

KOMATSU®

WA380-8

Tier 4 Final Engine

WHEEL LOADER

WA380



Photos may include optional equipment.

NET HORSEPOWER

191 HP @ 2100 rpm
143 kW @ 2100 rpm

OPERATING WEIGHT

40,532 – 41,932 lb
18,385 – 19,020 kg

BUCKET CAPACITY

3.5 – 4.3 yd³
2.7 – 3.3 m³

WALK-AROUND

WA380-8



Photos may include optional equipment.

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2.7 – 3.3 m³



PERFORMANCE, DURABILITY AND FUEL ECONOMY

Large capacity torque converter with lock-up:

- 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 SAA6D107E-3 engine** provides a net output of 143 kW **191 HP** with up to 6% improved fuel consumption. This engine is EPA Tier 4 emissions certified.

Variable Geometry Turbocharger (VGT) is hydraulically actuated 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

Combined fuel and DEF consumption is less than the WA380-7 fuel consumption.

Hydraulically driven cooling fan

Auto-reversing fan is programmable and swings out for easy access to the wider core coolers.

Remote boom and bucket positioners allow the operator to set upper and lower boom kick-outs, as well as the bucket level from inside the cab.

Variable displacement piston pumps with Closed-center Load Sensing System (CLSS) provide quick hydraulic response and smooth operation to maximize productivity.

Rearview monitoring system (standard)

Enhanced working environment:

- High capacity air suspension seat, heated
- Seat mounted Electronic Pilot Controls (EPC) controls with F-N-R switch
- (2) 12V power outlets

New-style plastic front fenders add durability.



Rear full fenders (standard) are made of durable plastic and swing open for easy access to maintenance points.

7" LCD color monitor panel

Easy-to-read monitor with "ecology guidance" enables fuel efficient operation. Monitor panel onboard diagnostics remove the need for laptops during service.

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

Engine air filter

Externally mounted on the rear LH fender for easier access and maintenance.

