

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



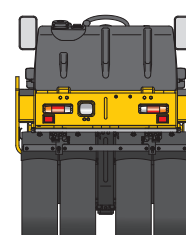
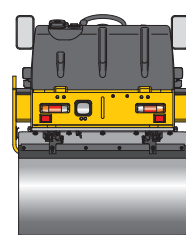
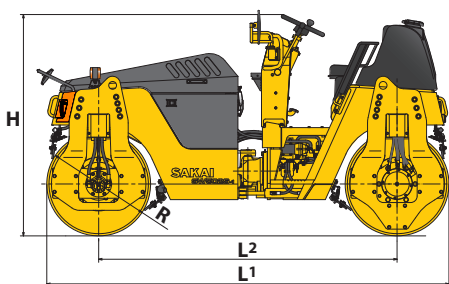
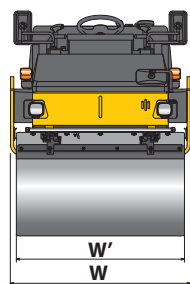
TW352S-1

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

SW502S-1 · 352S-1

TW502S-1 · 352S-1

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)
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				
	Displacement	L (cu.in)	2.197 (134)			
	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)	-			

- 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.



SAKAI HEAVY INDUSTRIES, LTD.

HEAD OFFICE: 1-4-8, SHIBA DAIMON, MINATO-KU, TOKYO JAPAN
 TELEPHONE: +81-3-3431-9971
 FACSIMILE: +81-3-3436-6212