



SW652-1

## VIBRATORY TANDEM ROLLER

### Efficient compaction with various vibratory modes

#### Sakai patented compaction technologies

- SW652-1/-1K, standard model features 4,020vpm high frequency vibration by which can efficiently achieve the density faster and create smoother hot mix asphalt (HMA) mat.
- "B model", split drum type is also equipped with high frequency vibration and is easy to operate in the tight corner without pushing or shoving the material.
- On "NDH model", oscillatory or circular (normal) vibration is selected by switch at operator station depending on the job conditions. The oscillatory vibration is good for thin lift and the circular vibration is effective for thick layer compaction.

#### Operators comfort

- Full view over drum surface, drum edge and sprinkler nozzles.
- Auto shut-off of water sprinkler when the Forward & Reverse lever is in the neutral position.
- Patented dual water pump system for increased reliability.

#### High safety standards

- 1 m × 1 m visibility.
- Emergency brake pedal is standard.

#### Easy Maintenance

- Rugged articulated centre-pin joint.
- Long life Sakai patented rubber isolators for drums.
- Sprinkler system with anti-clog package, i.e., a plastic water tank, triple-protection filtration, etc., and with perfect draining winterization.
- KUBOTA V3307 engine features OHV4 valve and Turbo that maintains output even at high elevations.



SW652B-1



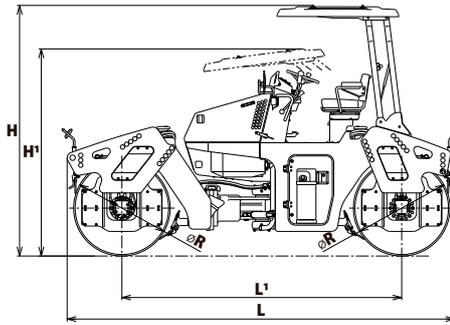
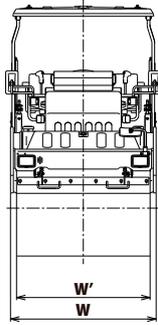
SW652NDH-1



SW652H-1

If you need any technical or service parts support on our products, please contact this web page.

