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<tr>
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<td>+420</td>
<td>+925</td>
<td>+330</td>
<td>+730</td>
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STANDARD EQUIPMENT

- 2-spool valve for boom and bucket controls
- Alternator, 60 A
- Auto shift transmission with mode select system
- Back-up alarm
- Back-up lamp
- Batteries, 136 Ah x 2 x 12 V
- Boom kick-out
- Bucket positioner
- Counterweight
- Directional signal
- Engine, Komatsu SAA6D114E-3 diesel
- Engine shut-off system, electric
- Fender kit
- Fuel filter with water separator
- Hydraulic-driven fan with reverse rotation
- Lift cylinders and bucket cylinder
- Loader linkage with standard lift arm
- Main monitor panel with EMMMS (Equipment Management Monitoring System)
- PPC fingertip control, two levers
- Radiator mask, lattice type
- Rear defroster (electric)
- Rear view mirror
- Rear window washer and wiper
- RDPS/FOPS cab
- Seat, suspension type with reclining
- Service brakes, wet disc type
- Starting motor, 7.5 kW/24 V
- Steering wheel, tiltable, telescopic
- Sun visor
- Tires (23.5-25-16PR, L3 tubeless) and rims
- Transmission, 4 forward and 4 reverse
- Winch (3-spool valve)
- Engine pre-cleaner with extension
- Engine, Komatsu SAA6D114E-3 diesel
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- Transmission, 4 forward and 4 reverse
- Winch (3-spool valve)

OPTIONAL EQUIPMENT

- 3-spool valve
- Additional counterweight
- Air conditioner
- AM/FM radio
- AM/FM stereo radio cassette
- Auto air conditioner
- Batteries, 140 Ah x 2 x 12 V
- Bucket teeth (bolt-on type)
- Bucket teeth (tip type)
- Counterweight for log
- Cutting edge (bolt-on type)
- Deluxe suspension seat
- ECSS (Electronically Controlled Suspension System)
- Emergency steering (SAE)
- Engine pre-cleaner with extension
- High lift arm
- Joystick steering
- Limited slip differential (F&R)
- Lock-up clutch torque converter
- Log grapple
- Ordinary spare parts
- Power train guard
- Rear fender
- Tool kit
- Vandalism protection kit

HORSEPOWER

Gross: 173 kW
232 HP @ 2100 rpm
Net: 172 kW
231 HP @ 2100 rpm

BUCKET CAPACITY

3.1–4.6 m³
4.1–6.0 yd³

www.Komatsu.com

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CEN00139-04

Materials and specifications are subject to change without notice.
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 on main structure
Sealed DT connectors for electrical connections

Excellent Operator Environment

- Automatic transmission with ECMV
- Electrically controlled transmission lever
- Variable transmission cut-off system
- Telescopic/tilt steering column
- Fingertip control levers
- Low-noise designed cab
- Pillar-less large ROPS/FOPS cab-integrated
- Easy entry/exit, rear-hinged doors

See page 6.

Easy Maintenance

- “EMMS” (Equipment Management Monitoring System)

See page 7.

Easy access, gull-wing type engine side doors
Automatic Reversible Fan (optional)

Harmony with Environment

- EPA Tier 3 and EU Stage 3A emissions certified
- Low exterior noise
- Low fuel consumption

See pages 8 and 9.

High Productivity & Low Fuel Consumption

- High performance SAA6D114E-3 engine
- Low fuel consumption
- Dual-mode engine power select system
- Automatic transmission with shift timing select system
- Large-capacity torque converter
- Variable displacement piston pump & CLSS

See pages 4 and 5.

Horsepower

Gross: 173 kW 232 HP @ 2100 rpm
Net: 172 kW 231 HP @ 2100 rpm

Bucket Capacity

3.1–4.6 m³ 4.1–6.0 yd³
Maximum Dumping Clearance and Reach

The long lift arms provide high dumping clearances and maximum dumping reach. The operator can even level loads on the body of a dump truck easily and efficiently.

Dumping Clearance: 3020 mm 9’11”
Dumping Reach: 1190 mm 3’11”
(3.5 m³ 4.6 yd³ bucket with B.O.C.)
Komatsu Components
Komatsu manufactures the engine, torque converter, transmission, hydraulic units, electric parts, and even each bolt on this wheel loader. Komatsu loaders are manufactured with an integrated production system under a strict quality control system.

Wet Multi-disc Brakes and Fully Hydraulic Braking System mean lower maintenance costs and higher reliability. Wet disc brakes are fully sealed. Contaminants are kept out, reducing wear and resulting 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.

High-rigidity Frames and Loader Linkage
The front and rear frames and the loader linkage have got more torsional rigidity to secure resistance against stresses increased 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.

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 metal sheet 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.

EMMS
(Equipment Management Monitoring System)
Monitor is mounted in front of the operator for easy view, allowing the operator to easily check gauges and warning lights. A specially designed two-spoke steering wheel allows the operator to easily see the instrument panel.

