NET HORSEPOWER

142 kW 191 HP @ 2100 rpm

OPERATING WEIGHT 17580 - 17960 kg

38,760 - 39,600 lb

BUCKET CAPACITY

2.9 - 4.0 m³ 3.8 - 5.2 yd³



WHEEL LOADER



WA380-6 With Tier 3 Engine



Photos may include optional equipment.

WALK-AROUND

Komatsu-integrated design offers the

best value, reliability, and versatility. Hydraulics, powertrain, frame, and all other major components are engineered by Komatsu. You get a machine whose components are designed to work together for higher production, greater reliability, and more versatility.

High Productivity & Low Fuel Consumption

- High performance SAA6D107E engine
- Low fuel consumption
- Dual-mode engine power select system
- Automatic transmission with shift timing select system
- Variable displacement piston pump & Closed-Center Load Sensing System(CLSS)

Excellent Operator Environment

- Automatic transmission with Electronically Controlled Modulation Valve (ECMV)
- Electrically controlled transmission lever
- Variable transmission cut-off system
- Telescopic/tilt steering column
- Fingertip control levers

KOMATSU

- Low-noise designed cab
- Large ROPS/FOPS cab-integrated
- Easy entry/exit, rear-hinged doors



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

WHEEL LOADER

WA380-6

NET HORSEPOWER 142 kW **191 HP** @ 2100 rpm

OPERATING WEIGHT

17580 - 17960 kg **38,760 - 39,600 lb**

BUCKET CAPACITY 2.9 - 4.0 m³ **3.8 - 5.2 yd³**

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
- Sealed DT connectors for electrical connections



Environmentally Friendly

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

Photos may include optional equipment.

HIGH PRODUCTIVITY AND LOW FUEL CONSUMPTION



Komatsu's new "ecot3" engines are designed to deliver optimum performance under the toughest of conditions,

while meeting the latest environmental regulations. This engine is EPA Tier 3, EU Stage 3A and Japan emissions certified; "ecot3" - ecology and economy combine with Komatsu technology to create a high performance engine without sacrificing power or productivity.

High Performance SAA6D107E 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 meets EPA Tier 3 emission regulations and EU stage 3A emission regulations, 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 general loading.
- P Mode: This mode provides maximum power output for hard digging operation or hill climb.



selection switch

Eco Indicator

The Eco Indicator will inform the operator when the machine is maximizing fuel efficiency.



Automatic Transmission with Mode Select System

This operator controlled system allows the selection of manual shifting or two levels of automatic shifting modes



(low and high). The operator can match the machine's operating requirements with opitimum performance efficiency. This system is controlled with a dial on the right control panel.

Shift mode selection switch

- **Manual:** The transmission is fixed to the gear speed and selected with the gear lever.
- **Auto Low:** Low mode provides smooth gear shifting at low engine speeds suitable for general excavating and loading while offering reduced fuel consumption.
- Auto High: High mode provides maximum rim pull and fast cycle times by shifting the transmission at high engine speeds. This mode is suitable for hill-climb and load and carry operations

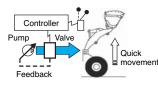


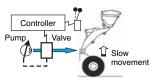


Variable Displacement Piston Pump and CLSS

New design 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 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.

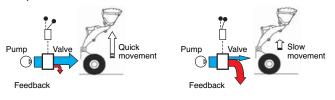


Photo may include optional equipment.

Maximum Dumping Clearance and Reach

The long lift arms provide high dumping clearances and maximum dumping reach.

Dumping Clearance: 2950 mm 9'8" Dumping Reach: 1150 mm 3'9" (3.3 m³ 4.3 yd³ bucket with B.O.C.)

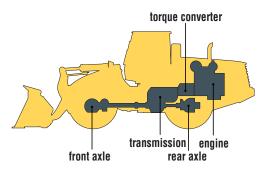
Lock-Up Torque Converter (option)

The Komatsu designed lock-up torque converter provides increased production efficiency, reduced cycle times and optimum fuel savings in load & carry or hillclimb operations. This optional feature allows the operator to activate the system on/off with a switch located on the right-side control panel.

INCREASED RELIABILITY

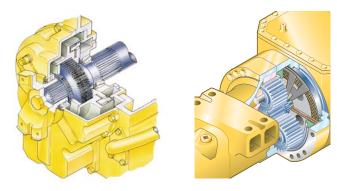
Komatsu Components

Komatsu manufactures the engine, torque converter, transmission, hydraulic units and electric parts 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 result in lower maintenance costs and higher reliability. The wet disc service and parking brakes are fully sealed and adjustment-free to reduce contamination, wear and maintenance. Added reliability is designed into the braking system by the use of two independent hydraulic circuits providing hydraulic backup should one of the circuits fail. If the brake oil pressure drops, a warning lamp flashes and an alarm sounds intermittently. If the brake pressure continues to drop, the parking brake is automatically applied.



