

**KOMATSU**<sup>®</sup>

# WHEEL LOADER

## WA500-6

### HORSEPOWER

Gross: 266 kW **357 hp** @ 1,900 min<sup>-1</sup>  
Net: 263 kW **353 hp** @ 1,900 min<sup>-1</sup>

### OPERATING WEIGHT

33,220 - 34,540 kg

### BUCKET CAPACITY

4.3 - 5.6 m<sup>3</sup>



ORIGIN JAPAN / KLTD

Photos of the equipment are referential, may include optional equipment.

# I WA500-6 WALK-AROUND

**ENGINE  
POWER  
357 hp**



\*Photo may include optional equipment.

**HIGH  
PRODUCTIVITY  
& LOW FUEL  
CONSUMPTION**

- » Precision control with closed-center load sensing system (CLSS) hydraulics.
- » Faster travel & lower fuel consumption.
- » Advanced power train.
- » Maximum dumping clearance and reach.

**INCREASED  
RELIABILITY**

- » Komatsu designed components.
- » High-rigidity frames and loader linkage.
- » Wet multiple-disc brakes and fully hydraulic braking system.

**EXCELLENT  
OPERATOR  
ENVIRONMENT**

- » Pillar-less large cab.
- » Best position for comfort.
- » Automatic transmission.
- » Easy & simple operation.

**EASY  
MAINTENANCE**

- » Easy radiator cleaning.
- » Equipment management monitoring system.
- » Maintenance accessibility.

**SAFETY**

- » ROPS/FOPS cab (ISO 3471/ISO 3449).
- » Rear-hinged full open cab door.

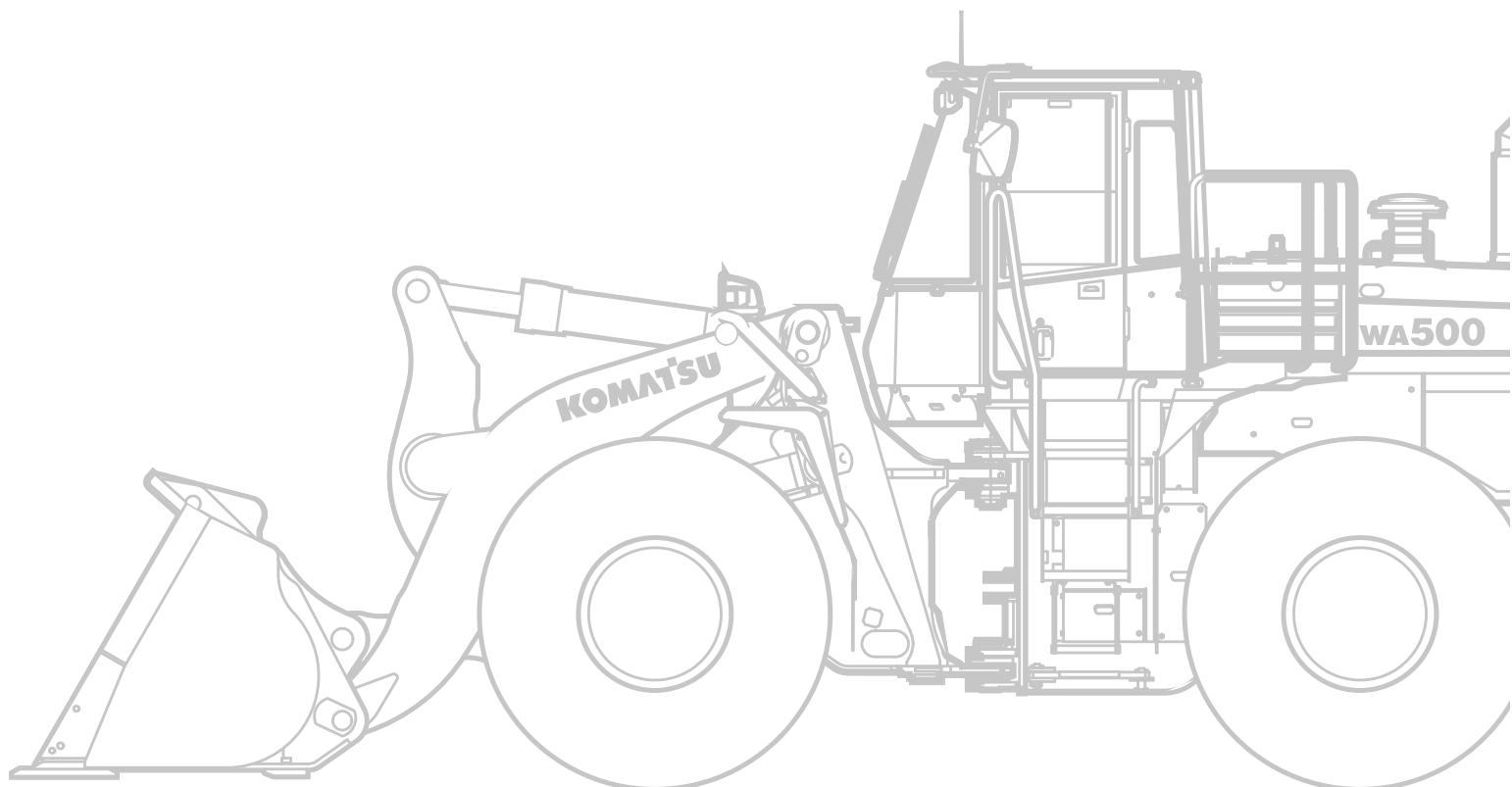
**KOMTRAX**

**WA500-6**

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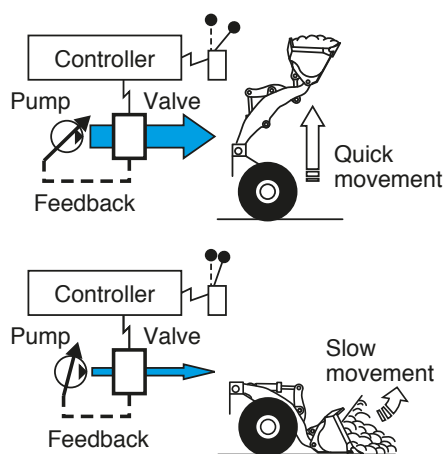


# HIGH PRODUCTIVITY & LOW FUEL CONSUMPTION

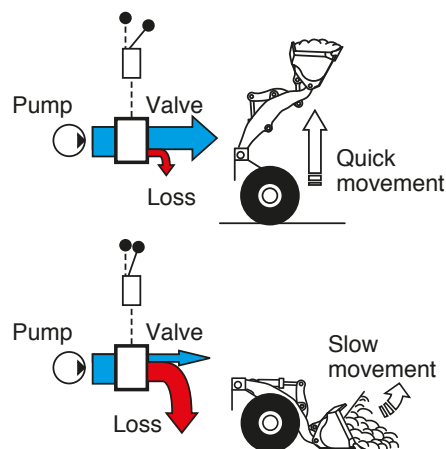


## » Precision control with closed-center load sensing system (CLSS) hydraulics

»The WA500-6 features variable-displacement pumps on both the hydraulic and steering systems. These pumps deliver the exact amount of oil required, dramatically improving fuel efficiency. Komatsu's closed-center load sensing system (CLSS) hydraulics enables extremely precise control of the working gear, and ensures that the bucket, boom and hydraulically driven attachments can all move smoothly at the same time.



