m</td>
<td>1.5m</td>
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<tr>
<td>16</td>
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<tr>
<td>8.3m</td>
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<tr>
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<td>880</td>
<td>780</td>
<td>690</td>
<td>620</td>
<td>560</td>
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<td>6</td>
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<td>1610</td>
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<td>1510</td>
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<td>3.6</td>
<td>*1040</td>
<td>870</td>
<td>860</td>
<td>850</td>
<td>840</td>
<td>820</td>
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<td>760</td>
<td>660</td>
<td>560</td>
<td>500</td>
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<tr>
<td>2.1</td>
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<td>850</td>
<td>840</td>
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<td>*1040</td>
<td>870</td>
<td>860</td>
<td>850</td>
<td>840</td>
<td>820</td>
</tr>
</tbody>
</table>

Load is limited by hydraulic capacity rather than tipping. Readings are based on SAE Standard No. J1097. Rounded loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

www.Komatsu.com
**HORSEPOWER**

- **Gross:** 50.7 kW 68 HP @ 1950 rpm
- **Net:** 49 kW 65 HP @ 1950 rpm

**OPERATING WEIGHT**

- 8225 – 8395 kg 18,140 – 18,510 lb

**BUCKET CAPACITY**

- 0.09 – 0.34 m³ 0.12 – 0.45 yd³

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**WALK-AROUND**

**Ecology and Economy Features**

- **Low emission engine**
  
  A powerful, turbocharged and air-to-air aftercooled Komatsu SAA4D95LE-5 provides 49 kW 65 HP. This engine is EPA Interim Tier 4 and EU Stage 3A emissions certified without sacrificing power or machine productivity.

- **Low operation noise**
  
  The dynamic noise is reduced providing low noise operation. See page 4.

**Productivity Features**

- **Tight tail swing**
  
  - Excellent operation in tight tail swing radius design
  - Tail swing radius: 1335 mm 4’5”

- **High mobility**
  
  - Large drawbar pull and swing force are evident when operating on a slope or other rough terrain.
  - Max. drawbar pull: 66.9 kN 6820 kgf 15,050 lb
  - The machine travel speed changes automatically to Hi or Lo at optimal points according to the travel load.

- **Mode selection**
  
  - Economy mode improves fuel consumption.
  - Attachment mode for optimum engine rpm, hydraulic flow, 2way
  - Eco-gauge for energy-saving operations
  - Extended idling caution for fuel conservation
  
  See pages 4 and 5.

**Safety Features**

- Cab dedicated to hydraulic excavator for protecting the operator in the event of a roll over accident.
- Safety enhancement with large side-view and rear-view mirrors.
  
  See page 7.

**Large Comfortable Cab**

- Low noise design cab
- Sliding convex door facilitates easy entrance in confined areas.
- Large cab improves working space.
  
  See page 6.

**Large TFT LCD Monitor**

- Easy-to-see and use 7” large multi-function color monitor
- Can be displayed in 12 languages for global support.

**Easy Maintenance**

- Side-by-side cooling function enables only the cooling unit to be attached and detached.
- Easy access to engine oil filter, engine main fuel filter and fuel drain valve
- Equipped with the fuel pre-filter (with water separator)
- Equipped with the Equipment Management Monitoring System (EMMS) monitoring system.

See pages 4 and 5.

---

**PC88MR-8**

**COMPACT HYDRAULIC EXCAVATOR**

**Photo may include optional equipment.**
Komatsu develops and produces all major components in house such as engines, electronics and hydraulic components. Combining “Komatsu Technology” and customer feedback, Komatsu is achieving great advancements in technology. To achieve both high levels of productivity and economical performance, Komatsu has developed the main components with a total control system. The result is a new generation of high performance and environment-friendly excavators.

**Low Emission Engine**
Komatsu SAA4D95LE-5 is EPA Interim Tier 4 and EU Stage 3A emissions certified.

**Low Operation Noise**
Enables low noise operation using the low-noise engine and methods to cut noise at source.

Electronically controlled common rail type engine
- Multi-staged injection
- Low noise design
  - Optimal arrangement of sound absorbing materials
  - Partition between the cab and engine room

**Working Modes Selectable**
The PC88MR-8 excavator is equipped with five working modes (P, E, L, B and ATT mode). Each mode is designed to match engine speed and pump speed with the current application. This provides the flexibility to match equipment performance to the job at hand.

