

KOMATSU®

WA270-7

Tier 4 Interim Engine

WA270

NET HORSEPOWER

149 HP @ 2000 rpm
111 kW @ 2000 rpm

OPERATING WEIGHT

28,164 – 29,299 lb
12775 – 13290 kg

BUCKET CAPACITY

2.5 – 3.5 yd³
1.9 – 2.7 m³



PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT

WA270

WALK-AROUND

WA270-7



Photos may include optional equipment

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111 kW @ 2000 rpm

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12775 – 13290 kg

BUCKET CAPACITY
2.5 – 3.5 yd³
1.9 – 2.7 m³



A powerful Komatsu SAA6D107E-2 engine provides a net output of 111 kW **149 HP** with up to 10% improved fuel consumption.* This engine is EPA Tier 4 Interim and EU stage 3B emissions certified.

Komatsu Variable Geometry Turbocharger (KVGt) uses a hydraulic actuator to provide optimum air flow under various speed and load conditions.

Komatsu Diesel Particulate Filter (KDPF) captures 90% of particulate matter and provides automatic regeneration that does not interfere with daily operation.

Increased cooling capacity

- Auto-reversing fan is standard
- Wider core coolers

HIGH PRODUCTION WITH LOW FUEL CONSUMPTION

Hydrostatic Transmission:

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

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

An all new cab provides the operator with improved comfort and visibility.

New high resolution monitor panel

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

Rearview monitoring system (standard)

New high capacity air suspension seat

- Seat heater is standard
- Suspension dampener

Energy saving guidance

- Six operator guiding messages
- Enhanced eco-gauge

Komatsu Auto Idle Shutdown helps reduce idle time and reduce operating costs.



Remote boom positioner can set kickout.

Variable displacement piston pumps with CLSS help reduce fuel consumption.



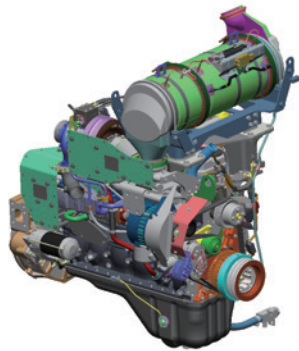
Komtrax equipped machines can send location, SMR and operation maps to a secure website utilizing wireless technology. Machines also relay error codes, cautions, maintenance items, fuel levels, and much more.

HIGH PRODUCTIVITY & LOW FUEL CONSUMPTION

High Performance Komatsu SAA6D107E-2 Engine

The Komatsu SAA6D107E-2 engine is EPA Tier 4 Interim and EU Stage 3B emissions certified and provides exceptional performance while reducing fuel consumption. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces exhaust gas particulate matter (PM) by more than 90% and nitrogen oxides (NOx) by more than 45% when compared to Tier 3 levels.

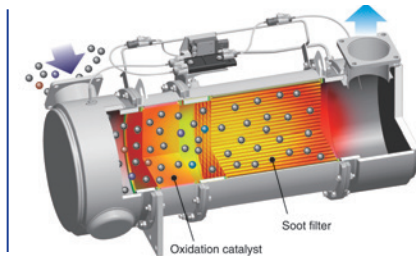
Through the in-house development and production of engines, electronics, and hydraulic components, Komatsu has achieved great advancements in technology, providing high levels of performance and efficiency in virtually all applications. The operator will notice high torque at low speeds, excellent operation and lower fuel consumption to provide maximum productivity.



Komatsu Diesel Particulate Filter (KDPF)

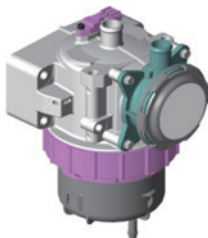
Komatsu has developed a high efficiency diesel particulate filter that captures more than 90% of particulate matter. Both passive and active regeneration are automatically initiated by the engine controller depending on the soot level of the KDPF. A special oxidation catalyst with a fuel injection system is used to oxidize and remove particulate matter while the machine is running so the regeneration process will not interfere with daily operation.

The operator can also initiate regeneration manually or disable regeneration depending on the work environment.



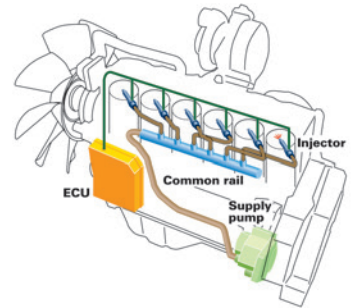
Closed Crankcase Ventilation (CCV)

Crankcase emissions (blow-by gas) are passed through a CCV filter. The CCV filter traps oil mist which is returned back to the crankcase while the gas, which is almost oil mist free, is fed back to the air intake.