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

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

PERFORMANCE FEATURES

KOMATSU NEW ENGINE TECHNOLOGIES

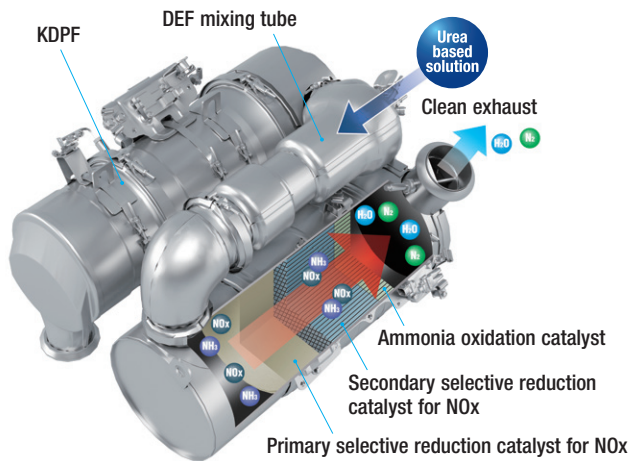
New Tier 4 Final Engine

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

Technologies Applied to New Engine

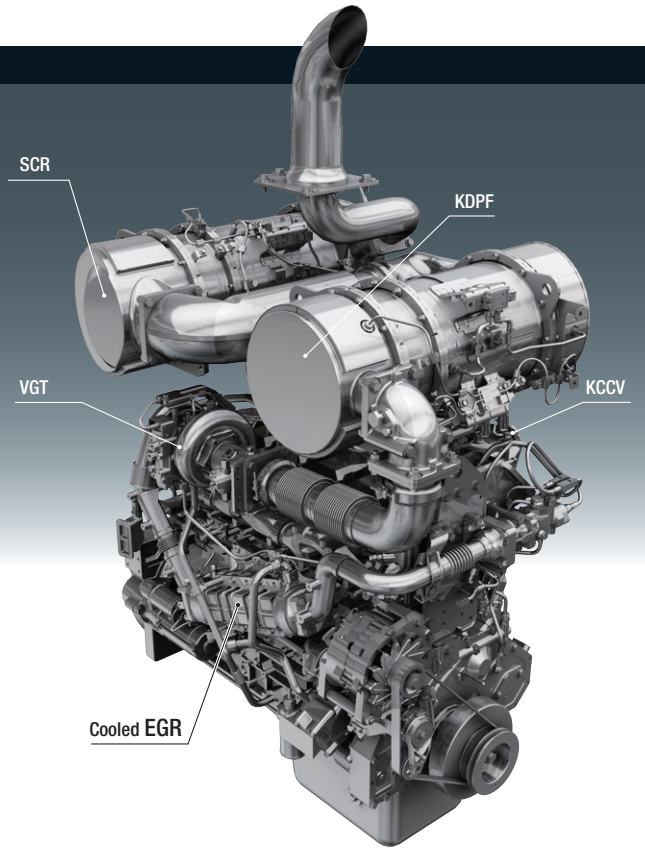
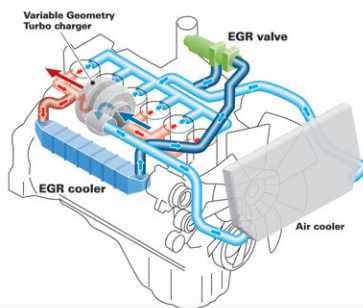
Heavy-duty after treatment system

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



Heavy-duty cooled Exhaust Gas Recirculation (EGR) system

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

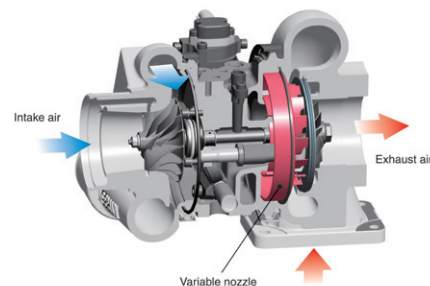


Advanced Electronic Control System

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

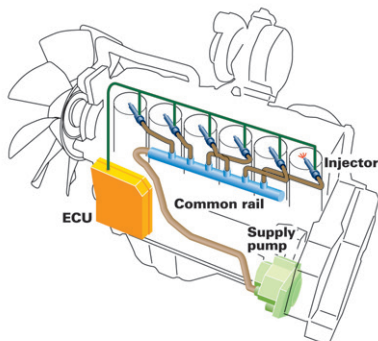
Variable Geometry Turbocharger (VGT) system

The VGT features proven Komatsu-designed hydraulic technology for robust and accurate control under all speed and load conditions for optimal engine performance. The VGT also provides precise exhaust temperature control for efficient KDPF regeneration.



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 PM emissions.



Komatsu SmartLoader Logic

The WA380-8 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 WA380-8 has greater productivity 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 WA380-8 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 WA380-8. 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 – Economy (E) and Power (P).

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



- 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

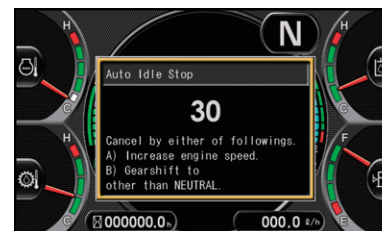
This operator-controlled system allows the operator to select manual shifting or two levels of automatic shifting (low, and high). Auto L mode is for fuel-saving operation with the gear-shift timing set at lower speeds than Auto H mode.

CLSS Variable Displacement Piston Pump

The Closed-Center Load Sensing System (CLSS), with variable displacement piston pump, delivers precise hydraulic flow just as the operator demands. This prevents wasted hydraulic flow, which minimizes loss and contributes to better fuel efficiency.

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.



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

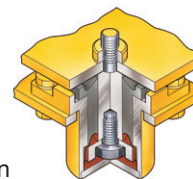
The operator can tilt and telescope the steering wheel to allow maximum comfort and control. The two-spoke steering wheel allows maximum visibility of the monitor panel and the forward work environment.



