NET HORSEPOWER

103 kW 138 HP @ 2000 rpm

OPERATING WEIGHT 11540 - 11750 kg

25,441 - 25,904 lb BUCKET CAPACITY

1.9 - 2.7 m³ 2.5 - 3.5 yd³





KOMATSU[®] WA250-6

WALK-AROUND

Excellent Operator Environment

- HST traction control switch
- Electrically controlled directional lever
- Tiltable steering column
- Low-noise designed cab
- Pillar-less large ROPS/FOPS Level 2 cab-integrated
- Easy entry/exit, rear-hinged doors

KOMATSU

High Productivity & Low Fuel Consumption with Hydrostatic Transmission

- High performance SAA6D107E-1 engine
- Low fuel consumption
- Electronically-controlled HST with variable shift control system
- Variable traction control system
- S-mode

K@MTRAX®

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.

Environmentally Friendly

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

WA250-6

WHEEL LOADER

Reliability

- Reliable Komatsu designed and manufactured components
- Sturdy main frame
- Adjustment-free, fully hydraulic, wet disc service and parking brakes
- Hydraulic hoses use flat face
 O-ring seals
- Cathion electrodeposition process is used to apply primer paint
- Powder coating process is used to apply main structure paint
- Sealed DT connectors for electrical connections

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OPERATING WEIGHT

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BUCKET CAPACITY 1.9 - 2.7 m³

2.5 - 3.5 yd³



Easy Maintenance

- Equipment Management Monitoring System (EMMS)
- Easy access, gull-wing type engine side doors
- Automatic Reversible Fan
- KOMTRAX®

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 quick throttle response to match the machine's powerful tractive effort and quick hydraulic response.

Net: 103 kW 138 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 high-torque engine and Hydrostatic Transmission (HST) with maximum efficiency in the low-speed range provide low fuel consumption.

Eco Indicator

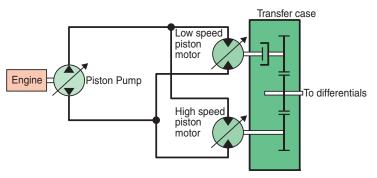
The eco indicator will help an operator to promote energy saving.



Hydrostatic Transmission (HST)

Electronically-Controlled HST Using a 1-Pump, 2-Motor System

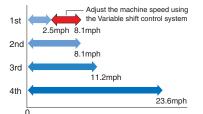
- The 1-pump, 2-motor system allows high-efficiency and high tractive effort. Engine power is transmitted hydraulically to a transfer case, then mechanically out to the differentials and out to the four driving wheels.
- HST provides quick travel response and aggressive drive into the pile. The variable displacement system automatically adjusts to the tractive effort demand to provide maximum power and efficiency.
- Full auto-shifting eliminates any gear shifting and kickdown operation to allow the operator to concentrate on digging and loading.
- When high drive torque is needed for digging, climbing, or initiating movement, the pump feeds both motors. This combination makes the loader very aggressive and quick.
- Under deceleration, the HST system acts as a dynamic brake on the mechanical drive system. The dynamic brake can hold the loader in position on most workable slopes. This can be an advantage in stockpiling and ramp loading.
- As the machine moves and gains ground speed, the torque demand decreases and the low speed motor is effectively removed from the drive system by a clutch. At this point, the flow is going to the high-speed motor and the low-speed motor is not causing drag on the system.
- An inching pedal gives the operator excellent simultaneous control of his travel and equipment hydraulic speeds. By depressing the inching pedal, drive pump flow to the motors will decrease, reducing ground speed and allowing the operator to use his accelerator to increase flow to his equipment hydraulics. Depressing the inching pedal further will activate the service brakes.



Electronically-Controlled HST with Variable Shift **Control System**

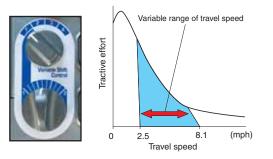
The operator can choose between first, second, third or fourth maximum speeds by dialing the speed range selector switch. For V-cycles, the operator can set the speed control switch to 1 or 2, which provides

aggressive digging, quick response, and fast hydraulics. For load and carry, select 3 or 4 which still provides aggressive digging but with much faster travel speed.



