

KOMATSU®

WA320-8

Tier 4 Final Engine

WHEEL LOADER

WA320



Photos may include optional equipment.

NET HORSEPOWER

165 HP @ 2100 rpm
123 kW @ 2100 rpm

OPERATING WEIGHT

34,128 – 34,987 lb
15480 – 15870 kg

BUCKET CAPACITY

3.0 – 4.2 yd³
2.3 – 3.2 m³

WALK-AROUND

WA320-8



Photos may include optional equipment.

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15480 – 15870 kg

BUCKET CAPACITY

3.0 – 4.2 yd³
2.3 – 3.2 m³



HIGH PRODUCTION WITH LOW FUEL CONSUMPTION

Proven, Fourth Generation Hydrostatic Transmission:

- Quick Acceleration
- Dynamic Braking
- Variable Speed Traction Control
- Creeping Mode

Komatsu SmartLoader Logic helps reduce fuel consumption with no decrease in production.

A powerful **Komatsu SAA6D107E-3 engine** provides a net output of 123 kW **165 HP** with up to 3% improved fuel consumption. This engine is EPA Tier 4 Final emissions certified.

Variable Geometry Turbocharger (VGT) is hydraulically actuated to provide optimum air flow under all speed and load conditions. This Tier 4 Final version has improved performance.

Diesel Particulate Filter (DPF) and Selective Catalytic Reduction (SCR) systems reduce particulate matter and NOx while providing automatic regeneration that does not interfere with daily operation.

Ample cooling capacity

- Auto-reversing fan is standard
- Wider core coolers

Fluid neutral or better

Combined fuel and DEF consumption is equal to or less than the WA320-7 fuel consumption.

Spacious cab provides the operator with improved comfort and visibility.

New high resolution monitor panel:

- Enhanced and intuitive on-board diagnostics
- Integrated with KOMTRAX Level 5
- Integrated with Komatsu Tier 4 Final technology

Rearview monitoring system is standard.

New high capacity air suspension seat with heat is standard.



Energy saving guidance:

- Six operator guiding messages
- Enhanced ecology gauge

Komatsu auto idle shutdown helps reduce idle time and operating costs.

Remote boom positioner can set kickout.

Versatile Parallel Z-bar (PZ) linkage for parallel lift.

Variable displacement piston pumps with Closed-Center Load Sensing System (CLSS) help reduce fuel consumption.

KOMTRAX® equipped machines send location, SMR and operation maps to a secure website or smart phone via wireless technology. Machines also relay error codes, cautions, maintenance items, fuel & Diesel Exhaust Fluid (DEF) levels, and much more.

Operator identification system tracks machine operation for up to 100 operators.

PERFORMANCE FEATURES

KOMATSU NEW ENGINE TECHNOLOGIES

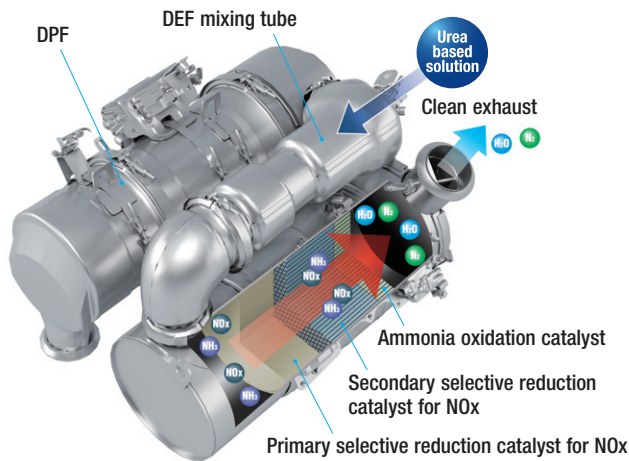
New Tier 4 Final Engine

The Komatsu SAA6D107E-3 engine is EPA Tier 4 Final emissions certified, reduces fuel consumption, and provides exceptional performance. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces nitrogen oxides (NOx) by more than 80% compared to Tier 4 interim levels.

Technologies Applied to New Engine

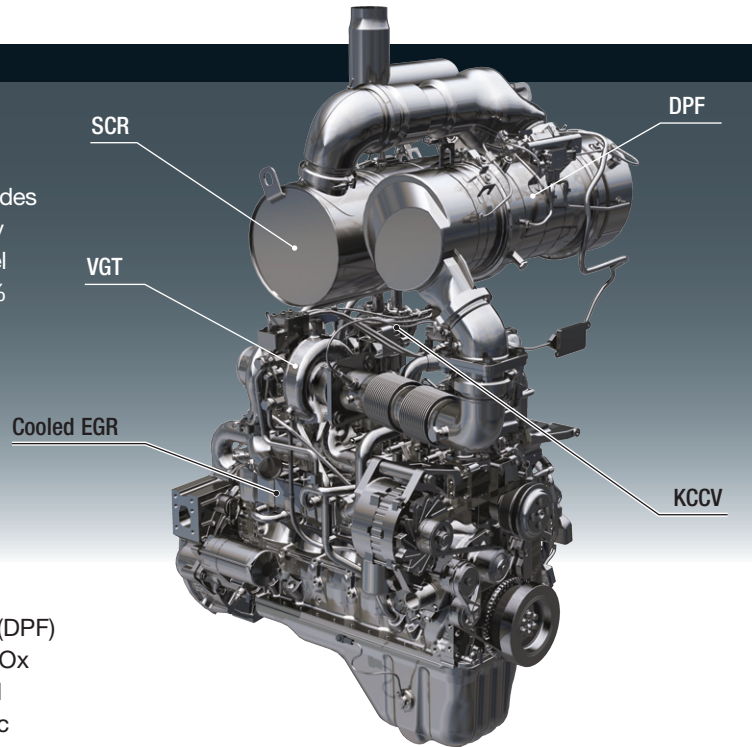
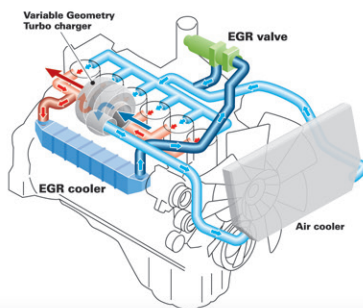
Heavy-duty After Treatment System

This new system combines a Diesel Particulate Filter (DPF) and Selective Catalytic Reduction (SCR). The SCR NOx reduction system injects the precise amount of Diesel Exhaust Fluid (DEF) to break down NOx into non-toxic water vapor (H₂O) and nitrogen gas (N₂).