Low Noise Design

Operator's ear noise level : 72 dB(A)
Dynamic noise level (outside): 108 dB(A)

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



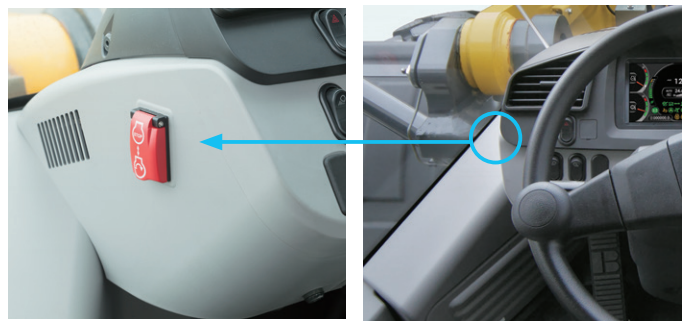
Rear View Monitoring System (standard)

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



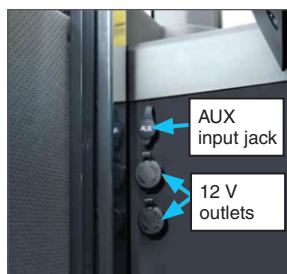
Engine Shutdown Secondary Switch

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



Auxiliary Input (MP3 Jack) 12 V Outlets

An Aux input for audio devices is standard as well as two 12 volt outlets. These are all located on the front of the right-hand console.



WORKING ENVIRONMENT



Easy Entry and Exit

The WA380-8 has an inclined ladder with wide steps and hand holds to ease entry and exit from the cab.

Remote Bucket & Boom Positioner

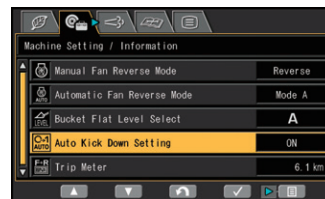
The operator can set the bucket angle and remote boom positioner from the cab. Both upper and lower boom kick-outs are adjustable in the cab with the push of a button. The bucket positioner can store three horizontal settings, allowing the operator to easily change attachments without resetting the bucket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

Remote positioner switch
Boom / Bucket



Automatic Kick-down

The WA380-8 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 WA380-8.

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 a F-N-R switch.

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 controls.

Machine monitor

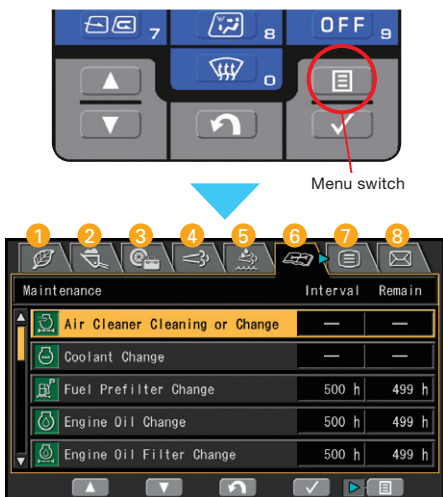
- 1 LCD unit
- 2 LED unit
- 3 Engine tachometer
- 4 Speedometer
- 5 Ecology gauge
- 6 Air conditioner display
- 7 Shift indicator
- 8 Engine coolant temperature gauge
- 9 Hydraulic oil temperature gauge
- 10 Torque converter oil temperature gauge
- 11 Fuel gauge
- 12 Message pilot lamp
- 13 Pilot lamps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

