KOMATSU

WA600-8

Wheel loader



Net horsepower
529 HP (395 kW) @ 1,800 rpm

Operating weight
122,136–126,678 lbs. (55,400-57,460 kg)

Bucket capacity
8.4-10.2 yd^3 (6.4-7.8 m^3)



Photos may include optional equipment.

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Performance, durability and fuel economy

Large capacity torque converter with lock-up provides:

- Quick acceleration
- Lock-up in 2nd, 3rd and 4th gear

A powerful Komatsu SAA6D170E-7 engine provides a net output of 529 HP (395 kW) with up to 13% improved fuel consumption in E mode and up to 7% in P mode. This engine is EPA Tier 4 Final emissions certified.

Variable geometry turbocharger (VGT) uses a hydraulic actuator to provide optimum air flow under all speed and load conditions.

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.

Variable traction control system and modulated clutch system provide optimal tractive effort for all ground conditions.

Cooling

- Hydraulically driven, variable-speed fan
- Reversing fan is standard
- Wider core coolers resist clogging
- Swing-out fan for easy cleaning

Remote boom and bucket positioners allow kickouts to be set from inside the cab.

Variable displacement piston pumps with closed-center load sensing system (CLSS) provide quick response and smooth operation to maximize productivity.

Rearview monitoring system (standard)

Advanced diagnostic system continuously monitors machine operation and vital systems to identify machine issues and assist with troubleshooting.

Enhanced working environment

- High-capacity, heated and ventilated, deluxe air suspension seat
- Seat mounted Advanced Joystick Steering System (AJSS) and Electronic Pilot Control (EPC) controls
- Two 12 V power outlets

Redesigned style Komatsu bucket with liner and ground engagement tooling (GET) fills more easily and retains material better for increased productivity.

Full rear fenders with stairs and handrails are standard for both sides of the machine. The RH fender has a door for convenient access to daily maintenance points.

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

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



Large LCD color monitor panel

- 7" high-resolution, multicolor screen is easy to read
- Integrated load meter system displays payload data directly on the monitor panel
- Includes an "Ecology" gauge and provides guidance for greater fuel efficiency
- Onboard diagnostics do not require use of a laptop computer
- Easy-to-navigate menus allow operators to change settings, review machine performance records and track periodic maintenance items

Komatsu telematics solutions: Telematics data can drive results for business operations, but only when you can collect and analyze it efficiently. We've designed a system that makes it easy to collect, visualize and monitor telematics data from both Komatsu machines and other OEM machines.

My Komatsu, our comprehensive digital hub, analyzes telemetric data from your on-machine technology — Komtrax and Komtrax Plus, or ISO API 15143-3 (AEMP 2.0) data from other OEMs — and displays it on easy-to-read dashboards. Now you can finally get the powerful analytics you need to manage your costs and enhance your fleet's efficiency without a complicated process or expensive third-party solutions.

Komtrax Plus function expands machine monitoring capabilities to include component condition and trend data.

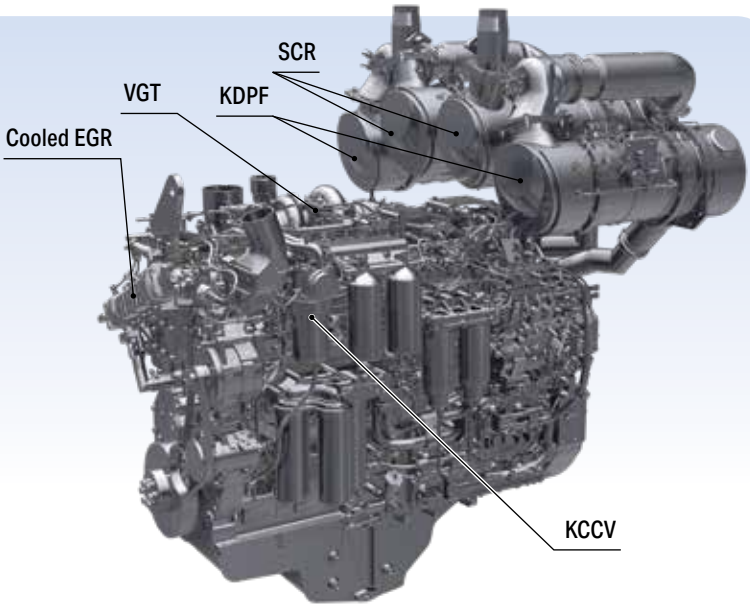
Advanced Joystick Steering System (AJSS) provides feedback so the machine steering angle is consistent with the steering joystick angle.

Operator identification system can track machine operation for up to 100 operators.

