Komatsu

WA700-3

Bucket Capacity
8.7 – 9.4 m³
11.4 – 12.3 yd³

Wheel Loader

Photo may include optional equipment.
Proven Power
The field-proven Komatsu six-cylinder, direct-injection turbo-charged SAA6D-170E-3 engine has all the capability needed for today’s tough operations.

Reliable Power Train
The engine, torque converter and transmission, as well as the hydraulic equipment and electrical parts, undergo strict quality control checks, ensuring enhanced reliability and durability.

Durable Bucket
Komatsu buckets are manufactured using high-tensile steel with replaceable welded wear plates for extended bucket life. Sufficient strength has been incorporated into the bucket bottom corners, side edges and spill guard ends for increased durability.

Bucket capacity
Excavating bucket 8.7 m³ (11.4 cu. yd)
General-purpose bucket 9.4 m³ (12.3 cu. yd)

Large Dumping Clearance
The WA700-3 is designed with ample dumping clearance for dump truck loading.

High Breakout Force
Komatsu wheel loaders use high-tensile steel for Z-bar loader linkage to give maximum rigidity, ensuring durability for high breakout force. Sealed loader linkage pins extend greasing intervals.

Excellent Stability
The WA700-3 has a wide tread 3,000 mm (9’10”) and the longest wheelbase in its class 4,800 mm (15’9”), for maximum machine stability.
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Focus on Operator Comfort and Easy Maintenance

Smooth Electronic Automatic Transmission (Optional)
With the electronic automatic transmission, you can always enjoy the optimum speed for the machine conditions. Clutch engagement during gear shifting is smooth, so that time lag and shock are small and ride comfort is ensured. When ascending or descending a slope or while operating, the automatic transmission can easily be set to manual shift by using the switch.

AJSS (Advanced Joystick Steering System) (Optional)
The most suitable steering system for wheel loader operation should be both smooth and effortless to operate. With this in mind, using its hydraulic and electronic control technology, Komatsu has created AJSS. This system allows the machine operator to articulate the machine proportionally with the angle of the control joystick. He can actually develop a ‘feel’ for the steering articulation and thus increase his operation efficiency.

Faster Pile-Penetration & Scooping
A kick-down switch down-shifts the transmission from forward 2nd to 1st gear for increased rim pull, hence improved bucket filling. When the direction control lever is set to reverse, it automatically up-shifts from 1st to 2nd gear, reducing cycle time.

Ergonomically-Designed Controls
All controls are ergonomically designed to minimize operator fatigue. The steering wheel and instrument panel are similar to those of a car. The bucket and boom controls have PPC valves and short-travel levers to reduce operator effort. With the electronically-controlled transmission, direction and gearshift control levers can be finger-operated while holding the steering wheel with the same hand, allowing instant, positive direction and gearshift changes.

Comfortable Operator’s Seat
The operator’s seat has a reclining, air suspension design with headrest to support the operator comfortably during long periods of operation. Also, air suspension makes adjusting the seat height easy.

Tilttable Steering Column & One-Glance Monitors
The steering column can be easily tilt-adjusted to the most comfortable position with a lever. Together with the two-spoke steering wheel design, this guarantees better vision of the monitors.

Stair Light (Optional)
The stair light, which illuminates the rear access stairs for about a minute, is operated by a switch inside the cab, regardless of ignition key position.

Roomy, Quiet Cab
With Power Windows
The cab is large, with a spacious interior and power windows. Also, a wide viewing angle is guaranteed because the cab is pillarless. By adopting a high-capacity air conditioner, Komatsu ensures operator comfort, no matter the exterior conditions. Another feature designed with operators in mind is a lunchbox storage space.

Low Vibration & Noise
The cab rests on Komatsu viscous damping mounts (rubber and silicon oil) to reduce vibration and noise. All hydraulic equipment is mounted on high-resistance rubber to further reduce vibration and noise.

Auto-Greasing System (Optional)
The periodic lubrication points, except for the drive shaft, are greased automatically according to a preset amount and interval. Quick-change grease canisters make replacement easy and clean.

