KOMATSU

WA500-8

Tier 4 Final Engine

WA500

Wheel loader

Photos may include optional equipment

NET HORSEPOWER
353 HP @ 1900 rpm
263 kW @ 1900 rpm

OPERATING WEIGHT
78,272 - 78,782 lbs.
35,504 - 35,735 kg

BUCKET CAPACITY
5.9 - 8.2 yd^3
4.5 - 6.3 m^3

WALK-AROUND

Photos may include optional equipment.

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353 HP @ 1900 rpm
263 kW @ 1900 rpm

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78,272 - 78,782 lbs.
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5.9 – 8.2 yd³
4.5 – 6.3 m³

KOMATSU CARE®

PERFORMANCE, DURABILITY AND FUEL ECONOMY

Large capacity torque converter with lock-up provides:
- Quick acceleration
- Lock-up in 2nd, 3rd and 4th gear

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

A powerful Komatsu SAA6D140E-7 engine provides a net output of 264 kW **357 HP** with up to 5% improved fuel consumption. This engine is EPA Tier 4 Final emissions certified.

Komatsu Variable Geometry Turbocharger (KVGT) 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.

Fluid neutral or better
Consumption of fuel and diesel exhaust fluid (DEF) is less than or equivalent to the amount of fuel consumed by the prior model.

Cooling
- Hydraulically driven, variable-speed fan
- Auto-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.

Transmission Mode Select System (3 modes) allows shifting mode to be matched more efficiently to varying work applications.

Enhanced working environment:
- New high capacity, heated, air suspension seat,
- Seat mounted EPC controls with F-N-R switch
- Two 12V power outlets

Redesigned Komatsu bucket is larger capacity, fills more easily, and retains material better for increased productivity.

New front fender is changed from steel to composite material for resistance to scratches and impact.

Full rear fenders (standard) swing open for easy access to maintenance points.

Large LCD color monitor panel:
- 7" high resolution, multi-color screen is easy to read
- Integrated load meter system displays payload data directly on the monitor panel
- Includes an ecology gauge and provides "Ecology 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 Auto Idle Shutdown helps reduce idle time and operating costs.

External mounting of engine air filter (above rear LH fender) provides easy access for maintenance.

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

Battery disconnect switch allows a technician to disconnect the power supply before servicing the machine.

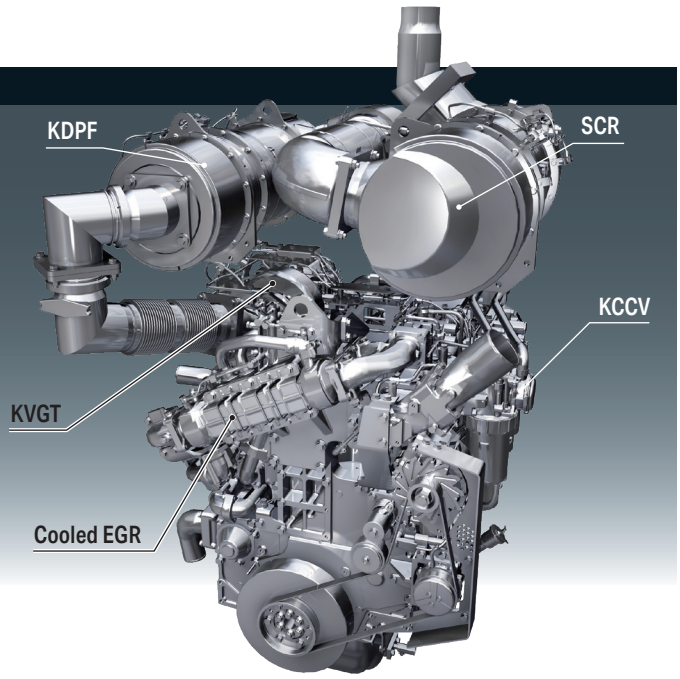
Operator Identification System can track machine operation for up to 100 operators.

