

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 lbs)



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

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)

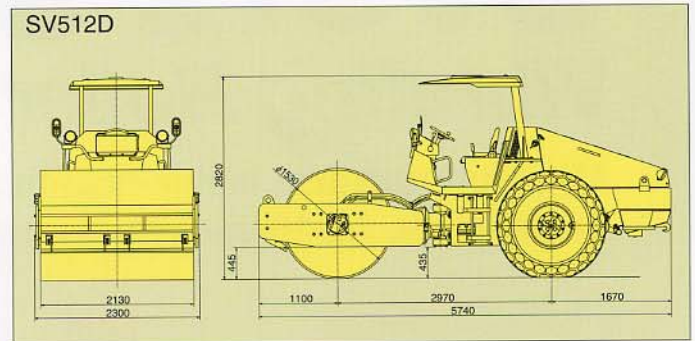
☆ Excellent serviceability

- 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 leveling blade, cabin and ROPS canopy.

Dimensions



Specifications

	SV512D	SV512T	SV512TF	
WEIGHTS				
Gross weight	kgf (lbs)	10,500 (23,148)	10,850 (23,920)	13,000 (28,660)
Load on front	kgf (lbs)	5,450 (12,015)	5,800 (12,787)	7,950 (17,527)
Load on rear	kgf (lbs)	5,050 (11,133)	5,050 (11,133)	5,050 (11,133)
DIMENSIONS				
Overall length	mm (in)	5,740 (226")	5,760 (227")	5,750 (226")
Overall width	mm (in)	2,300 (91")	2,300 (91")	2,300 (91")
Overall height without awning	mm (in)	2,105 (83")	2,125 (84")	2,135 (84")
with awning	mm (in)	2,820 (111")	2,825 (111")	2,835 (112")
Wheelbase	mm (in)	2,970 (117")	2,970 (117")	2,970 (117")
Rolling width	mm (in)	2,130 (84")	2,130 (84")	2,130 (84")
Ground clearance	mm (in)	435 (17.1")	450 (17.7")	465 (18.3")
Curb clearance	mm (in)	445 (17.5")	465 (18.3")	480 (18.9")
SPEED (F & R)				
1st	km / h (mph)	0 ~ 6 (0 ~ 3.7)		
2nd	km / h (mph)	0 ~ 10 (0 ~ 6.2)		
VIBRATING POWER				
Frequency	Hz (vpm)	L H 36.7 (2,200) 27.5 (1,650)	L H 36.7 (2,200) 27.5 (1,650)	L H 36.7 (2,200) 27.5 (1,650)
Centrifugal force (Max.)	kN (kgf)	172 (17,500) 226 (23,000)	186 (19,000) 245 (25,000)	186 (19,000) 245 (25,000)
	lbs	38,581 50,706	41,887 55,115	41,887 55,115
Amplitude	mm	0.90 2.00	0.90 2.00	0.80 1.70
MIN. TURNING RADIUS m (in)				
5.6 (221")				
GRADABILITY %				
62 50				
ENGINE				
Model	Perkins "1104-44TA" Diesel engine with turbo charger			
Type	Water-cooled, 4-cycle, 4-cylinder in line, vertical mounted overhead valve, direct injection type, air charge cooler			
Piston displacement	L (cu.in)	4,400 (268.5")		
Rated output	kW (PS) / min ⁻¹	90.5 (123) / 2,200		
Battery	24V (12V-100 Ah×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)	2,130×1,530 (84"×60")	2,130×1,600 (84"×63")	2,130×1,650 (84"×65")
Number of pads		140		
Pad height	mm (in)	100 (4")		
Tire size		23.1 - 26 - 8PR (OR)		
Suspension system				
Front: roll	Rubber damper type			
Rear: tire	Rigid			
FLUID CAPACITY				
Fuel tank	L (gal)	250 (66)		
Hydraulic oil tank	L (gal)	50 (13)		

* Specifications are subject to change without notice.

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