

KOMATSU

WA270-8

Tier 4 Final Engine

WHEEL LOADER

WA270



Photos may include optional equipment.

NET HORSEPOWER

149 HP @ 2000 rpm
111 kW @ 2000 rpm

OPERATING WEIGHT

28,208 – 29,079 lb
12795 – 13190 kg

BUCKET CAPACITY

2.5 – 3.5 yd³
1.9 – 2.7 m³

WALK-AROUND



Photos may include optional equipment.

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WA270-8



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 111 kW **149 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.

Komatsu Diesel Particulate Filter (KDPF) 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 WA270-7 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.

The **KOMTRAX®** telematics system is standard on Komatsu equipment with no subscription fees throughout the life of the machine. Using wireless technology, **KOMTRAX®** transmits valuable information such as location, utilization, and maintenance records to a PC or smartphone app. Custom machine reports are provided for identifying machine efficiency and operating trends. **KOMTRAX®** also provides advanced machine troubleshooting capabilities by continuously monitoring machine health.

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

PERFORMANCE FEATURES

KOMATSU NEW ENGINE TECHNOLOGIES

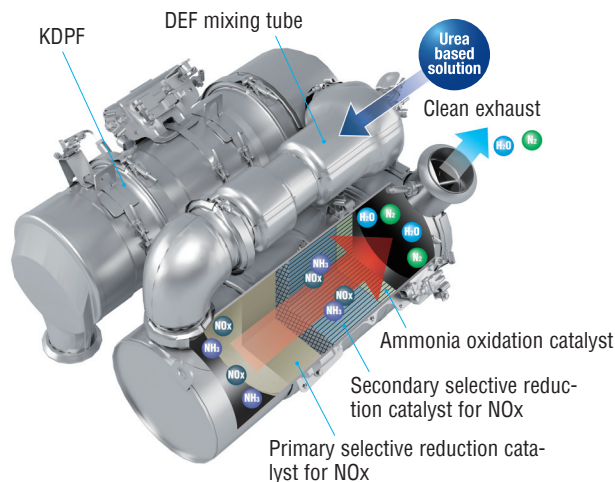
New Tier 4 Final Engine

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

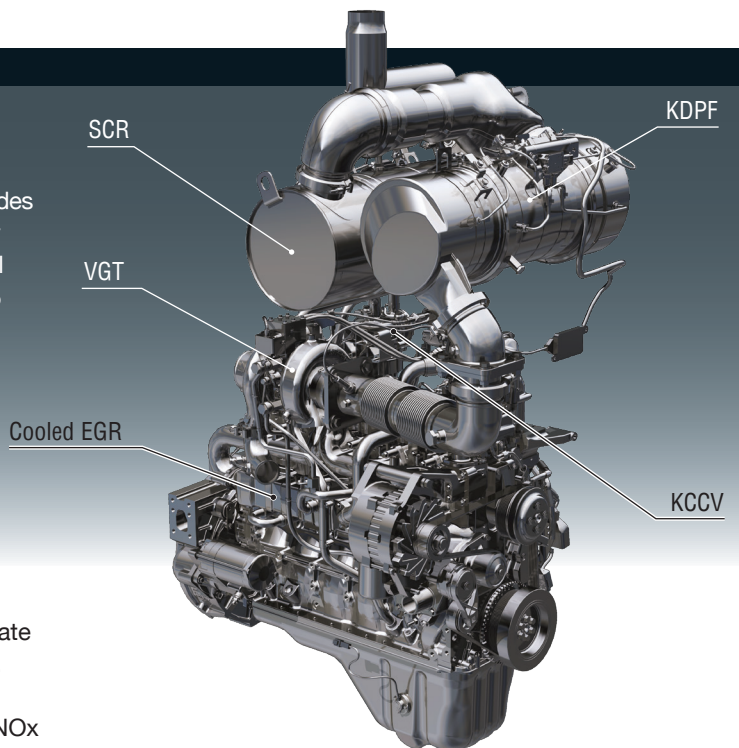
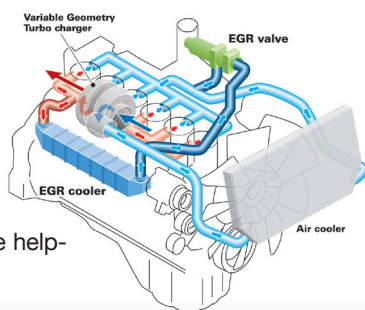
Heavy-Duty After Treatment System

This new system combines a Komatsu Diesel Particulate Filter (KDPF) 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.