PERFORMANCE FEATURES

KOMATSU NEW ENGINE TECHNOLOGIES

New Tier 4 Final Engine

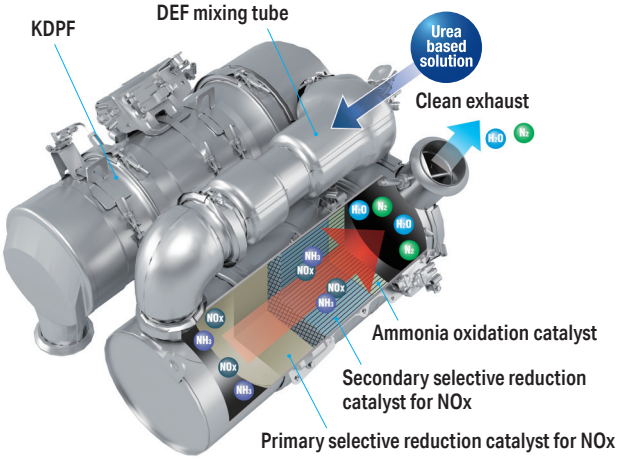
The Komatsu SAA6D140E-7 engine is EPA Tier 4 Final emissions certified and provides exceptional performance, while reducing fuel consumption. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces nitrogen oxides (NOx) by more than 80%, when compared to Tier 4 interim levels.



Technologies Applied to New Engine

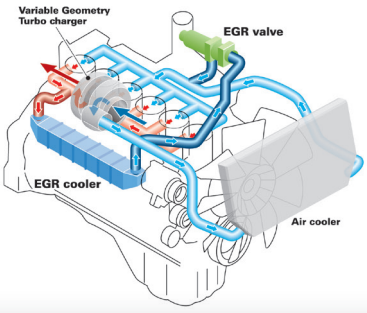
Heavy-Duty Aftertreatment System

This new system combines a Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR). The SCR NOx reduction system injects the correct amount of Diesel Exhaust Fluid (DEF) at the proper rate, thereby decomposing NOx into non-toxic water vapor (H_2O) and nitrogen gas (N_2).



Heavy-Duty Cooled Exhaust Gas Recirculation (EGR) System

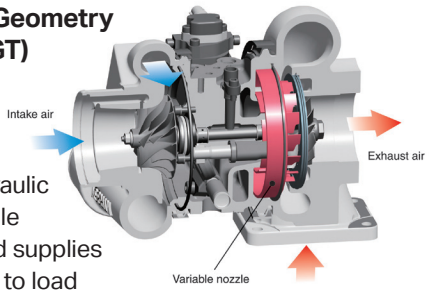
The system recirculates a portion of exhaust gas into the air intake and lowers combustion temperatures, thereby reducing NOx emissions. EGR gas flow has been decreased for Tier 4 Final with the addition of SCR technology. The system dramatically reduces NOx, while helping cut fuel consumption below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



Advanced Electronic Control System

The electronic control system performs high-speed processing of all signals from sensors installed in the vehicle, providing 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 helps customers keep up with required maintenance.

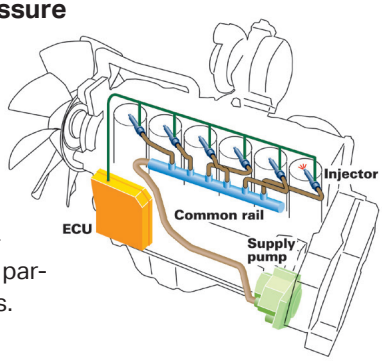
Komatsu Variable Geometry Turbocharger (KVGT) System



The KVGT system features proven Komatsu design 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 specifically designed to achieve the optimal injection of fuel for near- complete combustion, which helps reduce particulate matter emissions.



Redesigned Komatsu Bucket

The redesigned Komatsu bucket provides improved productivity. The bucket has a new shape, with a deeper heel and inclined floor that make the bucket easier to fill and retain material. The capacity of the standard bucket is also increased.

Komatsu SmartLoader Logic

The WA500-8 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.

Large-capacity Torque Converter

The Komatsu-designed power train features a large capacity torque converter for optimum efficiency. The WA500-8 has improved efficiency in V-shape loading applications because the increased tractive effort does not require full throttle. The large capacity torque converter allows the loader to up-shift gears faster for improved acceleration and hill climbing ability. The WA500-8 achieves high gear ranges and maintains high 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 WA500-8. The lock-up function activates in 2nd, 3rd and 4th gears. The lock-up torque converter is effective for both load and carry applications and V-shape loading in 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 V-cycle loading applications.

Dual-mode Engine Power Select System

This wheel loader offers two selectable operating modes — Power (P) and Economy (E).

