

KOMATSU

WA500-8



Wheel loader

Engine power
266 kW / 357 HP @ 1900 rpm

Operating weight
34855 - 36380 kg

Bucket capacity
5.5 - 7.2 m³

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Increased fuel efficiency and environmental performance

Powerful and environmentally friendly

- EU Stage V engine
- Komatsu SmartLoader Logic
- Large-capacity torque converter with standard lock-up
- Adjustable idle shutdown

First-class comfort

- New, air-suspended operator seat with integrated EPC lever console
- Large multifunctional monitor
- Low-noise design
- Rear-view camera system

Maximised efficiency

- High efficiency buckets
- Superior dumping height and reach
- Wide tread and long wheelbase

State-of-the-art controls

- Automatic digging system
- Electronic Pilot Control (EPC) standard
- Intelligent gas pedal

Easy maintenance

- Wide core radiator with auto reverse fan
- Factory fitted automatic lubrication system
- Improved gull-wing type engine doors

Komtrax

- Komatsu Wireless Monitoring System
- 4G mobile communications
- Integrated communication antenna
- Increased operational data and fuel savings



A maintenance program
for Komatsu customers



Komatsu SmartLoader Logic

The WA500-8 provides Komatsu SmartLoader Logic, a fully automatic engine control system. Without interfering with normal operations, this technology acquires data from various sensors in the vehicle and delivers optimal engine torque for each work phase. It limits torque during less demanding operations and reduces fuel usage without decreasing production.

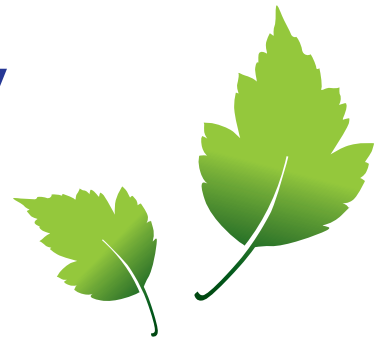
Large-capacity torque converter with standard lock-up

With its large-capacity torque converter, the completely redesigned Komatsu drive train offers optimum efficiency and an unparalleled rimpull-to-weight ratio. By delivering high rimpull at low speeds, it makes child's play of heavy jobs like penetration of dense material such as aggregate. This means higher productivity in V-Shape loading, even in confined spaces.

More fuel-saving technology

The selectable engine mode and adjustable idle shutdown are tools to considerably lower fuel usage. The WA500-8's Eco-gauge displays active recommendations on the cab's monitor to help you maximise those fuel savings. For more fuel economy, the electronically controlled hydraulics pumps for the work and steering system prevent wasted hydraulic flow and deliver the exact amount of oil required for all movements of the machine.

Powerful and environmentally friendly

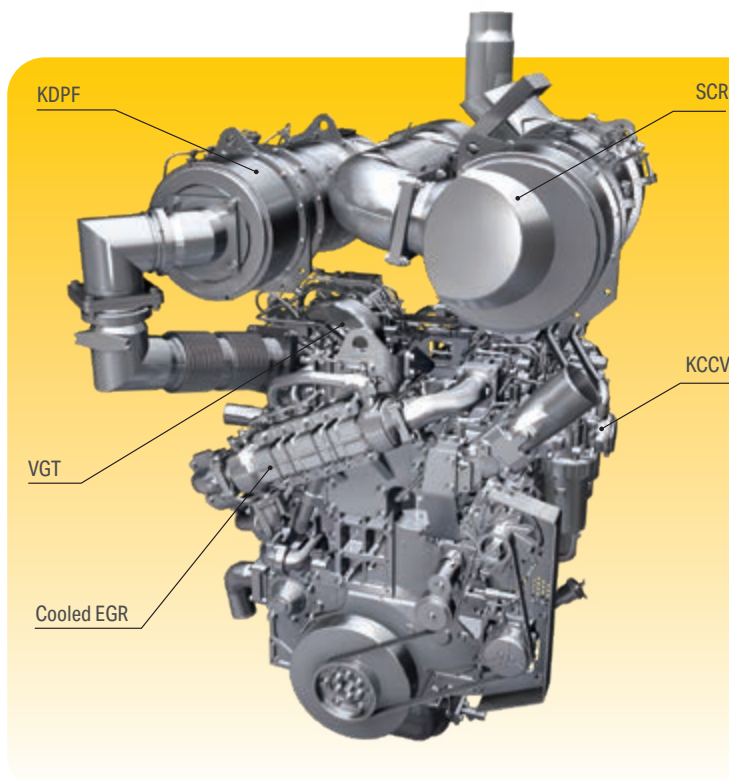
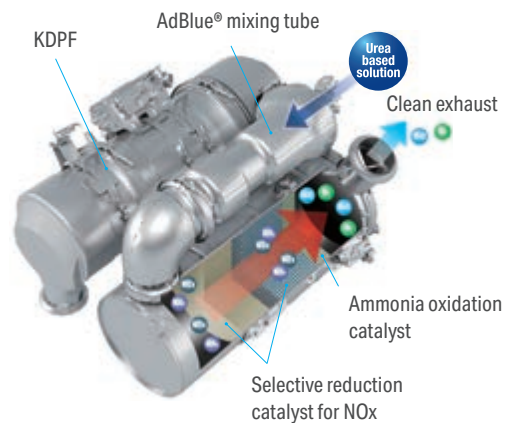


Komatsu EU Stage V

The Komatsu EU Stage V engine is productive, dependable and efficient. With ultra-low emissions, it provides a lower environmental impact and a superior performance to help reduce operating costs and lets the operator work in complete peace of mind.