# SW652-1 SW652-1K Series



TYPE			Vibratory Tandem Roller			
MODEL			SW652-1	SW652H-1	SW652B-1	SW652NDH-1
CHASSIS MODEL			SW652-1K	SW652H-1K	SW652B-1K	SW652NDH-1K
			1SW47 [SW652-1 Series]			
			1SW52 [SW652-1K Series]			
<b>WEIGHTS</b>	Max. operating weight with AWNING	kg (lbs)	7,180 (15,830)	8,080 (17,815)	8,140 (17,945)	8,140 (17,945)
	Operating weight with AWNING	kg (lbs)	6,820 (15,035)	7,720 (17,020)	7,780 (17,150)	7,780 (17,150)
	Load on front axle - operating weight with AWNING	kg (lbs)	3,290 (7,255)	3,740 (8,245)	3,740 (8,245)	3,770 (8,310)
	Load on rear axle - operating weight with AWNING	kg (lbs)	3,530 (7,780)	3,980 (8,775)	3,980 (8,775)	4,010 (8,840)
<b>PERFORMANCE</b>	Centrifugal force (L)	kN (lbs) [kgf]	62 (13,940) [6,320]		61 (13,715) [6,220]	(Vib.) 68 (15,285) [6,930]
	Centrifugal force (H)	kN (lbs) [kgf]	69 (15,510) [7,040]		67 (15,060) [6,830]	(Osc.) 124 (27,875) [12,640]
	Frequency (L / H)	Hz (rpm)	67 / 50 ( 4,020 / 3,000)			
	Amplitude (L / H)	mm (in)	0.30 / 0.55 (0.012 / 0.022)	0.20 / 0.40 (0.008 / 0.016)	0.30 / 0.55 (0.012 / 0.022)	(Vib. / Osc.) 49 / 49 (2,940 / 2,940)
	Dynamic linear pressure for front drum - operating weight with AWNING (L / H)	N/cm (lbs/in)	637 / 684 (365 / 390)	667 / 714 (380 / 410)	660 / 701 (375 / 400)	Vibration 709 (405)
	Dynamic linear pressure for rear drum - operating weight with AWNING (L / H)	N/cm (lbs/in)	653 / 700 (375 / 400)	683 / 730 (390 / 415)	676 / 716 (385 / 410)	Vibration 725 (415)
	Number of speed shifts		6			
	Speed range (L / H)	km/h (mph)	0-2, 0-4, 0-6 / 0-4, 0-8, 0-13 (0-1.2, 0-2.5, 0-3.7 / 0-2.5, 0-5.0, 0-8.1)			
	Gradeability	% (°)	34 (19)	29 (16)		
	Turning radius compacted surface (inside / outside)	m (in)	3.7 / 5.1 (146 / 201)			
<b>DIMENSIONS</b>	Overall length <b>L</b>	mm (in)	4,300 (169)			
	Overall width <b>W</b>	mm (in)	1,615 (64)			
	Overall height (without AWNING) <b>H<sup>1</sup></b>	mm (in)	2,080 (82)	2,085 (82)	2,080 (82)	2,085 (82)
	Overall height (with AWNING) [fold / unfold] <b>H</b>	mm (in)	2,315 / 2,795 (91 / 110)	2,320 / 2,805 (91 / 110)	2,315 / 2,795 (91 / 110)	2,320 / 2,805 (91 / 110)
	Wheelbase <b>L<sup>1</sup></b>	mm (in)	3,100 (122)			
	Compaction width <b>W<sup>1</sup></b>	mm (in)	1,480 (58)			
	Drum width <b>W<sup>1</sup></b> / Drum diameter <b>R</b>	mm (in)	1,480 / 1,070 (58 / 42)	1,480 / 1,087 (58 / 43)	1,480 / 1,070 (58 / 42)	1,480 / 1,087 (58 / 43)
	Shell thickness	mm (in)	17 (0.7)	25.5 (1.0)	17 (0.7)	25.5 (1.0)
	Ground clearance	mm (in)	275 (11)	280 (11)	275 (11)	280 (11)
	Curb clearance	mm (in)	705 (28)	715 (28)	705 (28)	715 (28)
	Side clearance	mm (in)	67 (2.5)			
<b>ENGINE</b>	Make		KUBOTA			
	Model		V3307-DI-T-KDN (Interim Tier4) [SW652-1 Series] V3307-T [SW652-1K Series]			
	Type		Diesel, water cooled, 4 cycle, 4 cylinder, with turbo charger			
	Displacement	L (cu.in)	3.331 (203.3)			
	Rated output	kW (HP)/min <sup>-1</sup>	55.4 (74) / 2,200			
	Electric system battery	V (V / Ah x Qty)	12 V (12 V / 72 x 1)			
	Electric system alternator	V / A	12 V / 80 A			
<b>DRIVE SYSTEM</b>	Power transmission type		Hydrostatic			
	Drive wheel		All wheel (two drums)			
<b>VIBRATION SYSTEM</b>	Power transmission type		Hydraulic			
	Number of amplitude		2			
	Vibrator type		Single eccentric shaft	Double eccentric shafts		
<b>BRAKE SYSTEM</b>	Service brake		Dynamic braking through hydrostatic drive system / FNR lever			
	Secondary brake (Emergency brake)		Hydrostatic + Spring applied hydraulically released type (SAHR) / Brake pedal			
	Parking brake		SAHR / Panel button			
<b>STEERING SYSTEM</b>	Power transmission type		Hydraulic			
	Articulation / Oscillation angle	± (°)	39 / 9			
<b>FLUID CAPACITY</b>	Fuel tank	L (gal)	120 (31.7)			
	Hydraulic oil tank	L (gal)	51 (13.5)			
	Water sprinkler tank	L (gal)	300 (79.3) x 2			

- Specified figures have a tolerance of ±5%.
- All specifications may be changed without notice.
- Specified figures are in SI units, followed by their equivalent in English units of measurement in parentheses.
- Max. operating weight : Fuel=100%, Water=100%, Operator=75kg
- Operating weight : Fuel=50%, water=50%, operator=75kg
- The photos may contain optional equipment and/or attachment.

- \* Engine meets EPA standards for SW652-1 series.
- \* Using low quality fuel may cause engine failure.



ISO9001 certified Tokyo Head Office,  
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### Standard Equipment:

- AWNING ● Instrument panel ● Gauges ● Backup alarm ● Horn
- Comfort seat ● Front-facing working lights ● Rear-facing working lights
- Turn signal lamp ● Hazard lamp ● Mirrors ● Scrapers for both directions
- Independent vibration control ● Pressurized water sprinkler system
- Intermittent water spray timer ● 4 points lifting ● Accessory socket (12 V)

### Optional Equipment:

- ROPS CANOPY ● Rotary beacon ● Seatbelt ● Side sliding seat
- Vandalism protections