High-Rigidity Frames and Loader Linkage

The front and rear frames along with the loader linkage have high rigidity to withstand repeated twisting and bending loads to the loader body and linkage,

Both the upper and lower center pivot bearings use tapered roller bearings for increased durability



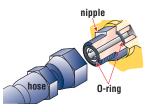
Flat face-to-face O-ring seals are used to securely seal hydraulic hose connections and prevent oil leakage.

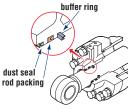
Cylinder Buffer Rings

Buffer rings are installed to the head-side of the all-hydraulic cylinders to lower the load on the rod seals, prolong cylinder life by 30% and maximize overall reliability.

Sealed DT Connectors

Main harnesses and controller connectors are equipped with sealed DT connectors providing high reliability, dust and corrosion resistance.







WA380-6

EASY MAINTENANCE



Main Monitor-EMMS (Equipment Management Monitoring System)

Komatsu's new main monitor keeps the operator informed of all



machine functions at a glance. The monitor is located behind the steering wheel and displays different machine functions including fluid/filter change intervals and troubleshooting memory display functions. The main gauges are analog type for easy viewing and other functions utilize lighted symbols or LCD readouts.

Maintenance Control and Troubleshooting Functions

- Action code display function: If an abnormality occurs, the monitor displays action details on the character display at the bottom center of the monitor.
- Monitor function: Controller monitors engine oil level, pressure, coolant temperature, air cleaner clogging, etc.
 If controller finds abnormalities, the error is displayed on LCD.
- **Replacement time notice function:** Monitor informs replacement time of oil and filters on LCD when replacement intervals are reached.
- **Trouble data memory function:** Monitor stores abnormalities for effective troubleshooting.

Full Side-Opening Gull-Wing Engine Doors

Ground level engine service and daily service checks are made easy with the gas spring assisted full side-opening gull-wing doors.

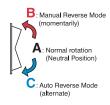


Easy Radiator Cleaning

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

Automatic Reversible Fan

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





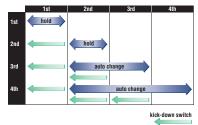
OPERATOR ENVIRONMENT

Easy Operation

Automatic Transmission with Electronically Controlled Modulation Valve (ECMV)

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

Electrically Controlled Transmission Levers



The Komatsu two-lever electronic shift control levers provide easy gear selection and directional changes. The transmission levers can be operated without removing the operator's hand

from the steering wheel, allowing improved comfort and control. 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

The operator can select the transmission cut-off pressure desired for the left brake pedal using the switch located on the right-side control panel.

• Higher cut-off pressure allows the transmission to remain engaged at higher engine rpm/hydraulic pressure for increased performance in ramp loading and stockpiling operations.

• Lower cut-off pressure disengages the transmission at lower rpm/hydraulic pressure for more fuel efficient operation on level surfaces.



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



WA380-6

Fingertip Work Equipment Control Levers with Large Arm Rest

New PPC control levers are used for the work equipment. The operator can easily operate the work equipment with fingertip controls, reducing operator fatigue and improving



fine work equipment control and productivity. The PPC control lever column can be slid forward or backward and the large-sized 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 both tilt and telescope the steering wheel to allow maximum comfort and control. The twospoke steering wheel allows maximum visibility of the monitor panel and the forward work environment.



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, and comfortable operating environment. Pressurization in the cab keeps dirt out further enhancing the operator's comfort.

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. The front

mounted air conditioner was introduced to increase seat reclining and backward slide adjustment.

Rear-hinged Full Open Cab Doors

Entry and exit into the new Komatsu cab starts with sloped staircase type steps and large diameter handrails for added comfort. The large cab doors are rear-hinged to open fully offering easy entry/exit and will not hamper visibility when operating the machine with the doors latched open.



SPECIFICATIONS



ENGINE

	Komatsu SAA6D107E
Туре	Water-cooled, 4-cycle
Aspiration	Turbocharged, aftercooled
Bore x stroke	107 mm x 124 mm 4.21" x 4.88"
Piston displacement	6.69 ltr 408 in ³
	All-speed, electronic
Horsepower	
SAE J1995	Gross 143 kW 192 HP
ISO 9249/SAE J1349	Net 142 kW 191 HP
Hydraulic fan at maximum spee	d Net 133 kW 179 HP
,	
	ling Hydraulic
	Direct injection
Lubrication system:	-
Method	Gear pump, force-lubrication
	Full-flow type
	. Dry type with double elements and
	dust evacuator, plus dust indicator

Torque converter:

Type 3-element, single-stage, single-phase Transmission:

