

**SAKAI®**

# SV700

Series



**SV700D**

## VIBRATORY SINGLE DRUM ROLLER

The innovatively designed SV700 is applicable to medium to large soil compaction jobs. The SV700 includes new roller features and optimizes job profitability through efficiency.

### Best Compaction Quality and Efficiency

- The amplitude of the largest in the world class carries out greatest compaction.

### High Safety Standards

- Built in safety features prevent accidental starting, starts only when the Forward, Neutral & Reverse lever is in the neutral position and press down the parking brake switch.
- Emergency brake pedal is standard.

### Easy Maintenance

- The engine and hydraulic components are enclosed in a compartments.
- The engine hood opens fully for easy access to engine and hydraulic components for service and maintenance.

### Operator Comfort and Safety

- Include Sakai's durable dual rubber isolation system between the drum and operator deck.



**SV700T**



**SV700TF**

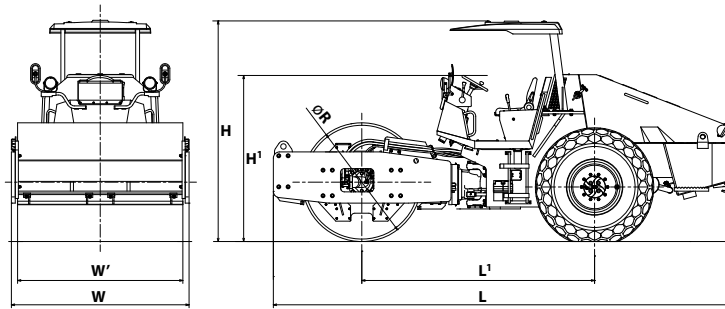
The photos may contain optional equipment and/or attachment.



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# SV700 Series



TYPE		Vibratory Single Drum Roller			
MODEL		SV700D	SV700T	SV700TF	
CHASSIS MODEL		VSV19D	VSV19T		
<b>WEIGHTS</b>	Max. operating weight with AWNING	kg (lbs)	15,080 (33,245)	18,080 (39,860)	
	Operating weight with AWNING	kg (lbs)	14,950 (32,960)	17,950 (39,570)	
	Load on front axle - operating weight with AWNING	kg (lbs)	8,500 (18,740)	11,400 (25,130)	
	Load on rear axle - operating weight with AWNING	kg (lbs)	6,450 (14,220)	6,550 (14,440)	
<b>PERFORMANCE</b>	Centrifugal force (L / H)	kN (lbs)[kgf]	220 / 275 (49,455 / 61,820) [22,435 / 28,040]		
	Frequency (L / H)	Hz(vpm)	36.7 / 27.5 (2,200 / 1,650)		
	Amplitude (L / H)	mm (in)	0.90 / 2.00 (0.035 / 0.079)	0.60 / 1.30 (0.024 / 0.051)	
	Dynamic linear pressure for front drum - operating weight with AWNING (L / H)	N/cm (lbs/in)	1,424 / 1,682 (815 / 960)	-	1,558 / 1,816 (890 / 1,035)
	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)	45 (24)	
	Turning radius compacted surface (inside / outside)	m (in)	3.5 / 5.6 (138 / 221)		
	Overall length <b>L</b>	mm (in)	5,900 (232)	5,905 (232)	5,910 (233)
	Overall width <b>W</b>	mm (in)	2,290 (90)		
<b>DIMENSIONS</b>	Overall height (without AWNING) <b>H<sup>1</sup></b>	mm (in)	2,150 (85)	2,160 (85)	2,175 (86)
	Overall height (with AWNING) <b>H</b>	mm (in)	2,840 (112)	2,860 (113)	2,870 (113)
	Wheelbase <b>L<sup>1</sup></b>	mm (in)	3,000 (118)		
	Compaction width <b>W'</b>	mm (in)	2,130 (84)		
	Drum width <b>W'</b> / Drum diameter <b>R</b>	mm (in)	2,130 / 1,530 (84 / 60)	2,130 / 1,600 (84 / 63)	2,130 / 1,650 (84 / 65)
	Pad height	mm (in)	-	100 (3.9)	
	Number of pads	pcs.	-	140	
	Shell thickness	mm (in)	32 (1.3)	28 (1.1)	22 (0.9)
	Tire size x Number of tires		23.1-26-12PR(OR)		
	Inflation (each wheels)	kPa (psi)	170 (24.7)		
	Ground clearance	mm (in)	420 (16.5)	430 (16.9)	435 (17.1)
	Curb clearance	mm (in)	495 (19.5)	530 (20.9)	540 (21.3)
	Side clearance	mm (in)	80 (3.1)		
	<b>ENGINE</b>	Make	ISUZU		
		Model	BB-6BG1TRJ (EPA Tier 2 : equivalent)		
Type		Diesel, water-cooled, 4-cycle, 6-cylinder inline, with turbo charger			
Displacement		L(cu.in)	6.494 (396.3)		
Rated output		kW (HP)/min <sup>-1</sup>	124 (166) / 2,200		
Electric system battery		V (V / Ah×Qty)	24V (12V / 100Ah × 2)		
Electric system alternator		V/A	24V / 50A		
<b>DRIVE SYSTEM</b>		Power transmission type	Hydrostatic		
	Drive wheel	All wheel (drum & tires)			
<b>VIBRATION SYSTEM</b>	Power transmission type	Hydraulic			
	Number of amplitude	2			
<b>BRAKE SYSTEM</b>	Vibrator type	Single eccentric shaft			
	Service brake	Dynamic braking through hydrostatic drive system / FNR lever			
	Secondary brake (Emergency brake)	Hydrostatic + Spring applied hydraulically released type (SAHR) / Brake pedal			
<b>STEERING SYSTEM</b>	Parking brake	SAHR / Panel button			
	Power transmission type	Hydraulic			
<b>FLUID CAPACITY</b>	Articulation / Oscillation angle	± (°)	37 / 6.5		
	Fuel tank	L (gal)	300 (79.3)		
	Hydraulic oil tank	L (gal)	62 (16.5)		

● 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=75kg

● Operating weight : Fuel=50%, water=50%, operator=75kg

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

\* Using low quality fuel may cause engine failure.

#### Standard Equipment:

- AWNING ● Instrument panel ● Gauges ● Backup alarm ● Horn
- Working lights ● Mirrors ● Scrapers for both directions
- Comfort seat ● 4 points lifting

#### Optional Equipment:

- CABIN ● Air conditioner ● Heater ● Deluxe seat ● Rotary beacon
- Vandalism protections ● CCV



SAKAI HEAVY INDUSTRIES, LTD. obtain the certification of quality management system ISO9001.

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