

# **SV700 Series**

## ***Vibrating Roller***

High performance with safe operation and riding comfort.  
Optimum choice for large scale projects and thick lift compaction.



**SV700D**  
Smooth drum  
Operating weight: 15.0 ton  
(33,100 lbs.)

The above photo(s) may contain option equipments and/or attachments.

# **SAKAI®**

# JOB-PROVEN VIBRATORY PERFORMANCE RESPONDS TO VARIOUS TYPES OF MATERIAL.

## Features

### ☆ Excellent performance

- Well-balanced front and rear weight distribution contributes to excellent traction and slope climbing ability.
- The amplitude of the largest in the world class carries out greatest compaction.
- Two basic drum types are available; smooth drum and padfoot drum.
- An optimal selection of drum type and setting of dual -frequency dual -amplitude vibration system allows the SV700 roller to handle different types of material efficiently under a wide variety of working conditions.
- The hydrostatic transmission offers variable speed ranges and an ideal speed is easily selected for either working or transit.
- The traveling capacity on soft land is improved by the oil flow valve device.

### ☆ Easy operation and riding comfort

- Despite powerful vibration, the chassis and operation are fully protected from vibration thanks to SAKAI's patented, unique vibration isolation system.
- Due to the rubber isolator mounted operator deck, the operator's riding comfort is excellent, and electrical instruments and gauge are free from vibration.
- The vibration ON-OFF switch located on the forward-reverse lever facilitates timely vibration control.
- All control and instruments are ergonomically arranged in order to reduce operator fatigue.
- A cushioned, adjustable bucket seat is standard.

### ☆ High safety standards

- The roller is equipped with dual independent braking systems. The primary brake is hydrostatic and applied through putting the forward-reverse lever in its "NEUTRAL" position. The three-way secondary braking systems is a mechanical spring-applied, hydraulically released type (SAHR) that can be operated either through a push button or pedal or automatically through engine or hydraulic system failure.
- The overall machine design provides the operator with excellent all-around visibility. (1m x 1m)

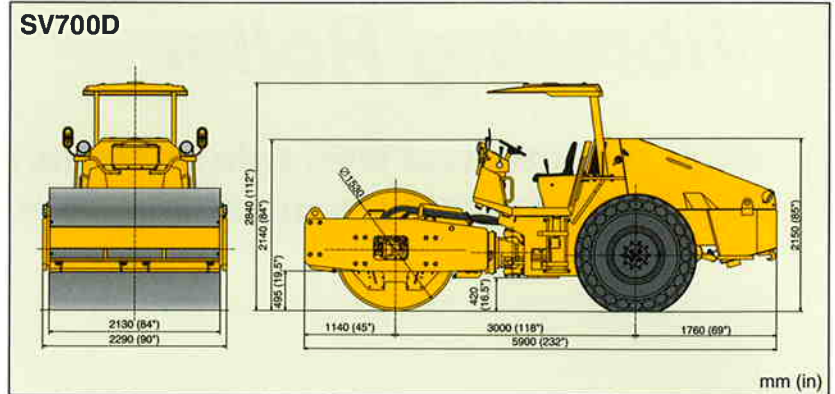
### ☆ Excellent serviceability

- 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.
- Large ball bearing and taper bearings are employed in the center pin mechanism to prolong service life and lubrication intervals.
- The vibrator bearing lubrication system keeps lubricating bearing even during hillside operation.

### ☆ Standard equipment

- Standard equipment includes instruments, gauges, scrapers for both directions, back-up alarm, horn and canopy.

## Dimensions



## Specifications

MODEL	SV700D		SV700T	
<b>WEIGHTS</b>				
Gross weight	kgf (lbs)	15,000 (33,069)	15,000 (33,069)	15,000 (33,069)
Load on front	kgf (lbs)	8,500 (18,739)	8,500 (18,739)	8,500 (18,739)
Load on rear	kgf (lbs)	6,500 (14,330)	6,500 (14,330)	6,500 (14,330)
<b>DIMENSIONS</b>				
Overall length	mm (in)	5,900 (232")	5,900 (232")	5,900 (232")
Overall width	mm (in)	2,290 (90")	2,290 (90")	2,290 (90")
Overall height				
without awning	mm (in)	2,150 (85")	2,160 (85")	2,160 (85")
with awning	mm (in)	2,840 (112")	2,860 (111")	2,860 (111")
Wheelbase	mm (in)	3,000 (118")	3,000 (118")	3,000 (118")
Rolling width	mm (in)	2,130 (84")	2,130 (84")	2,130 (84")
Ground clearance	mm (in)	420 (16.5")	430 (16.9")	430 (16.9")
Curb clearance	mm (in)	495 (19.5")	530 (20.9")	530 (20.9")
<b>SPEEDS (F &amp; R)</b>				
1ST	km/h (mph)	0 - 6 (0 - 3.7)		
2ND	km/h (mph)	0 - 10 (0 - 6.2)		
<b>VIBRATING POWER</b>				
Frequency	Hz (vpm)	L 36.7 (2,200)	H 275 (1,650)	L 36.7 (2,200)
Centrifugal force (Max.)	kN (kgf)	220 (22,400)	275 (28,000)	220 (22,400)
	lbs	49,383	61,729	49,383
Amplitude	mm (in)	0.9	2	0.9
<b>MIN. TURNING RADIUS</b>	m (in)	5.6 (221)		
<b>GRADABILITY</b>	% (deg.)	62 (32)		
<b>ENGINE</b>				
Model		Isuzu "BB-6BG1TRJ" Diesel Engine with turbo charger, Water-cooled, 4-cycle, 6-cylinder in-line, vertical mounted, overhead valve, direct injection type		
Type		6,494 (396)		
Piston displacement	L (cu.in.)	124 (169) / 2200		
Rated output	kW (PS)/min <sup>-1</sup>	24V (12V-100Ah x 2)		
Battery				
<b>POWER LINE</b>				
Transmission		Hydrostatic transmission		
Differential		Auto lock type		
Final drive		Planetary gear		
<b>VIBRATION SYSTEM</b>				
Transmission		Hydrostatic transmission		
Vibrator		Eccentric shaft type		
<b>BRAKE SYSTEM</b>				
Service brake		Hydrostatic and mechanical type		
Parking brake		Mechanical type		
<b>STEERING SYSTEM</b>		Hydrostatic type (Articulated type)		
<b>ROLLS</b>				
Use	Front: roll Rear: tire No. of tires	Vibrate & Drive Drive 2		
<b>Dimensions</b>				
Front roll: width x dia.	mm (in)	2,130 x 1,530 (84" x 60")	2,130 x 1,600 (84" x 63")	2,130 x 1,600 (84" x 63")
Number of pads		-	140	140
Pad height	mm(in)	-	100 (4")	100 (4")
Tire size		23.1-26-12PR(OR)		
<b>Suspension system</b>				
Front: roll		Rubber damper type		
Rear: tire		Rigid		
<b>FLUID CAPACITY</b>				
Fuel tank	Liter (gal)	300 (79.3)		
Hydraulic oil tank	Liter (gal)	62.4 (16.5)		

\* Specifications are subject to change without notice.

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