Heavy-duty Cooled Exhaust Gas Recirculation (EGR) System

The system recirculates a portion of exhaust gas into the air intake and lowers combustion temperatures, thereby reducing NOx emissions. EGR gas flow is lower for Tier 4 Final with the addition of SCR technology. The system dramatically reduces NOx, while helping cut fuel consumption below Tier 4 Interim levels.

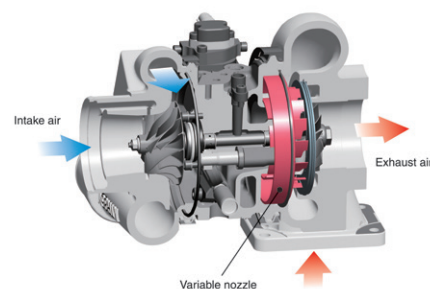


Advanced Electronic Control System

An improved electronic control system more effectively manages engine parameters such as airflow rate, EGR gas flow rate, fuel injection parameters, and after treatment function. The control system also provides enhanced diagnostics through the monitor panel. Additionally, managing information via KOMTRAX helps customers track required maintenance.

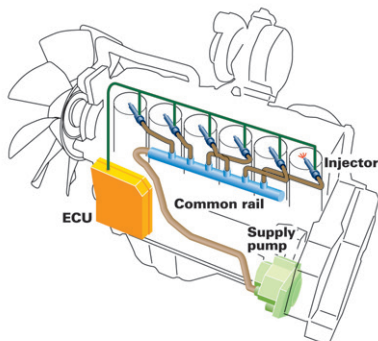
Variable Geometry Turbocharger (VGT) system

The VGT features proven Komatsu-designed hydraulic technology for robust and accurate control under all speed and load conditions for optimal engine performance. The VGT also provides precise exhaust temperature control for efficient DPF regeneration. The Tier 4 Final version has a smaller impeller for improved performance.



Heavy-Duty High-Pressure Common Rail (HPCR) fuel injection system

The system is specifically designed to achieve the optimal injection of fuel for near-complete combustion, which helps reduce Particulate Matter (PM) emissions.



Komatsu SmartLoader Logic

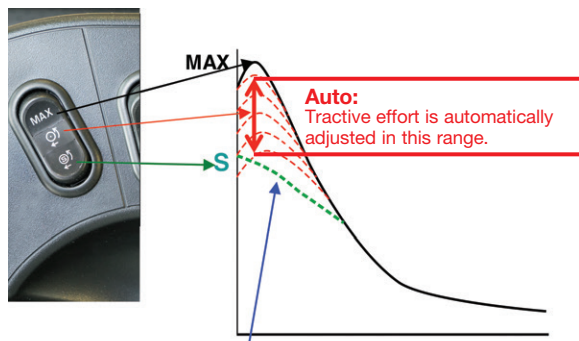
The WA320-8 features Komatsu SmartLoader Logic, which controls engine torque to match machine demands. For example, engine torque needs are higher for digging in V-shape loading, but lower when driving with an empty bucket. This system optimizes the engine torque for all applications to minimize fuel consumption. Komatsu SmartLoader Logic functions automatically and doesn't interfere with operation, saving fuel without decreasing production.

Hydrostatic Transmission (HST)

The HST provides quick travel response and aggressive drive into the pile. Full auto-shifting eliminates any gear shifting and kick-down operation to allow the operator to concentrate on the digging and loading. The HST also acts as a dynamic brake to slow the loader. This dramatically extends the life of the wet disc brakes.

Variable Traction Control System

The variable traction control system is designed to adjust the traction control for each working condition. S-mode reduces tire spin in slippery or snowy conditions. Auto-mode automatically optimizes the tractive effort for various working conditions. Max traction provides the full, 100%, tractive effort.



S-mode:
Improve tire slip ratio on snowy or slippery road condition

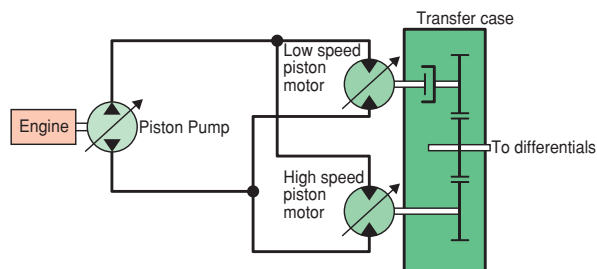
Creep Mode

Creep mode limits the travel speed in 1st speed range, while still allowing for full hydraulic flow.



Closed-Center Load Sensing System (CLSS)

The one-pump, two-motor system utilizes a Closed-Center Load Sensing System (CLSS) pump. This system minimizes hydraulic loss for better fuel economy by delivering only as much flow as the job requires.



Komatsu Auto Idle Shutdown

In order to reduce unwanted idle time, Komatsu offers Komatsu auto idle shutdown. This function will shut the engine off and apply the parking brake and hydraulic lock after a preset idle time limit. This time limit can be set by the operator or service technician and may range from three to 60 minutes. It can also be deactivated by the operator.



OPERATOR ENVIRONMENT



WA320-8

New Operator Seat

A new standard, heated, air-suspension seat provides enhanced support on rough roads and dampens machine vibrations, providing a more comfortable ride for the operator. The angle of the armrest is fully adjustable for optimum operator comfort. A secondary F-N-R switch is incorporated into the standard multi-function mono lever.



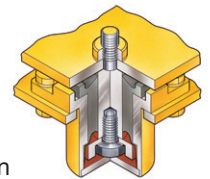
Tiltable / Telescopic Steering Wheel

The operator can tilt and telescope the steering wheel to allow maximum comfort and control. The two-spoke steering wheel allows maximum visibility of the monitor panel and the forward work environment.



Low Noise Design

Operator's ear noise level: 68 dB(A)
Dynamic noise level (outside): 105 dB(A)



The large ROPS/FOPS cab is mounted with Komatsu's unique 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, comfortable operating environment.

Increased Cab Storage Area

The WA320-8 cab features a storage box on each side of the cab to allow the operator to store items such as a beverage or lunch.





