



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 "ND 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

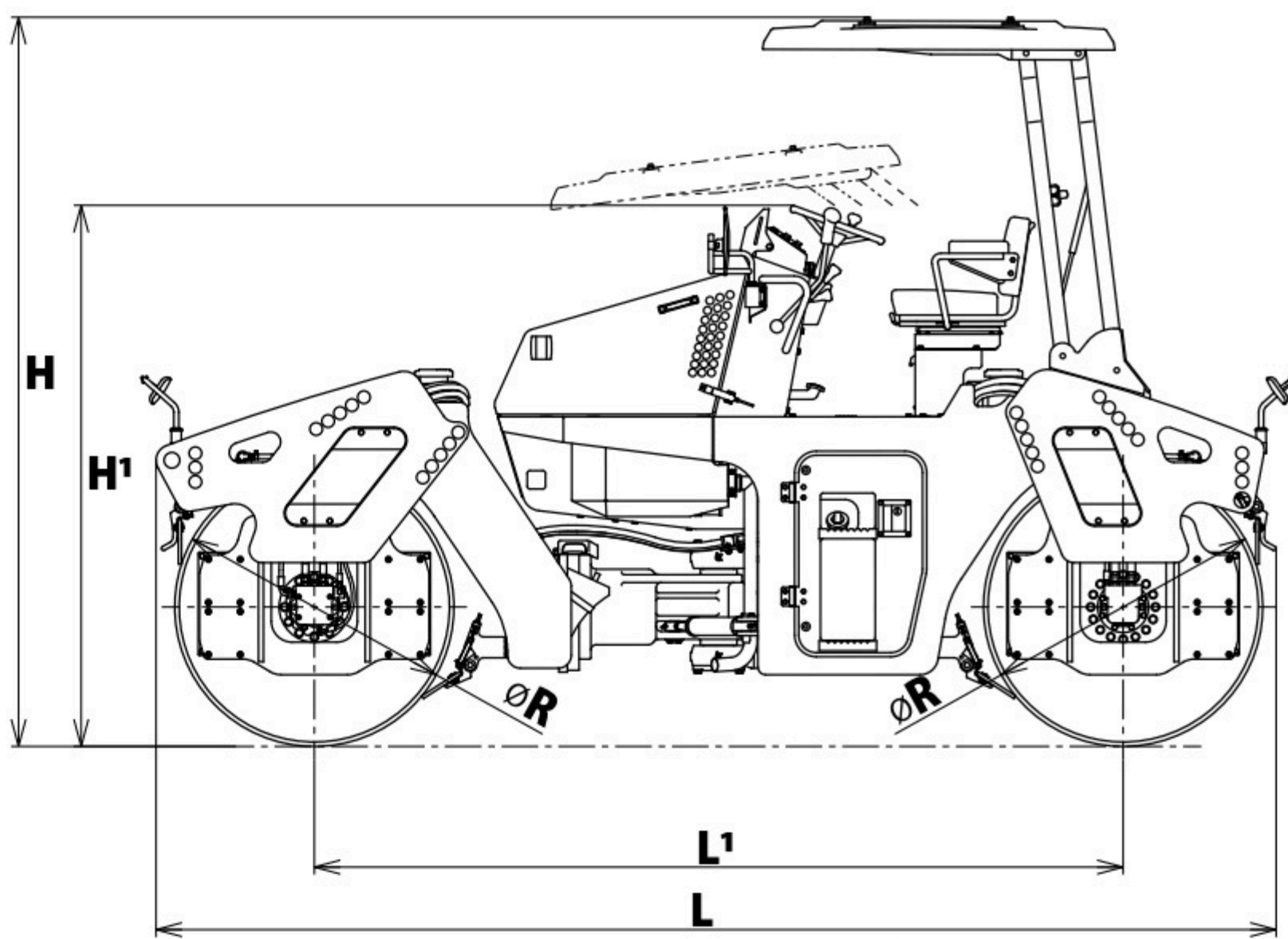
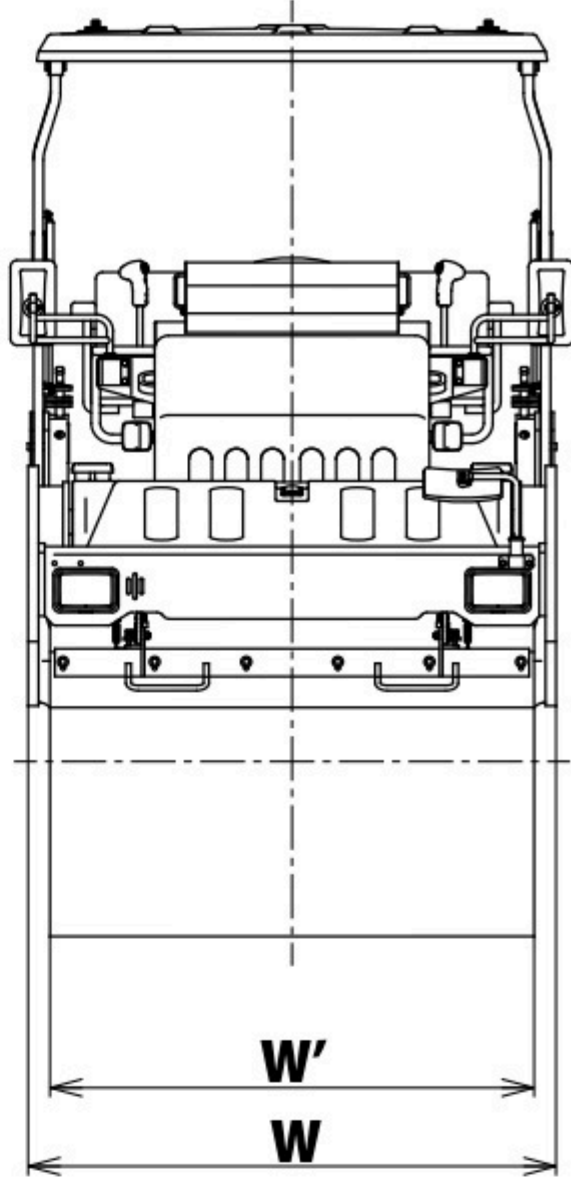


