

Gross: 143 kW 192 HP @ 2100 rpm

Net: 142 kW 191 HP @ 2100 rpm

BUCKET CAPACITY 2.7-4.0 m³ 3.5-5.2 yd³



WA380-6

ecot3

WA 380



WHEEL LOADER

Photo may include optional equipment.

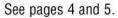
WALK-AROUND

Excellent Operator Environment

- Automatic transmission with ECMV
- Electrically controlled transmission lever
- Variable transmission cut-off system
- Telescopic/tilt steering column
- Fingertip control levers
- Low-noise designed cab
- Pillar-less large ROPS/FOPS cab-integrated

Low fuel consumption

Variable displacement piston pump & CLSS



High Productivity

Increased Reliability

- Reliable Komatsu designed and manufactured components
- Sturdy main frame
- Maintenance-free, fully hydraulic, wet disc service and parking brakes
- Hydraulic hoses use flat face O-ring seals

See page 6.

- Cathion electrodeposition process is used to apply primer paint
- Powder coating process is used to apply on main structure
- Sealed DT connectors for electrical connections

HORSEPOWER

Gross: 143 kW 192 HP @ 2100 rpm Net: 142 kW 191 HP @ 2100 rpm

> **BUCKET CAPACITY** 2.7-4.0 m³ 3.5-5.2 yd³



Photo may include optional equipment.

Harmony with Environment

- EPA Tier 3 and EU Stage 3A emissions certified
- Low exterior noise
- Low fuel consumption

Easy Maintenance

• "EMMS" (Equipment Management Monitoring System)

See page 7.

- Easy access, gull-wing type engine side doors
- Automatic Reversible Fan (option)

2

HIGH PRODUCTIVITY AND LOW FUEL CONSUMPTION



High Performance SAA6D107E-1 Engine

Electronic Heavy Duty Common Rail fuel injection system provides optimum combustion of fuel.

This system also provides fast throttle response to match the machine's powerful tractive effort and fast hydraulic response.

Net: 142 kW 191 HP Low Emission Engine

This engine is EPA Tier 3 and EU Stage 3A emissions certified, without sacrificing power or machine productivity.

Low Fuel Consumption

The fuel consumption is reduced greatly because of the low-noise, high-torque engine and the large-capacity torque converter with maximum efficiency in the low-speed range.

Dual-mode Engine Power Select System

This wheel loader offers two selectable operating modes— E and P. The operator can adjust the machine's performance with the selection switch.

 E Mode: This mode provides maximum fuel efficiency for most of general loading.

 P Mode: This mode provides maximum power output for hard digging operation or hill climb.



Dual mode engine power selection switch

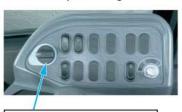


The eco indicator will help an operator to promote energy saving.

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. Therefore Auto L mode keeps the engine run in a relatively low rpms range



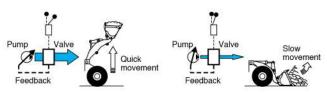
for fuel conservation while yielding adequate tractive force by depressing the accelerator pedal.

Shift mode selection switch

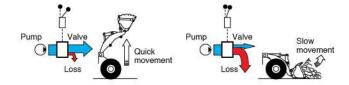
Variable Displacement Piston Pump & CLSS

New design variable displacement piston pump combined with the Closed-center Load Sensing System delivers hydraulic flow just as the job requires preventing wasting hydraulic pressure. Minimized waste loss contributes to better fuel economy.

 New Variable Displacement Piston Pump: The pump delivers only necessary amounts minimizing waste loss.



 Fixed Displacement Piston Pump: The pump delivers the maximum amount at any time and the unused flow is disposed.





Maximum Dumping Clearance and Reach

The long lift arms provide high dumping clearances and maximum dumping reach. The operator can even level loads on the body of a dump truck easily and efficiently.

Dumping Clearance: 2885 mm 9'6" Dumping Reach: 1210 mm 4'0" (3.3 m³ 4.3 yd³ bucket with B.O.C.)



5

4

INCREASED RELIABILITY

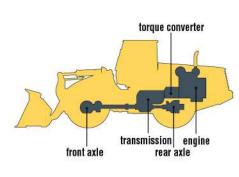
Komatsu Components

Komatsu manufactures the engine, torque converter, transmission, hydraulic units, electric parts, and even each bolt on this

wheel loader.
Komatsu
loaders are
manufactured
with an
integrated
production

system under

a strict quality control system.

