

SAKAI®

SW502S-1·352S-1 TW502S-1·352S-1

Asphalt Roller



SW502S-1

Vibratory Tandem Roller Vibratory Combined Roller

Introducing a new sleek design featuring a compact Vibratory Tandem Roller "SW" or Vibratory Combined Roller "TW" with a smooth vibratory drum in the front and 4 (four) smooth tread pneumatic tires in the rear.

These models permit selection of an optimum vibration mode for any type of compaction operation during medium and small paving jobs.

Best compaction quality and efficiency

- High-Low amplitude selector switch on the 502S-1 allows for use in wider applications.
- Excellent gradability.

High safety standards

- Built in safety features prevent accidental starting, starts only when the Forward & Reverse lever is in the neutral position.
- Emergency brake pedal is standard.
- 1 m × 1 m visibility.

Easy Maintenance

- Sprinkler system with anti-clog package, i.e., a plastic water tank, triple-protection filtration, etc., and with perfect draining winterization.
- Oil bath lubrication for drum vibrator mechanism.



TW502S-1



SW352S-1



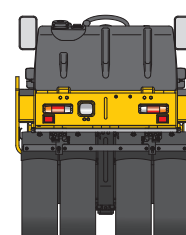
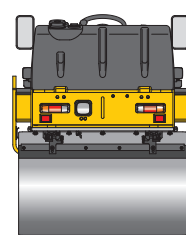
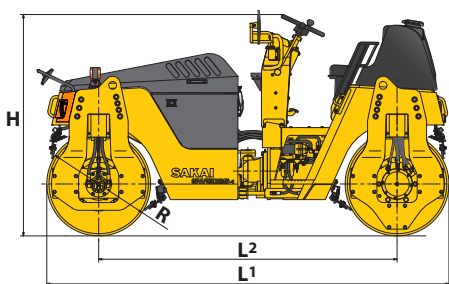
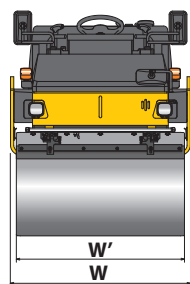
TW352S-1

If you need any technical or service parts support on our products, please contact this web page.



