

# SPECIFICATIONS



## ENGINE

Model ..... Komatsu SAA6D140E-6  
 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  
 Governor ..... All-speed, electronic  
 Horsepower  
 SAE J1995 ..... Gross 266 kW 357 HP  
 ISO 9249/SAE J1349\* ..... Net 263 kW 353 HP  
 Rated rpm ..... 1900 min<sup>-1</sup>  
 Fan drive method for radiator cooling ..... Hydraulic  
 Fuel system ..... Direct injection  
 Lubrication system:  
 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 250 kW 335 HP.

U.S. EPA Tier 4 Interim and EU Stage 3B emissions certified.



## TRANSMISSION

Torque converter:  
 Type ..... 3-element, 1-stage, 2-phase  
 Transmission:  
 Type ..... Automatic full-powershift, countershaft type  
 Travel speed: km/h  
 Measured with 29.5-R25 tires ( ) : Lock-up clutch ON

	1st	2nd	3rd	4th
Forward	7.5	12.9 (13.1)	22.2 (23.7)	35.5 (37.3)
Reverse	8.5	12.9 (13.0)	24.7 (26.6)	38.0 (38.0)

\* P Mode



## AXLES AND FINAL DRIVES

Drive system ..... Four-wheel drive  
 Front ..... Fixed, semi-floating  
 Rear ..... Center-pin support, semi-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 ..... 36° each direction (40° end stop)  
 Minimum turning radius at the center of outside tire ..... 7050 mm



## HYDRAULIC SYSTEM

Steering system:  
 Hydraulic pump ..... Piston pump  
 Capacity ..... 120 L/min  
 Relief valve setting ..... 24.5 MPa 250 kg/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  
 Relief valve setting ..... 34.3 MPa 350 kg/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 s  
 Dump ..... 1.7 s  
 Lower (Empty) ..... 4.2 s

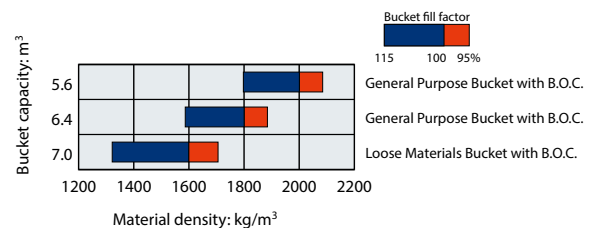


## SERVICE REFILL CAPACITIES

Cooling system ..... 133 L  
 Fuel tank ..... 473 L  
 Engine ..... 37 L  
 Hydraulic system ..... 337 L  
 Axle front ..... 95 L  
 rear ..... 95 L  
 Torque converter and transmission ..... 71 L



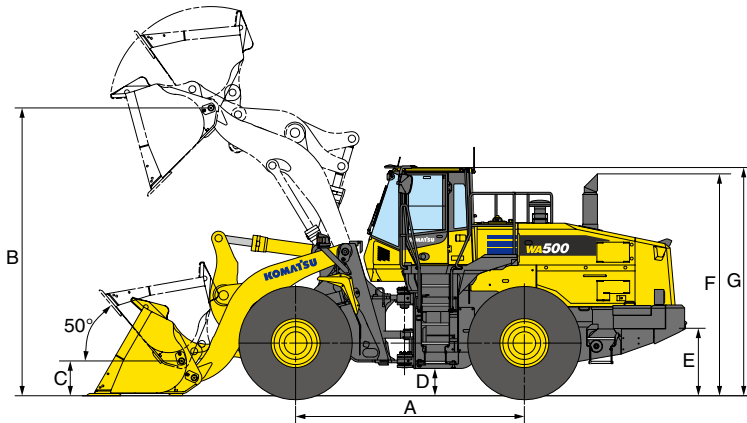
## BUCKET SELECTION GUIDE





## DIMENSIONS

Measured with 29.5-R25 LS VSDL tires, ROPS/FOPS cab



	Tread	2400 mm
	Width over tires	3190 mm
A	Wheelbase	3780 mm
B	Hinge pin height, max. height, standard boom	4755 mm
C	Hinge pin height, carry position	575 mm
D	Ground clearance	450 mm
E	Hitch height	1115 mm
F	Overall height, top of the stack	3665 mm
G	Overall height, ROPS cab	3785 mm