Type Automatic, full-powershift, countershaft type

Travel speed: km/h mph							
Measured w	rith 23.5 - 25 ti	res ():L	(): Lock-up clutch ON				
	1st	2nd	3rd	4th			
Forward	6.6 4.1	11.5 7.1	20.2 12.6	34.0 21			

Forward	6.6 4.1	11.5 7.1	34.0 21.1 (35.7 22.2)
Reverse	7.1 4.4	12.3 7.6	35.5 22.1 (40.9 25.4)

AXLES AND FINAL DRIVES

Four-wheel drive
Fixed, semi-floating
nter-pin support, semi-floating,
26° total oscillation
Spiral bevel gear
Conventional type
Planetary gear, single reduction



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



STEERING SYSTEM

Туре	Articulated type, full-hydraulic power steering
Steering angle	40° each direction
Minimum turning radius	
the center of outside tin	e 6320 mm 20'9 "

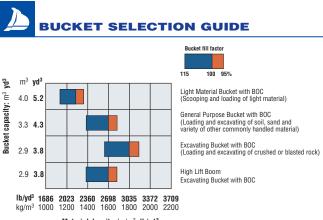
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	HYDRAULIC	SYSTEM
din.	a system:	

Steering system: Hydraulic pump Piston pump Capacity 138 ltr/min 36.5 U.S. gal/min at rated rpm Relief valve setting 24.5 MPa 250 kgf/cm² 3,555 psi Hydraulic cylinders: Type 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
Relief valve setting
Hydraulic cylinders:
Type
Number of cylinders-bore x stroke:
Boom cylinder
Bucket cylinder1- 150 mm x 535 mm 5.9" x 21.1"
Control valve 2-spool type
Control positions:
Boom
Bucket
Hydraulic cycle time (rated load in bucket)
Raise
Dump 1.8 sec
Lower (Empty)

SERVICE REFILL CAPACITIES

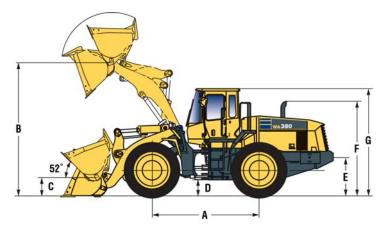
Cooling system 20.5 It	r 5.4 U.S. gal
Fuel tank	79.3 U.S. gal
Engine	r 6.1 U.S. gal
Hydraulic system	36.6 U.S. gal
Axle (each front and rear) 40 lt	r 10.6 U.S. gal
Torque converter and transmission	r 10.0 U.S. gal







Measured with 23.5-25-16PR(L3) tires, ROPS/FOPS cab



	Tread	2160 mm	7'1"	
	Width over tires		2780 mm	9'1"
А	Wheelbase		3300 mm	10'10"
В	Hinge pin height	Standard Boom	4095 mm	13'5"
max. height		High Lift Boom	4625 mm	15'2"
С	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"
Е	Hitch height		1150 mm	3'9"
F	Overall height, top of the stack		2975 mm	9'9"
G	Overall height, ROPS cab		3390 mm	11'2"

	General Purpose Bucket	Excavating Bucket	Light Material Bucket	High Lift Boom
	Bolt-on	Bolt-on	Bolt-on	Bolt-on
	Cutting edge	Cutting edge	Cutting edge	Cutting edge
Bucket capacity: heaped	3.3 m³	2.9 m³	4.0 m³	2.9 m³
	4.3 yd ³	3.8 yd ³	5.2 yd ³	3.8 yd ³
struck	2.9 m³	2.4 m³	3.4 m³	2.4 m³
	3.8 yd ³	3.1 yd ³	4.4 yd ³	3.1 yd ³
Bucket width	2905 mm	2905 mm	2905 mm	2905 mm
	9'6''	9'6''	9'6''	9'6''
Bucket weight	1620 kg	1720 kg	1835 kg	1720 kg
	3,570 lb	3,790 lb	4,045 lb	3,790 lb
Dumping clearance, max. height and 45° dump angle*	2950 mm	3045 mm	2855 mm	3575 mm
	9'8''	10'0''	9'4''	11'9''
Reach at max. height	1150 mm	1055 mm	1240 mm	1185 mm
and 45° dump angle*	3'9''	3'6''	4'1"	3'11''
Reach at 2130 mm (7') clearance and 45° dump angle	1735 mm	1680 mm	1780 mm	2205 mm
	5'8''	5'6''	5'10''	7'3''
Reach with arm horizontal and bucket level	2590 mm	2450 mm	2715 mm	2940 mm
	8'6 "	8'0''	8'11''	9'8''
Operating height (fully raised)	5600 mm	5470 mm	5720 mm	5985 mm
	18'4"	17'11''	18'9"	19'7''
Overall length	8140 mm	8000 mm	8265 mm	8780 mm
	26'8''	26'3"	27'1"	28'10''
Loader clearance circle	14440 mm	14370 mm	14500 mm	14850 mm
(bucket at carry, outside corner of bucket)	47'5''	47'2''	47'7"	48'9''
Digging depth: 0°	60 mm	60 mm	60 mm	110 mm
	2.4 "	2.4 "	2.4 "	4.3 "
10°	290 mm	265 mm	315 mm	320 mm
	11.4 "	10.4 "	1'0''	12.6 "
Static tipping load: straight	14560 kg	14460 kg	14330 kg	12080 kg
	32,100 lb	31,880 lb	31,590 lb	26,630 lb
40° full turn	12610 kg	12505 kg	12375 kg	10460 kg
	27,800 lb	27,570 lb	27,280 lb	23,060 lb
Breakout force	158 kN	176 kN	144 kN	183 kN
	16100 kgf	18000 kgf	14700 kgf	18700 kgf
	35,495 lb	39,680 lb	32,405 lb	41,220 lb
Operating weight	17580 kg	17960 kg	17810 kg	18530 kg
	38,760 lb	39,600 lb	39,260 lb	40,850 lb