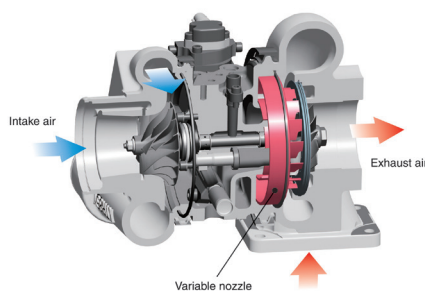


Advanced Electronic Control System

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.

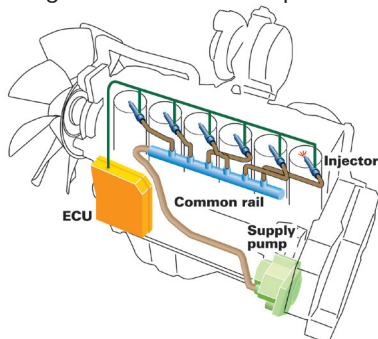
Variable Geometry Turbocharger (VGT) system

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 KDPF 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

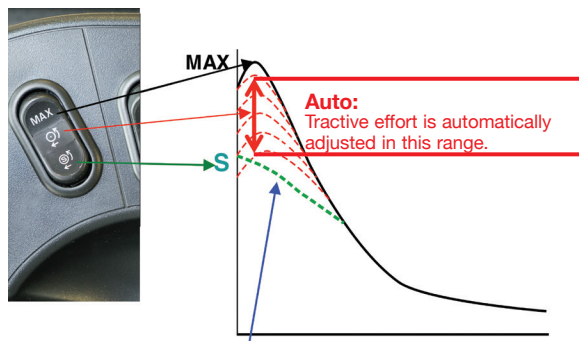
The WA270-8 features Komatsu SmartLoader Logic, which controls engine torque to match machine demands. For example, engine torque needs are higher for digging in V-shape loading, but lower when driving with an empty bucket. This system optimizes the engine torque for all applications to minimize fuel 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

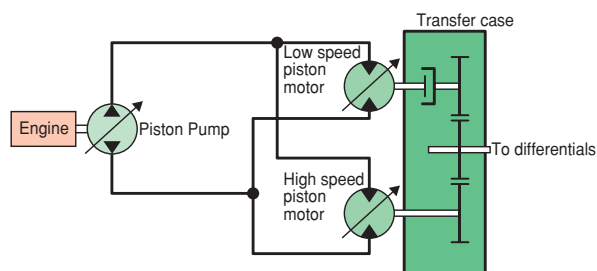
Creep Mode

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



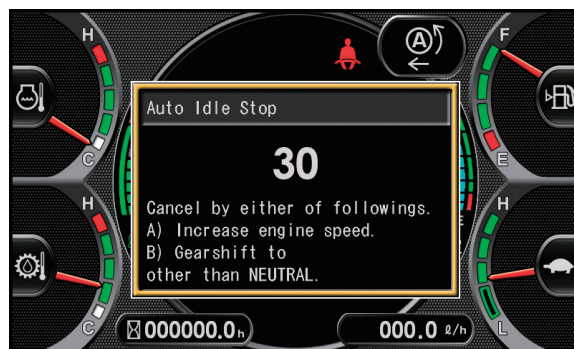
Closed-Center Load Sensing System (CLSS)

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



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

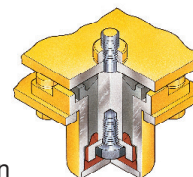
The operator can tilt and telescope the steering wheel to allow maximum comfort and control. The two-spoke steering wheel allows maximum visibility of the monitor panel and the forward work environment.