SW652ND-1



SW652H-1

SW652-1 SW652-1K Series



TYPE
MODEL

CHASSIS MODEL

WEIGHTS	Max. operating weight with AWNING	kg (lbs)
	Operating weight with AWNING	kg (lbs)
	Load on front axle - operating weight with AWNING	kg (lbs)
	Load on rear axle - operating weight with AWNING	kg (lbs)
PERFORMANCE	Centrifugal force (L / H)	kN (lbs) [kgf]
	Frequency (L / H)	Hz (vpm)
	Amplitude (L / H)	mm (in)
	Dynamic linear pressure for front drum — operating weight with AWNING (L / H)	N/cm (lbs/in)
	Dynamic linear pressure for rear drum — operating weight with AWNING (L / H)	N/cm (lbs/in)
	Number of speed shifts	
	Speed range (L / H)	km/h (mph)
	Gradeability	% (°)
	Turning radius compacted surface (inside / outside)	m (in)
	Overall length L	mm (in)
DIMENSIONS	Overall width W	mm (in)
	Overall height (without AWNING) H¹	mm (in)
	Overall height (with AWNING) [fold / unfold] H	mm (in)
	Wheelbase L¹	mm (in)
	Compaction width W¹	mm (in)
	Drum width W¹ / Drum diameter R	mm (in)
	Shell thickness	mm (in)
	Ground clearance	mm (in)
	Curb clearance	mm (in)
	Side clearance	mm (in)
ENGINE	Make	
	Model	
	Type	
	Displacement	L (cu.in)
	Rated output	kW (HP)/min ⁻¹
	Electric system battery	V (V/Ah× Qty)
	Electric system alternator	V/A
DRIVE SYSTEM	Power transmission type	
	Drive wheel	
VIBRATION SYSTEM	Power transmission type	
	Number of amplitude	
	Vibrator type	
BRAKE SYSTEM	Service brake	
	Secondary brake (Emergency brake)	
	Parking brake	
STEERING SYSTEM	Power transmission type	
	Articulation / Oscillation angle	± (°)
FLUID CAPACITY	Fuel tank	L (gal)
	Hydraulic oil tank	L (gal)
	Water sprinkler tank	L (gal)

