



SW521D Smooth Drum

VIBRATORY SINGLE DRUM ROLLER

The SV521 series rollers are the seventh (7th) generation of SAKAI's reputable 10-ton class vibratory single drum rollers and are further refined for better use. They are widely applicable to medium and heavy soil compaction works and the most suitable drum type can be selected from four (4) drum variations.

Proven Vibratory Compaction Performance

- High amplitude (2.05 mm for SV521D)
- High centrifugal force (26 tons)
- High density and uniform compaction throughout the layer

Excellent Traction

• All-wheel (drum and tires) drive system for all SV521 models (standard equipment)

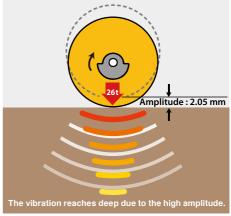
Economical Operation & Low Maintenance Costs

- Fuel saving ECO Compaction Mode as a standard equipment
- Durable and high quality components for prolonged service intervals as well as low maintenance costs

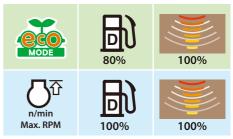
Operator Comfort & Safety

- Sakai's original shock absorbing system for better vibration isolation and longer parts life
- Increased safety by an emergency pedal brake in addition to the conventional service and parking brakes
- Complete vandalism protections devices

SERVICE HOTLINE If you need any technical or service parts support on our products, please contact this web page. **WWW.Sakainet.co.jp/en/**



Powerful Vibration & High Amplitude



ECO Compaction Mode

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Durable Instrument Panel & Brake Pedal



Standard : AWNING Option : ROPS-Canopy, Enclosed Cabin Enclosed ROPS-Cabin



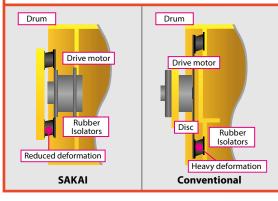
Powerful Compaction Force & High Amplitude

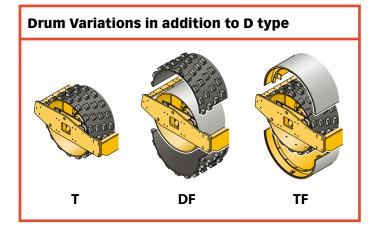
For SV521D

- Total applied force : 31.8 tons
- Centrifugal force : 26 tons
- High amplitude : 2.05 mm

*ECO Compaction Mode is standard.

Unique Shock Absorbing Design for better isolation and prolonged parts life (4–5 times longer)







