# WA800-3E0

**FLYWHEEL HORSEPOWER**
603 kW (808 HP) @ 2000 rpm

**BUCKET CAPACITY**
10.0–14.0 m³ (13.1–18.3 yd³)

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### WEIGHT CHANGES

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### 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 resistor)
- Head lights (2)
- Lift cylinders and bucket cylinder
- Radiator mask, lattice type
- Rear access doors
- 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 (45/65-45-46PR L5 tubeless) and rims
- Water separator

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### 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
- Short boom
- Sweeper wing
- Tires (45/65-45-50PR L5 tubeless)
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- Tool kit
- Under view mirror
- Vandalism protection
- VHMS (Vehicle Health Monitoring System)
- Yellow rotating lamp

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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

Excellent Operator Environment
- Automatic transmission with ECMV
- Tiltable 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.

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
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 inductive effort and fast hydraulic response.

Net: 603 kW 808 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 11.0m³ 14.4cu.yd

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 WA800-3 was designed with ample dumping clearance for dump truck matching.

Excellent Stability
The WA800-3 has the widest tread in its class 3,350mm (11) and a long 5,450mm (17’11”) wheelbase, for maximum machine stability.

Static tipping load
(With 45/65-45-46 PR (L-5) tires / bucket 11.0 m³ 14.4 yd³)

Straight: 61090 kg 134,680 lb
40˚ full turn: 53740 kg 118,480 lb

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 69000 kg 152,120 lb
11.0 m³ 14.4 yd³ Excavating bucket (spade nose) with tippers
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-lub 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.

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.

Fuel Tank Cap with Mud Cover and Large Tool Box

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

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.
**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.

**Steering Wheel Type**

**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.

**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.**

**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.

**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.
### HYDRAULIC SYSTEM

**Piston pump Capacity**
- 307 fl/min 81 U.S. gal/min at rated rpm

**Relief valve setting**
- 31.4 MPa 320 kgf/cm² 4,550 psi

**Steering system**

**Controller:**
- Double-acting, piston type

**Bucket:**
- 260 mm x 1368 mm 10.2" x 53.9"
- ³-300 mm x 906 mm 11.8" x 35.7"

**Control valve:**
- Spool type

**Control positions:**
- Raise, hold, lower, and float
- Till-back, hold, and dump

**Hydraulic cycle time** (rated load in bucket)
- 1.12 sec

**Dump**
- 2.0 sec
- Lower (Empty)
- 4.8 sec

### SERVICE REFFIL CAPACITIES

**Cooling system**
- 337 fl 89 U.S. gal

**Fuel tank**
- 1,555 fl 418 U.S. gal

**Engine**
- 1,300 fl 34.3 U.S. gal

**Hydraulic system**
- 725 fl 191.5 U.S. gal

**Axle (each front and rear)**
- 360 fl 95.1 U.S. gal

**Torque converter and transmission**
- 140 fl 37.0 U.S. gal

### SPECIFICATIONS

- **Operating weight with teeth:**
  - 115,300 lb 60,590 kg
  - 105,000 lb 47,700 kg
  - 95,200 lb 43,170 kg
  - 92,200 lb 41,840 kg

- **Operating weight without teeth:**
  - 110,800 lb 50,230 kg
  - 100,500 lb 45,640 kg
  - 90,700 lb 41,120 kg
  - 87,700 lb 39,770 kg

### TRANSMISSION

**Torque converter:**
- 3-element, single-stage, single-phase

**Type:**
- Full-powershift, planetary type

**Speeds:**
- 1st: 4.75 mph
- 2nd: 6.4 mph
- 3rd: 9.6 mph

### AXLES AND FINAL DRIVES

**Drive system:**
- Four-wheel drive

**Front:**
- Fixed, full-floating

**Rear:**
- Center-pin support, full-floating

**Reduction gear:**
- 22" total oscillation

**Differential gear:**
- Spiral bevel gear

**Final reduction gear:**
- Planetary gear, single reduction, oil bath

### 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

- Type: Articulated type, full-power hydraulic steering

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

**Minimum turning radius at the center of outside tire:**
- 9200 mm 30'2"