

SPECIFICATIONS



ENGINE

ModelKomatsu SAA6D107E-1
 TypeWater-cooled, 4-cycle
 AspirationTurbocharged, aftercooled
 Number of cylinders6
 Bore x stroke**107 mm x 124 mm** 4.21" x 4.88"
 Piston displacement**6.69 ltr** 408 in³
 GovernorAll-speed, electronic
 Horsepower
 SAE J1995Gross **104 kW** 140 HP
 ISO 9249/SAE J1349*Net **103 kW** 138 HP
 Rated rpm2000 rpm
 Fan drive method for radiator coolingHydraulic
 Fuel systemDirect injection
 Lubrication system:
 MethodGear pump, force-lubrication
 FilterFull-flow type
 Air cleanerDry type with double elements and
 dust evacuator, plus dust indicator

*Net horsepower at the maximum speed of radiator cooling fan is 100 kW 134 HP.

EPA Tier 3 and EU Stage 3A emissions certified.



TRANSMISSION

Transmission:
 TypeHydrostatic, 1 pump, 2 motors with speed range select
 Travel speed: **km/h** mph
 Measured with 17.5-25 tires

	1st	2nd	3rd	4th
Both Forward and Reverse	3.6 - 11.7	11.7	16.2	34.2
	2.2 - 7.3	7.3	10.1	21.2

Measured with 20.5-25 tires

	1st	2nd	3rd	4th
Both Forward and Reverse	4.0 - 13.0	13.0	18.0	38.0
	2.5 - 8.1	8.1	11.2	23.6



AXLES AND FINAL DRIVES

Drive systemFour-wheel drive
 FrontFixed, semi-floating
 RearCenter-pin support, semi-floating,
 24° total oscillation
 Reduction gearSpiral bevel gear
 Differential gearTorque proportioning
 Final reduction gearPlanetary gear, single reduction



BRAKES

Service brakesHydraulically actuated,
 wet disc brakes actuate on four wheels
 Parking brakeWet, multi-disc brake on transfer output shaft
 Emergency brakeParking brake is commonly used



STEERING SYSTEM

TypeFull-hydraulic power steering
 Steering angle38° each direction (40° end stop)
 Minimum turning radius at
 the center of outside tire**5175 mm** 17'0"



HYDRAULIC SYSTEM

Steering system:
 Hydraulic pumpGear type pump
 Capacity**110 ltr/min** 29.1 U.S. gal/min at rated rpm
 Relief valve setting**18.6 MPa** 190 kgf/cm² 2,700 psi
 Hydraulic cylinders:
 TypeDouble-acting, piston type
 Number of cylinders2
 Bore x stroke**70 mm x 453 mm** 2.8" x 17.8"

Loader control:
 Hydraulic pumpGear type pump
 Capacity**78 ltr/min** 20.6 U.S. gal/min
 Relief valve setting**20.6 MPa** 210 kgf/cm² 3,000 psi
 Hydraulic cylinders:
 TypeDouble-acting, piston type
 Number of cylinders—bore x stroke:
 Lift cylinder2- **130 mm x 717 mm** 5.1" x 28.2"
 Bucket cylinder1- **150 mm x 491 mm** 5.9" x 19.3"
 Control valve2-spool type
 Control positions:
 BoomRaise, hold, lower, and float
 BucketTilt-back, hold, and dump
 Hydraulic cycle time (rated load in bucket)
 Raise6.3 sec
 Dump1.7 sec
 Lower (Empty)3.6 sec

