

# WA430-6 WHEEL LOADER

## SPECIFICATIONS



### ENGINE

Model ..... Komatsu SAA6D114E-3  
 Type ..... Water-cooled, 4-cycle  
 Aspiration ..... Turbocharged, aftercooled  
 Number of cylinders ..... 6  
 Bore x stroke ..... 114 mm x 135 mm **4.49" x 5.32"**  
 Piston displacement ..... 8.27 ltr **505 in<sup>3</sup>**  
 Governor ..... All-speed, electronic  
 Horsepower  
   SAE J1995 ..... Gross 173 kW **232 HP**  
   ISO 9249/SAE J1349 ..... Net 172 kW **231 HP**  
   Hydraulic fan at maximum speed ..... Net 163 kW **218 HP**  
   Rated rpm ..... 2100 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



### TRANSMISSION

Torque converter:  
 Type ..... 3-element, single-stage, single-phase  
 Transmission:  
 Type ..... Automatic full-powershift, countershaft type  
 Travel speed: km/h mph  
 Measured with 23.5-25 tires

	1st		2nd		3rd		4th	
Forward	7.0	4.4	12.3	7.6	21.6	13.4	37.2	23.1
Reverse	7.6	4.7	12.9	8.0	23.0	14.3	37.2	23.1



### AXLES AND FINAL DRIVES

Drive system ..... Four-wheel drive  
 Front ..... Fixed, semi-floating  
 Rear ..... Center-pin support, semi-floating, 18° total oscillation  
 Reduction gear ..... Spiral bevel gear  
 Differential gear ..... Conventional type  
 Final reduction gear ..... Planetary gear, single reduction



### BRAKES

Service brakes ..... Hydraulically actuated, wet disc brakes actuate on four wheels  
 Parking brake ..... Wet disc brake  
 Emergency 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 ..... 6335 mm **20'9"**



### HYDRAULIC SYSTEM

Steering system:  
 Hydraulic pump ..... Piston pump  
 Capacity ..... 137 ltr/min **36.2 U.S. gal/min** at rated rpm  
 Relief valve setting ..... 24.5 MPa 250 kgf/cm<sup>2</sup> **3,555 psi**  
 Hydraulic cylinders:  
 Type ..... Double-acting, piston type  
 Number of cylinders ..... 2  
 Bore x stroke ..... 75 mm x 442 mm **3.0" x 17.4"**

Loader control:  
 Hydraulic pump ..... Piston pump  
 Capacity ..... 205 ltr/min **54.2 U.S. gal/min** at rated rpm  
 Relief valve setting ..... 31.4 MPa 320 kgf/cm<sup>2</sup> **4,550 psi**  
 Hydraulic cylinders:  
 Type ..... Double-acting, piston type  
 Number of cylinders—bore x stroke:  
   Boom cylinder ..... 2- 130 mm x 776 mm **5.1" x 30.6"**  
   Bucket cylinder ..... 1- 160 mm x 535 mm **6.3" x 21.1"**  
 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 ..... 6.1 sec  
   Dump ..... 2.0 sec  
   Lower (Empty) ..... 3.3 sec

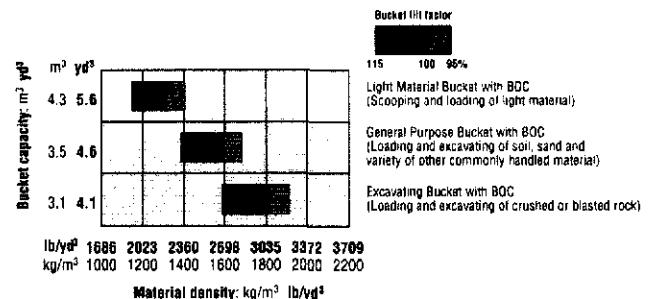


### SERVICE REFILL CAPACITIES

Cooling system ..... 32 ltr **8.4 U.S. gal**  
 Fuel tank ..... 325 ltr **85.9 U.S. gal**  
 Engine ..... 30 ltr **7.9 U.S. gal**  
 Hydraulic system ..... 139 ltr **36.7 U.S. gal**  
 Axle front ..... 49 ltr **12.9 U.S. gal**  
   rear ..... 40 ltr **10.6 U.S. gal**  
 Torque converter and transmission ..... 54 ltr **14.3 U.S. gal**



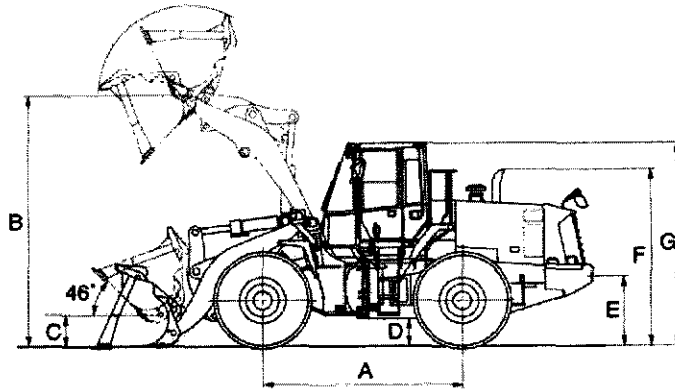
### BUCKET SELECTION GUIDE





**DIMENSIONS**

Measured with 23.5 R25 (L3) tires, ROPS/FOPS Level 2 cab



Tread	2200 mm	7'3"
Width over tires	2820 mm	9'3"
A Wheelbase	3300 mm	10'10"
B Hinge pin height max. height	Standard Boom	4165 mm 13'8"
	High Lift Boom	4635 mm 15'3"
C Hinge pin height carry position	Standard Boom	520 mm 1'8"
	High Lift Boom	695 mm 2'3"
D Ground clearance	455 mm	1'6"
E Hitch height	1150 mm	3'9"
F Overall height, top of the stack	2940 mm	9'8"
G Overall height, ROPS cab	3390 mm	11'1"

