



SW800
with AWNING

VIBRATORY TANDEM ROLLER

10 ton double drum vibratory rollers for asphalt compaction

SW800: High Frequency (4000 vpm), Standard Vibration

The SW800 can be operated at 30–60% faster speed than those conventional vibratory roller of 2500 or 3000 vpm setting. Thus, the compaction work can be finished while asphalt mix is still hot and the SW800 makes smooth and dense mat.



SW800N
with AWNING

SW800N: Oscillation

The SW800N is a oscillatory (horizontal vibration) roller and is suitable for compaction of thin pavement (no crushing of aggregates), bridge (not affecting structure), or near residential area or IT factory (environmentally friendly operation).

Excellent Compaction Performance

(● for SW800 ● for SW800N ● for all models)

- Faster compaction speed without increasing impact spacing
- Easy selections of vibration settings via selector switches; Frequency, amplitude, auto/manual mode, drum selection
- There are gear driven oscillation mechanism and belt drive type. SAKAI SW800N employs the gear drive type that greatly reduces down time and cost for maintenance.

* The belt drive type required to replace belts periodically

Advantage of 4,000vpm vs 3,000vpm (SW800)

4,000 vpm	Speed: 6.0 km/h	Productivity: OK
	IPM: 40 (Impact space: 2.5cm)	Quality: OK
3,000 vpm	Speed: 6.0 km/h	Productivity: OK
	IPM: 40 (Impact space: 3.3cm)	Quality: NO
3,000 vpm	Speed: 6.0 km/h	Productivity: NO
	IPM: 40 (Impact space: 2.5cm)	Quality: OK

IPM: Number of Impacts per meter

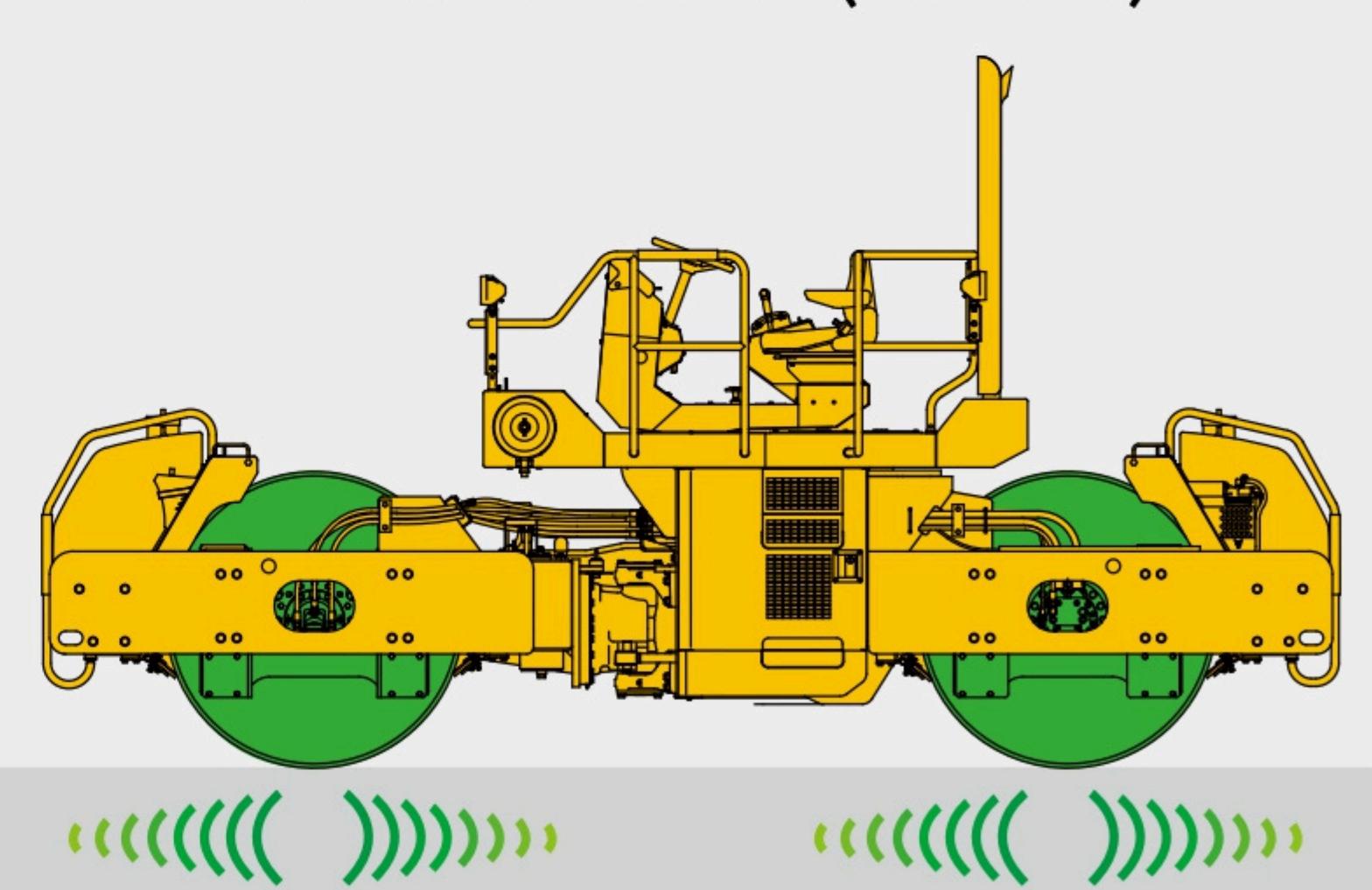
Reliable and Efficient Water Sprinkler System