Simple Checks, Easy Maintenance
The main monitor and the maintenance monitor (EDIMOS II) are neatly arranged on the instrument panel to give a quick, clear reading of machine functions at all times. The main monitor also has a diagnostic function.

High-Quality Paint
Most exterior plates are treated with a cationic electro-deposition undercoat and melamine baked final coating for rust resistance and longer service life.

Maintenance-Free Braking System
Service brakes employ two hydraulically-actuated independent circuits for increased safety. The brakes are adjustment-free, fully-sealed, wet disc units, preventing intrusion of dirt and dust. Since the brake system does not use air, it provides many features such as absence of condensation, dependable braking even in cold conditions, no need for drainage, and rust-free piping. What’s more, charging time after engine starting is drastically shortened and pedal depressing effort is reduced.

AJSS (Advanced Joystick Steering System)(Optional)
Tiltable Steering Column & One-Glance Monitors
Low Vibration & Noise
Stair Light (Optional)
Simple Checks, Easy Maintenance
High-Quality Paint
Maintenance-Free Braking System

Focus on Operator Comfort and Easy Maintenance
Focus on Operator Comfort and Easy Maintenance

Smooth Electronic Automatic Transmission (Optional)
With the electronic automatic transmission, you can always enjoy the optimum speed for the machine conditions. Clutch engagement during gear shifting is smooth, so that time lag and shock are small and ride comfort is ensured. When ascending or descending a slope or while operating, the automatic transmission can easily be set to manual shift by using the switch.

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Low Vibration & Noise
The cab rests on Komatsu viscous damping mounts (rubber and silicon oil) to reduce vibration and noise. All hydraulic equipment is mounted on high-resistance rubber to further reduce vibration and noise.

Air suspension seat option

Transmission forward/reverse and shift control switches are mounted on the joysticks.

Kick-down switch

Viscous damping mounts

Rubber

Silicon oil

Stair Light (Optional)
The stair light, which illuminates the rear access stairs for about a minute, is operated by a switch inside the cab, regardless of ignition key position.

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Silicon oil

Auto-Greasing System (Optional)
The periodic lubrication points, except for the drive shaft, are greased automatically according to a preset amount and interval. Quick-change grease canisters make replacement easy and clean.

Kick-down switch

Fully-sealed wet disc brake

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Auto-Greasing System (Optional)
The periodic lubrication points, except for the drive shaft, are greased automatically according to a preset amount and interval. Quick-change grease canisters make replacement easy and clean.
**Hydraulic System**

- **Steering system:**
  - Hydraulic pump: 203 ltr/min, 53.6 U.S. gal/min at rated RPM
  - Relief valve setting: 320 kg/cm², 4,550 PSI

- **Hydraulic cylinders:**
  - Type: Double-acting, piston type
  - Bore x stroke: 130 mm x 532 mm
  - 5.1” x 20.9”

- **Loader control:**
  - Hydraulic pump: 405 ltr/min, 107.0 U.S. gal/min at rated RPM
  - Relief valve setting: 320 kg/cm², 4,550 PSI

**Reciprocating System**

- **Steering angle:** 40° each direction

**Transmission**

- Torque converter:
  - Type: Double-acting, piston type
  - No. of cylinders x stroke: 2-225 mm x 1,196 mm
  - 8.9” x 47.1”

- Bucket cylinder:
  - 1-280 mm x 729 mm
  - 11.0” x 28.7”

**Bucket Selection**

- Excavating bucket (straight edge) with tip angle:
  - 8.7 lb - 7.6 lb

- Excavating bucket (spade nose) with tip angle:
  - 8.7 lb - 7.6 lb

- General purpose bucket (straight edge) with tip angle:
  - 9.4 lb - 8.2 lb

- *Excluding tire protectors

**Weights and Dimensions**

- **Gross vehicle weight:** 26,780 lb (12,150 kg)

**Performance**

- **Flywheel horsepower:** 502 kW (672 HP) (SAE J1349)
- **Rated RPM:** 2,000 RPM
- **Fuel system:** Direct injection
- **Governor:** Electronic, all-speed control

**Service Refill Capacities**

- **Hydraulic system:**
  - Cooling system: 209 ltr, 55.2 U.S. gal
  - Fuel tank: 1,100 ltr, 290.6 U.S. gal

- **Engine:**
  - 52 Hz, 13.7 U.S. gal

- **Air cleaner:** Dry type with double elements

- **Air conditioner:**
  - 27.7 U.S. gal
  - 103,200 ltr.