* At the end of B.O.C.

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.



NEIGHT CHANGES

Apply the following weight changes to operating weight and static tipping load.

Tires or Attachments	Operating Weight		Tipping Load Straight		Tipping Load Full Turn	
	kg	lb	kg	lb	kg	lb
OPT counterweight	+340	+750	+900	+1,985	+755	+1,665



- · 2-spool valve for boom and bucket controls
- · Air conditioner
- Alternator, 60 A
- · Auto shift transmission with mode
- select system · Automatic hydraulic-driven fan with
- reverse rotation
- Back-up alarm
- · Back-up lamp
- Batteries, 150 Ah/12 V x 2 1.000 CCA
- · Boom kick-out
- Bucket positioner
- Counterweight
- · ECSS (Electronically Controlled Suspension System)
- Engine, Komatsu SAA6D107E diesel
- · Engine shut-off system, electric
- Floormat
- Front fenders
- · Fuel pre-filter with water separator
- · Hard water area arrangement

- (corrosion resister) KOMTRAX[®]
- · Lift cylinders and bucket cylinder
- · Loader linkage with standard lift arm
- · Main monitor panel with EMMS (Equipment Management Monitoring System)
 - Gauges (Speedometer/tachometer. engine water temperature, fuel level, hydraulic temperature, torque converter temperature
 - -LCD displays (service meter/ troubleshooting, shift indicator)
 - Lights (central warning, brake oil pressure, engine oil pressure, engine oil level, air cleaner restriction, parking brake, axle oil temperature, reverse cooling fan, oil change required, battery electrolyte level, radiator water level, engine preheat, battery charge, steering oil pressure, auxillary steering, power mode, joystick steering option,

directional indicator, auto shift, torque converter lockup option, shift hold, gear position, torque converter temperature, engine water temperature, turn signals, high beam, rpm/mph display, hydraulic temperature, fuel level)

- · PPC fingertip control, two levels
- · Radiator mask. lattice type
- · Rear defroster (electric)
- · Rearview mirrors for cab
- · Rear window washer and wiper
- · ROPS/FOPS cab
- · Seat, air suspension type with reclining
- · Seat belt, 76 mm 3" wide
- · Service brakes, wet disc type
- Starting motor, 24 V/7.5 kW
- · Steering wheel, tiltable telescopic
- Sun visor
- Rims for 23.5-25-16PR L3 tires
- Transmission, 4 forward and 4 reverse
- · Vandalism protection kit

OPTIONAL EQUIPMENT

- 3-spool valve with lever and piping
- Additional counterweight
- · AM/FM stereo radio cassette
- Cutting edge (bolt-on type)



- JRB bucket, General Purpose 4.0 yd³ for use with coupler
- JRB bucket, Multi-purpose 3.25 yd³ for use with coupler
- · JRB fork, Construction 106" carriage, 60" tines for use with coupler
- · JRB fork, Utility Pallet 96" carriage,

· Engine pre-cleaner with extension

- · JRB boom-Extendable 3 section,
- JRB hydraulic guick coupler

- Monolever loader control with transmission F/R switch
- Power train guard
- · Rear full fenders
- · Loadrite weighing system, Force model
- · Loadrite weighing system, Pro model
- Loadrite weighing system, Printer, LP950
- · Loadrite weighing system, Pro model with Material Management System

AFSS711-02

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Emergency steering (SAE)

· Limited slip differential (F&R)

· Lock-up clutch torque converter

- 72" tines for use with coupler
- 13' 7" extension for use with coupler

K12(7.5M) C

12/06 (EV-4)