		Standard boom		
		General Purpose Bucket	General Purpose Bucket	Loose Material Bucket
		KGA Straight edge Bolt on Cutting Edge	KGA Straight edge Bolt on Cutting Edge	KGA Straight edge Bolt on Cutting Edge
Bucket capacity:	heaped	5.6 m <sup>3</sup>	6.4 m <sup>3</sup>	7.0 m <sup>3</sup>
	struck	4.9 m <sup>3</sup>	5.6 m <sup>3</sup>	6.1 m <sup>3</sup>
Bucket width		3400 mm	3400 mm	3510 mm
Bucket weight		3700 kg	3860 kg	4170 kg
Dumping clearance, max. height and 45° dump angle*		3315 mm	3235 mm	3185 mm
Reach at max. height and 45° dump angle*		1530 mm	1600 mm	1655 mm
Operating height (fully raised)		6595 mm	6760 mm	6820 mm
Overall length		9955 mm	10055 mm	10130 mm
Loader clearance circle diameter (bucket at carry, outside corner of bucket)		16610 mm	16665 mm	16795 mm
Digging depth:	0°	135 mm	135 mm	135 mm
	10°	440 mm	460 mm	470 mm
Static tipping load:	straight	28320 kg	28035 kg	27605 kg
	40° full turn	25160 kg	24885 kg	24465 kg
Breakout force		281 kN 28600 kg	267 kN 27200 kg	257 kN 26200 kg
Operating weight		37255 kg	37415 kg	37725 kg

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

All dimensions, weights, and performance values based on ISO 7131 and ISO 7546 standards.

Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, and operator. Machine stability and operating weight affected by counterweight, tire size, and other attachments.

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



## STANDARD EQUIPMENT

### ENGINE:

- Alternator, 24 V/90 A
- Batteries, 2 x 12 V/160 Ah
- Engine, Komatsu SAA6D140E-6
- KDPF (Diesel Particulate Filter)
- Starting motor, 24 V/11.0 kW

### CAB:

- 2 x DC12V electrical outlets
- Auto air conditioner
- AM/FM radio with AUX input jack
- Ashtray
- Cigarette lighter
- Color multi-monitor
- Cup holder
- Floor mat
- Front wiper (with washer and intermittent)
- Rear defroster (electric)
- Rear window washer and wiper
- ROPS/FOPS (ISO 3471/ISO 3449) cab
- Seat, air suspension with automatic weight adjustment
- Seat belt
- Space for lunch box
- Steering wheel, tiltable, telescopic
- Sun visor

### LIGHTING SYSTEM:

- Back-up lamps, LED
- Directional signal
- Hazard lamps
- Rear work lamps, LH and RH side
- Stop and tail lamps, LED and turn signal lamps

### SAFETY EQUIPMENT:

- Back-up alarm
- Engine shutdown secondary switch
- Hand rails for platform
- Horn, electric
- Parking brake
- Rear view monitoring system
- Service brakes, wet disc type
- 3x ESTOPS (1x Cab, 2x Rear)
- Secondary steering (ISO 5010)

### TIRES:

- 29.5R25 (BS L5 VSDL \*\*)

### OTHER:

- 2-spool valve for boom and bucket controls
- Auto idle shutdown
- Auto shift transmission with mode select system
- Lockable Battery Isolator

- Automatic Greasing system
- Counterweight, Logging
- Additional counterweight (900kg)
- Power train guard
- ECO Guidance
- Electronically Controlled Suspension system
- Equipment Management Monitoring system
- Engine shut-off system, electric
- Electronic Pilot Control fingertip control levers with automatic leveler and positioner
- Front fender
- Full fear fenders
- Fuel pre-filter with water separator
- Hydraulic-driven fan with reverse rotation
- KOMTRAX
- Lift cylinders and bucket cylinder
- Loader linkage with standard boom
- Lock-up clutch torque converter
- Radiator mask, lattice type
- Remote boom positioner
- Remote bucket positioner
- Transmission, 4 forward and 4 reverse
- Vandalism protection kit
- Wide Coolers (excl. Condensor)



## OPTIONAL EQUIPMENT

### SAFETY EQUIPMENT:

- Fire Suppression system
- Fire Extinguishers
- Broadband Reverse Alarm
- Lockable starter isolation

### OTHER:

- Limited slip differential (F&R) Factory order only
- Bluetooth CD Radio AM/FM
- UHF/CB Radio

- Wiggins Fast Fuel
- Jump start receptacle
- LED Worklights
- LED Worklights
- Scales

**Australia** - Ph: 1300 566 287 | Web: [www.komatsu.com.au](http://www.komatsu.com.au)

**New Zealand** - Ph: 0800 566 2878 | Web: [www.komatsu.co.nz](http://www.komatsu.co.nz)

**New Caledonia** - Ph: +687 43 53 06

**Email** - [info@komatsu.com.au](mailto:info@komatsu.com.au)

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