

NET HORSEPOWER

165 HP @ 2100 rpm 123 kW @ 2100 rpm

OPERATING WEIGHT

33,731–33,984 lb 15,300–15,415 kg

BUCKET CAPACITY

3.7–4.2 yd³ 2.8–3.2 m³



PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT

SPECIFICATIONS



ENGINE

Model Komatsu SAA6D107E-2* Type
Bore
Stroke
Piston displacement
Governor
Horsepower:
SAE J1995 Gross 127 kW 170 HP
ISO 9249 / SAE J1349 Net 123 kW 165 HP
Rated rpm 2100 rpm
Max power - ISO 14396 129 kW 173 HP @ 1900 rpm
Fan drive method for radiator coolingHydraulic
Fuel systemDirect injection
Lubrication system:
MethodGear pump, force-lubrication FilterFull-flow type
Air cleaner

*EPA Tier 4 Interim and EU stage 3B emissions certified



TRANSMISSION

Transmission......Hydrostatic, 1 pump, 2 motors with speed range select

Travel speed	Forward	Reverse
1st	1.0 - 13.0 km/h 0.6 - 8.1 mph	1.0 - 13.0 km/h 0.6 - 8.1 mph
2nd	13.0 km/h 8.1 mph	13.0 km/h 8.1 mph
3rd	18.7 km/h 11.6 mph	18.7 km/h 11.6 mph
4th	38.0 km/h 23.6 mph	38.0 km/h 23.6 mph

Measured with 20.5-R25 tires



AXLES AND FINAL DRIVES

Drive system	Four-wheel drive
	Fixed, semi-floating
Rear	Center-pin support, semi-floating,
	24° total oscillation
Reduction gear	Spiral bevel gear
Differential gear	Torque proportioning
Final reduction gear	



BRAKES

Service brakes Hydraulically actuat	ed,
wet disc brakes actuate on four whe	els
Parking brake Wet, multi-disc brake on transfer output sh	naft
Secondary brake Parking brake is commonly us	sed



STEERING SYSTEM



HYDRAULIC SYSTEM

Steering system:
Hydraulic pump
with loader control
Capacity 189 ltr/min 49.9 U.S. gal/min at rated rpm
Relief valve setting 20.6 MPa 210 kgf/cm ² 3,000 psi Hydraulic cylinders:
Type Double-acting, piston type
Number of cylinders
Bore x stroke 70 mm x 453 mm 2.76" x 17.8"
Loader control:
Hydraulic pump Piston pump, in common
with steering system
Capacity 189 ltr/min 49.9 U.S gal/min at rated rpm
Relief valve setting 30.4 MPa 310 kgf/cm ² 4,410 psi
Hydraulic cylinders:
Type Double-acting, piston type
Number of cylinders—bore x stroke:
Lift cylinder
Bucket cylinder 1- 150 mm x 558 mm 5.9" x 22"
Control valve
Control positions:
•
Boom Raise, hold, lower, and float
BucketTilt-back, hold, and dump
Hydraulic cycle time (rated load in bucket)
Raise 6.1 sec



SERVICE REFILL CAPACITIES

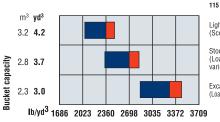
 Dump
 1.9 sec

 Lower (Empty)
 3.5 sec

Cooling system	30 Itr	7.9 U.S. gal
Fuel tank	245 Itr	64.7 U.S. gal
Engine	25.5 ltr	6.7 U.S. gal
Hydraulic system	90 Itr	23.7 U.S. gal
Axle front	24 Itr	6.3 U.S. gal
Axle rear	24 Itr	6.3 U.S. gal
Transfer case	8 Itr	2.1 U.S. gal



BUCKET SELECTION GUIDE



Light Material Bucket with BOC (Scooping and loading of light material)

100 95%

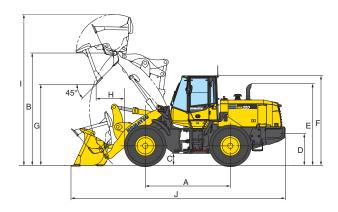
Bucket fill factor

Stockpile Bucket with BOC (Loading and excavating of soil, sand and a variety of other commonly handled material)

Excavating Bucket with BOC (Loading and excavating of crushed or blasted rock)

kg/m³ 1000 1200 1400 1600 1800 2000 2200 **Material density**

DIMENSIONS



Standard tire	20.5-R25(L3)		
Tread	2050 mm	6'9"	
Width over tires	2590 mm	8'6"	
A Wheelbase	3030 mm	9'11"	
B Hinge pin height, maximum	4005 mm	13'2"	

C Ground clearance 425 mm 1'5"

G Ground clearance	425 mm	1.2.
D Hitch height	1085 mm	3'7"
E Overall height, top of the stack	2910 mm	9'7"
F Overall height, ROPS cab	3200 mm	10'6"