The variable shift switch

allows the operator to adjust machine speed in applications such as confined V-loading. When in 1, the operator can adjust travel speed using the variable shift switch to match machine speed and hydraulics to the distance travelled. This feature is also useful when powering a broom or snowblower.



effort

Variable Traction Control System

The tractive effort of the machine, when traveling at a low speed, can be reduced by using the traction control switch. Combined with torque proportioning differentials, or optional limited slip differentials this system provides the following benefits.

Facilitates operation on soft ground

where the tires of the machine are apt

penetration and reduces tire slippage during stockpile loading to improve the

Eliminates excessive bucket

to slip.

Max: Traction control switch is OFF. (Max, tractive effort) Max. tractive effort can be adjusted in 3 stages when the traction control switch is ON Tractive ດ່

Travel speed



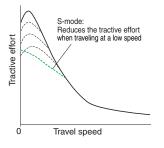
work efficiency. Reduces tire slippage to extend the life of tires.

Furthermore, the maximum tractive effort can be adjusted in three stages (one stage for conventional machines) when the traction control switch is ON. This allows the operator to select the optimum tractive effort for diversified road conditions.

S-mode

Setting the switch to S-mode provides optimum driving force for operations on slippery road surfaces, like snow-removal on snow-covered surfaces, resulting in reduced tire slippage and

facilitation of the operation. Unexpected tire slippage on slippery road surfaces is suppressed by controlling the engine speed and HST motor when traveling at a low speed. (S-mode is effective only in forward travel.)



Max. Traction Switch

Max. traction switch is located on the work equipment control lever. When the traction control switch is at the ON position or S-mode is selected, pushing this switch cancels the setting of the traction control temporarily and increases the tractive effort to its 100 % value. Then pushing the max. traction switch again or operating the F/R lever returns the tractive effort to the set value automatically. This switch is useful for operations such as stockpile work where large tractive effort is required temporarily.

Accelerator Pedal Sensitive HST Control

Finely-tuned HST control according to the accelerator pedal angle reduces shocks and allows smoother traveling and better energy-saving operation.



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.

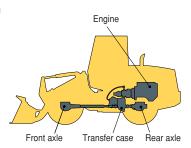
Dumping Clearance: 2850 mm 9'4" Dumping Reach: 985 mm 3'3" (2.3 m³ 3.0 yd³ bucket with B.O.C.E.)

RELIABILITY

Komatsu Components

Komatsu manufactures the engine, transfer case, and

hydraulic components 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

This means 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, providing hydraulic backup should one of the circuits fail. Fully hydraulic brakes mean no air system to bleed and no condensation of water in the system that can lead to contamination, corrosion, and freezing.





Overrun Reduction System

When the machine descends a slope of six degrees or less, maximum travel speed is automatically restricted to approximately 38 km/h **23 mph**, for protection against damage of power train components and brakes, by sensing the travel speed and controlling the discharge amount of the HST pump and motor. When the machine descends a steep slope and the travel speed reaches 36 km/h **22 mph**, the caution lamp lights up to inform the operator to reduce the travel speed.

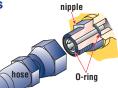
Note: When the machine descends a steep slope, the use of the service brake is necessary to limit travel speed.

High-rigidity Frames and Loader Linkage

The front and rear frames and the loader linkage have more torsional rigidity to provide increased resistance to stresses. The frames and loader linkage are designed to accommodate actual working loads, and simulated computer testing proves their strength.



Flat face-to-face O-ring seals are used to securely seal hydraulic hose connections.



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. 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.



