SW800·SW850·SW900

Vibrating Roller

Double Drum Vibratory Roller, articulated, fully hydrostatic drive, including high frequency vibration for Superpave mix

SW800
10.4ton/1.7m (22,930lb/67")

SW850
12.5ton/2.0m (27,560lb/79")

ROPS Type (Option)

SAKAI®

Rollers with a versatile vibration system effective for Superpave, HMA, SMA & base material, incorporated into operator friendly design.

Features

☆ Efficiency

- Three frequencies (2,500vpm, 3,000vpm and 4,000vpm) with dual amplitude vibration settings make the SW800, SW850 and SW900 very versatile rollers, applicable to asphalt pavement as well as base course.
- The 4,000vpm high frequency setting is especially effective for superpave compaction. With this high frequency mode, the compaction work is sped up and a smoother surface is achieved due to closer impact spaces.
- Large diameter drums keep the pavement surface smooth and avoid hairline cracks.
- The directions of vibrator's rotation are arranged so that all effective compaction force is applied to the ground and uncomfortable vibration does not reach the operator station.
- Drive motors and vibration motors are cross-mounted between front and rear drums. This design balances the SW800, SW800N, SW850 and SW900 not only front and rear, but also right and left. This feature keeps the machines rolling straight even at very slow speeds.

☆ Easy operation and operator comfort

- The 180 degree rotating MPOS (multi-position operator station) provides all around visibility as well as a view of drum edges regardless of the direction of travel. The rotation of the operator station is smooth and effortless. The instrument panel is always located in front of the operator so that the monitoring of gauges and instruments is very easy.
- Like SAKAI's other vibratory rollers, the SW800, SW800N, SW850 and SW900 employ a patented,unique vibration isolation system that offers the best riding comfort and a longer service life for its rubber isolators.
- The pressurized and fully corrosion-proof water sprinkler system includes two large capacity polyethylene tanks which have a large filler opening, stainless pipes and quick-mount type brass spray nozzles along with a triple filtering system. This system includes an emergency back up when a water pump fails or one tank becomes empty. The wind protection cover for each spray bar keeps drums constantly wet even on windy days. This protective guard is provided for each tank.

☆ Excellent serviceability

- The engine and hydraulic components are protected in a fully enclosed compartment with wide service doors. In addition, these components are accessible from the ground.
- The hydraulic system includes centralized pressure gauge ports.
- Quick-mount water spray nozzles can be mounted or dismounted without tools. They are made of brass, giving them unsurpassed durability.
- A large ball bearing and taper bearings are employed in the center-pin mechanism to prolong the service life and lubrication intervals.

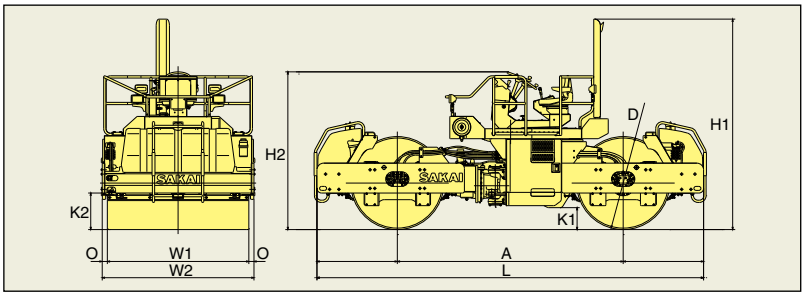
☆ High safety standards

- The low center of gravity design assures stable drive even over rough surfaces and 1m-1m visibility are standard features of the SW800, SW800N, SW850 and SW900.
- In addition to a hydrostatic primary brake system and spring-applied, hydraulically released (SAHR) secondary brake, a foot brake is provided for emergency stops.

☆ Standard equipment

- Standard equipment includes instruments, gauges, spring-loaded outer and inner scrapers, head lamps, working lamps, back-up alarm and horn.
- SAKAI recommends ROPS (Roll-over protective structures) and ROPS is standard in North America.

Dimensions



	SW800	SW800N	SW850	SW900
A	3,300 (130)		3,400 (134)	
D	1,300 (51)	1,270 (50)	1,400 (55)	
H1	3,120 (123)	3,105 (122)	3,170 (125)	
H2	2,290 (90)	2,275 (90)	2,340 (92)	
K1	280 (11)	265 (10)	330 (13)	
K2	500 (19.5)	485 (19.0)	550 (21.5)	
L	5,620 (221)		5,820 (229)	
O	102.5 (4)			77.5 (3)
W1	1,700 (67)		2,000 (79)	2,130 (84)
W2	1,905 (75)		2,205 (87)	2,285 (90)

mm (in)

Specifications

MODEL		SW800	SW800N	SW850	SW900
WEIGHTS					
Gross weight	kg (lb)	10,400 (22,930)	10,810 (23,830)	12,500 (27,560)	13,000 (28,660)
Load on front axle	kg (lb)	5,050 (11,130)	5,260 (11,595)	6,050 (13,340)	6,300 (13,890)
Load on rear axle	kg (lb)	5,350 (11,800)	5,550 (12,235)	6,450 (14,220)	6,700 (14,770)
SPEEDS (F & R)					
1st	km / h (mile / h)	0 - 7.5 (0 - 4.7)	0 - 6.5 (0 - 4.0)	0 - 7.0 (0 - 4.3)	0 - 6.7 (0 - 4.2)
2nd	km / h (mile / h)	0 - 12.5 (0 - 7.7)	0 - 11.0 (0 - 6.8)	0 - 11.0 (0 - 6.8)	0 - 10.5 (0 - 6.5)
VIBRATING POWER					
Low amp.	67Hz (4,000vpm)	121 (27,120)	—	148 (33,290)	173 (38,800)
	50Hz (3,000vpm)	68 (15,210)	—	82 (18,520)	97 (21,830)
	42Hz (2,500vpm)	47 (10,580)	—	58 (13,010)	68 (15,210)
High amp.	50Hz (3,000vpm)	108 (24,250)	—	141 (31,750)	167 (37,480)
	42Hz (2,500vpm)	76 (16,980)	—	100 (22,490)	116 (26,010)
Nutation amp.	50Hz (3,000vpm)	—	123 (27,650)	—	—
ROLLING WIDTH	mm (in)	1,700 (67)		2,000 (79)	2,130 (84)
MIN. TURNING RADIUS	m (in)	6.0 (237)		6.3 (248)	6.6 (260)
GRADABILITY	% (°)	33 (18.3)		31 (17.2)	30.5 (17.0)
ENGINE					
Model	ISUZU	"DD-4BG1T"			"BB-6BG1T"
Type		Diesel Engine EPA Tier, Water-cooled, 4 cycle			
Rated output	kW (HP) / min^{-1}	90 (121) / 2,300			124 (166) / 2,200
TRANSMISSION	Type	Hydrostatic transmission			
BRAKE SYSTEM					
Service brake		Hydrostatic & mechanical, multi - wet disc type			
Parking brake		Mechanical, multi - wet disc type			
STEERING SYSTEM		Hydraulic type (Articulated type)			
DRUMS	Use F & R drum	Vibrate & Drive			
	Suspension system	Rubber damper type			
SPRINKLER SYSTEM		Pressurized type			
CAPACITY					
Fuel tank	L (gal)	220 (58)		250 (66)	270 (71)
Sprinkler tank	L (gal)	500 (132) × 2		600 (159) × 2	600 (159) × 2

* Specifications are subject to change without notice.
* Engine meets EPA and CARB standards.

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