BUCKET

		Stockpile Bucket	Light Material Bucket
		with pin on bucket	with pin on bucket
		Bolt-on Cutting Edge	Bolt-on Cutting Edge
	Bucket capacity: heaped	2.8 m ³	3.2 m ³
		3.7 yd ³	4.2 yd ³
	struck	2.4 m ³	2.8 m ³
		3.1 yd³	3.7 yd ³
	Bucket width	2740 mm	2740 mm
		9'0"	9'0"
	Static tipping load: straight	11630 kg	11740 kg
		25,640 lb	25,882 lb
	40° full turn	9610 kg	9730 kg
		21,186 lb	21,451 lb
	Operating weight	15300 kg	15415 kg
		33,731 lb	33,984 lb
G	Dumping clearance, max.	2880 mm	2745 mm
	height and 45° dump angle*	9'5"	9'0"
	Reach at 2130 mm (7')	1595 mm	1620 mm
	clearance and 45° dump angle*	5'3"	5'4"
Н	Reach at max. height and	1000 mm	1110 mm
	45° dump angle*	3'3"	3'8"
	Reach with boom and	2500 mm	2665 mm
	bucket level*	8'2"	8'9"
1	Operating height (fully raised)	5375 mm	5465 mm
		17'8"	17'11"
J	Overall length (bucket on ground)	7635 mm	7800 mm
		25'0"	25'7"
	Digging depth: 0°	165 mm	165 mm
		6.5"	6.5"
	10°	375 mm	410 mm
		1'3"	1'4"
	Breakout force	16470 kgf	14130 kgf
		36,310 lb	31,151 lb

^{*} At the end of tooth or B.O.C.E.

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 tire size and attachments.

FORK

			With Quick Coupler
	Static tipping load - boom level: fork level, tine center	straight	8310 kg 18,320 lb
		40° full turn	7120 kg 15,697 lb
	Operating weight		15080 kg 33,246 lb
G	Fork tine length		1524 mm 5'0"
Н	Ground to top of tine at maximum lift		3855 mm 12'7"
1	Reach at maximum lift		840 mm 2'9"
J	Ground to top of tine - boom and tine	level	1845 mm 6'0"
K	Reach - boom and tine level		1730 mm 5'8"
L	Reach - tine level on ground		1060 mm 3'6"
M	Overall length - tine level on ground		8320 mm 27'3"
	Operating load		3560 kg 7,849 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, ROPS cab and operator. Machine stability and operating weight affected by tire size and attachments.

Tires or attachments	Change in operating weight		Change in tipping load Straight Full turn			Width over tires		Ground clearance		Change in vertical dimensions		
	kg	lb	kg	lb	kg	lb	mm ft in		mm	ft in	mm	ft in
20.5-25-12PR (L2)	-165	-364	-105	-231	-95	-209	2585	8'6"	425	1'5"	0	0
Remove additional counterweight	-250	-551	-440	-970	-80	-176	0	0	0	0	0	0



STANDARD EQUIPMENT

- 2-spool valve for boom and bucket control
- Alternator, 60 A
- Auto shift transmission with mode select system
- Automatic hydraulic-driven fan with automatic reverse rotation
- Back-up alarm
- Batteries, 92 Ah/12V (2), 680 CCA
- Battery disconnect
- Boom kick-out, in-cab adjustable
- Bucket positioner
- Color rear view camera and monitor
- Counterweight, standard and additional
- Electronically Controlled Suspension System (ECSS)
- Engine, Komatsu SAA6D107E-2 diesel
- Engine shut-off system, electric
- Equipment Management Monitoring System (EMMS)
- Lights (central warning, brake oil pressure, engine oil pressure, parking brake, cooling fan reverse, KDPF restriction, seat belt caution, Komtrax message)
- Gauges (Engine water temperature, ECO, Fuel level, HST oil temperature, speedometer/tachometer), variable speed display

- Front fenders
- Fuel pre-filter with water separator
- Horn, electric
- Hydrostatic transmission
- Komatsu SmartLoader Logic
- Komatsu Auto Idle Shutdown
- KOMTRAX® Level 4
- Lift cylinders and bucket cylinder
- Lights
 - Back-up light
 - Stop and tail light
 - Turn signal lamps, 2 front and 2 rear with hazard switch
 - Working lights, halogen, 2 front cab mount
 - Working lights, halogen, 2 front fender mount
 - Working lights, halogen, 2 rear grill mount
- Loader linkage with standard lift arm
- Multifunction mono-lever loader control with transmission F/R switch
- Parking brake, electric
- Radiator, wider core
- Radiator mask, swing up
- Rear view mirrors, outside (2) inside (2)
- Rims for 20.5-R25 tires

- ROPS/FOPS Cab Level 2
 - 2 x DC12V electrical outlets
 - Ashtray
 - Auto air conditioner
 - Cigarette lighter, 24V
 - Color LCD/TFT multi-monitor
 - Cup holder
 - Floor mat
 - Operator seat, reclining, air suspension type, heated
 - Radio, AM/FM with AUX input jack
 - Rear defroster, electric
 - Seatbelt, 2-point retractable, 76mm 3" width
 - Space for lunch box
 - Steering wheel, tilt and telescopic
 - Sun visor, front window
 - Windshield washer and wiper, front with intermittent
 - Windshield washer and wiper, rear
- Service brakes, wet disc type
- Starting motor, 5.5 kW
- Transmission speed ranges, 4 forward and 4 reverse
- Vandalism protection kit, padlocks for battery box (2)



- 3-spool valve (will utilize integrated proportional control switch included in the multi-function mono-lever) and piping
- Auxiliary steering (SAE)

- Cutting edge (bolt-on type)
- Limited slip differential (F&R)
- Quick coupler
- Rear full fenders

- Various tire options, radial and bias
- Various bucket options

AESS848-00

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AD(Electronic View Only)

12/12 (EV-2)

