HORSEPOWER Gross: 396 kW 530 HP @ 1800 rpm Net: 393 kW 527 HP @ 1800 rpm

> **BUCKET CAPACITY** 6.4-7.0 m³ 8.4-9.2 yd³

> > WHEEL LOADER

KOMATSU® WA600-6R



Photo may include optional equipment.

WALK-AROUND

High Productivity & Low Fuel Consumption

- High performance Komatsu SAA6D170E-5 engine
- Low fuel consumption
- Dual-mode engine power select system
- Automatic transmission with shift timing select system
- Lock-up Torque Converter
- Variable displacement piston pump & Closed-center load sensing system (CLSS)
- Increased bucket capacity
- Long wheelbase

See pages 4 and 5.

Excellent Operator Environment

- Automatic transmission with Electronically Controlled Modulation Valve
- Low-noise designed cab
- Electronic controlled transmission lever
- Modulated clutch system
- Engine RPM set system with auto decel (Optional)
- Electronic Pilot Control levers
- Pillar-less large ROPS/FOPS (ISO 3471/ISO 3449) integrated cab
- Easy entry/exit, rear-hinged door

• Advanced Joystick Steering System (Optional)

MATSU

See pages 8 and 9.

Harmony with Environment

- U.S. EPA Tier 2 and EU Stage 2 emissions equivalent
- Low exterior noise
- Low fuel consumption

WA600-6R

Increased Reliability

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

See page 6.

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

HORSEPOWER

Gross: 396 kW 530 HP @ 1800 rpm Net: 393 kW 527 HP @ 1800 rpm

> BUCKET CAPACITY 6.4–7.0 m³ 8.4-9.2 yd³



Photo may include optional equipment.

Easy Maintenance

- Equipment Management Monitoring System
- KOMTRAX Plus (Optional)

See page 7.

- Ease of radiator cleaning
- Modular radiator core system

HIGH PRODUCTIVITY AND LOW FUEL CONSUMPTION



High Performance SAA6D170E-5 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. This engine is U.S. EPA Tier 2 and EU Stage 2 emissions equivalent.

Net: 393 kW 527 HP

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



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 in a relatively low rpm range for



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

Shift mode selection switch

Lock up clutch switch

Lock-up Torque Converter

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

Variable Displacement Piston Pump & CLSS

New design variable displacement piston pump combined with the CLSS delivers hydraulic flow just as the job requires preventing wasted 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





Increased Bucket Capacity Matches with One Class Higher Dump Truck



The WA600 can load 60t (70 Short ton) trucks with standard boom. The WA600-3 required an optional high lift boom and 6.4m³ bucket. The WA600-6 maintains good visibility for loading because of increased operator cab height.

Dumping Clearance: 3995 mm 13'1" Dumping Reach: 1800 mm 5'11" (6.4 m³ 8.4 yd³ spade nose bucket with tooth)

Long Wheelbase/Articulation Angle of 43°

The widest tread in class and the long wheelbase provide improved machine stability in both longitudinal and lateral directions. Since the articulation angle is 43°, the operator can work efficiently even in the tightest job sites.

Tread	2650 mm	8'8"
Wheelbase	4500 mm	14'9"
Minimum turning radius (center of outside tire)	7075 mm	23'3"



WA600-6R

INCREASED RELIABILITY

Komatsu Components

Komatsu manufactures the engine, torque converter, transmission, hydraulic units, electric parts, on this wheel loader. Komatsu loaders are manufactured

with an integrated production system under a strict quality control system.



Wet Multiple-disc Brakes and Fully Hydraulic Braking System

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



Sweeper Wing (Large Size Tire Guard)

To prevent tire damage, the WA600 provides a Sweeper Wing (Large size Tire Guard) on both sides of bucket.



High-rigidity Frames and Loader Linkage

The front and rear frames and the loader linkage have more torsional rigidity to secure resistance against increased stress 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.



Cation Electrodeposition Primer Paint/ Powder Coating Final Paint

Cation electrodeposition paint is applied as a primer paint and powder coating is applied as topcoat to the exterior sheet metal 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 Connectors

Main harnesses and controller connectors are equipped

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



WA600-6R

EASY MAINTENANCE



Equipment Management Monitoring System

Monitor is mounted in front of the operator for easy viewing, allowing the operator to easily

check gauges and warning lights.

Maintenance Control

and Troubleshooting Functions

- Action code display function: If 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 Liquid Crystal Display (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.