- Sprinkler pipe covers against wind for constant spray
- Timer controlled intermittent spray
- Rust free water system
- Hand-dismounting type durable brass spray nozzles
- Triple filtering system, complete water drain for winterization

Operator Comfort and Safety Features

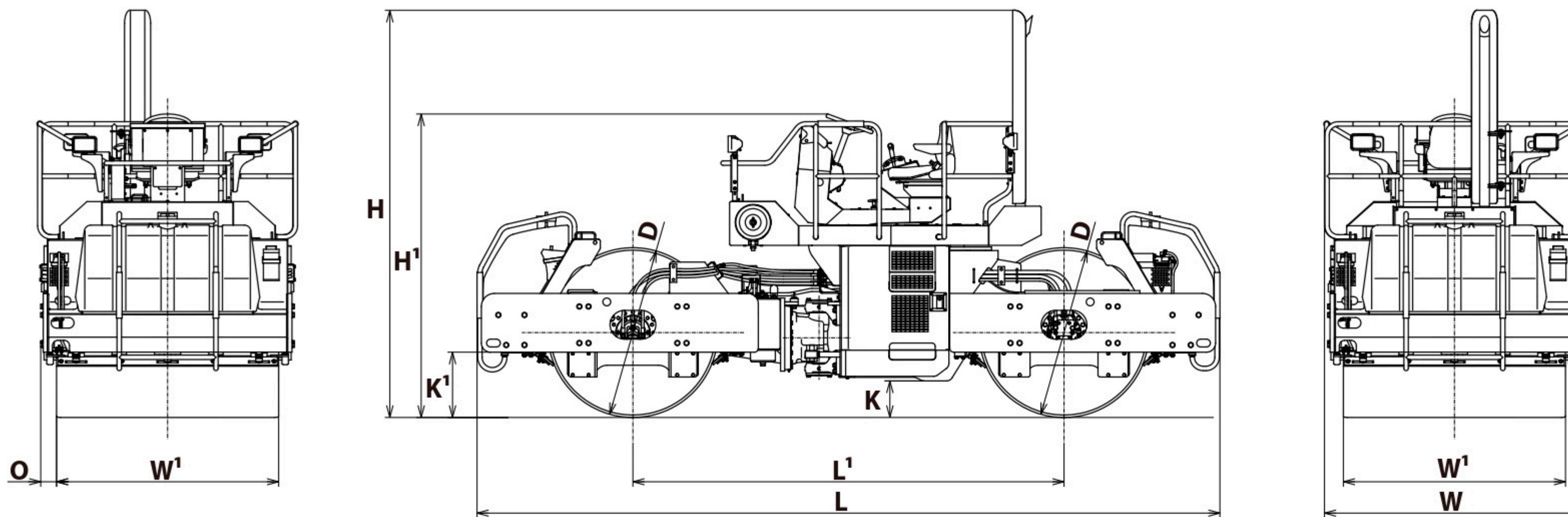
- 180 degree swiveling operator console
- SAKAI's original shock absorbing system for better vibration isolation and longer parts life
- Emergency pedal brake for additional safety

View of Oscillation (SW800N)



The photos may contain optional equipment and/or attachment.

