

# **SV512 Series**

## ***Vibrating Roller***

Mighty vibrating roller drastically reduces operating costs in large scale earth-moving projects



**SV512D**  
Smooth drum  
Gross weights 10.5 ton  
(23,150 lb)



**SV512TF**  
Padfoot drum with  
removable smooth drum shell  
Gross weights 13 ton  
(28,660 lb)

# **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.
- Three basic drum types are available; smooth drum, padfoot drum and smooth-to-padfoot quick-change combination drum.
- An optimal selection of drum type and setting of dual-frequency dual-amplitude vibration system allows the SV512 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.

### ☆ Easy operation and riding comfort

- Despite powerful vibration, the chassis and operator 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 gauges 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 system 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 × 1m)

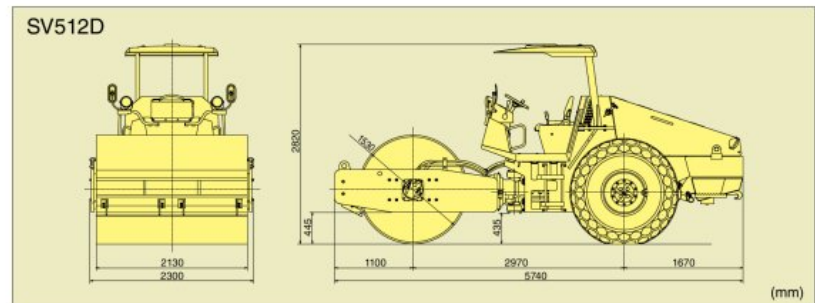
### ☆ Excellent serviceability

- The engine and hydraulic components are enclosed in a compartment. 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 bearings even during hillside operation.

### ☆ Standard equipment and many options

- Standard equipment includes instruments, gauges, scrapers for both directions, back-up alarm, horn, Bracket for ROPS CANOPY.
- Many options are available for factory or field kit installation. These include a CABIN and ROPS CANOPY.

## Dimensions



## Specifications

MODEL		SV512	SV512D	SV512T	SV512TF	SV512DF	
<b>WEIGHTS</b>							
Gross weight	kg (lb)	10,320 (22,755)	10,500 (23,148)	10,850 (23,920)	13,000 (28,660)	12,050 (26,570)	
Load on front	kg (lb)	5,270 (11,620)	5,450 (12,015)	5,800 (12,787)	7,950 (17,527)	7,150 (15,765)	
Load on rear	kg (lb)	5,050 (11,135)	5,050 (11,135)	5,050 (11,133)	5,050 (11,133)	4,900 (10,805)	
<b>DIMENSIONS</b>							
Overall length	mm (in)	5,740 (226)		5,760 (227)	5,750 (226)	5,785 (228)	
Overall width	mm (in)	2,300 ( 91)		2,300 ( 91)	2,300 ( 91)	2,300 ( 91)	
Overall height without AWNING	mm (in)	2,105 ( 83)		2,125 ( 84)	2,135 ( 84)	2,155 ( 85)	
with AWNING	mm (in)	2,820 (111)		2,825 (111)	2,835 (112)	2,850 (112)	
Wheelbase	mm (in)	2,970 (117)		2,970 (117)	2,970 (117)	2,965 (117)	
Rolling width	mm (in)	2,130 ( 84)		2,130 ( 84)	2,130 ( 84)	2,130 ( 84)	
Ground clearance	mm (in)	435 (17.0)		450 (17.5)	465 (18.5)	480 (19.0)	
Curb clearance	mm (in)	445 (17.5)		465 (18.5)	480 (19.0)	500 (19.5)	
<b>SPEED (F &amp; R)</b>							
1st	km / h (mph)	0 - 9 (0 - 5.6)		0 - 6 (0 - 3.7)			
2nd	km / h (mph)	—		0 - 10 (0 - 6.2)			
<b>VIBRATING POWER</b>							
		L	H	L	H	L	H
Frequency	Hz (vpm)	36.7 (2,200)	27.5 (1,650)	36.7 (2,200)	27.5 (1,650)	36.7 (2,200)	27.5 (1,650)
Centrifugal force	kN (kgf)	172 (17,500)	226 (23,000)	186 (19,000)	245 (25,000)	172 (17,500)	226 (23,000)
	lb	38.581	50,706	41,887	55,115	38,665	50,805
Amplitude	mm	0.90	2.00	0.90	2.00	0.60	1.40
<b>MIN. TURNING RADIUS</b> m (in)							
5.6 (221)							
<b>GRADABILITY</b> % ( °)							
		39 (21)	62 (32)		50 (27)	55 (29)	
<b>ENGINE</b>							
Model	Perkins "1104C-44TA" Diesel engine with turbo charger Water-cooled, 4-cycle, 4-cylinder in line, vertical mounted overhead valve, direct injection type						
Type							
Piston displacement L (cu.in)							
Rated output kW (HP) / min <sup>-1</sup>							
Battery	24V (12V-100 Ah×2)						
<b>POWER LINE</b>							
Transmission	Hydrostatic transmission						
Differential	Auto lock type						
Final drive	Planetary gear						
<b>VIBRATING 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>							
Hydraulic type (Articulated type)							
<b>ROLL &amp; TIRES</b>							
Use	Front: roll	Vibrate & Drive					
	Rear: tire						
	No. of tires	Drive					
		2					
<b>Dimensions</b>							
Front roll: width x dia.	mm	2,130×1,530		2,130×1,600	2,130×1,650	2,130×1,708	
	(in)	(84×60)		(84×63)	(84×65)	(84×67)	
Number of pads		—		140	140	160	
Pad height	mm (in)	—		100 (4)	100 (4)	75 (3)	
Tire size	23.1 - 26 - 8PR (OR)						
Suspension system	Rubber damper type						
Front: roll	Rigid						
Rear: tire							
<b>FLUID CAPACITY</b>							
Fuel tank	L (gal)	250 (66)					
Hydraulic oil tank	L (gal)	50 (13)					

\* Specifications are subject to change without notice.



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