WHEEL LOADER

WA250-6

EASY MAINTENANCE



Equipment Management Monitoring System (EMMS)

Monitor is mounted in front of the operator for easy

viewing, 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 an abnormality occurs, the monitor displays action details on the character display at the center bottom of the monitor.
- Monitor function: Controller monitors engine oil pressure, coolant temperature, air cleaner clogging, etc.
 If the controller finds abnormalities, the error is displayed on the LCD.
- **Replacement time notice function:** Monitor informs replacement time of oil and filters on the LCD when replacement intervals are reached.
- 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 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 intermittently for 2 minutes every 2 hours. (Default setting)



B: Manual Reverse ModeA: Normal Rotation ModeC: Auto Reverse Mode

OPERATOR ENVIRONMENT

Easy Operation

Electronically Controlled Directional Lever

The operator can change direction with the touch of a finger

without removing their hand from the steering wheel. Solid state electronics makes this possible.



Multi-function Loader Control Lever with Forward & Reverse Switch

A new multi-function control lever integrated with forward and reverse switch allows the operator to easily operate the work

equipment, to reduce operator fatigue and to increase controllability. The adjustable wrist rest provides the operator with a variety of comfortable operating positions.

Right-side Control Panel

The operator can select the speed range, maximum travel speed in 1st, tractive effort, and reversible fan setting.



- 1: Speed range selector switch 2: Variable shift switch
- 4: Max. traction switch 5: Fan reverse switch
- 3: Traction control switch

Tiltable Steering Column

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





WA250-6

Comfortable Operation

Low-noise Design

Noise level at operator's ear: 70 dB(A) Dynamic noise level (outside): 104 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

ully ted

with rubber cushions, and the cab sealing is improved to provide a quiet, low-vibration, pressurized, and comfortable operating environment.



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 large cab area provides 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

The large cab doors are rear-hinged to open fully, offering easy entry/exit. Exit from the cab is easily accomplished by having steps in view of the operator. Sloped hand rails help guide the foot on to the first step.







Photos may include optional equipment.

SPECIFICATIONS



Model
TypeWater-cooled, 4-cycle AspirationTurbocharged, aftercooled
Number of cylinders 6
Bore x stroke 107 mm x 124 mm 4.21" x 4.88"
Piston displacement 6.69 ltr 408 in ³
Governor All-speed, electronic
Horsepower
SAE J1995Gross 104 kW 140 HP
ISO 9249/SAE J1349Net 103 kW 138 HP
Hydraulic fan at maximum speedNet 100 kW 134 HP
Rated rpm 2000 rpm
Fan drive method for radiator coolingHydraulic
Fuel system
Lubrication system:
MethodGear pump, force-lubrication
Filter Full-flow type
Air cleanerDry type with double elements and
dust evacuator, plus dust indicator

EPA Tier 3 and EU Stage 3A emissions certified.

TypeHydrostatic, 1 pump, 2 motors with speed range select

Travel speed: km/h mph

Measured with 17.5-25 tires

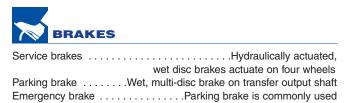
	1st	2nd	3rd	4th
Both Forward	3.6 - 11.7	11.7	16.2	34.2
and Reverse	2.2 - 7.3	7.3	10.1	21.2

Measured with 20.5-25 tires

	1st	2nd	3rd	4th
Both Forward	4.0 - 13.0	13.0	18.0	38.0
and Reverse	2.5 - 8.1	8.1	11.2	23.6

AXLES AND FINAL DRIVES

Drive system	Four-wheel drive
Front	Fixed, semi-floating
RearC	enter-pin support, semi-floating,
	24° total oscillation
Reduction gear	Spiral bevel gear
Differential gear	Torque proportioning
Final reduction gear	Planetary gear, single reduction





Туре	Full-hydraulic power steering
Steering angle	. 38° each direction (40° end stop)
Minimum turning radius at	
the center of outside tire	

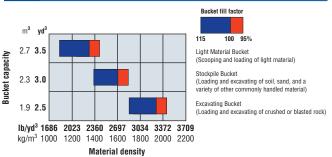
HYDRAULIC SYSTEM



Steering system: Hydraulic pump Capacity
Loader control: Hydraulic pump
Type Double-acting, piston type Number of cylinders—bore x stroke: Boom cylinder Boom cylinder 2- 130 mm x 717 mm 5.1" x 28.2" Bucket cylinder 1- 150 mm x 491 mm 5.9" x 19.3" Control valve 2-spool type Control positions: Boom Boom Raise, hold, lower, and float
Bucket Tilt-back, hold, and dump Hydraulic cycle time (rated load in bucket) 6.3 sec Raise 6.3 sec Dump 1.7 sec Lower (Empty) 3.6 sec