- **Cooling system:**
  - 64.7 U.S. gal
  - 245 ltr.

- **Torque converter and transmission:**
  - 124.2 U.S. gal
  - 470 ltr.

**Optional Equipment**

- **Buckets:** Various types
- **Tires:** Different sizes

**Weights**

- **Operating weight:** Change in operating weight
  - 2,535 lb
  - 1,150 kg
  - 3,180 lb
  - 1,440 kg

- **Tipping load change:**
  - 4.0
  - 6.4
  - 9.7

**Service Refill Capacities**

- **Engine:**
  - 124.2 U.S. gal
  - 470 ltr.

- **Transmission:**
  - 245 ltr.

- **Air conditioner:**
  - 27.7 U.S. gal
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**Optional Equipment**

- **Buckets:** Various types
- **Tires:** Different sizes
**SPECIFICATIONS**

**ENGINE**

- **Model**: Komatsu SAA6D170E-3
- **Type**: Turbocharged and aftercooled
- **Aspiration**: 23.15 in, 1,413 ccm
- **Flywheel horsepower**: 502 kW / 672 HP (SAE J1349)
- **Rated RPM**: 2,000 RPM
- **Fuel system**: Direct injection
- **Governor**: Electronic, all-speed control
- **Cooling system**: Full-flow type
- **Air cleaner**: Dry type with double elements and dust evacuator, plus dust indicator

**HYDRAULIC SYSTEM**

- **Steering system:**
  - Hydraulic pump: 203 ltr/min, 53.6 U.S. gal/min at rated RPM
  - Relief valve setting: 320 kg/cm², 4,550 PSI
- **Hydraulic cylinders:**
  - Type: Double-acting, piston type
  - No. of cylinders: 2
  - Bore x stroke: 130 mm x 532 mm
  - Stroke: 51° x 20.9°
  - Loader control:
    - Hydraulic pump: 405 ltr/min, 107.0 U.S. gal/min at rated RPM
    - Relief valve setting: 320 kg/cm², 4,550 PSI

**Steering angle**:

- **Minimum turning radius at the center of outside tire (straight edge with tipplate):**
  - 4.4 ft
  - 1.3 m

**T I R E S**

- **Select ideal tires depending on job requirements.**
  - 40/65-39 PR (L-5)
  - 45/65-39-R (L-5)
  - 502 kW
  - 691 HP (SAE J1349)
  - 502 kW
  - 691 HP (SAE J1349)

**STANDARD EQUIPMENT**

- **Engine key stop**
- **Boom kickout**
- **Electronic display/monitoring system**
- **Electrically controlled transmission**
- **Tiltable steering wheel**
- **Emergency steering**
- **Vandalism protection kit**
- **Fire extinguisher**
- **Tool kit**

**OPTIONAL EQUIPMENT**

- **Bucket teeth (tip type)**
- **Bucket corner teeth**
- **ROPS canopy**
- **Steel cab** (included front wiper, windshield wiper, power window)

**OPERATIONAL SPECIFICATIONS**

- **Performance:**
  - Heaped Struck width*weight force (lbs)
  - Crack: 9.4 8.2 4,330 7,150 62,400
  - General: 11.4 9.9 142° 142° 142°

**BOOM SELECTION**

- **Excavating bucket (straight edge with tipplate):**
  - 8.4 7.6 142° 142° 142°
  - 8.4 7.6 142° 142° 142°
  - 8.4 7.6 142° 142° 142°

**WEIGHT CHANGES**

- **Change in operating weight:**
  - Straight full turn
  - Remove ROPS canopy
  - Remove steel cab
  - Remove teeth and adapter