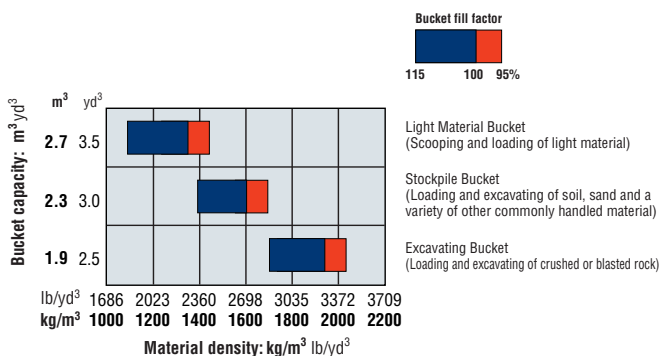


SERVICE REFILL CAPACITIES

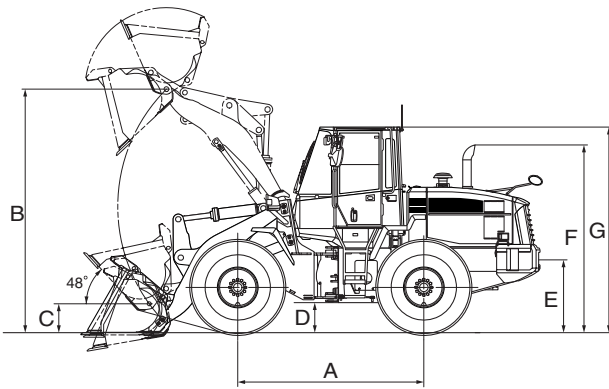
Cooling system**22 ltr** 5.8 U.S. gal
 Fuel tank**186 ltr** 49.1 U.S. gal
 Engine**23 ltr** 6.1 U.S. gal
 Hydraulic system**67 ltr** 17.7 U.S. gal
 Axle (each front and rear)**18 ltr** 4.8 U.S. gal
 Torque converter and transmission**5 ltr** 1.3 U.S. gal



BUCKET SELECTION GUIDE



 DIMENSIONS



	17.5-25 tires		20.5-25 tires	
Tread	1930 mm	6'4"	1930 mm	6'4"
Width over tires	2375 mm	7'10"	2470 mm	8'1"
A Wheelbase	2900 mm	9'6"	2900 mm	9'6"
B Hinge pin height, max. height	3725 mm	12'3"	3795 mm	12'5"
C Hinge pin height, carry position	375 mm	1'3"	450 mm	1'6"
D Ground clearance	395 mm	1'4"	465 mm	1'6"
E Hitch height	880 mm	2'11"	950 mm	3'1"
F Overall height, top of the stack	2855 mm	9'4"	2925 mm	9'7"
G Overall height, ROPS cab	3130 mm	10'3"	3200 mm	10'6"

Measured with 17.5-25-16PR (L2) tires, ROPS/FOPS cab

	Stockpile Bucket		Excavating Bucket		Light Material Bucket
	Bolt-On Cutting Edges	Teeth	Bolt-On Cutting Edges	Teeth	Bolt-On Cutting Edges
Bucket capacity: heaped	2.3 m ³	2.1 m ³	1.9 m ³	1.8 m ³	2.7 m ³
	3.0 yd ³	2.7 yd ³	2.5 yd ³	2.4 yd ³	3.5 yd ³
struck	2.0 m ³	1.8 m ³	1.6 m ³	1.5 m ³	2.3 m ³
	2.6 yd ³	2.4 yd ³	2.1 yd ³	2.0 yd ³	3.0 yd ³
Bucket width	2685 mm 8'10"	2705 mm 8'10"	2685 mm 8'10"	2705 mm 8'10"	2685 mm 8'10"
Bucket weight	960 kg 2,116 lb	865 kg 1,907 lb	905 kg 1,995 lb	810 kg 1,786 lb	1050 kg 2,315 lb
Dumping clearance, max. height and 45° dump angle*	2780 mm 9'1"	2665 mm 8'9"	2855 mm 9'4"	2740 mm 9'0"	2685 mm 8'10"
Reach at max. height and 45° dump angle*	1055 mm 3'6"	1155 mm 3'9"	980 mm 3'3"	1080 mm 3'7"	1150 mm 3'9"
Reach at 2130 mm (7') clearance and 45° dump angle*	1535 mm 5'0"	1560 mm 5'1"	1495 mm 4'11"	1530 mm 5'0"	1580 mm 5'2"
Reach with arm horizontal and bucket level*	2305 mm 7'7"	2450 mm 8'0"	2200 mm 7'3"	2345 mm 7'8"	2430 mm 8'0"
Operating height (fully raised)	4995 mm 16'5"	4995 mm 16'5"	4875 mm 16'0"	4875 mm 16'0"	5130 mm 16'10"
Overall length	7055 mm 23'2"	7200 mm 23'7"	6950 mm 22'10"	7095 mm 23'3"	7185 mm 23'7"
Loader clearance circle (bucket at carry, outside corner of bucket)	12060 mm 39'7"	12140 mm 39'10"	12030 mm 39'6"	12085 mm 39'8"	12220 mm 40'1"
Digging depth: 0°	145 mm 5.7"	160 mm 6.3"	145 mm 5.7"	160 mm 6.3"	145 mm 5.7"
	10°	335 mm 1'1"	375 mm 1'3"	315 mm 1'0"	355 mm 1'2"
Static tipping load: straight	11110 kg 24,495 lb	11205 kg 24,705 lb	11230 kg 24,760 lb	11325 kg 24,970 lb	10960 kg 24,160 lb
	38° full turn	9780 kg 21,560 lb	9860 kg 21,740 lb	9885 kg 21,790 lb	9965 kg 21,970 lb
Breakout force	121 kN 12340 kgf 27,210 lb	106 kN 10830 kgf 23,875 lb	136 kN 13850 kgf 30,535 lb	117 kN 12010 kgf 26,475 lb	108 kN 11000 kgf 24,250 lb
	Operating weight	10965 kg 24,170 lb	10870 kg 23,965 lb	10910 kg 24,050 lb	10815 kg 23,845 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 cab, 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