Maintenance Control and Troubleshooting Functions
- Action code display function: If the loader has any troubles, the monitor displays action details on the character display at the center bottom of the monitor.
- Monitor function: Controller monitors engine oil level, pressure, coolant temperature, air cleaner clogging, etc. If controller finds abnormalities, all of these are displayed on LCD.
- Replacement time notice function: Monitor informs replacement time of oil and filters on LCD when it reaches replacement intervals.
- Trouble data memory function: Monitor stores abnormalities for effective troubleshooting.

Gull-wing Type Engine Side Doors Open Wide
The operator can open and close each gull-wing type engine side door easily with the assistance of a gas spring to perform daily service checks from the ground.

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 on a switch on the control panel.

Automatic Reversible Fan (optional)
The engine fan is driven hydraulically. It can be operated in reverse automatically. When switch is automatic position. The fan revolves in reverse for 2 minutes every 2 hours intermittently. (Default setting)
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.

- **One push power-up function:** The kick-down switch also functions as a power-up switch in first gear. The first time the kick-down switch is depressed, it functions as a kick-down switch and gear speed is reduced. When the machine is in E (operation mode and first gear), pressing the kick-down switch a second time changes the operation mode to P, allowing increased power for heavy digging operation. The operation mode returns to E when machine gear speed changes or direction changes to reverse.

- **Hold switch:** Auto shift is selected and if the operator turns on this switch when the lever is at the 3rd or 4th gear speed position, the transmission is fixed to that gear speed.

Electronically 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.

Variable Transmission Cut-off System

The operator can continuously adjust the transmission cut-off pressure desired for the left brake pedal using switch located on the right-side control panel. The operator can improve the working performance by setting the cut-off pressure properly depending on working condition.

- **High cut-off pressure for digging operations.**
- **Low cut-off pressure for truck-loading operations.**

Fingertip Work Equipment Control Levers with Large Size Arm Rest

New PPC control levers are used for the work equipment. The operator can easily operate the work equipment with fingertip control, reducing operator fatigue and increasing controllability. The PPC control lever column can be slid forward or rearward and the large size arm rest can be adjusted up or down to provide the operator with a variety of comfortable operating positions.

Telescopic/Tilt Steering 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: 74 dB(A)
Dynamic noise level (outside): 112 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, 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. Increased seat reclining and slide adjustment to backward by introducing front mounted air conditioner unit.

Rear-hinged Full Open Cab Doors

The cab door hinges are installed to the rear side of the cab providing a large opening angle for the operator to enter and exit. The steps are designed like a staircase, so that the operator can get on and off the cab easily.

Photo may include optional equipment.
Specifications

Engine
- Model: Komatsu SAA6D114E-3
- Type: Water-cooled, 4-cylinder, turbocharged, aftercooled
- Number of cylinders: 6
- Bore x stroke: 114 mm x 135 mm (4.49" x 5.32")
- Piston displacement: 8.27 ltr 505 in³
- Governor: Full-speed, electronic
- Rated rpm: 2100 rpm
- Fan drive method for radiator cooling: Hydraulic
- Fuel system: Direct injection
- Lubrication system: Gear pump, force-lubrication
- Air filter: Full-flow type
- Oil cleaner: Dry type with double elements and dust evacuator, plus dust indicator

Transmission
- Torque converter: 3-element, single-stage, single-pulse
- Transmission: Automatic full-powershift, countershaft type
- Gear ratio: Measured with 23.5-25 tires

Hydraulic System
- Steering system: Hydraulic pump
- Cylinder: 1-160 mm x 535 mm (3.9" x 21.1")
- Bucket: 75 mm x 442 mm (3.0" x 17.4")

Axles and Final Drives
- Drive system: Four-wheel drive
- Type: Full, semi-floating
- Rear: Center-pin support, semi-floating, 18° total oscillation
- Reduction gear: Spur bevel gear
- Differential gear: Conventional type
- Final reduction gear: Planetary gear, single reduction

Brakes
- Service brakes: Hydraulically actuated, wet disc brakes actuate on four wheels
- Parking brake: Wet disc brake
- Emergency brake: Parking brake is commonly used

Bucket Selection Guide
- Material density: kg/m³
- Weight capacity: 2320 kg 5120 lb
- Dipping depth: 1800 mm 70.9"
- Static tipping load: 3017 kg 6636 lb
- Operating weight: 3060 kg 6771 lb

EPA Tier 3 and EU Stage 3A emissions certified.
### HORSEPOWER

- **Gross:** 173 kW (232 HP @ 2100 rpm)
- **Net:** 172 kW (231 HP @ 2100 rpm)

### BUCKET CAPACITY

- 3.1–4.6 m³ (4.1–6.0 yd³)

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- Bucket teeth (tip type)
- Counterweight for log
- Cutting edge (bolt-on type)
- Deluxe suspension seat
- EC3.5S (Electrically Controlled Suspension System)
- Emergency steering (SAE)
- Engine pre-cleaner with extension
- High lift arm
- Hydraulic steering
- Limited slip differential (F&R)
- Lock-up clutch torque converter
- Log grapple
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