







VIBRATORY SINGLE DRUM ROLLER

The innovatively designed SV520 is applicable to medium to large soil compaction jobs. The SV520 includes new roller features and optimizes job profitability through efficiency.

Proven Compactive Performance

- Roller compactive force reaches target density in less number of roller passes.
- Provides higher centrifugal force and amplitude.
- Achieves uniform compaction throughout lift thickness.

Low Operating Costs

- Sakai's new *Eco compaction mode* (ECM), which reduces fuel consumption up to 20%, while maintaining compactive performance.
- Quality and durable components such as hydraulics, drum, center-pin hitch provide less maintenance.

Operator Comfort and Safety

- Includes Sakai's durable dual rubber isolation system between the drum and operator deck.
- Extremely quiet operator station with noise levels as low as 87 dB(A).



SV520T



SV520DF



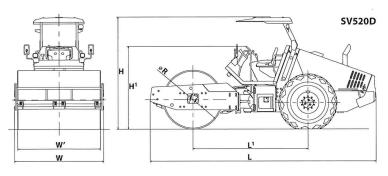
SV520TF

The photos may contain optional equipment and / or attachment.



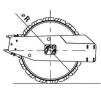
If you need any technical or service parts support on our products, please contact this web page.

SV520 Series

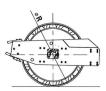




SV520T



SV520DF



SV520TF

YPE IODEL			Vibratory Single Drum Roller			
			SV520D	SV520T	SV520DF	SV520TF
HASSIS MODEL				25	/31	
WEIGHTS	Max. operating weight with AWNING	kg (lbs)	10,450 (23,040)	10,790 (23,790)	12,090 (26,655)	13,060 (28,795)
WEIGHIS	Operating weight with AWNING	kg (lbs)	10,360 (22,840)	10,700 (23,590)	12,000 (26,460)	12,970 (28,595)
	Load on front axle - operating weight with AWNING	kg (lbs)	5,440 (11,995)	5,820 (12,835)	7,140 (15,745)	8,090 (17,840)
	Load on rear axle - operating weight with AWNING	kg (lbs)	4,920 (10,850)	4,880 (10,760)	4,860 (10,715)	4,880 (10,760)
PERFORMANCE	Centrifugal force (L / H)	kN (lbs) [kgf]	172 / 255 (38,665 / 57,325) [17,540 / 26,000]			
	Frequency (L / H)	Hz (vpm)	33.3 / 28.3 (2,000 / 1,700)			
	Amplitude (L / H)	mm (in)	1.02 / 2.09 (0.040 / 0.082)	0.95 / 1.94 (0.037 / 0.076)	0.73 / 1.50 (0.029 / 0.059)	0.62 / 1.27 (0.024 / 0.050)
	Dynamic linear pressure for front drum - operating weight with AWNING (L / H)	N/cm (lbs/in)	1,058 / 1,447 (600 / 825)			1,180 / 1,569 (670 / 895)
	Number of speed shifts		2			
	Speed range (L / H)	km/h (mph)		0-6/0-10(0)-3.7 / 0-6.2)	
	Gradeability	% (°)	62	(32)	54 (28)	49 (26)
	Turning radius compacted surface (inside / outside)	m (in)		3.5 (138)	/ 5.6 (221)	
DIMENSIONS	Overall length L	mm (in)	5,840 (230)			
	Overall width W	mm (in)	2,295 (90)			
	Overall height (without AWNING) H1	mm (in)	2,190 (86)	2,175 (86)	2,195 (86)	2,180 (86)
	Overall height (with AWNING) H	mm (in)	2,910 (115)	2,925 (115)	2,945 (116)	2,935 (116)
	Wheelbase L ¹	mm (in)	, , , , , , , , , , , , , , , , , , , ,) (117)	
	Compaction width W '	mm (in)	2,130 (84)			
	Drum width W' / Drum diameter R	mm (in)	2,130 / 1,530 (84 / 60)	2,130 / 1,600 (84 / 63)	2,130 / 1,708 (84 / 67)	2,130 / 1,650 (84 / 65)
	Pad height	mm (in)	_	100 (4)	75 (3)	100 (4)
	Number of pads	pcs.	_	140	160	140
	Shell thickness	mm (in)	25 (1.0)	22 (0.9)	25 (1.0)	22 (0.9)
	Tire size x Number of tires		23.1 - 26 - 8 PR (OR) x 2			
	Inflation (each wheels)	kPa (psi)	137 (19.9)			
	Ground clearance	mm (in)	405 (16) 390 (15) 400 (16)			
	Curb clearance	mm (in)	500 (20)	520 (20)	555 (22)	535 (21)
	Side clearance	mm (in)	555 (25)		5 (3)	555 (2.7)
ENGINE			ISUZU			
	Model		4BG1T (EPA Tier2 : equivalent)			
	Type		Diesel, water-cooled, 4-cycle, 4-cylinder inline, with turbo charger			
	Displacement	L(cu.in)	4.329 (264.2)			
	Rated output	kW (HP)/min-1	83.3 (112) / 2,100			
	Electric system battery	V (V / Ah x Qty)	24V (12V / 100 x 2)			
	Electric system alternator	V/A	24V / 50A			
	Power transmission type	- V//	Hydrostatic			
	Drive wheel		All wheel (drum & tires)			
	Power transmission type		Hydraulic			
SYSTEM	Number of amplitude		2			
			Single eccentric shaft			
BRAKE SYSTEM	Vibrator type		Dynamic braking through hydrostatic drive system / FNR lever			
			Hydrostatic + Spring applied hydraulically released type (SAHR) / Brake pedal			
	Secondary brake (Emergency brake)		SAHR / Panel button			
	Parking brake					
	Power transmission type	. (0)	Hydraulic			
FLUID CAPACITY	Articulation / Oscillation angle	± (°)	37/9			
		L (gal)	210 (55.5)			
	Hydraulic oil tank	L (gal)	50 (13.2)			

^{*} Using low quality fuel may cause engine failure.



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Specified figures have a tolerance of ±5%.
All specifications may be changed without notice.
Specified figures are in SI Units, followed by their equivalent in English units of measurement in parentheses.

[•] Max. operating weight: Fuel=100%, Water=100%, Operator=75 kg Operating weight: Fuel=50%, water=50%, operator=75 kg
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