

KOMATSU®

WA900-8

Tier 4 Final Engine

WHEEL LOADER

WA900



Photos may include optional equipment.

HORSEPOWER

Gross: 672 kW 900 HP @ 2050 rpm
Net: 671 kW 899 HP @ 2050 rpm

OPERATING WEIGHT

256,618 lb
116400 kg

BUCKET CAPACITY

15.0 – 19.0 yd³
11.5 – 14.5 m³

WALK-AROUND

DESIGNED FOR INCREASED PRODUCTIVITY AND OPERATOR COMFORT

With the addition of a Modulation Clutch, Throttle Lock, and Closed Center Load Sensing Hydraulic System (CLSS), the WA900-8 can load more trucks per shift. A reengineered operators cab with improved access, visibility, and features to enhance productivity keeps operators comfortable throughout long shifts.

WA900-8



Photos may include optional equipment.

HORSEPOWER

Gross: 672 kW 900 HP @ 2050 rpm
Net: 671 kW 899 HP @ 2050 rpm

OPERATING WEIGHT

256,618 lb
116,400 kg

BUCKET CAPACITY

15.0 – 19.0 yd³
11.5 – 14.5 m³



New Productivity and Efficiency Features

- Variable Traction Control System optimizes rim pull for all ground conditions, minimizing tire slippage and reducing maintenance costs
- Modulation Clutch System gives operators precise control of rim pull, allows for fast work equipment speeds and a smooth approach when loading trucks
- Closed Center Load Sensing Hydraulic System (CLSS) keeps hydraulic oil cool, work equipment speed quick, and provides better fuel economy
- Throttle Lock improves cycle times by maintaining high work-equipment performance and saves fuel with auto-deceleration
- Automatic dig, semi-automatic approach, and automatic dump systems can be enabled to reduce operator fatigue in v-cycle applications
- Komatsu SmartLoader Logic helps reduce fuel consumption without compromising production
- All new Komatsu bucket design, with modified profile to maximize bucket fill factor and increase productivity

Reliability and Durability

- Increased overhaul intervals on transmissions and axles reduce maintenance cost and Total Cost of Ownership (TCO)
- New loader linkage design with increased arm plate width for maximum structural durability
- Standard brake cooling and redesigned wet, multi-disk service brakes extend service intervals and reduce maintenance hours
- Standard engine pre-lubrication system ensures full lubrication upon startup

New Machine Technology

- Advanced machine monitoring system with onboard diagnostics, no laptop required
- KomVision with radar obstacle detection provides a bird's eye view utilizing 6-camera system and dedicated display (optional)
- KOMTRAX Plus, for immediate remote diagnostics of machine health and performance
- Energy saving operation ecology guidance provides operator with real time recommendations to improve operational efficiency and fuel economy

New Operator Focused Environment

- Large, pillarless cab with trainer seat allows full view of working area
- 45 degree power staircase (optional) and 45 degree walkways on left and right side of machine for convenient access to the cab
- Catwalks and handrails on the counterweight and in front of the cab allow for easy maintenance
- Work equipment shock reduction control (4 settings – off, low, middle, high)
- Higher capacity air suspension seat (heated and ventilated)
- LED external and internal lighting
- Anchored tie off points (ISO 14567) located around the machine provide technicians locations to attach service lanyards
- Electronically Controlled Suspension System (ECSS) provides a smooth ride for better travel performance, reducing operator fatigue and material spillage during operation

SPECIFICATIONS



ENGINE

Model.....Komatsu SAA12V140E-7*
 Type.....Water-cooled, 4-cycle
 Aspiration.....Turbo-charged, after-cooled, cooled EGR
 Number of cylinders.....12
 Bore.....140 mm **5.51"**
 Stroke.....165 mm **6.50"**
 Piston displacement.....30.48 ltr **1860 in³**
 Governor.....All-speed, electronic
 Horsepower:
 SAE J1995.....Gross 672 kW **900 HP**
 ISO 9249 / SAE J1349.....Net 671 kW **899 HP**
 Rated rpm.....2050 rpm
 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

*EPA Tier 4 Final emissions certified



TRANSMISSION

Torque converter.....Three-elements, one-stage, one-phase
 Transmission.....Full-powershift, planetary type

Travel speed	Forward*	Reverse*
1st	7.6 km/h 4.7 mph	7.9 km/h 4.9 mph
2nd	11.9 km/h 7.4 mph	12.1 km/h 7.5 mph
3rd	23.3 km/h 14.5 mph	24.1 km/h 15.0 mph

*P-mode Measured with 45/65-R45 tires



AXLES AND FINAL DRIVES

Drive system.....Four-wheel drive
 Front.....Fixed, full-floating
 Rear.....Center-pin support, full-floating, 20° 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



STEERING SYSTEM

Type.....Articulated type, fully-hydraulic power steering
 Steering angle.....40° each direction
 Minimum turning radius at the center of outside tire.....9880 mm **32' 5"**