	General Purpose Bucket	Excavating Bucket	Light Material Bucket	High Lift Boom
	Bolt-on Cutting Edges	Bolt-on Cutting Edges	Bolt-on Cutting Edges	Bolt-on Cutting Edges
Bucket capacity: heaped	3.5 m <sup>3</sup> 4.6 yd <sup>3</sup>	3.1 m <sup>3</sup> 4.1 yd <sup>3</sup>	4.3 m <sup>3</sup> 5.6 yd <sup>3</sup>	3.1 m <sup>3</sup> 4.1 yd <sup>3</sup>
struck	3.0 m <sup>3</sup> 3.9 yd <sup>3</sup>	2.6 m <sup>3</sup> 3.4 yd <sup>3</sup>	3.7 m <sup>3</sup> 4.8 yd <sup>3</sup>	2.6 m <sup>3</sup> 3.4 yd <sup>3</sup>
Bucket width	2905 mm 9'6"	2905 mm 9'6"	2905 mm 9'6"	2905 mm 9'6"
Bucket weight	1630 kg 3,593 lb	1720 kg 3,792 lb	1800 kg 3,968 lb	1720 kg 3,792 lb
Dumping clearance, max. height and 45° dump angle*	3015 mm 9'11"	3090 mm 10'2"	2890 mm 9'6"	3585 mm 11'9"
Reach at max. height and 45° dump angle*	1195 mm 3'11"	1120 mm 3'8"	1320 mm 4'4"	1220 mm 4'0"
Reach at 2130 mm (7') clearance and 45° dump angle	1840 mm 6'0"	1795 mm 5'11"	1900 mm 6'3"	2265 mm 7'5"
Reach with arm horizontal and bucket level	2690 mm 8'10"	2580 mm 8'6"	2865 mm 9'5"	3025 mm 9'11"
Operating height (fully raised)	5710 mm 18'9"	5590 mm 18'4"	5895 mm 19'4"	6080 mm 19'11"
Overall length	8460 mm 27'9"	8350 mm 27'5"	8640 mm 28'4"	8960 mm 29'5"
Loader clearance circle (bucket at carry, outside corner of bucket)	14540 mm 47'8"	14460 mm 47'5"	14620 mm 48'	13670 mm 44'10"
Digging depth: 0°	120 mm 4.7"	120 mm 4.7"	120 mm 4.7"	160 mm 6.3"
10°	350 mm 1'2"	330 mm 1'1"	380 mm 1'3"	375 mm 14.7"
Static tipping load: straight	14960 kg 32,981 lb	14915 kg 32,882 lb	14710 kg 32,430 lb	12400 kg 27,330 lb
40° full turn	13785 kg 30,390 lb	13770 kg 30,358 lb	13615 kg 30,016 lb	10740 kg 23,060 lb
Breakout force	179 kN 18300 kgf 40,333 lb	196 kN 19980 kgf 44,048 lb	158 kN 16135 kgf 35,572 lb	163 kN 16633 kgf 36,670 lb
Operating weight	18530 kg 40,852 lb	18620 kg 41,050 lb	18700 kg 41,226 lb	19320 kg 42,590 lb

\* At the end of B.O.C.

All dimensions, weights, and performance values based on SAE J732c and J742b standards.

Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS Level 2 cab, additional counterweight, 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 CHANGES

Attachments	Operating weight		Tipping load straight		Tipping load full turn	
	kg	lb	kg	lb	kg	lb
Remove additional counterweight	-340	-750	-860	-1,900	-720	-1,590



## STANDARD EQUIPMENT

- 2-spool valve for boom and bucket controls
- Auto air conditioner
- Alternator, 60 A
- Auto shift transmission with mode select system
- Back-up alarm
- Back-up lamp
- Batteries, 150 Ah/12 V x 2
- Boom kick-out
- Bucket positioner
- Counterweight, standard and additional
- Directional signal
- ECSS (Electronically Controlled Suspension System)
- Engine, Komatsu SAA6D114E-3 diesel
- Engine shut-off system, electric
- Fan, auto reversing, hydraulic driven
- Floor mat
- Front fenders
- Fuel prefilter with water separator
- KOMTRAX™
- Lift cylinders and bucket cylinder
- Loader linkage with standard lift arm
- Main monitor panel with EMMS (Equipment Management Monitoring System)
- PPC fingertip control, two levers
- Radiator mask, lattice type
- Rear defroster (electric)
- Rear view mirrors for cab
- Rear window washer and wiper
- Rims for 23.5-25 tires
- ROPS/FOPS Level 2 cab
- Seat belt, 76 mm 3" wide
- Seat, air suspension with automatic weight adjustment
- Service brakes, wet disc type
- Starting motor, 7.5 kW/24 V
- Steering wheel, tiltable, telescopic
- Sun visor
- Transmission, 4 forward and 4 reverse
- Vandalism protection kit



## OPTIONAL EQUIPMENT

- 3-spool valve with lever and piping
- AM/FM stereo radio cassette
- Cutting edge (bolt-on type)
- Emergency steering (SAE)
- Engine pre-cleaner with extension
- Limited slip differential (F&R)
- Mono-lever loader control with transmission FIR switch
- Rear full fenders

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06/07 (EV-2)

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