KOMATSU

WA100M-8
EU Stage V Engine

ENGINE POWER
69.8 kW / 93.6 HP @ 2.000 rpm

OPERATING WEIGHT
7.035 - 7.430 kg

BUCKET CAPACITY
1.05 - 1.8 m³
Walk-Around
## ENHANCED FUEL EFFICIENCY AND ENVIRONMENTAL PERFORMANCE

### Powerful and Environmentally Friendly
- EU Stage V engine
- Greater engine power
- Increased capacity for the standard bucket
- Faster travel speed
- Wide-core radiator
- Highly efficient hydrostatic drive line
- Low operating costs

### First-Class Comfort
- Large multifunctional monitor
- Improved, ergonomic control elements
- PPC multi-function lever with optional electronic control for 3rd and 4th spool (EPC)
- Air conditioner (optional)
- Electronic Controlled Suspension System (ECSS) (optional)

### Total versatility
- 3rd and 4th hydraulic circuits at machine rear (optional)
- High flow version (optional) (max. 120 l/min at 210 bar)
- Height-adjustable trailer hitches (optional)
- Easy Fork (EF) kinematic for parallel movement during fork application

### Productive and safe
- Improved rear visibility, complies with ISO 5006
- Highest payloads and tipping loads
- Superior breakout force
- Low centre of gravity

### KOMTRAX
- Komatsu Wireless Monitoring System
- 3G mobile communications
- Integrated communication antenna
- Increased operational data and fuel savings
### Specifications

#### ENGINE

- **Model**: Komatsu SAA4D94LE-3
- **Type**: Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
- **Engine power**
  - at rated engine speed: 2,000 rpm ISO 14396: 69,8 kW / 93,6 HP
- **Max. torque/engine speed**: 394 Nm/1,475 rpm
- **No. of cylinders**: 4
- **Bore x stroke**: 94 × 110 mm
- **Displacement**: 3,05 l
- **Air-filter type**: Dry air filter with pre-filter and safety cartridge

#### TRANSMISSION

- **Drive system**: Hydrostatic transmission
- **Hydrostatic pump**: 1 variable piston pump
- **Hydrostatic motor**: 1 variable piston motor
- **Speed ranges (forwards/backwards)**: 2/2
- **Max. travel speeds (forwards/backwards)**: 20 km/h version
  - 1. speed range: 0 - 6,0 km/h
  - 2. speed range: 0 - 20,0 km/h
  - Creep: 0 - 10,0 km/h
- **Max. travel speeds (forwards/backwards)**: 40 km/h version
  - 1. speed range: 0 - 15 km/h
  - 2. speed range: 0 - 40 km/h
  - Creep: 0 - 10 km/h

#### CHASSIS AND TYRES

- **Type**: Low build rear axle oscillation for optimum stability and for best performance in earthmoving applications
- **System**: 4-wheel drive
- **Axles**: Planetary rigid axles with automatic limited slip differentials in both axles 100% locking differentials as option
- **Oscillation**: Rear axle oscillation for optimum stability, oscillation angle 10°
- **Tyres**: 455/70 R20 (standard)

#### SERVICE REFILL CAPACITIES

- **Cooling system**: 22,3 l
- **Fuel tank**: 110 l
- **Engine oil**: 10,5 l
- **Hydraulic system**: 50 l
- **Front axle**: 9,1 l
- **Rear axle**: 9,1 l
- **Transfer (20 km/h / 40 km/h)**: 1,3 / 1,6 l
- **AdBlue® tank**: 20 l

#### BRAKES

- **Operating brakes**: Combined inch brake pedal actuates maintenance free, wet multi-disc type brakes in the front axle
  - Self-braking via the hydrostatic drive
- **Parking brake**: Integrated wet multi-disc type brake