HYDRAULIC SYSTEM

Steering system:
 Hydraulic pump.....Piston type
 Capacity.....2 x 220 ltr/min **58.1 U.S. gal/min** at rated rpm
 Relief valve setting.....31.4 MPa 320 kgf/cm² **4,551 psi**
 Hydraulic cylinders:
 Type.....Double-acting, piston type
 Number of cylinders.....2
 Bore x stroke.....160 mm x 576 mm **6.3" x 22.7"**

Work Equipment control:
 Hydraulic pump.....Piston pump
 Capacity.....4 x 230 ltr/min **60.8 U.S. gal/min** at rated rpm
 Relief valve setting.....34.3 MPa 350 kgf/cm² **4,980 psi**
 Hydraulic cylinders:
 Type.....Double-acting, piston type
 Number of cylinders—bore x stroke:
 Lift cylinder.....2 - 260 mm x 1495 mm **10.2" x 58.9"**
 Bucket cylinder.....1 - 300 mm x 995 mm **11.8" x 39.2"**
 Control valve.....Spool type
 Control positions:
 Boom.....Raise, hold, lower, and float
 Bucket.....Tilt-back, hold, and dump
 Hydraulic cycle time (rated load in bucket)
 Raise.....10.1 s
 Dump.....2.9 s
 Lower (Empty).....4.8 s

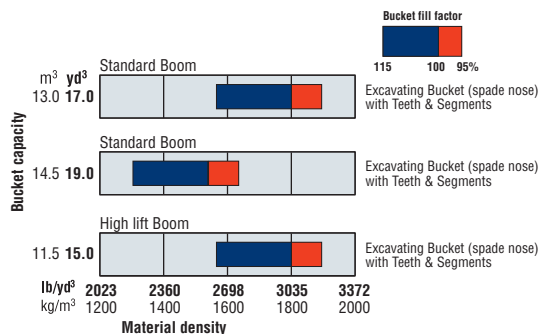


SERVICE REFILL CAPACITIES

Cooling system.....370 ltr **97.7 U.S. gal**
 Fuel tank.....1555 ltr **410.8 U.S. gal**
 Engine.....120 ltr **31.7 U.S. gal**
 Hydraulic system.....1020 ltr **269.5 U.S. gal**
 Axle front.....370 ltr **97.7 U.S. gal**
 rear.....370 ltr **97.7 U.S. gal**
 Torque converter and transmission.....180 ltr **47.6 U.S. gal**



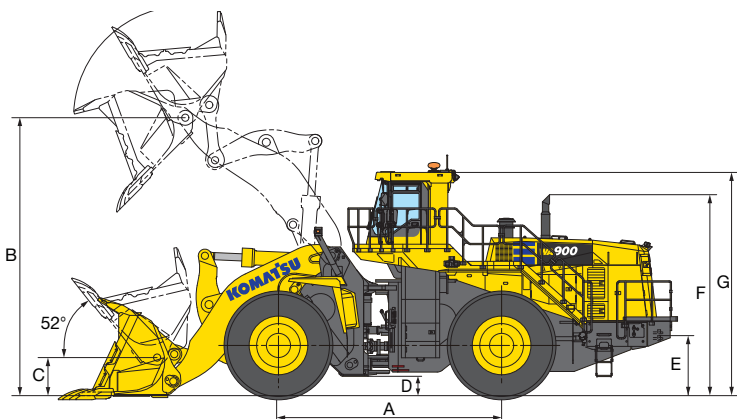
BUCKET SELECTION GUIDE





DIMENSIONS

Measured with 45/65 R45 (L-5) tires, ROPS/FOPS (ISO 3471/ISO 3449) cab



Tread width (center of tread to center of tread)	3350 mm	11'0"
Width over tires	4585 mm	15'1"
A Wheelbase	5600 mm	18'4"
B Hinge pin height,	Standard boom	6975 mm 22'11"
max. height	High lift boom	7485 mm 24'7"
C Hinge pin height,	Standard boom	955 mm 3'2"
carry position	High lift boom	1050 mm 3'5"
D Ground clearance	485 mm	1'7"
E Hitch height	1510 mm	4'11"
F Overall height, top of the stack	5040 mm	16' 6"
G Overall height, ROPS cab	5600 mm	18' 4"

