WEIGHT CHANGES

<table>
<thead>
<tr>
<th></th>
<th>Operating weight</th>
<th>Tipping load</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Straight</td>
<td>Full turn</td>
</tr>
<tr>
<td>Remove ROPS canopy</td>
<td>-1385 kg</td>
<td>-1220 kg</td>
</tr>
<tr>
<td></td>
<td>-2,055 lb</td>
<td>-2,690 lb</td>
</tr>
<tr>
<td>Remove steel cab</td>
<td>-420 kg</td>
<td>-335 kg</td>
</tr>
<tr>
<td></td>
<td>-950 lb</td>
<td>-740 lb</td>
</tr>
</tbody>
</table>

FLYWHEEL HORSEPOWER
638 kW @ 2050 rpm
BUCKET CAPACITY
11.5–13.0 m³ / 15.0-17.0 yd³

STANDARD EQUIPMENT

- 2-spool valve for boom and bucket controls
- Alternator, 90 A/24 V
- Air conditioner
- Automatic transmission F3 / R3
- Back-up alarm
- Back-up lamp
- Batteries, 160 Ah/12 V x 4
- Boom kick-out
- Bucket positioner
- Counterweight
- Directional signal
- Emergency brake
- Engine, Komatsu SAA12V140E-3 diesel
- Floormat
- Front working lights (2)
- Hard water area arrangement (corrosion resistant)
- Head lights (2)
- Lift cylinders and bucket cylinder
- Radiator mask, lattice type
- Rear access stairs
- Rear defroster (electric)
- Rearview mirrors
- Rear window washer and wiper
- Rear working lights (2)
- Room mirror
- ROPS/FOPS canopy
- Seat belt
- Seat, suspension type with reclining
- Service brakes, wet disc type
- Side working lights (2)
- Standard boom
- Starting motor, 7.5 kW/24 V x 2
- Steel cab included front wiper, windshield washer and power window
- Steering wheel, tiltable
- Sun visor
- Tires (456/55R58PR L5 tubeless) and rims
- Water separator

OPTIONAL EQUIPMENT

- AJSS (advanced Joystick Steering System)
- AM/FM radio
- AM/FM stereo radio cassette
- Ashtray and cigarette lighter
- Automatic greasing
- Bucket corner teeth
- Bucket teeth (weld-on/flip type)
- Counterweight for high lift boom
- Emergency steering (SAE)
- Engine pre-lube system
- Fast fill fuel system
- Fenders
- Fire extinguisher
- Heater and defroster
- High lift boom
- Mesh chain
- Ordinary spare parts
- Power train guard
- Rear under view mirror
- Sweeper wing
- Tires (456/55R58PR L5 tubeless)
- Tool kit
- Under view mirror
- Vandalism protection
- VHMS (Vehicle Health Monitoring System)
- Yellow rotating lamp

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Printed in Japan 200703 IPSIN (10)

Photo may include optional equipment.
Reliability
- Reliable Komatsu designed and manufactured components
- Sturdy main frame
- Engine pre-lube system (Optional)
- Maintenance-free, fully hydraulic, wet disc brakes
See page 6.

Easy Maintenance
- Simple checks
- "VHMS" (Vehicle Health Monitoring System) (Optional)
See page 7.

Hydraulic hoses use flat face O-ring seals
Cathion electrodeposition process is used to apply primer paint
Powder coating process is used to apply main structure paint
Sealed DT connectors for electrical connections

WALK-AROUND

High Reliability
- Reliable Komatsu designed and manufactured components
- Sturdy main frame
- Engine pre-lube system (Optional)
- Maintenance-free, fully hydraulic, wet disc brakes

Excellent Operator Environment
- Automatic transmission with ECMV
- Tilted steering column
- "AJSS" (Advanced Joystick Steering System) (Optional)
- Roomy, quiet cab with power windows
- Low vibration & noise
- Pillar-less large cab with ROPS/FOPS canopy
- Comfortable operator’s seat
See pages 8 and 9.

High Productivity
- High performance SAA12V140E-3 engine
- Low fuel consumption
- Dual-mode active working power select system
- Large dumping clearance
See pages 4 and 5.