<table>
<thead>
<tr>
<th>Working Mode</th>
<th>Application</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Power mode</td>
<td>Maximum production power, Fast cycle times</td>
</tr>
<tr>
<td>E</td>
<td>Economy mode</td>
<td>Good cycle times, Better fuel economy</td>
</tr>
<tr>
<td>L</td>
<td>Lifting mode</td>
<td>Engine rpm reduction</td>
</tr>
<tr>
<td>B</td>
<td>Breaker mode</td>
<td>Optimum engine rpm, hydraulic flow</td>
</tr>
<tr>
<td>ATT/P or ATT/E</td>
<td>Attachment mode</td>
<td>Optimum engine rpm, hydraulic flow, Delay</td>
</tr>
</tbody>
</table>

*It is possible to select ATT/P mode or ATT/E mode.

**Improved Swing Performance**
Powerful swing force increases work efficiency on slopes.

**Ecogauge that Assists Energy-saving Operations**
The Eco-gauge on the right side of the multi-function color monitor provides environment-friendly energy-saving operation. Allows focus on operation in the green range with reduced CO₂ emissions and efficient fuel consumption.

**Idling Caution**
To prevent unnecessary fuel consumption, an idling caution is displayed on the monitor, if the engine idles for 5 minutes or more.

**High Mobility**
The PC88MR-8 exceptional travel performance is provided by large drawbar pull and single pump with double flow, and it demonstrates superb maneuverability while operating at its optimum travel speed. It exhibits a large drawbar pull for moving on job sites, traveling in rough terrain and climbing steep slopes.

- **Maximum drawbar pull:** 66.9 kN 6820 kgf 15050 lb

**Against wall**
PC88MR-8 can efficiently work by using swing boom.

**Improved Swing Performance**
Powerful swing force increases work efficiency on slopes.

**Auto-decel**
Engine speed automatically slows down when all control levers are set in neutral to minimize fuel consumption.

**Two Automatic Travel Speeds**
High or low—whichever speed suits the ground and job conditions—can be selected with one touch. As terrain changes, travel speed will automatically shift up or down within the selected speed range.

**Tight Tail Swing**
The narrow swing area is well suited for operation in confined areas with only a 175mm (6.9 inch) protrusion over the tracks.

**Road & bridge work Road construction**

**Road & bridge work**

**Road construction**

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**WORKING ENVIRONMENT**

**Large Comfortable Cab**

- **Multi-position Controls**
  The multi-position, PPC (pressure proportional control) levers allow the operator to work in comfort while maintaining precise control. A double-slide mechanism allows the seat and controllers to move together or independently, allowing the operator to position the seat and controllers for maximum productivity and comfort.

- **Large Cab**
  Large cab provides ample operation space. The cab has wide doorway for easy access.

- **Automatic Air Conditioner**
  Automatic air conditioner is utilized. The bi-level control function keeps the operator's head and feet cool and warm respectively. This improved air flow function keeps the inside of the cab comfortable throughout the year. Defroster function keeps cab glass clear.

- **Sliding Convex Door**
  The sliding convex door facilitates easy entrance in confined areas.

**Safety Features**

- **New Cab Design for Hydraulic Excavators**
  The cab is designed specifically for hydraulic excavators and gains reinforced strength from the pipe-structured cab framework. The cab framework provides the high durability and impact resistance with very high impact absorbency. The seat belt keeps the operator in the seat of the cab in the event of a roll over.

- **Anti-slip Plates**
  Highly durable anti-slip plates maintain superior traction performance for the long term.

- **Lock Lever**
  When lock lever is placed in lock position all hydraulic controls (travel, swing, boom, arm, bucket, boom swing and blade) are inoperable.

- **Retractable Seat Belt**
  Easy-to-use retractable seat belt is employed.

- **Emergency Escape Hammer**
  The cab is equipped with an emergency escape hammer for breaking the rear window glass in case of an emergency.

- **Wide Visibility**
  Large cab and extended front glass enable operator to get better visibility.

- **Side-view and Rear-view Mirrors**
  Large side mirror and rear mirror allow the PC88MR-8 to meet the new ISO visibility requirements.

- **Thermal and Fan Guards**
  Thermal and fan guards are placed around high-temperature parts of the engine and fan drive.

- **Skylight**
  Skylight with window can be opened for overhead visibility.

- **Travel Alarm**
  An alarm is installed as standard equipment to give other workers a warning when the machine travels in forward or reverse.

- **Pump/engine Room Partition**
  Pump/engine room partition prevents oil from spraying onto the engine if a hydraulic hose should burst.

- **Low Cab Noise**
  Cab is highly rigid and has excellent sound absorption ability. Thorough improvement of noise source reduction and use of low noise engine, hydraulic equipment, and air conditioner allows this machine to generate a low level of noise.

- **Thermal and Fan Guards**
  Thermal and fan guards are placed around high-temperature parts of the engine and fan drive.

- **Reinforced Strength**
  The cab framework provides the high durability and impact resistance with very high impact absorbency.