**SERVICE REEFIL CAPACITIES**

- **Cooling system:**
  - 209 ltr, 55.2 U.S.gal
  - Fuel tank:
    - 1,100 ltr, 293.6 U.S.gal
  - Engine:
    - 52 ltr, 13.7 U.S.gal
  - Hydraulic system:
    - 470 ltr, 124.2 U.S.gal
  - Axle (each front and rear):
    - 245 ltr, 64.7 U.S.gal
  - Torque converter and transmission:
    - 105 ltr, 27.7 U.S.gal

**BRACKES**

- **Service brakes:**
  - 4-wheel, systematic brake for front/rear wheel, hydraulically actuated, wet disc
- **Parking brake:**
  - Dry-disc type, hydraulic released, spring applied on front drive shaft
- **Emergency brake:**
  - Uses parking brake

**AXLES & FINAL DRIVES**

- **Drive system:**
  - Four-wheel drive
- **Front:**
  - Fixed, full-floating
- **Rear:**
  - Center pin-support, full-floating 22° total oscillation
- **Reduction gear:**
  - Spiral bevel gear
- **Differential gear:**
  - Straight bevel gear
- **Final reduction gear:**
  - Planetary gear, single reduction, oil bath

**WEIGHT SPECIFICATIONS**

- **Operating weight:**
  - kg lb
  - Straight full turn
  - Remove ROPS canopy
  - Remove steel cab
  - Remove teeth and adapter

**FUEL SYSTEM**

- **Direct injection**
- **Governor:**
  - Electronic, all-speed control
- **Lubrication system:**
  - Gear pump, force-lubrication
- **Filter:**
  - Full-flow type
- **Air cleaner:**
  - Dry type with double elements and dust evacuator, plus dust indicator

**TRANSMISSION**

- **Torque converter:**
  - Type:
    - 3-element, single-stage, single phase
- **Transmission:**
  - Full-powershift, planetary gear type
- **Travel speed/km/h MPH:**
  - Measured with 40/65-39PR tires
  - 1st 2nd 3rd 4th
  - Forward: 4.4 6.4 11.1 15.8
  - Reverse: 4.4 6.4 11.1 15.8

**STANDARD EQUIPMENT**

- **Bucket cylinder:**
  - 8.9" x 47.1"
- **Boom cylinder:**
  - 2-225 mm x 1,196 mm
- **Piston displacement:**
  - 53.6 U.S. gal

**SERVICE REEFIL CAPACITIES**

- **Cooling system:**
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- **Engine:**
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- **Torque converter and transmission:**
  - 105 ltr, 27.7 U.S.gal

**STANDARD EQUIPMENT**

- **Engine key stop**
- **Boom kickout**
- **Electronic display/monitoring system**
- **Electrically controlled transmission**
- **Tiltable steering wheel**
- **Engine key stop**
- **ROPS bracket**
- **Speedometer**
- **Service meter**
- **Ladders (right & left)**
- **Head lamp**
- **ROPS bracket**
- **Steel cab** (included front wiper, windshield wiper, power window)
- **Fan guard**
- **Counterweight (2,500kg)**
- **Fire extinguisher**
- **Tool kit**
- **Optional spare parts**
- **Heater and defrostor**
- **Seat belt**
- **Sun visor**
- **Back-up lamp**
- **Car radio**
- **Steel cab** (included front wiper, windshield wiper, power window)
- **AJSS (Advanced Joystick Steering System)**