Productivity and ecology features

Komatsu's emission regulations-compliant engine

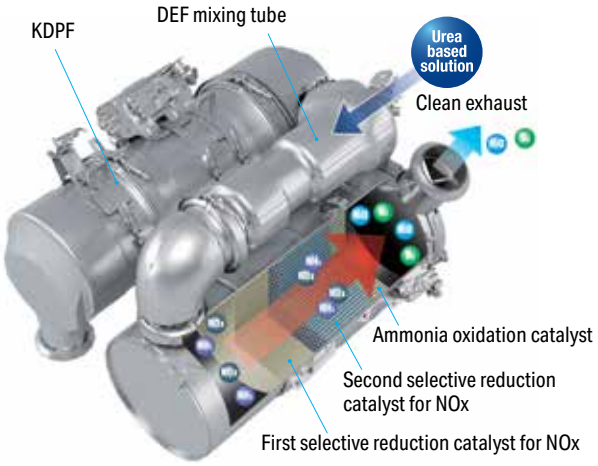
Regulations effective in 2014 require the reduction of NOx emissions to one-tenth or below from the preceding regulations. In addition to refining the Tier 4 Interim technologies, Komatsu has developed a new selective catalytic reduction (SCR) device in-house.



Technologies applied to the engine

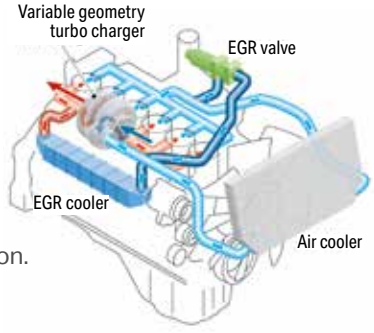
Heavy-duty aftertreatment system

This system combines a Komatsu Diesel Particulate Filter (KDPF) and selective catalytic reduction (SCR). The SCR NOx reduction system injects the correct amount of DEF at the proper rate, transforming NOx into nontoxic water (H_2O) and nitrogen gas (N_2).



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. While EGR gas flow is increased, by incorporating a high-efficiency and compactly designed cooling system, the system achieves a dynamic reduction of NOx, helping to reduce fuel consumption.

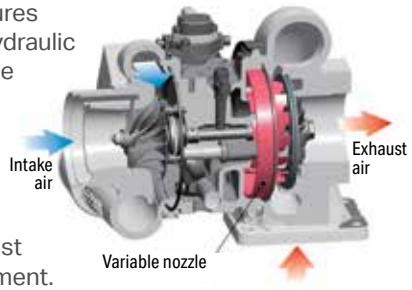


Electronic control system

The electronic control system performs high-speed processing of all signals from sensors installed in the vehicle and engine. This ensures total control of equipment. Engine condition information is displayed on the monitor inside the cab, providing necessary information to the operator. Additionally, managing the information via Komtrax Plus helps customers keep up with required maintenance.

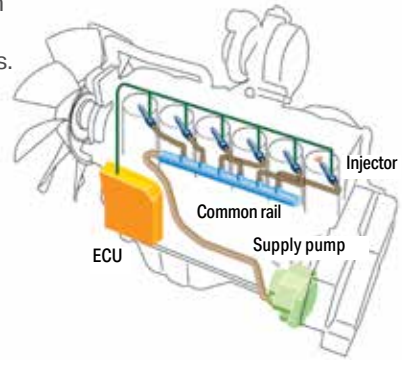
Variable geometry turbocharger (VGT) system

The VGT system features Komatsu-designed hydraulic technology for variable control of air flow and supplies optimal air according to load conditions. The upgraded version provides better exhaust temperature management.



Heavy-duty high-pressure common rail (HPCR) fuel injection system

The system is designed to deliver an optimal injection of high-pressure fuel, thereby achieving near complete combustion to reduce particulate matter (PM) emissions.



Low fuel consumption

By optimally controlling engine power and creating a high efficiency powertrain and hydraulic system, new features on the WA600-8 reduce fuel consumption, while enhancing fuel efficiency.

Fuel consumption reduced

by up to 13% in Economy mode

*Compared with the WA600-6, fuel consumption varies depending on working conditions.

Komatsu SmartLoader Logic

The WA600-8 provides Komatsu SmartLoader Logic, an engine control system. This technology creates the right amount of torque for each work phase. For example, engine torque needs are higher for digging in V-shape loading, but less 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.

Large-capacity torque converter

The Komatsu-designed powertrain has a large-capacity torque converter for optimum efficiency. The WA600-8 has greater productivity in V-shape loading applications because the increased tractive effort does not require full throttle. The improved hill climbing ability allows the WA600-8 to up-shift gears faster because of improved acceleration. The WA600-8 can achieve higher gear ranges and maintain higher travel speed when working in load-and-carry applications. In most applications, production is increased and fuel consumption is reduced, resulting in improved fuel efficiency.