Switch panel

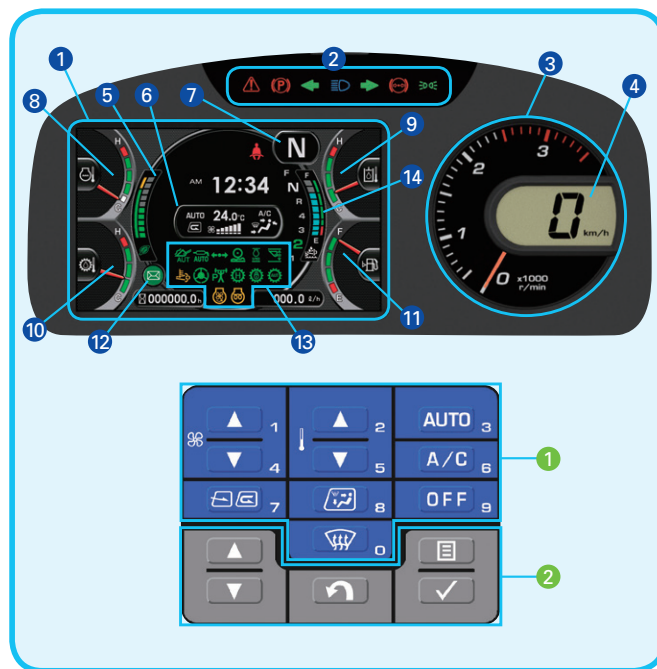
- 1 Air conditioner switches / Numeral key pad
- 2 Function switches

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



WA380-8

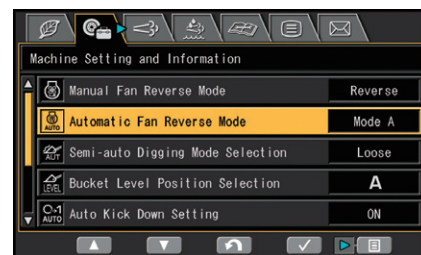
Side-opening Gull-wing Engine Doors

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



Auto Reversing Fan

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



Swing-Out Type Cooling Fan and Wide Core Radiator

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



DEF Tank

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



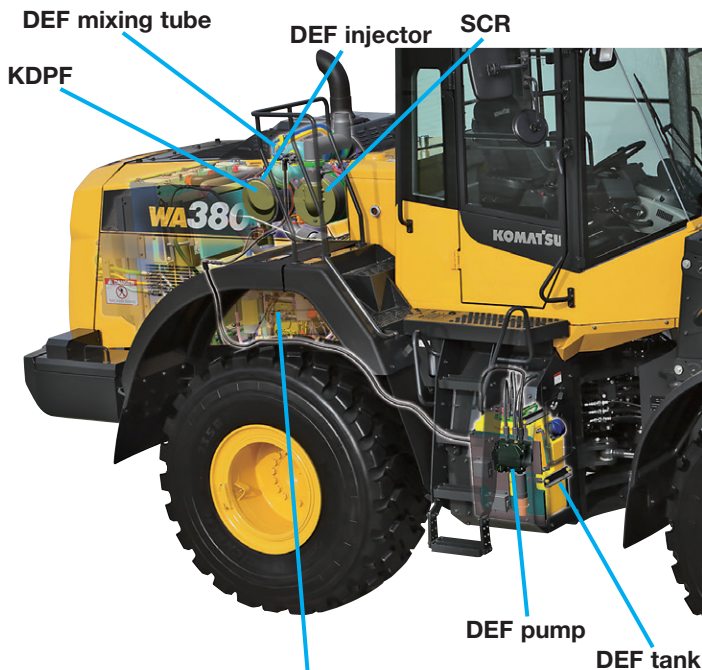
Battery Disconnect Switch

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



Engine Compartment

The WA380-8 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.



Fuel filter
Engine oil fill
Engine oil dipstick

Rear Full Fenders (Standard)

Full rear fenders are standard on the WA380-8. 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 the 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.

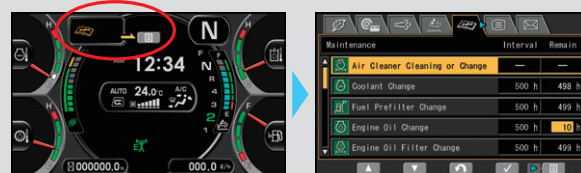


Maintenance Information

“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.