Harmony with Environment
- EPA Tier 2 emission certified
- Low fuel consumption

Building on the technology and expertise Komatsu has accumulated since its establishment in 1921, GALEO presents customers worldwide with a strong, distinctive image of technological innovation and exceptional value. The GALEO brand will be employed for Komatsu’s full lineup of advanced construction and mining equipment. Designed with high productivity, operator comfort and environmental considerations in mind, the machines in this line reflect Komatsu’s commitment to contributing to the creation of a better world.

Genuine Answer for Land and Environment Optimization

FLYWHEEL HORSEPOWER
638 kW 856 HP @ 2050 rpm
BUCKET CAPACITY
11.5–13.0 m³ 15.0-17.0 yd³

Photo may include optional equipment.
High Performance SAA12V140E-3 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 reactive effort and fast hydraulic response.

Net: 638 kW 856 HP

Low Emission Engine
This engine is EPA Tier 2 emission certified without sacrificing power or machine productivity.

Low Fuel Consumption
Low fuel consumption is achieved because of the low-noise, high-torque engine and the large-capacity torque converter with maximum efficiency in the low-speed range.

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

Bucket capacities
13.0m³ 17Cu.yd

High Breakout Force
Komatsu wheel loaders have high-tensile steel Z-bar loader linkages for maximum rigidity and maximum breakout force. Sealed loader linkage pins extend greasing intervals.

Breakout force: 67900 kg 149,690 lb
13.0 m³ 17.0 yd³ Excavating bucket (spade nose) with tipseath

Dual-Mode Active Working System
The machine can be equipped with two mode active working system. This system provides the most efficient hydraulic flow for your operation.

● Powerful loading mode:
Hydraulic flow towards the work equipment can be increased and reduced as and when required.

● Normal loading mode:
All hydraulic flow is transferred directly to the work equipment.

Large Dumping Clearance
The WA900-3 was designed with ample dumping clearance for dump truck matching.

Excellent Stability
The WA900-3 has the widest tread in its class 3,350mm (11’10”) and a long 5,450mm (17’11”) wheelbase, for maximum machine stability.

Static tipping load
(with 45/65-45-58 PR (L-5) tires / bucket 13.0 m³ 17.0 yd³)
Straight: 65670 kg 144,780 lb
40˚ full turn: 57430 kg 126,610 lb
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.

Engine pre-lube System (optional)
Durability of the engine is achieved by raising the engine oil pressure before starting the engine. When the operator turns the key, the pre-lubrication pump sends oil from the engine oil pan to the engine oil filter and raises the pressure of that oil to the set pressure. Then, the starting motor rotates to start the engine.

Maintenance-Free Braking System
Service brakes employ two hydraulically-actuated independent circuits which 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.

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 reliability.

Cathion Electrodeposition Primer Paint/ Powder Coating Final Paint
Cathion 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 durable paint finish, 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.

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. Frame and loader linkage are designed to accommodate actual working loads, and simulated computer testing proves its strength.

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

Large Side Door
Right side door is easy to open and provides accessibility for maintenance.

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

VHMS (Vehicle Health Monitoring System) (optional)
VHMS is a management system for large equipment for use in mining, which enables detailed monitoring of fleet via satellite communications. Komatsu and distributors can analyze “vehicle health” and other operating conditions and provide the information to job site using the internet from a remote location on a near-real time basis.
OPERATOR ENVIRONMENT

Easy Operation

Automatic Transmission with Electronically Controlled Modulation Valve (ECMV)
Automatic transmission with ECMV automatically selects the proper gear speed based on travel speed, engine speed, and other travel conditions. The ECMV 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:
  This valuable feature for increases 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 on this switch when the lever is at the 3rd 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 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.

Remote Boom Positioner
The highest and lowest position of the bucket can be set from the cab to match any truck body. Once the positioner is set, the bucket is smoothly stopped at desired position with no shock.

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, the machine steering angle is exactly the same angle as the lever tilt angle.

Tiltable Steering Column & One-Glance Monitors
The steering column can be easily tilt-adjusted to the most comfortable position with one lever.