- **Impact Absorbency**
  The seat belt keeps the operator in the seat of the cab in the event of a roll over.
**Easy Maintenance**

Komatsu designed the PC88MR-8 to have easy service access. By doing so, routine maintenance and servicing are less likely to be skipped, which can mean a reduction in costly downtime later on. Here are some of the many service features found on the PC88MR-8.

**Optimum Maintenance Layout**

With the engine hood, right side hood and side service doors, it is possible to access the major maintenance points from ground level. Furthermore, the fuel drain valve, engine oil filter and swing machinery oil filter are remote mounted, facilitating easy maintenance.

**Side-by-side Cooling**

Since radiator, aftercooler and oil cooler are arranged in parallel, it is easy to clean, remove and install them. Radiator, aftercooler, and oil cooler made of aluminum have high cooling efficiency and are easily recycled.

**Equipped with the Fuel Pre-filter (with Water Separator)**

Removes water and contaminants in the fuel to prevent fuel problems. (with built-in priming pump)

**Air Conditioner Filter**

The air conditioner filter is removed and installed without the use of tools facilitating filter maintenance.

**Easy Access to Engine Oil Filter, Engine Main Fuel Filter and Fuel Drain Valve**

Engine oil filter, engine main fuel filter and fuel drain valve are remote mounted to improve accessibility.

**Long Greasing Interval**

All bushing lubrication intervals of work equipment except arm top bushings are 500 hours, reducing maintenance cost.

**Large TFT LCD Monitor**

A large user-friendly color monitor enables safe, accurate and smooth work. Improved screen visibility is achieved by the use of TFT liquid crystal display that can easily be read at various angles and lighting conditions. Simple and easy to operate switches. Industry first function keys facilitate multi-function operations. Displays data in 12 languages to globally support operators around the world.

**EMMS (Equipment Management Monitoring System)**

Monitor function

Controller monitors engine oil pressure, coolant temperature and battery charge etc. If controller finds any abnormality, it is displayed on the LCD.

Maintenance function

Monitor informs replacement time of oil and filters on LCD when the replacement interval is reached.

Trouble data memory function

Monitor stores abnormalities for effective troubleshooting.

**Option**

**Roadliner**

Ideal performance has been achieved with combining the merits of rubber and the strengths of steel in the new Road Liner shoes.

**Optional Blade**

Bolt-on cutting edge type

**Additional Counter Weight**

Additional weight is designed for increased lift capacity and easy installation.
PC88MR-8 Compact Hydraulic Excavator

Specifications

Engine

- Model: Komatsu SAA4D95E-5
- Type: Water-cooled, 4-cylinder Turbocharged, air-to-air intercooler
- Number of cylinders: 4
- Bore x stroke: 96 mm x 145 mm (3.78" x 5.71")
- Piston displacement: 3.26 ltr 199 ci
- Governor: All-speed control, electronic
- Horsepower: SAE J1995 Gross 55.0 kW 73.8 HP
- ISO 9249 / SAE J1995 Net 49 kW 65.6 HP
- Rated rpm: 1800 rpm
- Fuel system: Direct injection
- Lubrication system: Gear pump, force-lubrication

Swing System

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

Drives and Brakes

- Starting control: Two levered with paddles
- Drive method: Hydrostatic
- Maximum drawbar pull: 66.5 kN 15,050 lb
- Maximum travel speed: High: 5.1 km/h 3.2 mph
- Service brake: Low: 2.9 km/h 1.8 mph
- Parking brake: Hydraulic

Hydraulics System

- Type: Hydramind (Hydraulic Mechanical Intelligence New Design) system, Closed-center system with load-sensing valve and pressure-compensated valve
- Main pumps: 1 - 4.5 MW 24 V
- Pump for: Boom, arm, bucket and travel circuits
- Type: Variable displacement, axial piston
- Maximum flow: 160 l/min 42.3 US. gal/min
- Pump for: Swing and blade
- Type: Fixed displacement gear
- Maximum flow: 70 l/min 18.5 US. gal/min

Hydraulic motors:
- Hydraulic: 2 x piston motor with parking brake
- Swing: 1 x piston motor with swing holding brake

Relief valve setting:
- Circuit, implement, travel circuit: 26.5 MPa 3840 psi
- Swing: 2.8 MPa 392 psi
- Hydraulic: 0.7 MPa 101 psi

Coolant and Lubricant Capacity (Refilling)

- Fuel tank: 7.4 U.S. gal 28 ltr
- Swing drive: 3.0 U.S. gal 11.4 ltr
- Travel: 2.6 U.S. gal 9.7 ltr
- Main pumps: 1.8 U.S. gal 6.8 ltr
- Swing and blade: 0.7 U.S. gal 2.6 ltr
- Main gear oil: 0.2 U.S. gal 0.8 ltr