K@MTRAX Plus

(Optional)

KOMTRAX Plus is a management system for large mining equipment, which enables detailed monitoring of the fleet via satellite. Komatsu and distributors can analyze "vehicle health", other operating conditions and provide this information to the job site, using the Internet from a remote location, on a near-real time basis. As a result, customers receive timely vehicle maintenance, reduced maintenance expenses, downtime costs and avoid mechanical trouble.

Modular Radiator Core System

The modular radiator core is easy to replace without removing the entire radiator assembly.

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 a switch on the control panel.



OPERATOR ENVIRONMENT

Easy Operation

Automatic Transmission with Electronically Controlled Modulation Valve

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

• 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.

Electronic 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.

Modulated Clutch System

The Modulated Clutch System controls the tractive effort with left brake pedal from 100% to 20% of the converter output torque.

- Useful for smooth speed reduction when approaching dump trucks for loading.
- Easy control of tire slippage.
- Reduction of shocks in shifting from forward to reverse.



Engine RPM Set System with Auto Decel (Optional)

Engine Low idle RPM can be easily preset using a push button switch. The system provides auto decel for better fuel consumption.



1:ECSS 2:Remote Boom positioner switch 3:Remote bucket digging angle control switch 4:RPM set (On/Off) (option) 5:RPM idle set (option) 6:Semi-auto digging system (option) 7:Boom control 8:Bucket control

Steering Wheel with Telescopic/Tilt Column

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

WA600-6R

Electronic Pilot Control Levers

The finger control Electronic Pilot Control work equipment levers have light operating effort and short stroke facilitating easy operation. The operator's comfort is further increased by the full large size adjustable arm rests. Combined with CLSS, this system allows the following new functions for easy and efficient operation:

- Remote Boom Positioner with shockless stop function: The highest and lowest position of the bucket can be set from cab to match any truck body. Once the positioner is set, the bucket is smoothly stopped at desired position with no shock.
- Remote bucket digging angle control: The digging bucket angle can be easily set from cab to match of ground condition.
- Semi-auto digging system (optional): Bucket tilt operation can be automatically done when digging.

Advanced Joystick Steering System (Optional)

AJSS is a feedback steering system which has been incorporated to allow steering and forward and reverse selection to be controlled by wrist and finger control. With the feedback function added, the machine steering

angle is defined exactly the same angle as the lever tilt angle.





Comfortable Operation

Low-noise Design

Noise at operator's ear noise level (ISO 6396:2008): 76 dB(A) Dynamic noise level (outside) (ISO 6395:2008): 113 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 pressurized, and comfortable operating environment. Also, exterior noise is lowest





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.

Rear Access Stairs

For the purpose of safely boarding and exiting machine, rear access stairs with safety handrail is provided.

The step width, clearance, and the step angle have been designed for safety climbing both up and down. A step light provides light for night boarding.





WAGOO-GR WHEEL LOADER

Specifications



Model	
Horsepower SAE J1995 ISO 9249/SAE J1349* Rated rpm Fan drive method for radiator cooli Fuel system	Gross 396 kW 530 HP Net 393 kW 527 HP 1800 rpm ngHydraulic Direct injection
Method. Filter. Filter. Filter. Air cleaner Filter.	Gear pump, force-lubrication Full-flow type Dry type with double elements and dust evacuator, plus dust indicator

*Net horsepower at the maximum speed of radiator cooling fan is 374 kW 502 HP.

U.S. EPA Tier 2 and EU Stage 2 emissions equivalent.



Torque converter:

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

Type.....Full-powershift, planetary type Travel speed: **km/h** mph

Measured with 35/65-33 tires

(): Look-up clutch ON

			()		
	1st	2nd	3rd	4th	
Forward	6.7 4.2	11.7 7.3	20.3 12.6	33.8 21.0	
	—	(12.4 7.7)	(21.7 13.5)	(37.7 23.4)	
Reverse	7.3 4.5	12.8 8.0	22.0 13.7	37.0 23.0	

AXLES AND FINAL DRIVES

Drive system.	Four-wheel drive
Front	Fixed, full-floating
Rear	Center-pin support, full-floating,
	26° total oscillation
Reduction gear	Spiral bevel gear
Differential gear	Conventional type
Final reduction gear	Planetary gear, single reduction



Secondary brake Parking brake is commonly used



STEERING SYSTEM

Туре	Articulated type,	full-hydraulic pov	ver steering
Steering angle		43° ea	ch direction
Minimum turning radius	at		
the center of outside tire		707	5 mm 23'3"