Low Noise Design

Operator's ear noise level: 68 dB(A)
Dynamic noise level (outside): 104 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 WA270-8 cab features a storage box on each side of the cab to allow the operator to store items such as a beverage or lunch.





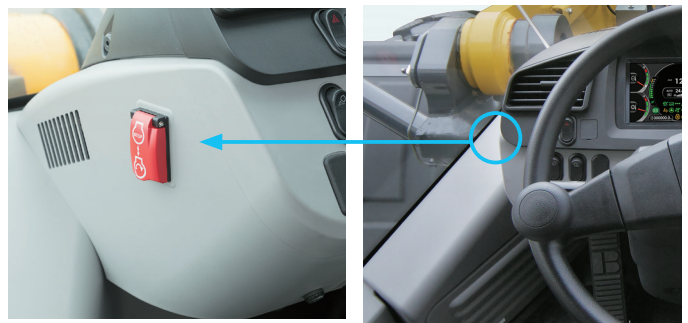
Standard Rear View Monitoring System

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.



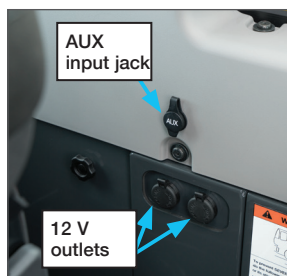
Engine Shutdown Secondary Switch

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

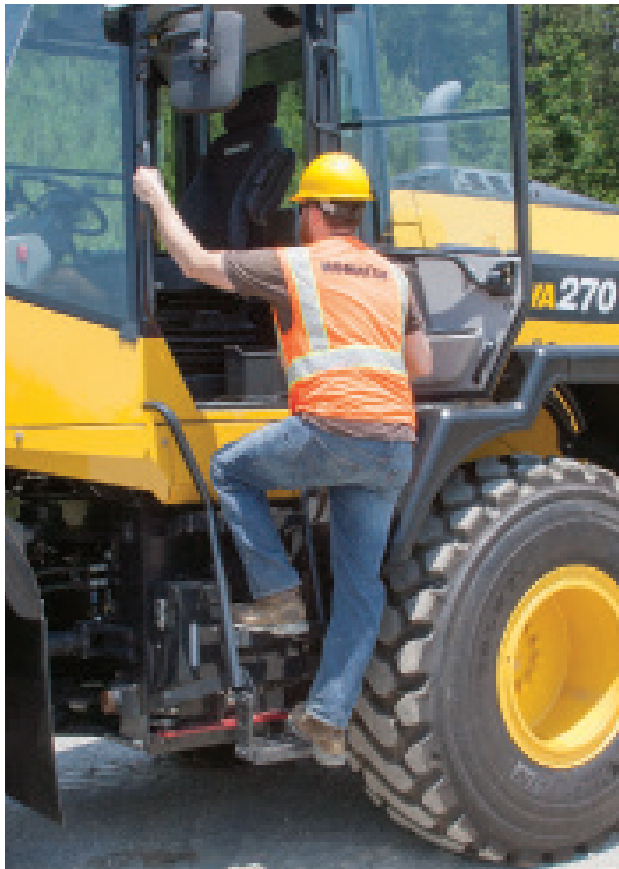


Auxiliary Input (MP3 Jack) 12 V Outlets

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 WA270-8 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.

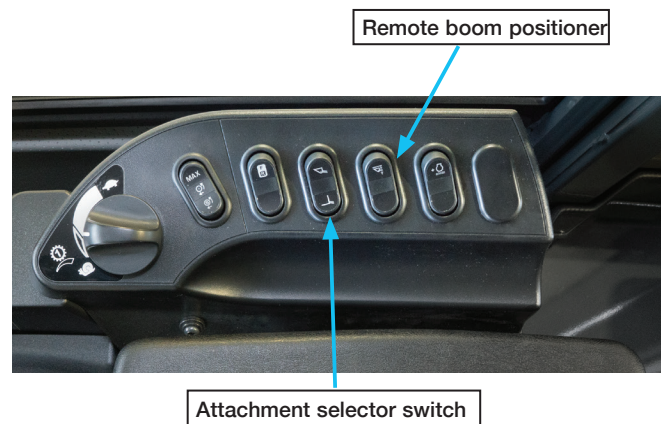
Multi-Function Mono Lever

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. This allows 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 seven inch 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 and help keep the operator informed of the machine's settings and conditions.

