

### **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 yd**<sup>3</sup> 2.8–3.2 m<sup>3</sup>



PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT

## **SPECIFICATIONS**



#### ENGINE

Type	Komatsu SAA6D107E-2* Water-cooled, 4-cycle Turbo-charged, after-cooled, cooled EGR
Number of cylinders	6
Bore	107 mm <b>4.21"</b>
Stroke	124 mm <b>4.88"</b>
Piston displacement	6.69 ltr <b>408 in<sup>3</sup></b>
Governor	All-speed, electronic
Horsepower:	
SAE J1995	Gross 127 kW <b>170 HP</b>
	349 Net 123 kW <b>165 HP</b>
Rated rpm	2100 rpm
Max power - ISO 1	4396129 kW <b>173 HP</b> @ 1900 rpm
Fan drive method for	radiator coolingHydraulic
	Direct injection
Lubrication system:	•
	Gear pump, force-lubrication Full-flow type
	Dry type with double elements and
	dust evacuator, plus dust indicator

\*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 <b>0.6 - 8.1 mph</b>	1.0 - 13.0 km/h <b>0.6 - 8.1 mph</b>
2nd	13.0 km/h <b>8.1 mph</b>	13.0 km/h <b>8.1 mph</b>
3rd	18.7 km/h <b>11.6 mph</b>	18.7 km/h <b>11.6 mph</b>
4th	38.0 km/h <b>23.6 mph</b>	38.0 km/h <b>23.6 mph</b>

Measured with 20.5-R25 tires



#### **AXLES AND FINAL DRIVES**

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



#### **BRAKES**

Service brakes	Hydraulically actuated,
wet o	disc brakes actuate on four wheels
Parking brake Wet, multi-	disc brake on transfer output shaft
Secondary brake	Parking brake is commonly used



#### **STEERING SYSTEM**



### HYDRAULIC SYSTEM

Steering system: Hydraulic pumpPiston pump, in common with loader control
Capacity 180 ltr/min <b>47.6 U.S. gal/min</b> at rated rpm Relief valve setting 20.6 MPa 210 kgf/cm <sup>2</sup> <b>3,000 psi</b> Hydraulic cylinders:
Type
Loader control: Hydraulic pump Piston pump, in common with steering system
Capacity 180 ltr/min <b>47.6 U.S gal/min</b> at rated rpm Relief valve setting 30.4 MPa 310 kgf/cm <sup>2</sup> <b>4,410 psi</b> Hydraulic cylinders:
Type Double-acting, piston type Number of cylinders – bore x stroke:
Lift cylinder
Control positions:
Boom
Raise

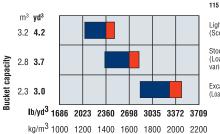


### SERVICE REFILL CAPACITIES

Cooling system 2	3 ltr <b>6</b>	.1 U.S. gal
Fuel tank 24	5 ltr <b>64</b>	.7 U.S. gal
Engine 2	3 ltr <b>6</b>	.1 U.S. gal
Hydraulic system9	0 ltr <b>23</b>	.7 U.S. gal
Axle front	7 Itr <b>7</b>	.1 U.S. gal
Axle rear	5 ltr <b>6</b>	.7 U.S. gal
Transfer case	8 ltr <b>1</b>	.5 U.S. gal



#### **BUCKET SELECTION GUIDE**



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

100 95%

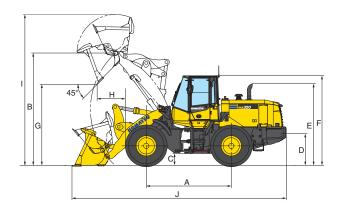
Bucket fill factor

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)

Material density

# DIMENSIONS



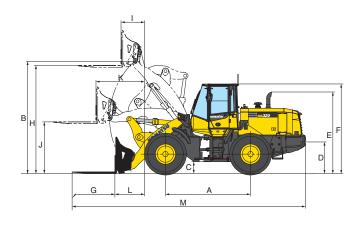
Standard tire	20.5	5-R25(L3)
Tread	2050 mm	6'9"
Width over tires	2590 mm	8'6"
A Wheelbase	3030 mm	9'11"
B Hinge pin height, maximum	4005 mm	13'2"

#### **BUCKET**

			Stockpile Bucket with pin on bucket Bolt-on Cutting Edge	Light Material Bucket with pin on bucket Bolt-on Cutting Edge
	Bucket capacity:	heaped	2.8 m <sup>3</sup>	3.2 m <sup>3</sup>
			3.7 yd <sup>3</sup>	4.2 yd <sup>3</sup>
		struck	2.4 m <sup>3</sup>	2.8 m <sup>3</sup>
	Decelorate contains		3.1 yd³	3.7 yd³
	Bucket width		2740 mm <b>9'0"</b>	2740 mm <b>9'0"</b>
	Bucket weight		1330 kg <b>2,932 lb</b>	1445 kg <b>3,186 lb</b>
G	Dumping clearand height and 45° du	,	2880 mm <b>9'5"</b>	2745 mm <b>9'0"</b>
Н	Reach at max. he 45° dump angle*	ight and	1000 mm <b>3'3"</b>	1110 mm <b>3'8"</b>
	Reach at 2130 miclearance and 45°	· /	1595 mm <b>5'3"</b>	1620 mm <b>5'4"</b>
	Reach with boom bucket level*	and	2500 mm <b>8'2"</b>	2665 mm <b>8'9"</b>
I	Operating height	(fully raised)	5375 mm <b>17'8"</b>	5465 mm <b>17'11"</b>
J	Overall length (bu	cket on ground)	7635 mm <b>25'0"</b>	7800 mm <b>25'7"</b>
	Loader clearance at carry, outside of	,	12620 mm <b>41'5"</b>	12715 mm <b>41'9"</b>
	Digging depth:	0°	165 mm <b>6.5"</b>	165 mm <b>6.5"</b>
		10°	375 mm <b>1'3"</b>	410 mm <b>1'4"</b>
	Static tipping load	l: straight	11630 kg <b>25,640 lb</b>	11740 kg <b>25,882 lb</b>
		40° full turn	9610 kg <b>21,186 lb</b>	9730 kg <b>21,451 lb</b>
	Breakout force		16470 kgf <b>36,310 lb</b>	14130 kgf <b>31,151 lb</b>
	Operating weight		15300 kg <b>33,731 lb</b>	15415 kg <b>33,984 lb</b>

<sup>\*</sup> 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.



C Ground clearance	425 mm	1'5"
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"

#### **FORK**

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

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)



#### **OPTIONAL EQUIPMENT**

- 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

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