

SAKAI®

SW300-1·320-1·330-1 TW320-1·330-1

Asphalt Roller



SW330-1



TW330-1

VIBRATORY TANDEM ROLLER

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

Powerful Performance

- Vibration frequency of 66.7Hz (4,000vpm) allows highly efficient compaction with optimum impact spacing without sacrificing speed.
- Achieves clean surface finish with unique-to-SAKAI rotational direction of vibration shaft (counter rotating).
- Forward, Neutral & Reverse lever on each side of the machine and Operator's Bench Seat allow for excellent Drum Edge visibility.
- Excellent gradability.
- Applicable to a wide range of job applications due to its high curb clearance, side overhang, long wheel base and other specifications.
- Non-corrosive water spray system allows for excellent drum coverage.
- Vibration switch in the Forward, Neutral & Reverse lever and Auto-vibration mode allow timely On-Off control.
- Cross mounted hydraulic drive motors on the front and rear drums keep the roller driving straight even at slower speeds.

Comfort and Safety

- Emergency brake pedal is similar to an automobile brake system. Hydrostatic and multi-disc brake systems applied simultaneously for added safety.
- Excellent 360-degree visual angle for added safety.

Simplified Maintenance

- One-touch mounting water spray nozzles can be removed without any tools, thus making nozzle replacement a breeze.