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

1 Dual mode engine power selection switch
2 Transmission shift mode selector switch
3 Torque converter lock-up switch

Automatic Transmission with Mode Select System

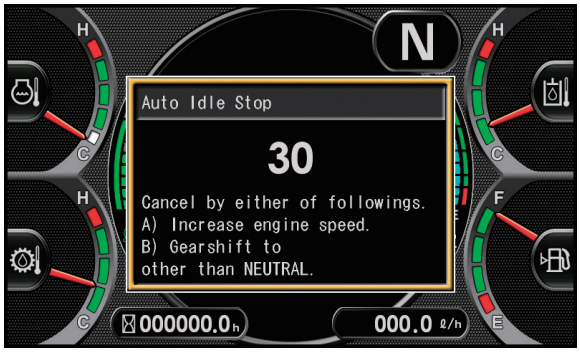
This operator-controlled system allows the operator to select manual shifting or two levels of automatic shifting (low, and high). Auto L mode is for fuel-saving operation, with the gear-shift timing set at lower speeds than Auto H mode.

Closed-Center Load Sensing System (CLSS) Variable Displacement Piston Pump

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.

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 is also possible for the operator to deactivate this function.



OPERATOR ENVIRONMENT

New Operator Seat with Electronic Pilot Control (EPC) Levers

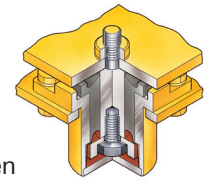
A new standard, heated, air-suspension seat provides enhanced support on rough roads and dampens machine vibrations, providing a more comfortable ride for the operator. An EPC-lever console is built into, and moves with, the seat. The angle of the armrest is fully adjustable for optimum operator comfort. A secondary F-N-R switch is incorporated in to work equipment lever configurations.

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 : 72 dB(A)
Dynamic noise level (outside): 109 dB(A)



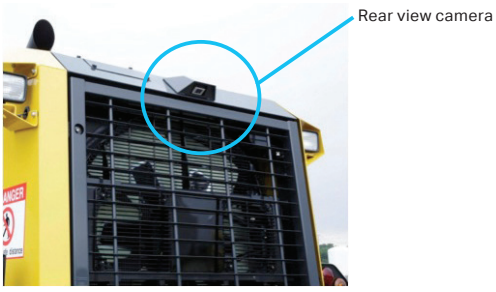
The large ROPS/FOPS cab is mounted with Komatsu's unique viscous mounts. The low-noise engine, hydraulically-driven fan, and hydraulic pumps are mounted with rubber cushions. The cab sealing is improved to provide a quiet, low-vibration, low dust and comfortable operating environment.

Mono-lever with Integrated 3rd Spool Control (Optional)

The mono-lever allows the operator to control work equipment and the optional 3rd spool for the thumb increases ease of operation. The 3rd spool valve operates in either continuous or proportional flow modes. The mono-lever also includes a F-N-R switch.

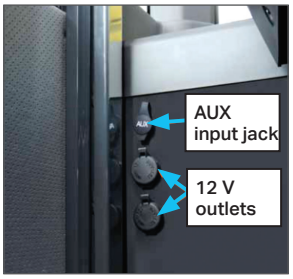
Standard Rear View Monitoring System

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. Guidelines provide the operator with visual cues for the width of the loader.



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 front of the right-hand console.



Engine Shutdown Secondary Switch

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

WORKING ENVIRONMENT

Easy Entry and Exit

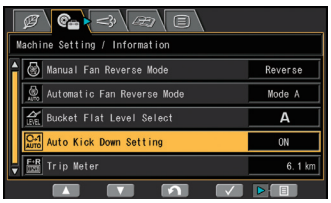
The WA500-8 has an inclined ladder with wide steps and hand holds to ease entry and exit from the cab.

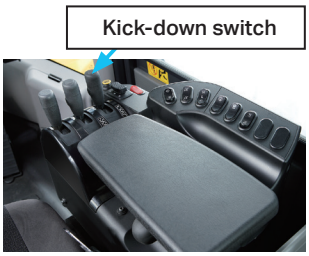
Remote Bucket and Boom Positioner

The operator can set the bucket angle and remote boom positioner from the cab. Both upper and lower boom limits are adjustable in the cab with the push of a button. The bucket positioner can store three horizontal settings, allowing the operator to easily change attachments without resetting the bucket level position.