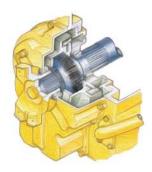


Wet Multi-disc Brakes and Fully Hydraulic Braking

System mean lower maintenance costs and higher reliability. Wet disc brakes are fully sealed. Contaminants are kept out, reducing wear and resulting maintenance. Brakes require no adjustments for wear, meaning even lower maintenance. The new parking brake is also an adjustment-free, wet multi-disc for high reliability and long life.

Added reliability is designed into the braking system by the use of two independent hydraulic circuits. Provides hydraulic backup should one of the circuits fail.

Fully hydraulic brakes mean no air system to bleed, or the condensation of water in the system that can lead to contamination, corrosion, and freezing.





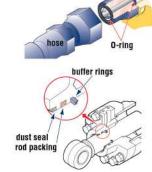
High-rigidity Frames and Loader Linkage

The front and rear frames and the loader linkage have got more torsional rigidity to secure resistance against stresses increased due to the use of a larger bucket.

Frame and loader linkage are designed to accommodate actual working loads, and simulated computer testing proves its strength.

Flat Face-to-face O-ring Seals

Flat face-to-face O-ring seals are used to securely seal hydraulic hose connections and to prevent oil leakage. In addition, buffer rings are installed to the head side of the all-hydraulic cylinders to lower the load on the rod seals and maximize the reliability.



Cathion Electrodeposition Primer Paint/ Powder Coating Final Paint

Cathion electrodeposition paint is applied as a primer paint and powder coating is applied as topcoat to the exterior metal sheet parts. This process results in a beautiful rust-free machine, even in the most severe environments. Some external parts are made of plastic providing long life and high impact resistance.

Sealed DT Connectors

Main harnesses and controller connectors are equipped

with sealed DT connectors providing high reliability, water resistance and dust resistance.



EASY MAINTENANCE



EMMS (Equipment Management Monitoring System)

Monitor is mounted in front of the operator for



easy view, allowing the operator to easily check gauges and warning lights.

A specially designed two-spoke steering wheel allows the operator to easily see the instrument panel.

Maintenance Control and Troubleshooting Functions

- Action code display function: If the loader has any troubles, the monitor displays action details on the character display at the center bottom of the monitor.
- Monitor function: Controller monitors engine oil level, pressure, coolant temperature, air cleaner clogging, etc.
 If controller finds abnormalities, all of these are displayed on LCD.
- Replacement time notice function: Monitor informs replacement time of oil and filters on LCD when it reaches replacement intervals.
- Trouble data memory function: Monitor stores abnormalities for effective troubleshooting.

Gull-wing Type Engine Side Doors Open Wide

The operator can open and close each gull-wing type engine side door easily with the assistance of a gas spring to perform daily service checks from the ground.



Ease of Radiator Cleaning

If the machine is operating in adverse conditions, the operator can reverse the hydraulic cooling fan from inside the cab by turning on a switch on the control panel.

Automatic Reversible Fan (optional)

The engine fan is driven hydraulically. It can be operated in reverse automatically. When switch is automatic position. The fan revolves in reverse for 2minutes every 2 hours intermittently. (Default setting)



- **B**: Manual Reverse Mode
- A: Normal rotation Mode
- C: Auto Reverse Mode

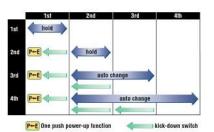
OPERATOR ENVIRONMENT

Easy Operation

Automatic Transmission with ECMV

Automatic transmission with ECMV automatically selects the proper gear speed based on travel speed, engine speed, and other travel conditions. The ECMV (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.

Kick-down switch:
 Consider this
 valuable feature for
 added productivity.
 With the touch of
 a finger, the
 kick-down switch



automatically downshifts from second to first when beginning the digging cycle. It automatically upshifts from first to second when the direction control lever is placed in reverse. This results in increased rim pull for better bucket penetration and reduced cycle times for higher productivity.

- One push power-up function: The kick-down switch also functions as a power-up switch in first gear. The first time the kick-down switch is depressed it functions as a kick-down switch and gear speed is reduced. When the machine is in E operation mode and first gear, pressing the kick-down switch a second time changes the operation mode to P allowing increased power for heavy digging operation. The operation mode returns to E when machine gear speed changes or direction changes to reverse.
- Hold switch: Auto shift is selected and if the operator turns on this switch when the lever is at the 3rd or 4th gear speed position, the transmission is fixed to that gear speed.

