WA900-3 KOMATSU



Operating Weight 226,810 lb 102 880 kg

Bucket Capacity 15.0-17.0 yd³

11.5-13.0 m³

Horsepower 853 hp 637 kW



WA900-3
SPECIFICATIONS

WHEEL LOADER



Engine

Model	Komatsu SAA12V140ZE-2	
Туре		
Aspiration		
No. of cylinders		
Bore x stroke	5.51 " x 6.5 " 140 mm x 165mm	
Piston displacement		
Governor		
Horsepower rating @ 2000 rpm		
Gross horsepower	897 hp 669 kW (SAEJ1349)	
•	910 PS 669 kW (DIN 6270)	
Flywheel horsepower	853 hp 637 kW (SAEJ1349)	
, .	865 PS 637 kW (DIN 6270)	
Meets 2000 EPA emissions regulations		
Fuel system	Direct injection	
Lubrication system	,	
MethodGear pump, pressurized lubrication		

Filter.....Full flow type

with service indicator in cab

Air cleanerTwo stage, exhaust aspirated, dry type



Transmission

Travel Speed*	Forward	Reverse
1st	0-4.3 mph 7.0 km/h	0-4.4 mph 7.1 km/h
2nd	0-7.6 mph 12.3 km/h	0-7.7 mph 12.4 km/h
3rd	0-17.4 mph 28.0 km/h	0-17.6 mph 28.3 km/h

*Measured with 45/64-45, 58PR (L5) tires



Axles & Final Drives

Four-wheel drive system. Full-floating front axle is fixed to the front frame. Center-pin-supported, full-floating rear axle with a large oscillation of $\pm 11^\circ$. A spiral bevel gear for reduction, a straight bevel gear for differential, and a planetary gear for final reduction.



Brakes

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

Parking brake: Spring applied, hydraulically released, dry disc type, on the front axle pinion shaft.



Steering System

Komatsu joystick/steering wheel control system featuring full hydraulic steering wheel plus joystick control. Steering wheel has full priority when used. Wide articulation angle of 40° to each side for a minimum turning radius of 36' 4" 11 065 mm at the outside corner of the bucket with teeth.



Operating Weight

Includes rated capacity of lubricant, coolant, full fuel tank, 45/65-45-58PR (L5) tires, **17.0 yd**³ 13.0 m³ spade nose bucket with teeth, ROPS canopy, steel cab, additional counterweight, operator and other standard equipment.



Boom & Bucket

Z-bar loader linkage of high-tensile-strength steel provides maximum rigidity, fast cycle times, and superior breakout force. Rap-out loader linkage design enables shock dumping to remove sticky materials. Sealed loader linkage pins with dust seals and cord rings extend maintenance intervals. The bucket is also constructed of high-tensile-strength steel. Bucket corner teeth increase penetrating force and minimize bucket wear.

Cycle Times	Standard Boom	High Lift Boom
Raise	11.2 sec	11.6 sec
Lower	4.8 sec	4.8 sec
Dump	2.0 sec	2.0 sec
Total	18.0 sec	18.4 sec



Bucket Controls

Proportional Pressure Control (PPC) system assures light-touch work equipment control. Little effort is required to operate the bucket and boom control levers, assuring smooth, responsive bucket/boom action. The bucket positioner and the boom kickout device facilitate repeated digging/loading operations.

Control positions:

Boom	Raise, hold, lower, and float
Bucket	Rollback, hold, and dump



Hydraulic System

Two variable capacity piston pumps for loader control, two variable capacity piston pumps for switch and two fixed displacement pumps for steering control. Dual hydraulic speed system makes it possible to reduce cycle times. Rimpull is maintained when entering the pile, so digging capacity is increased. Boom speed is increased during lift to minimize cycle time.

Pumps

Loader	Variable displacement piston pumps with		
	output of 107 gpm 405 liters/min @ 2000 rpm		
Switch	Variable displacement pumps with output		
	107 gpm 405 liters/min @ 2000 rpm		
Steering	Fixed displacement pumps with output of		
	81 gpm 307 liters/min @ 2000 rpm		
Pilot	Gear pump with output of 18 gpm		
	68 liters/min @ 2000 rpm		
Main relief valve setting			
Steering relief valve settin	g4550 psi 320 kg/cm ²		
Control valves: A double-spool-type control valve and			

Control valves: A double-spool-type control valve and steering valve with demand valve.

Hydraulic Cylinder	Number of cylinders	Bore	Stroke
Boom	2	10.2" 260 mm	53.9 " 1368 mm
Bucket	1	11.8" 300 mm	35.7 " 906 mm
Steering	2	6.3 " 160 mm	19.8" 503 mm



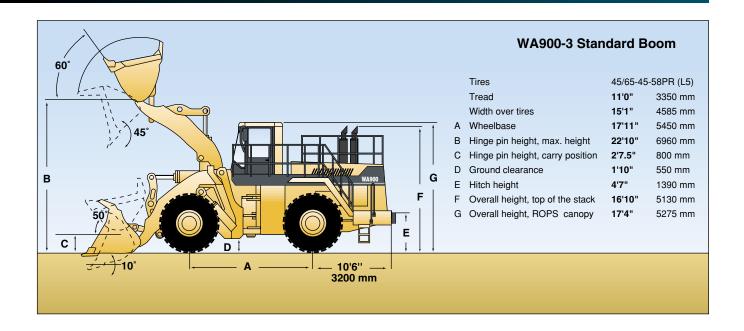
Service Refill Capacities

Cooling system	79.5 U.S. gal	319 L
Fuel tank	376.5 U.S. gal	1425 L
Crankcase*	34.9 U.S. gal	132 L
Hydraulic system	191.5 U.S. gal	725 L
Axle (each front and rear)	95.1 U.S. gal	360 L
Torque converter and transmission	37.0 U.S. gal	140L
Brake Oil	8.2 U.S. gal	31L
* includes lube oil filters		