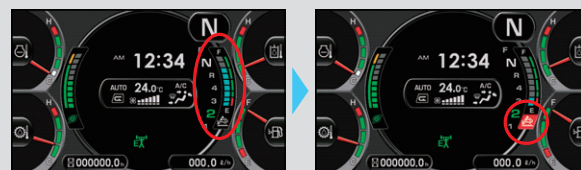
* : The setting can be changed within the range between 10 and 200 hours.



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 & SERVICE SUPPORT



KOMATSU CARE Program Includes:

*The WA380-8 comes standard with complimentary factory scheduled maintenance for the first 3 Years or 2,000 Hours, whichever comes first.

Planned Maintenance Intervals at:

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

Benefits of Using Komatsu CARE

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

Complimentary KDPF Exchanges

The WA380-8 comes standard with 2 Complimentary KDPF Exchange units for the first 5 Years or 9000 hours whichever comes first. The suggested KDPF Exchange unit service intervals are 4500 hours & 9000 hours. End user must have authorized Komatsu distributor perform the removal & installation of the KDPF.

Complimentary SCR Maintenance

The WA380-8 also includes 2 factory recommended services of the Selective Catalytic Reduction (SCR) Diesel Exhaust Fluid (DEF) system during the first 5 Years or 9000 hours whichever comes first. The service includes factory recommended DEF tank flush & strainer cleaning at the suggested service intervals of 4500 hours & 9000 hours.

Interval PM	i250	500	1000	1500	2000
PERFORM KOWA SAMPLING (5 samples) – engine, transmission, hydraulics, front & rear axle	✓	✓	✓	✓	✓
CLEAN AC FRESH AND RECIRC AIR FILTERS	✓				
REPLACE HYDRAULIC OIL FILTER ELEMENT	✓				✓
REPLACE TRANSMISSION OIL FILTER	✓		✓		✓
CHECK AND CLEAN AIR CLEANER	✓	✓	✓	✓	✓
CHECK AND CLEAN FUEL BREATHER ELEMENT	✓	✓	✓	✓	✓
LUBRICATE REAR AXLE PIVOT PIN	✓	✓	✓	✓	✓
LUBRICATE WORK EQUIPMENT	✓	✓	✓	✓	✓
CHECK PARKING BRAKE	✓	✓	✓	✓	✓
CHECK WHEEL HUB BOLTS AND RETIGHTEN AS NECESSARY	✓	✓	✓	✓	✓
DRAIN SEDIMENT FROM FUEL TANK	✓	✓	✓	✓	✓
COMPLETE 50 POINT INSPECTION FORM; LEAVE PINK COPY WITH CUSTOMER OR IN CAB	✓	✓	✓	✓	✓
RESET MONITOR PANEL MAINTENANCE COUNTER FOR APPROPRIATE ITEMS	✓	✓	✓	✓	✓
CHANGE ENGINE OIL		✓	✓	✓	✓
REPLACE ENGINE OIL FILTER		✓	✓	✓	✓
REPLACE AC FRESH & RECIRC AIR FILTERS		✓	✓	✓	✓
REPLACE FUEL PRE-FILTER		✓	✓	✓	✓
REPLACE FUEL MAIN FILTER			✓		✓
REPLACE DEF TANK BREATHER			✓		✓
CLEAN TRANSMISSION BREATHER ELEMENT			✓		✓
REPLACE TRANSMISSION OIL STRAINER			✓		✓
LUBRICATE CENTER HINGE PIN			✓		✓
LUBRICATE DRIVE SHAFT CENTER SUPPORT					✓
CHANGE TRANSMISSION OIL					✓
CHANGE FRONT AND REAR AXLE OIL					✓
REPLACE HYDRAULIC TANK BREATHER ELEMENT					✓
CLEAN HYDRAULIC OIL STRAINER					✓
CHANGE HYDRAULIC OIL					✓
REPLACE DEF PUMP FILTER					✓
REPLACE KCCV FILTER					✓
FACTORY TRAINED TECHNICIAN LABOR	✓	✓	✓	✓	✓
2 KDPF Exchanges at 4,500 Hrs and 9,000 Hrs.					
2 SCR System Maintenance Services at 4,500 Hrs. and 9000 Hrs.					

