### HORSEPOWER

- **Gross**: 396 kW (537 HP) @ 1800 rpm
- **Net**: 393 kW (527 HP) @ 1800 rpm

### BUCKET CAPACITY

- **6.4–7.0 m³ (8.4–9.2 yd³)**

### MATERIALS AND SPECIFICATIONS

- **Photo may include optional equipment.**

### WEIGHT CHANGES

<table>
<thead>
<tr>
<th>Tires or attachments</th>
<th>Operating weight</th>
<th>Tipping load straight</th>
<th>Tipping load full turn</th>
<th>Width over tires</th>
<th>Ground clearance</th>
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<td>ft</td>
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<td>3540</td>
<td>11'7&quot; 1'9&quot; 0 (0) 0 (0) 0 (0)</td>
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<tr>
<td>35/65-33-36PR (L-5)</td>
<td>+1000</td>
<td>+2,205</td>
<td>+715 (+745)</td>
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<td>+1,985 (+2,065)</td>
<td>+4,370 (+4,555)</td>
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</tbody>
</table>

### STANDARD EQUIPMENT

- 2-spool valve for boom and bucket controls
- 3900 mm (12'8") boom
- Alternator, 90 A/24 V
- Auto air conditioner
- Auto shift transmission with mode select system
- Back-up alarm
- Back-up lamp
- Batteries, 200 Ah/12 V x 2
- Boom kick-out
- Bucket positioner
- Directional signal
- Emergency steering (SAE)
- Engine, Komatsu SAA6D170E-5 diesel
- EPC fingertip control levers with automatic leveler and positioner
- Floormat
- FRONT FENDER
- Hard water area arrangement
- (corrosion resister)
- Hydraulic-driven fan with reverse rotation
- Lift cylinders and bucket cylinder
- Lock-up clutch torque converter
- Main monitor panel with EMMS (Equipment Management Monitoring System)
- Radiator mask, lattice type
- Rear access stairs
- Rear defroster (electric)
- Rear under view mirror
- Rear view mirrors
- Rear window washer and wiper
- ROPS/FOPS cab
- Seat belt
- Seat, suspension type with reclining
- Service brakes, wet disc type
- Standard counterweight
- Steering wheel, tiltable
- Sun visor
- Tires (35/65-33-36PR L4 tubeless) and rims
- Transmission, 4 forward and 4 reverse
- Water separator

### OPTIONAL EQUIPMENT

- 3650 mm (12'8") boom
- 3-spool valve
- AJSS (advanced Joystick Steering System)
- AM/FM radio
- AM/FM stereo radio cassette
- Automatic greasing
- Battery disconnect switch
- Brake cooling system
- Bucket teeth (bolt-on type)
- Bucket teeth (tip type)
- Counterweight for log
- Cutting edge (bolt-on type)
- ECSS (Electrically Controlled Suspension System)
- Fire extinguisher
- KOMTRAX Plus
- Limited slip differential (F&R)
- Load meter
- Log grapple
- Optional counterweight
- Ordinary spare parts
- Power train guard
- Rear fender
- Segment edges
- Semi-auto digging system
- Tool kit

### WEBSITE

www.Komatsu.com

Printed in Japan 201301 IPSIN

CEN00209-03

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Photo may include optional equipment.
Increased Reliability

- Reliable Komatsu designed and manufactured components
- Sturdy main frame
- Maintenance-free, fully hydraulic, wet disc service and parking brakes
- Hydraulic hoses use flat face O-ring seals

Cation electrodeposition process is used to apply primer paint
- Powder coating process is used to apply main structure paint
- Sealed DT connectors for electrical connections

High Productivity & Low Fuel Consumption

- High performance SAA6D170E-5 engine
- Low fuel consumption
- Dual-mode engine power select system
- Automatic transmission with shift timing select system
- Lock-up Torque Converter
- Variable displacement piston pump & CLSS
- Increased bucket capacity
- Long wheelbase

See pages 4 and 5.