Variable Transmission Cut-off System
The operator can set the transmission cut-off pressure desired for the left brake pedal using the 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.

Comfortable Operation

Roomy, Quiet Cab With Power Windows
The cab is large, with a comfortably spacious interior and power windows. Also, a wide viewing angle is guaranteed because the cab is pillar-less. By adopting a high-capacity air conditioner, Komatsu ensures operator comfort, no matter the exterior conditions. Other features designed with operators in mind include 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.

Pillar-less Large Cab with ROPS / FOPS Canopy
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.

Comfortable Operator’s Seat
The operator’s seat has a reclining/air suspension design with headrest to support the operator comfortably during long operation. Also, it is easy to adjust seat height with air suspension.

Lunchbox storage space

Rear heated glass provides clear view even in freezing or condensation conditions.
**SPECIFICATIONS**

**ENGINE**

<table>
<thead>
<tr>
<th>Model</th>
<th>Komatsu SAA12V14DE-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Turbocharged, air-to-air aftercooled</td>
</tr>
<tr>
<td>Number of cylinders</td>
<td>12</td>
</tr>
<tr>
<td>Bore x stroke</td>
<td>140 mm x 165 mm 5.51&quot; x 6.50&quot;</td>
</tr>
<tr>
<td>Piston displacement</td>
<td>30.48 ltr (1860 in³)</td>
</tr>
<tr>
<td>Governor</td>
<td>All-speed, electronic</td>
</tr>
<tr>
<td>Flywheel horsepower</td>
<td>SAE J1995</td>
</tr>
<tr>
<td>ISO 9249/SAE J1349 636 kW (856 HP)</td>
<td></td>
</tr>
<tr>
<td>Rated rpm</td>
<td>2050 rpm</td>
</tr>
</tbody>
</table>

**FUEL SYSTEM**

<table>
<thead>
<tr>
<th>Method</th>
<th>Direct injection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter</td>
<td>Full-flow and bypass combined</td>
</tr>
<tr>
<td>Air cleaner</td>
<td>Dry type with automatic dust ejector and pre-cleaner, suction with vacuum cleaner</td>
</tr>
</tbody>
</table>

**HYDRAULIC SYSTEM**

**Steering system:**

<table>
<thead>
<tr>
<th>Hydraulic pump type</th>
<th>Double-acting, piston type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cylinders</td>
<td>2</td>
</tr>
<tr>
<td>Bore x stroke</td>
<td>160 mm x 503 mm 6.3&quot; x 19.8&quot;</td>
</tr>
</tbody>
</table>

**Loaders:**

<table>
<thead>
<tr>
<th>Hydraulic pump type</th>
<th>Double-acting, piston type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cylinders</td>
<td>4</td>
</tr>
<tr>
<td>Bore x stroke</td>
<td>109.6 mm 4.3&quot;</td>
</tr>
</tbody>
</table>

**Relief valve:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Spool type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control positions</td>
<td>Boo, hold, lower, and float</td>
</tr>
<tr>
<td>Hydraulic cycle time</td>
<td>(rated load in bucket)</td>
</tr>
<tr>
<td>Boom</td>
<td>2</td>
</tr>
<tr>
<td>Bucket cylinder</td>
<td>1</td>
</tr>
<tr>
<td>Control valve</td>
<td>1</td>
</tr>
<tr>
<td>Spool type</td>
<td>1</td>
</tr>
</tbody>
</table>

**ROPS / FOPS & CAB**

Structure complies with ISO 3471 ROPS (Roll-Over Protective Structure) standards, as well as ISO 3449 FOPS (Falling Object Protective Structure) standards. The cab is mounted on rubber pads and is well insulated.