Heavy-duty aftertreatment

The aftertreatment system combines a Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR). The SCR injects the correct amount of AdBlue® into the system at the proper rate to break down NOx into water (H₂O) and non-toxic nitrogen gas (N₂). NOx emissions are reduced by 80% vs. EU Stage IIIB engines.



High-Pressure Common Rail (HPCR)

To achieve complete fuel burn and lower exhaust emissions, the heavy-duty High-Pressure Common Rail fuel injection system is computer controlled to deliver a precise quantity of pressurised fuel into the redesigned engine combustion chamber by multiple injections.

Exhaust Gas Recirculation (EGR)

Cooled EGR is a technology well-proven in current Komatsu engines. The increased capacity of the EGR cooler now ensures very low NOx emissions and a better engine performance.

Komatsu Closed Crankcase Ventilation (KCCV)

Crankcase emissions (blow-by gas) are passed through a CCV filter. The oil mist trapped in the filter is returned back to the crankcase while the filtered gas is returned to the air intake.

Variable Geometry Turbo (VGT)

The VGT provides optimal airflow to the engine combustion chamber under all speed and load conditions. Exhaust gas is cleaner, fuel economy is improved while machine power and performance are maintained.

Maximised efficiency

Faster Load & Carry

The sequential torque converter lock-up system delivers unbeatable productivity and fuel efficiency in Load & Carry and short distance transport applications. The operator can engage the system from 2nd to 4th gear. It noticeably increases travel speed, particularly when going uphill, thanks to the larger tractive force. It also significantly reduces fuel consumption by eliminating converter losses.

Superior dumping height and reach

The long lifting frame allows an enormous dumping height of 3385 mm and a reach of 1380 mm that is just as impressive (with a 5.6 m³ bucket, measured to the cutting edge). With this working range, loading high feeders or trucks becomes easy and fast.

New high efficiency buckets

Soil slips easily from the redesigned bucket, and digging work is more efficient. Operations are easier and productivity improved, especially in combination with the new auto digging system.

Precision control

Komatsu's CLSS hydraulics enables extremely precise control of the work equipment, and ensures that the bucket, boom and hydraulically driven attachments can all move smoothly at the same time. The WA500-8 also features variable-displacement pumps on both the hydraulic and steering systems. These pumps deliver the exact amount of oil required, dramatically improving fuel efficiency.





First-class comfort

Increased comfort

In the wide Komatsu SpaceCab™, a standard air-suspended high-back seat, heated for improved comfort and with fully adjustable armrests, is the centre of a comfortable and low-fatigue working environment. High visibility and ergonomic controls further assist to maximise the operator's productivity.

Perfect operator convenience

In addition to the standard radio, the WA500-8 has an auxiliary input for connecting external devices and play music through the cab speakers. Two 12-volt power ports are also incorporated in the cab. Proportional controls are fitted as standard for safe and precise operation of attachments. The cab features large trays and storage boxes for tools and manuals and a hot and cool box.

New automatic digging system

The new automatic digging system actuates the bucket tilt and lifting operations by detecting the sensing pressure applied to the work equipment. The system adapts to different types of material with no human intervention required. Operator fatigue is greatly reduced and ideal load capacity ensured.



State-of-the-art controls

New, fully air suspended operator station

The wide spacious cab features a new, fully air suspended operator seat that includes the side consoles mounted together with a high back, fully adjustable, standard heated seat for improved comfort. A seat ventilation is optionally available to maximise comfort.

Easy-to-use joystick steering (option)

A joystick steering system is available as optional equipment, and ensures that steering can be wrist operated easily and conveniently in loading operations. This system allows you to change the direction of travel and gear shifting with push buttons on the joystick. And you may pre-select the steering speed in 2 stages, depending upon whether fast V-loading or precise load & carry is required.

Intelligent gas pedal

To reduce fuel usage, Komatsu's innovative thrust-sensing gas pedal automatically helps you match the timing of gear shifts to the load. In heavy-duty work, requiring high rimpull and maximum acceleration, we tend to press heavily on the gas pedal. The WA500-8 anticipates this and shifts up gears as late as possible. In light-duty work, where fuel consumption is a major factor, the operator will intuitively press the gas pedal lightly. Again, the machine anticipates this – and shifts up gears as early as possible to achieve highest fuel efficiency.

"By Wire" operating

The Electronic Pilot Control (EPC) lever console is integrated with the seat and can be easily adjusted to suit any operator. The short levers are fingertip controlled for precise and fatigue-free operating, with a no-vibration modulating function for slowing and stopping a lowering bucket. The upper and lower boom cut-out position can be pre-set with a switch.

Rear view camera

A standard fitment camera gives an exceptionally clear view of the rear work zone on the wide-screen colour monitor panel. The low profile camera is adjustable and integrated into the engine hood's shape.