Machine monitor

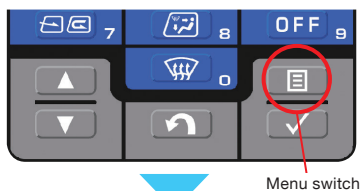
- 1 LCD unit
- 2 LED unit
- 3 Engine tachometer
- 4 Speedometer
- 5 Ecology gauge
- 6 Air conditioner display
- 7 Traction level
- 8 Engine coolant temperature gauge
- 9 Fuel gauge
- 10 HST oil temperature gauge
- 11 Variable speed display
- 12 Message pilot lamp
- 13 Pilot lamps
- 14 DEF level gauge

Switch panel

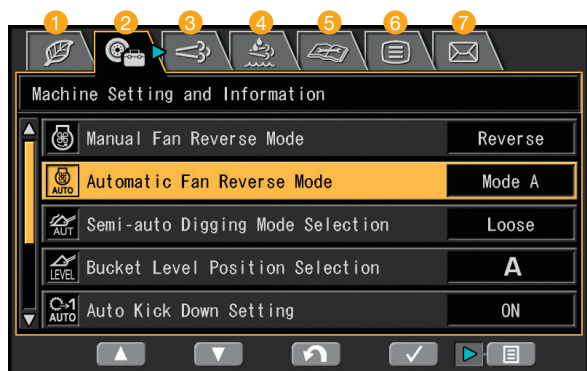
- 1 Air conditioner switches / Numeral key pad
- 2 Function switches

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.



Menu switch



- 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



WA270-8

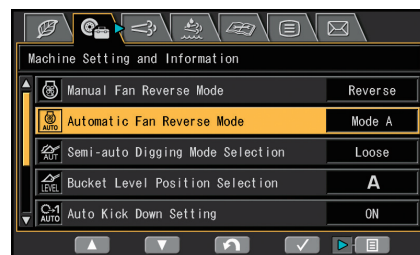
Side-opening Gull-wing Engine Doors

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.



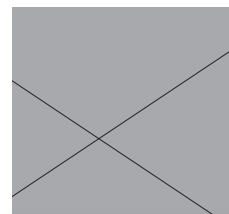
DEF Tank

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



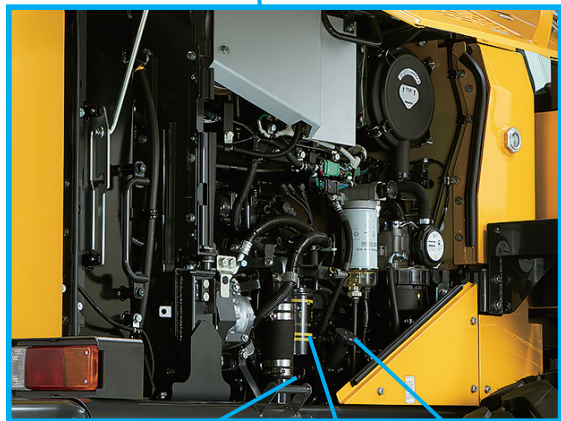
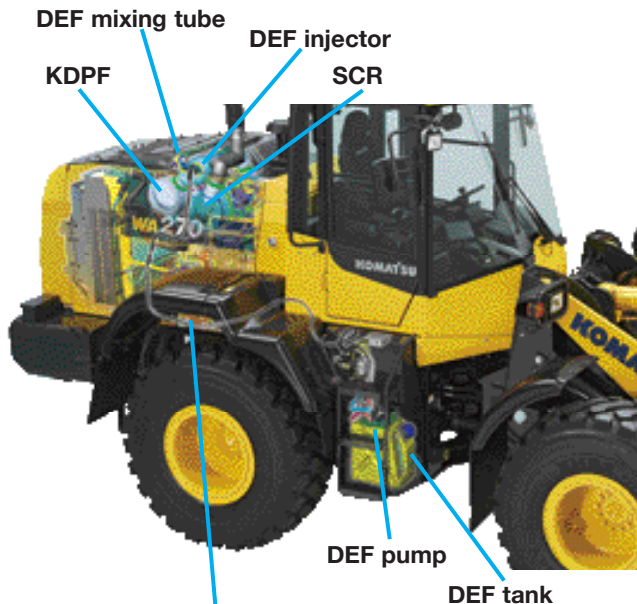
Battery Disconnect Switch

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.