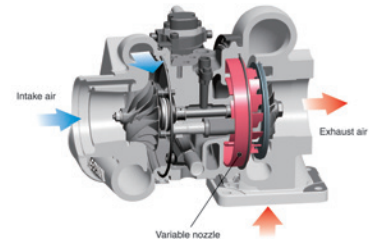
Heavy Duty High Pressure Common Rail (HPCR) Fuel Injection System

The heavy duty HPCR system is electronically controlled to deliver a precise quantity of pressurized fuel into the combustion chamber using multiple injection events to achieve complete fuel burn and reduce exhaust gas emissions. Fuel injector reliability has been improved by using ultra-hard wear resistant materials.



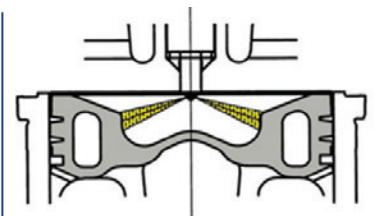
Komatsu Variable Geometry Turbocharger (KVTG)

Using Komatsu proprietary technology, a newly designed variable geometry turbocharger with a hydraulic actuator is used to manage and deliver optimum air flow to the combustion chamber under various speed and load conditions. The robust hydraulic actuator provides power and precision, resulting in cleaner exhaust gas, quick acceleration and improved fuel economy while maintaining performance.



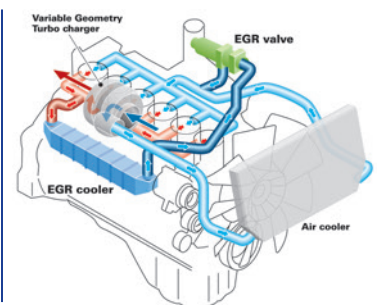
Redesigned Combustion Chamber

The combustion chamber located at the top of the engine piston has a new shape designed to improve combustion and further reduce NOx, PM, fuel consumption, and noise levels.



Cooled Exhaust Gas Recirculation (EGR)

Cooled EGR, a technology that has been well proven in Komatsu Tier 3 engines, reduces NOx emissions to meet Tier 4 levels. The hydraulically actuated EGR system has increased capacity and uses larger and more robust components to ensure reliability for demanding work conditions.

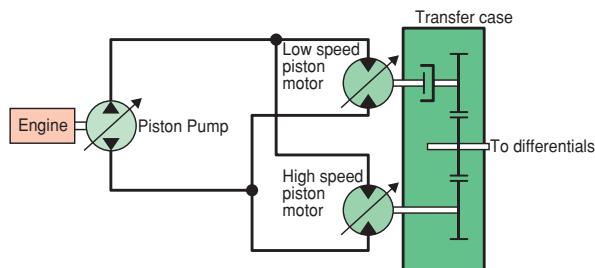


Komatsu SmartLoader Logic

Wheel loaders have different torque requirements depending on working conditions. Komatsu SmartLoader Logic reads data from various sensors and vehicle controls to precisely control the torque output. This lowers the torque output during less demanding work, saving fuel. And because it's seamless to the operator, it operates without decreasing production.

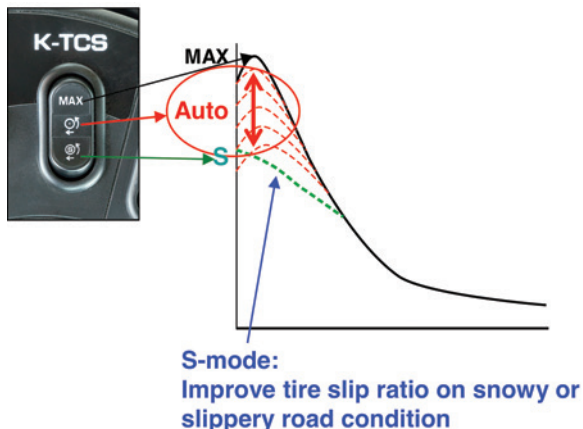
Closed Center Load Sensing System

The 1-pump, 2-motor system utilizes a Closed Center Load Sensing pump (CLSS). This system minimizes hydraulic loss for better fuel economy by delivering just as much flow as the job requires. This means there is no wasted flow.



Variable Traction Control System

The new variable speed control system is designed to adjust the operating speed 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.