**Variable displacement piston pump & closed-center load sensing system (CLSS)**



**Fixed displacement piston pump**

## »Faster travel & lower fuel consumption

### •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.

### •Automatic transmission with mode select system

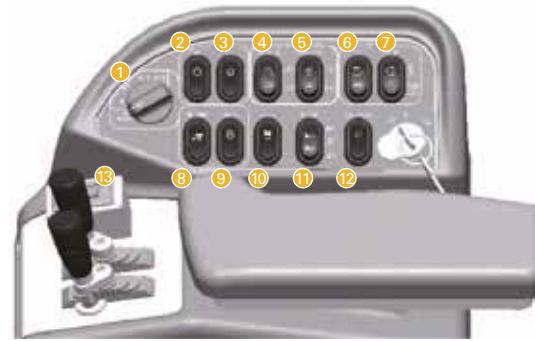
»This operator controlled system allows the operator to select manual shifting or two levels of automatic shifting (low, and high). Auto L mode is for fuel saving operation with the gear shift timing set at lower speeds than Auto H mode. Therefore Auto L mode keeps the engine in a relatively low rpm range for fuel conservation while yielding adequate tractive force by depressing the accelerator pedal.

## »Advanced power train

»The newly designed Komatsu power train features a large capacity torque converter for maximum efficiency and unparalleled rimpull to weight ratio. The outstanding rimpull at low speeds makes child's play of heavy job like penetrating blasted rock. This ensures higher productivity in V-shaped loading - even in confined spaces. With plenty of acceleration and high travel speeds (even on inclines and steep ramps), the WA500-6 delivers great productivity and value in load & carry operations. Together, the enhanced engine torque and high-capacity torque converter put the WA500-6 at the top of its class.

### •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. This optional feature allows the operator to activate the system on/off with a switch located on the right-side control panel.



- 1 Transmission auto shift/manual selector switch
- 2 Transmission cut-off switch
- 3 Transmission cut-off set switch
- 4 Remote positioner raise/lower set switch
- 5 Remote positioner bucket angle set switch
- 6 RPM set ON-OFF switch
- 7 RPM set idling up-down selector switch
- 8 Engine power mode selector switch
- 9 Torque converter lockup switch (optional)
- 10 Directional selector ON/OFF switch (optional)
- 11 Semi auto digging switch
- 12 Cooling fan reverse rotation switch
- 13 Directional selector switch (optional)

## »Maximum dumping clearance and reach

»The WA500 enables loading onto 32 t (40 short ton) with the standard spec whereas WA500-6 necessitates the high lift boom with the 4.5 m<sup>3</sup> bucket for it. Operator can get good visibility because of high his eye point.



## »Long wheelbase/articulation angle of 40°

»The widest tread in class and the long wheelbase provide improved machine stability in both longitudinal and lateral directions. Since the articulation angle is 40°, the operator can work efficiently even in the tightest job sites.

Tread	2,400 mm
Wheelbase	3,780 mm
Minimum turning radius (center of outside tire)	6,430 mm





# I INCREASED RELIABILITY



## »Komatsu designed components

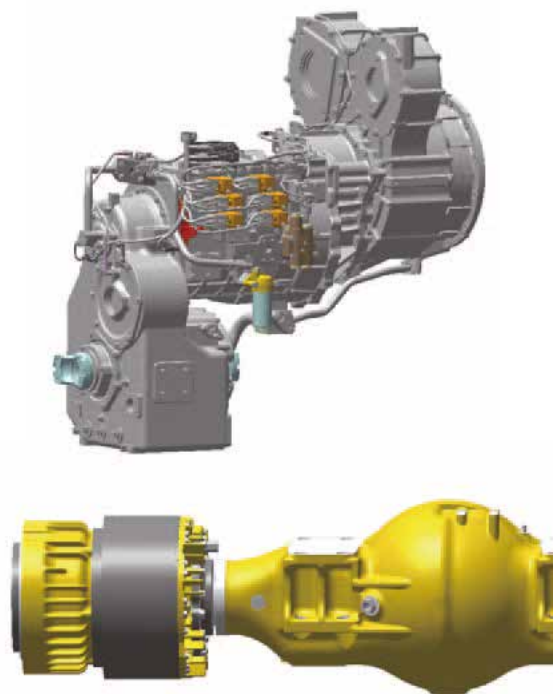
»Komatsu develops and manufactures the hydraulic pumps and valves, front and rear axles, engine, transmission and torque converter itself. All the components are subject to the highest engineering and quality standards – right down to the smallest screw. They are all designed to work together perfectly for maximum efficiency and reliability.

## •Newly developed transmission

»The Komatsu planetary transmission with electronically controlled automatic shifting ensures a perfect gear change every time. Based on the travel speed, the engine speed and the angle of the accelerator pedal, the system calculates the ideal shifting point to keep the engine in an economical operating range and ensures a smooth gear shift. This guarantees maximum productivity with minimal effort, allowing the operator to concentrate on the job at hand.

## •Durable, heavy-duty axles

»A new development, the heavy-duty axles enable an above-average service life even under the toughest working conditions. The WA500-6 can also be equipped with optional multi-disc, limited-slip differentials for even greater tractive force.



### »Komatsu developed engine

»Komatsu SAA6D140E-5 engine with high pressure common rail injection delivers ample power in a fuel efficient way. The engine meets EU Stage 3A and EPA Tier III emissions regulations. WA500-6's Komatsu SAA6D140E-5 engine features higher torque, better performance at low speed, excellent throttle response and advanced electronics.

### •High pressure common rail (HPCR) fuel injection system

»A high pressure pump pumps fuel into "common rail". An electronic control unit (ECU) then optimizes fuel injection from the common rail into the engine cylinders. This improves engine power and fuel efficiency, reducing emission and noise levels.

### »High-rigidity frames and loader linkage

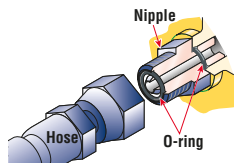
»The front and rear frames and the loader linkage have more torsional rigidity to secure resistance against increased stress due to the use of a larger bucket. Frame and loader linkage are designed to accommodate actual working loads, and simulated computer testing proves its strength.



### »Reliable hydraulic line

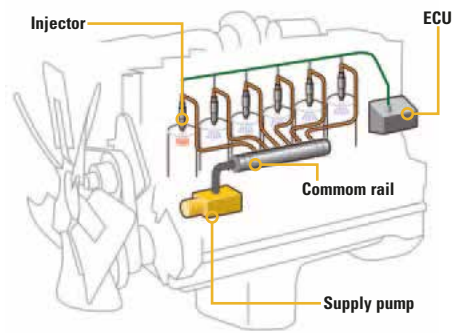
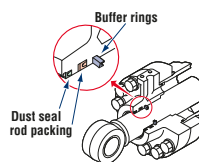
#### •Flat face-to-face O-ring seals

»Flat face-to-face O-ring seals are used to securely seal hydraulic hose connections and to prevent oil leakage.



#### •Buffer rings

»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.