**AXLES AND FINAL DRIVES**

<table>
<thead>
<tr>
<th>Drive system</th>
<th>Four-wheel drive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front</td>
<td>Fixed, full-floating</td>
</tr>
<tr>
<td>Rear</td>
<td>Center-pin support, full-floating, 22&quot; total oscillation</td>
</tr>
<tr>
<td>Reduction gear</td>
<td>Spiral bevel gear</td>
</tr>
<tr>
<td>Differential gear</td>
<td>Straight bevel gear</td>
</tr>
<tr>
<td>Final reduction gear</td>
<td>Planetary gear, single reduction, oil bath</td>
</tr>
</tbody>
</table>

**BRAKES**

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

**STEERING SYSTEM**

<table>
<thead>
<tr>
<th>Type</th>
<th>Articulated type, full-hydraulic power steering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum turning radius at the center of outside tire</td>
<td>9200 mm 320&quot;</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

- **WA900-3E0 WHEEL LOADER**

**Standard Boom**

<table>
<thead>
<tr>
<th>Standard Boom</th>
<th>High Lift Boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>3350 mm 13&quot;</td>
</tr>
<tr>
<td>Width over tires</td>
<td>4065 mm 16&quot;</td>
</tr>
<tr>
<td>B Hinge pin height, max. height</td>
<td>1440 mm 57&quot;</td>
</tr>
<tr>
<td>C Hinge pin height, carry position</td>
<td>900 mm 36&quot;</td>
</tr>
<tr>
<td>D Ground clearance</td>
<td>555 mm 22&quot;</td>
</tr>
<tr>
<td>E Hitch height</td>
<td>1390 mm 55&quot;</td>
</tr>
<tr>
<td>Overall height, top of the stack</td>
<td>5130 mm 16'7&quot;</td>
</tr>
<tr>
<td>Overall height, ROPS cab</td>
<td>5275 mm 17'4&quot;</td>
</tr>
</tbody>
</table>

**BUCKET SELECTION GUIDE**

<table>
<thead>
<tr>
<th>Rock Bucket</th>
<th>(spade nose)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>236,340 lb</td>
</tr>
<tr>
<td>Capacity</td>
<td>666 kN 15.0</td>
</tr>
<tr>
<td>Digging depth</td>
<td>191.5 U.S. gal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Excavating Bucket</th>
<th>(spade nose)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>236,670 lb</td>
</tr>
<tr>
<td>Capacity</td>
<td>703 kN 17.0</td>
</tr>
<tr>
<td>Reach at max. height and 45° dump angle</td>
<td>2460 mm 98&quot;</td>
</tr>
</tbody>
</table>

**HYDRAULIC CYCLE TIME**

- **Rated load in bucket**

<table>
<thead>
<tr>
<th>Type</th>
<th>11.5 MPa 175 psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>4.0 s</td>
</tr>
<tr>
<td>2nd</td>
<td>4.0 s</td>
</tr>
<tr>
<td>3rd</td>
<td>4.0 s</td>
</tr>
</tbody>
</table>

**COOLING SYSTEM**

- **Type** | Full-flow and bypass combined |
- **Relief valve setting** | 17° |

**SERVICE REFILL CAPACITIES**

- **Flywheel horsepower** | 3190 kw 4300 hp |

**BRAKES**

- **Flywheel horsepower** | 3190 kw 4300 hp |
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**BUCKET SELECTION GUIDE**

<table>
<thead>
<tr>
<th>Type</th>
<th>Water-cooled, 4-cylinder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cylinders</td>
<td>12</td>
</tr>
<tr>
<td>Bore x stroke</td>
<td>140 mm x 165 mm 5.51&quot; x 6.50&quot;</td>
</tr>
</tbody>
</table>

**FLYWHEEL HP**

- **Type** | Double-acting, piston type |
- **Number of cylinders** | 2 |
- **Bore x stroke** | 160 mm x 503 mm 6.3" x 19.8" |

**LOBULAR HYDRAULIC CYCLE TIME**

- **Rated load in bucket**

**COOLING SYSTEM**

- **Capacity** | 3190 kw 4300 hp |
- **Relief valve setting** | 17° |

**BRAKES**

- **Flywheel horsepower** | 3190 kw 4300 hp |
- **Flywheel horsepower** | 3190 kw 4300 hp |
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**LOBULAR HYDRAULIC CYCLE TIME**

- **Rated load in bucket**

**COOLING SYSTEM**

- **Capacity** | 3190 kw 4300 hp |
- **Relief valve setting** | 17° |