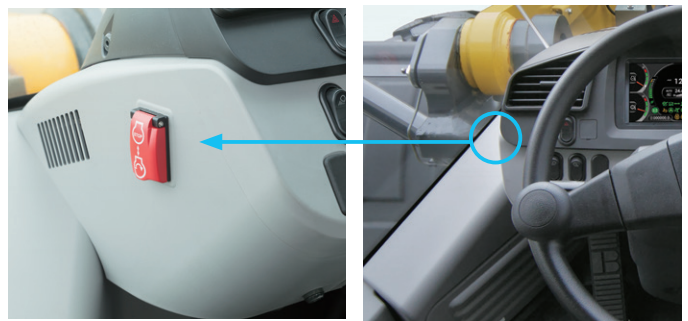
Standard Rear View Monitoring System

The dedicated full-color monitor on the right side of the cab provides the operator with a rear view from the machine. This monitor can be always on or only on when the loader shifts into reverse. Guidelines provide the operator with visual cues for the width of the loader.



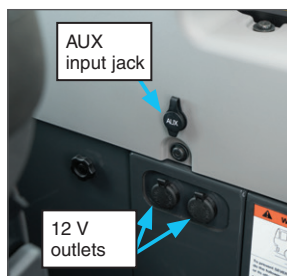
Engine Shutdown Secondary Switch

The engine stop switch enables machine shutdown when accessing the key switch is not possible.



Auxiliary Input (MP3 Jack) 12 V Outlets

An Aux input for audio devices is standard as well as two 12 volt outlets. These are all located on the rear wall of the cab.



WORKING ENVIRONMENT



Easy Entry and Exit

The WA320-8 has an inclined ladder with wide steps and well-placed hand holds to ease entry and exit from the cab. The door latch can be reached from ground level to ease opening and closing the door.

Electronically Controlled Suspension System

The standard Electronically Controlled Suspension System or ride control system uses an accumulator, which absorbs some of the shock in the boom arm, giving the operator a much smoother ride. This reduces operator fatigue and reduces material spillage during load and carry operations. Ride control is speed sensitive and the activation speed can be adjusted in the monitor panel.

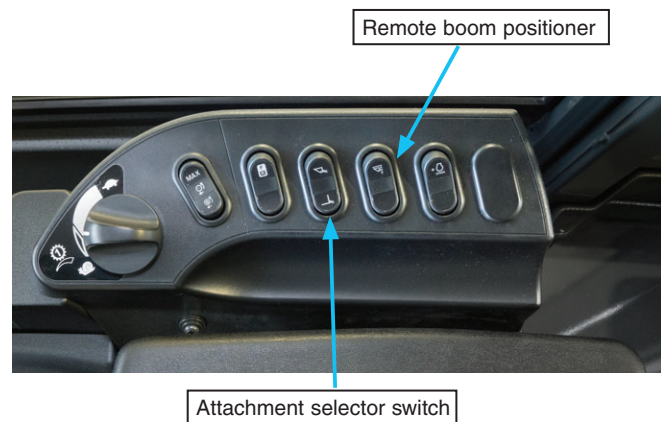
Multi-Function Mono Lever

The multi-function mono lever with EPC control for 3rd spool is standard. It includes a forward-neutral-reverse switch for quick and easy travel. Third spool attachments can be set to continual or proportional control via the monitor panel allowing the operator to control the boom, bucket and attachment all with a single lever.



Remote Boom Positioner

The operator can set the upper boom limit from the cab.



Attachment Selector Switch

Coupler equipped machines which use buckets and forks require a different flat level setting when switching between attachments. The attachment selector switch found in coupler equipped machines tells the loader which flat level to use.

INFORMATION & COMMUNICATION TECHNOLOGY

New High Resolution LCD Monitor Panel

The new 7" color LCD monitor panel displays operational information, ecology guidance and maintenance records. Information such as traction mode, coolant temp, oil and fuel levels are easy to read to keep the operator informed of the machine's settings and conditions.

Machine monitor

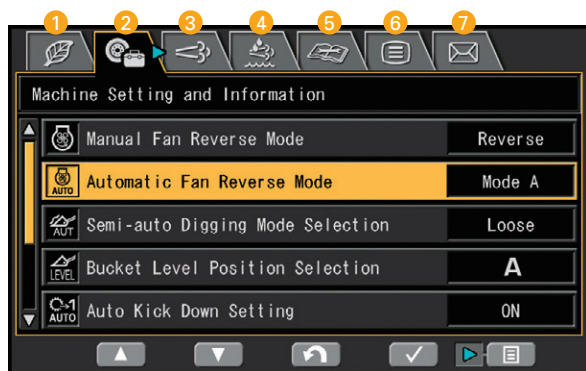
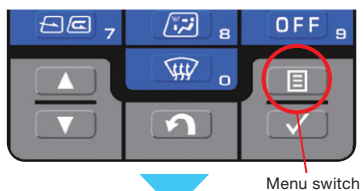
- | | |
|---------------------------|------------------------------------|
| 1 LCD unit | 8 Engine coolant temperature gauge |
| 2 LED unit | 9 Fuel gauge |
| 3 Engine tachometer | 10 HST oil temperature gauge |
| 4 Speedometer | 11 Variable speed display |
| 5 Ecology gauge | 12 Message pilot lamp |
| 6 Air conditioner display | 13 Pilot lamps |
| 7 Traction level | 14 DEF level gauge |

Switch panel

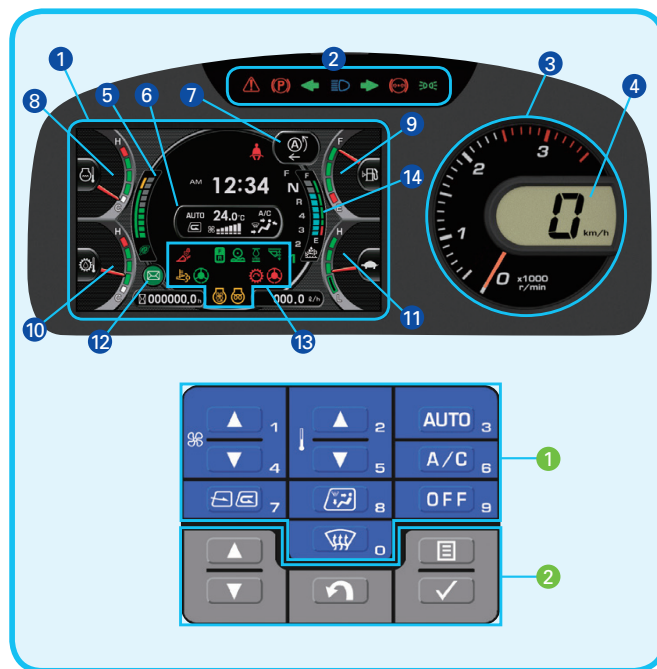
- 1 Air conditioner switches / Numeral key pad 2 Function switches

Visual user menu

Pressing the menu button on the switch panel accesses the user-menu screen. The menus are grouped by function, with easy-to-understand, intuitive icons for easier machine operation.