Enhanced lock-up

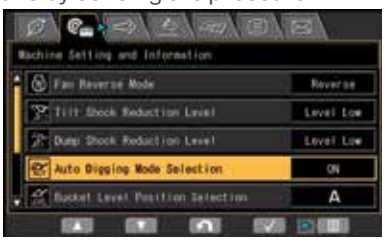
The Komatsu-designed torque converter with lock-up is standard on the WA600-8. The lock-up function activates in 2nd, 3rd and 4th gears. The lock-up torque converter is effective for both load-and-carry application and V-shape loading, which uses lower gears. Komatsu SmartLoader Logic reduces the clutch engagement shock of lock-up by controlling engine torque. The lock-up torque converter, combined with Komatsu SmartLoader Logic, results in low fuel consumption and high travel speeds in load-and-carry and even some cycle-loading applications.

Variable displacement piston pump and CLSS

The variable displacement piston pump combined with the closed-center load sensing system (CLSS) delivers hydraulic flow just as the job requires, preventing wasted hydraulic flow. Minimized loss contributes to better fuel economy.

Automatic digging system

New automatic digging system actuates the bucket tilt and lifting operations by sensing the pressure applied to the work equipment. This system can alleviate operator's fatigue and optimize bucket fill.



Redesigned komatsu bucket

The redesigned Komatsu bucket provides improved productivity and durability. The bucket has a new shape with a deeper heel, extended spill guard and inclined floor that make the bucket easier to fill, retain material better and allows improved visibility. Liner, Hensley® bolt-on teeth and lip segments, and double side guards are standard to accommodate the most demanding production cycles.



Two-mode engine power select system

This wheel loader offers two selectable engine power modes — Economy and Power.

- E Mode: This mode provides maximum fuel efficiency for general loading.
- P Mode: This mode power output for hard digging operation or hill climbing.



Power mode selector switch

Komatsu auto idle shutdown

In order to reduce idle time, Komatsu offers 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.



Operator environment



New operator seat with electronic pilot control (EPC) levers

A new heated and ventilated, air suspension seat provides enhanced support on rough roads and dampens machine vibrations, providing a more comfortable ride for the operator. An EPC lever console and advanced joystick steering lever are integrated in, and move with, the seat. The angle of the armrest is fully adjustable for optimum operator comfort.

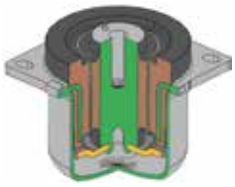


Advanced Joystick Steering System (AJSS)

Advanced Joystick Steering System allows steering and directional selection to be controlled by wrist and finger control. With the feedback function, the machine steering angle is exactly the same angle as the lever tilt angle.



Low-noise design



The spacious 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, and comfortable operating environment. The cab is pressurized to minimize dust intrusion.

Operator's ear noise level	76 dbA
Dynamic noise level (outside)	113 dbA

Integrated load meter

The Komatsu integrated load meter system displays payload data directly on the monitor panel. Payload data is also accessible remotely via Komtrax Plus.



Rearview monitoring system

The dedicated full-color monitor on the right side of the cab provides the operator with a rear view of the machine. This monitor can be always on or only on when the loader shifts into reverse. Visual guidelines can also be added for more convenience.





Automatic climate control system

The automatic climate control system allows the operator to easily and precisely set the cab temperature using the large LCD color monitor panel. The bi-level control function improves air flow and keeps the inside of the cab comfortable throughout the year.



Seat belt caution indicator

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





Large pillar-less cab with ROPS/FOPS

The ROPS/FOPS Cab is standard for operator's safety. A wide pillar-less flat glass window provides excellent front visibility. A heated rear window provides excellent rear visibility in cold weather conditions.

ROPS (ISO 3471) : Roll-over Protective Structure

FOPS (ISO 3449) : Falling Objects Protective Structure



Standard equipment



Lunchbox tray



Hot or cool box



① Auxiliary input (MP3 jack)
② 12 V outlets



① Steering lock lever
② Work equipment lock switch



Secondary engine shutdown switch



Parking brake switch

Operator environment

Automatic transmission

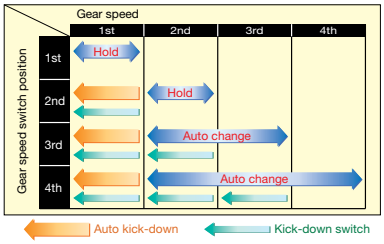
Automatic transmission with electronically controlled modulation valve automatically selects the proper gear speed, based on travel speed, engine speed and other travel conditions. The electronically controlled modulation valve system engages the clutch smoothly to prevent lags and shocks when shifting. This system provides efficient machine operation and a comfortable ride.

Mode select system

This operator-controlled system allows the operator to select manual shifting or automatic shifting.

Auto kick-down

Downshifting from second to first speed range can be done automatically without pushing the kick-down switch when beginning digging cycle. It automatically upshifts from first to second when the direction control lever is placed in reverse. This results in easy operation, increased rim pull for better bucket penetration and reduced cycle times for higher productivity. It can be changed to manual control by the kick-down switch setting through the monitor.



