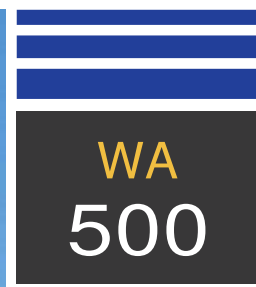
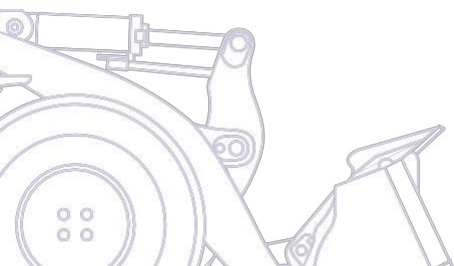


# KOMATSU



## Wheel Loader WA500-7

[DOWNLOAD SERVICE REPAIR MANUAL](#)



ENGINE POWER  
266kW /357 HP @ 1.900 rpm

**OPERATING WEIGHT**

34.985 - 35.700 kg

**BUCKET CAPACITY**

4,5 - 6,3 m<sup>3</sup>

# Walk-Around

The WA500-7 wheel loader is the perfect choice for heavy applications. On-board, “Komatsu SmartLoader Logic” is a new and fully automatic engine control that yields precisely enough torque for each work phase, considerably reducing fuel usage with no loss of productivity. Whatever the job, the WA500-7 can handle it – thanks to its outstanding tractive force and Closed-centre Load Sensing System (CLSS) hydraulics. Moreover, the new SpaceCab™ offers unrivalled operator comfort and an excellent view of the bucket and wheels.

Reliability, ease of service, economy and safety – the WA500-7 sets new standards in all areas.

## Simple & convenient handling

- New monitoring system
- Electronic Pilot Control (EPC) standard
- EPC-Multifunction lever (option)
- New, easy-to-use joystick steering (option)

## High productivity & low fuel consumption

- Low consumption EU Stage IIIB/EPA Tier 4 interim engine
- Large-capacity torque converter with standard lock-up
- Komatsu SmartLoader Logic
- More fuel-saving technology



## Excellent stability and manoeuvrability

- Superior dumping height and reach
- Wide tread and long wheelbase
- Boom suspension system for minimum spillage
- Komatsu CLSS hydraulic system



# WA500-7

## ENGINE POWER

266 kW / 357 HP @ 1.900 rpm

## OPERATING WEIGHT

34.985 - 35.700 kg

## BUCKET CAPACITY

4,5 - 6,3 m<sup>3</sup>



## First-class operator comfort

- Newly designed SpaceCab™
- Fully air suspended operator station
- Low noise design
- Improved operator convenience
- Rear view camera system



## Easy maintenance

- Wide core radiator with auto reverse fan
- Factory fitted automatic lubrication system
- Large gull-wing doors for easy access to service points
- Robust components with a long service life



Complimentary maintenance  
program for customers



Komatsu Wireless  
Monitoring System

# High Productivity & Low Fuel Consumption

## New Komatsu engine technology

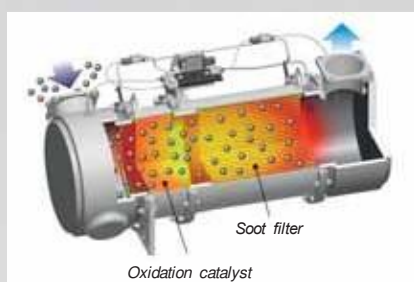
The powerful and fuel-efficient Komatsu SAA6D140E-6 engine in the WA500-7 delivers 266 kW / 357 HP and is EU Stage IIIB/EPA Tier 4 interim certified. Its turbo uses a hydraulic actuator to provide optimum charging pressure at all times, and makes the engine very responsive under any load conditions. The engine delivers 1.785 Nm of torque at just 1.250 rpm.

## Komatsu SmartLoader Logic

The WA500-7 provides Komatsu SmartLoader Logic, a new 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.

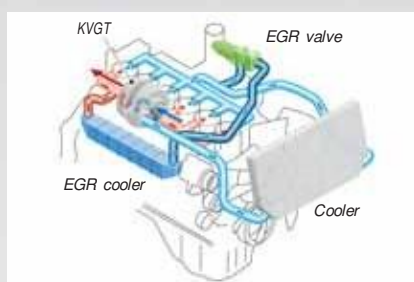
### Komatsu Diesel Particulate Filter (KDPF)

Komatsu's high efficiency DPF captures more than 90% of particulate matter. It includes a special oxidation catalyst with fuel injection system that can incinerate trapped particulates by either active or passive regeneration with no need to interrupt machine operations.