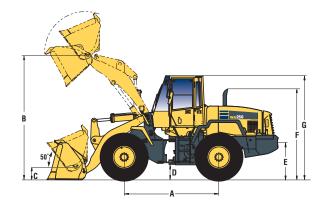
Cooling system	5.8 U.S. gal
Fuel tank 186 ltr	49.1 U.S. gal
Engine	6.1 U.S. gal
Hydraulic system	17.7 U.S. gal
Axle (each front and rear) 18 ltr	4.8 U.S. gal
Transfer case	1.3 U.S. gal

SERVICE REFILL CAPACITIES



WHEEL LOADER





			17.5-25 tires		20.5-25 tires	
	Tread		1930 mm	6'4"	1930 mm	6'4"
	Width over tires		2375 mm	7'10"	2470 mm	8'1"
Α	Wheelbase		2900 mm	9'6"	2900 mm	9'6"
В	Hinge pin height,	Standard Boom	3725 mm	12'3"	3795 mm	12'5"
	at max. height	High Lift Boom	4320 mm	14'2"	4390 mm	14'5"
С	Hinge pin height,	Standard Boom	375 mm	1'3"	450 mm	1'6"
	at carry position	High Lift Boom	540 mm	1'9"	615 mm	2'0"
D	Ground clearance		395 mm	1'4"	465 mm	1'6"
Ε	Hitch height		880 mm	2'11"	950 mm	3'1"
F	Overall height, top of the stack		2855 mm	9'4"	2925 mm	9'7"
G	Overall height, R	OPS cab	3130 mm	10'3"	3200 mm	10'6"

Measured with 20.5-25-12PR (L2) tires, ROPS/FOPS cab

Measured with 20.5-25-12PR (L2) tires, ROPS/FOPS cab							
	Stockpile Bucket	Excavating Bucket	Light Material Bucket	Excavating Bucket			
	Bolt-On	Bolt-On	Bolt-On	Bolt-On			
	Cutting Edges	Cutting Edges	Cutting Edges	Cutting Edges			
Bucket capacity: heaped	2.3 m³	1.9 m³	2.7 m³	1.9 m³			
	3.0 yd³	2.5 yd ³	3.5 yd³	2.5 yd ³			
struck	2.0 m³	1.6 m³	2.3 m³	1.6 m³			
	2.6 yd³	2.1 yd ³	3.0 yd³	2.1 yd ³			
Bucket width	2685 mm	2685 mm	2685 mm	2685 mm			
	8'10''	8'10''	8'10''	8'10''			
Bucket weight	960 kg	905 kg	1050 kg	905 kg			
	2,116 lb	1,995 lb	2,315 lb	1,995 lb			
Dumping clearance, max. height	2850 mm	2925 mm	2755 mm	3520 mm			
and 45° dump angle*	9'4"	9'7''	9'0''	11'7''			
Reach at max. height and 45° dump angle *	985 mm	910 mm	1080 mm	945 mm			
	3'3"	3'0"	3'7"	3'1"			
Reach at 2130 mm 7' clearance	1495 mm	1455 mm	1540 mm	1965 mm			
and 45° dump angle*	4'11''	4'9''	5'1"	6'5''			
Reach with arm horizontal and bucket level *	2235 mm	2130 mm	2360 mm	2600 mm			
	7'4''	7'0''	7'9''	8'6''			
Operating height (fully raised)	5065 mm	4945 mm	5200 mm	5540 mm			
	16'7"	16'3''	17'1"	18'2"			
Overall length	7055 mm	6950 mm	7185 mm	7495 mm			
	23'2''	22'10"	23'7"	24'7''			
Loader clearance circle (bucket at carry, outside corner of bucket)	12060 mm	12030 mm	12220 mm	12075 mm			
	39'7"	39'6''	40'1"	39'7''			
Digging depth: 0°	75 mm	75 mm	75 mm	80 mm			
	3.0"	3.0"	3.0"	3.1 "			
10°	265 mm	245 mm	285 mm	250 mm			
	10.4 "	9.7"	11.2 "	9.8 "			
Static tipping load: straight	11960 kg	12080 kg	11805 kg	9295 kg			
	26,367 lb	26,632 lb	26,026 lb	20,492 lb			
40° full turn	10525 kg	10630 kg	10385 kg	8180 kg			
	23,204 lb	23,435 lb	22,895 lb	18,034 lb			
Breakout force	121 kN	136 kN	108 kN	117 kN			
	12340 kgf	13850 kgf	11000 kgf	11960 kgf			
	27,210 lb	30,535 lb	24,250 lb	26,367 lb			
Operating weight	11545 kg	11540 kg	11685 kg	11750 kg			
	25,448 lb	25,441 lb	25,761 lb	25,904 lb			