Hold switch

When in automatic shifting mode, the hold switch can be used to hold the speed range at 3rd or 4th gear position for uphill travel.

Remote bucket and boom positioner with shockless stop function

The operator can set the bucket angle and remote boom positioner from the cab. Once the positioner is set, the bucket is smoothly stopped at the desired position with no shock. Both the upper and lower boom positions are adjustable in the cab with the push of a button.

Work equipment shock reduction control

Stroke-end shock of the work equipment can be customized to reduce operator fatigue and accommodate different loading applications (i.e. loose material). There are four settings (Low, Medium, High and Off). The operator can easily choose one through the monitor panel.



Engine RPM set system with auto deceleration

Engine low idle RPM can be easily preset using a push-button switch. The system also provides auto deceleration for better fuel consumption.



1. Hold switch
2. Kick-down switch
3. Variable traction control dial
4. Auto shift selector switch
5. Remote positioner switch
6. RPM set switch

Variable traction control system

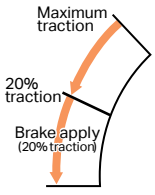
In limited traction situations, where the operator wants to avoid tire slippage (such as sandy or muddy ground operation) the operator can activate the variable traction control system. The optimum rim pull (F1) is controlled by adjusting the control knob from 100% to 20%.



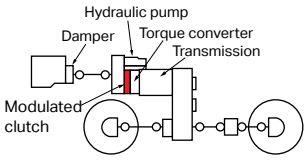
Modulated clutch system

The modulated clutch system controls the tractive effort with the left brake pedal from 100% to 20% of the converter output torque.

- Useful for smooth speed reduction when approaching dump trucks for loading
- Easy control of tire slippage
- Reduction of shocks in shifting from forward to reverse







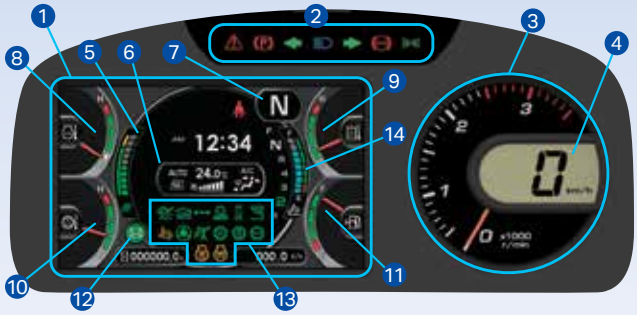
Electronically controlled suspension system

The 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. The electronically controlled suspension system is speed sensitive; this ensures that the boom cushioning function doesn't interfere with stationary digging.

Technology

High-resolution 7-inch color LCD monitor

The machine monitor displays various machine information and allows for various settings of the machine. The monitor is a 7-inch color LCD and displays maintenance information, operation records, ecology guidance records, etc. The switch panel is used to select various screens and the air conditioner control screen. By using the switch panel, you can display various user menus on the LCD screen and adjust machine settings.



Machine monitor

1. LCD unit
2. LED unit
3. Engine tachometer
4. Speedometer
5. Ecology gauge
6. Air conditioner display
7. Shift indicator
8. Engine coolant temperature gauge
9. Hydraulic oil temperature gauge
10. Torque converter oil temperature gauge
11. Fuel gauge
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 switch on the switch panel displays the user menu screen. The menus are grouped for each function and easy-to-understand icons enable intuitive machine operation.



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

Energy-saving operation ecology guidance

In order to support optimum operation, an easy-to-read "Ecology" gauge is displayed on the machine monitor screen. In addition, the following seven guidance messages are displayed for fuel-saving operation.

1) Excessive engine idling event
2) Hydraulic relief pressure event
3) Dragging of brake event
4) Excessive stepping on accelerator event
5) Recommendation of 4th gear
6) Recommendation of lock-up
7) Excessive digging event



Operator identification function

An operator identification code can be set for each operator and can be used to manage operational information through Komtrax. Data sent from Komtrax can be used to analyze operation status by operator, as well as by machine.



Machine monitor with troubleshooting function to minimize downtime

Various meters, gauges and warning functions are centrally arranged on the machine monitor. The monitor simplifies start-up inspection and promptly warns the operator with a lamp and buzzer if any abnormalities should occur. In addition, abnormalities are indicated in four levels to identify proper level and urgency of response.

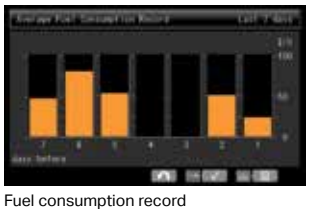


Operation records, fuel consumption history and ecology guidance records

The ecology guidance menu enables the operator to check fuel consumption history, operation and ecology guidance records by pushing a button. The records can be used to reduce overall fuel consumption.