Tires & Rims

Select proper tires based on job requirer	nents.
Standard rim size	36.00-45
Standard tire size	



		Standa	Standard Boom		High Lift Boom	
Bucket Type		17.0 yd ³ 13 m ³ Spade Nose Rock w/ teeth		15 yd ³ 11.5 m ³ Spade Nose Rock w/ teeth		
Bucket capacity	SAE rated	17.0 yd³	13.0 m ³	15.0 yd ³	11.5 m ³	
	Struck	14.4 yd ³	11.0 m ³	12.4 yd ³	9.5 m ³	
Bucket width		15' 10"	4815 mm	15' 10"	4815 mm	
Bucket width w/tire	protector	16' 7"	5045 mm	16' 7"	5045 mm	
Bucket weight		25,770 lb	11 690 kg	24,160 lb	10 960 kg	
*Static tipping loads	Straight Full turn (40°)	145,815 lb 128,310 lb	66 140 kg 58 200 kg	137,880 lb 121,320 lb	62 540 kg 55 030 kg	
Dumping clearance, r height and 45° dum		15' 6"	4715 mm	17' 6"	5330 mm	
Reach at max. height 45° dump angle	and	8' 0"	2450 mm	7' 4"	2230 mm	
Height to hinge pin (fully raised)	22' 10"	6960 mm	24' 5"	7445 mm	
Operating height (ful	ly raised)	31' 9"	9680 mm	32' 5"	9875 mm	
Overall length	Bucket on ground	47' 4"	14 430 mm	49' 0"	14 935 mm	
	Bucket at carry	46' 2"	14 065 mm	48' 6"	14 780 mm	
Turning radius outsid	e corner of bucket	36' 4"	11 065 mm	36' 7"	11 150 mm	
Digging depth	0°	0' 2"	50 mm	0' 2"	50 mm	
	10°	1' 11"	585 mm	1' 10"	550 mm	
Breakout force		149,690 lb	665 kN	158,070 lb	703 kN	
*Operating weight		226,810 lb	102 880 kg	227,760 lb	103 310 kg	

Static tipping load and operating weight shown include lubricants, coolant, full fuel tank, ROPS cab (option), front and rear fenders, additional counter weight, 45/65-45-58PR (L5) tubeless tires and operator. Machine stability and operating weight are affected by counterweight, tire size and other attachments. Turning radius measured at outside corner of bucket with bucket at carry position. All dimensions, weights and performance values based on SAE J732c and J742b standards.

Note: * Engineering estimated weights. WA900-3 will not weigh less than WA900-1 machine.





WA900-3

Standard Equipment

- · Additional work lights: 2F, 2S, 2R, 1R step with timer
- Alternator 75 ampere (24 V)
- Air cleaner, 2 stage dry type with auto dust evacuator
- · Air cleaner extension
- · Air conditioner with heater/defroster/pressurizer
- · Auxiliary steering, ground driven with indicator
- · Axles, full floating type w/conventional differentials
- · Back-up alarm and light
- Batteries, 4 x 12 V/200 A/h
- · Battery auto-disconnect switch
- · Boom kickout, automatic
- · Brakes, parking dry disc
- Brakes, service, wet multiple-disc axle by axle
- · Bucket leveler, automatic
- · Cab, steel, (RH & LH entrance) includes: windshield washer and wiper (front and rear), inside-mounted mirror, two cabmounted working lights, dome light, floormat and cigarette lighter/ashtray
- Counterweight
- · Electric horn
- Engine, KOMATSU SAA12V140ZE-2 turbocharged and aftercooled Direct injection diesel
- · Engine shut down switch, ground level
- Exhaust pipe with sound suppression, glasswool

- · Fan. cooling blower
- Fenders, front (LH & RH)
- High pressure in-line hydraulic filters
- · Main and maintenance monitor electronic display
- · Lift cylinders and bucket cylinder
- Lights: stop and tail lights, turn signals with hazard switch (2F, 2R), work lights (2F, 2R)
- · Lunch box holder
- · PPC hydraulic controls
- · Power train guard
- · Power windows
- Radiator, staggered core type
- Radio, AM/FM with cassette stereo
- · Rearview mirror, inside cab mount/outside mount (LH & RH)
- · Rear steps, (LH) with partial fenders
- · ROPS cab
- Seatbelt, retractable 3"
- · Seat, air-suspension, reclining, with arm rests (fabric)
- Starting motor, 24V 1 X 11 kW, direct electric
- · Steering, full hydraulic power, steering wheel tiltable
- · Stick-Steer, single lever controlled steering system
- Sun visor
- Tow hitch
- Transmission, planetary, F3-R3
- · Transmission control, electric w/ kickdown switch
- · Vandalism protection

Optional Equipment

- · Auto grease system, Lincoln
- · Automatic transmission
- Bucket
- 11.5cu m3/15cu yd3 for high lift boom 12.3cu m3/16cu yd3 for high lift boom (light material 2850 lb/yd3, 1700 kg/m3)
- 13cu m3/17cu yd3 for std. boom
- · High lift arrangement
- Boom
- Boom cylinders
- Bucket cylinders
- Counterweight
- Rims for 45/65-45 tires

Tires:

- ♦ 45/65-45-58PR L5
- 45/65-R45 46PR XLDD2 (Michelin)
- · Wiggins fast fuel fill

Work Equipment

- 17.0 vd³ (13 m³) spade nose heavyduty rock bucket
- 15.0 yd3 (11.5 m3) spade nose heavyduty rock bucket (for high lift)
- · Komatsu Buckets with Hensley Lips and GET (Bladesaver® II system)

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