Fuel consumption decreased by up to 10%

(Compared with the WA250-6)

Hydrostatic Transmission

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 prolongs the life of the wet disc brakes.

Eco-Guidance

In order to support optimum operation, the following 4 recommendations are displayed to improve fuel saving operation:

- 1) Avoid Excessive Engine Idling
- 2) Use Economy Mode to Save Fuel
- 3) Avoid Hydraulic Relief Pressure
- 4) Traction Control Recommendation

The operator can access the Eco guidance menu to check the Operation Records, Eco Guidance Records, and Average Fuel Consumption logs.



Creep Mode

Creep mode limits the travel speed while still allowing for full hydraulic flow.



New Designed Cabin

The new cabin offers better ergonomics, more storage space and more features to improve operator comfort.



Heated Operator Seat with Air Suspension

A new higher capacity heated, air suspension seat with suspension damper is now standard. The arm rest angle is fully adjustable for optimum operator comfort.



Tiltable / Telescopic Steering Wheel

The WA270-7 comes standard with a tiltable and telescopic steering wheel that can be moved forward and out of the way for easy entry and exit of the cab.

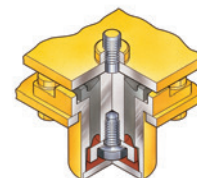


Low Noise Design

Operator's ear noise level : 70 dB(A)

Dynamic noise level (outside): 107 dB(A)

The large cab is mounted with Komatsu's unique ROPS/FOPS viscous mounts. The low-noise engine, hydraulically driven fan, and hydraulic pumps are mounted with rubber cushions, and the cab sealing is designed to provide a quiet, low-vibration, dustproof, and comfortable operating environment.



Increased Cab Storage Area

The WA270-7 cab features a storage box on the left hand side of the cab to allow the operator to store items out of the way. A storage box on the right hand side of the cab allows the operator to keep a beverage or lunch out of the way.



Ergonomic Comfort

The dashboard and cab have been redesigned to improve operator comfort. The monitor can be controlled by the multi-switch panel. Also, the front glass of the cab has been lowered to improve visibility.



Rear View Monitoring System (standard)

The operator can view the area directly behind the machine with a full color monitor that is located on the right side of the cab. This monitor can be set to be always on or only on when the loader goes into reverse. Visual guidelines can also be added to show the machine's travel path.



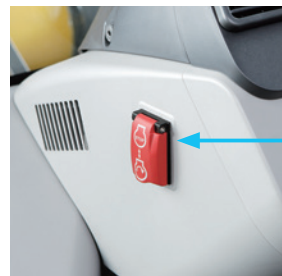
Seat Belt Caution Indicator

A warning indicator on the monitor appears when the seat belt is not engaged.



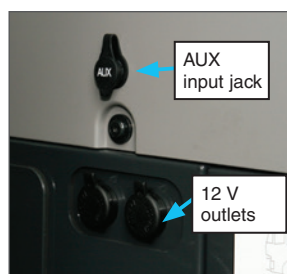
Engine Shutdown Secondary Switch

The engine stop switch is incorporated to allow shutdown of the machine when accessing the key switch is not possible.



Auxiliary Input (MP3 Jack) 12 V Outlets

An Aux input to allow use of an MP3 player or other device is now standard as well as two 12 volt outlets. These are all easily accessible to the left rear of the operator's seat.





Easier Entry and Egress

The WA270-7 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 (ECSS)

The Electronically Controlled Suspension System (ECSS) 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. ECSS is speed sensitive, meaning that the boom won't move during stationary digging. ECSS is standard on the WA270-7.

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 kickout 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

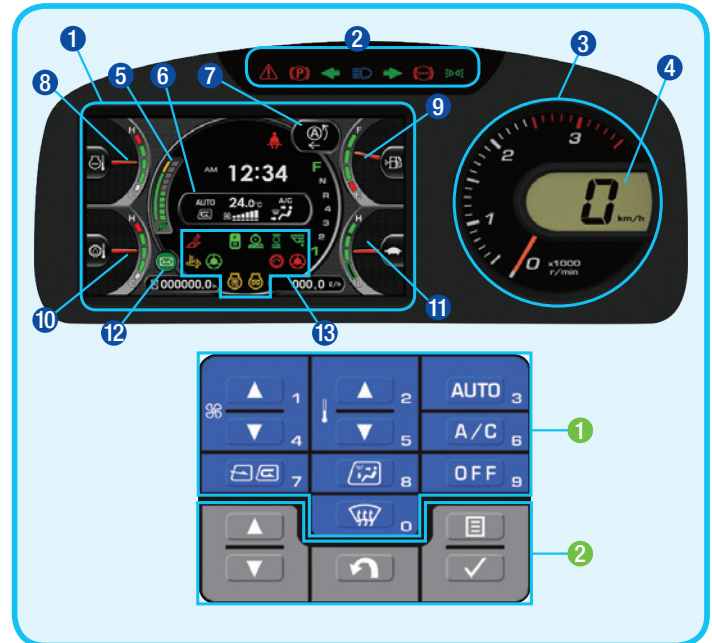
The new 7" color LCD monitor panel displays operational information, Eco-Guidance and maintenance records. Information such as traction mode, coolant temp, oil and fuel levels are easy to read to keep the operator informed of the machine's settings and conditions.