HYDRAULIC SYSTEM

Steering system

Hydraulic pump Piston pump Capacity. 163 L/min 43.1 U.S. gal/min at rated rpm Relief valve setting 34.3 MPa 350 kgf/cm² 4,980 psi Hydraulic cylinders: Type Type Double-acting, piston type Number of cylinders 2 Bore x stroke 115 mm x 510 mm 4.5" x 20"
Loader control:
Hydraulic pump. Piston pump Capacity. 239 + 239 L/min 63.1 + 63.1 U.S. gal/min at rated rpm Relief valve setting 34.3 MPa 350 kgf/cm ² 4,980 psi Hydraulic cylinders: Type Type Double-acting, piston type Number of cylinders—bore x stroke: Lift cylinder. Lift cylinder. 2- 200 mm x 1067 mm 7.9" x 42" Bucket cylinder. 1- 225 mm x 776 mm 8.9" x 30.6" Control valve 2-spool type Control positions: Paina hold lower and float
Boom
Raise.9.3 sDump2.3 sLower (Empty)4.1 s

SERVICE REFILL CAPACITIES

Cooling system	147 L	38.8 U.S. gal
Fuel tank	718 L	189.7 U.S. gal
Engine	. 86 L	22.7 U.S. gal
Hydraulic system	443 L	117.0 U.S. gal
Axle (each front and rear)	155 L	41.0 U.S. gal
Torque converter and transmission	. 83 L	21.9 U.S. gal

BUCKET SELECTION GUIDE



Measured with 35/65-33-36PR(L-4) tires



		3990 mm 13'1" 3850 mm 12 Boom Boom					
	Tread	2650 mm 8'8"					
	Width over tires	3540 m	m 11'9"				
А	Wheelbase	4500 mm 14'9"					
В	Hinge pin height, max. height	5885 mm 19'3"	5665 mm 18'7"				
С	Hinge pin height, carry position	720 mm 2'4"	670 mm 2'3"				
D	Ground clearance	525 m	m 1'9"				
Е	Hitch height	1385 m	im 4'7"				
F	Overall height, top of the stack	4270 mm 14'0"					
G	Overall height, ROPS cab	4460 m	m 14'8"				

			3990 mm 13'1" Boom	3850 mm 12'8" Boom			
		Excavatin	g Buckets	Stockpile Bucket	Excavatin	g Buckets	
		Spade nose Teeth and WSE*1	Straight edge Teeth and BSE*2	Spade nose Teeth and WSE*1	Spade nose Teeth and WSE*1	Straight edge Teeth and BSE*2	
Bucket capacity:	heaped	6.4 m³ 8.4 yd ³	6.5 m³ 8.5 yd³	7.0 m³ 9.2 yd³	7.0 m³ 9.2 yd³	7.0 m³ 9.2 yd³	
	struck	5.3 m³ 6.9 yd ³	5.4 m³ 7.1 yd³	5.8 m³ 7.6 yd³	5.8 m³ 7.6 yd³	5.8 m³ 7.6 yd³	
Bucket width		3685 mm 12'1"	3685 mm 12'1"	3685 mm 12'1"	3685 mm 12'1"	3685 mm 12'1"	
Bucket weight		5115 kg 11,280 lb	4735 kg 10,440 lb	5255 kg 11,590 lb	5245 kg 11,570 lb	4865 kg 10,730 lb	
Dumping clearance, m and 45° dump angle*3	ax. height	3995 mm 13'1"	4180 mm 13'9"	3945 mm 12'11"	3730 mm 12'3"	3905 mm 12'10"	
Reach at max. height a	and 45° dump angle* ³	1800 mm 5'11"	1610 mm 5'3"	1850 mm 6'1"	1885 mm 6'2"	1690 mm 5'7"	
Reach at 2130 mm (7' and 45° dump angle) clearance	3015 mm 9'11"	2875 mm 9'5"	3050 mm 10'0"	2900 mm 9'6"	2775 mm 9'1"	
Reach with arm horizo	ntal and bucket level	4135 mm 13'7"	4135 mm 3870 mm 4205 mm 13'7" 12'8" 13'9"		4065 mm 13'4"	3800 mm 12'6"	
Operating height (fully raised)		7925 mm 26'0"	7925 mm 26'0"	7995 mm 26'3"	7775 mm 25'6"	7775 mm 25'6"	
Overall length		11985 mm 39'4"	11725 mm 38'6"	12055 mm 39'7"	11870 mm 38'11"	11610 mm 38'1"	
Loader clearance circle (bucket at carry, outsid	e de corner of bucket)	17000 mm 55'9"	17060 mm 56'0"	17040 mm 55'11"	16875 mm 55'4"	16920 mm 55'6"	
Digging depth:	0°	130 mm 5.1"	135 mm 5.3"	130 mm 5.1"	130 mm 5.1"	140 mm 5.5"	
	10°	515 mm 1'8"	480 mm 1'7"	530 mm 1'9"	530 mm 1'9"	495 mm 1'7"	
Static tipping load:	straight	34200 kg 75,400 lb	34580 kg 76,240 lb	34060 kg 75,090 lb	35400 kg 78,040 lb	35780 kg 78,880 lb	
	43° full turn	28500 kg 62,830 lb	28880 kg 63,670 lb	28360 kg 62,520 lb	29500 kg 65,040 lb	29880 kg 65,870 lb	
Breakout force		387 kN 39500 kgf 87 080 lb	448 kN 45680 kgf 100 710 lb	375 kN 38200 kgf 84 220 lb	378 kN 38600 kgf 85 100 lb	433 kN 44150 kgf 97 340 lb	
Operating weight		52700 kg 116,180 lb	52320 kg 115,340 lb	52840 kg 116,490 lb	52900 kg 116,620 lb	52500 kg 115,740 lb	

