

Series



SV521D
Smooth Drum

VIBRATORY SINGLE DRUM ROLLER

The SV521 series are the 7th generation of SAKAI's reputable 10-ton class vibratory single drum roller. The SV621 series are the 13-ton class vibratory single drum roller applicable to heavier soil compaction works. SAKAI genuine cabin specifically designed for SV Series protects operator from severe weather and dust at construction site. It certainly ensures operator comfort.

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

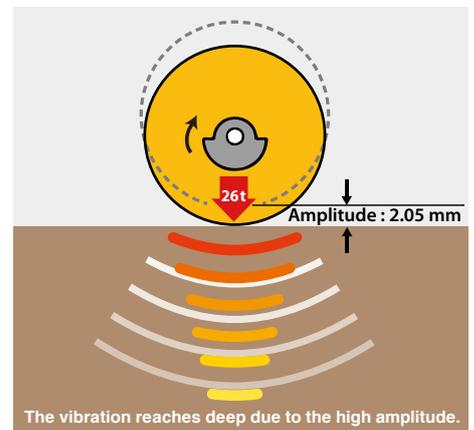
- All-wheel (drum and tires) drive system as a standard equipment

Economical Operation & Low Maintenance Costs

- Fuel saving ECO Compaction Mode as a standard equipment
- Durable and high quality components for prolonged service interval 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 protection devices



Powerful Vibration & High Amplitude

 eco MODE	 80%	 100%
 n/min Max. RPM	 100%	 100%

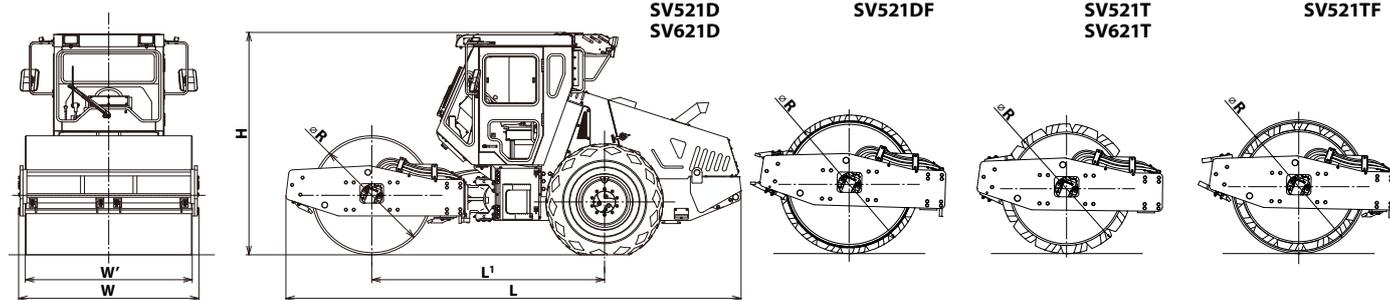
ECO Compaction Mode

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

www.sakainet.co.jp/en/

The photos may contain optional equipment and/or attachment.

SV521 • 621 Series



TYPE		Vibratory Single Drum Roller						
MODEL		SV521D	SV521DF *1	SV521T	SV521TF *2	SV621D	SV621T	
DRUM TYPE		Smooth Drum	Combi. Drum	Padfoot Drum	Combi. Drum	Smooth Drum	Padfoot Drum	
WEIGHTS	Max. operating weight with CABIN	kg	10,810	12,450	11,150	13,420	13,110	13,455
	Operating weight with CABIN	kg	10,720	12,360	11,060	13,330	13,020	13,365
	Load on front axle - operating weight with CABIN	kg	5,965	7,670	6,345	8,605	7,385	7,775
	Load on rear axle - operating weight with CABIN	kg	4,755	4,690	4,715	4,725	5,635	5,590
	Static Linear Pressure (drum) - operating weight with CABIN	kg/cm	28	-	-	40.4	34.7	-
PERFORMANCE	Centrifugal force (L / H)	kN (kgf)	150 (15,300) / 255 (26,000)					
	Frequency @ low amplitude/high amplitude	Hz (vpm)	33.3 (2,000) / 28.8 (1,730)					
	Amplitude (L / H)	mm	0.87 / 2.05	0.62 / 1.47	0.81 / 1.90	0.53 / 1.25	0.86 / 2.03	0.80 / 1.89
	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°)	50% (26°)	61% (31°)	46% (24°)	49% (26°)	47% (25°)
DIMENSIONS	Turning radius at compacted surface (inner / outer)	m	3.4 / 5.6					
	Overall length L	mm	5,810					
	Overall width W	mm	2,300					
	Overall height (without CABIN) H ¹	mm	2,160	2,195	2,165	2,180	2,160	2,165
	Overall height (with CABIN) H	mm	2,860	2,885	2,865	2,870	2,860	2,865
	Wheelbase L ¹	mm	2,970					
	Compaction width W ¹	mm	2,130					
	Drum width W ¹ x Drum diameter R	mm	2,130 x 1,530	2,130 x 1,708	2,130 x 1,600	2,130 x 1,650	2,130 x 1,530	2,130 x 1,600
	Pad height	mm	-	75	100	-	-	100
	Number of pads	pcs.	-	160	140	-	-	140
	Shell thickness	mm	25		22		25	22
	Tire size x Number of tires		23.1-26-8PR(OR) x 2					
	Ground clearance	mm	400	370	390	380	400	390
	Curb clearance	mm	500	555	520	535	500	520
Side clearance	mm	85						
ENGINE	Make & Model	Isuzu "4BG1T" (EPA-Tier 2: equivalent)						
	Type	Water-cooled, 4-cycle, 4-cylinder, overhead valve, direct injection type diesel engine with turbo charger						
	Displacement	L	4.329					
	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 x 2 pcs.)					
DRIVE SYSTEM	Electric system - alternator	V / A	24 V / 50 A					
	Power transmission type		Hydrostatic transmission					
VIBRATION SYSTEM	Drive wheels		Drum and tires					
	Power transmission type		Hydrostatic transmission					
	Number of amplitudes		2					
BRAKE SYSTEM	Vibrator type		Single eccentric shaft type					
	Service brake (primary brake)		Hydrostatic, dynamic brake (FNR lever)					
	Parking brake (secondary brake)		Spring applied, hydraulically released type multi-disc brake (Brake button)					
STEERING SYSTEM	Emergency brake		Hydrostatic + Spring applied, hydraulically released type multi-disc brake (Brake pedal)					
	Type		Hydraulic type (articulated)					
FLUID CAPACITY	Articulation / Oscillation angle	± (°)	±37° / ±9°					
	Fuel tank	L (gal.)	215 (56.8)					
	Hydraulic oil tank	L (gal.)	50 (13.2)					

*1) Refer the specifications of D for DF without padfoot shells.
*2) Refer the specifications of T for TF without smooth shells.

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

- Max. operating weight : Fuel=100%, Water=100%, Operator=75 kg
- Operating weight : Fuel=50%, Water=50%, Operator=75 kg
- The photos may contain optional equipment and/or attachment.

* Using low quality fuel may cause engine failure.



ISO9001 certified Tokyo Head Office,
Tokyo Factory, Global Service Division,
Technical Development Division.

SAKAI HEAVY INDUSTRIES, LTD.

HEAD OFFICE: 1-4-8, SHIBA DAIMON, MINATO-KU, TOKYO JAPAN
TELEPHONE: +81-3-3431-9971
FACSIMILE: +81-3-3436-6212