



SW502S-1

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 gradeability.
- Vibration frequency of 4,000 vpm allows high-speed compaction with optimum impact spacing (SW354).

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 × 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.



TW504



SW354



TW354

Optional Equipment



Canopy



ROPS-BAR
(w/Seat belt)



Intermittent
water sprinker timer



Independent
vibration control
(SW502S-1, SW354)

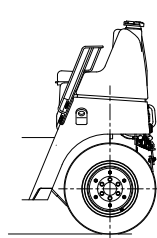
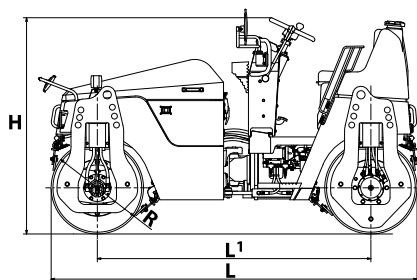
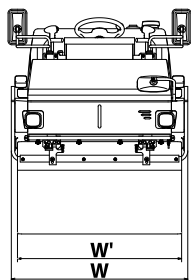
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**SERVICE
HOTLINE**

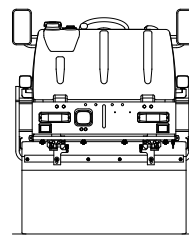
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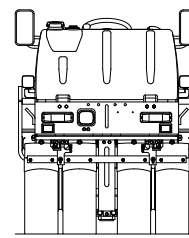
SW502S-1•354/TW504•354



TW504•354



SW502S-1•354



TW504•354

TYPE	Vibratory Tandem Roller		Vibratory Combined Roller				
	SW502S-1	SW354	TW504	TW354			
MODEL	1SW43	1SW73	1TW74	1TW73			
CHASSIS MODEL							
WEIGHTS	Max. operating weight	kg (lbs)	4,170 (9,195)	3,020 (6,660)	3,620 (7,980)	2,720 (5,995)	
	Operating weight	kg (lbs)	3,990 (8,800)	2,900 (6,395)	3,440 (7,585)	2,600 (5,730)	
	Load on front axle (with operating weight)	kg (lbs)	1,990 (4,390)	1,470 (3,240)	1,980 (4,365)	1,470 (3,240)	
	Load on rear axle (with operating weight)	kg (lbs)	2,000 (4,410)	1,430 (3,155)	1,460 (3,220)	1,130 (2,490)	
	Centrifugal force (L / H)	kN (lbs)	26.5 / 34.3 (5,955 / 7,710)	29.0 (6,520)	26.5 / 34.3 (5,955 / 7,710)	20.6 (4,630)	
PERFORMANCE	Frequency (L / H)	Hz (vpm)	55 / 55 (3,300 / 3,300)	66.7 (4,000)	52 / 52 (3,100 / 3,100)	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 (lbs / in)	354 / 414 (200 / 235)	362 (205)	353 / 413 (202 / 236)	292 (165)	
	Dynamic linear pressure for rear drum	N / cm (lbs / in)	355 / 415 (205 / 235)	358 (205)		-	
	Number 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	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'		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 / 51)	675 / 1,200 (27 / 47)	800 / 1,300 (31 / 51)	675 / 1,200 (27 / 47)	
Tire size x Number of tires			-		10.5 / 80-16-6PR x 4	9.5 / 65-15-6PR x 4	
Ground clearance		mm (in)	280 (11)	250 (10)	280 (11)	250 (10)	
Curb clearance		mm (in)	635 (25)	540 (21)	635 (25)	540 (21)	
Side clearance		mm (in)	45 (2)				
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)	1.647 (100.5)			
	Rated output	kW (HP) / min ⁻¹	29.1(39) / 2,300	18.2 (24) / 2,200			
	Electric system battery	V (V / Ah x Qty)	12 (12 / 78 x 1)				
	Electric system alternator	V / A	12 / 60				
DRIVE SYSTEM	Transmission type	Hydrostatic					
	Drive wheel	All wheel					
VIBRATION SYSTEM	Power transmission type	Hydraulic					
	Number of amplitudes	2	1	2	1		
BRAKE SYSTEM	Vibrator type	Eccentric shaft					
	Service brake	Hydrostatic dynamic brake through drive system / FNR Lever					
	Secondary brake (Emergency brake)	Hydrostatic + Spring-applied hydraulically released (SAHR) / Brake pedal					
STEERING SYSTEM	Parking brake	SAHR / Panel button					
	Type	Hydraulic type (articulated)					
FLUID CAPACITY	Articulation / Oscillating angle	±35° / ±4°					
	Fuel tank	L (gal)	50 (13.2)	40 (10.6)	50 (13.2)	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 (81.9)	200 (52.8)	310 (81.9)	200 (52.8)	
	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 panel ● Gauges ● Scrapers for both directions
- Backup alarm ● Horn ● Comfort seat ● Working lights
- Turn signal lamp ● Accessory socket (12V) ● Mirrors
- Pressurized water sprinkler system ● 4 points lifting
- Chocks ● Release agent spray system (TW504, TW354)

Optional Equipment :

- AWNING ● ROPS-BAR ● Backup alarm switch
- Hazard lamp ● Drum edge light
- Independent vibration control (SW502S-1, SW354)
- Intermittent water spray timer ● Floor mat ● Vandalism protections
- Antifreeze tank



ISO9001 certified Tokyo Head Office,
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