

SPECIFICATIONS



ENGINE

ModelKomatsu SAA12V140E-3
 TypeWater-cooled, 4-stroke, turbocharger, aftercooled
 Engine power at rated engine speed
 WA800-3 (ISO 14396) 636 kW / 853 HP @ 2.000 rpm
 WA800-3 (ISO 9249) 603 kW / 809 HP @ 2.000 rpm
 WA900-3 (ISO 14396) 672 kW / 901 HP @ 2.050 rpm
 WA900-3 (ISO 9249) 638 kW / 856 HP @ 2.050 rpm
 Max. torque / engine speed
 WA800-33.727 Nm / 1.400 rpm
 WA900-34.089 Nm / 1.300 rpm
 No. of cylinders 12
 Bore x stroke140 x 165 mm
 Displacement30,48 ltr
 Governor Mechanical, all speed
 Injection system High pressure direct injection
 Lubricating system Gear pump
 Air-filter type Dry type with dust indicator
 and auto dust evacuator



TRANSMISSION

Torque converterOne-stage, one-phase, 3-element
 Transmission Full-powershift, planetary gear

Travel speeds			
Gear	1.	2.	3.
Forwards	7,0 km/h	12,3 km/h	28,0 km/h
Backwards	7,1 km/h	12,4 km/h	28,3 km/h

WA800-3: 45/65-45-46 PR L5 tubeless tyre

WA900-3: 45/65-45-58 PR L5 tubeless tyre



AXLES AND FINAL DRIVES

System 4-wheel drive
 Front axle HD axle, fixed, full-floating
 Rear axle HD axle, full-floating, 22° swing angle
 Reduction gear Spiral bevel gear
 Differential gear Straight bevel gear
 Final drive Planetary gear, single reduction



SERVICE REFILL CAPACITIES

Cooling system337 ltr
 Fuel tank 1.555 ltr
 Engine oil 130 ltr
 Hydraulic system725 ltr
 Axle (both front and rear axle)720 ltr
 Torque converter and transmission 140 ltr
 Brake tank 31 ltr



BRAKES

Operating brakesHydraulically actuated, wet multi-disc brakes
 on all wheels
 Parking brake Dry-disc, hydraulically-released,
 spring applied on front axle drive shaft
 Emergency brake Uses the parking brake



HYDRAULIC SYSTEM

Circulating capacities
 Loader pump (WA800-3)405 ltr/min
 Loader pump (WA900-3)415 ltr/min
 Switch pump (WA800-3)405 ltr/min
 Switch pump (WA900-3)415 ltr/min
 Steering pump (WA800-3)307 ltr/min
 Steering pump (WA900-3)315 ltr/min
 Working pressure (relief valve setting) (WA800-3)31,4 MPa
 Working pressure (relief valve setting) (WA900-3)34,3 MPa
 Control valve hydraulics2-spool
 No. of boom/bucket cylinders2/1
 Bore diameter x stroke
 Boom cylinder260 x 1.368 mm
 Bucket cylinder300 x 906 mm
 Hydraulic control lever positions
 BoomRaise, hold, lower, and float
 Bucket Tilt back, hold and dump
 Hydraulic cycle with rated load bucket filling
 Stroke time (raise time) 11,2 s
 Lowering time (empty) 4,8 s
 Dumping time 2,0 s



STEERING SYSTEM

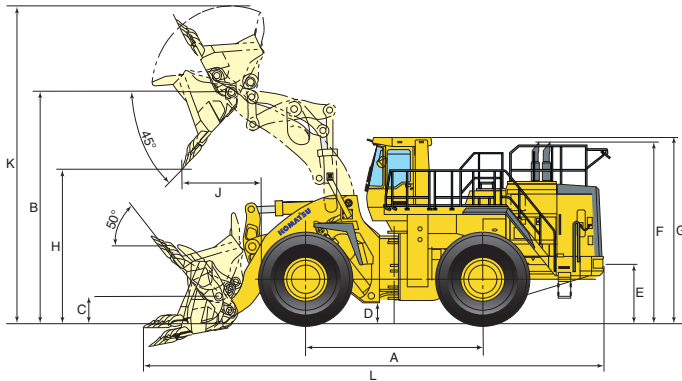
SystemArticulated frame steering
 Type Completely hydraulic power steering
 Steering angle to either side40°
 No. of steering cylinders 2
 Bore diameter x stroke 160 x 503 mm
 Smallest turn (centre of tyre)9.200 mm



ENVIRONMENT

Engine emissions Fully complies with EPA Tier 2
 exhaust emission regulations
 Vibration levels (EN 12096:1997)*
 Hand/arm ≤ 2,5 m/s² (WA800-3: uncertainty K = 0,06 m/s²)
 (WA900-3: uncertainty K = 0,38 m/s²)
 Body ≤ 0,5 m/s² (uncertainty K = 0,29 m/s²)
 * for the purpose of risk assessment under directive 2002/44/EC,
 please refer to ISO/TR 25398:2006.