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions		Change in Reach	
			Straight		Full Turn									
17.5-25-16PR (L3)	55 kg	121 lb	45 kg	99 lb	35 kg	77 lb	2375 mm	7'10"	395 mm	1'4"	0 mm	0"	0 mm	0"
20.5-25-12PR (L2)	280 kg	617 lb	215 kg	474 lb	190 kg	419 lb	2470 mm	8'1"	465 mm	1'6"	70 mm	2.8"	-70 mm	-2.8"
20.5-25-12PR (L3)	430 kg	948 lb	325 kg	717 lb	280 kg	617 lb	2470 mm	8'1"	465 mm	1'6"	70 mm	2.8"	-70 mm	-2.8"
Install ROPS canopy (instead of cab)	-150 kg	-331 lb	-150 kg	-331 lb	-130 kg	-287 lb								
Additional counterweight	300 kg	661 lb	580 kg	1,279 lb	510 kg	1,124 lb								



STANDARD EQUIPMENT

- 2-spool valve for boom and bucket controls
- Air conditioner
- Alternator, 60 A
- Auto shift transmission with mode select system
- Back-up alarm
- Back-up lamp
- Batteries, 110 Ah/2 x 12 V
- Bucket positioner
- Counterweight
- Directional signal
- Engine, Komatsu SAA6D107E-1 diesel
- Engine shut-off system, electric
- Floor mat
- Fuel prefilter with water separator
- Hydraulic-driven fan with reverse rotation
- Lift cylinders and bucket cylinder
- Loader linkage with standard lift boom
- Main monitor panel with EMMS (Equipment Management Monitoring System)
- PPC fingertip control, mono lever
- Radiator mask, lattice type
- Rear defroster (electric)
- Rear view mirror
- Rear window washer and wiper
- ROPS/FOPS cab
- Seat, rigid type with reclining
- Seat belt
- Service brakes, wet disc type
- Starting motor, 4.5 kW/24 V
- Steering wheel, tiltable
- Sun visor
- Tires (17.5-25-16PR, L2 tubeless) and rims
- Transmission, 4 forward and 4 reverse



OPTIONAL EQUIPMENT

- 3-spool valve
- Additional counterweight
- AM/FM radio
- AM/FM stereo radio cassette
- Boom kick-out
- Bucket teeth (bolt-on type)
- Bucket teeth (tip type)
- Cutting edge (bolt-on type)
- Deluxe suspension seat
- ECSS (Electronically Controlled Suspension System)
- Emergency steering (SAE)
- Engine pre-cleaner with extension
- Fire extinguisher
- Front fenders
- High lift boom
- Limited slip differential (F&R)
- Rear full fender
- Tool kit
- Vandalism protection kit

www.Komatsu.com

Printed in Japan 201303 IP.SIN

KOMATSU®

CEN00259-02

Materials and specifications are subject to change without notice
KOMATSU is a trademark of Komatsu Ltd. Japan