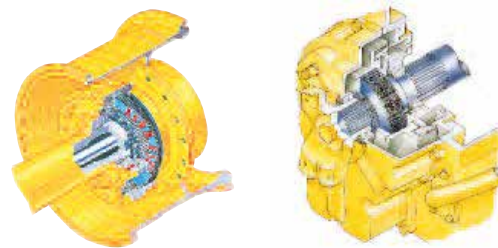


### •Cooled exhaust gas recirculation (EGR) system

»Cooled exhaust gas returned to the cylinders prevents nitrogen and oxygen bonding during combustion, reducing NOx emissions, lowering thermal stress and improving fuel efficiency.

### »Wet multiple-disc brakes and fully hydraulic braking system

»Fully sealed wet multiple-disc brakes exert great performance even in the puddles and on soft ground. Added reliability is designed into the two independent braking systems with the fully hydraulic circuits. Provides hydraulic backup should one of the circuits fail. There is neither air system to bleed, nor the condensation of water in the system that can lead to contamination, corrosion and freezing.



### »Sealed DT connectors

»Main harnesses and controller connectors are equipped with sealed connectors providing high reliability, water resistance and dust resistance.



# EXCELLENT OPERATOR ENVIRONMENT

The largest in its class, the spacious cab offers exceptional driver's comfort - comparable to a passenger car. The large, frameless window gives an unobstructed view of the bucket and tires while the slanted rear end ensures a clear view to the rear. The low-noise designed cab with the air-cushioned seat and the fully adjustable console inside allow the operator to work comfortably and productively over a long period.



1 Tilt adjustment 2 Telescopic adjustment



## »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.

## »Low-noise design

»The large cab is mounted with Komatsu's unique ROPS/ FOPS (ISO 3471/ISO 3449) 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.

## »Best position for comfort

### •Telescopic / tilt steering column

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

### •Ergonomic hydraulic controls and large armrest

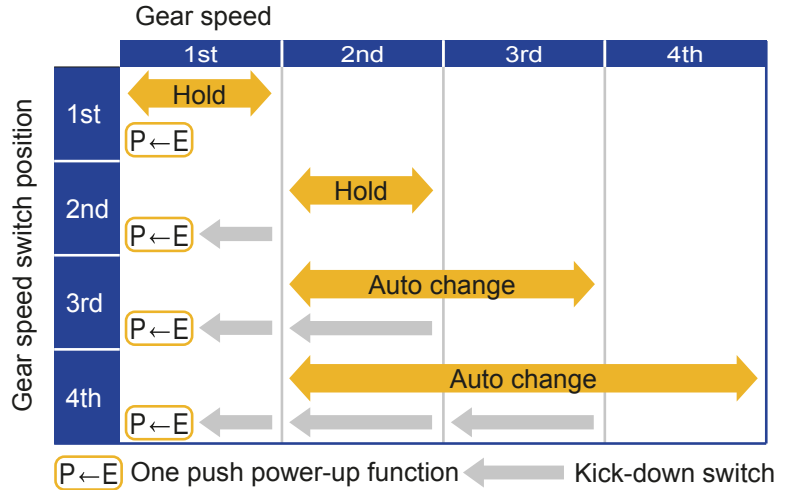
»The electronic pilot control (EPC) levers offer precise, fatigue-free control of the loading process.

»The height of and distance to the sliding console and the large armrest can be adjusted for maximum comfort.



### »Automatic transmission

»Automatic transmission with electronic controlled modulation valve selects automatically the proper gear speed based on travel speed, engine speed and other travel conditions. The electronic controlled modulation valve system engages the clutch smoothly to prevent lags and shocks when shifting, allowing the operator to be released from gear shift operation itself.



### •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.



### •Kick-down switch

»The kick-down switch downshifts to a lower gear when the operator pushes the switch. Gear position is automatically reset when putting the gear into reverse.

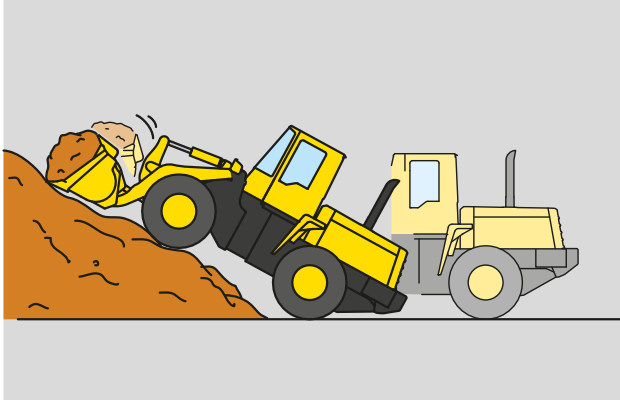
### •One push power-up

»The kick-down switch allows to increase power temporarily in E mode. In the 1<sup>st</sup> gear with E mode, pressing the kick-down switch changes the mode to P mode. Useful for heavy digging operation during light application such as Load & Carry operation.

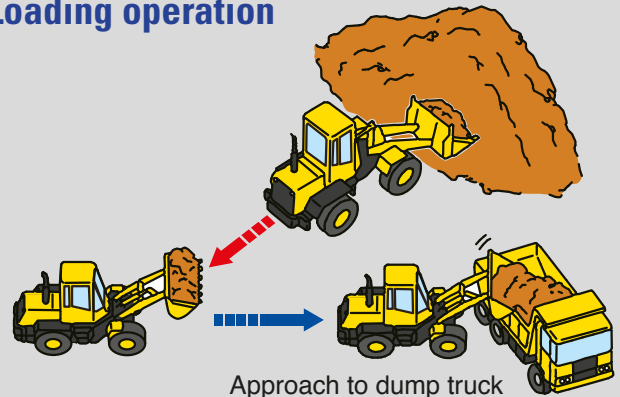
### •Variable transmission cut-off

»The operator can adjust the transmission cut-off connected to the left brake pedal with the switch near the operator's seat to set the brake/cut-off point for easier operation and higher operating performance in variable operating conditions.

