

SAKAI®

SW502S-1·354 TW504·354



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

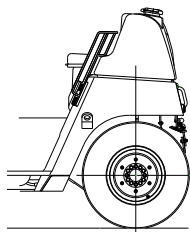
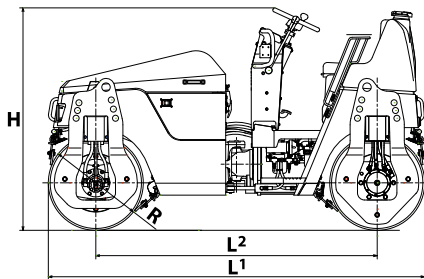
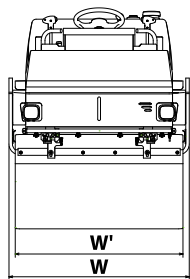
Optional Equipment



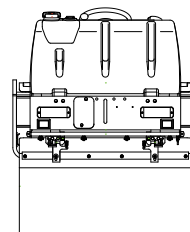
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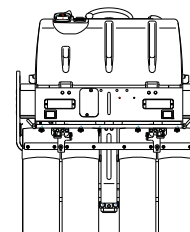
SW502S-1•354/TW504•354



TW504•354



SW502S-1•354



TW504•354

TYPE	Vibratory Tandem Roller				Vibratory Combined Roller		
	SW502S-1	SW354	TW504	TW354			
MODEL	1SW43		1TW74		1TW73		
CHASSIS MODEL	1SW43		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)	
	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)	
PERFORMANCE	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)	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-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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