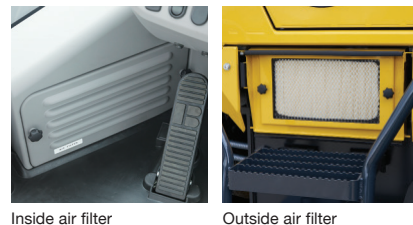
Engine Compartment

The WA270-8 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.



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.

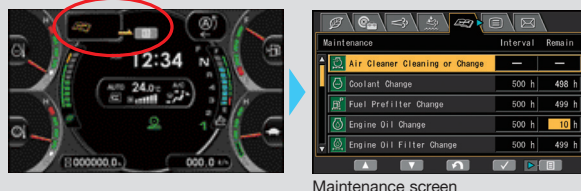


Maintenance Information

“Maintenance time caution lamp” display

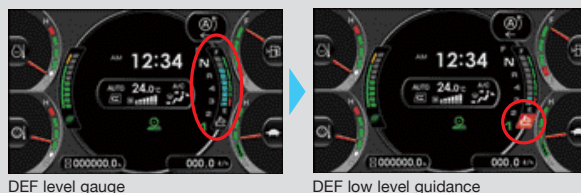
When the time before required maintenance dips below 30 hours*, the maintenance-time monitor appears. Pressing the menu switch displays the maintenance screen.

* : 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.



Rear Full Fenders (Option)

The WA270-8 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.



KOMATSU PARTS & SERVICE SUPPORT



KOMATSU CARE

Program Includes:

*The WA270-8 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

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



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	✓	✓	✓	✓	✓

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 2019 Komatsu America Corp.

WA270-8

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 115 kW **153 HP**
 ISO 9249 / SAE J1349..... Net 111 kW **149 HP**
 Rated rpm..... 2000 rpm
 Max power - ISO 14396..... 111 kW **149 HP @ 1650 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	19 km/h 11.8 mph	19 km/h 11.8 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° each direction (40° to max end stop)
 Minimum turning radius at the center of outside tire..... 5175 mm **17' 0"**



HYDRAULIC SYSTEM

Steering system:
 Hydraulic pump..... Piston pump, in common with loader control
 Capacity..... 150 ltr/min **39.6 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..... 150 ltr/min **39.6 U.S. gal/min** at rated rpm
 Relief valve setting..... 31.4 MPa 320 kgf/cm² **4,554 psi**
 Hydraulic cylinders:
 Type..... Double-acting, piston type
 Number of cylinders—bore x stroke:
 Lift cylinder..... 2- 110 mm x 717 mm **4.3" x 28.2"**
 Bucket cylinder..... 1- 140 mm x 480 mm **5.5" x 18.9"**
 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..... 6.0 sec
 Dump..... 2.0 sec
 Lower (Empty)..... 3.2 sec