Automatic Kick-down

The WA500-8 has the ability to automatically downshift to F1, eliminating the need for the operator to manually downshift when entering the pile. This can be activated through the monitor.





Electronically Controlled Suspension System

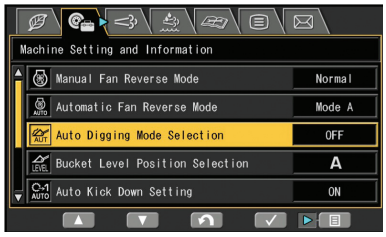
The electronically controlled suspension system, or ride control system, uses an accumulator to minimize boom arm shock, giving the operator a much smoother ride. This reduces operator fatigue and material spillage during load and carry operations. The electronically controlled suspension system is speed sensitive, meaning the boom won't move during low speed digging. This feature is standard on the WA500-8.

Mono Lever With Integrated 3rd Spool Control (option)

The mono lever option has been designed for improved ergonomics and comfort. When equipped with the optional 3rd spool valve, it allows the operator to control the 3rd spool with the thumb. The 3rd spool valve can be operated in either continuous or proportional flow modes. The mono lever also includes an F-N-R switch.

Automatic Digging System

The 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 load. This system is activated through the LCD color monitor panel.



High Resolution 7-inch Color LCD Monitor

The 7-inch color TFT-LCD monitor can display maintenance information, operational records, ecology-guidance records and other machine data. The switch panel is used to select screens and adjust air conditioner and environmental settings.

Machine monitor

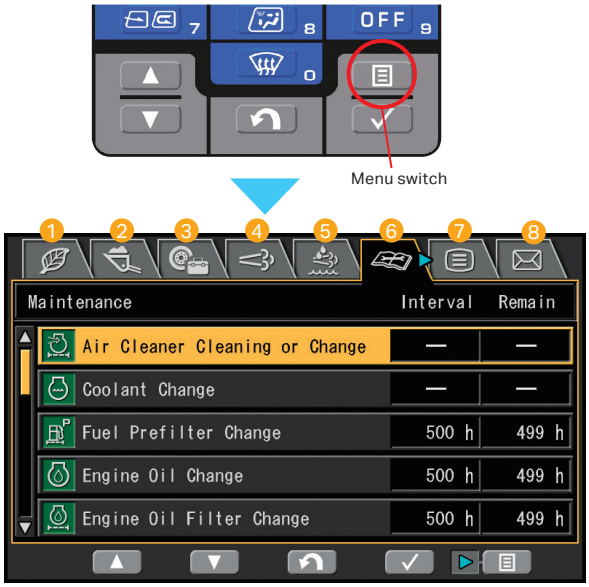
1. LCD unit
2. LED unit
3. Engine tachometer
4. Speedometer
5. Ecology gauge
6. Air conditioner display
7. Shift indicator
8. Engine coolant temperature gauge
9. Hydraulic oil temperature gauge
10. Torque converter oil temperature gauge
11. Fuel gauge
12. Message pilot lamp
13. Pilot lamps
14. DEF level gauge

Switch panel

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

Visual User Menu

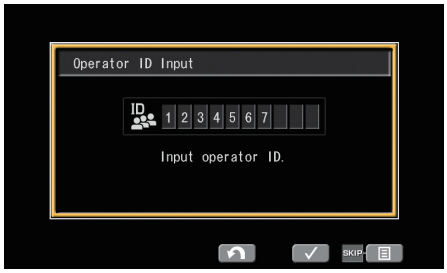
Pressing the menu button on the switch panel accesses the user-menu screen. The menus are grouped by function, with easy-to-understand, intuitive icons for easier machine operation.



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

Side-opening Gull-wing Engine Doors

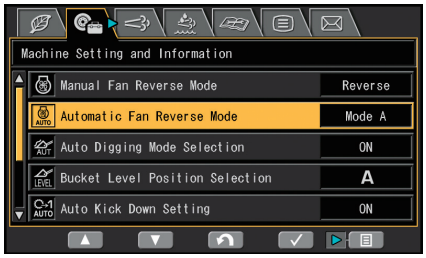
The large, gull-wing-type engine doors require minimal effort to open and close, thanks to gas assisted struts. The doors make access and daily maintenance easy. Large steps on each side of the frame also enhance accessibility.