	Standard Boom	High Lift Boom
	Excavating Bucket	Excavating Bucket
	Spade nose Teeth and Segments	Spade nose Teeth and Segments
Bucket capacity: heaped	13.0 m ³ 17.0 yd³	11.5 m ³ 15.0 yd³
struck	11.0 m ³ 14.4 yd³	9.9 m ³ 12.9 yd³
Bucket width	4935 mm 16'2"	4935 mm 16'2"
Bucket weight	13115 kg 28,914 lb	12215 kg 26,930 lb
Dumping clearance, max. height and 45° dump angle *1	4610 mm 15'1"	5225 mm 17'2"
Reach at max. height and 45° dump angle *1	2685 mm 8'10"	2555 mm 8'6"
Reach at 2130 mm 7' clearance and 45° dump angle	3970 mm 13'0"	4240 mm 13'11"
Reach with arm horizontal and bucket level *1	5245 mm 17'2"	5445 mm 17'10"
Operating height (fully raised)	9780 mm 32'1"	10155 mm 33'4"
Overall length (bucket on ground)	15355 mm 50'5"	15610 mm 51'3"
Loader clearance circle (bucket at carry, outside corner of bucket)	23340 mm 76'7"	23640 mm 77'7"
Digging depth: *2 0°	225 mm 9"	225 mm 9"
10°	660 mm 2'2"	630 mm 2'1"
Static tipping load: straight	71840 kg 158,380 lb	65620 kg 144,667 lb
40° full turn	63610 kg 140,236 lb	58100 kg 128,089 lb
Breakout force	71900 kgf 158,511 lb	77000 kgf 169,754 lb
Operating weight	116400 kg 256,618 lb	116720 kg 257,324 lb

*1 At the end of tooth. *2 At the end of segment edges.

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

Static tipping load, operating weight and overall length shown include lubricant, coolant, full fuel tank, ROPS (ISO 3471) cab and operator. Machine stability and operating weight affected by counterweight, tire size, and other attachments.



STANDARD EQUIPMENT

ENGINE

- 2 x KDPF/KDOC
- Air cleaner, double element with dust indicator
- Alternator, 24 V/140 A
- Batteries, large capacity, 4 x 12 V/160 Ah
- Engine, Komatsu SAA12V140E-7
- Engine pre-lubrication
- Starting motor, 2 x 24 V/11 kW

CAB

- 2 x DC12V electrical outlets
- Advanced joystick steering system
- Auto air conditioner
- AM/FM radio with BlueTooth
- Ashtray
- Cigarette lighter
- Cup holder
- Electronic Pilot Control fingertip control
- Floor mat
- Front wiper (with washer and intermittent)
- Heated mirrors (for cold district)
- Multi-color monitor
- Operator seat with 3-point seat belt, reclining, air suspension, heated, ventilated
- Rear defroster (electric)
- Rear wiper (with washer and intermittent)
- Room mirror
- Room lamps, LED
- ROPS/FOPS (ISO 3471/ISO 3449)
- Space for lunch box
- Spot lamp, LED
- Steel cab included front, rear and side wiper with windshield washer
- Sun shades (front and rear), retractable type
- Sun visor (front)
- Trainer seat with 2-point seat belt

LIGHTING SYSTEM

- Access stair lamp, LH side, LED
- Beacon lamp
- Cab mounted work lamps, LED
- Engine bay lamp, LED
- Front work lamps, LED
- Rear work lamps, LED
- Side work lamps, LED
- Stop and tail lamps, LED
- Turn signal lamps, LED

SAFETY EQUIPMENT

- 2 x Emergency stop switches (ground level)
- Anchorage points (ISO 14567)
- Back-up alarm
- Engine shutdown secondary switch (in cab)
- Handrails for platform
- Horn, electric
- Machine lock out system
- Parking brake, electric
- Rearview monitoring system
- Secondary brake
- Secondary steering (ISO 5010)
- Service brakes, wet disc type

OTHER

- 2-way engine power mode
- 3rd gear prohibition and speed limit control
- Automatic digging system
- Auto greasing system
- Automatic shift transmission
- Battery disconnect switch
- Boom positioner with kick-out
- Brake cooling system
- Brake oil thermometer display

- Bucket positioner
- Circuit breaker
- Counterweight
- Ecology guidance, Ecology gauge
- Electronically controlled suspension system
- Engine RPM set system with auto deceleration
- Engine starter disconnect switch
- Front fenders
- Fuel pre-filter with water separator
- Ground level service center for auto greasing system, oil samples, and machine fluid ports
- Hydraulic-driven fan with reverse rotation
- Inline filters, steering and hydraulic
- Komatsu auto idle shutdown
- Komatsu SmartLoader Logic
- KOMTRAX Plus®
- KOWA sampling port
- Lift cylinders and bucket cylinder
- Load meter system
- Modulation clutch
- Modular radiator core
- Power train guard
- Quick coupling for fuel tank
- Radiator mask, swing out
- Rear access stair with handrail
- Rims for 45/65R (L-5) tires
- Semi-auto approach & dump system
- Starter receptacle
- Tire slip control
- Tool kit
- Wall digging protection control
- Work equipment shock reduction control



OPTIONAL EQUIPMENT

- 15.0 yd³ bucket
- 17.0 yd³ bucket
- 19.0 yd³ bucket
- 45/65R45 (L-5) tubeless tires

- 45 deg Power Staircase
- Cold weather field kit (electric heaters for hydraulic oil, transmission oil, engine oil, and coolant)

- High lift boom
- KomVision (with radar)

AESS935-00

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AD04(Electronic View Only)

04/19 (EV-1)

KOMATSU®

Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.

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