### 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 Variable Geometry Turbo (KVG)

The KVG provides optimal air flow 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.

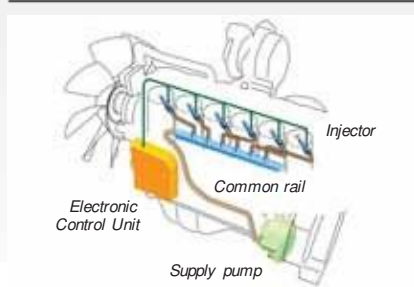


### Komatsu Closed Crankcase Ventilation (KCCV)

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.

### 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.



## More fuel-saving technology

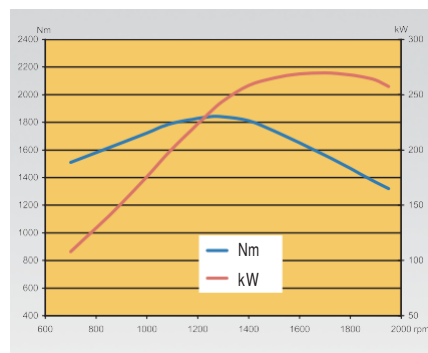
The selectable engine mode and adjustable idle shutdown are tools to considerably lower fuel usage. The WA500-7's Eco-Gauge displays active recommendations on the cab's monitor to help you maximise those fuel savings. For more fuel economy, the electronically controlled hydraulics pumps for the work and steering system prevent wasted hydraulic flow and deliver the exact amount of oil required for all movements of the machine.





## 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.



## 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.



# Excellent Stability and Manoeuvrability

## Wide tread and long wheelbase

A 2.400 mm wide tread and a long wheel base of 3.780 mm give the WA500-7 outstanding stability – enough to handle rough terrain and fast load & carry cycles with minimum spillage and maximum comfort. With 40° steering articulation to both sides, the WA500-7 is extremely manoeuvrable in tight spaces for faster loading cycles.

## Superior dumping height and reach

The long lifting frame allows an enormous dumping height of 3.265 mm and a reach of 1.545 mm that is just as impressive (with a 5,3 m³ bucket). With this working range, loading high feeders or trucks becomes easy and fast.

## 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 WA500-7 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.

## Boom suspension system

The boom suspension system reduces the shocks in the boom when driving with loads. Material can be transported at higher speeds with minimum spillage. When travelling below 7 km/h, the boom suspension is automatically deactivated for precise pallet loading into trucks.









# Simple & Convenient Handling

## **New monitoring system**

The WA500-7 has a brand new machine monitoring system that manages all essential functions. Specific settings can be saved in the attachment management program to speed up work in applications requiring a frequent change of buckets or other attachments.

## **“By Wire” operating**

The new 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 and EPC has a semiautomatic excavating function for the simple filling of buckets.

## **New, easy-to-use joystick steering (option)**

A new 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 new 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 WA500-7 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.

## **EPC-Multifunction 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.









# First-Class Operator Comfort

## Newly designed SpaceCab™

The WA500-7 cab features ample storage room with a large boot box, a storage box on the left hand side and a hot or cold box on the right. For ideal Komatsu comfort, climate control can be set to the desired temperature, and the angle of the armrest is fully adjustable. The new user friendly TFT colour monitor has a highly intuitive interface. Easily customized, with simple switches or multifunction keys and a choice of 25 languages, it gives you fingertip access to a wide range of functions and operating information to enable safe, accurate and smooth work.

## Low noise design

The large cab is built on Komatsu's unique ROPS/FOPS viscous mounts. The low-noise engine, the hydraulically driven fan, and the hydraulic pumps are mounted with rubber cushions, and the sealing and noise insulation material provide a quiet, low-vibration, and dustproof environment.

## Fully air suspended operator station

The wide spacious cab features a new, fully air suspended operator control station that incorporates the side consoles mounted together with a high back, fully adjustable seat, heated (optional) for improved comfort.

## Improved operator convenience

With increased in-cab storage space, an auxiliary input (MP3 jack) and 12 V and 24 V power supply, the cab offers maximum convenience. The automatic air conditioner allows the operator to easily and precisely set the cab's atmosphere.

