

TW504·354 SW502S-1·354





VIBRATORY COMBINED ROLLER VIBRATORY TANDEM ROLLER

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

Operators Comfort

• Bench type seat enables easy access to see drum edge.

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 TW504 and SW502S-1 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.





TW354



Optional Equipment





(w/Seat belt)

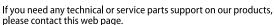
SPRAY PAUSE TIMER



Intermittent water sprinler timer

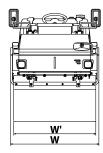
Independent vibration control (SW502S-1, SW354)

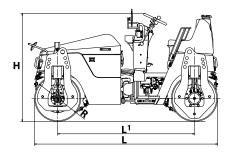




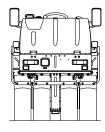


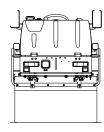
TW504·354 / SW502S-1·354











TW504·354

TW504·354

SW502S-1·354

ТҮРЕ			Vibratory Combined Roller		Vibratory Tandem Roller	
MODEL			TW504	TW354	SW502S-1	SW354
CHASSIS MODEL			1TW74	1TW73	1SW43	1SW73
WEIGHTS	Max. operating weight	kg (lbs)	3,620 (7,980)	2,720 (5,995)	4,170 (9,195)	3,020 (6,660)
	Operating weight	kg (lbs)	3,440 (7,585)	2,600 (5,730)	3,990 (8,800)	2,900 (6,395)
	Load on front axle (with operating weight)	kg (lbs)	1,980 (4,365)	1,470 (3,240)	1,990 (4,390)	1,470 (3,240)
	Load on rear axle (with operating weight)	kg (lbs)	1,460 (3,220)	1,130 (2,490)	2,000 (4,410)	1,430 (3,155)
PERFORMANCE	Centrifugal force (L / H)	kN (lbs)	26.5 / 34.3 (5,955 / 7,710)	20.6 (4,630)	26.5 / 34.3 (5,955 / 7,710)	29.0 (6,520)
	Frequency (L / H)	Hz (vpm)	52 / 52 (3,100 / 3,100)	52 (3,120)	55 / 55 (3,300 / 3,300)	66.7 (4,000)
	Amplitude (L / H)	mm (in)	0.30 / 0.40 (0.012 / 0.016)	0.36 (0.014)	0.27 / 0.35 (0.011 / 0.014)	0.31 (0.012)
	Dynamic linear pressure for front drum	N / cm (lbs / in)	353 / 413 (202 / 236)	292 (165)	354 / 414 (200 / 235)	362 (205)
	Dynamic linear pressure for rear drum	N / cm (lbs / in)		_	355 / 415 (205 / 235)	358 (205)
	Number of speeds				2	I.
	Speed range (Forward & Reverse) (L / H)	km / h (mph)	0-7 / 0-10 (0-4.3 / 0-6.2)		0-7.5 / 0-10 (0-4.7 / 0-6.2) 0-7 / 0-10 (0-4.3 / 0-6.2	
	Gradeability	% (°)	·	38	3 (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)	3,105 (122)	2,675 (105)	3,100 (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 L¹	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)		1 1	5 (2)	2 12 (2 1)
ENGINE			KUBOTA			
	Model					D1703-M-DI-EF03 (Tier4
	Туре		Diesel, Water-cooled, 4-cycle, 3-cylinder		Diesel, Water-cooled, 4-cycle, 4-cylinder	Diesel, Water-cooled, 4-cycle, 3-cylinde
	Displacement	L (cu.in)	1.647 (100.5)		2.197 (134.1)	1.647 (100.5)
	Rated output	kW (HP) / min ⁻¹	18.2 (24) / 2,200		29.1(39) / 2,300	18.2 (24) / 2,200
	Electric system battery	V (V / Ah × Qty)			/78 x 1)	1012 (2 1) / 2/200
	Electric system alternator	V/A	12/60			
DRIVE SYSTEM	Transmission type		Hydrostatic			
	Drive wheel		All wheel			
VIBRATION	Power transmission type		Hydraulic			
SYSTEM	Number of amplitudes		2	1	2	1
	Vibrator type		Eccentric shaft			
BRAKE 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			
STEERING SYSTEM	Type		Hydraulic type (articulated)			
	Articulation / Oscillating angle	± (°)	±35° / ±4°			
FLUID CAPACITY	Fuel tank	L (gal)	50 (13.2)	40 (10.6)	50 (13.2)	40 (10.6)
	Hydraulic oil tank	L (gal)	43 (11.4)	43 (11.4)	49 (12.9)	43 (11.4)
	•	L (gal)	310 (81.9)	200 (52.8)	310 (81.9)	200 (52.8)
	Sprinkler tank					
	Sprinkler tank Liquid tank				3.0 (0.112)	_
	Sprinkler tank Liquid tank	L (gal)	10	(2.6) Deparating weight: Fuel = 50%, Water = 50%, Waxoperating weight: Fuel = 100%, Waxoperating weight	Operator = 75kg. • All units are SI u	nits. Inside of () is for reference units. I numbers could be deviated within ±5%

^{*} Using low quality fuel may cause engine failure.



ISO9001 certified Tokyo Head Office, Tokyo Factory, Global Service Division, Technical Development Division.



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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