Operation record



Fuel consumption record

Maintenance features





Side-opening engine doors

A wide access area makes daily maintenance easy. Large steps are provided on each side of the frame for added convenience.



Swing-out type cooling fan and wide core radiator

The cooling fan swings out for easy cleaning. The coolers feature wide spacing of the cooling fins to reduce clogging.



Reversing fan

The engine cooling fan is driven hydraulically. The reversible fan can be controlled through the monitor.



DEF tank

The DEF tank is located on the right-hand side of the machine at ground level for easy access. An external sight gauge aids in preventing overflow and spillage while refilling.



Battery disconnect switch

The battery disconnect switch is located on the left-hand side of the machine at ground level. This can be used to disconnect power when performing service work. A padlock can be installed to lockout the machine.



Engine compartment

The WA600-8 engine compartment is configured for easy serviceability. Special attention was paid to the location of maintenance items, such as the filters, dipsticks and oil fill locations. The aftertreatment devices are also easy to access.



Rear full fenders

Rear full fenders with steps and handrails are standard at both sides of the machine. The fenders protect the machine from material that may be thrown by the tires and give the technician easy access to the engine compartment.



Modular radiator core system

The modular radiator core can be removed without removing the entire radiator assembly.



Air cab filter

The inside and outside cab air filters can be replaced easily without the need for tools.


Inside air filter


Outside air filter

LED tail lights

LED brake lights and LED reverse lights provide long bulb life.



Maintenance information

"Maintenance time caution lamp" display

When the remaining time to maintenance becomes less than 30 hours*, the maintenance time monitor appears. Pressing the menu switch displays the maintenance screen.

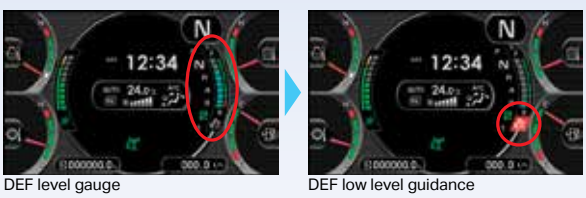


Maintenance screen

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

DEF level and refill timing

The DEF level gauge is displayed continuously on the monitor screen. In addition, when the refill timing is reached, the DEF low level guidance appears as a pop-up display to inform the operator in real time.



DEF level gauge

DEF low level guidance

Komatsu helps you bring it all together

Get the most out of your fleet on My Komatsu

We've designed a portal that makes it easy to collect, visualize and monitor data for both Komatsu machines and other OEM machines. My Komatsu also gives you one easy source for accessing manuals and purchasing parts for your machines.

- Quickly collect, view and manage intuitive data displays in one location
- Help keep costs under control
- Benchmark machine performance and track fuel consumption
- Monitor for theft and unauthorized use
- Receive timely maintenance alerts



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Data
Telematics data is generated by on-machine technology.



Storage
Telematics data flows into data storage. ISO 15143-3 (AEMP 2.0) facilitates the extraction and raw data to your choice of databases.



Connection
Choose how you want to connect and view your data. Go to multiple systems, send to a third party, or easily connect it all through My Komatsu.



Analytics
My Komatsu connects telematics data from Komatsu and non-Komatsu equipment and creates powerful analytics dashboard views.

mykomatsu.komatsu

Connect your machines to Smart Construction to optimize your job sites

Your projects depend on robust data that is easily shared, replicated, updated and — most important of all — correct.



Take a step toward a digital transformation of your job sites with Komatsu's suite of Smart Construction solutions, where advanced automation and integrated technologies intersect to help you:

- Track costs of labor, machines and materials
- Receive real-time insights straight from the field
- Enhance workflow with fully integrated data
- Visualize your data for actionable results
- Quickly map your job site
- Attract and retain talent



Not sure where to begin? Komatsu-certified solution experts are available on the phone, online or at your job site to help you navigate and thrive along your digitalization journey.

komatsu.com/smart-construction

Komatsu maintenance and repair programs

Simplify the complexities of machine owning and operating costs and enhance the value of your equipment with Komatsu's tiered maintenance and repair offerings. Manage your active coverage programs through the My Komatsu customer interface and take advantage of attractive financing options.

- Solutions that fit your needs and ease your mind
- Fixed maintenance and repair costs for the life of the contract
- National coverage



Komatsu Care Complimentary

Complimentary maintenance

Our complimentary scheduled maintenance program for the first 36 months or 1,500 hours, whichever occurs first.

Komatsu Care Plus

Extended maintenance

A continuation of the Komatsu Care program. Along with regularly scheduled maintenance and national distributor coverage, you get a variety of added benefits.

Komatsu Care Plus II

Extended maintenance and repair

Everything in the Komatsu Care Plus program bundled with comprehensive repair coverage for qualifying repairs.

Komatsu Care Plus III

Extended maintenance, repair and consumables

A comprehensive program that simplifies your equipment's total cost of ownership with a fixed cost per hour for qualifying repairs and replacements.