DIMENSIONS AND PERFORMANCE FIGURES



Dimensions			
		WA800-3	WA900-3
	Tread	3.350 mm	3.350 mm
	Width over tyres	4.585 mm	4.585 mm
A	Wheelbase	5.450 mm	5.450 mm
B	Hinge pin height, maximum height	6.785 mm	6.960 mm
C	Hinge pin height, carry position	850 mm	800 mm
D	Ground clearance	550 mm	550 mm
E	Hitch height	1.390 mm	1.300 mm
F	Overall height, exhaust stack	5.130 mm	5.130 mm
G	Overall height, ROPS cab	5.275 mm	5.275 mm

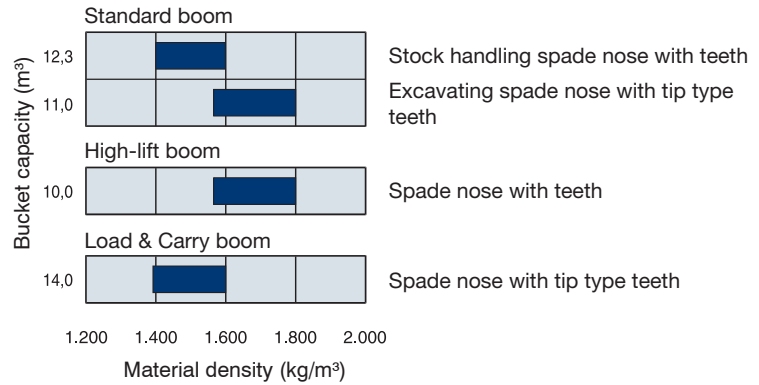
All measurements are for a WA800-3 with 45/65-45-46 PR L5 tyres and a WA900-3 with 45/65-45-58 PR L5 tyres.

Measurements and working specifications		WA800-3			
		Standard Boom		High-lift Boom	Load & Carry Boom
Boom		Excavating spade nose	Stock handling spade nose	Spade nose	Spade nose
Bucket type		with tip type teeth	with teeth	with teeth	with tip type teeth
Bucket capacity, heaped (ISO 7546:1983)	m ³	11,0	12,3	10,0	14,0
Bucket capacity, struck	m ³	9,3	10,4	8,5	11,5
Bucket width (excluding tyre protectors)	mm	4.810	4.810	4.810	5.090
Bucket weight	kg	11.430	12.150	10.750	12.080
Static tipping load, straight	kg	61.090	60.320	58.710	68.860
Static tipping load, 40° articulated	kg	53.740	52.970	51.640	60.660
H Dump clearance, maximum height and 45° discharge angle (at end of tooth)	mm	4.630	4.252	5.210	3.820
J Reach at maximum height and 45° discharge angle	mm	2.385	2.495	2.315	2.690
Reach with boom horizontal and bucket level	mm	4.360	4.510	5.010	4.550
K Operating height, fully raised	mm	9.300	9.430	9.625	8.740
Breakout force	kgf	69.000	64.170	71.790	67.000
Digging depth, when digging angle 0°	mm	165	165	200	200
Digging depth, when digging angle 10°	mm	605	630	620	670
Operating weight	kg	101.900	102.620	103.420	104.500
L Overall length	mm	13.690	14.110	14.695	13.685
Turning radius, outside corner of bucket	mm	10.940	10.965	11.100	11.020
Turning radius, center of tyre	mm	9.200	9.200	9.200	9.200

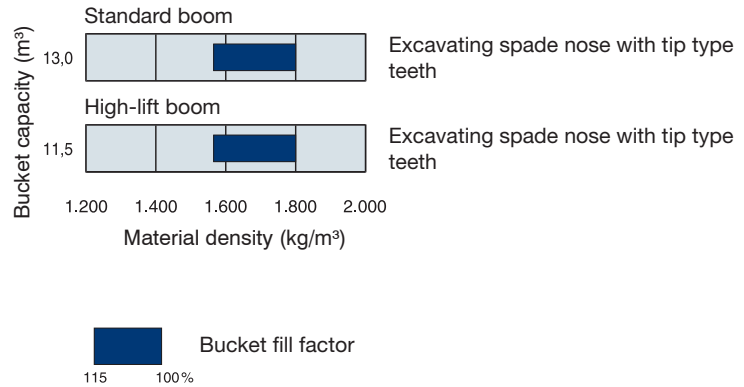
- Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers. SAE standard J732c, J742b and ISO 7546:1983.
- Static tipping load and operating weight shown include 45/65-45-46 PR L5 (WA800-3) / 45/65-45-58 PR L5 (WA900-3) tyres, enclosed cab, ROPS canopy, lubricant, full fuel tank, optional counterweight, and operator.
- Machine stability and operating weight are affected by counterweight, tyre size, and other weight changes to operating weights and static tipping load.

BUCKET SELECTION GUIDE

WA800-3



WA900-3



WA900-3	
Standard Boom	High-lift Boom
Excavating spade nose	Excavating spade nose
with tip type teeth	with tip type teeth
13,0	11,5
11,0	9,7
4.810	4.810
12.330	11.370
65.670	62.540
57.430	55.030
4.640	5.255
2.450	2.235
4.640	4.760
9.680	9.875
67.900	71.700
165	160
645	610
107.200	107.350
14.490	14.685
11.000	11.200
9.200	9.200

This guide, representing bucket sizes for general purpose applications, will help you select the proper bucket size for material density, loader configuration, and operating conditions. Optimum bucket size is determined after adding or subtracting all tipping load changes due to optional equipment. Bucket fill factors represent the approximate amount of material as a percent of rated bucket capacity. Fill factors are primarily affected by material, ground conditions, breakout force, bucket profile, and the cutting edge of the bucket used. For bench excavating bucket sizes, please contact your nearest Komatsu distributor for more information.