Komatsu CARE® – Extended Coverage

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



Komatsu Parts Support

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



Komatsu Oil and Wear Analysis (KOWA)

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

* Certain exclusions and limitations apply. Refer to the customer certificate for complete program details and eligibility. Komatsu® and Komatsu Care® are registered trademarks of Komatsu Ltd. Copyright 2019 Komatsu America Corp.

WA380-8

KOMTRAX EQUIPMENT MONITORING

GET THE WHOLE STORY WITH
KOMTRAX[®]

✓ **WHAT**

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

✓ **WHEN**

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

✓ **WHERE**

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

✓ **WHY**

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

✓ **WHO**

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



KOMTRAX[®]

For construction and compact equipment.

KOMTRAX Plus[®]

For production and mining class machines.

SPECIFICATIONS



ENGINE

Model..... Komatsu SAA6D107E-3*
 Type..... Water-cooled, 4-cycle
 Aspiration..... Turbo-charged, after-cooled
 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 143 kW **192 HP**
 ISO 9249 / SAE J1349..... Net 143 kW **191 HP**
 Rated rpm..... 2100 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..... 3-elements, 1-stage, 2-phase
 Transmission..... Automatic, full-powershift, counter-shaft type

	Travel speed	Forward*	Reverse*
1st		6.6 km/h 4.1 mph	7.1 km/h 4.4 mph
2nd		11.7 km/h 7.3 mph (12.4 km/h 7.7 mph)	12.4 km/h 7.7 mph (13.3 km/h 8.3 mph)
3rd		20.9 km/h 13.0 mph (22.4 km/h 13.9 mph)	22.3 km/h 13.9 mph (24.1 km/h 15.0 mph)
4th		36.1 km/h 22.4 mph (37.5 km/h 23.3 mph)	38.6 km/h 24.0 mph (37.5 km/h 23.3 mph)

*P-mode Measured with 23.5-25 tires (): Lock-up clutch ON



AXLES AND FINAL DRIVES

Drive system..... Four-wheel drive
 Front..... Fixed, semi-floating
 Rear..... Center-pin support, semi-floating, 26° 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..... 35° (40° to max end stop)
 Minimum turning radius at the center of outside tire..... 6320 mm **20' 9"**



HYDRAULIC SYSTEM

Steering system:
 Hydraulic pump..... Piston type
 Capacity..... 137 ltr/min **36.2 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..... 75 mm x 442 mm **3.0" x 17.4"**

Loader control:
 Hydraulic pump..... Piston pump
 Capacity..... 205 ltr/min **54.15 U.S. gal/min**
 Relief valve setting..... 31.4 MPa 320 kgf/cm² **4,550 psi**
 Hydraulic cylinders:
 Type..... Double-acting, piston type
 Number of cylinders—bore x stroke:
 Boom cylinder..... 2- 130 mm x 713 mm **5.1" x 28.1"**
 Bucket cylinder..... 1- 150 mm x 535 mm **5.9" x 21.1"**
 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..... .59 s
 Dump..... .18 s
 Lower (Empty)..... .33 s

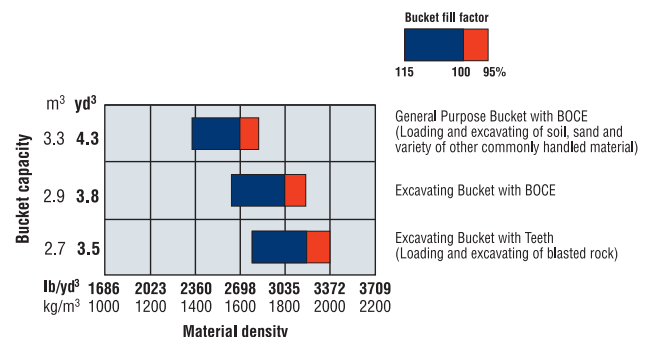


SERVICE REFILL CAPACITIES

Cooling system..... 60.6 ltr **16.0 U.S. gal**
 Fuel tank..... 300 ltr **79.3 U.S. gal**
 Engine..... 23 ltr **6.1 U.S. gal**
 Hydraulic system..... 142 ltr **37.5 U.S. gal**
 Axle (each front and rear)..... 40 ltr **10.6 U.S. gal**
 Torque converter and transmission..... 54 ltr **14.3 U.S. gal**
 DEF tank..... 36 ltr **9.5 U.S. gal**