### Piling up operation



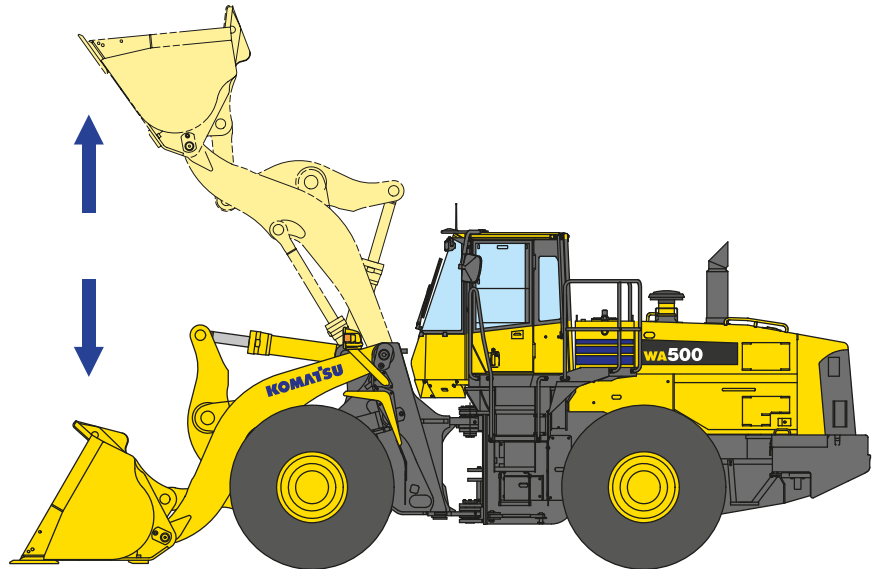
### Loading operation



## »Easy & simple operation

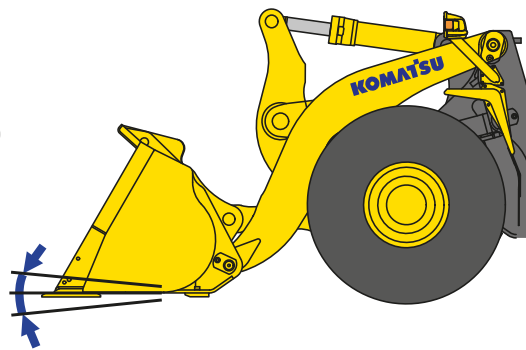
### •Remote boom positioner

»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 bucket return-to-dig angle can be adjusted by up to 5 degrees in either direction to suit the ground condition.



### •Automatic boom & bucket kick-out

»The kick-out positions can be adjusted from the operator's seat, stopping lifting and lowering actions smoothly at the desired point so the operator can focus on the job at hand.

## »Option

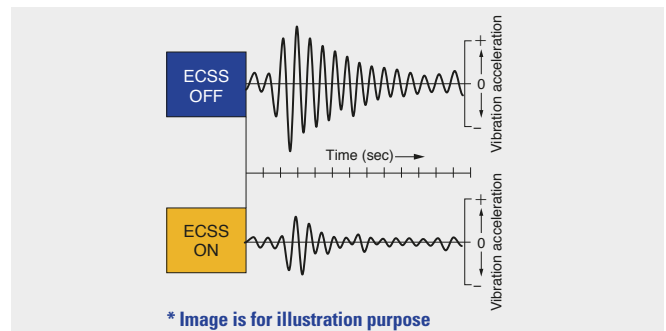
### •Joystick steering

»A joystick steering system is available as option 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.



### •Electronically controlled suspension system (ECSS)

»Electronically controlled suspension system uses an accumulator which absorbs some of the shock in the boom arm, giving the operator a much smoother ride. This reduces operator fatigue and reduces material spillage during load and carry operations. Electronically controlled suspension system operation is speed-sensitive and turned off automatically below 5 km/h speed, meaning that the boom won't move during stationary digging.



# EASY MAINTENANCE

With long service intervals and best-in-class accessibility, the WA500-6 reduces the time and money you need to spend on maintenance. A gas spring helps the operator open and close each gull-wing side door for easy daily servicing.



\*Photo may include optional equipment.

## »Easy radiator cleaning

### •Reversible hydraulic fan

»A push-button switch in the cab allows the operator to run the radiator fan in reverse for working in dusty environments.

### •Swing out fan

»The hinged, bolt-on fan can be swung out for easier cleaning. The coolers feature wider spacing of the cooling fins to reduce clogging.

### •Simple fluid level checks

»All important fluid levels can be easily checked from ground level. Sight gauges for coolant, oil and air cleaner let you check the level at a glance.

### •Modular radiator core system

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





### »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 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.



- 1 Engine coolant temperature gauge
- 2 Speedometer or tachometer
- 3 Hydraulic oil temperature gauge
- 4 Fuel gauge
- 5 Torque converter oil temperature gauge
- 6 Character display
- 7 Inspection and maintenance items pilot lamp

### »Maintenance accessibility

#### • 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.

#### • Engine compartment

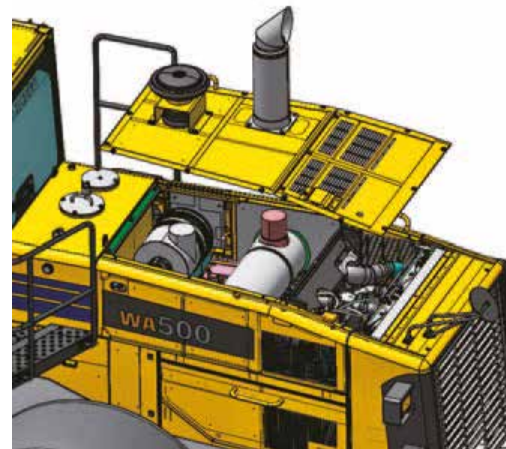
»With all filters collected into a centralized arrangement, the down time for servicing is reduced to a minimum. The engine air filter can be easily accessed from the platform while the transmission oil filters are externally mounted.

#### • Easy engine access

»For engine inspections, the bolt-on top cover can be removed in minutes providing the easy access to the engine compartment.

#### • External fluid drains

»All fluids can be drained through externally mounted valves for easy maintenance and reduced spillage.



# SAFETY



## »ROPS/FOPS cab

»The ROPS/FOPS Cab is standard for operator's safety. A wide pillar-less flat glass provides excellent front visibility, and a heated rear window provides excellent rear visibility in cold and freezing weather conditions.

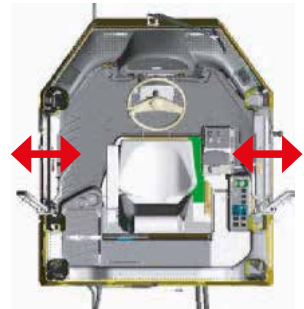
»ROPS (ISO 3471): Roll-over protective structure.

»FOPS (ISO 3449): Falling objects protective structure.



## »Left or right side cab entry

»The operator can get on and off the machine from either side of the vehicle. This design is convenient when getting on and off in a narrow jobsite or on uneven ground.



## »Safety features

### •Secondary steering

»If the steering pump is disabled, a secondary steering pump provides hydraulic flow.

### •Two independent lines brake system

»Added reliability is designed into the braking system by the use of two independent hydraulic circuits, providing hydraulic backup should one of the circuits fail.

### •Battery disconnect switch

»The battery disconnect switch is located in the right side battery box. This can be used to disconnect power when performing service work on the machine.

## »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	Komatsu SAA6D140E-5.
TYPE	Water-cooled, 4-cycle.
ASPIRATION	Turbocharged, aftercooled, cooled EGR.
NUMBER OF CYLINDERS	6.
BORE X STROKE	140 mm x 165 mm.
PISTON DISPLACEMENT	15.24 L.
PERFORMANCE:	
HORSEPOWER	
SAE J1995	Gross 266 kW 357 hp.
ISO 9249/SAE J1349	Net 263 kW 353 hp.
RATED RPM	1,900 min <sup>-1</sup> .
FAN DRIVE METHOD FOR RADIATOR COOLING	Hydraulic.
FUEL SYSTEM	Direct injection.
GOVERNOR	All-speed, electronic.
LUBRICATION SYSTEM:	
LUBRICATION METHOD	Gear pump, force-lubrication.
FILTER	Full-flow type.
AIR CLEANER	Dry type with double elements and dust evacuator, plus dust indicator.

\*Net horsepower at the maximum speed of radiator cooling fan is 248 kW 332 hp. U.S. EPA Tier 3 and EU Stage 3A emissions certified.



