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## 2020

2020

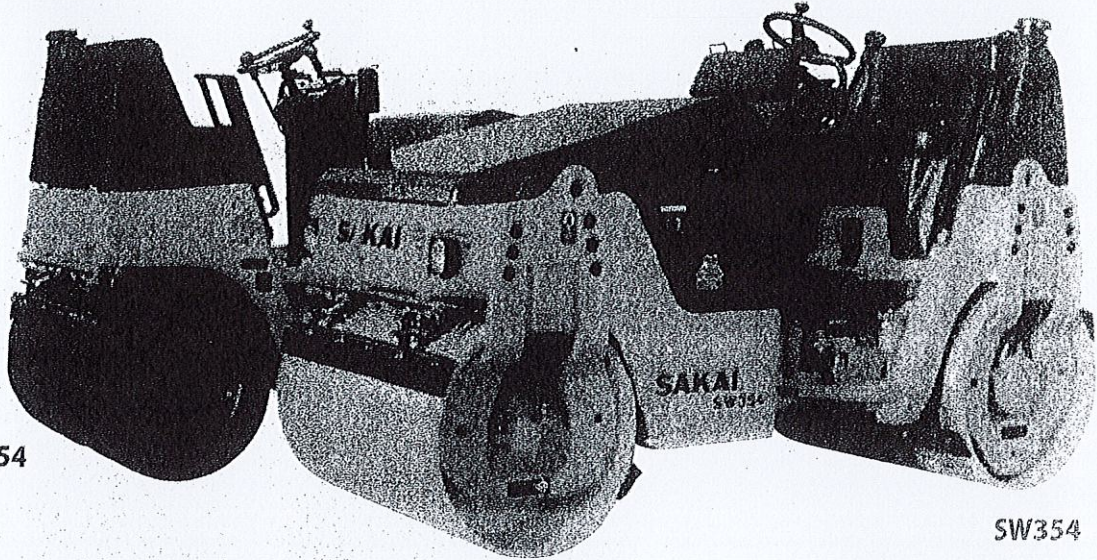
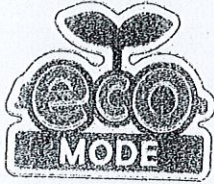
### 01 - 2020

- 01-01 2020
- 01-02 Vibratory Combined Roller
- 01-03 SAKAI TW504
- 01-04 2020
- 01-05 2020
- 01-06 2020
- 01-07 2020
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- 01-11 2020
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**SAKAI®**

**SW502S-1.354**  
**TW504.354**



TW354

SW354

**VIBRATORY TANDEM ROLLER**  
**VIBRATORY COMBINED ROLLER**

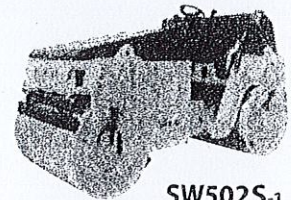
All-drum drive, articulated steering compact size double drum type (SW) and combination type (TW) vibrating roller.

**Eco Mode**

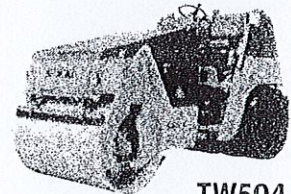
- Sakai's new Eco compaction mode (ECM), which reduces fuel consumption up to 20%.

**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).



SW502S-1



TW504

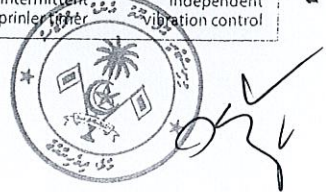
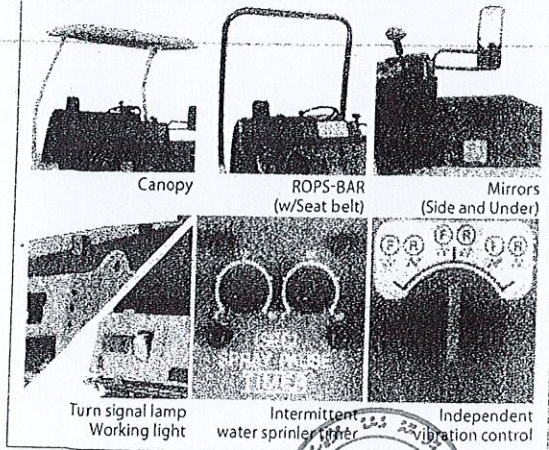
**High Safety Standards**

- 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.

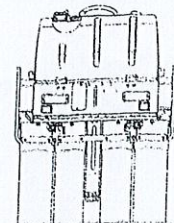
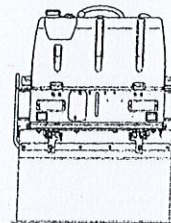
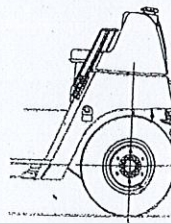
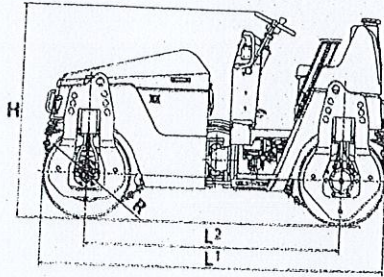
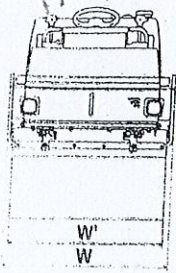
**Easy Maintenance**

- 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.

**Optional Equipment**



# 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)	
DIMENSIONS	Gradeability	% (°)			38 (21)	
	Turning radius inside compacted surface	m (in)	3.0 (119)	2.6 (103)	3.0 (119)	2.6 (103)
	Overall length L <sup>1</sup>	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 <sup>2</sup>	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)
ENGINE	Side clearance	mm (in)			45 (1.8)	
	Make				KUBOTA	
	Model		V2203-M-ET04 (Interim Tier4)		D1703-M-DI-EF03 (Tier4)	
	Type		Diesel, Water-cooled, 4-cylinder		Diesel, Water-cooled, 4-cylinder, 3-cylinder	
	Displacement	L (cu.in)	2,197 (134)		1,647 (100)	
	Rated output	kW (HP) / min <sup>-1</sup>	29.1(39) / 2,300		18.2 (24) / 2,200	
	Electric system battery	V (V/Ah x Qty)			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	
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 = 90%, Water = 100%, Operator = 75kg. • Above specified numbers could be deviated within 15%.  
 • 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 protection
- Chokes • Antifreeze tank • Drum edge light • Super low-noise