Vibratory Tandem Roller			
SW652-1	SW652H-1	SW652ND-1	—
SW652-1K	SW652H-1K	—	SW652NDH-1K
1SW47 [SW652-1 Series]			
1SW52 [SW652-1K Series]			
7,180 (15,830)	8,080 (17,815)	7,480 (16,490)	8,140 (17,945)
6,820 (15,035)	7,720 (17,020)	7,120 (15,700)	7,780 (17,150)
3,290 (7,255)	3,740 (8,245)	3,440 (7,585)	3,770 (8,310)
3,530 (7,780)	3,980 (8,775)	3,680 (8,115)	4,010 (8,840)
62 / 69 (13,940 / 15,510) [6,320 / 7,040]		(Vib. / Osc.) 68 / 124 (15,285 / 27,875) [6,930 / 12,640]	
67 / 50 (4,020 / 3,000)		(Vib. / Osc.) 49 / 49 (2,940 / 2,940)	
0.30 / 0.55 (0.012 / 0.022)	0.20 / 0.40 (0.008 / 0.016)	(Vib. / Osc.) 0.52 / 0.75 (0.020 / 0.030)	(Vib. / Osc.) 0.39 / 0.53 (0.015 / 0.021)
637 / 684 (365 / 390)	667 / 683 (380 / 390)	Vibration 687 (390)	Vibration 709 (405)
653 / 700 (375 / 400)	714 / 730 (410 / 415)	Vibration 703 (400)	Vibration 725 (415)
6			
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)			
34 (19)	29 (16)	32 (18)	29 (16)
3.7 / 5.1 (146 / 201)			
4,300 (169)			
1,615 (64)			
2,080 (82)	2,085 (82)	2,080 (82)	2,085 (82)
2,315 / 2,795 (91 / 110)	2,320 / 2,805 (91 / 110)	2,315 / 2,795 (91 / 110)	2,320 / 2,805 (91 / 110)
3,100 (122)			
1,480 (58)			
1,480 / 1,070 (58 / 42)	1,480 / 1,087 (58 / 43)	1,480 / 1,070 (58 / 42)	1,480 / 1,087 (58 / 43)
17 (0.7)	25.5 (1.0)	17 (0.7)	25.5 (1.0)
275 (11)	280 (11)	275 (11)	280 (11)
705 (28)	715 (28)	705 (28)	715 (28)
67 (2.5)			
KUBOTA			
V3307-DI-T-KDN (Interim Tier4) [SW652-1 Series]			
V3307-DI-T-E2B-RRSH1 [SW652-1K Series]			
Diesel, water cooled, 4 cycle, 4 cylinder, with turbo charger			
3.331 (203.3)			
55.4 (74) / 2,200			
12V (12V / 72 x 1)			
12V / 80A			
Hydrostatic			
All wheel (two drums)			
Hydraulic			
2			
Single eccentric shaft			
Dynamic braking through hydrostatic drive system / FNR lever			
Hydrostatic + Spring applied hydraulically released type (SAHR) / Brake pedal			
SAHR / Panel button			
Hydraulic			
39 / 9			
120 (31.7)			
51 (13.5)			
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.



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Standard Equipment:

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

Optional Equipment:

- ROPS CANOPY ● Rotary beacon ● Seatbelt ● Side sliding seat ● Split drum