EPC-multi-function lever (option)

The EPC-multi-function lever with an integrated forward/reverse switch allows the simplest and most comfortable operation of the equipment. With one hand the driver can simultaneously control the attachment and switch between forward and reverse. The multi-function lever is the perfect choice for earth moving jobs.

Auto-kickdown

The WA500-8 can automatically shift down from F2 to F1 to make operations easier and more productive.



Auxiliary input (MP3 jack)



Hot and cool box



EPC-Multifunction lever (option)



Lower operating costs

Komatsu ICT contributes to the reduction of operating costs by assisting to comfortably and efficiently manage operations. It raises the level of customer satisfaction and the competitive edge of our products.

Eco guidance

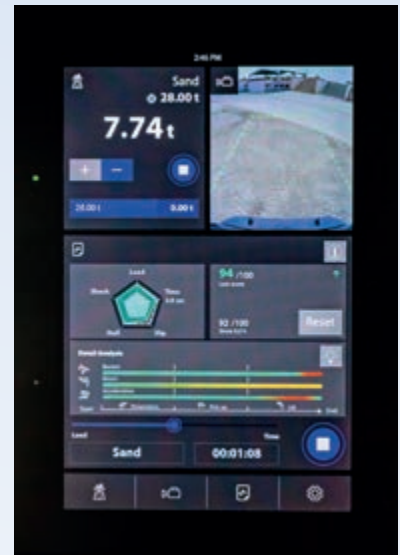
The monitor panel displays instant guidance messages to help promote energy saving, and the Eco-gauge indicates the actual fuel consumption: keep the Eco-gauge in the green zone for better fuel efficiency. To further improve savings, logs can be consulted for operations, Eco guidance and fuel consumption. The information is available in Komtrax and can be used for operator trainings and jobsite optimisation.



Information at a glance: basic dashboard LCD monitor



Eco guidance supports energy saving in real time (e.g. avoid long time engine idling)



Operator Assistance System (option)

The new Operator Assistance System is a 12.1" touchscreen that outperforms the standard rear-view monitor with seamless at-a-glance accessibility. Enhance productivity, efficiency, and safety with an intuitive interface for the extended Load Pilot, high-definition rear-view camera with radar obstacle detection, and a performance-boosting efficiency trainer module.

Information & communication technology



Knowledge

You get quick answers to basic and critical questions about your machines – what they're doing, when they did it, where they're located, how they can be used more efficiently and when they need to be serviced. Performance data is relayed by wireless communication technology (satellite, GPRS or 4G depending on model) from the machine to a computer and to the local Komatsu distributor – who's readily available for expert analysis and feedback.

Convenience

Komtrax enables convenient fleet management on the web, wherever you are. Data is analysed and packaged specifically for effortless and intuitive viewing in maps, lists, graphs and charts. You can foresee eventual maintenance issues and required spare parts, and troubleshoot a problem before Komatsu technicians arrive on site.

KOMTRAX

The way to higher productivity

Komtrax uses the latest wireless monitoring technology. Compatible on PC, smartphone or tablet, it delivers insightful and cost saving information about your fleet and equipment, and offers a wealth of information to facilitate peak machine performance. By creating a tightly integrated web of support it allows proactive and preventive maintenance and helps to efficiently run a business.

Power

The detailed information that Komtrax puts at your fingertips 24 hours a day, 7 days a week gives the power to make better daily and long-term strategic decisions – at no extra cost. Problems can be anticipated, maintenance schedules customised, downtime minimised and machines kept where they belong: working on the jobsite.



Easy maintenance



Easy access to service points

For easy and safe opening the gull-wing doors are supported by gas springs. The large doors give a convenient access from ground level to all daily service points. With long service intervals and filters collected in a centralised arrangement, machine downtime is reduced to a minimum.

Komatsu Care

Komatsu Care is a maintenance program that comes as standard with your new Komatsu machine. It covers factory-scheduled maintenance, performed with Komatsu Genuine parts by Komatsu-trained technicians. Depending on your machine's engine, it also offers extended coverage of the Komatsu Diesel Particulate Filter (KDPF) and of the Selective Catalytic Reduction (SCR). Please contact your local Komatsu distributor for terms and conditions.



Wide core radiator with auto reverse fan

A wide core radiator prevents clogging even when working in a dusty environment. To minimize manual cleaning, a reversible fan blows dust out, automatically or on demand. The "automatic reverse" function allows to set the cleaning length and the time between cleaning to adjust perfectly to the working conditions.

Equipment Management and Monitoring System (EMMS)

The large high resolution monitor panel displays various machine information and allows for multiple settings. The "Operation Records" menu shows records of the average fuel consumption, idling hours, and other features. Abnormality codes are clearly displayed and stored to alert you and simplify troubleshooting. The monitor also provides for advanced monitoring of the system parameters through the Service Mode to aid in troubleshooting and reduce downtime.



AdBlue® tank

The AdBlue® tank is located on the right hand side of the machine behind a ladder for easy access.

Diesel particulate filter regeneration

No interruption or extension of daily work is required to regenerate the diesel particle filter system. Due to its superior Komatsu technology, KDPF regeneration takes place automatically, at any time.





