

# SAKAI®

# SW502-1·352-1 TW502S-1·352-1

Asphalt Roller



SW502-1

## Vibratory Tandem Roller Vibratory Combined Roller

Introducing a new sleek design featuring a compact Vibratory Tandem Roller "SW" or Vibratory Combined Roller "TW" with a smooth vibratory drum in the front and 4 (four) smooth tread pneumatic tires in the rear.

These models permit selection of an optimum vibration mode for any type of compaction operation during medium and small paving jobs.

### Best compaction quality and efficiency

- High-Low amplitude selector switch on the 502-1 allows for use in wider applications.
- Excellent gradability.

### High safety standards

- Built in safety features prevent accidental starting, starts only when the Forward & Reverse lever is in the neutral position.
- 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.



TW502S-1

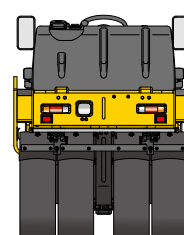
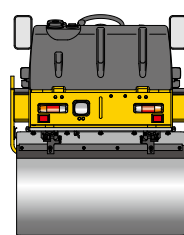
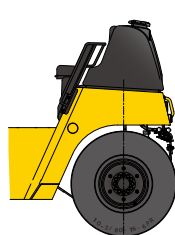
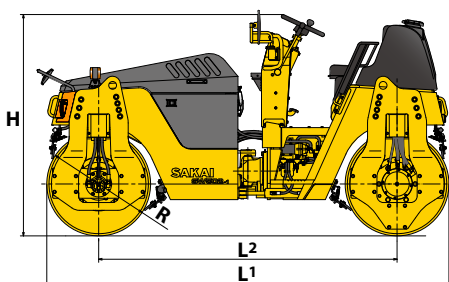
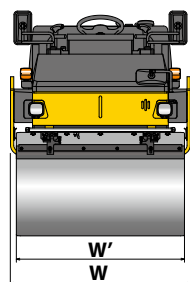


SW352-1



TW352-1

# SW502-1·352-1/TW502S-1·352-1



TW502S-1 · 352-1

SW502-1 · 352-1

TW502S-1 · 352-1

TYPE			Vibratory Tandem Roller		Vibratory Combined Roller		
MODEL			SW502-1	SW352-1	TW502S-1	TW352-1	
CHASSIS MODEL			1SW43	1SW42	1TW43	1TW42	
<b>WEIGHTS</b>	Operating weight	kg (lb)	4,090 (9,020)	2,940 (6,485)	3,540 (7,800)	2,640 (5,820)	
	Empty weight	kg (lb)	3,780 (8,335)	2,740 (6,045)	3,230 (7,120)	2,440 (5,380)	
	Load on front axle (operating weight)	kg (lb)	2,000 (4,410)	1,480 (3,265)	1,990 (4,385)	1,480 (3,265)	
	Load on rear axle (operating weight)	kg (lb)	2,090 (4,610)	1,460 (3,220)	1,550 (3,415)	1,160 (2,555)	
<b>PERFORMANCE</b>	Centrifugal force (L / H)	kN (lb)	26.5 / 34.3 (5,955 / 7,710)	20.6 (4,630)	26.5 / 34.3 (5,955 / 7,710)	20.6 (4,630)	
	Frequency (L / H)	Hz (vpm)	55 / 55 (3,300 / 3,300)	55 (3,300)	55 / 55 (3,300 / 3,300)	55 (3,300)	
	Amplitude (L / H)	mm (in)	0.27 / 0.35 (0.011 / 0.014)	0.33 (0.013)	0.27 / 0.35 (0.011 / 0.014)	0.33 (0.013)	
	Dynamic linear pressure for front roll (operating weight)	N / cm (lb / in)	355 / 415 (204 / 239)	293 (168)	354 / 414 (204 / 238)	293 (168)	
	Dynamic linear pressure for rear roll (operating weight)	N / cm (lb / in)	361 / 421 (208 / 243)	291 (168)	-	-	
	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 - 9 / 0 - 12 (0 - 5.6 / 0 - 7.5)		
	Gradability	% (°)	38 (21)				
	Min. turn radius (outer)	m (in)	4.3 (169)	3.8 (150)	4.3 (169)	3.8 (150)	
	<b>DIMENSIONS</b>	Overall length <b>L1</b>	mm (in)	3,100 (122)	2,675 (105)	3,105 (122)	2,675 (105)
Overall width <b>W</b>		mm (in)	1,390 (55)	1,290 (51)	1,390 (55)	1,290 (51)	
Overall height <b>H</b>		mm (in)	1,705 (67)	1,575 (62)	1,705 (67)	1,575 (62)	
Wheelbase <b>L2</b>		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 <b>R</b> / Drum width <b>W'</b>		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)				
<b>ENGINE</b>		Make		KUBOTA			
	Model		V2203-EDM ( Interim Tier4 )	D1503-EDM	D1503-T-EDM	D1503-EDM	
	Type		Diesel, Water-cooled, 4-cycle, 4-cylinder				
	Displacement	L ( cu.in )	2.197 (134)		1.499 (91)		
	Rated output	kW (HP) / min <sup>-1</sup>	29.1(39) / 2,300	19.2 (26) / 2,300	25.5 (34) / 2,300	19.2 (26) / 2,300	
	Electric system battery	V (V / Ah × Qty)	12 ( 12 / 80 × 1 )				
	Electric system alternator	V / A	12 / 60				
	<b>POWER LINE</b>	Transmission		Hydrostatic transmission			
		Type		Direct drive			
		Drive wheel		All wheel			
<b>VIBRATION SYSTEM</b>	Drive		Hydrostatic				
	Amplitude control		2	1	2	1	
	Vibrator		Eccentric shaft type				
<b>BRAKE SYSTEM</b>	Service ( emergency )		Hydrostatic dynamic brake + SAHR / Brake Pedal				
	Parking		Spring-applied hydraulically released type (SAHR) / Panel Button				
	Working ( nominal )		Hydrostatic dynamic brake through drive system / F&R Lever				
<b>STEERING SYSTEM</b>	Type		Hydraulic type (articulated)				
	Articulation / Oscillation (+/-)	°	35 / 4.0				
<b>FLUID CAPACITY</b>	Fuel tank	L (gal)	50 (13)	40 (10.6)	50 (13)	40 (10.6)	
	Hydraulic tank	L (gal)	49 (12.9)	43 (11.4)	49 (12.9)	43 (11.4)	
	Sprinkler tank	L (gal)	310 (82)	200 (53)	310 (82)	200 (53)	
	Liquid tank	L (gal)	-	-	10 (2.6)	-	

- Operating Weight : 100% Fuel, 100% Water, no Operator.
- Specifications are subject change without notice.
- All units are SI units. Inside of ( ) is for reference units.
- Above specified numbers could be deviated within ±5%.

- ※ Engine meets EPA standards for SW502-1.
- ※ Using low quality fuel may cause engine failure.

### Standard Equipment :

- Instrument ● Gauges ● Scrapers for both directions
- Back up alarm ● Horn ● Sliding seat ● Head light
- Working light ● Turn signal lamp ● Mirrors
- Pressurized water sprinkler system ● 4 points lifting
- Release agent spray system (TW)

### Optional Equipment :

- AWNING ● ROPS-BAR
- Independent vibration control (SW502-1)
- Intermittent water spray timer