HORSEPOWER

Gross: 224 kW 300 HP @ 2000 rpm

Net: 223 kW 299 HP @ 2000 rpm

BUCKET CAPACITY

3.8-6.1 m³ 5.0-8.0 yd³

KOMATSU®

WA480-6

ecot3





WHEEL LOADER

Photo may include optional equipment.

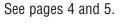
WALK-AROUND

Excellent Operator Environment

- Automatic transmission with ECMV
- Electronic controlled transmission lever
- Variable transmission cut-off system
- Telescopic / tilt steering column

Lock-up Torque Converter (option)

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 main structure paint
- Sealed DT connectors for electrical connections

HORSEPOWER

Gross: 224 kW 300 HP @ 2000 rpm Net: 223 kW 299 HP @ 2000 rpm

> **BUCKET CAPACITY 3.8–6.1 m**³ 5.0-8.0 yd³



Photo may include optional equipment.

3

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)

HIGH PRODUCTIVITY AND LOW FUEL CONSUMPTION



High Performance SAA6D125E-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.

Net: 223 kW 299 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 general loading.
- P Mode: This mode provides maximum power output for hard digging operation or hill climb.



Dual mode engine power selection switch



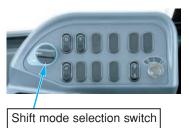
The eco indicator will help an operator to promote energy saving.

Large-capacity Torque Converter

Newly designed drive train has a large-capacity torque converter for optimal efficiency. The WA480-6 has plenty of acceleration without the need for full throttle and it can achieve high travel speeds, even on grades or steep ramps leading to feed hoppers. This significantly assists productivity and also delivers great value for load-and-carry operations.

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.

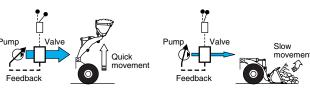
Lock-up Torque Converter (optional)

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. The operator can engage the system from 2nd to 4th gear. This optional feature allows the operator to activate the system on/off with a switch located on the right-side control panel.

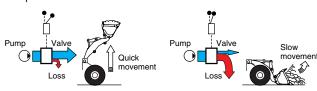
Variable Displacement Piston Pump & CLSS

New design variable displacement piston pump combined with the Closed-center Load Sensing System 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 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: 3205 mm 10'6" Dumping Reach: 1410 mm 4'8" (4.6 m³ 6.0 yd³ bucket with B.O.C.)

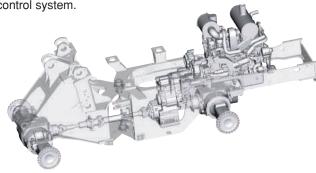


4

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.

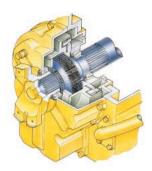


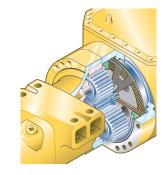
Wet Multi-disc Brakes and Fully Hydraulic Braking

System mean lower maintenance costs and higher reliability. Wet disc brakes are fully sealed. Contaminants are kept out, reducing wear and 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.





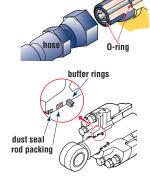
High-rigidity Frames and Loader Linkage

The front and rear frames and the loader linkage have 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.



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 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 DT Connectors

resistance and dust resistance

Main harnesses and controller connectors are equipped with sealed DT connectors providing high reliability, water



EASY MAINTENANCE



EMMS (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.

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 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.

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

7

C: Auto Reverse Mode

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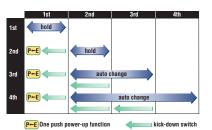
OPERATOR ENVIRONMENT

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

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 5:Bucket control

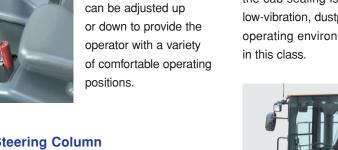
Comfortable Operation

Low-noise Design

Noise at operator's ear noise level: 72 dB(A) Dynamic noise level (outside): 112 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



forward or rearward and

the large size arm rest

Telescopic/Tilt Steering Column

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

Fingertip Work Equipment Control Levers

control, reducing operator fatigue and increasing

controllability. The PPC control lever column can be slid

New PPC control levers are used for the work equipment. The

operator can easily operate the work equipment with fingertip

with Large Size Arm Rest



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 slide adjustment to backward by introducing front mounted air conditioner unit.

Rear-hinged Full Open Cab Door

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.



SPECIFICATIONS



ENGINE

Model
Bore x stroke
Piston displacement
Governorall-speed, electronic
Horsepower
SAE J1995
ISO 9249/SAE J1349* Net 223 kW 299 HP
Rated rpm
Fan drive method for radiator cooling
Fuel system
Lubrication system:
Method
Air cleaner

*Net horsepower at the maximum speed of radiator cooling fan is 211 kW 283 HP.

EPA Tier 3 and EU Stage 3A emissions certified.