Working Range

- Maximum digging range: 2440 mm 96"
- Machine cab height: 2050 mm 81"
- Machine cab width: 1580 mm 62"
- Minimum ground clearance: 350 mm 14"
- Tail swing radius: 2700 mm 106"
- Track length: 2400 mm 94.5"
- Track gauge: 1670 mm 65.8"
- Weight of crawler: 3300 kgf 7300 lbf
- G.L.: 49 kW 68 HP
- ISO 9249 / SAE J1349 Net: 42.3 U.S. gal/min
- SAE J1995 Gross: 49 kW 68 HP
- N: 1950 rpm
- Governor: All-speed control, electronic

Standard Equipment

- Air cleaner, double element with auto dust evacuator
- Alternator, 35 Amp, 24 V
- Automatic air conditioner
- Auto deacceleration
- Batteries, 55 Ah x 2 12 V
- Blade

- Cab which includes: floor mat, intermittent front windshield wiper and washer, large seating hatch, pull-up front window, removable lower windshield
- Cooling fan, suction type
- Monitor panel
- Rear view mirrors (LH, RH)
- Seat belt 50mm 2"
- Seat: 450mm 17.7" Triple grouser
- Starting motor 4.5kW
- Suspension seat
- Travel alarm
- Working light on boom

Undercarrage

- Center frame: X-frame
- Track frame: Box-section
- Seal of track: Hydraulic
- Track adjustor: Hydraulic
- Number of shoes: 39 each side
- Number of carrier rollers: 1 each side
- Number of track rollers: 5 each side
- Track length on ground: 2755 mm 108.5"
- Track gauge: 1670 mm 65.8"
- Weight of crawler: 3300 kgf 7300 lbf
- Suspension seat: Travel alarm
- Automatic air conditioner
- Cooling fan, suction type
- Monitor panel
- Rear view mirrors (LH, RH)
- Seat belt 50mm 2"
- Seat: 450mm 17.7" Triple grouser
- Starting motor 4.5kW
- Suspension seat
- Travel alarm
- Working light on boom

Operating Weight (Approximate)

- Operating weight including 3405 mm 115" one-piece boom, 1650 mm 65" arm, SAE heaped 0.28 m³ 0.37 yd³ backhoe bucket, blade, rated capacity of lubricants, coolant, full tank fuel, operator, and standard equipment.

<table>
<thead>
<tr>
<th>Shoes</th>
<th>Operating Weight</th>
<th>Ground Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>450</td>
<td>17.7</td>
<td>8225</td>
</tr>
<tr>
<td>500</td>
<td>23.8</td>
<td>6095</td>
</tr>
</tbody>
</table>

Dimensions

- Boom Length: 3405 mm 115" 3405 mm 115"
- Arm Length: 1650 mm 65" 2100 mm 81.1"
- Overall weight: 6175 mm 20.3" 6650 mm 22.1"
- Overall height (to top of boom): 2240 mm 7.4" 2615 mm 8.7"

Working Range

- Boom Length: 3405 mm 115" 3405 mm 115"
- Arm Length: 1650 mm 65" 2100 mm 81.1"
- Overall height (to top of boom): 2240 mm 7.4" 2615 mm 8.7"

Backhoe Bucket and Arm Combination

- Bucket Capacity (Rated): Width
  - SAE: 0.65 m³ 0.85 yd³
  - JIS: 0.63 m³ 0.81 yd³
- Bucket Capacity (Capable): Width
  - SAE: 0.65 m³ 0.85 yd³
  - JIS: 0.60 m³ 0.76 yd³
- SAE Bucket Capacity: 0.75 m³ 0.98 yd³
- JIS Bucket Capacity: 0.70 m³ 0.94 yd³
- Bucket Width: 460 mm 18" 440 mm 17.3"
- SAE Bucket Width: 460 mm 18"
- JIS Bucket Width: 440 mm 17.3"
- Bucket Length: 500 mm 19.7" 500 mm 19.7"
- SAE Bucket Length: 480 mm 19" 500 mm 19.7"
- JIS Bucket Length: 460 mm 17.3" 500 mm 19.7"
- Bucket Opening Width: 295 mm 11.6"
- SAE Bucket Opening Width: 295 mm 11.6"
- JIS Bucket Opening Width: 295 mm 11.6"
- Bucket Opening Length: 290 mm 11.4"
- SAE Bucket Opening Length: 290 mm 11.4"
- JIS Bucket Opening Length: 290 mm 11.4"
- Bucket Depth: 440 mm 17.3" 440 mm 17.3"
- SAE Bucket Depth: 440 mm 17.3"
- JIS Bucket Depth: 440 mm 17.3"
- Bucket Depth: 440 mm 17.3" 440 mm 17.3"
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- JIS Bucket Depth: 440 mm 17.3"
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