## 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.



Auxiliary input (MP3 jack)



New monitoring system







# Easy Maintenance



Komatsu CARE is a complimentary maintenance program for Komatsu customers that comes as standard with every new Komatsu EU Stage IIIB construction machine. For the first 3 years or 2.000 hours it covers factory-scheduled maintenance, performed by Komatsu-trained technicians with Komatsu Genuine parts. It also offers up to a maximum of 2 complimentary Komatsu Diesel Particulate Filter (KDPF) exchange units and a KDPF warranty for the first 5 years or 9.000 hours.

## 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 all filters collected in a centralised arrangement, machine downtime is reduced to a minimum.



## 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.

## 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.



## Equipment Management Monitoring System (EMMS)

The new 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.



## 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

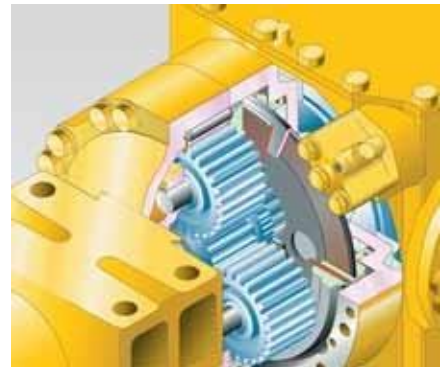
The heavy-duty axles allow exceptional service life even under the toughest working conditions. The optional limited slip differentials are most suitable for soft and slippery ground like sand or wet soil.

## Wet multi-disc service brake

The multi-disc service brake is encapsulated and runs in an oil bath. The brake stays clean and operates at low temperature for increased service intervals and a long lifetime.

## 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.





# Komatsu Wireless Monitoring System

## The easy way to higher productivity

KOMTRAX™ is the latest in wireless monitoring technology. It delivers insightful and cost saving information about your fleet and equipment and offers you a wealth of information to facilitate peak machine performance. By creating a tightly integrated web of support it allows pro active and preventive maintenance and helps you to efficiently run a business.

## 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 satellite from your machine to your computer and to your local Komatsu distributor - who's readily available for expert analysis and feedback.

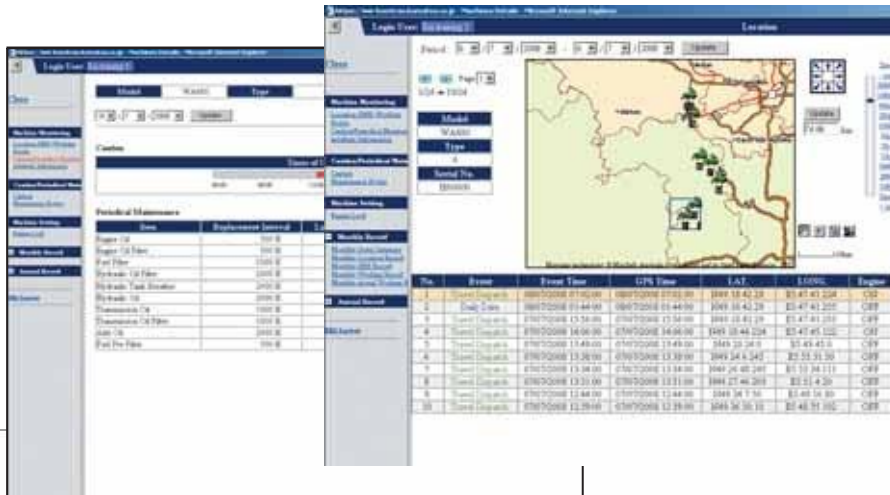
## Convenience

KOMTRAX™ helps to conveniently manage your fleet on the web, wherever you are. Data is analysed and packaged specifically for easy and intuitive viewing in maps, lists, graphs and charts. You can anticipate the type of service and parts your machines could require, or troubleshoot problems before Komatsu technicians arrive on site.