**T I R E S**

- **Select ideal tires depending on job requirements.**
  - 40/65-39-36 PR (L-5)
  - 45/65-39-R (L-5)
  - 502 kW
  - 691 HP (SAE J1349)
  - 502 kW
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### Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>40/65-39-36(L-5) tires</th>
<th>45/65-R39(L-5) tires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tread</td>
<td>3,000 9'10&quot;</td>
<td>3,060 10'</td>
</tr>
<tr>
<td>Width over tires</td>
<td>4,040 13'3&quot;</td>
<td>4,160 13'6&quot;</td>
</tr>
<tr>
<td>A Wheelbase</td>
<td>4,800 15'9&quot;</td>
<td>4,800 15'9&quot;</td>
</tr>
<tr>
<td>B Hinge pin height,max.  height</td>
<td>5,990 19'8&quot;</td>
<td>6,035 19'10&quot;</td>
</tr>
<tr>
<td>C Hinge pin height, carry position</td>
<td>720 24&quot;</td>
<td>765 26&quot;</td>
</tr>
<tr>
<td>D Ground clearance</td>
<td>540 15&quot;</td>
<td>585 11'1&quot;</td>
</tr>
<tr>
<td>E Hitch height</td>
<td>1,530 5'</td>
<td>1,575 5'2&quot;</td>
</tr>
<tr>
<td>F Overall height, top of the stack</td>
<td>4,825 15'10&quot;</td>
<td>4,870 16&quot;</td>
</tr>
<tr>
<td>G Overall height, ROPS canopy</td>
<td>4,790 15'9&quot;</td>
<td>4,835 15'10&quot;</td>
</tr>
<tr>
<td>H. Dumping clearance, max. height and 45° dump angle</td>
<td>4,280 14'1&quot;</td>
<td>4,040 13'3&quot;</td>
</tr>
<tr>
<td>J. Reach at max. height and 45° dump angle</td>
<td>1,890 6'2&quot;</td>
<td>2,135 7&quot;</td>
</tr>
<tr>
<td>Reach at 2130 mm (7') cut edge clearance and 45° dump angle</td>
<td>2,770 9'11&quot;</td>
<td>2,985 10'7&quot;</td>
</tr>
<tr>
<td>Reach with arm horizontal and bucket level</td>
<td>3,500 11'9&quot;</td>
<td>3,840 12'7&quot;</td>
</tr>
<tr>
<td>K. Operating height (fully raised)</td>
<td>8,170 26'10&quot;</td>
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</tr>
<tr>
<td>L. Overall length (with tipseal)</td>
<td>12,160 39'11&quot;</td>
<td>12,500 41'</td>
</tr>
<tr>
<td>Leader clearance circle (bucket at carry, outside corner of bucket with tipseal)</td>
<td>19,260 63'2&quot;</td>
<td>19,230 63'1&quot;</td>
</tr>
<tr>
<td>Digging depth (with tipseal)</td>
<td>510 1'8&quot;</td>
<td>570 1'10&quot;</td>
</tr>
</tbody>
</table>

*At the end of tooth

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**Measured with 40/65-39-R5PR(L-5) tires**

<table>
<thead>
<tr>
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<th>I</th>
<th>II</th>
<th>III</th>
</tr>
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<tbody>
<tr>
<td>H. Dumping clearance, max. height and 45° dump angle</td>
<td>4,325 14'2&quot;</td>
<td>4,085 13'5&quot;</td>
<td>4,240 13'11&quot;</td>
</tr>
<tr>
<td>J. Reach at max. height and 45° dump angle</td>
<td>1,890 6'2&quot;</td>
<td>2,135 7&quot;</td>
<td>1,975 6'9&quot;</td>
</tr>
<tr>
<td>Reach at 2130 mm (7') cut edge clearance and 45° dump angle</td>
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<td>2,985 10'7&quot;</td>
<td>2,850 9'4&quot;</td>
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<td>K. Operating height (fully raised)</td>
<td>8,215 26'11&quot;</td>
<td>8,215 26'11&quot;</td>
<td>8,365 27'5&quot;</td>
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<tr>
<td>L. Overall length (with tipseal)</td>
<td>12,135 39'15&quot;</td>
<td>12,475 40'11&quot;</td>
<td>12,255 40'2&quot;</td>
</tr>
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<td>Leader clearance circle (bucket at carry, outside corner of bucket with tipseal)</td>
<td>19,260 63'2&quot;</td>
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<td>19,320 63'5&quot;</td>
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<tr>
<td>Digging depth (with tipseal)</td>
<td>125 4'5&quot;</td>
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*At the end of tooth

This specification sheet may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.