TRANSMISSION

Torque converter:
Type
Transmission:
TypeFull-powershift, contershaft type
Travel speed: km/h mph
Measured with 26.5-25 tires

	1st 2nd		3rd	4th		
Forward	7.7 4.8	13.1 8.1	22.9 14.2	36.3 22.6		
Reverse	7.9 4.9	13.5 8.4	23.6 14.7	37.4 23.2		



AXLES AND FINAL DRIVES

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



Service brakes	
	wet disc brakes actuate on four wheels
Parking brake	
Emergency brake	Parking brake is commonly used



STEERING SYSTEM

Туре	.Articulated type, full-hydraulic power steering
Steering angle	
Minimum turning radius	at
the center of outside tire	e



HYDRAULIC SYSTEM

HYDRAULIC SYSTEM
Steering system: Hydraulic pump
Loader control: Hydraulic pump Piston pump Capacity 260 ltr/min 68.7 U.S. gal/min at rated rpm Relief valve setting 34.3 MPa 350 kgf/cm² 4,980 psi Hydraulic cylinders: Type Double-acting, piston type Number of cylinders—bore x stroke: Lift cylinder 2- 140 mm x 881 mm 5.5" x 34.7" Bucket cylinder 1- 180 mm x 572 mm 7.1" x 22.5" 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 6.1 sec Dump 1.9 sec Lower (Empty) 3.8 sec
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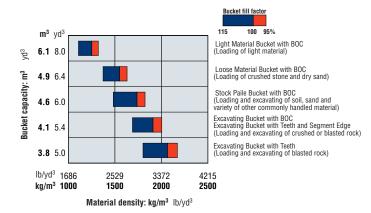


SERVICE REFILL CAPACITIES

Cooling system	16.1 U.S. gal
Fuel tank	109.1 U.S. gal
Engine	10.0 U.S. gal
Hydraulic system	45.7 U.S. gal
Axle front	15.6 U.S. gal
rear	15.6 U.S. gal
Torque converter and transmission65 ltr	17.2 U.S. gal

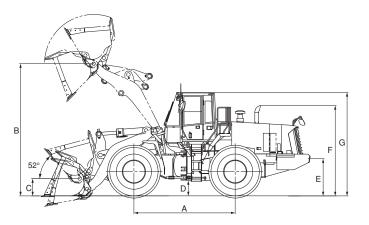


BUCKET SELECTION GUIDE





Measured with 26.5-25-20PR (L3) tires



	Tread	2300 mm	7'7"
	Width over tires	3010 mm	9'11"
Α	Wheelbase	3450 mm	11'4"
В	Hinge pin height, max. height	4505 mm	14'9"
С	Hinge pin height, carry position	585 mm	1'11"
D	Ground clearance	525 mm	1'9"
Ε	Hitch height	1240 mm	4'1"
F	Overall height, top of the stack	3080 mm	10'1"
G	Overall height, ROPS cab	3500 mm	11'6"