Swing-Out Type Cooling Fan and Wider Core Radiator

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

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.



DEF Tank

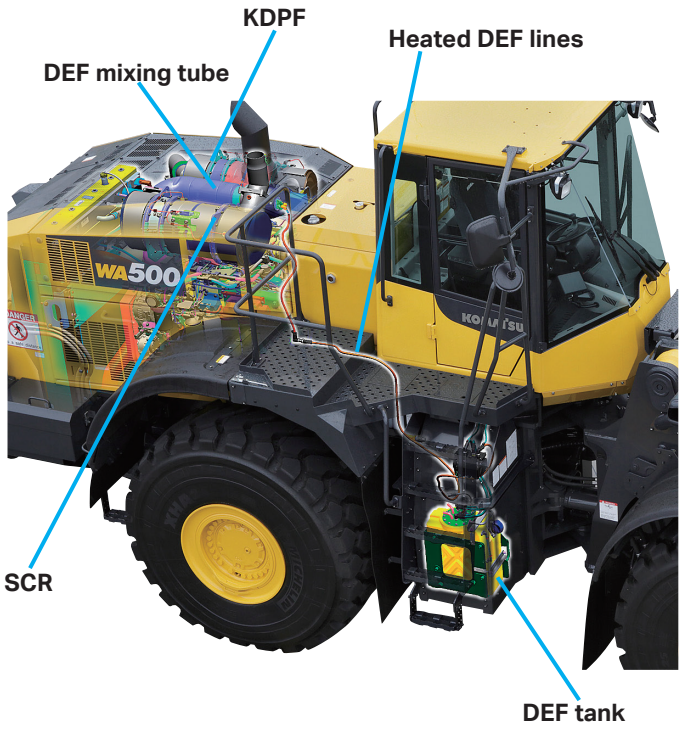
The DEF tank is easily accessed behind the RH side ladder. A convenient external sight gauge helps prevent overflow and spillage while refilling.

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 WA500-8 engine compartment is designed for easy serviceability. Placement of maintenance items, such as filters, dipsticks, and oil-fill locations are laid out for easy-to-reach, ground-level access.



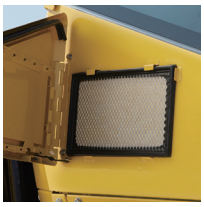
Rear Full Fenders (Standard)

Full rear fenders are standard on the WA500-8. The plastic rear fenders open outward, keeping the force required to open them low, even when covered with mud or snow. The fenders swing out of the way to give technicians easy access to the engine compartment. Mud flaps are also included on the fenders for additional machine protection.

Cab Air Filter

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


Inside air filter


Outside air filter

LED Taillights

LED brake lights and reverse lights provide long bulb life, and excellent visibility.

Engine Air Cleaner

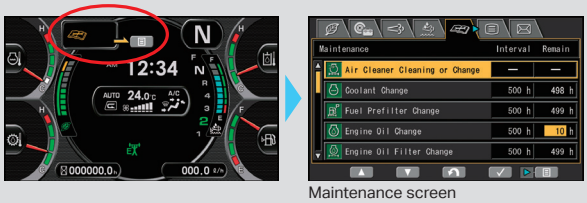
The air cleaner is located on the left-side platform for easy access.

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.

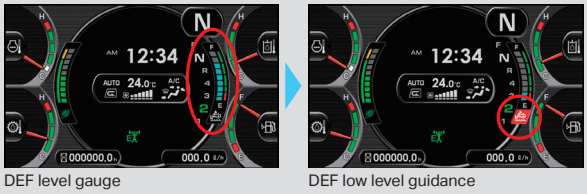
* : The setting can be changed within the range between 10 and 200 hours.



Maintenance screen

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.



DEF level gauge
DEF low level guidance

KOMATSU PARTS AND SERVICE SUPPORT

KOMATSU CARE®

Program Includes:

*The WA500-8 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 and Service
- Increased Uptime & Efficiency
- Factory Certified Technicians Performing Work
- Cost of Ownership Savings
- Transferable Upon Resale

Complimentary KDPF exchange

The WA500-8 comes standard with one complimentary Komatsu Diesel Particulate Filter (KDPF) exchange unit for the first five years or 4,500 hours, whichever occurs first. End user must have an authorized Komatsu distributor perform the removal and installation of the KDPF.

