SPECIFICATIONS



ENGINE

Type	
Flywheel horsepower ISO 9249 / SAE J1349	Gross 74 kW 99 HP
	Net 71 kW 96 HP
Rated rpm	2000 rpm
Meets EPA emissions regulations	
Fuel system	Direct injection
	Gear pump, force-lubrication Full-flow
	be with double radial-sealed elements and dust evacuator, plus dust indicator

EPA Tier 2 and EU Stage 2 emissions certified.



TRANSMISSION

Travel speed (Both Forward and Reverse)

	16.9-2	24 tires	17.5-2	25 tires
1st*	4.6 - 13.0 km/h	2.9 - 8.1 mph	5.0 - 13.6 km/h	3.1 - 8.5 mph
2nd	13.0 km/h	8.1 mph	13.6 km/h	8.5 mph
3rd	20.0 km/h	12.4 mph	21.0 km/h	13.0 mph
4th	38.0 km/h	23.6 mph	39.0 km/h	24.2 mph

^{*1}st speed can be set variably



AXLES AND FINAL DRIVES

heel drive
ni-floating
ni-floating
oscillation
evel gear
portioning
reduction



BRAKES

Service brakes: Hydraulically-actuated, wet disc brakes actuate on four wheels.

Parking brake: Wet, multi-disc brake on transfer output shaft.

Emergency brake: Parking brake is commonly used.



STEERING SYSTEM

Type	Full-hydraulic power
Si	teering independent of engine rpm
Steering angle	40° each direction
Minimum turning radius at the	
center of outside tire	



BUCKET CONTROLS

The use of a PPC hydraulic control valve offers lighter operating effort for the work equipment control levers. The reduction in the lever effort and travel makes it easy to operate in the work environment.

Control positions

Boom	Raise, hold, lower, and float
Bucket	Tilt-back, hold, and dump



HYDRAULIC SYSTEM

Capacity (discharge flow) @ engine-rated rpm

Maximum flow for loader circuit

Relief valve setting

Control valve

2-spool open center type

Hydraulic cylinders

Loader and steering Double-acting, piston

Hydraulic Cylinders	Number of Cylinders	Во	re	Str	oke
Lift	2	110 mm	4.3"	628 mm	24.7"
Bucket	1	110 mm	4.3"	452 mm	17.8"
Steering	2	55 mm	2.2"	375 mm	14.8"

Hydraulic cycle time (rated load in bucket)

, ,	
Raise	. 5.8 sec
Dump	. 1.1 sec
Lower (empty)	. 3.6 sec
Total cycle time	10.5 sec

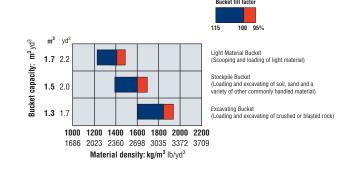


SERVICE REFILL CAPACITIES

Cooling system	4.5 U.S. gal
Fuel tank	35.1 U.S. gal
Engine	3.3 U.S. gal
Hydraulic system	12.4 U.S. gal
Front axle	3.7 U.S. gal
Rear axle	3.8 U.S. gal
Transmission	1.2 U.S. gal



BUCKET SELECTION GUIDE





B H 46 D T E F

							m	ım ft.in
		16.9-24-	10PR(L2)	14.00-24	-12PR(L2)	15.5-25-8PR(L2)	17.5-25-1	2PR(L2)
	Tread	1780	5'10"	1780	5'10"	1780 5'10"	1780	5'10"
	Width over tires	2250	7'5"	2185	7'2"	2180 7'2"	2220	7'3"
Α	Wheelbase	2600	8'6"	2600	8'6"	2600 8'6"	2600	8'6"
В	Hinge pin height at max. height	3485	11'5"	3510	11'6"	3475 11'5"	3510	11'6"
С	Hinge pin height at carry position	360	1'2"	355	1'2"	360 1'2"	355	1'2"
D	Ground clearance	400	1'4"	425	1'5"	390 1'3"	425	1'5"
Ε	Hitch height	800	2'7"	825	2'8"	790 2'7"	825	2'8"
F	Overall height, top of stack	2420	7'11"	2445	8'0"	2410 7'11"	2445	8'0"
G	Overall height, ROPS cab	3035	9'11"	3060	10'0"	3025 9'11"	3060	10'0"
Н	See Dumping Clearance Below							

Measured with 16.9-24-10PR (L2) tires

Bucket		e Bucket Cutting Edge		ng Bucket Cutting Edge	Light Material Bucket With Bolt-On Cutting Edge		
Bucket Capacity	Heaped	1.5 m³	2.0 yd ³	1.3 m³	1.7 yd ³	1.7 m³	2.2 yd ³
Ducket Gapacity	Struck	1.25 m³	1.6 yd ³	1.1 m³	1.4 yd ³	1.5 m³	2.0 yd ³
Bucket Width		2390 mm	7'10"	2390 mm	7'10"	2390 mm	7'10"
Bucket Weight		595 kg	1,312 lb	580 kg	1,279 lb	665 kg	1,466 lb
Static Tipping Load	Straight	6370 kg	14,043 lb	6410 kg	14,132 lb	6280 kg	13,845 lb
Static Tipping Load	40° full turn	5540 kg	12,213 lb	5570 kg	12,280 lb	5460 kg	12,037 lb
Dumping Clearance, maximum height and 45° dump angle (H)**		2705 mm	8'10"	2745 mm	9'0"	2630 mm	8'8"
Reach at 2130 mm 7' 45° dump angle**		1385 mm	4'7"	1365 mm	4'6"	1420 mm	4'8"
Reach at maximum height and 45° dump angle**	t	970 mm	3'2"	930 mm	3'1"	1045 mm	3'5"
Reach with arm horizontal and bucket level**		2055 mm	6'9"	1995 mm	6'6"	2160 mm	7'1"
Operating Height Fully raised		4630 mm	15'2"	4560 mm	15'0"	4710 mm	15'5"
Overall Length Bu	cket on Ground	6320 mm	20'9"	6260 mm	20'6"	6425 mm	21'1"
Turning Radius*		5185 mm	17'0"	5180 mm	17'0"	5225 mm	17'2"
Digging Depth	0°	90 mm	3.5"	90 mm	3.5"	90 mm	3.5"
Digging Depth	10°	255 mm	10.0"	245 mm	9.6"	270 mm	10.6"
Breakout Force		7400 kg	16,314 lb	8010 kg	17,659 lb	6530 kg	14,396 lb
Operating Weight		7425 kg	16,369 lb	7410 kg	16,336 lb	7495 kg	16,524 lb