- 1 Energy saving guidance
- 2 Machine settings
- 3 Aftertreatment devices regeneration
- 4 SCR information
- 5 Maintenance
- 6 Monitor setting
- 7 Mail check



Operator identification function

An operator identification (ID) code can be set for each operator, and used to manage operation information of individual machines through KOMTRAX. Data sent from KOMTRAX can be used to analyze operation status by operator job, as well as by machine.



Monitor Panel with troubleshooting function minimizes downtime

Various meters, gauges and warning functions are centrally arranged on the monitor panel. The monitor simplifies start-up inspection and warns the operator with a lamp and buzzer if any abnormalities occur. Warnings are indicated in four levels, which the operator must acknowledge and clear.

Replacement times for oil and filters are also indicated.



MAINTENANCE FEATURES

WA320-8



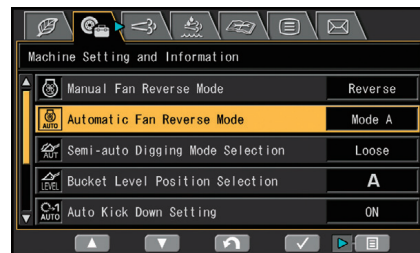
Side-opening Gull-wing Engine Doors

The large, gull-wing-type engine doors require minimal effort to open and close, thanks to gas assisted struts. The doors make access and daily maintenance easy. Large steps on each side of the frame also enhance accessibility.



Auto Reversing Fan

The engine cooling fan is hydraulically driven. It can be set to reverse automatically during operation. Fan reverse mode and timing can be controlled through the monitor.



Swing-Out Type Cooling Fan and Wide Core Radiator

The cooling fan swings out for easier cleaning. The coolers feature wide-spaced cooling fins to reduce clogging.



DEF Tank

The DEF tank is easily accessed behind the RH side ladder. An external sight gauge helps prevent overflow and spillage while refilling.



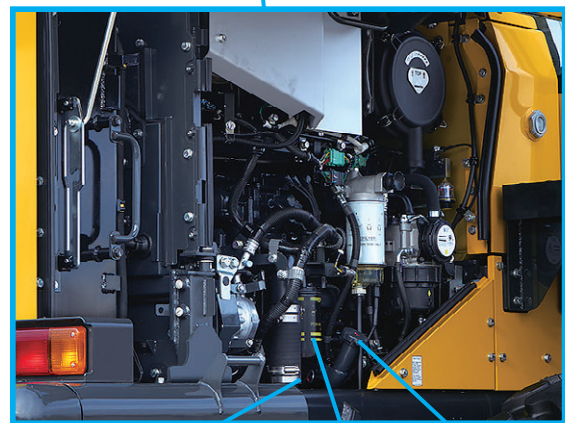
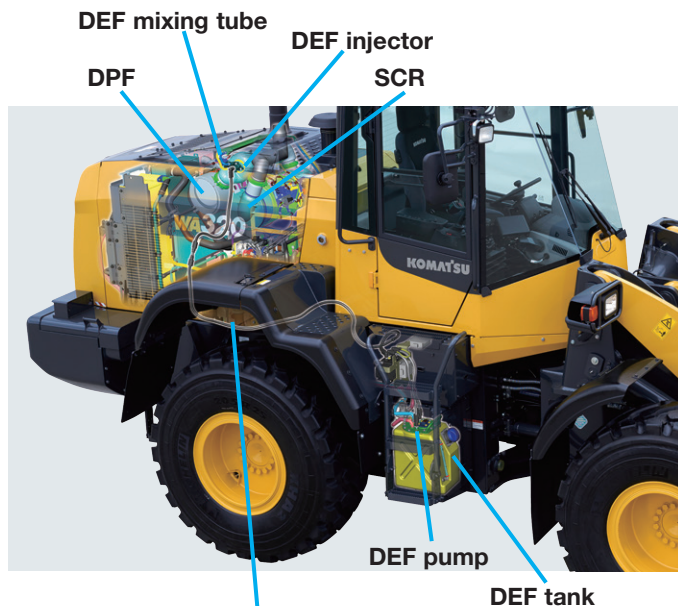
Battery Disconnect Switch

The battery disconnect switch is located on the right side of the machine. This can be used to disconnect power when performing service work on the machine.



Engine Compartment

The WA320-8 engine compartment is designed for easy serviceability. Placement of maintenance items, such as filters, dipsticks, and oil-fill locations are laid out for easy-to-reach, ground-level access.



Rear Full Fenders (Option)

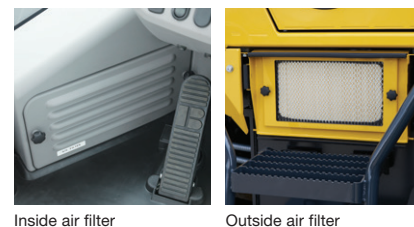
The WA320-8 has a new rear fender option. The rear fenders open upward and use gas-assist struts, which require low lift force.

The fenders swing up with the gull-wing doors to give the technician easy access to the engine compartment. Mud flaps are also included on the rear fenders.



Cab Air Filter

The inside and outside air filters can be replaced easily without the need for tools. The outside filter is located behind a lockable door for security.

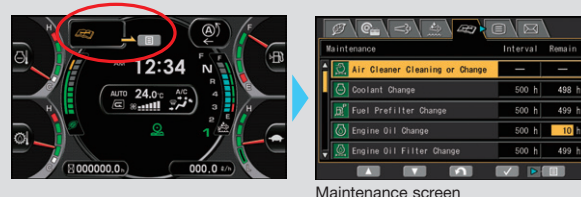


Maintenance Information

“Maintenance time caution lamp” display

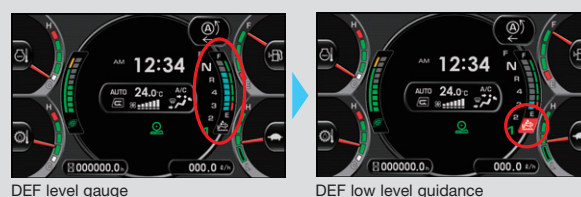
When the time before required maintenance dips below 30 hours*, the maintenance-time monitor appears. Pressing the menu switch displays the maintenance screen.

* : The setting can be changed within the range between 10 and 200 hours.