Komatsu Care Advantage Warranty

Extended warranty

Protect your equipment in the event a covered component fails due to a defect in material or workmanship. Repairs are performed by Komatsu-trained experts using Komatsu genuine parts.

komatsu.com/maintenance-repair

Komatsu Financial

Financial services built for your business success.

komatsu.com/financing

Komatsu Genuine Parts

Engineered to help extend the life of your Komatsu machine. Now available on the My Komatsu parts store.

komatsu.com/parts

Komatsu training

Comprehensive training support — virtually, at our facility or where most convenient.

komatsu.com/training



General specification

Engine*

Model		Komatsu SAA6D170E-7*
Type		Water-cooled, 4-cycle
Aspiration		Variable geometry turbocharged, aftercooled, cooled EGR
Number of cylinders		6
Bore x stroke		170 mm x 170 mm 6.69" x 6.69"
Piston displacement		23.15 L 1,413 in^3
Horsepower		
SAE J1995	Gross	396 kW 530 HP
ISO 9249 / SAE J1349	Net	395 kW 529 HP
	Rated rpm	1,800
Fan drive method for radiator cooling		Hydraulic
Governor		All-speed, electronic
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.

Hydraulic system

Steering system		
Hydraulic pump		Piston type
Capacity		163 L/min 43.1 gal/min at rated rpm
Relief valve setting		34.3 MPa 350 kg/cm^2 4,980 psi
Hydraulic cylinders		
Type		Double-acting, piston type
Number of cylinders		2
Bore x stroke		100 mm x 486 mm 4.5" x 20"
Loader control		
Hydraulic pump		Piston pump
Capacity		239 + 239 L/min 63.1 + 63.1 gal/min at rated rpm
Relief valve settings		34.3 MPa 350 kg/cm^2 4,980 psi
Hydraulic cylinders		
Type		Double-acting, piston type
Number of cylinders (bore x stroke)		
	Boom cylinder	2-200 mm x 1,067 mm 7.9" x 42"
	Bucket cylinder	1-225 mm x 776 mm 8.9" x 30.6"
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	8.7 s
	Dump	2.3 s
	Lower (empty)	4.1 s

Brakes

Service brakes	Hydraulically actuated, wet multiple-disc brakes actuate on four wheels
Parking brake	Wet multiple-disc brake
Emergency brake	One of dual service brake circuits is commonly used

Steering system

Type	Articulated type, fully hydraulic power steering
Steering angle	43° each direction
Minimum turning radius at the center of outside tire	7,075 mm 23' 3"

Transmission

Torque converter	Three-elements, one-stage, two-phase
Transmission	Automatic full-powershift, planetary type

Travel speed	Forward*	Reverse*
1st	6.7 km/h 4.2 mph	7.3 km/h 4.5 mph
2nd	11.7 km/h 7.3 mph (12.4 km/h 7.7 mph)	12.8 km/h 8.0 mph (13.5 km/h 8.4 mph)
3rd	20.3 km/h 12.6 mph (21.7 km/h 13.5 mph)	22.0 km/h 13.7 mph (23.7 km/h 14.7 mph)
4th	33.8 km/h 21.0 mph (37.7 km/h 23.4 mph)	37.0 km/h 23.0 mph (41.0 km/h 25.5 mph)

*P-mode Measured with 35/65-33 tires (): Lock-up clutch ON

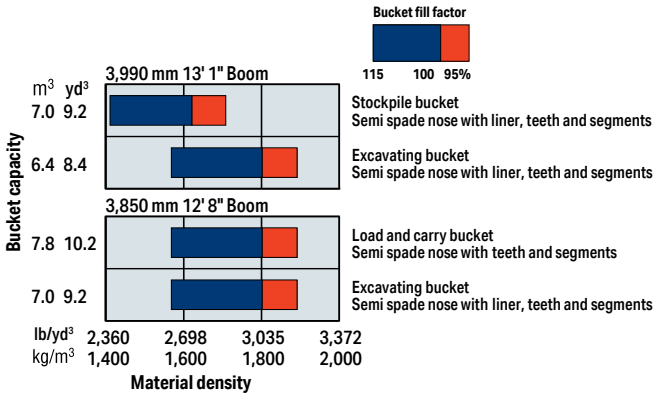
Axles and final drives

Drive system	Four-wheel drive
Front	Fixed, full-floating
Rear	Center-pin support, full-floating, 22° total oscillation
Reduction gear	Spiral bevel gear
Differential gear	Conventional type
Final reduction gear	Planetary gear, single reduction