Electronically Controlled Transmission Lever



Easy shifting and directional changes

with Komatsu two-lever electronic shifting. Change direction or shift gears with a touch of the fingers without removing the

shifting hand from the steering wheel. Solid state electronics and conveniently located direction and gear shift controls make this possible. Automatic shifts in ranges two through four keep production high and manual shifting at a minimum.

Variable Transmission Cut-off System

The operator can continuously adjust the transmission cut-off pressure desired for the left brake pedal using switch located on the right-side control panel. The operator can improve the working performance by setting the cut-off pressure properly depending on working condition.

- · High cut-off pressure for digging operations.
- · Low cut-off pressure for truck-loading operations.



1:Cut-off ON/OFF switch 2:Cut off adjustment switch 3:Fan reverse ON/OFF switch 4:Boom control 5:Bucket control

Fingertip Work Equipment Control Levers with Large Size Arm Rest

New PPC control levers are used for the work equipment. The operator can easily operate the work equipment with fingertip control, reducing operator fatigue and increasing controllability. The PPC control lever column can be slid



forward or rearward and the large size arm rest can be adjusted up or down to provide the operator with a variety of comfortable operating positions.

Telescopic/Tilt Steering Column

The operator can tilt and telescope the steering column to provide a comfortable working position.



Photo may include optional equipment.

Comfortable Operation

Low-noise Design

Noise at operator's ear noise level : 72 dB(A)

Dynamic noise level (outside): 108 dB(A)

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



Pillar-less Large Cab

A wide pillar-less flat glass provides excellent front visibility. The wiper arm covers a large area to provide great visibility even on rainy days. The cab area is the

largest in its class providing maximum space for the operator. Increased seat reclining and slide adjustment to backward by introducing front mounted air conditioner unit.

Rear-hinged Full Open Cab Doors

The cab door hinges are installed to the rear side of the cab providing a large opening angle for the operator to enter and exit. The steps are designed like a staircase, so that the operator can get on and off the cab easily.



WHEEL LOADER

SPECIFICATIONS



Type	Komatsu SAA6D107E-1 Water-cooled, 4-cycle Turbocharged, aftercooled
	107 mm x 124 mm 4.21" x 4.88"
Governor	All-speed, electronic
Horsepower	
SAE J1995	
ISO 9249/SAE J1349*	Net 142 kW 191 HP
	ooling
Lubrication system:	
	Gear pump, force-lubrication
	Full-flow type
Air cleaner	 Dry type with double elements and dust evacuator, plus dust indicator

*Net horsepower at the maximum speed of radiator cooling fan is 133 kW 179 HP.

EPA Tier 3 and EU Stage 3A emissions certified.



TRANSMISSION

Torque converter:	
Type	3-element, single-stage, single-phase
Transmission:	
Type	Automatic full-powershift, countershaft type
Travel speed: km/h mp	n
Measured with 20.5-2	5 tires

	1st	2nd	3rd	4th		
Forward	6.0 3.7	10.6 6.7	18.6 11.6	31.1 19.3		
Reverse	6.5 4.0	11.3 7.0	19.9 12.4	33.0 20.5		

Measured with 23.5-25 tires

	1st	2nd	3rd	4th	
Forward	6.6 4.1	11.5 7.1	20.2 12.6	34.0 21.1	
Reverse	7.1 4.4	12.3 7.6	21.5 13.4	35.5 22.1	



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	
Final reduction gear	Planetary gear, single reduction



The state of the s	
Service brakes	
	wet disc brakes actuate on four wheels
Parking brake	
Emergency brake	Parking brake is commonly used



STEERING SYSTEM

Type Articula	ated type, full-hydraulic power steering
Steering angle	35° each direction (40° end stop)
Minimum turning radius at	
the center of outside tire	