Basic maintenance screen



Aftertreatment device regeneration screen for the KDPF



AdBlue® level gauge and refill guidance



Quality you can rely on

Designed and built by Komatsu

The engine, hydraulics, power train, front and rear axles are original Komatsu components. All these components are subject to the highest quality standards right down to the smallest screw. All components are fully co-ordinated with one another, thus offering the maximum efficiency and reliability.

Heavy-duty axles

The heavy-duty axles allow exceptional service life even under the toughest working conditions. The optional limited slip differentials are most suitable for soft and slippery ground like sand or wet soil.

Robust torsion-resistant main frame

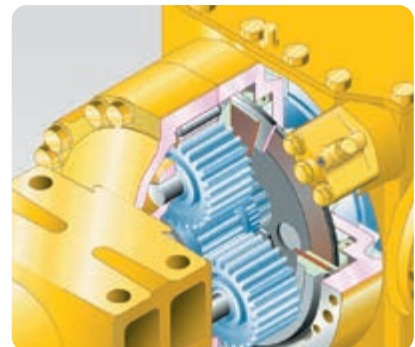
The frame design with hinge points far apart guarantees the high stability for the overall construction and reduces bearing stress in the torsional ranges.

Axle oil cooling system (option)

Overheated axle oil can cause a decline in productivity due to required machine cool downs. To maintain high efficiency in Load & Carry applications, the Komatsu WA500-8 can be optionally equipped with an axle oil cooling system that keeps oil at a constant temperature even over long hauling distances.



Robust torsion-resistant main frame



Wet multi-disc service brake



Aggregate handling linkage



Aggregate handling linkage (option)

This innovative Z-bar linkage is specifically designed for rehandling applications with high-capacity, direct-mounted buckets. Its open design enhances visibility for truck loading and hopper feeding. Ideal for handling large amounts of material at fast cycle times, the aggregate handling specification ensures effortless loading operations, thanks to its superior breakout force and high tipping load. Features such as reinforced axles and axle oil cooling provide robust support for any bucket.



Tailored solutions

Working gear division

Komatsu wheel loaders combined with a wide range of genuine Komatsu attachments provide the perfect solution for any industry sector. For special applications our "Working Gear" division offers purpose-built machines and attachments. The tailor made solutions allow high performance and outstanding reliability even under toughest conditions.

Stone handler specification

Stone handling demands robust machinery with a durable design. A modified base machine, wedge-type quick coupler, and specially designed stone fork ensure optimal kinematics. Reinforced axles, axle oil cooling, and additional counterweights complete the package.

Steel mill specification

Hot slag handling places high demands on machinery due to extreme temperatures. Komatsu's WA500-8 steel mill specification is designed to withstand heat, protecting both the machine and its operator. Key parts, like the hydraulics, electrical system, and fuel system, are heavily armored. Special windshield glazing and transmission override functions enhance safety.



Buckets and attachments



High efficiency bucket range

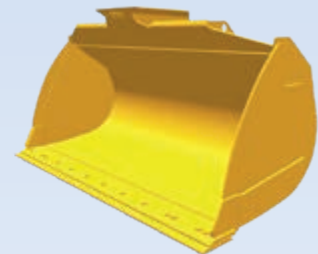
Komatsu buckets enable easier bucket fill and significantly higher fill factors, contributing to more efficiency and less fuel consumption. They feature a longer bottom allowing for more content, a wider opening for an easier fill and a new rear shape that enables material to flow easily into the bucket. Their rounded sides give them a higher fill factor, and an integrated spill guard protects the bucket linkage. Flush screws (with BOC) reduce resistance when filling and keep material from clogging when dumping.

Rock buckets

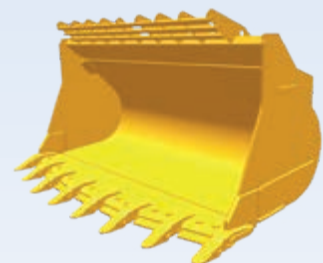
V-shaped buckets offer excellent penetration properties for medium heavy-duty rock jobs. Robust hardox design wear plates ensure a long service life. Komatsu offers a selection of optional equipment with the high wear-resistant KPrime cutting tools for extremely abrasive jobs.

Stock pile bucket with raised bottom

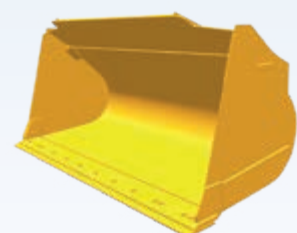
The stock pile bucket with raised bottom is the right solution for handling loose and relatively light materials on paved grounds. The combination of rounded shovel back and the straight sidewalls contributes to good filling properties and less material spillage.