Supports DEF level and refill timing

The DEF level gauge is displayed continuously on the monitor panel. In addition, when the refill timing is reached, the DEF-low-level icon appears to alert the operator.



KOMATSU PARTS & SERVICE SUPPORT



KOMATSU CARE

Program Includes:

*The WA320-8 comes standard with complimentary factory scheduled maintenance for the first 3 Years or 2,000 Hours, whichever comes first.

Planned Maintenance Intervals at:

500/1000/1500/2000 hour intervals. (250 hr. initial interval for some products) Complimentary Maintenance Interval includes: Replacement of Oils & Fluid Filters with genuine Komatsu Parts, 50-Point inspection, Komatsu Oil & Wear Analysis Sampling (KOWA) / Travel & Mileage (distance set by distributor; additional charges may apply)

Benefits of Using Komatsu CARE

- Assurance of Proper Maintenance with OEM Parts & Service
- Increased Uptime & Efficiency
- Factory Certified Technicians Performing Work
- Cost of Ownership Savings
- Transferable Upon Resale

Complimentary DPF Exchanges

The WA320-8 comes standard with 2 Complimentary DPF Exchange units for the first 5 Years or 9000 hours whichever comes first. The suggested DPF Exchange unit service intervals are 4500 hours & 9000 hours. End user must have authorized Komatsu distributor perform the removal & installation of the DPF.

Complimentary SCR Maintenance

The WA320-8 also includes 2 factory recommended services of the Selective Catalytic Reduction (SCR) Diesel Exhaust Fluid (DEF) system during the first 5 Years or 9000 hours whichever comes first. The service includes factory recommended DEF tank flush & strainer cleaning at the suggested service intervals of 4500 hours & 9000 hours.

| Interval PM | i250 | 500 | 1000 | 1500 | 2000 |
|---|------|-----|------|------|------|
| CLEAN AC FRESH AND RECIRC AIR FILTERS | ✓ | | | | |
| REPLACE HYDRAULIC OIL FILTER ELEMENT | ✓ | | | | ✓ |
| REPLACE HST OIL FILTER | ✓ | | ✓ | | ✓ |
| KOWA SAMPLING – (Engine, Front Axle & Rear Axle, Hydraulics, Transfer case) | ✓ | ✓ | ✓ | ✓ | ✓ |
| CHECK AND CLEAN AIR CLEANER | ✓ | ✓ | ✓ | ✓ | ✓ |
| CHECK AND CLEAN FUEL BREATHER ELEMENT | ✓ | ✓ | ✓ | ✓ | ✓ |
| LUBRICATE REAR AXLE PIVOT PIN | ✓ | ✓ | ✓ | ✓ | ✓ |
| LUBRICATE WORK EQUIPMENT | ✓ | ✓ | ✓ | ✓ | ✓ |
| DRAIN SEDIMENT FROM FUEL TANK | ✓ | ✓ | ✓ | ✓ | ✓ |
| COMPLETE 50 POINT INSPECTION FORM; LEAVE PINK COPY WITH CUSTOMER OR IN CAB | ✓ | ✓ | ✓ | ✓ | ✓ |
| RESET MONITOR PANEL MAINTENANCE COUNTER FOR APPROPRIATE ITEMS | ✓ | ✓ | ✓ | ✓ | ✓ |
| CHANGE ENGINE OIL | | ✓ | ✓ | ✓ | ✓ |
| REPLACE ENGINE OIL FILTER | | ✓ | ✓ | ✓ | ✓ |
| REPLACE AC FRESH & RECIRC AIR FILTERS | | ✓ | ✓ | ✓ | ✓ |
| REPLACE FUEL PRE-FILTER | | ✓ | ✓ | ✓ | ✓ |
| REPLACE FUEL MAIN FILTER | | | ✓ | | ✓ |
| CHANGE OIL IN TRANSFER CASE | | | ✓ | | ✓ |
| CLEAN TRANSFER CASE STRAINER | | | ✓ | | ✓ |
| CLEAN TRANSFER BREATHER | | | ✓ | | ✓ |
| LUBRICATE CENTER HINGE PIN | | | ✓ | | ✓ |
| CHANGE OIL IN HYDRAULIC TANK | | | | | ✓ |
| REPLACE HYDRAULIC TANK BREATHER ELEMENT | | | | | ✓ |
| REPLACE DEF TANK BREATHER | | | | | ✓ |
| REPLACE DEF PUMP FILTER | | | | | ✓ |
| CLEAN HYDRAULIC TANK STRAINER | | | | | ✓ |
| CHANGE FRONT AND REAR AXLE OIL | | | | | ✓ |
| CLEAN BRAKE CIRCUIT STRAINER | | | | | ✓ |
| REPLACE KCCV FILTER | | | | | ✓ |
| FACTORY TRAINED TECHNICIAN LABOR | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2 DPF Exchanges at 4,500 Hrs and 9,000 Hrs. | | | | | |
| 2 SCR System Maintenance Services at 4,500 Hrs. and 9000 Hrs. | | | | | |

Komatsu CARE® – Extended Coverage

- Extended Coverage can provide peace of mind by protecting customers from unplanned expenses that effect cash flow
- Purchasing extended coverage locks-in the cost of covered parts and labor for the coverage period and helps turn these into fixed costs



Komatsu Parts Support

- 24/7/365 to fulfill your parts needs
- 9 parts Distribution Centers strategically located across the U.S. and Canada
- Distributor network of more than 300 locations across U.S. and Canada to serve you
- Online part ordering through Komatsu eParts
- Remanufactured components with same-as-new warranties at a significant cost reduction



Komatsu Oil and Wear Analysis (KOWA)

- KOWA detects fuel dilution, coolant leaks, and measures wear metals
- Proactively maintain your equipment
- Maximize availability and performance
- Can identify potential problems before they lead to major repairs
- Reduce life cycle cost by extending component life

* Certain exclusions and limitations apply. Refer to the customer certificate for complete program details and eligibility. Komatsu® and Komatsu Care® are registered trademarks of Komatsu Ltd. Copyright 2018 Komatsu America Corp.