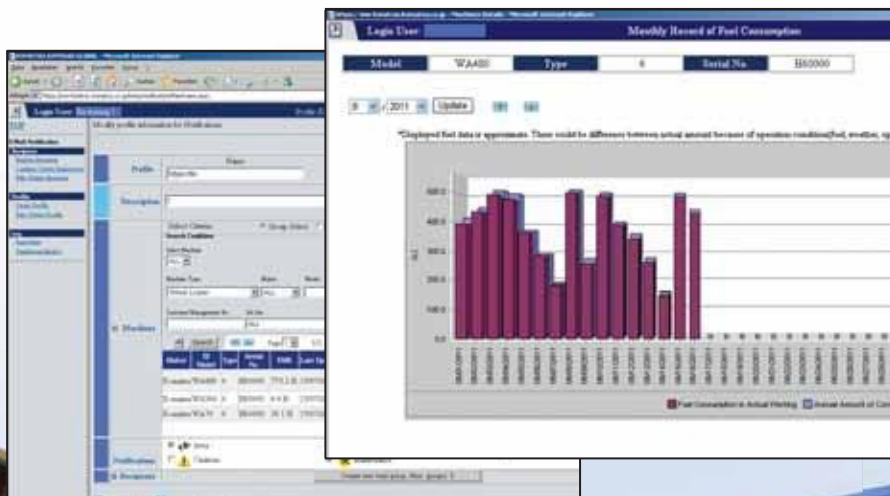


## Power

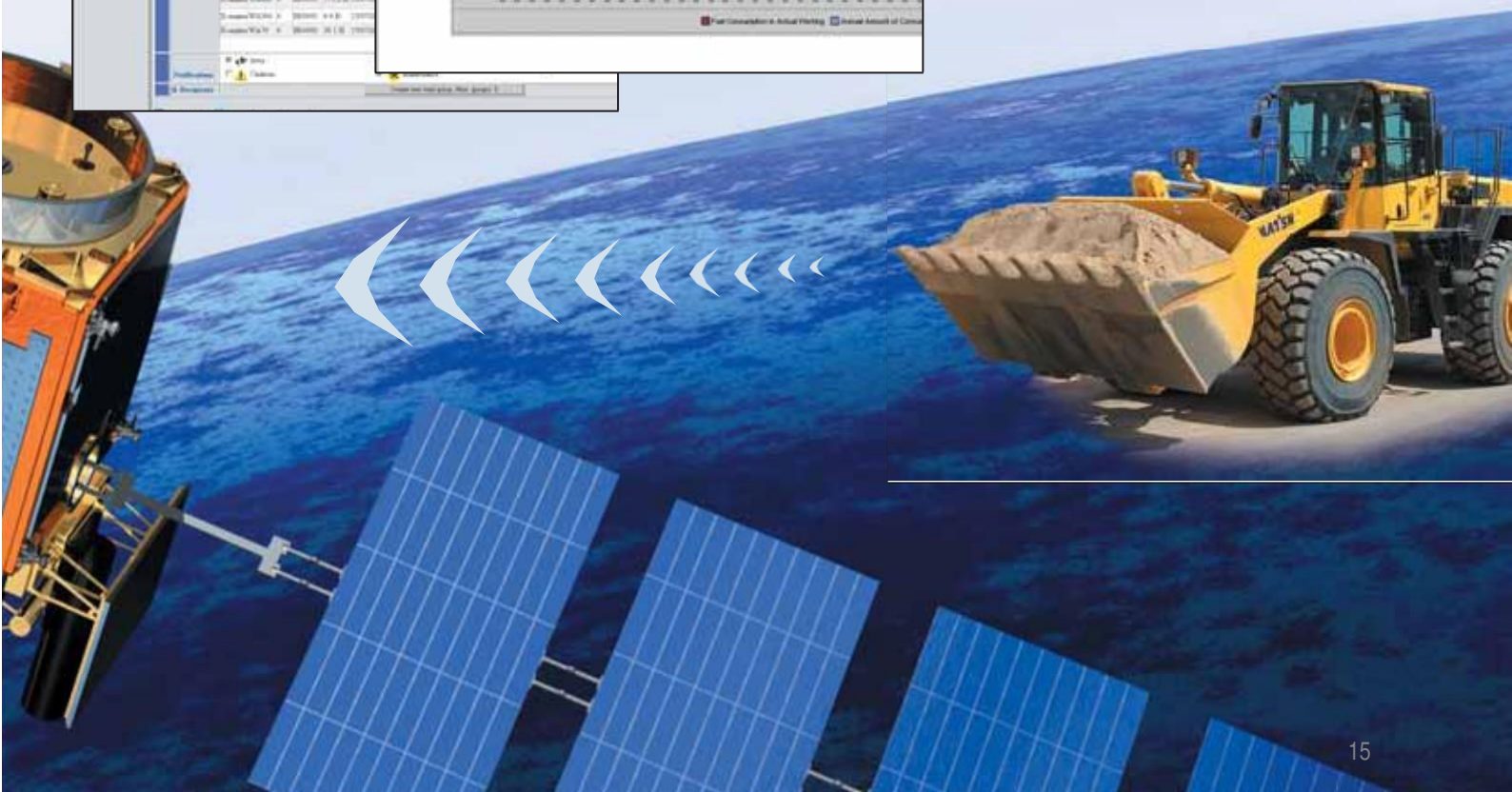
The detailed information that KOMTRAX™ puts at your fingertips 24 hours a day, 7 days a week gives you the power to make better daily and long-term strategic decisions. You can anticipate problems, customize maintenance schedules, minimize downtime and keep your machines where they belong – working on the job site.