High efficiency buckets with raised bottom



Rock buckets with raised bottom



Stock pile buckets with raised bottom

Specifications

Engine

Model	Komatsu SAA6D140E-7
Type	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed	1900 rpm
ISO 14396	266 kW / 357 HP
ISO 9249 (net engine power)	264 kW / 353 HP
Max. torque / engine speed	1785 Nm / 1250 rpm
No. of cylinders	6
Bore × stroke	140 × 165 mm
Displacement	15.24 l
Fan drive type	Hydraulic
Alternator	90 A / 24 V
Starter motor	11 kW / 24 V
Filter	Main-flow filter with water separator
Air-filter type	Dry-air filter with automatic dust emission and preliminary purification including a dust display
Fuel	Diesel fuel, conforming to EN590 Class 2/ Grade D. Paraffinic fuel capability (HVO, GTL, BTL), conforming to EN 15940:2016

Transmission

Type	Automatic powershift transmission
Torque converter	One-stage, one-phase, 3-element, with lock-up clutch

Speeds in km/h (with 29.5 R25 tyres)

Gear	1.	2.	3.	4.
Forward	7.5	12.9	22.2	35.5
with torque converter lock-up	-	13.1	23.7	37.3
Reverse	8.5	12.9	24.7	38.0
with torque converter lock-up	-	13.0	26.6	38.0

Chassis and tyres

System	4-wheel drive
Front axle	Komatsu HD axle, full-floating (LSD-differential optional)
Rear axle	Komatsu HD axle, full-floating, 20° swing angle (LSD-differential optional)
Differential	Spiral bevel gear pair
Final drive	Planetary gear in an oil bath
Tyres	29.5 R25

Brakes

Operating brakes	Hydraulically actuated, wet multi-disc brakes on all wheels
Parking brake	Wet multi-disc
Emergency brake	Uses the parking brake

Hydraulic system

Type	Komatsu CLSS (Closed Centre Load Sensing System)
Hydraulic pump	Variable piston pump
Working pressure	350 kg/cm ²
Maximum pump flow	320 l/min
No. of hydraulic/bucket cylinders	2/1
Type	Double-action
Bore diameter × stroke	
Boom cylinder	160 × 898 mm
Bucket cylinder	185 × 675 mm
Hydraulic cycle with rated load bucket filling	
Raise time	7.2 s
Lowering time (empty)	4.2 s
Dumping time	1.7 s

Steering system

System	Articulated frame steering
Type	Completely hydraulic power steering
Steering angle to either side	40°
Steering pump	Variable piston pump
Working pressure	250 kg/cm ²
Pumping capacity	120 l/min
No. of steering cylinders	2
Type	Double-action
Bore diameter × stroke	100 × 486 mm
Smallest turn (outer edge of the tyre 29.5 R25)	7050 mm

Cabin

Two-door SpaceCab™ in conformity with ISO 3471 with ROPS (Roll Over Protective Structure) in conformity with SAE J1040c and FOPS (Falling Object Protective Structure) in conformity with ISO 3449. The air-conditioned pressurised cabin is mounted upon hydrobearings and is noise dampened.

Service refill capacities

Fuel tank	473 l
Engine oil	37 l
Hydraulic system	337 l
Cooling system	110 l
Front axle	95 l
Rear axle	95 l
Torque converter and transmission	71 l
AdBlue® tank	36 l

Environment

Engine emissions	Fully complies with EU Stage V exhaust emission regulations
Noise levels	
LwA external	109 dB(A) (2000/14/EC Stage II)
LpA operator ear	72 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)	
Hand/arm	$\leq 2.5 \text{ m/s}^2$ (uncertainty K = 1.12 m/s^2)
Body	$\leq 0.5 \text{ m/s}^2$ (uncertainty K = 0.24 m/s^2)
Contains fluorinated greenhouse gas HFC-134a (GWP 1430). Quantity of gas 1.1 kg, CO ₂ equivalent 1.57 t.	