Excellent Operator Environment

- Automatic transmission with ECMV
- Low-noise designed cab
- Electronic controlled transmission lever
- Modulated clutch system
- Engine RPM set system with auto decel (Optional)
- “EPC” (Electronic Pilot Control) levers
- Pillar-less large ROPS/FOPS integrated cab
- Easy entry/exit, front-hinged door
- “AJSS” (Advanced Joystick Steering System) (Optional)

See pages 8 and 9.

Harmony with Environment

- EPA Tier 2 and EU Stage 2 emissions equivalent
- Low exterior noise
- Low fuel consumption

Easy Maintenance

- “EMMS” (Equipment Management Monitoring System)
- KDMTRAX Plus (Optional)

See page 7.

Photo may include optional equipment.

WALK-AROUND

WA600-6R WHEEL LOADER

WA600-6R

Increased Reliability

HORSEPOWER
Gross: 396 kW 530 HP @ 1800 rpm
Net: 393 kW 527 HP @ 1800 rpm

BUCKET CAPACITY
6.4–7.0 m³ 8.4–9.2 yd³

See page 6.
High Performance SAA6D170E-5 Engine
Electronic Heavy Duty Common Rail fuel injection system provides optimum combustion of fuel. This system also provides fast throttle response to match the machine’s powerful tractive effort and fast hydraulic response. This engine is EPA Tier 2 and EU Stage 2 emissions equivalent.
Net: 393 kW 527 HP
Low Fuel Consumption
The fuel consumption is reduced greatly because of the low-noise, high-torque engine and the large-capacity torque converter with maximum efficiency in the low-speed range.

Dual-mode Engine Power Select System
This wheel loader offers two selectable operating modes—E and P. The operator can adjust the machine’s performance with the selection switch.
- **E Mode:** This mode provides maximum fuel efficiency for general loading.
- **P Mode:** This mode provides maximum power output for hard digging operation or hill climb.

Automatic Transmission with Mode Select System
This operator controlled system allows the operator to select manual shifting or two levels of automatic shifting (low, and high).
Auto L mode is for fuel saving operation with the gear shift timing set at lower speeds than Auto H mode. Therefore Auto L mode keeps the engine in a relatively low rpm range for fuel conservation while yielding adequate tractive force by depressing the accelerator pedal.

Lock-up Torque Converter
The Komatsu designed lock-up torque converter provides increased production efficiency, reduced cycle times and optimum fuel savings in load & carry or hill-climb operations. This optional feature allows the operator to activate the system on/off with a switch located on the right-side control panel.

Variable Displacement Piston Pump & CLSS
New design variable displacement piston pump combined with the Closed-center Load Sensing System delivers hydraulic flow just as the job requires preventing wasted hydraulic pressure. Minimized waste loss contributes to better fuel economy.

- **New Variable Displacement Piston Pump:** The pump delivers only necessary amounts minimizing waste loss.
- **Fixed Displacement Piston Pump:** The pump delivers the maximum amount at any time and the unused flow is disposed.

Increased Bucket Capacity Matches with One Class Higher Dump Truck
The WA600 can load 60t (70 Short ton) trucks with standard boom. The WA600-3 required an optional high lift boom and 6.4m³ spade nose bucket with tooth.

Dumping Clearance: 3995 mm 13’1”
Dumping Reach: 1800 mm 5’11”
(6.4 m³ 8.4 yd³ spade nose bucket with tooth)

High Productivity and Low Fuel Consumption

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheelbase/Articulation Angle of 43˚</td>
<td></td>
</tr>
<tr>
<td>Minimum turning radius (center of outside tire)</td>
<td>7075 mm 23’3”</td>
</tr>
<tr>
<td>Maximum speed</td>
<td>1950 mm 8’9”</td>
</tr>
<tr>
<td>Maximum speed</td>
<td>4500 mm 14’9”</td>
</tr>
</tbody>
</table>

The widest tread in class and the long wheelbase provide improved machine stability in both longitudinal and lateral directions. Since the articulation angle is 43˚, the operator can work efficiently even in the tightest job sites.
Komatsu Components
Komatsu manufactures the engine, torque converter, transmission, hydraulic units, electric parts, on this wheel loader. Komatsu loaders are manufactured with an integrated production system under a strict quality control system.