Machine monitor

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

Switch panel

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



Easy To Use Tab System

The easy to use tab system is controlled through the switch panel. Reading like pages, the tabs hold and display operational records, fuel consumption, KDPF regeneration information and much more. Finding the right information is quick and easy.

Maintenance and Service Mode

Maintenance menus and service mode mean that a technician doesn't need to plug a laptop into the machine. Customizable service screens help speed diagnostics.

Know One, Know Them All

Commonality between product lines means that if an operator is familiar with one machine, they will be familiar with others as well. This makes it easier on operators switching between machines on a job site.





Photos may include optional equipment

Full Side-Opening Gull-Wing Engine Doors

The large gull-wing type engine doors are operated with low effort assisted by gas springs. The doors open in two steps for easy access to maintenance points. Large steps and hand holds are provided on each side of the frame to help access.



Photos may include optional equipment

Swing-out Type Cooling Unit

The large capacity cooling unit swings open for cleaning. It features wider spacing of cooling fins to reduce clogging.



Photos may include optional equipment

Auto Reversing Fan

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



Maintenance Function

The monitor informs the operator when the replacement interval for oil and filters will be reached.



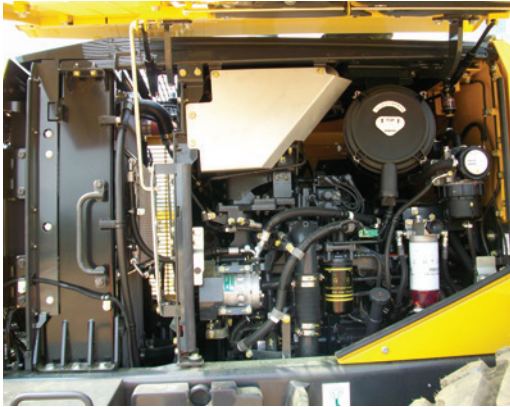
Battery Disconnect

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



Engine Compartment

The WA270-7 engine compartment was laid out for easy serviceability. Great attention was paid to the location of the maintenance items, such as the filters, dipstick and oil fill locations. The same goes for the KDPF and CCV filter, as even the top of the hood was redesigned to ease removal of the KDPF for cleaning or replacement.



KDPF Regeneration

The LCD color monitor panel provides the operator with the status of the KDPF regeneration, without interfering with daily operation.

When the machine automatically initiates active regeneration, an icon will appear to notify the operator.



KDPF regeneration indicator

Manual Stationary Regeneration

Under most conditions, active regeneration will occur automatically with no effect on machine operation. In case the operator needs to disable active regeneration or initiate a manual stationary regeneration, this can be easily accomplished through the monitor panel.

A soot level indicator is displayed to show how much soot is trapped in the KDPF.



Soot level indicator

Rear Full Fenders (Option)

The WA270-7 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 Intake Filter

The cab air intake filter is located beneath the door, on the left hand side of the machine behind a lockable door, for easy access and security.



Komatsu CARE – Complimentary Scheduled Maintenance

- PM services for the earlier of 3 years / 2000 hours
- Performed by factory certified technicians
- Komatsu Genuine parts and fluids
- Significantly lowers your cost of ownership while maintaining high uptime and reliability
- Increases resale value and provides detailed maintenance records
- Extended PM services can be purchased beyond the complimentary period to provide additional peace of mind and maximize uptime



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

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 **aids in making repair or replacement decisions**

✓ 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 was done** 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

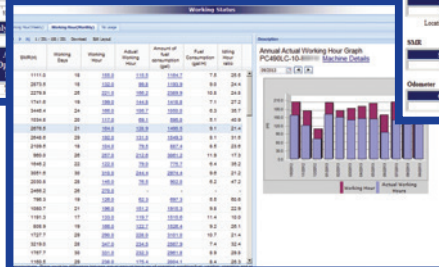
- KOMTRAX is **standard** equipment on all Komatsu construction products



Monthly Operational Analysis



Fleet Working Status



Location/Hours/Working



KOMTRAX®

For construction and compact equipment.