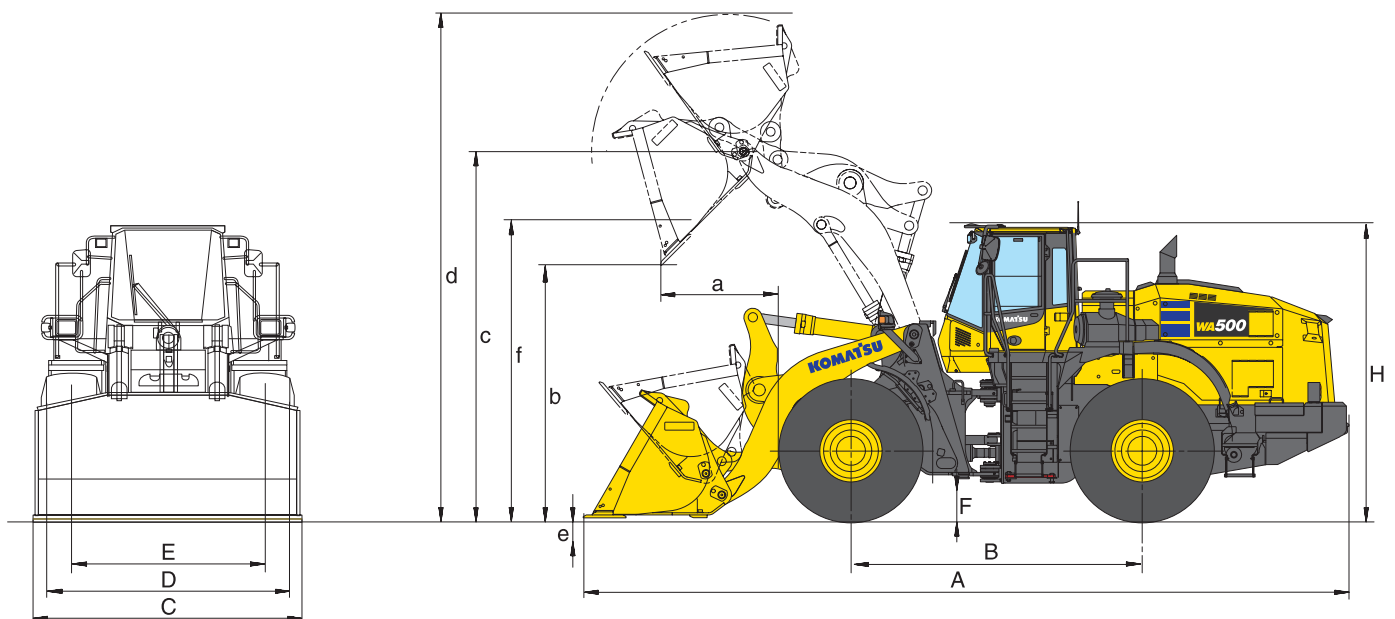


Dimensions and performance figures

Measurements and working specifications

Bucket type		High-efficiency bucket with raised bottom		Rock bucket with straight edge	
		w. teeth	w. BOC	w. teeth	w. BOC
Bucket capacity (heaped, ISO 7546)	m ³	5.5	5.8	5.6	5.6
Sales code	3809	C22	C23	C42	C43
Material density	t/m ³	1.8	1.7	1.72	1.75
Bucket weight	kg	3060	3010	3615	3360
Static tipping load, straight	kg	26620	26515	25955	26300
Static tipping load, articulated	kg	24095	24005	23440	23780
Break-out force hydraulic	kN	253	241	261	262
Lifting capability hydr. at ground level	kN	285	284	278	282
Operating weight	kg	34905	34855	35460	35205
Turning radius at corner of tyres	mm	6360	6360	6360	6360
Turning radius at bucket edge	mm	7750	7690	7745	7670
a Reach at 45°	mm	1675	1470	1535	1370
b Dumping height at 45°	mm	3090	3295	3175	3380
c Hinge pin height	mm	4770	4770	4770	4770
d Height top edge of bucket	mm	6700	6700	6750	6750
e Digging depth	mm	-122	-152	-187	-162
f Max. loading height at 45°	mm	4235	4235	4250	4250
A Overall length, bucket grounded	mm	10205	9910	10070	9790
B Wheel base	mm	3780	3780	3780	3780
C Bucket width	mm	3430	3440	3460	3460
D Width over tyres	mm	3150	3150	3150	3150
E Track width	mm	2400	2400	2400	2400
F Ground clearance	mm	465	465	465	465
H Overall height	mm	3800	3800	3800	3800

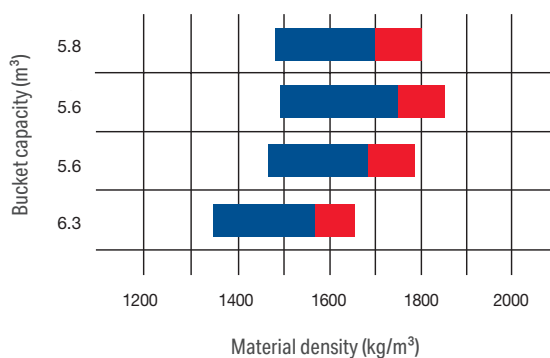
All measurements with tyres 29.5 R25 (XHA2) standard counterweight and additional counterweight (A15).
 Details of dumping heights and reach to cutting edge or bolt-on cutting edge (BOC) or teeth.



Rock bucket with spade nose		Stock pile bucket with straight edge		Change in data caused by:		
with teeth and teeth segments	w. BOC	w. teeth	w. BOC	Tyres 29.5 R25 XMINE (D2)	without additional counterweight (A15)	High Lift (with additional counterweight A15)
5.6	5.6	6.0	6.3			
C46	C47	C06	C07			
1.68	1.71	1.65	1.56	0.06	-0.15	-0.35
3815	3555	3145	3095			
25435	25835	26545	26390	+755	-1830	-2595
22935	23335	24020	23885	+755	-1545	-2560
227	225	254	242			-4.2
273	277	283	281			-54
35660	35400	34990	34940	+1080	-900	+1260
6360	6360	6360	6360			
7730	7660	7750	7685			
1700	1545	1650	1465	-21		+120
3010	3205	3150	3300	+25		+410
4770	4770	4770	4770	+25		+410
6750	6750	6665	6665	+25		+410
-187	-162	-122	-152	-25		-75
4250	4250	4235	4235	+25		+410
10300	10035	10115	9906	-20		+485
3780	3780	3780	3780			
3460	3460	3430	3430			
3150	3150	3150	3150	+57		
2400	2400	2400	2400			
465	465	465	465	+25		
3800	3800	3800	3800	+25		

Bucket selection guide

115 100 95%
Bucket fill factor



High-efficiency bucket with raised bottom (C23)