Complimentary SCR system maintenance

The WA500-8 also includes one factory-suggested service of the selective catalytic reduction (SCR) and diesel exhaust fluid (DEF) system during the first five years or 4,500 hours, whichever occurs first. End user must have an authorized Komatsu distributor perform the SCR maintenance.

Komatsu CARE® – Advantage 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

* Certain exclusions and limitations apply. Refer to the customer certificate for complete program details and eligibility.

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 **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 SAA6D140E-7*
Type ..... Water-cooled, 4-cycle
Aspiration ..... Variable geometry turbo-charged, after-cooled, cooled EGR
Number of cylinders 6
Bore ..... 140 mm **5.51"**
Stroke ..... 165 mm **6.50"**
Piston displacement ..... 15.24 ltr **930 in³**
Governor ..... All-speed, electronic
Horsepower:
SAE J1995 ..... Gross 266 kW **357 HP**
ISO 9249 / SAE J1349 ..... Net 263 kW **353 HP**
Rated rpm ..... 1900 rpm
Fan drive method for radiator cooling ..... Hydraulic
Fuel system ..... Direct injection
Lubrication system:
Method ..... Gear pump, force-lubrication
Filter ..... Full-flow type
Air cleaner ..... Dry type with double elements and dust evacuator, plus dust indicator

*EPA Tier 4 Final emissions certified

TRANSMISSION

Torque converter ..... three-elements, one-stage, two-phase
Transmission ..... Full-powershift, planetary type

Travel speed	Forward*	Reverse*
1st	7.5 km/h **4.7 mph**	8.5 km/h **5.3 mph**
2nd	12.9 km/h **8.0 mph** (13.1 km/h **8.1 mph**)	12.9 km/h **8.0 mph** (13.0 km/h **8.1 mph**)
3rd	22.2 km/h **13.8 mph** (23.7 km/h **14.7 mph**)	24.7 km/h **15.3 mph** (26.6 km/h **16.5 mph**)
4th	35.5 km/h **22.1 mph** (37.3 km/h **23.2 mph**)	38.0 km/h **23.6 mph** (38.0 km/h **23.6 mph**)

*P-mode Measured with 29.5-25 tires ( ): Lock-up clutch ON

AXLES AND FINAL DRIVES

Drive system ..... Four-wheel drive
Front ..... Fixed, full-floating
Rear ..... Center-pin support, full-floating, 20° total oscillation
Reduction gear ..... Spiral bevel gear
Differential gear ..... Conventional type
Final reduction gear ..... Planetary gear, single reduction

BRAKES

Service brakes ..... Hydraulically actuated, wet disc brakes actuate on four wheels
Parking brake ..... Wet disc brake
Emergency brake ..... Parking brake is commonly used

STEERING SYSTEM

Type ..... Articulated type, fully-hydraulic power steering
Steering angle ..... 36° (40° to max end stop)
Minimum turning radius at the center of outside tire ..... 7050 mm **23' 2"**

HYDRAULIC SYSTEM

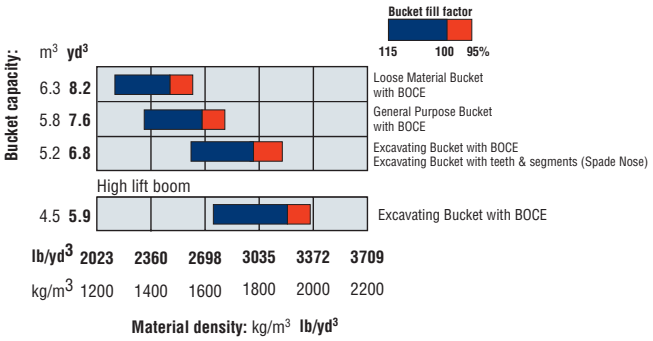
Steering system:
Hydraulic pump ..... Piston type
Capacity ..... 120 ltr/min **31.7 U.S. gal/min** at rated rpm
Relief valve setting ..... 24.5 MPa 250 kgf/cm² **3,555 psi**
Hydraulic cylinders:
Type ..... Double-acting, piston type
Number of cylinders 2
Bore x stroke ..... 100 mm x 486 mm **3.9" x 19.1"**