* At the end of 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 AND DIMENSION CHANGES

	Chan	ge in		Change in	Tipping Lo	ad	Change	e in	Change	e in
	Operating	g Weight	Stra	ight	Full	Turn	Vertical Dim	ensions	Reac	h
17.5-25-16PR (L2)	–280 kg	-617 lb	–215 kg	-474 lb	–190 kg	-419 lb	-70 mm	-2.8"	70 mm	2.8"
17.5-25-16PR (L3)	–225 kg	-496 lb	–170 kg	-375 lb	–155 kg	-342 lb	-70 mm	-2.8"	70 mm	2.8"
20.5-25-12PR (L3)	150 kg	331 lb	110 kg	243 lb	90 kg	198 lb	0 mm	0"	0 mm	0"
Install ROPS canopy (instead of cab)	–150 kg	-331 lb	–150 kg	-331 lb	–130 kg	–287 lb				

- 2-spool valve for boom and bucket controls
- Air conditioner
- Alternator, 60 A
- Auto shift transmission with mode select system
- Back-up alarm
- Back-up lamp
- Batteries, 110 Ah/2 x 12 V
- Bucket positioner
- Counterweight, standard and additional (300 kg 661 lb)
- Deluxe suspension seat
- Directional signal

- Engine, Komatsu SAA6D107E-1 diesel
- Engine shut-off system, electric
- Floor mat
- Fuel pre-filter with water separator
- Hydraulic-driven fan with auto-reverse rotation
- KOMTRAX[®]
- Lift cylinders and bucket cylinder
- Loader linkage with standard lift arm
- Main monitor panel with Equipment Management Monitoring System (EMMS)
- Mono-lever loader control with transmission F/R switch

- Radiator mask, lattice type
- Rear defroster (electric)
- Rear view mirrors, inside (2), outside (3)
- Rear window washer and wiper
- Rims for 20.5-25 tires
- ROPS/FOPS Level 2 cab
- Seat belt
- Service brakes, wet disc type
- Starting motor, 4.5 kW/24 V
- Steering wheel, tiltable
- Sun visor
- Transmission speed ranges, 4 forward and 4 reverse

- 3-spool valve
- AM/FM stereo radio cassette
- Boom kick-out
- Cutting edge (bolt-on type)
- Electronically Controlled Suspension System (ECSS)
- Engine pre-cleaner with extension
- High lift boom arrangement

- JRB bucket, general purpose, for use with coupler, with BOCE 1.9 m³ 2.5 yd³
- JRB bucket, general purpose, for use with coupler, with BOCE 2.3 m³ 3.0 yd³
- JRB construction forks, for use with coupler 1524 mm 60"
- JRB utility forks, for use with coupler, 1372 mm **54**"
- JRB extendable boom, for use with coupler, 3-section
- JRB hydraulic quick coupler
- Limited slip differential (F&R)
- Rear full fenders
- Rims for 17.5-25 tires
- Secondary steering (SAE)
- Wide core radiator

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Printed in USA

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