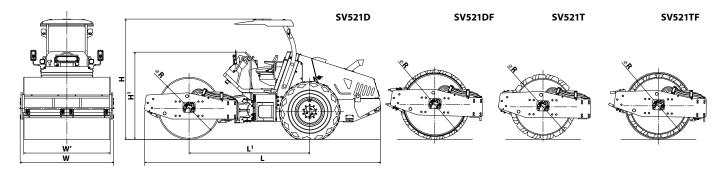
Tool Box in







SV521 Series



TYPE MODEL			Vibratory Single Drum Roller			
			SV521D	SV521DF *1	SV521T	SV521TF*2
DRUM TYPE			Smooth Drum	Combi. Drum	Padfoot Drum	Combi. Drum
	Max. operating weight with AWNING	kg (lbs.)	10,325 (22,765)	11,965 (26,380)	10,665 (23,515)	12,935 (28,520)
	Operating weight with AWNING	kg (lbs.)	10,235 (22,565)	11,875 (26,180)	10,575 (23,315)	12,845 (28,320)
	Load on front axle - operating weight with AWNING	kg (lbs.)	5,800 (12,790)	7,505 (16,550)	6,180 (13,625)	8,440 (18,610)
	Load on rear axle - operating weight with AWNING	kg (lbs.)	4,435 (9,780)	4,370 (9,635)	4,395 (9,690)	4,405 (9,715)
	Static Linear Pressure(drum) - operating weight with AWNING	kg/cm (lbs./in.)	27.2 (150)	-	-	39.6 (220)
	Centrifugal force (L / H)	kN (lbs.) [kgf]	150 (33,720) [15,300] / 255 (57,325) [26,000]			
	Frequency @ low amplitude/high amplitude	Hz (vpm)	33.3 (2,000) / 28.8 (1,730)			
	Amplitude (L / H)	mm (in)	0.87 (0.034) 2.05 (0.081)	0.62 (0.024) 1.47 (0.058)	0.81 (0.032) 1.90 (0.075)	0.53 (0.021) 1.25 (0.049)
	Number of speeds: Speed range (L / H)	km/h (mph)		2 speeds: 0–6 (0–	3.7) / 0–10 (0–6.2)	
	Gradeability	% (°)	63% (32°)	56% (29°)	63% (32°)	49% (26°)
	Turning radius at compacted surface (inner / outer)	m (in)		3.4 (134)	/ 5.6 (221)	
	Overall length L	mm (in)	5,810 (229)			
	Overall width W	mm (in)	2,300 (91)			
	Overall height (without AWNING) H ¹	mm (in)	2,160 (85)	2,195 (86)	2,165 (85)	2,180 (86)
	Overall height (with AWNING) H	mm (in)	2,960 (117)	2,995 (118)	2,975 (117)	2,985 (118)
	Wheelbase L ¹	mm (in)			(117)	
	Compaction width W'	mm (in)	2,130 (84)			
	Drum width W' x Drum diameter R	mm (in)	2,130 x 1,530 (84 x 60)	2,130 x 1,708 (84 x 67)	2,130 x 1,600 (84 x 63)	2,130 x 1,650 (84 x 65)
	Pad height	mm (in)	_	75 (3)	100) (4)
	Number of pads	pcs.		160	14	40
	Shell thickness	mm (in)	25 (1.0) 22 (0.9)			
	Tire size x Number of tires		23.1 - 26 - 8PR (OR) x 2			
	Ground clearance	mm (in)	400 (16)	370 (15)	390 (15)	380 (15)
	Curb clearance	mm (in)	500 (20)	555 (22)	520 (20)	535 (21)
	Side clearance	mm (in)	85 (3)			
ENGINE	Make & Model		Isuzu "4BG1T" (EPA-Tier 2: equivalent)			
	Туре		Water-cooled, 4-cycle, 4-cylinder, overhead valve, direct injection type diesel engine with turbocha			
	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)	24 V (12 V / 80 Ah, 655 CCA x 2 pcs.)			
	Electric system - alternator	V/A	24 V / 50 A			
DRIVE SYSTEM	Power transmission type		Hydrostatic transmission			
	Drive wheels		Drum and tires			
	Power transmission type		Hydrostatic transmission			
SYSTEM	Number of amplitudes		2			
	Vibrator type		Single eccentric shaft type			
BRAKE SYSTEM	Service brake (primary brake)		Hydrostatic, dynamic brake (FNR lever)			
	Parking brake (secondary brake)		Spring applied, hydraulically released type multi-disc brake (Brake button)			
	Emergency brake		Hydrostatic + Spring applied, hydraulically released type multi-disc brake (Brake batton)			
STEERING SYSTEM						
	<u></u>	. (0)	Hydraulic type (articulated)			
	Articulation / Oscillation angle	± (°)	±37°/±9°			
FLUID CAPACITY		L (gal.)	215 (56.8)			
	Hydraulic oil tank	L (gal.)	50 (13.2)			

• Specified figures are in SI Units, followed by their equivalent English units of measurement in ().

* Using low quality fuel may cause engine failure.

Standard Equipment :

● Instruments ● Gauges ● ECO MODE ● Scrapers for both directions

• Backup alarm • Horn • AWNING • Comfort seat

• Front-facing working lights (2 pcs.) • Rear-facing working lights (2 pcs.)

Mirrors • 4 points lifting • Accessory socket (24 V) • Safety steps

Vandalism protection

Optional Equipment:

Enclosed CABIN Enclosed ROPS-Cabin w/seat belt ROPS-Canopy w/seat belt

• The photos may contain optional equipment and/or attachment.

• Air conditioner • Deluxe seat • Turn signal lamp • Combi. lamp

• Rotary beacon • Pad locks for vandalism protection • Filter kit for 1000hrs

2019.09B©



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FACSIMILE:

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