KOMTRAX Plus™

For production and mining class machines.



ENGINE

Model..... Komatsu SAA6D107E-2*
 Type..... Water-cooled, 4-cycle
 Aspiration..... 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..... 115 kW **153 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 Interim and EU stage 3B 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	19.0 km/h 11.8 mph	19.0 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,
 20° 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 **4,555 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..... 5.7 sec

Dump..... 2.0 sec

Lower (Empty)..... 3.2 sec



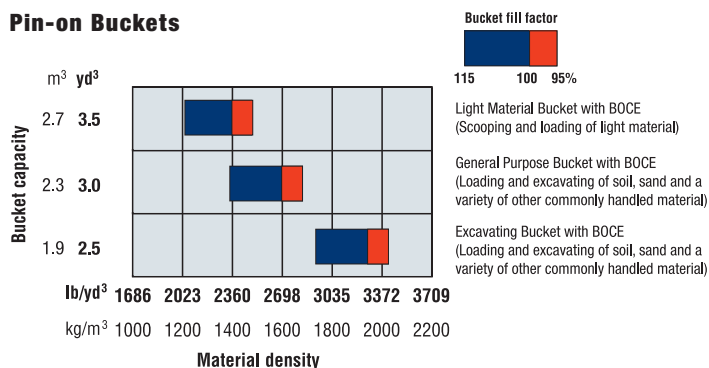
SERVICE REFILL CAPACITIES

Cooling system..... 28 ltr **7.4 U.S. gal**
 Fuel tank..... 186 ltr **49.1 U.S. gal**
 Engine..... 23 ltr **6.7 U.S. gal**
 Hydraulic system..... 78 ltr **20.6 U.S. gal**
 Axle front..... 18.5 ltr **4.9 U.S. gal**
 Axle rear..... 18 ltr **4.8 U.S. gal**
 Transfer case..... 7 ltr **2.1 U.S. gal**

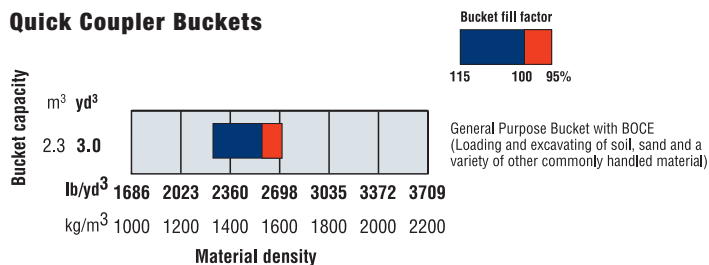


BUCKET SELECTION GUIDE

Pin-on Buckets



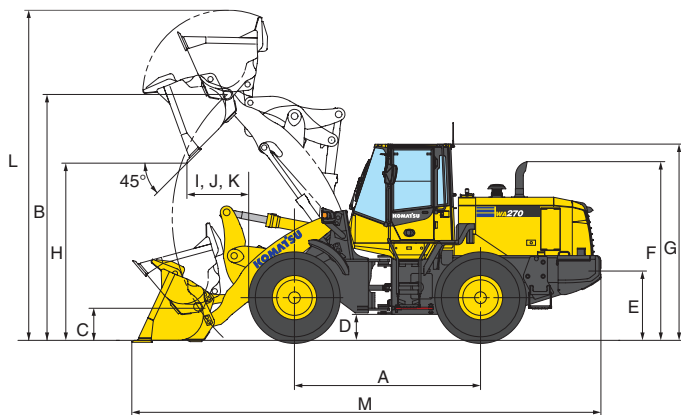
Quick Coupler Buckets



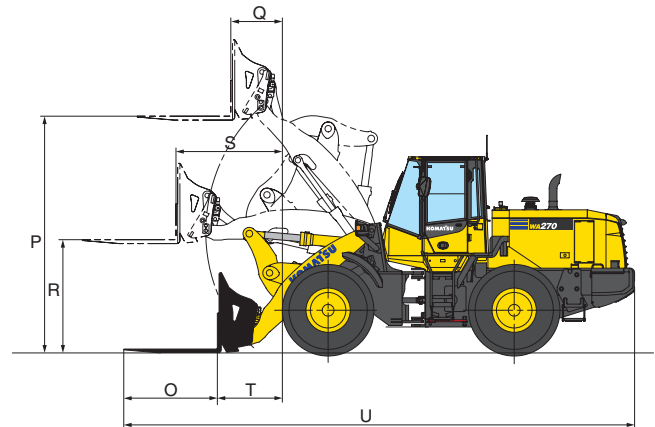


DIMENSIONS

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	13'0"
	High Lift Boom	4390 mm	14'5"