HYDRAULIC SYSTEM

Steering system:	
Hydraulic pump	mp
Capacity	pm
Relief valve setting24.5 MPa 250 kgf/cm² 3,555	× ×
Hydraulic cylinders:	
Type	/pe
Number of cylinders	
Bore x stroke	
Bote A Stroke	***
Loader control:	
Hydraulic pump	mp
Capacity	nin
Relief valve setting	
Hydraulic cylinders:	
Type	/pe
Number of cylinders—bore x stroke:	•
Lift cylinder	.1"
Bucket cylinder	
Control valve	
Control positions:	
Boom	oat
Bucket	
Hydraulic cycle time (rated load in bucket)	٦
Raise	200
Dump	
Lower (Empty)) - C

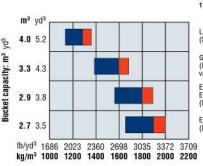


SERVICE REFILL CAPACITIES

Cooling system	8.1 U.S. gal
Fuel tank	
Engine	6.1 U.S. gal
Hydraulic system	
Axle (each front and rear)	
Torque converter and transmission	10.0 U.S. gal



BUCKET SELECTION GUIDE





Light Material Bucket with BOC (Scooping and loading of light material)

General Purpose Bucket with BOC (Loading and excavating of soil, sand and variety of other commonly handled material)

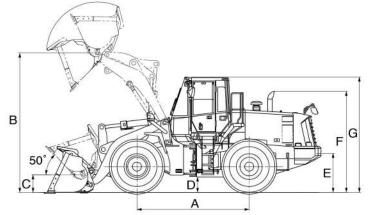
Excavating Bucket with BOC Excavating Bucket with Teeth and Segment Edge (Loading and excavating of crushed or blasted rock)

Excavating Bucket with Teeth (Loading and excavating of blasted rock)

Material density: kg/m³ lb/yd³



Measured with 20.5-25-16PR (L3) tires, ROPS/FOPS cab



	Tread	2160 mm	7'1"
	Width over tires	2695 mm	8'10"
Α	Wheelbase	3300 mm	10'10"
В	Hinge pin height, max. height	4030 mm	13'3"
С	Hinge pin height, carry position	520 mm	1'8"
D	Ground clearance	390 mm	1'3"
Е	Hitch height	1085 mm	3'7"
F	Overall height, top of the stack	2910 mm	9'7"
G	Overall height, ROPS cab	3325 mm	10'11"

	General Purpo	se Buckets	E	Light Material Bucket		
	Bolt-on Cutting Edges	Teeth	Bolt-on Cutting Edges	Teeth and Segments	Teeth	Bolt-on Cutting Edges
Bucket capacity: heaped	3.3 m³	3.1 m³	2.9 m³	2.9 m³	2.7 m³	4.0 m³
	4.3 yd³	4.1 yd³	3.8 yd³	3.8 yd³	3.5 yd³	5.2 yd³
struck	2.9 m³	2.7 m³	2.4 m³	2.4 m³	2.3 m³	3.4 m ³
	3.8 yd³	3.5 yd³	3.1 yd³	3.1 yd³	3.0 yd³	4.4 yd³
Bucket width	2905 mm	2925 mm	2905 mm	2925 mm	2925 mm	2905 mm
	9'6"	9'7"	9'6"	9'7"	9'7"	9'6"
Bucket weight	1620 kg	1540 kg	1720 kg	1765 kg	1645 kg	1835 kg
	3,570 lb	3,395 lb	3,790 lb	3,890 lb	3,625 lb	4,045 lb
Dumping clearance, max. height and 45° dump angle*	2885 mm	2755 mm	2960 mm	2840 mm	2840 mm	2790 mm
	9'6"	9'0"	9'9"	9'4"	9'4"	9'2"
Reach at max. height and 45° dump angle *	1210 mm	1305 mm	1125 mm	1225 mm	1225 mm	1295 mm
	4'0"	4'3"	3'8"	4'0"	4'0"	4'3"
Reach at 2130 mm (7') clearance and 45° dump angle	1760 mm 5'9"	1790 mm 5'10"	1720 mm 5'8"	1755 mm 5'9"	1755 mm 5'9"	1800 mm 5'11"
Reach with arm horizontal and bucket level	2650 mm	2810 mm	2510 mm	2680 mm	2680 mm	2775 mm
	8'8"	9'3"	8'3"	8'10"	8'10"	9'1"
Operating height (fully raised)	5535 mm	5535 mm	5420 mm	5420 mm	5420 mm	5670 mm
	18'2"	18'2"	17'9"	17'9"	17'9"	18'7"
Overall length	8195 mm	8365 mm	8055 mm	8225 mm	8225 mm	8320 mm
	26'11"	27'5"	26'5"	27'0"	27'0"	27'4"
Loader clearance circle (bucket at carry, outside corner of bucket)	14440 mm	14550 mm	14370 mm	14480 mm	14480 mm	14500 mm
	47'5"	47'9"	47'2"	47'6"	47'6"	47*7"
Digging depth: 0°	125 mm 4.9"	140 mm 5.5"	125 mm 4.9"	140 mm 5.5"	140 mm 5.5"	125 mm 4.9"
10°	360 mm	400 mm	335 mm	380 mm	380 mm	380 mm
	1'2"	1'4"	1'1"	1'3"	1'3"	1'3"
Static tipping load: straight	13880 kg	13970 kg	13780 kg	13710 kg	13870 kg	13640 kg
	30,600 lb	30,800 lb	30,380 lb	30,230 lb	30,580 lb	30,070 lb
40° full turn	12000 kg 26,460 lb	12100 kg 26,680 lb	11900 kg 26,230 lb	11840 kg 26,100 lb	12000 kg 26,460 lb	11770 kg 25,950 lb
Breakout force	158 kN	170 kN	176 kN	183 kN	191 kN	144 kN
	16100 kgf	17300 kgf	18000 kgf	18700 kgf	19500 kgf	14700 kgf
	35,495 lb	38,140 lb	39,680 lb	41,225 lb	42,990 lb	32,405 lb
Operating weight	16610 kg	16540 kg	16720 kg	16760 kg	16650 kg	16850 kg
	36,620 lb	36,460 lb	36,860 lb	36,950 lb	36,710 lb	37,150 lb