Through the web application, a variety of search parameters are available to quickly find information about specific machines based on key factors such as utilization rates, age, various notification messages, and more.



A simple chart shows the machine's fuel consumption and helps you to calculate total costs for a job site and conveniently schedule fuel deliveries.





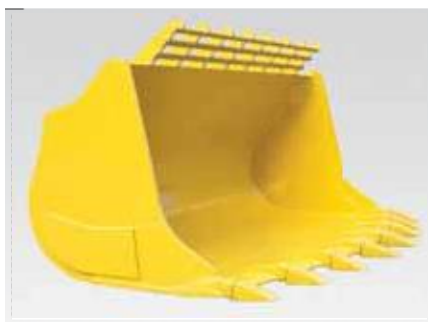


# Buckets and Attachments



## Universal bucket

This type of bucket is impressive because of its excellent penetration and loosening properties and its good material holding properties. This universal bucket can be equipped with flush mount adapters and interchangeable teeth.



## Rock bucket

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 Kmax™ 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.



## Kmax tooth system

The Kmax tooth system optimizes the bucket performance and makes changing teeth quick and easy. It comes with a patented locking system in which teeth are held in place with lateral pins. Kmax uses the highest-specification steels with a number of tooth styles to suit a variety of applications.



## Hydraulic quick coupler

The WA500-7 can change attachments in a matter of seconds with a market compatible or HD wedge type quick coupler. With the wedge type quick coupler, featuring a unique and innovative design, the offset to the original connection points is reduced to a minimum. Thus, lifting forces remain almost the same compared to a direct mounted bucket.



## A comprehensive range of attachments

The log grapple: With its sturdy structure and its great hydraulic power and a special tilting cylinder, the WA500-7 is also perfectly suited to work in the timber industry. The robust design of the lifting frame and axles ensures maximum durability.

## ENGINE

Model .....	Komatsu SAA6D140E-6
	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed .....	1.900 rpm
ISO 14396 .....	266 kW / 357 HP
ISO 9249 (net engine power) .....	263 kW / 353 HP
Max. torque / engine speed .....	1.785 Nm / 1.250 rpm
No. of cylinders .....	6
Bore x stroke .....	140 x 165 mm
Displacement .....	15,24 ltr
Fan drivetype .....	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

## TRANSMISSION

Type .....	Automatic powershift transmission
Torque converter .....	One-stage, two-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, 24° swing angle (LSD-differential optional)
Differential .....	Spiral bevel gear pair
Final drive .....	Planetary gear in an oil bath
Tyres .....	29.5 R25

## SERVICE REFILL CAPACITIES

Cooling system .....	133 ltr
Fuel tank .....	473 ltr
Engine oil .....	37 ltr
Hydraulic system .....	337 ltr
Front axle .....	95 ltr
Rear axle .....	95 ltr
Torque converter and transmission .....	71 ltr

## 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 <sup>2</sup>
Maximum pump flow .....	320 ltr/min
No. of hydraulic/bucket cylinders .....	2/1
Type .....	Double-action
Bore diameter x stroke	
Boom cylinder .....	160 x 989 mm
Bucket cylinder .....	185 x 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 <sup>2</sup>
Pumping capacity .....	120 ltr/min
No. of steering cylinders .....	2
Type .....	Double-action
Bore diameter x stroke .....	100 x 486 mm
Smallest turn (outer edge of the tyre 29.5 R25) .....	7.050 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.