SW800·800N



TYPE MODEL	Vibratory Tandem Roller - High Frequency		Vibratory Tandem Roller - Oscillation
	SW800	SW800N	
WEIGHTS	Max. operating weight kg (lbs.)	10,480 (23,105)	10,890 (24,010)
	Operating weight kg (lbs.)	9,880 (21,780)	10,290 (22,685)
	Load on front kg (lbs.)	4,560 (10,055)	4,770 (10,515)
	Load on rear kg (lbs.)	5,320 (11,730)	5,520 (12,170)
	Static Linear Pressure, front kg/cm (lbs./in.)	26.8 (150)	28.1 (155)
	Static Linear Pressure, rear kg/cm (lbs./in.)	31.3 (175)	32.5 (180)
PERFORMANCE	Centrifugal force (each drum)	Low amp.	High amp.
	@ 4,000 vpm (66.7 Hz) frequency kN (lbs.) [kgf]	121 (27,115) [12,300]	—
	@ 3,000 vpm (50 Hz) frequency kN (lbs.) [kgf]	68 (15,210) [6,900]	108 (24,250) [11,000]
	@ 2,500 vpm (41.7 Hz) frequency kN (lbs.) [kgf]	47 (10,580) [4,800]	76 (16,975) [7,700]
	Amplitude mm (in)	0.33 (0.013)	0.55 (0.022)
	Number of speeds	2	
	Speed range (L / H) km/h (mph)	0-8 / 0-13 (0-5 / 0-8.1)	0-7 / 0-11 (0-4.3 / 0-6.8)
	Gradeability % (°)	33% (18)	
	Turning radius at compacted surface (inner / outer) m (in)	4.0 / 5.9 (158 / 231)	
DIMENSIONS	Overall length L mm (in)	5,690 (224)	
	Overall width W mm (in)	2,000 (79)	
	Overall height at the top of steering wheel H ¹ mm (in)	2,325 (92)	2,310 (91)
	Overall height at the top of exhaust pipe H mm (in)	3,120 (123)	3,105 (122)
	Overall height with canopy mm (in)	3,130 (123)	3,115 (123)
	Overall height with ROPS canopy mm (in)	3,210 (126)	3,195 (126)
	Wheelbase L ¹ mm (in)	3,300 (130)	
	Compaction width W ¹ mm (in)	1,700 (67)	
	Drum width W ¹ / Drum diameter D mm (in)	1,700 x 1,300 (67 x 51)	1,700 x 1,270 (67 x 50)
	Ground clearance K mm (in)	280 (11)	265 (10.4)
	Curb clearance K ¹ mm (in)	500 (19.6)	485 (19)
	Side overhang-each side O mm (in)	121 (4.7)	
ENGINE	Make	Isuzu	
	Model	4BG1 TRB-06 (EPA-Tier 2 equivalent)	
	Type	Water-cooled, 4-cycle, 4-cylinder, overhead valve, direct injection type diesel engine with turbo charger	
	Displacement L (cu.in)	4.329 (264.2)	
	Rated output kW(HP)/min ⁻¹	86.7 (116) / 2,500	
	Electrical system-battery V (V / Ah x Qty)	24 V (12 V / 100 Ah x 2)	
	Electrical system-alternator V / A	24 V / 50 A	
DRIVE SYSTEM	Power transmission type	Hydrostatic	
	Drive wheel	Both drums	
VIBRATION SYSTEM	Power transmission type	Hydraulic	
	Vibrator type	Single eccentric shaft type	
BRAKE SYSTEM	Service brake (Primary)	Hydrostatic, dynamic type (FNR lever)	
	Parking brake (Secondary)	Spring applied, hydraulically released type multi-discs brake (Parking brake button)	
	Emergency brake	Hydrostatic + Spring applied, hydraulically released type (Brake pedal)	
STEERING SYSTEM	Type	Hydraulic type (articulated)	
	Articulation / Oscillation angle ± (°)	±37 ° / ±6.5°	
FLUID CAPACITY	Fuel tank L (gal)	220 (58.1)	
	Hydraulic oil tank L (gal)	80 (21.1)	
	Water sprinkler tank L (gal)	500 x 2 (132.1 x 2)	

- The specified figure have a tolerance of ± 5%.
- All specifications may be changed without notice.
- The specified figures are in SI Unit, followed by their equivalent English Unit of measurement in ().

- Maximum operating weight includes 100% fuel, 100% water and a operator of 75 kg.
- Operating weight includes 50% fuel, 50% water and a operator of 75 kg.

Standard Equipment:

- Instrument panel
- Gauges
- Scrapers for both directions
- Horn
- 180 degree swivel seat
- Front-facing working lights
- Rear-facing working lights
- Front/rear independent vibration control
- Pressurized water sprinkler system
- Intermittent water spray timer
- Vandalism protection

Optional Equipment:

- AWNING
- ROPS-Canopy w/ seat belt
- CABIN
- Air conditioner
- Heater