#### HYDRAULIC SYSTEM

- **System**: Open hydraulic system
- **Working pressure (max.)**: 270 bar
- **Maximum pump flow**: 75 l/min
  - **Option**: 120 l/min
- **No. of boom/bucket cylinders**: 2/1
- **Type**: Double-action
- **Bore diameter x stroke**: 80 × 714 mm
  - **Boom cylinder**: 100 × 476 mm
  - **Hydraulic control lever**: Multifunction lever
  - **Hydraulic cycle with rated load bucket filling**
    - **Raise time**: 5,7 s
    - **Lowering time (empty)**: 3,7 s
    - **Dumping time**: 1,3 s

#### STEERING SYSTEM

- **System**: Articulated frame steering
- **Type**: Hydraulic
- **Steering angle to either side**: 42°
- **Steering pump**: Gear pump
- **Working pressure**: 175 bar
- **No. of steering cylinders**: 2
- **Type**: Double-action
- **Bore diameter x stroke**: 60 × 369 mm
  - **Smallest turn (outer edge of tyre 455/70 R20)**: 4,130 mm

#### CABIN

- **Cabin in conformity with ISO 3471 with ROPS (roll over protective structure) in conformity with SAE J1040c and FOPS (falling object protective structure) in conformity with ISO 3449. The pressurised cabin is mounted upon hydrobearings and is noise dampened. Tiltable for best servicing access.**

#### ENVIRONMENT

- **Engine emissions**: Fully complies with EU Stage V exhaust emission regulations
- **Noise levels**
  - **Noise levels (external/internal)**: Fully comply with 2000/14/EC Stage 2 and 98/37/EC
  - **Vibration levels (EN 12096:1997)**
    - **Hand/arm**: ≤ 2,5 m/s² (uncertainty K = 0,75 m/s²)
    - **Body**: ≤ 0,5 m/s² (uncertainty K = 0,53 m/s²)
- **Contains fluorinated greenhouse gas HFC-134a (GWP 1430). Quantity of gas 1,2 kg, CO₂ equivalent 1,72 t.**
### MEASUREMENTS AND WORKING SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>Universal</th>
<th>Light materials</th>
<th>4-in-1</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>w. teeth</td>
<td>w/o teeth</td>
<td>w. teeth</td>
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<tr>
<td><strong>Bucket capacity (heaped, ISO 7546)</strong></td>
<td>m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sales code</td>
<td>C61</td>
<td>C11</td>
<td>C14</td>
</tr>
<tr>
<td>Material density</td>
<td>t/m³</td>
<td></td>
<td></td>
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<tr>
<td>Bucket weight</td>
<td>kg</td>
<td></td>
<td></td>
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<tr>
<td>Static tipping load, straight</td>
<td>kg</td>
<td></td>
<td></td>
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<tr>
<td>Static tipping load, 40° articulated</td>
<td>kg</td>
<td></td>
<td></td>
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<tr>
<td>Break-out force hydraulic</td>
<td>kN</td>
<td></td>
<td></td>
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<tr>
<td>Lifting capability hydr. at ground level</td>
<td>kN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating weight</td>
<td>kg</td>
<td></td>
<td></td>
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<tr>
<td>Turning radius at corner of tyres</td>
<td>mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turning radius at bucket edge</td>
<td>mm</td>
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<tr>
<td>Reach at 45°</td>
<td>mm</td>
<td></td>
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<tr>
<td>Dump height at 45°</td>
<td>mm</td>
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<td></td>
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<tr>
<td>Hinge pin height</td>
<td>mm</td>
<td></td>
<td></td>
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<tr>
<td>Height top edge of bucket</td>
<td>mm</td>
<td></td>
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<tr>
<td>Digging depth</td>
<td>mm</td>
<td></td>
<td></td>
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<tr>
<td>Max. loading height at 45°</td>
<td>mm</td>
<td></td>
<td></td>
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<tr>
<td>Overall length, bucket grounded</td>
<td>mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheelbase</td>
<td>mm</td>
<td></td>
<td></td>
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<tr>
<td>Bucket width</td>
<td>mm</td>
<td></td>
<td></td>
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<tr>
<td>Width over tyres</td>
<td>mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Track width</td>
<td>mm</td>
<td></td>
<td></td>
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<tr>
<td>Ground clearance</td>
<td>mm</td>
<td></td>
<td></td>
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<tr>
<td>Overall height</td>
<td>mm</td>
<td></td>
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All measurements with tyres 455/70 R20
PERFORMANCE FIGURES WITH FORK TINES