## ENVIRONMENT

Engine emissions .....	Fully complies with EU Stage IIIB and EPA Tier 4 interim 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 .....	≤ 2,5 m/s <sup>2</sup> (uncertainty K = 1,12 m/s <sup>2</sup> )
Body .....	≤ 0,5 m/s <sup>2</sup> (uncertainty K = 0,24 m/s <sup>2</sup> )
* for the purpose of risk assessment under directive 2002/44/EC, please refer to ISO/TR 25398:2006.	



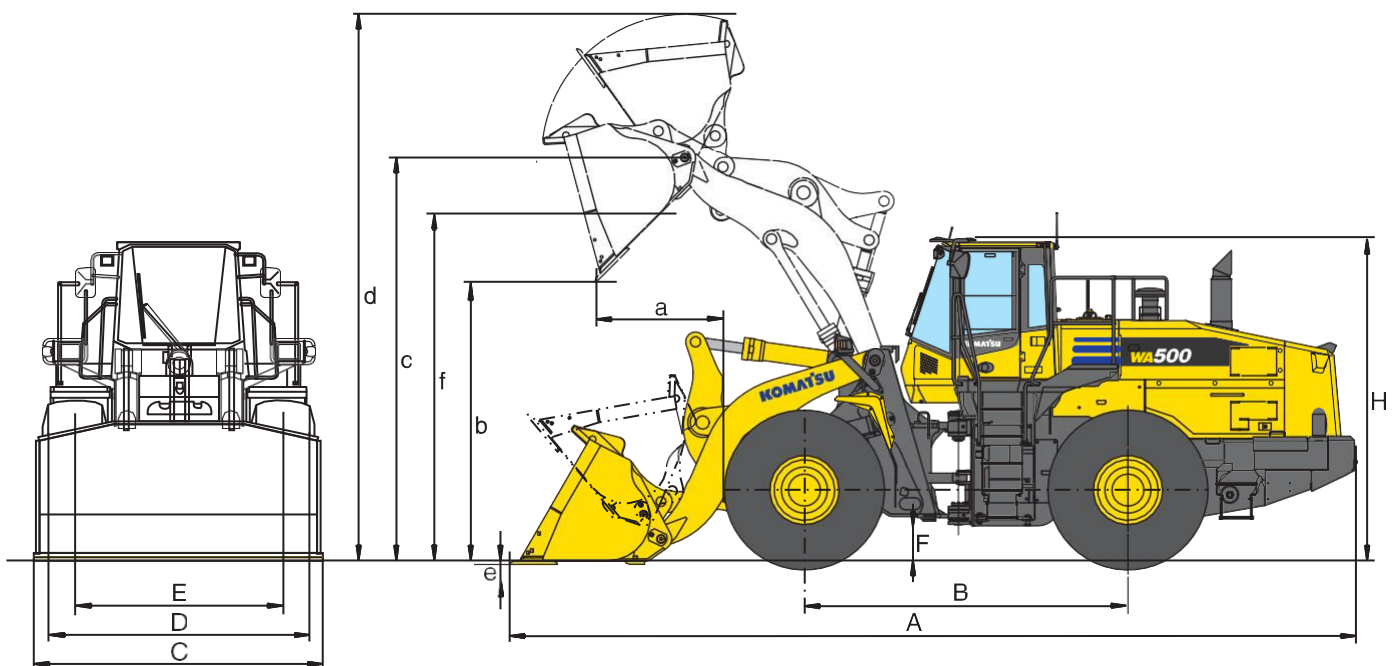
# Dimensions & Performance Figures

## MEASUREMENTS AND WORKING SPECIFICATIONS

Bucket type		Universal bucket		Rock bucket Straight edge		Rock bucket Spade nose	
		w. teeth	w. BOC	w. teeth	w. teeth & BOC	w. teeth	w. teeth & BOC
Bucket capacity (heaped, ISO 7546)	m <sup>3</sup>	<b>5,3</b>	<b>5,6</b>	<b>5,3</b>	<b>5,6</b>	<b>5,2</b>	<b>5,6</b>
Sales code		3987 C02	C03	C29	C30	C32	C33
Material density	t/m <sup>3</sup>	1,85	1,75	1,9	1,75	1,85	1,75
Bucket weight	kg	2.875	2.915	3.015	3.060	3.240	3.280
Static tipping load, straight	kg	26.760	26.530	26.695	26.445	26.125	25.965
Static tipping load, 40° articulated	kg	22.880	22.680	22.810	22.590	22.320	22.135
Break-out force hydraulic	kN	287	273	287	273	235	225
Lifting capability hydr. at ground level	kN	300	298	298	297	293	292
Operating weight	kg	35.095	35.335	35.435	35.480	35.660	35.700
Turning radius at corner of tyres	mm	6.870	6.870	6.870	6.870	6.870	6.870
Turning radius at bucket edge	mm	7.660	7.600	7.660	7.600	7.660	7.700
a Reach at 45°	mm	1.545	1.360	1.545	1.360	1.545	1.585
b Dumping height at 45°	mm	3.265	3.325	3.265	3.265	3.265	3.265
c Hinge pin height	mm	4.795	4.795	4.795	4.795	4.795	4.795
d Height top edge of bucket	mm	6.535	6.535	6.715	6.715	6.715	6.715
e Digging depth	mm	95	125	95	125	120	125