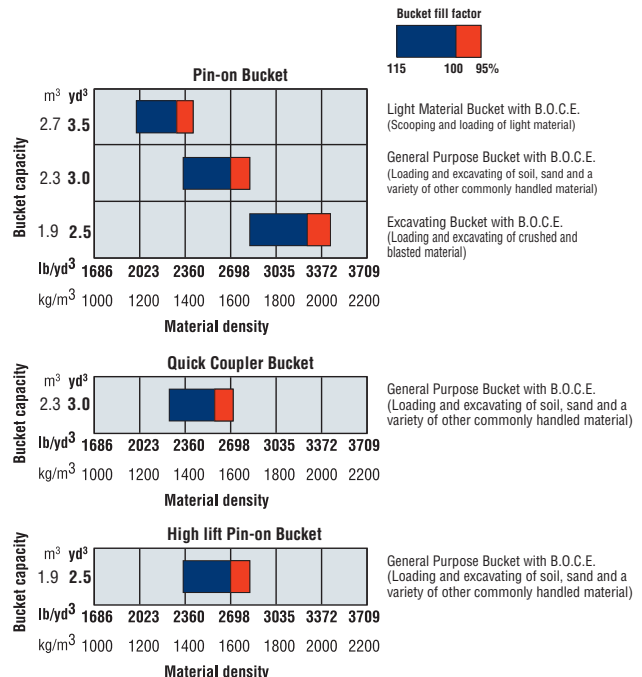


SERVICE REFILL CAPACITIES

Cooling system..... 33.3 ltr **8.8 U.S. gal**
 Fuel tank..... 186 ltr **49.1 U.S. gal**
 Engine..... 23 ltr **6.1 U.S. gal**
 Hydraulic system..... 80 ltr **21.1 U.S. gal**
 Axle front..... 18.5 ltr **4.9 U.S. gal**
 Axle rear..... 18.0 ltr **4.8 U.S. gal**
 Transfer case..... 7 ltr **1.8 U.S. gal**
 DEF tank..... 14 ltr **3.7 U.S. gal**



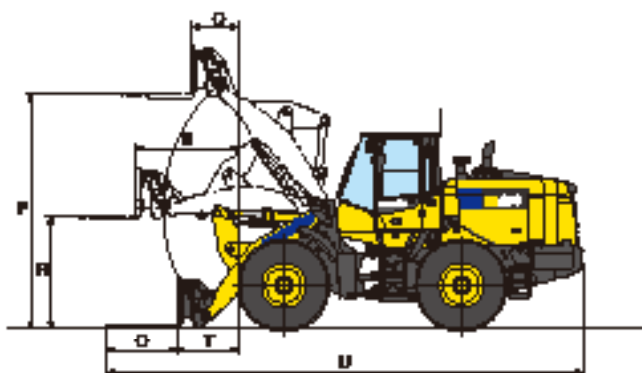
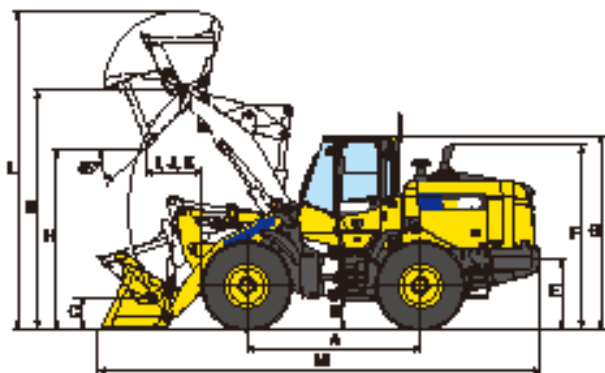
BUCKET SELECTION GUIDE





DIMENSIONS

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



Tread	1930 mm	6'4"
Width over tires	2505 mm	8'3"
A Wheelbase	2900 mm	9'6"
B Hinge pin height, max. height	Standard Boom 3965 mm High Lift Boom 4390 mm	13'0" 14'5"

C Hinge pin height, carry position	Standard Boom 515 mm High Lift Boom 630 mm	1'8" 2'1"
D Ground clearance	465 mm	1'6"
E Hitch height	950 mm	3'1"
F Overall height, top of the stack	3050 mm	10'0"
G Overall height, ROPS cab	3200 mm	10'6"