<table>
<thead>
<tr>
<th>Sales code</th>
<th>C24</th>
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<tbody>
<tr>
<td>Fork tine type</td>
<td>FEM IIIA</td>
</tr>
<tr>
<td><strong>Fork tine length</strong></td>
<td><strong>mm</strong></td>
</tr>
<tr>
<td>g Max. reach at ground level</td>
<td>mm</td>
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<tr>
<td>h Max. reach</td>
<td>mm</td>
</tr>
<tr>
<td>i Max. reach at max. stacking height</td>
<td>mm</td>
</tr>
<tr>
<td>l Hinge pin height</td>
<td>mm</td>
</tr>
<tr>
<td>m Max. stacking height</td>
<td>mm</td>
</tr>
<tr>
<td>n Height of forks at maximum reach</td>
<td>mm</td>
</tr>
<tr>
<td>Max. tipping load, straight</td>
<td>kg</td>
</tr>
<tr>
<td>Max. tipping load, articulated</td>
<td>kg</td>
</tr>
<tr>
<td>Max. payload as per EN 474-3, 80%</td>
<td>kg</td>
</tr>
<tr>
<td>Max. payload as per EN 474-3, 60%</td>
<td>kg</td>
</tr>
<tr>
<td>Weight in working order with fork tines</td>
<td>kg</td>
</tr>
</tbody>
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## Standard and Optional Equipment

### ENGINE
- Komatsu SAA4D94LE-3 turbocharged common rail direct injection diesel engine
- EU Stage V compliant
- Alternator 150 A/12 V
- Starter motor 3.0 kW/12 V
- Battery 100 Ah/12 V

### TRANSMISSION AND BRAKES
- Combined inch/brake pedal
- Creeping function (40 km/h version)
- Creeping function (20 km/h version)
- 20 km/h limited hydrostatic driveline
- 40 km/h limited hydrostatic driveline

### CABIN
- Spacious double door driver’s cab to DIN/ISO with heating
- Tilting cab
- ROPS/FOPS frame according to SAE
- Heated rear window
- Rear window wiper
- Sun visor
- Adjustable steering column
- Suspended seat
- Seat belt (EU standard)
- Multi-function colour monitor with Equipment Management and Monitoring System (EMMS) and efficiency guidance

### CABIN ACCESSORIES
- 12 Volt power supply
- Front window wiper with intermittent feature
- Adjustable high comfort air suspension seat
- Air conditioning
- Hydraulic dump control for trailer
- Radio
- Sun reflection decal for cab/canopy roof

### SAFETY EQUIPMENT
- Emergency steering system
- Back-up alarm
- Horn
- Emergency engine stop switch
- Seat belt caution indicator
- Battery main switch
- Beacon light
- Immobiliser
- Immobiliser with master key
- Anti-drop valve
- Fire extinguisher

### OTHER EQUIPMENT
- Z-bar boom (parallel movement when using dedicated fork tines)
- Counterweight
- Towing device
- Electronically controlled suspension system load stabilizer (ECSS)
- Special custom colour
- Bucket level indicator
- Additional counterweight 185 kg
- Ball-type hitch (acc. to German road regulation StVZO)
- Automatic hitch (acc. to German road regulation StVZO)
- Height-adjustable hitch (acc. to German road regulation StVZO)

### SERVICE AND MAINTENANCE
- KOMTRAX – Komatsu wireless monitoring system
- Tool-set
- Wide-core radiator
- Radiator fan with reversing function
- Automatic central lubrication

### ATTACHMENTS
- Bucket with or without teeth
- 4-in-1 bucket
- Light material buckets
- Fork carrier and tines
- Cutting edge guard

The WA100M-8 is equipped in accordance with the safety regulations of the machinery guidelines 89/392 EWG ff and EN474.

- standard equipment
- optional equipment

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