## TRANSMISSION

TORQUE CONVERTER:	
TYPE	3-element, 1-stage, 1-phase.
TRANSMISSION:	
TYPE	Full-powershift, countershaft type.
TRAVEL SPEED: KM/H	
MEASURED WITH 29.5/25 TIRES	

	1st	2nd	3rd	4th
Forward	7.7	12.5	22.3	34.9
Reverse	8.6	13.0	24.8	36.5



## AXLES AND FINAL DRIVES

DRIVE SYSTEM	Four-wheel drive.
FRONT	Fixed, full-floating.
REAR	Center-pin support, full-floating, 24° total oscillation.
REDUCTION GEAR	Spiral bevel gear.
DIFFERENTIAL GEAR	Conventional type.
FINAL REDUCTION GEAR	Planetary gear, single reduction.



## BRAKES

SERVICE BRAKES	Hydraulically actuated, wet multiple-disc brakes actuate on four wheels.
PARKING BRAKE	Wet multiple-disc brake.
SECONDARY BRAKE	Parking brake is commonly used.



## STEERING SYSTEM

TYPE	Articulated type, full-hydraulic power steering.
STEERING ANGLE	40° each direction.
MINIMUM TURNING RADIUS AT THE CENTER OF OUTSIDE TIRE	6,430 mm.



## HYDRAULIC SYSTEM

STEERING SYSTEM:	
HYDRAULIC PUMP	Piston pump.
CAPACITY	120 L/min at max. control flow.
RELIEF VALVE SETTING	24.5 MPa 250 kgf/cm <sup>2</sup> .
HYDRAULIC CYLINDERS:	
TYPE	Double - acting, piston type.
NUMBER OF CYLINDERS	2.
BORE X STROKE	100 mm x 486 mm.
LOADER CONTROL:	
HYDRAULIC PUMP	Piston pump.
CAPACITY	320 L/min at rated rpm.
RELIEF VALVE SETTING	34.3 MPa a 350 kgf/cm <sup>2</sup> .
HYDRAULIC CYLINDERS:	
TYPE	Double-acting, piston type.
NUMBER OF CYLINDERS - BORE X STROKE:	
LIFT CYLINDER	2 - 160 mm x 898 mm.
BUCKET CYLINDER	1 - 185 mm x 675 mm.
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	7.2 sec.
DUMP	1.7 sec.
LOWER (EMPTY)	4.2 sec.



## SERVICE REFILL CAPACITIES

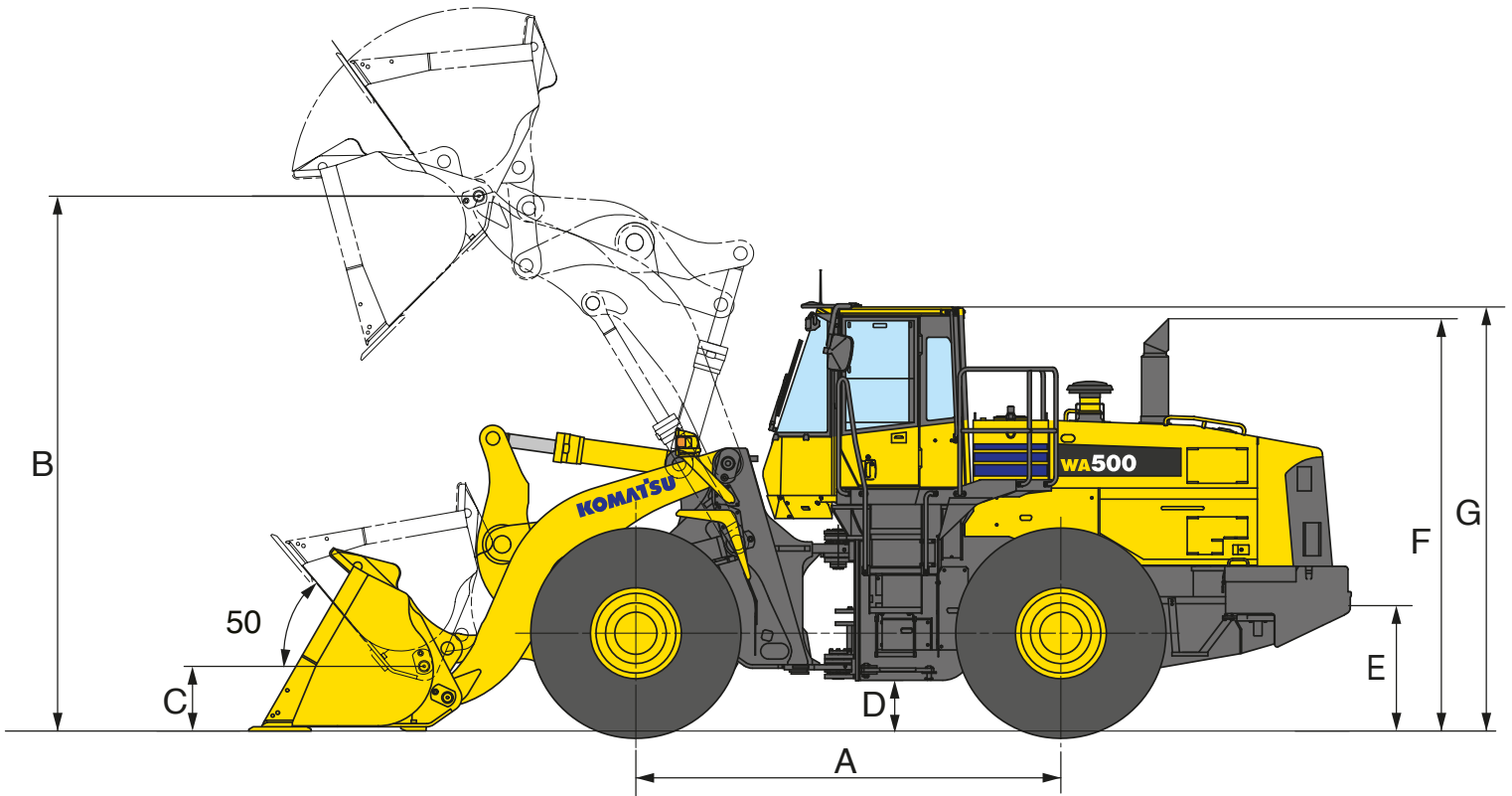
COOLING SYSTEM	120 L.
FUEL TANK	473 L.
ENGINE	45 L.
HYDRAULIC SYSTEM	337 L.
AXLE FRONT	87 L.
REAR	81 L.
TORQUE CONVERTER AND TRANSMISSION	83 L.