Loader control:
Hydraulic pump ..... Piston pump
Capacity ..... 320 ltr/min **84.8 U.S gal/min** at rated rpm
Relief valve setting ..... 34.3 MPa 350 kgf/cm² **4,980 psi**
Hydraulic cylinders:
Type ..... Double-acting, piston type
Number of cylinders—bore x stroke:
Boom cylinder ..... 2- 160 mm x 898 mm **6.3" x 35.4"**
Bucket cylinder ..... 1- 185 mm x 675 mm **7.3" x 26.6"**
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 ..... 7.2 s
Dump ..... 1.7 s
Lower (Empty) ..... 4.2 s

SERVICE REFILL CAPACITIES

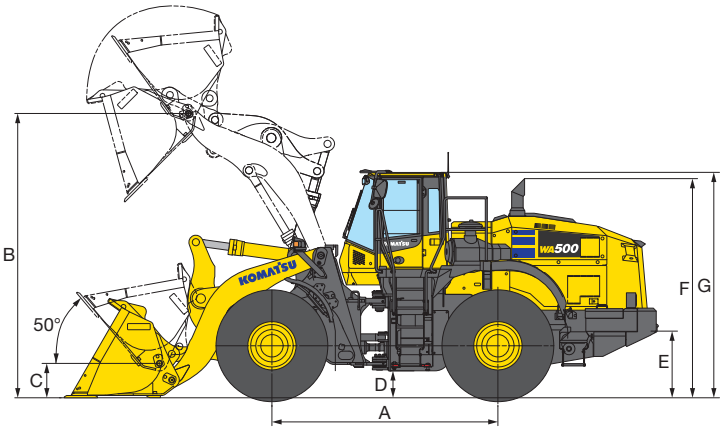
Cooling system	110 ltr	**29.1 U.S. gal**
Fuel tank	473 ltr	**124.9 U.S. gal**
Engine	37 ltr	**9.8 U.S. gal**
Hydraulic system	337 ltr	**89.0 U.S. gal**
Axle (each front and rear)	95 ltr	**25.1 U.S. gal**
Torque converter and transmission	71 ltr	**18.8 U.S. gal**
DEF tank	36 ltr	**9.5 U.S. gal**

BUCKET SELECTION GUIDE



DIMENSIONS

Measured with 29.5-25-22PR (L3) tires



	Tread width (center of tread to center of tread)		2400 mm	**7'10"**
	Width over tires		3190 mm	**10'6"**
A	Wheelbase		3780 mm	**12'5"**
B	Hinge pin height, max. height	Standard Boom	4755 mm	**15'7"**
		High Lift Boom	5165 mm	**16'11"**
C	Hinge pin height, carry position	Standard Boom	575 mm	**1'11"**
		High Lift Boom	700 mm	**2'4"**
D	Ground clearance		450 mm	**1'6"**
E	Hitch height		1115 mm	**3'8"**
F	Overall height, top of the stack		3665 mm	**12'0"**
G	Overall height, ROPS cab		3785 mm	**12'5"**

