

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
Gross weights 15 ton
(33,100 lb)

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

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)

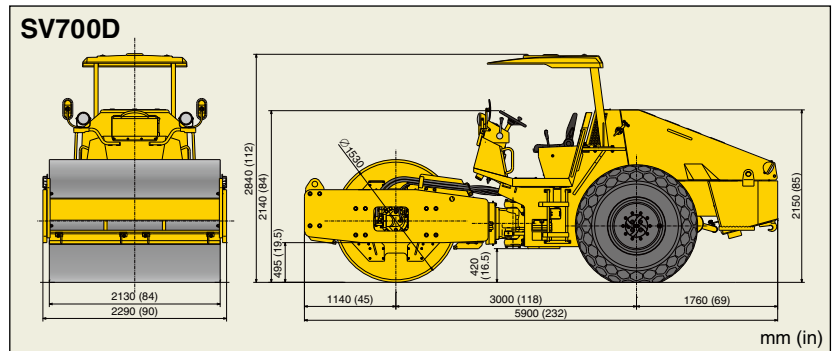
☆ Excellent serviceability

- 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		SV700TF	
WEIGHTS						
Gross weight	kg (lb)	15,000 (33,069)	15,000 (33,069)	15,000 (33,069)	18,000 (39,680)	
Load on front	kg (lb)	8,500 (18,739)	8,500 (18,739)	8,500 (18,739)	11,400 (25,130)	
Load on rear	kg (lb)	6,500 (14,330)	6,500 (14,330)	6,500 (14,330)	6,600 (14,550)	
DIMENSIONS						
Overall length	mm (in)	5,900 (232)	5,905 (232)	5,910 (233)	5,910 (233)	
Overall width	mm (in)	2,290 (90)	2,290 (90)	2,290 (90)	2,290 (90)	
Overall height without AWNING	mm (in)	2,150 (85)	2,160 (85)	2,175 (86)	2,175 (86)	
with AWNING	mm (in)	2,840 (112)	2,860 (111)	2,870 (113)	2,870 (113)	
Wheelbase	mm (in)	3,000 (118)	3,000 (118)	3,000 (118)	3,000 (118)	
Rolling width	mm (in)	2,130 (84)	2,130 (84)	2,130 (84)	2,130 (84)	
Ground clearance	mm (in)	420 (16.5)	430 (16.9)	435 (17.0)	435 (17.0)	
Curb clearance	mm (in)	495 (19.5)	530 (20.9)	540 (21.0)	540 (21.0)	
SPEED (F & R)						
1st	km / h (mph)	0 - 6 (0 - 3.7)				
2nd	km / h (mph)	0 - 10 (0 - 6.2)				
VIBRATING POWER		L	H	L	H	L
Frequency	Hz (vpm)	36.7 (2,200)	27.5 (1,650)	36.7 (2,200)	27.5 (1,650)	36.7 (2,200)
Centrifugal force (Max)	kN (kgf)	220 (22,400)	275 (28,000)	220 (22,400)	275 (28,000)	220 (22,400)
Amplitude	mm	49,383	61,729	49,383	61,729	49,383
	lb	0.9	2	0.9	2	0.6
	mm	0.9	2	0.9	2	0.6
	mm	0.9	2	0.9	2	0.6
MIN. TURNING RADIUS	m (in)	5.6 (221)				
GRADABILITY	% (°)	62 (32)		45 (24)		
ENGINE						
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						
Piston displacement	L (cu.in)	6,494 (396)				
Rated output	kW (PS) / min ⁻¹	124 (169) / 2200				
Battery		24V (12V-100 Ah x 2)				
POWER LINE						
Transmission		Hydrostatic transmission				
Differential		Auto lock type				
Final drive		Planetary gear				
VIBRATING SYSTEM						
Transmission		Hydrostatic transmission				
Vibrator		Eccentric shaft type				
BRAKE SYSTEM						
Service brake		Hydrostatic and mechanical type				
Parking brake		Mechanical type				
STEERING SYSTEM		Hydraulic type (Articulated type)				
ROLL & TIRES						
Use	Front: roll Rear: tire No. of tires	Vibrate & Drive Drive 2				
Dimensions						
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 1,650 (84 x 65)	2,130 x 1,650 (84 x 65)	
Number of pads		140				
Pad height	mm (in)	100 (4)				
Tire size		23.1 - 26 - 12PR (OR)				
Suspension system		Rubber damper type				
Front: roll		Rigid				
Rear: tire		Rigid				
FLUID CAPACITY						
Fuel tank	L (gal)	300 (79.3)				
Hydraulic oil tank	L (gal)	62.4 (16.5)				

ISO 9001 BUREAU VERITAS CERTIFICATION SAKAI HEAVY INDUSTRIES, LTD. obtain the certification of quality management system ISO9001.



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