## DIMENSIONS

Measured with 29.5-25-22PR (L-3) tires

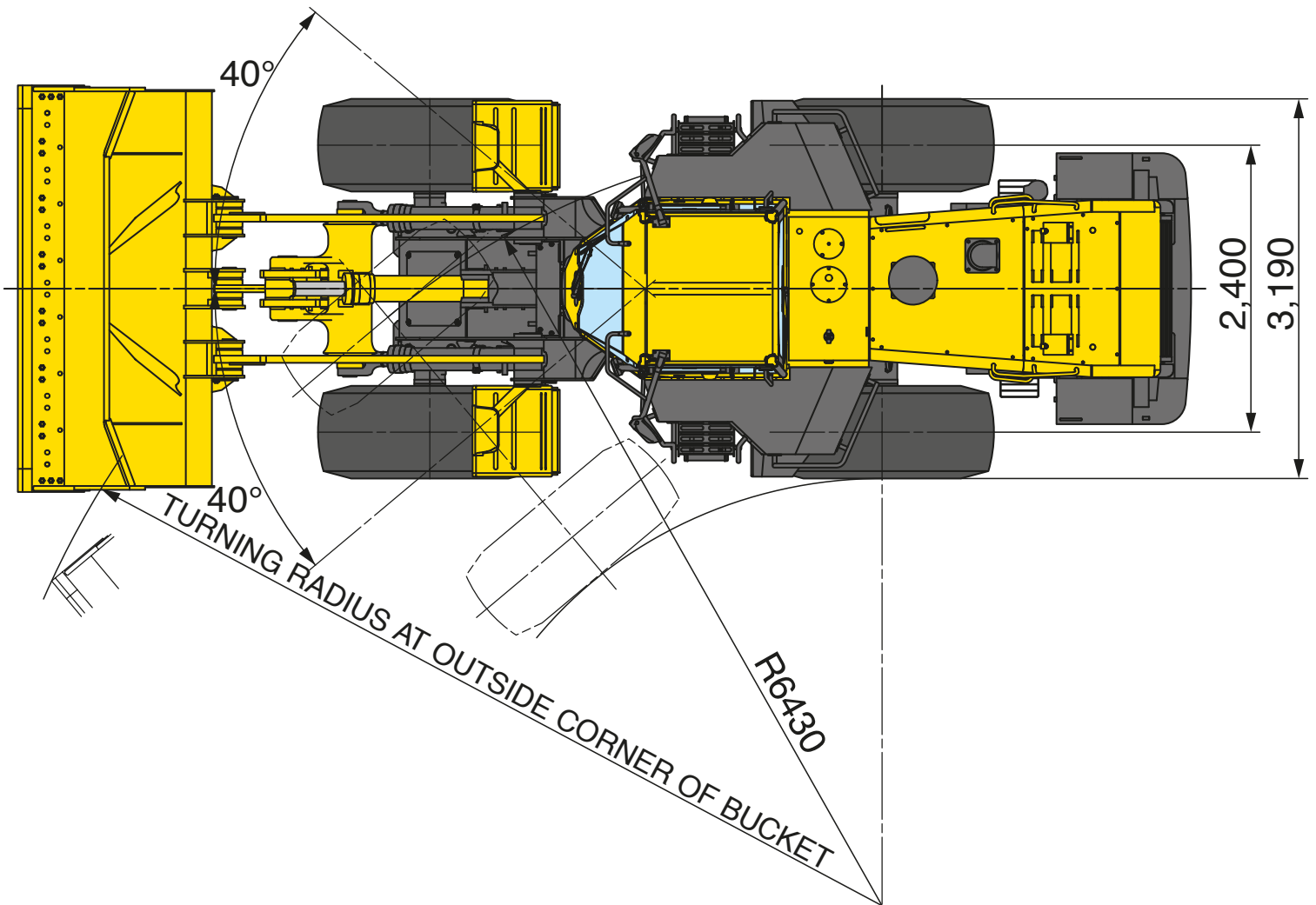


	Standard boom	High lift boom
Tread	2,400 mm	
Width over tires	3,190 mm	
A Wheelbase	3,780 mm	
B Hinge pin height, max. height	4,755 mm	5,165 mm
C Hinge pin height, carry position	575 mm	700 mm
D Ground clearance	450 mm	
E Hitch height	1,115 mm	
F Overall height, top of the stack	3,665 mm	
G Overall height, ROPS cab	3,785 mm	



## DIMENSIONS

Measured with 29.5-25-22PR (L-3) tires





## DIMENSIONS

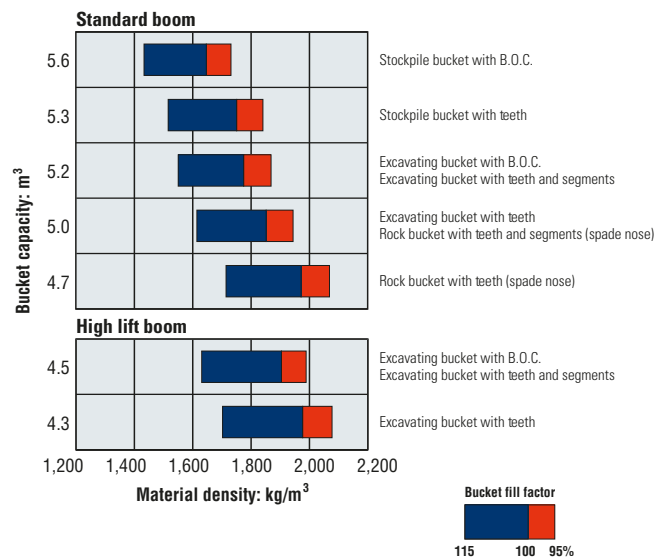
Measured with 29.5-25-22PR (L-3) tires

Standard boom	Stockpile bucket		Excavating bucket			Rock bucket (spade nose)		
	B.O.C.	Teeth	B.O.C.	Teeth and segments	Teeth	Teeth and segments	Teeth	
Bucket capacity:	heaped	5.6 m <sup>3</sup>	5.3 m <sup>3</sup>	5.2 m <sup>3</sup>	5.2 m <sup>3</sup>	5.0 m <sup>3</sup>	5.0 m <sup>3</sup>	4.7 m <sup>3</sup>
	struck	4.8 m <sup>3</sup>	4.5 m <sup>3</sup>	4.2 m <sup>3</sup>	4.2 m <sup>3</sup>	4.0 m <sup>3</sup>	4.2 m <sup>3</sup>	4.0 m <sup>3</sup>
Bucket width		3,400 mm	3,460 mm	3,400 mm	3,460 mm	3,460 mm	3,460 mm	3,460 mm
Bucket weight		3,110 kg	2,955 kg	3,055 kg	3,145 kg	2,900 kg	3,745 kg	3,490 kg
Dumping clearance, max. height and 45° dump angle*		3,295 mm	3,165 mm	3,395 mm	3,265 mm	3,265 mm	3,030 mm	3,030 mm
Reach at max. height and 45° dump angle*		1,500 mm	1,600 mm	1,400 mm	1,495 mm	1,495 mm	1,725 mm	1,725 mm
Reach at 2,130 mm clearance and 45° dump angle		2,300 mm	2,340 mm	2,215 mm	2,285 mm	2,285 mm	2,400 mm	2,400 mm
Reach with arm horizontal and bucket level		3,265 mm	3,425 mm	3,120 mm	3,280 mm	3,280 mm	3,610 mm	3,610 mm
Operating height (fully raised)		6,430 mm	6,430 mm	6,415 mm	6,415 mm	6,415 mm	6,630 mm	6,630 mm
Overall length		9,815 mm	9,975 mm	9,670 mm	9,790 mm	9,790 mm	10,155 mm	10,155 mm
Loader clearance circle (bucket at carry, outside corner of bucket)		15,300 mm	15,460 mm	15,220 mm	15,380 mm	15,380 mm	15,290 mm	15,290 mm
Digging depth:	0°	135 mm	155 mm	135 mm	155 mm	155 mm	165 mm	165 mm
	10°	435 mm	485 mm	410 mm	460 mm	460 mm	525 mm	525 mm
Static tipping load:	straight	24,440 kg	24,640 kg	24,590 kg	24,480 kg	24,795 kg	23,840 kg	24,160 kg
	40° full turn	21,120 kg	21,290 kg	21,250 kg	21,155 kg	21,425 kg	20,600 kg	20,875 kg
Breakout force		245 kN	262 kN	268 kN	274 kN	288 kN	233 kN	243 kN
Operating weight		33,430 kg	33,275 kg	33,375 kg	33,465 kg	33,220 kg	34,065 kg	33,810 kg

