

SPECIFICATIONS

ENGINE

ModelKomatsu SAA6D107E-1
 TypeWater-cooled, 4-cycle
 AspirationTurbocharged, aftercooled
 Number of cylinders6
 Bore x stroke107 mm x 124 mm 4.21" x 4.88"
 Piston displacement6.69 ltr 408 in³
 GovernorAll-speed, electronic
 Horsepower
 SAE J1995Gross 127.3 kW 171 HP
 ISO 9249/SAE J1349*Net 125 kW 167 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 117 kW 156 HP.

TRANSMISSION

Transmission:
 TypeHydrostatic, 1 pump, 2 motors with speed range select
 Travel speed: km/h mph
 Measured with 20.5-25 tires

	1st	2nd	3rd	4th
Both Forward and Reverse	4.0 - 13.0	13.0	18.7	38.0
	2.5 - 8.1	8.1	11.6	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 angle38.5° each direction (40° end stop)
 Minimum turning radius at the center of outside tire5380 mm 17'8"

HYDRAULIC SYSTEM

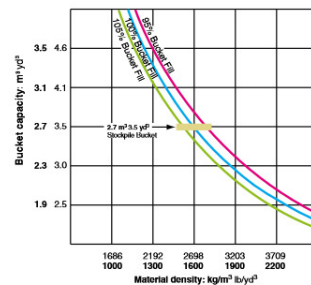
Steering system:
 Hydraulic pumpGear type pump
 Capacity172 ltr/min 45.4 U.S. gal/min at rated rpm
 Relief valve setting20.6 MPa 210 kgf/cm² 2,990 psi
 Hydraulic cylinders:
 TypeDouble-acting, piston type
 Number of cylinders2
 Bore x stroke70 mm x 453 mm 2.8" x 17.8"

Loader control:
 Hydraulic pumpGear type pump
 Capacity61 ltr/min 16.1 U.S. gal/min
 Relief valve setting20.6 MPa 210 kgf/cm² 3,000 psi
 Hydraulic cylinders:
 TypeDouble-acting, piston type
 Number of cylinders—bore x stroke:
 Boom cylinder2-140 mm x 729 mm 5.5" x 28.7"
 Bucket cylinder1-180 mm x 558 mm 7.1" x 22.0"
 Control valve3-spool type
 Control positions:
 BoomRaise, hold, lower, and float
 BucketTilt-back, hold, and dump
 Hydraulic cycle time (rated load in bucket)
 Raise5.6 sec
 Dump1.9 sec
 Lower (Empty)3.3 sec

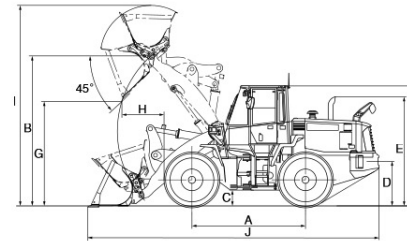
SERVICE REFILL CAPACITIES

Cooling system25 ltr 6.6 U.S. gal
 Fuel tank245 ltr 64.7 U.S. gal
 Engine23 ltr 6.1 U.S. gal
 Hydraulic system89 ltr 23.5 U.S. gal
 Axle (each front and rear)24 ltr 6.3 U.S. gal
 Torque converter and transmission6.5 ltr 1.7 U.S. gal

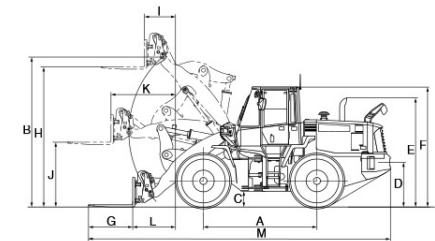
BUCKET SELECTION GUIDE



DIMENSIONS



Standard tire20.5-25-12PR(L2)
 Tread2050 mm 6'9"
 Wide over tires2590 mm 8'6"
 A Wheelbase3030 mm 9'11"
 B Hinge pin height, maximum height4005 mm 13'2"



C Ground clearance425 mm 1'5"
 D Hitch height1095 mm 3'7"
 E Overall height, top of stack2915 mm 9'7"
 F Overall height, ROPS cab3200 mm 10'6"

Bucket

	Bucket type with bolt-on cutting edge		Light Material	
	Heaped	Struck	2.7 m³	3.5 yd³
Bucket Capacity	2.3 m³	3.0 yd³		
Bucket Width	2740 mm	9'0"		
Static Tipping Load	Straight	10410 kg	22,950 lb	
	Full Turn (40°)	9160 kg	20,190 lb	
Operating Weight		15280 kg	33,690 lb	
QC-Bucket Weight		1140 kg	2,510 lb	
G Dumping Clearance, maximum height and 45° dump angle*		2800 mm	9'2"	
H Reach at 2130 mm 7' and 45° dump angle*		1670 mm	5'6"	
H Reach at maximum height and 45° dump angle*		1130 mm	3'8"	
Reach with boom/bucket level*		2655 mm	8'9"	
I Operating Height, fully raised		5355 mm	17'7"	
J Overall Length, bucket on ground		7770 mm	25'6"	
Digging Depth	0"	130 mm	5.1'	
	10"	370 mm	1'3"	
Breakout Force		14410 kg	31,770 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, HOPS cab and operator. Machine stability and operating weight affected by tire size and attachments.

Fork

	Static tipping load – boom level		Fork level, 610 mm 24" load center	
	Straight	Full turn (40°)	8235 kg	18,150 lb
Operating weight			14695 kg	32,400 lb
G Fork tine length			1220 mm	4'0"
H Ground to top of tine at maximum lift			3810 mm	12'6"
I Reach at maximum lift			835 mm	2'9"
J Ground to top of Tine – boom and tine level			1795 mm	5'11"
K Reach – boom and tine level			1730 mm	5'8"
L Reach – tine level on ground			1100 mm	3'7"
M Overall Length – tine level on ground			8035 mm	26'4"
Operating load			3525 kg	7,770 lb

Operating load per SAE J1197 (Feb. 1991), 50% of static tipping load.

Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, HOPS cab and operator. Machine stability and operating weight affected by tire size and attachments.

Weight Changes

	Change in Operating Weight		Change in Tipping Load		Width Over Tires	Ground Clearance	Change in Vertical Dimensions					
	Straight	Full Turn	Straight	Full Turn								
20.5/25-12PR (L3)	165 kg	364 lb	105 kg	231 lb	95 kg	209 lb	2590 mm	8'6"	425 mm	1'5"	0 mm	0"
Install ROPS canopy (instead of cab)	-290 kg	-639 lb	-135 kg	-298 lb	-120 kg	-265 lb						