High-rigidity Frames and Loader Linkage
The front and rear frames and the loader linkage have more torsional rigidity to secure resistance against increased stress due to the use of a larger bucket. Frame and loader linkage are designed to accommodate actual working loads, and simulated computer testing proves its strength.

Wet Multi-disc Brakes and Fully Hydraulic Braking System
Wet multi-disc brakes are fully sealed. Contaminants are kept out, reducing wear and maintenance. Brakes require no adjustments for wear, meaning even lower maintenance. The new parking brake is also an adjustment-free, wet multi-disc for high reliability and long life. Added reliability is designed into the braking system by the use of two independent hydraulic circuits. Provides hydraulic backup should one of the circuits fail. Fully hydraulic brakes mean no air system to bleed, or the condensation of water in the system that can lead to contamination, corrosion, and freezing.

Flat Face-to-face O-ring Seals
Flat face-to-face O-ring seals are used to securely seal hydraulic hose connections and to prevent oil leakage. In addition, buffer rings are installed to the head side of the all-hydraulic cylinders to lower the load on the rod seals and maximize the reliability.

Cation Electrodeposition Primer Paint/Powder Coating Final Paint
Cation electrodeposition paint is applied as a primer paint and powder coating is applied as topcoat to the exterior sheet metal parts. This process results in a beautiful rust-free machine, even in the most severe environments. Some external parts are made of plastic providing long life and high impact resistance.

Sealed DT Connectors
Main harnesses and controller connectors are equipped with sealed DT connectors providing high reliability, water resistance and dust resistance.

Sweeper Wing (Large Size Tire Guard)
To prevent tire damage, the WA600 provides a Sweeper Wing (Large Size Tire Guard) on both sides of bucket.

EMMS (Equipment Management Monitoring System)
Monitor is mounted in front of the operator for easy viewing, allowing the operator to easily check gauges and warning lights. Maintenance Control and Troubleshooting Functions
- Action code display function: If abnormality occurs, the monitor displays action details on the character display at the bottom center of the monitor.
- Monitor function: Controller monitors engine oil level, pressure, coolant temperature, air cleaner clogging, etc. If controller finds abnormalities, the error is displayed on LCD.
- Replacement time notice function: Monitor informs replacement time of oil and filters on LCD when replacement intervals are reached.
- Trouble data memory function: Monitor stores abnormalities for effective troubleshooting.

Modular Radiator Core System
The modular radiator core is easy to replace without removing the entire radiator assembly.

Ease of Radiator Cleaning
If the machine is operating in adverse conditions, the operator can reverse the hydraulic cooling fan from inside the cab by turning a switch on the control panel.

KOMTRAX Plus
KOMTRAX Plus is a management system for large mining equipment, which enables detailed monitoring of the fleet via satellite. Komatsu and distributors can analyze “vehicle health”, other operating conditions and provide this information to the job site, using the Internet from a remote location, on a near-real time basis. As a result, customers receive timely vehicle maintenance, reduced maintenance expenses, downtime costs and avoid mechanical trouble.
Easy Operation

Automatic Transmission with ECMV
Automatic transmission with ECMV automatically selects the proper gear speed based on travel speed, engine speed, and other travel conditions. The ECMV (Electronically Controlled Modulation Valve) system engages the clutch smoothly to prevent lags and shocks when shifting. This system provides efficient machine operation and a comfortable ride.

- **Kick-down switch**: Consider this valuable feature for added productivity. With the touch of a finger, the kick-down switch automatically downshifts from second to first when beginning the digging cycle. It automatically upshifts from first to second when the direction control lever is placed in reverse. This results in increased rim pull for better bucket penetration and reduced cycle times for higher productivity.
- **Hold switch**: Auto shift is selected and if the operator turns this switch when the lever is at the 3rd or 4th gear speed position, the transmission is fixed to that gear speed.

Electronic Controlled Transmission Lever
Easy shifting and directional changes with Komatsu two-lever electronic shifting. Change direction or shift gears with a touch of the fingers without removing the shifting hand from the steering wheel. Solid state electronics and conveniently located direction and gear shift controls make this possible. Automatic shifts in ranges two through four keep production high and manual shifting at a minimum.