^{*}Bucket at carry, outside corner of bucket. **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.

Weight Changes

	Change in		Change in Operating Weight						Width		Ground		Change in		Change in	
	Uperating	weignt	Stra	ignt	Full Turn		Over Tire		Clearance		Vertical Dimensions		Reach			
14.00-24-12PR (L2)	130 kg	287 lb	95 kg	209 lb	85 kg	187 lb	2185 mm	7'2"	425 mm	1'5"	25 mm	1.0"	–25 mm	-1.0"		
15.5-25-8PR (L2)	10 kg	22 lb	10 kg	22 lb	5 kg	11 lb	2180 mm	7'2"	390 mm	1'3"	-10 mm	-0.4"	10 mm	0.4"		
17.5-25-12PR (L2)	150 kg	331 lb	110 kg	243 lb	95 kg	209 lb	2220 mm	7'3"	425 mm	1'5"	25 mm	1.0"	−25 mm	-1.0"		
Install ROPS canopy (instead of cab)	-110 kg	-243 lb	-110 kg	-243 lb	-95 kg	-209 lb										
Additional counterweight	200 kg	441 lb	380 kg	838 lb	330 kg	728 lb										
Air conditioner	70 kg	154 lb	80 kg	176 lb	70 kg	154 lb										



- Alternator, 35A, 24 volt
- Axles, semi floating with torque proportioning
- Back-up alarm
- Back-up light, rear
- Batteries, 92 Ah/2 x 12 V,
- Bucket positioner, automatic
- Cab (ROPS/FOPS) with cigarette lighter/ash tray, dome light, floor mat, front (intermittent) and rear wiper/washer, rear view mirrors (2 outside, 1 inside), right hand and left hand door access with steps, sun visor
- Counterweight
- · Differentials, torque proportioning
- EMMS (Equipment Management Monitoring System)
 - —Gauges (Speedometer, engine water temperature, fuel level, HST oil temperature)
 - —LCD displays (filter/oil replacement time, HST selection, odometer, service meter, trouble shooting)

- —Lights (Axle oil temperature, battery charge, brake oil pressure, central warning, directional indicator, engine oil pressure, engine pre-heater, HST oil filter clogging, high beam, maintenance, parking brake reminder, parking brake warning, steering oil pressure, transmission speed range, turn signals)
- Engine, Komatsu SAA4D102E-2-B
- Engine shut-off system, electric
- Engine water separator
- Fan, hydraulic driven, swing out
- · Fenders, rear
- Hard water area arrangement (corrosion resister)
- Horn, electric
- · Lift cylinders and bucket cylinder
- Lifting eyes
- Lights
 - —Stop and tail
 - —Turn signal (2 front, 2 rear)
 - -Working (2 front, 2 rear, 2 outside cab)
- Loader linkage with standard lift boom

- Mono-lever loader control
- Parking brake, wet disc
- Radiator mask, hinged
- Seat belt, 3" wide
- Seat, rigid type, reclining with a document holder
- Service brakes, hydraulic, wet multi-disc, inboard
- Speedometer (km/h)
- Starting aid, intake manifold preheater
- Starting motor, 5.5 kW/24 V
- Steering wheel, tiltable
- Tires 16.9-24-10PR (L2), tubeless and rims
- Transmission (Hydrostatic with speed range select), automatic
- Transmission control, electric, steering column
- 2-spool valve for boom and bucket controls with PPC



- Air conditioner with heater/defroster/ pressurizer
- Alternator, 60A, 24V
- Auxiliary steering
- Boom kick-out
- Bucket, excavating, 1.3 m³ 1.7 yd³
- Bucket, stockpile, 1.5 m³ 2.0 yd³
- Bucket, light material, 1.7 m³ 2.2 yd³
- Bucket teeth, bolt-on
- Cold area arrangement
- Counterweight, additional
- Cutting edge, bolt-on, reversible
- ECSS (Electronically Controlled Suspension System)

- · Fenders, front
- Fenders, rear full
- Heater and defroster
- Hydraulic adapter kit (3rd spool), includes valve, lever, and piping
- Limited-slip differential, front and rear
- Radio, AM/FM
- Radio, AM/FM stereo with cassette
- Rims only, less tires
 —Fits 16.9 and 17.5-25 tire
- ROPS canopy
- Seat, cloth, suspension, reclining with armrests, headrest, and a document holder

- Seat, vinyl, suspension, reclining with armrests, headrest, and a document holder
- Seat belt, retractable, 3" wide
- Spare parts
- 3-spool valve, lever, piping
- Tires (bias ply)
 - —14.00-24-12PR (L2)
 - --15.5-25-8PR (L2)
- ---17.5-25-12PR (L2)
- Tool kit
- Vandalism protection kit

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