WA320-8

KOMTRAX EQUIPMENT MONITORING

GET THE WHOLE STORY WITH
KOMTRAX[®]

✓ **WHAT**

- KOMTRAX is Komatsu's remote equipment monitoring and management system
- KOMTRAX **continuously monitors and records** machine health and operational data
- Information such as fuel consumption, utilization, and a detailed history **lowering owning and operating cost**

✓ **WHEN**

- Know when your machines are **running or idling** and make decisions that will improve your fleet utilization
- Detailed movement records ensure you know when and where your equipment is moved
- Up to date records allow you to **know when maintenance is due** and help you plan for future maintenance needs

✓ **WHERE**

- KOMTRAX data **can be accessed virtually anywhere** through your computer, the web or your smart phone
- Automatic alerts keep fleet managers up to date on the latest machine notifications

✓ **WHY**

- Knowledge is power - **make informed decisions** to manage your fleet better
- Knowing your idle time and fuel consumption will help maximize your machine efficiency
- **Take control of your equipment** - any time, anywhere

✓ **WHO**

- KOMTRAX is **standard** equipment on all Komatsu construction products



KOMTRAX[®]

For construction and compact equipment.

KOMTRAX Plus[®]

For production and mining class machines.

SPECIFICATIONS



ENGINE

Model..... Komatsu SAA6D107E-3*
 Type..... Water-cooled, 4-cycle
 Aspiration..... Variable geometry turbo-charged,
 after-cooled, cooled EGR
 Number of cylinders..... 6
 Bore..... 107 mm **4.21"**
 Stroke..... 124 mm **4.88"**
 Piston displacement..... 6.69 ltr **408 in³**
 Governor..... All-speed, electronic
 Horsepower:
 SAE J1995..... Gross 127 kW **170 HP**
 ISO 9249 / SAE J1349..... Net 123 kW **165 HP**
 Rated rpm..... 2100 rpm
 Max power - ISO 14396..... 126 kW **169 HP @ 1900 rpm**
 Fan drive method for radiator cooling..... Hydraulic
 Fuel system..... Direct injection
 Lubrication system:
 Method..... Gear pump, force-lubrication
 Filter..... Full-flow type
 Air cleaner..... Dry type with double elements and
 dust evacuator, plus dust indicator

*EPA Tier 4 Final emissions certified



TRANSMISSION

Transmission..... Hydrostatic, 1 pump, 2 motors
 with speed range select

| Travel speed | Forward | Reverse |
|--------------|---|---|
| 1st | 1.0 - 13.0 km/h 0.6 - 8.1 mph | 1.0 - 13.0 km/h 0.6 - 8.1 mph |
| 2nd | 13.0 km/h 8.1 mph | 13.0 km/h 8.1 mph |
| 3rd | 18.7 km/h 11.6 mph | 18.7 km/h 11.6 mph |
| 4th | 38.0 km/h 23.6 mph | 38.0 km/h 23.6 mph |

Measured with 20.5-R25 tires



AXLES AND FINAL DRIVES

Drive system..... Four-wheel drive
 Front..... Fixed, semi-floating
 Rear..... Center-pin support, semi-floating,
 24° total oscillation
 Reduction gear..... Spiral bevel gear
 Differential gear..... Torque proportioning
 Final reduction gear..... Planetary gear, single reduction



BRAKES

Service brakes..... Hydraulically actuated,
 wet disc brakes actuate on four wheels
 Parking brake..... Wet, multi-disc brake on transfer output shaft
 Secondary brake..... Parking brake is commonly used



STEERING SYSTEM

Type..... Articulated type, fully-hydraulic power steering
 Steering angle..... 38.5° each direction (40° to max end stop)
 Minimum turning radius at
 the center of outside tire..... 5380 mm **17' 8"**



HYDRAULIC SYSTEM

Steering system:
 Hydraulic pump..... Piston pump, in common
 with loader control
 Capacity..... 180 ltr/min **47.6 U.S. gal/min** at rated rpm
 Relief valve setting..... 20.6 MPa 210 kgf/cm² **3,000 psi**
 Hydraulic cylinders:
 Type..... Double-acting, piston type
 Number of cylinders..... 2
 Bore x stroke..... 70 mm x 453 mm **2.76" x 17.8"**

Loader control:
 Hydraulic pump..... Piston pump, in common
 with steering system
 Capacity..... 180 ltr/min **47.6 U.S. gal/min** at rated rpm
 Relief valve setting..... 30.4 MPa 310 kgf/cm² **4,410 psi**
 Hydraulic cylinders:
 Type..... Double-acting, piston type
 Number of cylinders—bore x stroke:
 Lift cylinder..... 2- 120 mm x 729 mm **4.7" x 28.7"**
 Bucket cylinder..... 1- 150 mm x 558 mm **5.9" x 22"**
 Control valve..... 2-spool type
 Control positions:
 Boom..... Raise, hold, lower, and float
 Bucket..... Tilt-back, hold, and dump
 Hydraulic cycle time (rated load in bucket)
 Raise..... 6.3 sec
 Dump..... 1.9 sec
 Lower (Empty)..... 3.5 sec

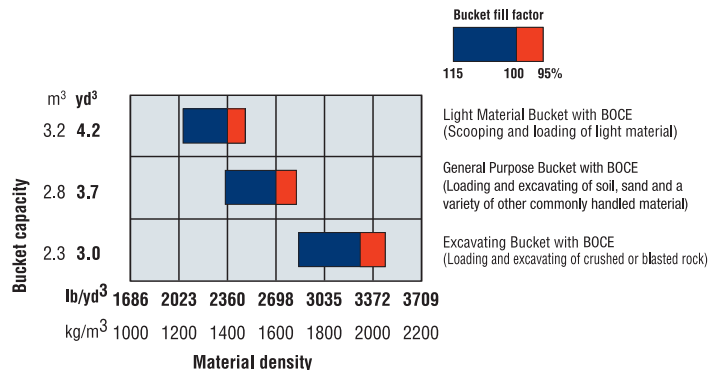


SERVICE REFILL CAPACITIES

Cooling system..... 35.1 ltr **9.3 U.S. gal**
 Fuel tank..... 245 ltr **64.7 U.S. gal**
 Engine..... 23 ltr **6.1 U.S. gal**
 Hydraulic system..... 92 ltr **24.3 U.S. gal**
 Axle front..... 27 ltr **7.1 U.S. gal**
 Axle rear..... 25.5 ltr **6.7 U.S. gal**
 Transfer case..... 5.8 ltr **1.5 U.S. gal**
 DEF tank..... 14 ltr **3.7 U.S. gal**