Service refill capacities

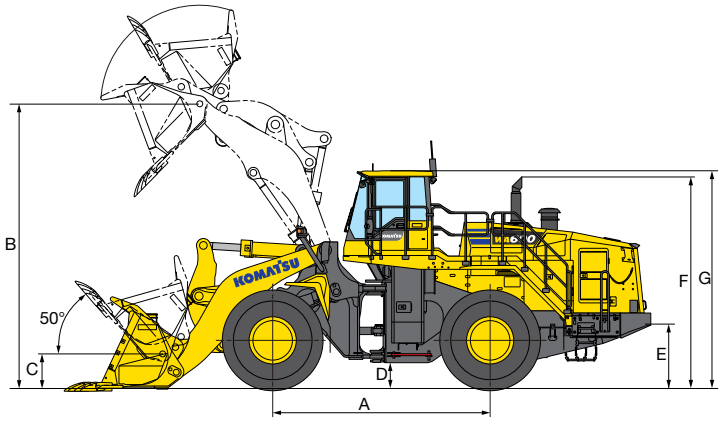
Cooling system	150 L	39.6 US gal
Fuel tank	718 L	189.7 US gal
Engine	86 L	22.7 US gal
Hydraulic system	443 L	117.0 US gal
Axle front	185 L	48.9 US gal
rear	193 L	51.0 US gal
Torque converter and transmission	78 L	20.6 US gal
DEF tank	39.7 L	10.5 US gal

Bucket selection guide



Dimensions

	Tread width (center of tread to center of tread)		2,650 mm	8'8"
	Width over tires		3,590 mm	11'9"
A	Wheelbase		4,500 mm	14'9"
B	Hinge pin height,	3,850 mm boom	5,665 mm	18'7"
	max. height	3,990 mm boom	5,885 mm	19'4"
C	Hinge pin height,	3,850 mm boom	670 mm	2'2"
	carry position	3,990 mm boom	720 mm	2'4"
D	Ground clearance		525 mm	1'9"
E	Hitch height		1,320 mm	4'4"
F	Overall height, top of the stack		4,375 mm	14'4"
G	Overall height, ROPS cab		4,500 mm	14'9"



Measured with 35/65-33-36PR (L-4) tires, ROPS/FOPS cab

	3,990 mm 13' 1" Boom		3,850 mm 12' 8" Boom	
	Excavating bucket	Stockpile bucket	Excavating bucket	Load and carry bucket
	Spade nose teeth and BSE *1	Spade nose teeth and BSE *1	Spade nose teeth and BSE *1	Spade nose teeth and BSE *1
Bucket capacity: heaped	6.4 m^3 8.4 yd^3	7.0 m^3 9.2 yd^3	7.0 m^3 9.2 yd^3	7.8 m^3 10.2 yd^3
struck	5.3 m^3 6.9 yd^3	5.8 m^3 7.6 yd^3	5.8 m^3 7.6 yd^3	6.6 m^3 8.6 yd^3
Bucket width	3,805 mm 12'6"	3,805 mm 12'6"	3,805 mm 12'6"	3,805 mm 12'6"
Bucket weight	5,975 kg 13,173 lb	6,152 kg 13,563 lb	6,152 kg 13,563 lb	5,791 kg 12,767 lb
Dumping clearance, max. height and 45° dump angle* (H)	3,965 mm 13'0"	3,915 mm 12'10"	3,700 mm 12'2"	3,615 mm 11'10"
Reach at max. height and 45° dump angle*	1,835 mm 6'0"	1,885 mm 6'2"	1,915 mm 6'3"	2,000 mm 6'7"
Reach at 2,130 mm 7' clearance and 45° dump angle	3,030 mm 9'11"	3,065 mm 10'0"	2,920 mm 9'7"	2,970 mm 9'9"
Reach with arm horizontal and bucket level	4,175 mm 13'8"	4,245 mm 13'11"	4,105 mm 13'6"	4,225 mm 13'10"
Operating height (fully raised)	7,925 mm 26'0"	8,040 mm 26'5"	7,280 mm 23'11"	7,885 mm 25'10"
Overall length (bucket on ground)	12,145 mm 39'10"	12,215 mm 40'1"	12,030 mm 39'6"	12,150 mm 39'10"
Loader clearance circle (bucket at carry, outside corner of bucket)	17,050 mm 55'11"	17,090 mm 56'1"	16,770 mm 55'0"	16,990 mm 55'9"
Digging depth: 0°	130 mm 5"	130 mm 5"	130 mm 5"	130 mm 5"
10°	530 mm 1'9"	540 mm 1'9"	540 mm 1'9"	560 mm 1'10"
Static tipping load: straight	38,220 kg 84,261 lbs.	38,036 kg 83,855 lbs.	37,845 kg 83,434 lbs.	43,265 kg 95,383 lbs.
40° full turn	32,675 kg 72,036 lbs.	32,520 kg 71,964 lbs.	32,805 kg 72,323 lbs.	37,080 kg 81,747 lbs.
Breakout force	39,500 kgf 87,083 lbs.	38,200 kgf 84,217 lbs.	38,600 kgf 85,098 lbs.	36,200 kgf 79,807 lbs.
Operating weight	56,280 kg 124,076 lbs.	56,460 kg 124,473 lbs.	55,400 kg 122,136 lbs.	57,460 kg 126,678 lbs.