Modulated Clutch System
The Modulated Clutch System controls the tractive effort with left brake pedal from 100% to 20% of the converter output torque.
- Useful for smooth speed reduction when approaching dump trucks for loading.
- Easy control of tire slippage.
- Reduction of shocks in shifting from forward to reverse.

Engine RPM Set System with Auto Decel (Optional)
Engine Low idle RPM can be easily preset using a push button switch. The system provides auto decel for better fuel consumption.

EPC (Electronic Pilot Control) Levers
The finger control EPC work equipment levers have light operating effort and short stroke facilitating easy operation. The operator’s comfort is further increased by the full large size adjustable arm rests. Combined with CLSS, this system allows the following new functions for easy and efficient operation:

- **Remote Boom Positioner with shockless stop function**: The highest and lowest position of the bucket can be set from cab to match any truck body. Once the positioner is set, the bucket is smoothly stopped at desired position with no shock.
- **Remote bucket digging angle control**: The digging bucket angle can be easily set from cab to match of ground condition.
- **Semi-auto digging system (optional)**: Bucket tilt operation can be automatically done when digging.

AJSS (Advanced Joystick Steering System) (Optional)
AJSS is a feedback steering system which has been incorporated to allow steering and forward and reverse selection to be controlled by wrist and finger control. With the feedback function added, the machine steering angle is defined exactly the same angle as the lever tilt angle.

Steering Wheel with Telescopic/Tilt Column
The operator can tilt and telescope the steering column to provide a comfortable working position.

Comfortable Operation

Low-noise Design
Noise at operator’s ear noise level : 76 dB(A)
Dynamic noise level (outside): 113 dB(A)
The large cab is mounted with Komatsu’s unique ROPS/FOPS viscous mounts. The low-noise engine, hydraulically driven fan, and hydraulic pumps are mounted with rubber cushions, and the cab sealing is improved to provide a quiet, low-vibration, dustproof pressurized, and comfortable operating environment. Also, exterior noise is lowest in this class.

Pillar-less Large Cab
A wide pillar-less flat glass provides excellent front visibility. The wiper arm covers a large area to provide great visibility even on rainy days. The cab area is the largest in its class providing maximum space for the operator.

Rear Access Stairs
For the purpose of safely boarding and exiting machine, rear access stairs with safety handrail is provided. The step width, clearance, and the step angle have been designed for safely climbing both up and down. A step light provides light for night boarding.
**ENGINE**

<table>
<thead>
<tr>
<th>Model</th>
<th>Komatsu SAA6D170E-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Turbocharged, aftercooled</td>
</tr>
<tr>
<td>Number of cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Bore x stroke</td>
<td>4.0 x 6.69 in</td>
</tr>
<tr>
<td>Piston displacement</td>
<td>23.15 ltr</td>
</tr>
<tr>
<td>Governor</td>
<td>all-speed, electronic</td>
</tr>
</tbody>
</table>

**HYDRAULIC SYSTEM**

- **Type**
  - Articulated type, full-hydraulic power steering
  - Steering angle: -43° each direction
  - Minimum turning radius at the center of outside tire: 70.75 mm / 2.793 ft

**STEERING SYSTEM**

- **Type**
  - Double-acting, piston type
  - Number of cylinders: 2
  - Bore x stroke: 115 mm x 510 mm / 4.5 x 20"

**TRANSMISSION**

- **Torque converter**
  - 3-element, single-stage, double-phase
- **Transmission**
  - Full powershift, planetary type
- **Travel speed**
  - 8.4 yd³ / 5.5 m³
  - 7.4 yd³ / 4.5 m³
  - 6.9 yd³ / 4.2 m³
  - 6.3 yd³ / 3.9 m³
  - 5.9 yd³ / 3.6 m³

**AXLES AND FINAL DRIVES**

- **Engine**
  - Type: Full-powershift, planetary type
- **Type**
  - Double-acting, piston type
- **Number of cylinders**
  - 2
- **Bore x stroke**
  - 4.5" x 20" / 115 mm x 510 mm

