

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



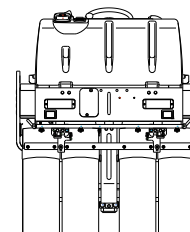
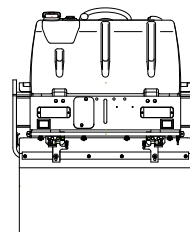
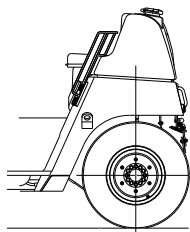
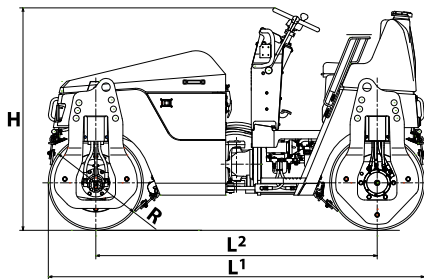
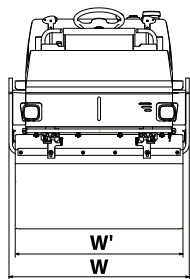
Canopy

ROPS-BAR
(w/Seat belt)Mirrors
(Side and Under)Turn signal lamp
Working light(SEC)
SPRAY PAUSE
TIMERIndependent
vibration control
**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		
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	29.1(39) / 2,300		18.2 (24) / 2,200	
	Electric system battery	V (V / Ah @y)	12 (12 / 72 x 1)			
	Electric system alternator	V / A	12 / 60			
	DRIVE SYSTEM	Transmission type	Hydrostatic			
Type		Direct drive				
Drive wheel		All wheel				
VIBRATION SYSTEM	Power transmission type	Hydraulic				
	No. of amplitude	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	Steering / Oscillating angle (+/-)	35 / 4.0				
	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.



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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