*1 Bolt-on segment edges. *2 At the end of the tooth

All dimensions, weights, and performance values based on SAE J732c and J742b standards.
Static tipping load, operating weight and overall length shown include lubricant, coolant, full fuel tank, ROPS cab, and operator.
Machine stability and operating weight affected by counterweight, tire size, and other attachments.
Apply the following weight changes to operating weight, static tipping load and overall length.

Weight changes

Tires or attachments	Operating weight		Tipping load straight				Tipping load full turn				Width over tires		Ground clearance		Change in vertical dimensions	
			3990 mm Boom		3850 mm Boom		3990 mm Boom		3850 mm Boom							
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	mm	ft in	mm	ft in	mm	ft in
35/65-33-36PR(L-5)	+1000	+2,204	+715	+1,576	+740	+1,631	+620	+1,367	+640	+1,411	3590	11'9"	525	1'9"	0	0
35/65-33-42PR(L-4)	+20	+44	+10	+22	+10	+22	+10	+22	+10	+22	3605	11'10"	525	1'9"	0	0
35/65-R33 (L-4)	-780	-1,720	-565	-1,246	-585	-1,290	-485	-1,069	-500	-1,102	3615	11'10"	460	1'6"	-65	-3"
35/65-R33 (L-5)	-235	-518	-175	-386	-180	-397	-150	-331	-150	-331	3615	11'10"	460	1'6"	-65	-3"

Equipment

Engine	
Air cleaner, double element with dust indicator	●
Alternator, 24 V/140 A	●
Batteries, large capacity, 2 x 12 V/200 Ah	●
Engine, Komatsu SAA6D170E-7	●
KDPF, SCR	●
Starting motor, 24 V x 2/11.0 kW	●
Cab	
Two x 12 VDC electrical outlets	●
Advanced joystick steering system	●
Auto air conditioner/heater	●
AM/FM radio with AUX input jack	●
Ashtray	●
Blinds, front and rear with roll curtain	●
Cigarette lighter	●
Color multimonitor	●
Cup holder	●
Electronic pilot control fingertip control	●
Floor mat	●
Front wiper (with washer and intermittent)	●
Rear defroster (electric)	●
Rear window washer and wiper	●
ROPS/FOPS (ISO 3471/ISO 3449) cab	●
Seat, air suspension, reclining, heated/ventilated	●
Seat belt (three-point)	●
Space for lunchbox	●
Starter receptacle	●
Sun visor	●
Lighting system	
Access stair lamp, LH side	●
Back-up lights, LED	●
Directional signal	●
Hazard lamps	●
Head lamps, LH and RH side	●
Front work lamps, LH and RH side	●
Rear work lamps, LH and RH side	●
Stop and tail lamps, LED and turn signal lamps	●
Safety equipment	
Anchor points, tie off type (ISO 14567)	●
Back-up alarm	●
Hand rails for platform	●
Horn, electric	●
Parking brake, electric	●
Rearview mirrors	●
Rearview monitoring system	●
Secondary engine shutdown switch	●
Service brakes, wet disc type	●

Rims	
Rims for 35/65-33 tubeless tires, set of 4	●
Other	
Two-spool valve for boom and bucket controls	●
3,990 mm boom	●
Additional counterweight (850 kg)	●
Automatic digging system	●
Automatic shift transmission	●
Battery disconnect switch	●
Brake cooling system	●
Circuit breaker	●
Counterweight, standard	●
Ecology guidance, ecology gauge	●
Electronically controlled suspension system	●
Engine RPM set system	●
Engine shut-off system, electric	●
Front fenders	●
Fuel pre-filter with water separator	●
Hydraulic-driven fan with reverse rotation	●
Inline filters, steering and hydraulic	●
Integrated load meter	●
Komatsu auto idle shutdown	●
Komatsu SmartLoader Logic	●
Komtrax with Komtrax Plus function and wireless bridge	●
Lift cylinders and bucket cylinder	●
Lock-up clutch torque converter	●
Modulation clutch	●
Radiator, modular core	●
Radiator mask, swing out	●
Rear access stair with handrail, RH side	●
Remote boom positioner, in-cab adjustable	●
Remote bucket positioner, in-cab adjustable, three positions	●
Transmission, four forward and four reverse speeds	●
Work equipment shock reduction control	●
Optional equipment	
Three-spool valve with lever and piping	○
3,850 mm boom	○
Fast-fill fuel system	○
Limited slip differential (F&R)	○
Load-and-carry specification	○
Log loader specification	○
Powertrain guard	○
Secondary steering (ISO 5010)	○
Steering wheel, tiltable, telescopic	○
Various bucket options	○
Various tire options, radial and bias	○

Standard equipment	●
Optional equipment	○

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