SW300-1

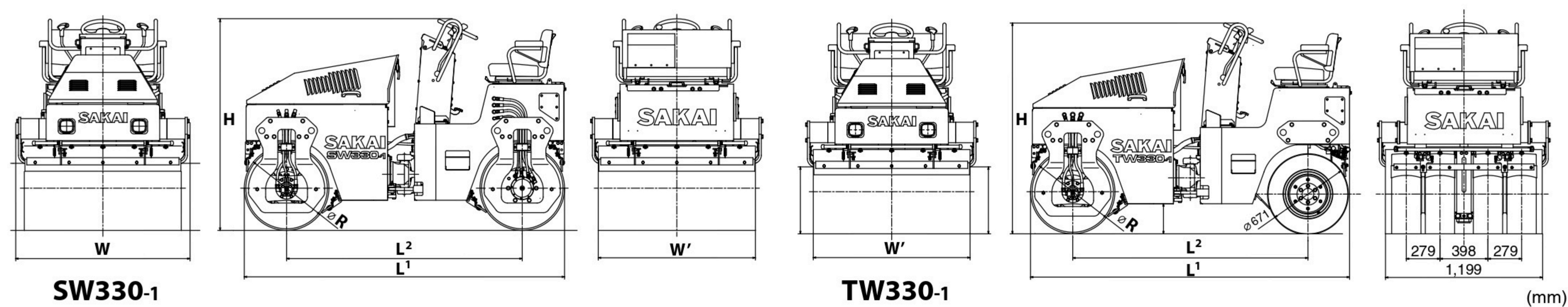


SW320-1
TW320-1



SW330-1
TW330-1

SW300-1·320-1·330-1 / TW320-1·330-1



TYPE			Vibratory Tandem Roller			Vibratory Combined Roller		
MODEL			SW300-1	SW320-1	SW330-1	TW320-1	TW330-1	
CHASSIS MODEL			4SW49	4SW50	4SW51	4TW50	4TW51	
WEIGHTS	Operating weight	kg (lbs)	2,725 (6,010)	2,890 (6,370)	2,970 (6,550)	2,710 (5,975)	2,750 (6,060)	
	Empty weight	kg (lbs)	2,545 (5,610)	2,710 (5,970)	2,790 (6,150)	2,520 (5,555)	2,560 (5,645)	
	Load on front axle (operating weight)	kg (lbs)	1,315 (2,900)	1,400 (3,085)	1,440 (3,175)	1,410 (3,110)	1,450 (3,195)	
	Load on rear axle (operating weight)	kg (lbs)	1,410 (3,110)	1,490 (3,285)	1,530 (3,375)	1,300 (2,865)		
PERFORMANCE	Centrifugal force	kN (lbs)[kgf]	27.5 (6,175)[2,804]	31.4 (7,055)[3,202]				
	Frequency	Hz (vpm)	66.7 (4,000)					
	Amplitude	mm (in)	0.32 (0.013)	0.33 (0.013)	0.28 (0.011)	0.33 (0.013)		
	Dynamic linear pressure for front roll (operating weight)	N/cm (lb/in)	404 (231)	376 (215)	350 (200)	377 (215)	351 (200)	
	Dynamic linear pressure for rear roll (operating weight)	N/cm (lb/in)	413 (236)	383 (219)	357 (204)	–	–	
	No. of speeds		1					
	Speed range (Forward & Reverse)	km / h (mph)	0–12.0 (0–7.5)			0–11.7 (0–7.3)		
	Gradability	% (°)	43 (23)	40 (21)	38 (20)	40 (21)	38 (20)	
	Min. turn radius (outer)	m (in)	3.7 (146)	3.8 (150)				
	DIMENSIONS	Overall length L ¹	mm (in)	2,650 (104)			2,645(104)	
		Overall width W	mm (in)	1,130 (44)	1,330 (52)	1,430 (56)	1,330 (52)	1,430 (56)
		Overall height H	mm (in)	1,750 (69)				
Wheelbase L ²		mm (in)	1,950 (77)					
Compaction width W'		mm (in)	1,000 (39)	1,200 (47)	1,300 (51)	1,200 (47)	1,300 (51)	
Drum diameter R / Drum width W'		mm (in)	700 (28) / 1,000 (39)	700 (28) / 1,200 (47)	700 (28) / 1,300 (51)	700 (28) / 1,200 (47)	700 (28) / 1,300 (51)	
Shell thickness		mm (in)	13 (0.5)					
Tire size × Number of tires			–			9.5 / 65 - 15 - 6PR (OR) × 4		
Inflation (each wheel)		kPa (psi)	–			294 (42.6)		
Ground clearance		mm (in)	250 (10.0)					
Curb clearance		mm (in)	550 (21.5)					
Side clearance		mm (in)	65 (2.6)					
ENGINE		Make		KUBOTA				
		Model		D1703 - M - ET01 (EPA Interim Tier 4)				
	Type		Diesel, water cooled, 4 cycle, 3 cylinder					
	Displacement	L (cu.in)	1.647 (100.5)					
	Rated output	kW (HP)/min ⁻¹	26.1 (35.0) / 2,800					
	Electric system battery	V (V / Ah × Qty)	12 (12 / 80 × 1)					
	Electric system alternator	V / A	12 / 60					
	POWER LINE	Transmission		Hydrostatic transmission				
Type			Hydraulic					
Drive wheel			All Wheel					
VIBRATION SYSTEM	Drive		Hydrostatic					
	Amplitude control		Single					
	Vibrator		Eccentric shaft type					
BRAKE SYSTEM	Service(working)		Hydrostatic dynamic brake through drive system / FNR Lever					
	Secondary(emergency)		Hydrostatic + Spring-applied hydraulically released (SAHR) / Brake pedal					
	Parking(parking)		SAHR / Panel button					
STEERING SYSTEM	Type		Hydraulic type (Articulated)					
	Articulation / Oscillation	± (°)	35 / 7.5					
FLUID CAPACITY	Fuel tank	L (gal)	50 (13.2)			43 (11.4)		
	Hydraulic tank	L (gal)	42 (11.1)					
	Sprinkler tank	L (gal)	180 (48)					
	Liquid tank	L (gal)	–			10 (2.6)		

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

Standard Equipment:

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

Optional Equipment:

- AWNING ● ROPS CANOPY ● PROTECTION BAR
- Working light ● Independent vibration control (SW)