WA250-3
WHEEL LOADER

KOMATSU®

BUCKET CAPACITIES
2.5 – 3.5 yd³
1.9 – 2.7 m³

WA250-3

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WA250-3 Wheel Loader

SPECIFICATIONS

ENGINE

Model . . . . . Komatsu S6D102E-1
Type . . . . . Water-cooled, 4-cycle
Aspiration . . . . . Turbocharged
No. of cylinders 6
Bore x stroke . . . . . **4.0" x 4.7"** (102 mm x 130 mm)
Piston displacement . . . . . **359 in³** 5.90 ltr.
Governor . . . . . Mechanical, all-speed control
Horsepower Rating @ 2400 RPM (SAE J1349)

	HP	kW
Gross power	**135**	101
Net power	**127**	95

Meets 1997 EPA emissions regulations

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

TRANSMISSION

Torque converter . . . . . 3-element, single-stage, single-phase
Transmission . . . . . Full power shift, countershaft type

Travel Speed*	Forward		Reverse	
1st	**4.8 MPH**	7.8 km/h	**5.0 MPH**	8.1 km/h
2nd	**7.5 MPH**	12.0 km/h	**7.6 MPH**	12.3 km/h
3rd	**13.2 MPH**	21.2 km/h	**13.5 MPH**	21.8 km/h
4th	**21.4 MPH**	34.5 km/h	**21.7 MPH**	35.0 km/h

*Measured with 17.5/25 tires

AXLES & FINAL DRIVES

Drive system . . . . . Four-wheel drive
Front . . . . . Fixed, semi-floating
Rear . . . . . Center-pin support, semi-floating 30° total oscillation
Reduction gear . . . . . Spiral bevel gear
Differential gear . . . . . Torque proportioning type
Final reduction gear . . . . . Planetary gear, single reduction

BRAKES

Service brakes: Hydraulically-actuated, wet disc brakes actuate on four wheels.

Parking brake: Wet multiple disc brake on transmission output shaft.

STEERING SYSTEM

Type . . . . . Orbital type, full-hydraulic power steering independent of engine rpm
Steering angle . . . . . **40°** each direction
Minimum turning radius at the center of outside tire . . . . . **16'3"** 4950 mm

BUCKET CONTROLS

Control positions
Boom . . . . . Raise, hold, lower, and float
Bucket . . . . . Rollback, hold, and dump

HYDRAULIC SYSTEM

Capacity (discharge flow) @ engine rated RPM
Loader Pump . . . . . **46.2 gal/min** 175 ltr./min
Steering Pump . . . . . **34.9 gal/min** 132 ltr./min
(Gear Type Pumps)

Relief valve setting
Loader . . . . . **3,000 PSI** 210 kg/cm²
Steering . . . . . **2,700 PSI** 190 kg/cm²

Control valve
2-spool open center type

Hydraulic cylinders
Loader and Steering . . . . . Double-acting, piston type

Hydraulic cylinders	Number of cylinders	Bore		Stroke	
Boom	2	**4.7"**	120 mm	**28.1"**	714 mm
Bucket	1	**5.9"**	150 mm	**19.6"**	498 mm
Steering	2	**2.8"**	70 mm	**18.1"**	460 mm

Hydraulic cycle time (rated load in bucket)

Raise	5.8 sec.
Dump	1.7 sec.
Lower (empty)	3.0 sec.
Total cycle time	10.5 sec.

SERVICE REFILL CAPACITIES

Cooling system	**9.6 gal**	36.5 ltr.
Fuel tank	**48.6 gal**	184.0 ltr.
Engine	**5.1 gal**	19.5 ltr.
Hydraulic system	**16.9 gal**	64.0 ltr.
Axle (each front and rear)	**4.5 gal**	17.0 ltr.
Torque converter and transmission	**7.9 gal**	30.0 ltr.

