

SV512-H Series

Vibrating Roller

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



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



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



Rops cabin and A/C (option)

SAKAI®

SERVICE
HOTLINE

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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-H 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)

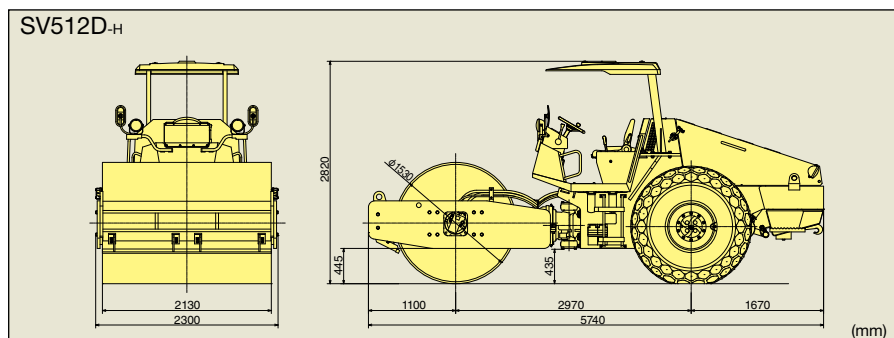
☆ Excellent serviceability

- 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-H	SV512D-H	SV512T-H	SV512TF-H	SV512DF-H
WEIGHTS					
Gross weight	kg (lb) 10,320 (22,755)	10,500 (23,150)	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 (12,785)	7,950 (17,525)	7,150 (15,765)
Load on rear	kg (lb) 5,050 (11,135)	5,050 (11,135)	5,050 (11,135)	5,050 (11,135)	4,900 (10,805)
DIMENSIONS					
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)
Overall height 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 (18.0)	480 (18.5)
Curb clearance	mm (in) 445 (17.5)		465 (18.0)	480 (18.5)	500 (19.5)
SPEED (F & R)					
1st	km / h (mph) 0 - 9 (0 - 5.6)		0 - 6 (0 - 3.7)		
2nd	km / h (mph) -		0 - 10 (0 - 6.2)		
VIBRATING POWER					
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)	36.7 (2,200) 27.5 (1,650)
Centrifugal force	kN (kgf) 172 (17,500)	226 (23,000)	186 (19,000) 245 (25,000)	186 (19,000) 245 (25,000)	172 (17,500) 226 (23,000)
Amplitude	lb 38,580	50,705	41,885 55,115	41,885 55,115	38,665 50,805
	0.90	2.00	0.90 2.00	0.80 1.70	0.60 1.40
MIN. TURNING RADIUS	m (in) 5.6 (221)				
GRADABILITY	% (°) 39 (21) 62 (32) 50 (27) 55 (29)				
ENGINE	ISUZU "4BG1T" Diesel engine with turbo charger				
Model	Water-cooled, 4-cycle, 4-cylinder in line, vertical mounted				
Type	overhead valve, direct injection type				
Piston displacement L (cu.in)	4.329 (264.2)				
Rated output kW (HP) / min ⁻¹	83.3 (112) / 2,100				
Battery	24V (12V-100 Ah X 2)				
POWER LINE	Hydrostatic transmission				
Transmission	Auto lock type				
Differential	Planetary gear				
Final drive					
VIBRATING SYSTEM	Hydrostatic transmission				
Transmission	Eccentric shaft type				
Vibrator					
BRAKE SYSTEM	Hydrostatic and mechanical type				
Service brake	Mechanical type				
Parking brake					
STEERING SYSTEM	Hydraulic type (Articulated type)				
ROLL & TIRES	Vibrate Vibrate & Drive				
Use	Front: roll		Drive		
	Rear: tire		2		
No. of tires					
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)	2,130×1,708 (84×67)
Number of pads	-		140	140	160
Pad height	mm (in) -		100 (4.0)	100 (4.0)	75 (3.0)
Tire size	23.1 - 26 - 8PR (OR)				
Suspension system	Rubber damper type				
Front: roll	Rigid				
Rear: tire					
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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