

SAKAI®

SW502S-1·354 TW504·354

Asphalt Roller



TW354

SW354

VIBRATORY TANDEM ROLLER VIBRATORY COMBINED ROLLER

All-drum drive, articulated steering compact size double drum type (SW) and combination type (TW) vibrating roller.

Eco Mode

- Sakai's new Eco compaction mode (ECM), which reduces fuel consumption up to 20%.

Best Compaction Quality and Efficiency

- High-Low amplitude selector switch on the SW502S-1 and TW504 allows for use in wider applications.
- Excellent gradability.
- Vibration frequency of 4,000 vpm allows high-speed compaction with optimum impact spacing (SW/TW354).

High Safety Standards

- Built in safety features prevent accidental starting, starts only when the Forward, Neutral & Reverse lever is in the neutral position and press down the parking brake switch.
- Emergency brake pedal is standard.
- 1 m x 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.



SW502S-1



TW504

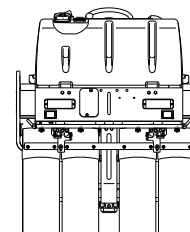
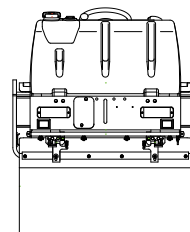
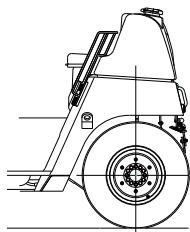
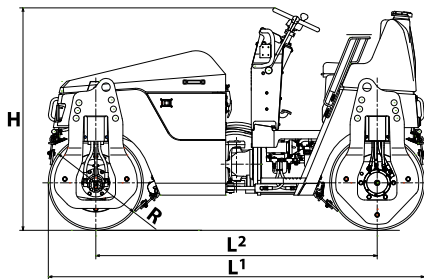
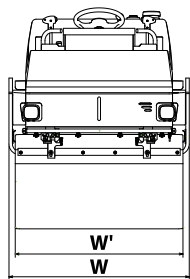
Optional Equipment



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

www.sakainet.co.jp/english/

SW502S-1•354/TW504•354



TW504•354

SW502S-1•354

TW504•354

TYPE			Vibratory Tandem Roller		Vibratory Combined Roller	
MODEL			SW502S-1	SW354	TW504	TW354
CHASSIS MODEL			1SW43	1SW73	1TW74	1TW73
WEIGHTS	Max. operating weight	kg (lb)	4,170 (9,195)	3,020 (6,660)	3,620 (7,980)	2,720 (5,995)
	Operating weight	kg (lb)	3,990 (8,795)	2,900 (6,395)	3,440 (7,585)	2,600 (5,730)
	Load on front axle (with operating weight)	kg (lb)	1,990 (4,385)	1,470 (3,240)	1,980 (4,365)	1,470 (3,240)
	Load on rear axle (with operating weight)	kg (lb)	2,000 (4,410)	1,430 (3,155)	1,460 (3,220)	1,130 (2,490)
PERFORMANCE	Centrifugal force (L / H)	kN (lb)	26.5 / 34.3 (5,955 / 7,710)	29.0 (6,515)	26.5 / 34.3 (5,955 / 7,710)	20.6 (4,630)
	Frequency (L / H)	Hz (vpm)	55 / 55 (3,300 / 3,300)	67 (4,000)	52 / 52 (3,120 / 3,120)	52 (3,120)
	Amplitude (L / H)	mm (in)	0.27 / 0.35 (0.011 / 0.014)	0.31 (0.012)	0.30 / 0.40 (0.012 / 0.016)	0.36 (0.014)
	Dynamic linear pressure for front drum	N / cm (lb / in)	355 / 415 (204 / 239)	363 (208)	354 / 414 (204 / 238)	292 (165)
	Dynamic linear pressure for rear drum	N / cm (lb / in)	361 / 421 (208 / 243)	361 (207)	-	-
	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 - 7 / 0 - 10 (0 - 4.3 / 0 - 6.2)	
	Gradeability	% (°)	38 (21)			
	Turning radius inside compacted surface	m (in)	3.0 (119)	2.6 (103)	3.0 (119)	2.6 (103)
	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-M-ET04 (Interim Tier4)		D1703-M-DI-EF03 (Tier4)	
	Type		Diesel, Water-cooled, 4-cycle, 4-cylinder		Diesel, Water-cooled, 4-cycle, 3-cylinder	
	Displacement	L (cu.in)	2.197 (134)		1.647 (100)	
	Rated output	kW (HP) / min ⁻¹	29.1(39) / 2,300		18.2 (24) / 2,200	
	Electric system battery	V (V / Ah × Qty)	12 (12 / 72 × 1)			
	Electric system alternator	V / A	12 / 60			
DRIVE SYSTEM	Transmission type		Hydrostatic			
	Type		Direct drive			
VIBRATION SYSTEM	Drive wheel		All wheel			
	Power transmission type		Hydraulic			
BRAKE SYSTEM	No. of amplitude		2	1	2	1
	Vibrator type		Eccentric shaft			
STEERING SYSTEM	Service brake		Hydrostatic dynamic brake through drive system / FNR Lever			
	Secondary brake (Emergency brake)		Hydrostatic + Spring-applied hydraulically released (SAHR) / Brake pedal			
	Parking brake		SAHR / Panel button			
FLUID CAPACITY	Type		Hydraulic type (articulated)			
	Steering / Oscillating angle (+/-)	°	35 / 4.0			
FLUID CAPACITY	Fuel tank	L (gal)	50 (13)	40 (10.6)	50 (13)	40 (10.6)
	Hydraulic oil tank	L (gal)	49 (12.9)	43 (11.4)	43 (11.4)	43 (11.4)
	Sprinkler tank	L (gal)	310 (82)	200 (53)	310 (82)	200 (53)
	Liquid tank	L (gal)	-		10 (2.6)	

● Operating weight : Fuel = 50%, Water = 50%, Operator = 75kg. ● All units are SI units. Inside of () is for reference units.
 ● Max. operating weight : Fuel = 100%, Water = 100%, Operator = 75kg. ● Above specified numbers could be deviated within ±5%.
 ● Specifications are subject change without notice.

* Using low quality fuel may cause engine failure.

Standard Equipment :

- Instrument ● Gauges ● Scrapers for both directions ● Horn
- Sliding seat ● Head light ● Pressurized water sprinkler system
- 4 points lifting ● Accessory socket (12V)
- Release agent spray system (TW504, TW354)

Optional Equipment :

- AWNING ● ROPS-BAR ● Backup alarm switch ● Working light
- Turn signal lamp ● Hazard lamp ● Mirrors ● Back up alarm
- Independent vibration control (SW502S-1, SW354)
- Intermittent water spray timer ● Floor mat ● Vandalism protections
- Chokes ● Antifreeze tank ● Drum edge light ● Super low-noise



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



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