		Gen	Loose Material	Light Material			
	Stock	cpile		Excavating	Bucket	Bucket	
	Bolt-on Cutting edges	Teeth	Bolt-on Cutting edges	Teeth and Segments	Teeth	Bolt-on Cutting edges	Bolt-on Cutting edges
Bucket capacity: heaped	4.6 m³	4.3 m³	4.1 m³	4.1 m³	3.8 m³	4.9 m³	6.1 m³
	6.0 yd³	5.6 yd³	5.4 yd³	5.4 yd³	5.0 yd³	6.4 yd³	8.0 yd³
struck	4.0 m³	3.8 m³	3.5 m³	3.5 m³	3.2 m³	4.2 m³	5.2 m³
	5.2 yd³	5.0 yd³	4.6 yd³	4.6 yd³	4.2 yd³	5.5 yd³	6.8 yd³
Bucket width	3170 mm	3190 mm	3170 mm	3190 mm	3190 mm	3170 mm	3170 mm
	10'5"	10'6"	10'5"	10'6"	10'6"	10'5"	10'5"
Bucket weight	2260 kg	2165 kg	2220 kg	2255 kg	2125 kg	2340 kg	2410 kg
	4,982 lb	4,773 lb	4,894 lb	4,971 lb	4,685 lb	5,159 lb	5,313 lb
Dumping clearance, max. height and 45° dump angle*	3205 mm	3080 mm	3320 mm	3195 mm	3195 mm	3150 mm	3080 mm
	10'6"	10'1"	10'11"	10'6"	10'6"	10'4"	10'1"
Reach at max. height and 45° dump angle *	1410 mm	1510 mm	1295 mm	1395 mm	1395 mm	1465 mm	1535 mm
	4'8"	5'0"	4'3"	4'7"	4'7"	4'10"	5'0"
Reach at 2130 mm (7') clearance and 45° dump angle	2135 mm	2180 mm	2060 mm	2110 mm	2110 mm	2165 mm	2205 mm
	7'0"	7'2"	6'9"	6'11"	6'11"	7'1"	7'3"
Reach with arm horizontal and bucket level	3020 mm	3175 mm	2855 mm	3010 mm	3010 mm	3100 mm	3195 mm
	9'11"	10'5"	9'4"	9'11"	9'11"	10'2"	10'6"
Operating height (fully raised)	6175 mm	6175 mm	6025 mm	6025 mm	6025 mm	6175 mm	6450 mm
	20'3"	20'3"	19'9"	19'9"	19'9"	20'3"	21'2"
Overall length	9170 mm	9325 mm	9005 mm	9160 mm	9160 mm	9250 mm	9345 mm
	30'1"	30'7"	29'7"	30'1"	30'1"	30'4"	30'8"
Loader clearance circle (35°)	15400 mm	15500 mm	15310 mm	15420 mm	15420 mm	15440 mm	15490 mm
(bucket at carry, outside corner of bucket)	50'6"	50'10"	50'3"	50'7"	50'7"	50'8"	50'10"
Digging depth: 0°	90 mm	110 mm	90 mm	110 mm	110 mm	90 mm	90 mm
	3.5"	4.3"	3.5"	4.3"	4.3"	3.5"	3.5"
10°	355 mm	400 mm	335 mm	380 mm	380 mm	375 mm	385 mm
	1'2"	1'4"	1'1"	1'3"	1'3"	1'3"	1'3"
Static tipping load: straight	20030 kg	20110 kg	20060 kg	20030 kg	20145 kg	19960 kg	19900 kg
	44,160 lb	44,330 lb	44,220 lb	44,160 lb	44,410 lb	44,000 lb	43,870 lb
40° full turn	17125 kg	17205 kg	17160 kg	17130 kg	17240 kg	17055 kg	16995 kg
	37,750 lb	37,930 lb	37,830 lb	37,760 lb	38,010 lb	37,600 lb	37,470 lb
Breakout force	212 kN	226 kN	231 kN	237 kN	249 kN	196 kN	189 kN
	21600 kgf	23100 kgf	23600 kgf	24200 kgf	25400 kgf	20000 kgf	19300 kgf
	47,660 lb	50,810 lb	51,930 lb	53,280 lb	55,980 lb	44,060 lb	42,490 lb
Operating weight	25005 kg 55,130 lb	24910 kg 54,920 lb	24965 kg 55,040 lb	25000 kg 55,110 lb	24870 kg 54,830 lb	25085 kg 55,300 lb	25155 kg 55,460 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 11

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

Tires or attachments		ating ight	Tippin stra		Tippin full		Wid over		Gro clear	-	Cha in vei dimen	rtical
	kg	lb	kg	lb	kg	lb	mm	ft in	mm	ft in	mm	ft in
26.5-25-20PR(L-3)	0	0	0	0	0	0	3010	9'11"	525	1'9"	0	0
26.5-25-20PR(L-4)	+360	+794	+250	+551	+220	+485	3010	9'11"	525	1'9"	0	0
Install additional counterweight	+400	+880	+980	+2,160	+850	+1,873		•		•		

S		EQUIPMENT
	STANDARD	EQUIPMENT

- 2-spool valve for boom and bucket controls
- Alternator, 50 A
- Auto shift transmission with mode select system
- Back-up alarm
- Back-up lamp
- Batteries, 136 Ah/12 V x 2
- Counterweight
- Directional signal
- Engine, Komatsu SAA6D125E-5 diesel

- Engine shut-off system, electric
- Hard water area arrangement (corrosion resister)
- Hydraulic-driven fan with reverse rotation
- Lift cylinders and bucket cylinder
- Main monitor panel with EMMS (Equipment Management Monitoring System)
- PPC fingertip control, two levers
- Radiator mask, lattice type
- Rearview mirror for cab

- Rear window washer and wiper
- ROPS/FOPS cab
- Seat belt
- Seat, suspension type with reclining
- Service brakes, wet disc type
- Starting motor, 7.5 kW/24 V
- Steering wheel, tiltable, telescopic
- Sun visor
- Tires (26.5-25-20PR tubeless) and rims
- Transmission, 4 forward and 4 reverse



- 12V converter
- 3-spool valve
- Additional counterweight
- Air conditioner
- AM/FM radio
- AM/FM stereo radio cassette
- Batteries, 140 Ah/12V x 2
- Bucket teeth (bolt-on type)
- Bucket teeth (tip type)
- Cutting edge (bolt-on type)

- ECSS (Electronically Controlled Suspension System)
- Emergency steering (SAE)
- Engine pre-cleaner with extension
- Fire extinguisher
- Floor mat
- Front fender
- Joystick steering
- Load meter, new type
- Lock-up clutch torque converter

- Ordinary spare parts
- Power train guard
- Seat, air suspension with automatic weight adjustment
- Segment edges
- Tool kit
- Vandalism protection kit
- Limited slip differential (F&R)

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