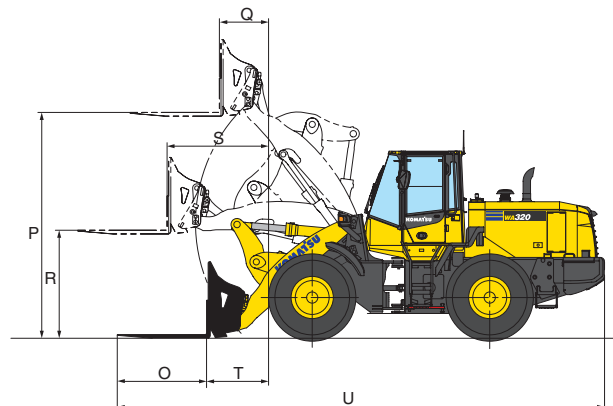
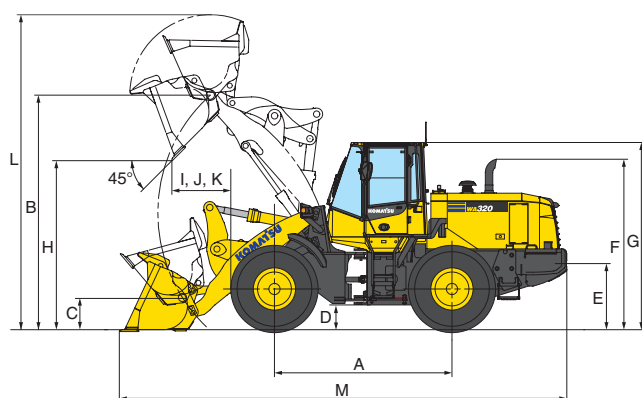
BUCKET SELECTION GUIDE





DIMENSIONS

Measured with 20.5-R25(L3) tires, ROPS/FOPS cab



| | | | |
|---------------------|----------------|---------|---------------|
| Tread | | 2050 mm | 6'9" |
| Width over tires | | 2590 mm | 8'6" |
| A Wheelbase | | 3030 mm | 9'11" |
| B Hinge pin height, | Standard Boom | 4005 mm | 13'2" |
| max. height | High Lift Boom | 4545 mm | 14'11" |

| | | | |
|------------------------------------|----------------|---------|--------------|
| C Hinge pin height, | Standard Boom | 545 mm | 1'9" |
| carry position | High Lift Boom | 705 mm | 2'4" |
| D Ground clearance | | 425 mm | 1'5" |
| E Hitch height | | 1085 mm | 3'7" |
| F Overall height, top of the stack | | 3040 mm | 10'0" |
| G Overall height, ROPS cab | | 3200 mm | 10'6" |

BUCKET

| | General Purpose Bucket w/ Pin On | | Light Material Bucket w/ Pin On | | Excavating Bucket w/ Pin On | | General Purpose Bucket w/ Quick Coupler | | High Lift General Purpose Bucket w/ Pin On |
|---|---|---|---|---|---|---|---|---|--|
| | B.O.C.E. | B.O.C.E. | B.O.C.E. | B.O.C.E. | B.O.C.E. | B.O.C.E. | B.O.C.E. | B.O.C.E. | |
| Bucket capacity: heaped | 2.8 m ³ 3.7 yd³ | 3.2 m ³ 4.2 yd³ | 2.3 m ³ 3.0 yd³ | 2.7 m ³ 3.5 yd³ | 2.3 m ³ 3.0 yd³ | 2.7 m ³ 3.5 yd³ | 2.3 m ³ 3.0 yd³ | 2.3 m ³ 3.0 yd³ | |
| struck | 2.4 m ³ 3.1 yd³ | 2.8 m ³ 3.7 yd³ | 1.9 m ³ 2.5 yd³ | 2.2 m ³ 2.9 yd³ | 1.9 m ³ 2.5 yd³ | 2.2 m ³ 2.9 yd³ | 1.9 m ³ 2.5 yd³ | 1.9 m ³ 2.5 yd³ | |
| Bucket width | 2740 mm 9'0" | 2740 mm 9'0" | 2740 mm 9'0" | 2740 mm 9'0" | 2740 mm 9'0" | 2740 mm 9'0" | 2740 mm 9'0" | 2740 mm 9'0" | |
| Bucket weight | 1330 kg 2,932 lb | 1445 kg 3,186 lb | 1370 kg 3,020 lb | 1260 kg 2,778 lb | 1260 kg 2,778 lb | 1260 kg 2,778 lb | 1255 kg 2,767 lb | 1255 kg 2,767 lb | |
| H Dumping clearance, max. height and 45° dump angle* | 2880 mm 9'5" | 2745 mm 9'0" | 2965 mm 9'9" | 2785 mm 9'2" | 2785 mm 9'2" | 2785 mm 9'2" | 3525 mm 11'7" | 3525 mm 11'7" | |
| I Reach at max. height and 45° dump angle* | 1000 mm 3'3" | 1110 mm 3'8" | 840 mm 2'9" | 1240 mm 4'1" | 1240 mm 4'1" | 1240 mm 4'1" | 980 mm 3'3" | 980 mm 3'3" | |
| J Reach at 2130 mm 7° clearance and 45° dump angle* | 1595 mm 5'3" | 1620 mm 5'4" | 1540 mm 5'1" | 1765 mm 5'9" | 1765 mm 5'9" | 1765 mm 5'9" | 2060 mm 6'9" | 2060 mm 6'9" | |
| K Reach with arm horizontal and bucket level* | 2500 mm 8'2" | 2665 mm 8'9" | 2350 mm 7'9" | 2735 mm 9'0" | 2735 mm 9'0" | 2735 mm 9'0" | 2825 mm 9'3" | 2825 mm 9'3" | |
| L Operating height (fully raised) | 5375 mm 17'8" | 5465 mm 17'11" | 5175 mm 17'0" | 5425 mm 17'10" | 5425 mm 17'10" | 5425 mm 17'10" | 5845 mm 19'2" | 5845 mm 19'2" | |
| M Overall length (bucket on ground) | 7690 mm 25'3" | 7855 mm 25'9" | 7540 mm 24'9" | 7840 mm 25'9" | 7840 mm 25'9" | 7840 mm 25'9" | 8125 mm 26'8" | 8125 mm 26'8" | |
| Loader clearance circle (bucket at carry, outside corner of bucket) | 12620 mm 41'5" | 12715 mm 41'9" | 12500 mm 41'0" | 12655 mm 41'6" | 12655 mm 41'6" | 12655 mm 41'6" | 13010 mm 42'8" | 13010 mm 42'8" | |
| Digging depth: 0° | 165 mm 6.5" | 165 mm 6.5" | 165 mm 6.5" | 65 mm 3" | 65 mm 3" | 65 mm 3" | 270 mm 11" | 270 mm 11" | |
| 10° | 375 mm 1'3" | 410 mm 1'4" | 350 mm 1'2" | 320 mm 1'0" | 320 mm 1'0" | 320 mm 1'0" | 460 mm 1'6" | 460 mm 1'6" | |
| Static tipping load: straight | 11500 kg 25,353 lb | 11410 kg 25,155 lb | 11485 kg 25,320 lb | 11255 kg 24,813 lb | 11255 kg 24,813 lb | 11255 kg 24,813 lb | 9175 kg 20,227 lb | 9175 kg 20,227 lb | |
| 40° full turn | 9780 kg 21,561 lb | 9670 kg 21,319 lb | 9745 kg 21,484 lb | 9520 kg 20,988 lb | 9520 kg 20,988 lb | 9520 kg 20,988 lb | 7710 kg 16,998 lb | 7710 kg 16,998 lb | |
| Breakout force | 162 kN 16470 kgf 36,310 lb | 139 kN 14130 kgf 31,151 lb | 185 kN 18870 kgf 41,601 lb | 140 kN 14240 kgf 31,473 lb | 140 kN 14240 kgf 31,473 lb | 140 kN 14240 kgf 31,473 lb | 197 kN 20088 kgf 44,287 lb | 197 kN 20088 kgf 44,287 lb | |
| Operating weight | 15480 kg 34,128 lb | 15600 kg 34,392 lb | 15520 kg 34,216 lb | 15870 kg 34,987 lb | 15870 kg 34,987 lb | 15870 kg 34,987 lb | 15680 kg 34,568 lb | 15680 kg 34,568 lb | |