BUCKET

	General Purpose Bucket w/ Pin On		Excavating Bucket w/ Pin On		Light Material Bucket w/ Pin On		General Purpose Bucket w/ Quick Coupler		Excavating 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.	B.O.C.E.	
Bucket capacity: heaped	2.3 m ³ 3.0 yd³	1.9 m ³ 2.5 yd³	2.7 m ³ 3.5 yd³	2.3 m ³ 3.0 yd³	1.9 m ³ 2.5 yd³					
struck	2.1 m ³ 2.7 yd³	1.6 m ³ 2.1 yd³	2.4 m ³ 3.1 yd³	2.1 m ³ 2.7 yd³	1.6 m ³ 2.1 yd³					
Bucket width	2550 mm 8'4"	2550 mm 8'4"	2550 mm 8'4"	2685 mm 8'10"	2550 mm 8'4"					
Bucket weight	970 kg 2,138 lb	885 kg 1,951 lb	1030 kg 2,271 lb	1075 kg 2,370 lb	771 kg 1,700 lb					
H Dumping clearance, max. height and 45° dump angle*	2975 mm 9'9"	3055 mm 10'0"	2880 mm 9'5"	2865 mm 9'5"	3480 mm 11'5"					
I Reach at max. height and 45° dump angle*	945 mm 3'1"	865 mm 2'10"	1040 mm 3'4"	1090 mm 3'7"	966 mm 3'2"					
J Reach at 2130 mm 7° clearance and 45° dump angle*	1590 mm 5'3"	1545 mm 5'1"	1635 mm 5'4"	1635 mm 5'4"	1975 mm 6'6"					
K Reach with arm horizontal and bucket level*	2370 mm 7'9"	2255 mm 7'5"	2505 mm 8'3"	2450 mm 8'0"	2655 mm 8'9"					
L Operating height (fully raised)	5285 mm 17'4"	5150 mm 16'11"	5435 mm 17'10"	5360 mm 17'7"	5700 mm 18'7"					
M Overall length (bucket on ground)	7360 mm 24'2"	7310 mm 24'0"	7475 mm 24'6"	7465 mm 24'6"	7750 mm 25'5"					
Loader clearance circle (bucket at carry, outside corner of bucket)	12050 mm 39'6"	11990 mm 39'4"	12130 mm 39'10"	12220 mm 40'0"	12370 mm 40'7"					
Digging depth: 0°	130 mm 5"	130 mm 5"	130 mm 5"	110 mm 4.3"	235 mm 9"					
10°	325 mm 1'1"	310 mm 12"	350 mm 1'2"	320 mm 12.6"	430 mm 1'5"					
Static tipping load: straight	10330 kg 22,774 lb	10420 kg 22,972 lb	10235 kg 22,564 lb	9765 kg 21,528 lb	9910 kg 21,848 lb					
40° full turn	8930 kg 19,687 lb	9020 kg 19,886 lb	8865 kg 19,544 lb	8525 kg 18,794 lb	8510 kg 18,761 lb					
Breakout force	131 kN 13375 kgf 29,487 lb	147 kN 14965 kgf 32,992 lb	116 kN 11805 kgf 26,026 lb	111 kN 11370 kgf 25,067 lb	154 kN 15700 kgf 34,621 lb					
Operating weight	12880 kg 28,396 lb	12795 kg 28,208 lb	12940 kg 28,528 lb	13190 kg 29,079 lb	12910 kg 28,462 lb					

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

All dimensions, weights, and performance values based on ISO 7131, ISO 14397-1 and ISO 7546 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	1220 mm 4'0"
P Ground to top of tine at maximum lift	3825 mm 12'7"
Q Reach at maximum lift	810 mm 2'8"
R Ground to top of tine - boom and tine level	1840 mm 6'0"
S Reach - boom and tine level	1715 mm 5'6"
T Reach - tine level on ground	1055 mm 3'6"
U Overall length - tine level on ground	7860 mm 25'9"
Static tipping load - boom level: straight fork level, tine center	7320 kg 16,138 lb
40° full turn	6405 kg 14,121 lb
Operating weight	12905 kg 28,451 lb

Operating load per SAE J1197 (Oct, 2011), 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	-115	-254	-100	-220	2470	8' 1"	465	1' 6"	0	0
Remove additional counterweight	-280	-617	-515	-1135	-440	-970	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, KDPF 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

- Auxiliary steering (SAE)
- Centrifugal engine air pre-cleaner
- Cutting edge (bolt-on type)
- Engine oil and coolant heater
- Guarding package
- High lift boom and bucket cylinder
- Limited slip differential (F&R)
- Lube system
- Quick coupler
- Rear full fenders
- Three-spool valve (will utilize integrated proportional control switch included in the multi-function mono-lever) and piping
- Various tire options, radial and bias
- Various bucket and fork options

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Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.

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