C Hinge pin height,	Standard Boom	515 mm	1'8"
carry position	High Lift Boom	630 mm	2'1"
D Ground clearance		465 mm	1'6"
E Hitch height		950 mm	3'1"
F Overall height, top of the stack		2920 mm	9'7"
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	High Lift Boom Excavating Bucket
	BOCE	BOCE	BOCE	BOCE	BOCE
Bucket capacity: heaped	2.3 m³ 3.0 yd³	1.9 m³ 2.5 yd³	2.7 m³ 3.5 yd³	2.3 m³ 3.0 yd³	1.9 m³ 2.5 yd³
struck	2.1 m³ 2.7 yd³	1.6 m³ 2.1 yd³	2.4 m³ 3.1 yd³	2.0 m³ 2.6 yd³	1.6 m³ 2.1 yd³
Bucket width	2550 mm 8'4"	2550 mm 8'4"	2550 mm 8'4"	2691 mm 8'10"	2550 mm 8'4"
Bucket weight	970 kg 2,138 lb	885 kg 1,951 lb	1030 kg 2,271 lb	1015 kg 2,236 lb	885 kg 1,951 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"	970 mm 3'2"
J Reach at 2130 mm 7" clearance and 45° dump angle*	1585 mm 5'2"	1545 mm 5'1"	1635 mm 5'4"	1637 mm 5'4"	1965 mm 6'5"
K Reach with arm horizontal and bucket level*	2395 mm 7'10"	2255 mm 7'5"	2505 mm 8'3"	2448 mm 8'0"	2650 mm 8'8"
L Operating height (fully raised)	5285 mm 17'4"	5149 mm 16'11"	5434 mm 17'10"	5358 mm 17'7"	5700 mm 18'7"
M Overall length (bucket on ground)	7305 mm 24'0"	7255 mm 23'10"	7420 mm 24'4"	7465 mm 24'6"	7690 mm 25'3"
Loader clearance circle (bucket at carry, outside corner of bucket)	12050 mm 39'6"	11990 mm 39'4"	12130 mm 39'10"	12180 mm 40'0"	12370 mm 40'7"
Digging depth: 0°	130 mm 5"	130 mm 5"	130 mm 5"	110 mm 4.3"	260 mm 10"
10°	325 mm 1'1"	308 mm 1'1"	351 mm 1'2"	320 mm 1'2"	430 mm 1'5"
Static tipping load: straight	10475 kg 23,093 lb	10660 kg 23,501 lb	10340 kg 22,796 lb	9575 kg 21,109 lb	8660 kg 19,092 lb
40° full turn	9170 kg 20,216 lb	9330 kg 20,570 lb	9045 kg 19,941 lb	8380 kg 18,475 lb	7,580 kg 16,711 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	153 kN 15650 kgf 34,502 lb
Operating weight	12860 kg 28,351 lb	12775 kg 28,164 lb	12920 kg 28,484 lb	13290 kg 29,299 lb	12910 kg 28,462 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	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	7045 kg
fork level, tine center	15,532 lb
40° full turn	6130 kg
	13,514 lb
Operating weight	13110 kg 28,903 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 dimension	
			Straight		Full turn							
	kg	lb	kg	lb	kg	lb	mm	ft in	mm	ft in	mm	ft in
20.5-25-12PR (L2)	-165	-364	-115	-254	-100	-220	2470	8'1"	465	1'6"	0	0
Remove additional counterweight	-280	-617	-510	-1,124	-435	-959	0	0	0	0	0	0



STANDARD EQUIPMENT

- 2-spool valve for boom and bucket control
- Alternator - 60 Amp 24V
- Automatic hydraulic-driven fan with automatic reverse rotation
- Back-up alarm
- Batteries - 92 Ah 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 (ECSS)
- Engine, Komatsu SAA6D107E-2 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 (Engine water temperature, ECO, 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 4
- 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
- Transmission speed ranges, 4 forward and 4 reverse
- Vandalism protection kit, padlocks for battery box (2)



OPTIONAL EQUIPMENT

- 3-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