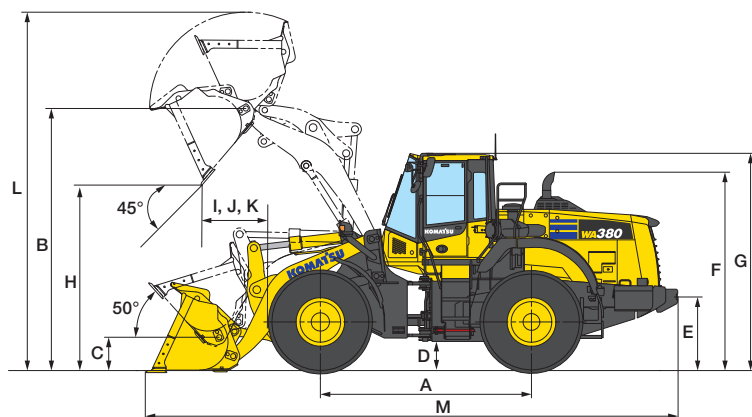


BUCKET SELECTION GUIDE





DIMENSIONS



Tread	2160 mm	7'1"	
Width over tires	2780 mm	9'1"	
A Wheelbase	3300 mm	10'10"	
B Hinge pin height,	Standard Boom	4095 mm	13'5"
max. height	High Lift Boom	4625 mm	15'2"
C Hinge pin height,	Standard Boom	520 mm	1'8"
carry position	High Lift Boom	680 mm	2'3"
D Ground clearance		455 mm	1'6"
E Hitch height		1150 mm	3'9"
F Overall height, top of the stack		3100 mm	10'2"
G Overall height, ROPS cab		3390 mm	11'1"