Rock bucket (C43)

Rock bucket (C46)

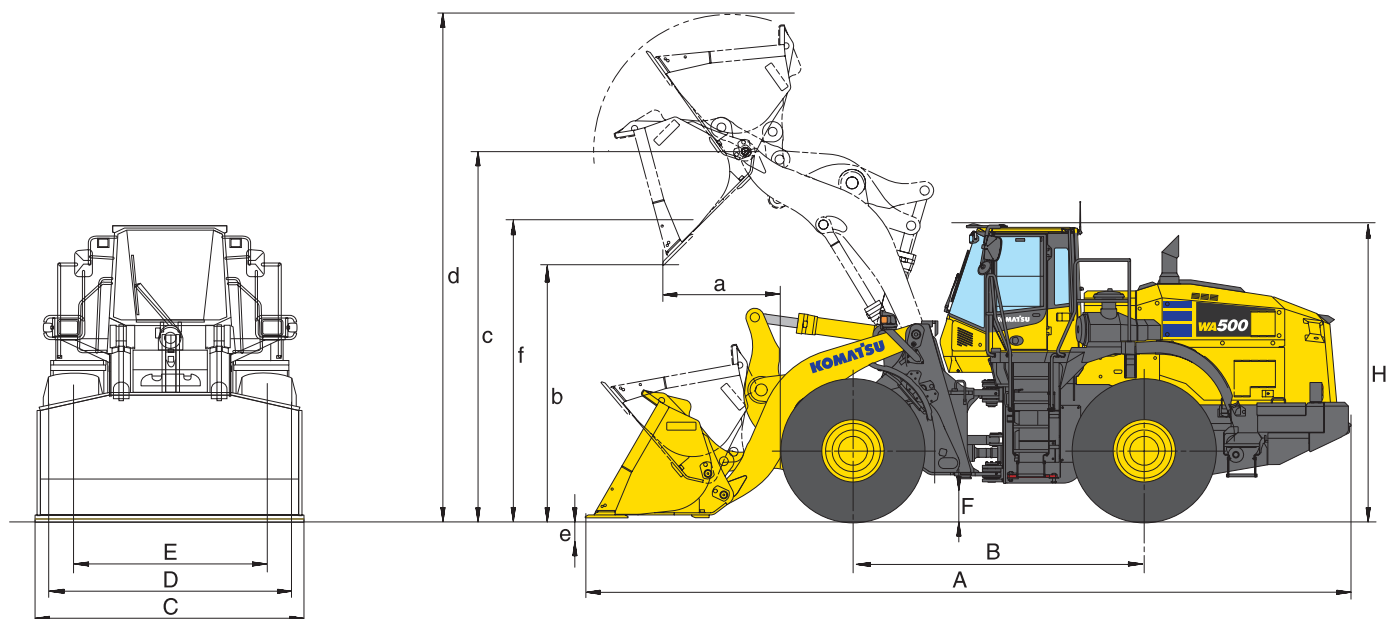
Stockpile bucket (C07)

Aggregate handling linkage

Measurements and working specifications

Bucket type		High-efficiency bucket with raised bottom			
		w. teeth	w. BOC	w. teeth	w. BOC
Bucket capacity (heaped, ISO 7546)	m ³	6.6	6.9	6.9	7.2
Sales code		C17	C18	C12	C13
Material density	t/m ³	1.75	1.70	1.65	1.60
Bucket weight	kg	3465	3320	3565	3530
Static tipping load, straight	kg	26575	26480	26220	26140
Static tipping load, articulated	kg	24050	23975	23720	23650
Break-out force hydraulic	kN	212	244	203	232
Lifting capability hydr. at ground level	kN	276	276	272	273
Operating weight	kg	36270	36220	36380	36335
Turning radius at corner of tyres	mm	6360	6360	6360	6360
Turning radius at bucket edge	mm	7825	7760	7860	7790
a Reach at 45°	mm	1880	1670	1970	1740
b Dumping height at 45°	mm	2810	3025	2755	2930
c Hinge pin height	mm	4770	4770	4770	4770
d Height top edge of bucket	mm	6795	6795	6795	6795
e Digging depth	mm	-150	-125	-150	-125
f Max. loading height at 45°	mm	4095	4095	4095	4095
A Overall length, bucket grounded	mm	10530	10220	10615	10320
B Wheel base	mm	3780	3780	3780	3780
C Bucket width	mm	3430	3440	3430	3440
D Width over tyres	mm	3150	3150	3150	3150
E Track width	mm	2400	2400	2400	2400
F Ground clearance	mm	465	465	465	465
H Overall height	mm	3800	3800	3800	3800

All measurements with tyres 29.5 R25 (XHA2), standard counterweight and additional heavy counterweight (A25).
 Details of dumping heights and reach to cutting edge or bolt-on cutting edge (BOC) or teeth.