**BUCKET SELECTION GUIDE**

- **Bolt on segment edges**
- **Weld on segment edges**
- **Material density: kg/m³**
  - 6.3
  - 6.6
  - 7.9
  - 8.2
  - 8.4

**SERVICE REPAIR CAPACITIES**

- **Engine**
  - Coolant: 23.0 ltr / 6.3 U.S. gal
  - Oil: 37.2 ltr / 9.7 U.S. gal
  - Water: 37.7 ltr / 10.0 U.S. gal
- **Cooling system**
  - Oil: 3.3 ltr / 0.87 U.S. gal
  - Water: 3.7 ltr / 0.98 U.S. gal

**WHEEL LOADER**

- **Operating height (fully raised)**
  - 14'9" / 4.5 m
- **Reach at max. height and 45° dump angle**
  - 13'7" / 4.1 m
- **Hydraulic cycle time (rated load in bucket)**
  - Hydraulic cylinder: 3.3 sec
  - Reach with arm hydraulic cylinder: 5.4 sec

**DIMENSIONS**

- **Overall height, top of the stack**
  - 4'7" / 1.4 m
- **Spade nose Straight edge Spade nose Spade nose Straight edge**
  - 225 mm x 776 mm / 8.9 x 30.6"

- **Rated rpm**
  - 1800 rpm
- **Rated power**
  - 350 HP / 262 kW

**ENGINE**

- **Engine**
  - Model: Komatsu SAA6D170E-5
  - Displacement: 23.15 ltr
  - Bore x Stroke: 4.0 x 6.69 in
  - Piston displacement: 23.15 ltr
  - Governor: all-speed, electronic

**HYDRAULIC SYSTEM**

- **Steering system**
  - Hydraulic pump: 163 l/hr max 43.1 U.S. gal/min at rated rpm
  - Relief valve setting: 34.3 MPa / 3435 kgf/cm²

**TRANSMISSION**

- **Torque converter**
  - 3-element, single-stage, double-phase
- **Transmission**
  - Full powershift, planetary type
- **Travel speed**
  - 8.4 yd³ / 5.5 m³
  - 7.4 yd³ / 4.5 m³
  - 6.9 yd³ / 4.2 m³
  - 6.3 yd³ / 3.9 m³
  - 5.9 yd³ / 3.6 m³

**AXLES AND FINAL DRIVES**

- **Engine**
  - Type: Full-powershift, planetary type
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- **Number of cylinders**
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- **Bore x stroke**
  - 4.5" x 20" / 115 mm x 510 mm

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### HORSEPOWER

**Gross:** 396 kW  
**Net:** 393 kW

### BUCKET CAPACITY

6.4–7.0 m³ 8.4–9.2 yd³

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<td>mm</td>
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<td>+1715</td>
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<td>-170</td>
<td>-375</td>
<td>-140</td>
<td>-310 (+220)</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<td>OPT counterweight</td>
<td>+1000</td>
<td>+2,205</td>
<td>+2399</td>
<td>+1995</td>
<td>+595 (+620)</td>
<td>+1,575 (+1,640)</td>
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- 3500 mm 11’’ boom
- Alternator, 90 A/24 V
- Auto air conditioner
- Auto shift transmission with mode select system
- Back-up alarm
- Back-up lamp
- Batteries, 200 Ah/12 V x 2
- Boom kick-out
- Bucket positioner
- Directional signal
- Emergency steering (SAS)
- Engine, Komatsu SAA6D170E-5 diesel

### OPTIONAL EQUIPMENT

- 3850 mm 12’’ boom
- 3-spool valve
- AJSS (advanced joystick Steering System)
- AMFM radio
- AMFM stereo radio cassette
- Autonomous greasing
- Battery disconnect switch
- Brake cooling system

- Bucket teeth (bolt-on type)
- Bucket teeth (lip type)
- Counterweight for log
- Cutting edge (bolt-on type)
- ECSS (Electrically Controlled Suspension System)
- Fine excavator
- KOMTRAX Plus
- Limited slip differential (FGR)
- Load meter
- Log grapple
- Optional counterweight
- Ordinary spare parts
- Power train guard
- Rear fender
- Segment edges
- Semi-auto digging system
- Tool kit

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