Measured with 23.5R25 (L3) tires, ROPS/FOPS cab

	Standard Boom				High Lift Boom
	General Purpose Bucket Pin On	General Purpose Bucket Pin On	Excavating Bucket Pin On	Excavating Bucket Pin On	General Purpose Bucket Pin On
	Bolt-on Cutting Edge	Teeth	Bolt-on Cutting Edge	Teeth	Bolt-on Cutting Edge
Bucket capacity: heaped	3.3 m ³ 4.3 yd³	3.1 m ³ 4.0 yd³	2.9 m ³ 3.8 yd³	2.7 m ³ 3.5 yd³	2.9 m ³ 3.8 yd³
struck	2.9 m ³ 3.8 yd³	2.7 m ³ 3.5 yd³	2.4 m ³ 3.1 yd³	2.3 m ³ 3.0 yd³	2.4 m ³ 3.1 yd³
Bucket width	2905 mm 9'6"	2920 mm 9'7"	2905 mm 9'6"	2920 mm 9'7"	2905 mm 9'6"
Bucket weight	1610 kg 3,549 lb	1540 kg 3,395 lb	1720 kg 3,792 lb	1650 kg 3,638 lb	1528 kg 3,369 lb
H Dumping clearance, max. height and 45° dump angle*	2950 mm 9'8"	2815 mm 9'3"	3045 mm 10'0"	2910 mm 9'7"	3575 mm 11'9"
I Reach at max. height and 45° dump angle*	1150 mm 3'9"	1265 mm 4'2"	1045 mm 3'5"	1160 mm 3'10"	1185 mm 3'11"
J Reach at 2130 mm 7' clearance and 45° dump angle*	1735 mm 5'8"	1845 mm 6'1"	1630 mm 5'4"	1745 mm 5'9"	2205 mm 7'3"
K Reach with arm horizontal and bucket level*	2590 mm 8'6"	2768 mm 9'1"	2450 mm 8'1"	2630 mm 8'8"	2940 mm 9'8"
L Operating height (fully raised)	5600 mm 18'4"	5600 mm 18'4"	5450 mm 17'11"	5450 mm 17'11"	5985 mm 19'8"
M Overall length (bucket on ground)	8310 mm 27'3"	8490 mm 27'10"	8170 mm 26'10"	8350 mm 27'5"	8810 mm 28'11"
Loader clearance circle (bucket at carry, outside corner of bucket)	14440 mm 47'5"	14540 mm 47'8"	14370 mm 47'2"	14470 mm 47'6"	14850 mm 48'9"
Digging depth: 0°	60 mm 2"	75 mm 3"	60 mm 2"	75 mm 3"	110 mm 4"
10°	290 mm 11"	335 mm 13"	265 mm 10"	310 mm 12"	320 mm 13"
Static tipping load: straight	15440 kg 34,039 lb	15545 kg 34,271 lb	15335 kg 33,808 lb	15435 kg 34,028 lb	12055 kg 26,577 lb
40° full turn	13440 kg 29,630 lb	13540 kg 29,851 lb	13325 kg 29,377 lb	13430 kg 29,608 lb	10407 kg 22,943 lb
Breakout force	158 kN 16100 kgf 35,494 lbf	170 kN 17300 kgf 38,140 lbf	175 kN 17850 kgf 39,353 lbf	190 kN 19335 kgf 42,626 lbf	183 kN 18661 kgf 41,140 lbf
Operating weight	18455 kg 40,686 lb	18385 kg 40,532 lb	18565 kg 40,929 lb	18495 kg 40,774 lb	19020 kg 41,932 lb

* At the end of tooth or B.O.C.E. (Bolt on cutting edge)

All dimensions, weights, and performance values based on ISO 7131, ISO 14397-1 and ISO 7546 standards.

Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, and operator.

Machine stability and operating weight affected by counterweight, tire size, and other attachments.



WEIGHT CHANGES

Tires or attachments	Operating weight		Tipping load straight		Tipping load full turn	
	kg	lb	kg	lb	kg	lb
Remove additional counterweight	-325	-716	-840	-1852	-700	-1543



STANDARD EQUIPMENT

- 2-spool valve for boom and bucket control
- Alternator, 90 A, 24 V
- Auto shift transmission with mode select system
- Automatic hydraulic-driven fan with automatic reverse rotation
- Back-up alarm
- Batteries, 140 Ah/12V (2), 1050 CCA
- 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
- Engine, Komatsu SAA6D107E-3 diesel
- Engine shut-off system, electric
- 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, hydraulic oil, DEF level temperature, speedometer/tachometer)
 - Front fenders
 - Fuel pre-filter with water separator
 - Horn, electric
 - Komatsu SmartLoader Logic
 - Komatsu Auto Idle Shutdown
 - KOMTRAX® Level 5.0
 - Lift cylinders and bucket cylinder
 - Lights
 - Back-up light, LED
 - Stop and tail light, LED
 - 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
 - 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 23.5-25 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, 2-point retractable, 76mm 3" width
 - Space for lunch box
 - Steering wheel, tilt and telescopic
 - Sun visor, front window
 - Windshield washer and wiper, front with intermittent
 - Windshield washer and wiper, rear
- Service brakes, wet disc type
- Starting motor, 5.5 kW
- Transmission, 4 forward and 4 reverse
- Vandalism protection kit, padlocks for battery box (2)



OPTIONAL EQUIPMENT

- 3-spool valve with lever and piping
- Auxiliary steering (SAE)
- Cutting edge (bolt-on type)
- Engine oil and coolant heater
- Guarding package
- Engine pre-cleaner with extension
- High-lift boom
- Limited slip differential (F&R)
- Lube system
- Monolever loader control with transmission F-N-R switch
- Various tire options, radial and bias
- Various bucket options



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