f Max. loading height at 45°	mm	4.420	4.420	4.420	4.420	4.420	4.420
A Overall length, bucket grounded	mm	9.890	9.680	9.890	9.680	9.900	10.000
B Wheel base	mm	3.780	3.780	3.780	3.780	3.780	3.780
C Bucket width	mm	3.430	3.440	3.430	3.440	3.430	3.440
D Width over tyres	mm	3.150	3.150	3.150	3.150	3.150	3.150
E Track width	mm	2.400	2.400	2.400	2.400	2.400	2.400
F Ground clearance	mm	460	460	460	460	460	460
H Overall height	mm	3.820	3.820	3.820	3.820	3.820	3.820

All measurements with tyres 29.5 R25 (XLDD1A).

Details of dumping heights and reach to cutting edge or bolt-on cutting edge (BOC) or teeth





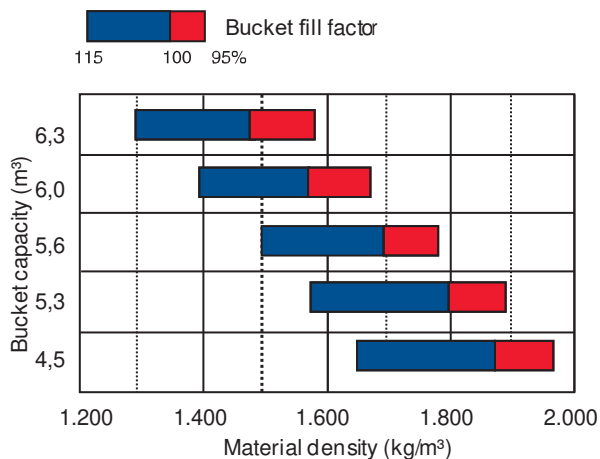
Stock pile bucket					Universal bucket (High lift)	
w/o. teeth	w. teeth	w. BOC	w/o. teeth	w. BOC	w. teeth	w. BOC
5,6	5,6	5,9	6,0	6,3	4,5	4,7
C10	C11	C12	C05	C07	C14	C15
1,77	1,75	1,65	1,65	1,6	1,88	1,8
2.765	2.975	3.020	2.870	3.125	2.570	2.620
24.805	24.520	26.270	24.840	26.060	21.190	21.065
21.220	20.935	22.440	21.230	22.245	18.030	17.915
277	277	264	264	252	320	303
300	297	295	297	292	254	253
34.985	35.195	35.440	35.090	35.545	35.170	35.215
6.870	6.870	6.870	6.870	6.870	6.870	6.870
7.590	7.680	7.620	7.610	7.640	7.840	7.780
1.360	1.580	1.395	1.415	1.445	1.545	1.355
3.455	3.235	3.280	3.340	3.225	3.800	3.945
4.795	4.795	4.795	4.795	4.795	5.205	5.205
6.605	6.605	6.605	6.685	6.685	6.795	6.795
95	95	95	95	125	170	200
4.420	4.420	4.420	4.420	4.420	4.845	4.845
9.630	9.940	9.730	9.705	9.805	10.205	10.190
3.780	3.780	3.780	3.780	3.780	3.780	3.780
3.430	3.430	3.440	3.430	3.440	3.430	3.440
3.150	3.150	3.150	3.150	3.150	3.150	3.150
2.400	2.400	2.400	2.400	2.400	2.400	2.400
460	460	460	460	460	460	460
3.820	3.820	3.820	3.820	3.820	3.820	3.820