High lift boom	Excavating bucket			
	B.O.C.	Teeth and segments	Teeth	
Bucket capacity:	heaped	4.5 m <sup>3</sup>	4.5 m <sup>3</sup>	4.3 m <sup>3</sup>
	struck	3.7 m <sup>3</sup>	3.7 m <sup>3</sup>	3.5 m <sup>3</sup>
Bucket width		3,400 mm	3,460 mm	3,460 mm
Bucket weight		2,885 kg	2,975 kg	2,730 kg
Dumping clearance, max. height and 45° dump angle*		3,890 mm	3,760 mm	3,760 mm
Reach at max. height and 45° dump angle*		1,435 mm	1,530 mm	1,530 mm
Reach at 2,130 mm clearance and 45° dump angle		2,585 mm	2,645 mm	2,645 mm
Reach with arm horizontal and bucket level		3,385 mm	3,545 mm	3,545 mm
Operating height (fully raised)		6,715 mm	6,715 mm	6,715 mm
Overall length		10,030 mm	10,190 mm	10,190 mm
Loader clearance circle (bucket at carry, outside corner of bucket)		15,610 mm	15,780 mm	15,780 mm
Digging depth:	0°	210 mm	235 mm	235 mm
	10°	470 mm	520 mm	520 mm
Static tipping load:	straight	22,545 kg	22,430 kg	22,735 kg
	40° full turn	19,480 kg	19,380 kg	19,645 kg
Breakout force		286 kN	294 kN	310 kN
Operating weight		34,450 kg	34,540 kg	34,295 kg



## BUCKET SELECTION GUIDE



\* At the end of tooth or bolt on cutting edge (B.O.C.).

All dimensions, weights, and performance values based on ISO 7131 and 7546 standards. Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, air conditioner and operator. Machine stability and operating weight affected by counterweight, tire size, and other attachments.

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





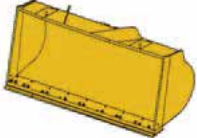
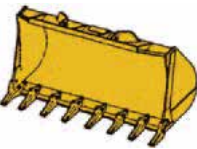
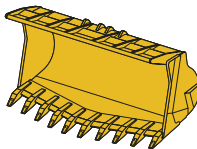
## WEIGHT / DIMENSIONS

Tires or attachments	Change in operating weight	Change in tipping load straight	Change in tipping load full turn	Width over tires	Ground clearance	Change in vertical dimensions
	kg	kg	kg	mm	mm	mm
29.5-25-22PR (L-3)	0	0	0	3,190	450	0
29.5-25-22PR (L-5)	1,335	1,135	995	3,190	450	0
29.5-R25 (L-3)	10	5	5	3,190	450	0
29.5-R25 (L-5)	1,530	1,295	1,135	3,190	450	0
Install additional counterweight	900	1,865	1,645			

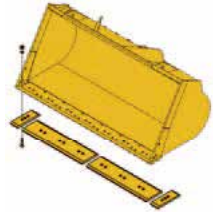
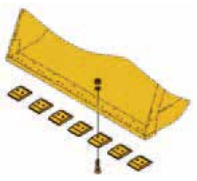
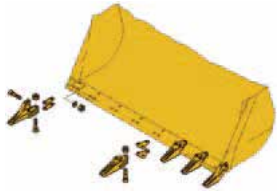
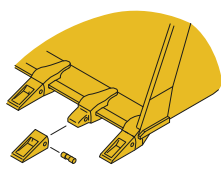
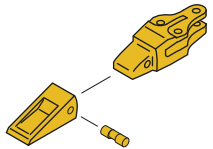


## BUCKETS & ATTACHMENTS

### »Buckets

Type	Feature	Image
<b>Stockpile bucket</b>	This bucket is used for loading stockpile products, such as crushed rock and construction materials.	
<b>Excavating bucket</b>	This bucket is used for excavating and loading blasted rock on rock crushing job sites, or for excavating natural ground. It has a flat-blade, straight cutting edge, and provides superior rigidity and wear resistance.	
<b>Rock bucket (spade nose)</b>	This bucket is used for excavating and loading blasted rock on rock crushing job sites. It has a pointed cutting edge, and provides superior rigidity and wear resistance.	

**»Cutting edges and teeth**

<b>Type</b>	<b>Feature</b>	<b>Image</b>	
<b>Cutting edges</b>	This edge is made for use in loading loose sand and soil, or for loading stockpiled materials. It is bolted to the leading edge of general purpose buckets and may be detached and reversed. The cutting edges are manufactured from especially heat treated, high tension steel, and since they are reversible, both edges can be used. This effectively doubles their working life.	<b>Bolt on cutting edges (B.O.C.)</b> 	<b>Segment edges (SE)</b> 
<b>Teeth (bolt on type)</b>	These teeth are suitable for loading or excavation of piles of earth or sand, blasted rock, and jobs in the field that involve digging into the side of slopes. The special heat treated, tensile strength steel alloy used in their production assures that they will wear and have a long service life.		
<b>Teeth (tip type)</b>	These teeth tips are attached to an adapter that is welded or bolted to the bucket edge. This means that an interchangeable part, the tooth tip, absorbs most of the wear and protects the actual bucket edge. They give excellent performance when used to handle blasted rock, piles of earth and similarly heavy duty tasks.	<b>Welded adapter</b> 	<b>Bolt on adapter</b> 



## STANDARD EQUIPMENT

### »ENGINE/POWER TRAIN:

- »Engine, Komatsu SAA6D140E-5 diesel.
- »Engine pre-cleaner with extension.
- »Service brakes, wet disc type.
- »Transmission, 4 forward and 4 reverse.

### »ELECTRICAL SYSTEM:

- »Alternator, 75 A/24 V.
- »Back-up alarm.
- »Back-up lamp.
- »Batteries, 2 x 12 V/170 Ah.
- »Directional signal.
- »Engine shut-off system, electric.
- »Starting motor, 24 V/11.0 kW.

### »HYDRAULIC SYSTEM:

- »2-spool valve for boom and bucket controls.

- »Hydraulic-driven fan with reverse rotation.
- »Lift cylinders and bucket cylinder.

### »CAB:

- »Air conditioner.
- »Auto shift transmission with mode select system.
- »Electronic pilot control fingertip control levers with automatic leveler and positioner.
- »Floor mat.
- »Main monitor panel with equipment management monitoring system.
- »Rearview mirror for cab.
- »Rear window washer and wiper.
- »ROPS/FOPS (ISO 3471/ISO 3449) cab.
- »Seat, air-suspension type with reclining.
- »Seat belt.