*1 Weld on segment edges. *2 Bolt on segment edges. *3 At the end of tooth or bolt on cutting edge (B.O.C.). All dimensions, weights, and performance values based on ISO 7131 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.

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

Tires or attachments	Oper wei	ating ight	Tipping lo a 3990 mm Boom	ad straight (3850 mm Boom)	Tipping load full turn Width 3990 mm Boom (3850 mm Boom) over til				Ground clearance		Change in vertical dimensions	
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
35/65-33-36PR(L-5)	+1000	+2,205	+715 (+745)	+1,575 (+1,640)	+595 (+620)	+1,310 (+1,365)	3540	11'7"	525	1'9"	0	0'0"
35/65-33-42PR(L-4)	+20	+45	+15 (+15)	+30 (+35)	+10 (+15)	+25 (+30)	3555	11'8"	525	1'9"	0	0'0"
35/65-R33 ★(L-4)	-780	-1,720	-555 (-580)	-1230 (-1280)	-465 (-485)	-1025 (-1065)	3565	11'8"	460	1'6"	-65	-1'9"
35/65-R33 ★(L-5)	-235	-520	-170 (-175)	-375 (-390)	-140 (-145)	-310 (-320)	3565	11'8"	460	1'6"	-65	-1'9"
Optional counterweight	+1000	+2,205	+2380 (+2480)	+5,245 (+5,465)	+1985 (+2065)	+4,370 (+4,555)						



- 2-spool valve for boom and bucket controls
- 3990 mm 13'1" boom
- Alternator, 24 V/90 A
- Auto air conditioner
- Auto shift transmission with mode select system
- Back-up alarm
- Back-up lamp
- Batteries, 2 x 12 V/200 Ah
- Boom kick-out
- Bucket positioner
- Directional signal
- Electronic Pilot Control fingertip control levers with automatic leveler and positioner

- Engine, Komatsu SAA6D170E-5 diesel
- Floormat
- Front fenderHard water area arrangement
- (corrosion resister)
- Hydraulic-driven fan with reverse rotation
- Lift cylinders and bucket cylinder
- Lock-up clutch torque converter
- Main monitor panel with Equipment Management Monitoring System
- Radiator mask, lattice type
- Rear acces stairs
- Rear defroster (electric)
- Rear under view mirror
- Rearview mirrors

- Rear window washer and wiper
- ROPS/FOPS (ISO 3471/ISO 3449) cab
- Seat belt
- Seat, suspension type with reclining
- Secondary steering (ISO 5010)
- Service brakes, wet disc type
- Standard counterweight
- Starting motor, 2 x 24 V/11.0 kW
- Steering wheel, tiltable
- Sun visor
- Tires (35/65-33-36PR L-4 tubeless) and rims
- Transmission, 4 forward and 4 reverse
- Water separator

- OPTIONAL EQUIPMENT
- 3850 mm 12'8" boom
- 3-spool valve
- Advanced Joystick Steering System
- AM/FM radio
- AM/FM stereo radio cassette
- Automatic greasing
- Battery disconnect switch
- Brake cooling system
- Bucket teeth (bolt on type)

- Bucket teeth (tip type)
- Counterweight for log
- Cutting edge (bolt on type)
- Electronically Controlled Suspension System
- Fire extinguisher
- KOMTRAX Plus
- Limited slip differential (F&R)
- Load meter

- Log grapple
- Optional counterweight
- Ordinary spare parts
- Power train guard
- Rear fender
- Segment edges
- Semi-auto digging system
- Tool kit

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