#### TYPICAL MATERIAL DENSITY – LOOSE (IN kg/m<sup>3</sup>)

Basalt	1.960
Bauxite, Kaolin	1.420
Earth, dry, ex store	1.510
Earth, wet, excavated	1.600
Gypsum, broken	1.810
Gypsum, crushed	1.600
Granite, broken	1.660
Limestone, broken	1.540
Limestone, crushed	1.540
Gravel, unscreened	1.930
Gravel, dry	1.510
Gravel, dry, 6-50 mm	1.690
Gravel, wet, 6-50 mm	2.020
Sand, dry, loose	1.420
Sand, damp	1.690
Sand, wet	1.840
Sand and clay, loose	1.600
Sand and gravel, dry	1.720
Sandstone	1.510
Slate	1.250
Slag, broken	1.750
Stone, crushed	1.600
Clay, natural	1.660
Clay, dry	1.480
Clay, wet	1.660
Clay and gravel, dry	1.420
Clay and gravel, wet	1.540

#### CHANGE IN DATA CAUSED BY:

		Tyres XHA L3	Tyres XMINE L5
Operating weight	kg	-500	+635
Static tipping load, straight	kg	-360	+450
Static tipping load, 40° articulated	kg	-315	+400
Reach at 45°	mm	+20	+5
Dump height at 45°	mm	-20	+10
Width over tyres	mm	-20	+35
Overall height	mm	-20	+20



Stock pile bucket  
Loading loosened material  
Stock pile bucket  
Loading loosened or broken material, or load & carry  
Universal and stock pile bucket  
Earthworks, broken material or load & carry  
Rock bucket  
Loading blasted and particularly abrasive material  
Rock bucket  
Loading blasted and particularly abrasive material  
in combination with high-lift boom



# Wheel Loader

# WA500-7

## Standard and Optional Equipment

### ENGINE

Komatsu SAA6D140E-6 turbocharged common rail direct injection diesel engine	●
EU Stage IIIB/EPA Tier 4 interim compliant	●
Komatsu SmartLoader Logic	●
Adjustable idle shutdown	●
Fuel filter with water separator	●
Batteries 2 x 180 Ah/2 x 12 V	●

### CHASSIS AND TYRES

Heavy-duty axles	●
Front fenders	●
Limited-slip differential (LSD) front and rear	○
Tyres 29.5 R25 L3, L4, L5	○
Full rear fenders	○

### HYDRAULIC SYSTEM

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

### SERVICE AND MAINTENANCE

Hydrostat-driven radiator fan with automatic reversing function	●
Wide core radiator	●
KOMTRAX™ - Komatsu wireless monitoring system	●
Komatsu CARE	●
Tool-set	●
Automatic central lubrication	●
Filling tool for central lubrication system	○
Turbolub air pre-cleaner, cyclone type	○

### CABIN

Spacious double door driver's cab to DIN/ISO	●
ROPS/FOPS frame according to SAE	●
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	●
CD radio w. auxiliary input (MP3 jack)	●
Hot and cool box	●
Heated rear window	●
Rear window wiper	●
Adjustable steering column	●
2 x 12 V power supply	●
Heated, high back air suspension seat with 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	○

### TRANSMISSION AND BRAKES

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

### LIGHTING SYSTEM

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

### SAFETY EQUIPMENT

Emergency steering system	●
Vandalism protection	●
Back-up alarm	●
Battery main switch	●
Handrails on left/right	●
Rear view camera system	●
Front screen protective grid	○
Shatterproof safety glass front window	○
Fire extinguisher	○
Beacon light	○
Electronic anti-theft lock	○
Electronic anti-theft lock with master key for fleet owners	○
Roof rail	○
Additional convex rear view mirror	○
Optical back-up alarm (strobe light)	○

### ATTACHMENTS

High-lift equipment	○
Hydraulic quick-coupler	○
Universal buckets	○
Stock pile buckets	○
Rock buckets	○
High-dump buckets	○
Light material buckets	○
Fork carrier and tines	○
Log grapples	○

### OTHER EQUIPMENT

Counterweight	●
Electronically controlled load stabilizer (ECSS II)	●
Special custom colour	○
Cold area kit (engine and cab pre-heating)	○

Further equipment on request

The WA500-7 is equipped in accordance with the safety regulations of the machinery guidelines 89/392 EWG ff and EN474.

- standard equipment
- optional equipment

Your Komatsu partner:

# KOMATSU

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