- »Steering wheel, tiltable, telescopic.
- »Sun visor.

### »WORK EQUIPMENT:

- »Counterweight.

### »OTHER EQUIPMENT:

- »Front fender.
- »Hard water area arrangement (corrosion resister).
- »Radiator mask, lattice type.
- »Rear under view mirror.
- »Tires (29.5-25-22PR, L-3 tubeless) and rims.
- »Vandalism protection kit.



## OPTIONAL EQUIPMENT

### »ENGINE/POWER TRAIN:

- »Brake cooling system.
- »Limited slip differential (F&R).

### »ELECTRICAL SYSTEM:

- »12 V converter.
- »Alternator, 90 A/24 V.
- »Batteries, 2 x 12 V/220 Ah.
- »Battery disconnect switch.

### »HYDRAULIC SYSTEM:

- »In-line filter.
- »Lock-up clutch torque converter.

### »CAB:

- »AM/FM radio.
- »AM/FM stereo radio cassette.
- »Cab heater and defroster.
- »FNR directional change switch.
- »Joystick steering.
- »Seat, air suspension with automatic weight adjustment.
- »Secondary steering (ISO 5010).

### »WORK EQUIPMENT:

- »Additional counterweight.
- »Bucket teeth (bolt on type).
- »Bucket teeth (tip type).

- »Cutting edge (bolt on type).
- »High lift boom.
- »Segmented edges.

### »OTHER EQUIPMENT:

- »Electronically controlled suspension system.
- »Fire extinguisher.
- »Fuel quick coupler.
- »Load meter, new type.
- »Ordinary spare parts.
- »Power train guard.
- »Tool kit.

**Optional equipment may not be available in your country.  
Please contact your Distributor for further information.**

# KOMATSU TOTAL SUPPORT



»To keep your machine available and minimize operation cost when you need it, Komatsu distributor is ready to provide a variety of supports before and after procuring the machine.

#### »Fleet recommendation

»Komatsu Distributor can study the customer's job site and provide the optimum fleet recommendation with detailed information to meet all of your application needs when you are considering to buy new machines or replace the existing ones from Komatsu.

#### »Product support

»Komatsu Distributor gives the proactive support and secures the quality of the machinery that will be delivered.

#### »Parts availability

»Komatsu Distributor is available for an emergency inquiry by the customers for genuine, quality guaranteed Komatsu parts.

#### »Technical support

»Komatsu product support service (technical support) is designed to help customer. Komatsu Distributor offers a variety of effective services, which shows Komatsu's dedication to the maintenance and support of Komatsu machine.

- Preventive maintenance (PM) clinic.
- Oil & wear analysis program.

#### »Repair & maintenance service

»Komatsu Distributor offers quality repair and maintenance service to the customer, utilizing and promoting Komatsu-developed programs.

#### »Komatsu Reman (remanufactured) components

»Komatsu Reman products are the result of the implementation of the Komatsu global policy which establishes and agrees to reduce the owning, operating and total life cycle costs (LCC) to Komatsu's customer through high quality, prompt delivery and competitive price in own remanufactured products (QDC).







# SATELLITE MONITORING SYSTEM

KOMTRAX is a revolutionary tracking system designed to save time and money. Nowadays, the equipment can be tracked anytime and anywhere. This valuable data, received via the KOMTRAX website, can be used to optimize planning of the movements and performance of the equipment.

## FEATURES

### » LOCATION

KOMTRAX uses a satellite positioning network to inform the location of the equipment.

### » GEOFENCE

In partnership with their Komatsu Distributor, owners can create virtual fences (Geo) to receive alerts when the equipment enters or leaves the designated range for operations.

### » SERVICE METER READING

Daily report of the equipment's working hours, which allows planning maintenance and replacement of components.

### » KOMTRAX OPERATION MAPS

In the operation maps you can check the times of the day when the equipment is in operation and if the workers are performing their duties in the stipulated times.

### » FUEL MEASUREMENT LEVEL

Shows the amount of fuel at the end of the working day.

### » WATER TEMPERATURE DAILY RECORD

Constant record of the increase of engine water temperature with a daily report at the end of the day.

### » CAUTIONS

If a light turns on in the cab of the equipment it indicates that a problem occurs. From the website of the application you can review the reason for the problem, the time it occurred and a record number will be generated.

### » ABNORMALITY CODES

Abnormality codes are transmitted to the Komatsu Distributor for troubleshooting before technicians arrive at the workplace. An email notification is also sent with the code of what happened.

### » NOTICE OF MAINTENANCE REPLACEMENT

The system generates alerts to inform that the equipment requires change of elements like filters and oil.

### » EQUIPMENT KEY HOURS

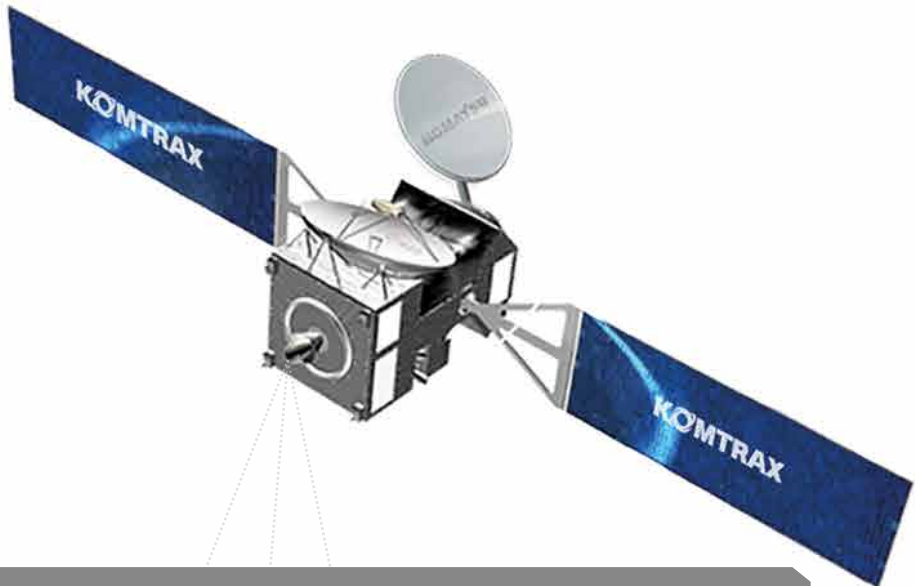
Detailed information on key equipment hours such as excavation, moving, digging, alleviating and elevation. This can help to monitor and compare equipment performance, in addition to working hours and idle times.

### » LOADING FREQUENCY

Information on the load factor of the equipment to know if it is performing a light, medium or heavy work.

### » ANTI-THEFT ENGINE LOCK

KOMTRAX has a system to lock and unlock the motor of the equipment, which will allow the operation only on preset days, hours and areas.



# KOMTRAX

## FEATURES

### » FUEL CONSUMPTION

On new Komatsu equipment, you can get the actual status of the fuel gallons consumed, besides an average of the fuel spent per hour during the period of operation.

### » MONTHLY AND ANNUAL DATA REPORTS

KOMTRAX generates summaries of all critical system data to help with analysis of fleet utilization, equipment scheduling, future equipment purchases, labor costs, etc.

**Check with your Komatsu dealer for the information available for your model and service availability in your country.**



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