^{*} At the end of tooth or B.O.C.

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.

10

All dimensions, weights, and performance values based on SAE J732c and J742b standards.

Tires or attachments						g load turn	Width over tires		Ground clearance		Change in vertical dimensions	
	kg	lb	kg	lb	kg	lb	mm	ft in	mm	ft in	mm	ft in
20.5-25-16PR(L-3)	0	0	0	0	0	0	2695	8'10"	390	1'3"	0	0
23.5-25-16PR(L-3)	+970	+2,140	+770	+1,700	+680	+1,500	2780	9'1"	455	1'6"	+65	+3"
Install additional counterweight	+340	+750	+900	+1.985	+755	+1.665						

Lan S		
0.04	STANDARD	EQUIPMENT

- · 2-spool valve for boom and bucket controls
- Alternator, 60 A
- Auto shift transmission with mode select system
- Back-up alarm
- Back-up lamp
- Batteries, 136 Ah/2 x 12 V
- Boom kick-out
- Bucket positioner
- Counterweight
- Directional signal
- Engine, Komatsu SAA6D107E-1 diesel

- · Engine shut-off system, electric
- Front fender
- Fuel prefilter with water separator
- Hydraulic-driven fan with reverse rotation
- Lift cylinders and bucket cylinder
- Loader linkage with standard lift boom
- · Main monitor panel with **EMMS** (Equipment Management Monitoring System)
- PPC fingertip control, two levers
- Radiator mask, lattice type
- Rear defroster (electric)
- Rear view mirror

- · Rear window washer and wiper
- ROPS/FOPS cab
- · Seat, suspension type with reclining
- Seat belt
- · Service brakes, wet disc type
- Starting motor, 5.5 kW/24 V
- · Steering wheel, tiltable, telescopic
- Sun visor
- Tires (20.5-25-16PR, L3 tubeless) and rims
- Transmission, 4 forward and 4 reverse

OPTIONAL EQUIPMENT

- 3-spool valve
- Additional counterweight
- Air conditioner
- AM/FM radio
- AM/FM stereo radio cassette
- Auto air conditioner
- Batteries, 140 Ah/2 x 12V
- Bucket teeth (bolt-on type)
- Bucket teeth (tip type) Counterweight for log

- Cutting edge (bolt-on type)
- Deluxe suspension seat
- ECSS (Electronically Controlled Suspension System)
- Emergency steering (SAE)
- Engine pre-cleaner with extension
- Floor mat
- High lift boom
- Joystick steering
- Limited slip differential (F&R)

- Lock-up clutch torque converter
- Log grapple
- Ordinary spare parts
- Power train guard
- Rear fender
- Tool kit
- Vandalism protection kit

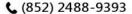
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