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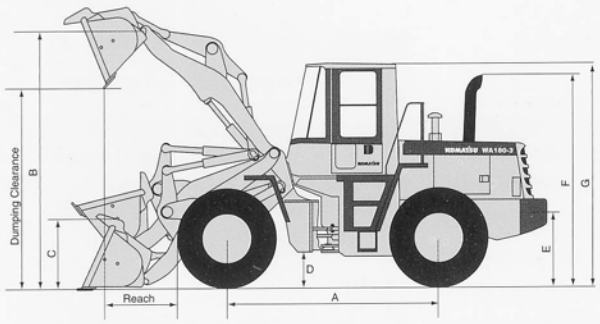

	Tires	17.5/25-12PR (L2)	
	Tread	**6'4"**	1930 mm
	Width over tires	**7'10"**	2375 mm
A	Wheelbase	**9'6"**	2900 mm
B	Hinge pin height, max. height	**12'1"**	3680 mm
C	Hinge pin height, carry position	**1'4"**	400 mm
D	Ground clearance	**1'4"**	395 mm
E	Hitch height	**3'0"**	910 mm
F	Overall height, top of the stack	**10'1"**	3075 mm
G	Overall height, ROPS cab	**10'6"**	3195 mm

Bucket Type		General Purpose with Bolt-on Cutting Edge		Excavating with Bolt-on Cutting Edge		Loose Material with Bolt-on Cutting Edge	
Bucket Capacity	SAE Rated	**2.75 yd³**	2.1 m³	**2.5 yd³**	1.9 m³	**3.5 yd³**	2.7 m³
	Struck	**2.35 yd³**	1.8 m³	**2.1 yd³**	1.6 m³	**3.0 yd³**	2.3 m³
Bucket Width		**8'10"**	2685 mm	**8'10"**	2685 mm	**8'10"**	2685 mm
Bucket Weight		**2,140 lb**	970 kg	**2,060 lb**	935 kg	**2,270 lb**	1030 kg
Static Tipping Load	Straight	**21,520 lb**	9760 kg	**21,440 lb**	9725 kg	**21,080 lb**	9560 kg
	40° full turn	**18,940 lb**	8590 kg	**18,870 lb**	8560 kg	**18,550 lb**	8415 kg
Dumping Clearance, max. height and 45° dump angle		**9'1"**	2760 mm	**9'2"**	2795 mm	**8'8"**	2630 mm
Reach at **7'** 2130 mm and 45° dump angle		**4'11"**	1490 mm	**4'10"**	1470 mm	**5'1"**	1550 mm
Reach at max. height and 45° dump angle		**3'5"**	1040 mm	**3'4"**	1005 mm	**3'10"**	1170 mm
Reach with arm horizontal and bucket level		**7'4"**	2240 mm	**7'2"**	2190 mm	**8'0"**	2425 mm
Operating Height	Fully raised	**16'2"**	4915 mm	**15'10"**	4815 mm	**16'7"**	5060 mm
Overall Length	Bucket ground	**22'9"**	6940 mm	**22'7"**	6890 mm	**23'4"**	7120 mm
	Bucket at carry	**22'9"**	6920 mm	**22'7"**	6885 mm	**23'1"**	7040 mm
Turning Radius*		**19'0"**	5780 mm	**18'11"**	5770 mm	**19'2"**	5830 mm
Digging Depth	0°	**6"**	140 mm	**6"**	140 mm	**6"**	135 mm
	10°	**1'1"**	325 mm	**1'1"**	315 mm	**1'2"**	350 mm
Breakout Force		**27,780 lb**	12600 kg	**29,540 lb**	13400 kg	**23,370 lb**	10600 kg
Operating Weight		**24,790 lb**	11243 kg	**24,715 lb**	11210 kg	**24,925 lb**	11306 kg

- All dimensions, weights, and performance values based on SAE J732c and J742b standards. Static tipping load and operating weight shown include 17.5/25-12PR (L2) tires, additional counterweight, lubricant, coolant, full fuel tank, ROPS cab, and operator. Machine stability and operating weight are affected by counterweight, tire size, and other attachments. Do not use tire ballast with additional counterweight. Apply the following weight changes to operating weight and static tipping load.

* Turning radius measured with bucket at carry position, outside corner of bucket.

Weight Changes

	Change in Operating Weight		Change in Tipping Load			
			Straight		Full Turn	
17.5/25-12PR (L3)	**88 lb**	40 kg	**66 lb**	30 kg	**55 lb**	25 kg
20.5/25-12PR (L2)	**727 lb**	330 kg	**551 lb**	250 kg	**485 lb**	220 kg
20.5/25-12PR (L3)	**926 lb**	420 kg	**727 lb**	330 kg	**639 lb**	290 kg
Install ROPS canopy (instead of cab)	**–530 lb**	–240 kg	**–460 lb**	–210 kg	**–410 lb**	–185 kg