www.sakainet.co.jp/english/

SW502S-1·352S-1/TW502S-1·352S-1



TW502S-1 · 352S-1

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TYPE			Vibratory Tandem Roller				Vibratory Combined Roller			
MODEL			SW502S-1		SW352S-1		TW502S-1		TW352S-1	
CHASSIS MODEL			1SW43		1SW42		1TW43		1TW42	
WEIGHTS	Operating weight	kg (lb)	4,090 (9,020)		2,940 (6,485)		3,540 (7,800)		2,640 (5,820)	
	Empty weight	kg (lb)	3,780 (8,335)		2,740 (6,045)		3,230 (7,120)		2,440 (5,380)	
	Load on front axle (operating weight)	kg (lb)	2,000 (4,410)		1,480 (3,265)		1,990 (4,385)		1,480 (3,265)	
	Load on rear axle (operating weight)	kg (lb)	2,090 (4,610)		1,460 (3,220)		1,550 (3,415)		1,160 (2,555)	
PERFORMANCE	Centrifugal force (L / H)	kN (lb)	26.5 / 34.3 (5,955 / 7,710)		20.6 (4,630)		26.5 / 34.3 (5,955 / 7,710)		20.6 (4,630)	
	Frequency (L / H)	Hz (vpm)	55 / 55 (3,300 / 3,300)		55 (3,300)		55 / 55 (3,300 / 3,300)		55 (3,300)	
	Amplitude (L / H)	mm (in)	0.27 / 0.35 (0.011 / 0.014)		0.33 (0.013)		0.27 / 0.35 (0.011 / 0.014)		0.33 (0.013)	
	Dynamic linear pressure for front drum (operating weight)	N / cm (lb / in)	355 / 415 (204 / 239)		293 (168)		354 / 414 (204 / 238)		293 (168)	
	Dynamic linear pressure for rear drum (operating weight)	N / cm (lb / in)	361 / 421 (208 / 243)		291 (168)		-		-	
	No. of speeds						2			
	Speed range (Forward & Reverse) (L / H)	km / h (mph)	0 - 7.5 / 0 - 10 (0 - 4.7 / 0 - 6.2)				0 - 9 / 0 - 12 (0 - 5.6 / 0 - 7.5)			
	Gradability	% (°)					38 (21)			
	Min. turn radius (outer)	m (in)	4.3 (169)		3.8 (150)		4.3 (169)		3.8 (150)	
	DIMENSIONS	Overall length L ¹	mm (in)	3,100 (122)		2,675 (105)		3,105 (122)		2,675 (105)
Overall width W		mm (in)	1,390 (55)		1,290 (51)		1,390 (55)		1,290 (51)	
Overall height H		mm (in)	1,705 (67)		1,575 (62)		1,705 (67)		1,575 (62)	
Wheelbase L ²		mm (in)	2,300 (91)		2,000 (79)		2,300 (91)		2,000 (79)	
Compaction width		mm (in)	1,300 (51)		1,200 (47)		1,300 (51)		1,200 (47)	
Drum diameter R / Drum width W'		mm (in)	800 / 1,300 (31.5 / 51)		675 / 1,200 (26.6 / 47)		800 / 1,300 (31.5 / 51)		675 / 1,200 (26.6 / 47)	
Ground clearance		mm (in)	280 (11.0)		250 (10.0)		280 (11.0)		250 (10.0)	
Curb clearance		mm (in)	635 (25.0)		540 (21.5)		635 (25.0)		540 (21.5)	
Side clearance		mm (in)					45 (1.8)			
ENGINE		Make		KUBOTA						
	Model		V2203-EDM (Interim Tier4)		D1503-EDM		D1503-T-EDM		D1503-EDM	
	Type		Diesel, Water-cooled, 4-cycle, 4-cylinder				Diesel, Water-cooled, 4-cycle, 3-cylinder			
	Displacement	L (cu.in)	2.197 (134)				1.499 (91)			
	Rated output	kW (HP) / min ⁻¹	29.1(39) / 2,300		19.2 (26) / 2,300		25.5 (34) / 2,300		19.2 (26) / 2,300	
	Electric system battery	V (V / Ah × Qty)	12 (12 / 80 × 1)							
	Electric system alternator	V / A	12 / 60							
	POWER LINE	Transmission		Hydrostatic transmission						
Type			Direct drive							
Drive wheel			All wheel							
VIBRATION SYSTEM	Drive		Hydrostatic							
	No. of amplitude		2		1		2		1	
BRAKE SYSTEM	Vibrator		Eccentric shaft type							
	Service (working)		Hydrostatic dynamic brake through drive system / FNR Lever							
	Secondary (emergency)		Hydrostatic + Spring-applied hydraulically released (SAHR) / Brake pedal							
STEERING SYSTEM	Parking (parking)		SAHR / Panel button							
	Type		Hydraulic type (articulated)							
FLUID CAPACITY	Articulation / Oscillation (+/-)	°	35 / 4.0							
	Fuel tank	L (gal)	50 (13)		40 (10.6)		50 (13)		40 (10.6)	
	Hydraulic tank	L (gal)	49 (12.9)		43 (11.4)		49 (12.9)		43 (11.4)	
	Sprinkler tank	L (gal)	310 (82)		200 (53)		310 (82)		200 (53)	
	Liquid tank	L (gal)	-		-		10 (2.6)		-	

- Operating Weight : 100% Fuel, 100% Water, no Operator.
- Specifications are subject change without notice.
- All units are SI units. Inside of () is for reference units.
- Above specified numbers could be deviated within ±5%.

- ※ Engine meets EPA standards for SW502S-1.
- ※ Using low quality fuel may cause engine failure.

Standard Equipment :

- Instrument ● Gauges ● Scrapers for both directions
- Back up alarm ● Horn ● Sliding seat ● Head light
- Working light ● Turn signal lamp ● Mirrors
- Pressurized water sprinkler system ● 4 points lifting
- Release agent spray system (TW)

Optional Equipment :

- AWNING ● ROPS-BAR
- Independent vibration control (SW502S-1)
- Intermittent water spray timer



SAKAI HEAVY INDUSTRIES, LTD. obtain the certification of quality management system ISO9001.



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