	Standard Boom			High Lift Boom
	General Purpose Bucket	Excavating Bucket	Loose Material Bucket	Excavating Bucket
	Straight Edge Bolt-on Cutting Edge	Straight Edge Bolt-on Cutting Edge	Straight Edge Bolt-on Cutting Edge	Straight Edge Bolt-on Cutting Edge
Bucket capacity: heaped	5.8 m^3 **7.6 yd^3**	5.2 m^3 **6.8 yd^3**	6.3 m^3 **8.2 yd^3**	4.5 m^3 **5.9 yd^3**
struck	4.9 m^3 **6.4 yd^3**	4.2 m^3 **5.5 yd^3**	5.3 m^3 **6.9 yd^3**	3.7 m^3 **4.8 yd^3**
Bucket width	3400 mm **11'2"**	3400 mm **11'2"**	3400 mm **11'2"**	3400 mm **11'2"**
Bucket weight	3210 kg **7,077 lb**	3055 kg **6,735 lb**	3485 kg **7,683 lb**	2885 kg **6,360 lb**
Dumping clearance, max. height and 45° dump angle* (H)	3275 mm **10'9"**	3395 mm **11'2"**	3210 mm **10'6"**	3890 mm **12'9"**
Reach at max. height and 45° dump angle*	1525 mm **5'0"**	1400 mm **4'7"**	1585 mm **5'2"**	1435 mm **4'8"**
Reach at 2130 mm **7'** clearance and 45° dump angle	2315 mm **7'7"**	2215 mm **7'3"**	2350 mm **7'8"**	2585 mm **8'6"**
Reach with arm horizontal and bucket level	3295 mm **10'10"**	3120 mm **10'3"**	3385 mm **11'11"**	3385 mm **11'1"**
Operating height (fully raised)	6470 mm **21'3"**	6415 mm **21'1"**	6540 mm **21'5"**	6715 mm **22'2"**
Overall length (bucket on ground)	9945 mm **32'8"**	9770 mm **32'1"**	10035 mm **32'11"**	10130 mm **33'3"**
Loader clearance circle (bucket at carry, outside corner of bucket)	16450 mm **54'0"**	16360 mm **53'8"**	16550 mm **54'4"**	16630 mm **54'7"**
Digging depth: 0°	135 mm **5"**	135 mm **5"**	135 mm **5"**	210 mm **8"**
10°	440 mm **1'5"**	410 mm **1'4"**	455 mm **1'6"**	470 mm **1'7"**
Static tipping load: straight	27179 kg **59,919 lbs.**	27749 kg **61,176 lbs.**	26239 kg **57,847 lbs.**	23345 kg **51,466 lbs.**
40° full turn	23272 kg **51,305 lbs.**	23790 kg **52,447 lbs.**	22419 kg **49,425 lbs.**	19899 kg **43,869 lbs.**
Breakout force	240 kN 24470 kgf **53,947 lb**	268 kN 27300 kgf **60,185 lb**	227 kN 23200 kgf **51,150 lb**	286 kN 29140 kgf **64,245 lb**
Operating weight	35661 kg **78,619 lbs.**	35504 kg **78,272 lbs.**	35935 kg **79,223 lbs.**	35735 kg **78,782 lbs.**

* 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 counterweight, tire size, and other attachments.
Apply the following weight changes to operating weight and static tipping load.

WEIGHT CHANGES

Tires or attachments	Operating weight		Tipping load straight		Tipping load full turn	
	kg	lb	kg	lb	kg	lb
Remove additional counterweight	-900	-1984	-1860	-4101	-1570	-3461

STANDARD EQUIPMENT

- Alternator, 90 A
- Auto shift transmission with mode select system
- Automatic digging system
- Automatic hydraulic-driven fan with automatic reverse rotation
- Back-up alarm
- Batteries, 160 Ah/12 V (2)
- Battery disconnect
- Boom kick-out, in-cab adjustable
- Bucket positioner, in-cab adjustable, 3 positions
- Color rear view camera and monitor
- Counterweight, standard and additional
- Electronically Controlled Suspension System (ECSS)
- Engine, Komatsu SAA6D140E-7 diesel
- Engine shut-off system, electric
- Engine shutdown secondary switch
- EPC fingertip controls with F-N-R switch, two levers
- 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, ecology, Fuel level, DEF levels, Hydraulic oil temperature, speedometer/tachometer)
- Front fenders
- Fuel pre-filter with water separator
- Horn, electric
- Komatsu SmartLoader Logic
- Komatsu Auto Idle Shutdown
- KOMTRAX® Level 5
- Lift cylinders and bucket cylinder
- Lights
  - Back-up light, LED
  - Stop and tail light, LED
  - Turn signal, two front and two rear with hazard switch
  - Working lights, halogen, two front cab mount
  - Working lights, halogen, two front fender mount
  - Working lights, halogen, two rear
- Load meter*
- Loader linkage with standard lift arm
- Lock-up torque converter
- Parking brake, electric
- Radiator, wider core
- Radiator mask, swing out
- Rear full fenders
- Rear view mirrors, outside (2) inside (2)
- Rims for 29.5-25 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, two-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, 11 kW
- Transmission, four forward and four reverse
- Two-spool valve for boom and bucket control
- Vandalism protection kit

***Restrictions apply based on machine configuration. Load meter is not available for machines with MF monolever, 3rd spool hydraulic arrangement or coupler. Consult your local Komatsu distributor for details.**

OPTIONAL EQUIPMENT

- Auxiliary steering (SAE)
- Brake cooling system
- Engine pre-cleaner with extension
- High lift boom
- Limited slip differential (F&R)
- Mono-lever loader control with transmission F-N-R switch
- Power train guard
- Three-spool valve with lever and piping
- Various tire options, radial and bias
- Various bucket 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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