* At the end of tooth or B.O.C.E.

All dimensions, weights, and performance values based on SAE J732c and J742b standards. Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator. Machine stability and operating weight affected by tire size and attachments.

FORK

| | Fork With Quick Coupler |
|---|--|
| O Fork tine length | 1524 mm 5'0" |
| P Ground to top of tine at maximum lift | 3855 mm 12'7" |
| Q Reach at maximum lift | 840 mm 2'9" |
| R Ground to top of tine - boom and tine level | 1845 mm 6'0" |
| S Reach - boom and tine level | 1730 mm 5'8" |
| T Reach - tine level on ground | 1060 mm 3'6" |
| U Overall length - tine level on ground | 8375 mm 27'6" |
| Static tipping load - boom level: straight | 8550 kg 18,850 lb |
| fork level, tine center | 40° full turn 7440 kg 16,402 lb |
| Operating weight | 15140 kg 33,378 lb |

Operating load per SAE J1197 (Feb. 1991), 50% of static tipping load.

Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator. Machine stability and operating weight affected by tire size and attachments.



WEIGHT CHANGES

| Tires or attachments | Change in operating weight | | Change in tipping load | | | | Width over tires | | Ground clearance | | Change in vertical dimensions | |
|---------------------------------|----------------------------|------|------------------------|------|-----------|------|------------------|-------|------------------|-------|-------------------------------|-------|
| | kg | lb | Straight | | Full turn | | mm | ft in | mm | ft in | mm | ft in |
| | | | kg | lb | kg | lb | | | | | | |
| 20.5-25-12PR (L2) | -165 | -364 | -105 | -231 | -95 | -209 | 2585 | 8'6" | 425 | 1'5" | 0 | 0 |
| Remove additional counterweight | -250 | -551 | -440 | -970 | -380 | -838 | 0 | 0 | 0 | 0 | 0 | 0 |



STANDARD EQUIPMENT

- 2-spool valve for boom and bucket control
- Alternator, 24 V/ 90 A
- Automatic hydraulic-driven fan with automatic reverse rotation
- Back-up alarm
- Batteries, 92 Ah/12V (2), 680 CCA
- Battery disconnect
- Boom kick-out, in-cab adjustable
- Bucket positioner
- Color, rear-view camera and monitor
- Counterweight, standard and additional
- Electronically Controlled Suspension System
- Engine, Komatsu SAA6D107E-3 diesel
- Engine shut-off system, electric
- Equipment Management Monitoring System (EMMS)
 - Lights (central warning, brake oil pressure, engine oil pressure, parking brake, cooling fan reverse, DPF restriction, seat belt caution, Komtrax message)
 - Gauges (DEF level, Engine water temperature, ecology, Fuel level, HST oil temperature, speedometer/tachometer), variable speed display
- Front fenders
- Fuel pre-filter with water separator
- Horn, electric
- Hydrostatic transmission
- Komatsu SmartLoader Logic
- Komatsu Auto Idle Shutdown
- KOMTRAX® Level 5
- Lift cylinders and bucket cylinder
- Lights
 - Back-up light
 - Stop and tail light
 - Turn signal lamps, 2 front and 2 rear with hazard switch
 - Working lights, halogen, 2 front cab mount
 - Working lights, halogen, 2 front fender mount
 - Working lights, halogen, 2 rear grill mount
- Loader linkage with standard lift arm
- Multifunction mono-lever loader control with transmission F/R switch
- Parking brake, electric
- Radiator, wider core
- Radiator mask, swing up
- Rear view mirrors, outside (2) inside (2)
- Rims for 20.5-R25 tires
- ROPS/FOPS Cab Level 2
 - 2 x DC12V electrical outlets
 - Ashtray
 - Auto air conditioner
 - Cigarette lighter, 24V
 - Color LCD/TFT multi-monitor
 - Cup holder
 - Floor mat
 - Operator seat, reclining, air suspension type, heated
 - Radio, AM/FM with AUX input jack
 - Rear defroster, electric
 - Seatbelt, 2-point retractable, 76mm 3" width
 - Space for lunch box
 - Steering wheel, tilt and telescopic
 - Sun visor, front window
 - Windshield washer and wiper, front with intermittent
 - Windshield washer and wiper, rear
- Service brakes, wet disc type
- Starting motor, 5.5 kW
- Transmission speed ranges, 4 forward and 4 reverse
- Vandalism protection kit, padlocks for battery box (2)



OPTIONAL EQUIPMENT

- Three-spool valve (will utilize integrated proportional control switch included in the multi-function mono-lever) and piping
- Auxiliary steering (SAE)
- Cutting edge (bolt-on type)
- Limited slip differential (F&R)
- Quick coupler
- Rear full fenders
- Various tire options, radial and bias
- Various bucket options

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03/18 (EV-3)

KOMATSU®

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