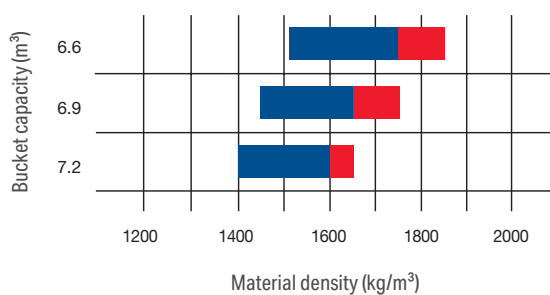
Typical material density – loose (in kg/m³)

Basalt	1960	Gravel, unscreened	1930	Sandstone	1510
Bauxite, kaolin	1420	Gravel, dry	1510	Slate	1250
Earth, dry, ex store	1510	Gravel, dry, 6 - 50 mm	1690	Slag, broken	1750
Earth, wet, excavated	1600	Gravel, wet, 6 - 50 mm	2020	Stone, crushed	1600
Gypsum, broken	1810	Sand, dry, loose	1420	Clay, natural	1660
Gypsum, crushed	1600	Sand, damp	1690	Clay, dry	1480
Granite, broken	1660	Sand, wet	1840	Clay, wet	1660
Limestone, broken	1540	Sand and clay, loose	1600	Clay and gravel, dry	1420
Limestone, crushed	1540	Sand and gravel, dry	1720	Clay and gravel, wet	1540

Bucket selection guide

115 100 95%

 Bucket fill factor



High-efficiency bucket with raised bottom (C17)

High-efficiency bucket with raised bottom (C12)

High-efficiency bucket with raised bottom (C13)

Standard and optional equipment

Engine

Komatsu SAA6D140E-7 turbocharged common rail direct injection diesel engine	●
EU Stage V compliant	●
Engine mode selection system: Power, Economy	●
Komatsu SmartLoader Logic	●
Adjustable idle shutdown	●
Auto-deceleration function	●
Fuel filter with water separator	●
Batteries 2 × 180 Ah / 2 × 12 V	●

Chassis and tyres

Heavy-duty axles	●
Front fenders	●
Full rear fenders	●
Limited-slip differential (LSD) front and rear	○
Tyres 29.5 R25 L2, L3, L5	○
Axle oil cooling system (front & rear)	○
Reinforced axles	○

Hydraulic system

2-spool main control valve	●
EPC fingertip control, two levers, including:	
- Bucket stop modulation	●
- Boom stop pre-setting	
- Automatic dig function	
Automatic return-to-dig	●
3-spool main control valve	○
EPC fingertip control, three levers	○
EPC 1-lever (multifunction lever) with sliding proportional control for attachments	○
Biodegradable oil for hydraulic system	○

Transmission and brakes

Electronically controlled ECMV automatic transmission with mode selector and variable transmission cut-off	●
Transmission shift mode selection system	●
Large-capacity torque converter	●
Torque converter lock-up	●
Auto-kickdown	●

Cabin

Spacious double door driver's cab to DIN/ISO	●
ROPS/FOPS frame according to SAE	●
Heated, high back air suspension seat, console mounted height adjustable arm rests	●
Retractable seat belt	●
Automatic climate control system	●
Multi-function video compatible colour monitor with Equipment Management and Monitoring System (EMMS) and efficiency guidance	●
DAB+ Radio with Bluetooth®, USB, AUX and hands-free kit	●
Hot and cool box	●
Heated rear window	●
Rear window wiper	●
Adjustable steering column	●
2 × 12 V power supply	●
Heated, high back air suspension seats with pneumatically adjustable lumbar support, console mounted height adjustable arm rests	○
Joystick steering with integrated F/R transmission function, 2-stage	○
3-point seat belt	○
Sun roller blind	○
Operator Assistance System with extended Load Pilot, efficiency trainer and rear-view monitor with camera	○
Radar obstacle detection for Operator Assistance System	○

Lighting system

2 halogen main headlights	●
2 spotlights at front and rear	●
Reversing light	●
Additional lights front and rear	○
LED working lights	○
Xenon working lights	○
Step light	○

Service and maintenance

Hydrostat-driven radiator fan with automatic reversing function	●
Wide core radiator	●
Komtrax – Komatsu Wireless Monitoring System (4G)	●
Komatsu Care – a maintenance program for Komatsu customers	●
Tool-set	●
Automatic central lubrication	●
Filling tool for central lubrication system	○
Turbo II air pre-cleaner, cyclone type	○

Safety equipment

Emergency steering system	●
Vandalism protection	●
Back-up alarm	●
Battery main switch	●
Handrails on left/right	●
Rear-view camera system	●
Fire extinguisher	○
Beacon light	○
Roof rail	○
Rear view mirror, heated and remote control	○
Optical back-up alarm (strobe light)	○

Attachments

High Lift equipment	○
Hydraulic quick-coupler	○
High efficiency buckets with raised bottom	○
Rock buckets	○
Stock pile buckets	○
Fork carrier and tines	○

Other equipment

Counterweight	●
Electronically controlled load stabilizer (ECSS II)	●
Aggregate handling linkage	○
Stone handler specification	○
Steel mill specification	○
Special custom colour	○
Cold area kit (engine and cab pre-heating)	○

Further equipment on request

- standard equipment
- optional equipment



A wide range of buckets and attachments is available. Your Komatsu distributor is ready to assist you with the selection of suitable options.

This specification sheet may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.

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