

# SAKAI®

# SW880-1 SW990-1

Asphalt Roller



SW990-1

## Vibratory Tandem Roller

**High Frequency Vibratory Asphalt rollers are literally the fastest rollers available – featuring a high frequency of over 4,000 vpm – designed to beat the tender zone on Superpave and other perpetual pavement mixes.**

### Best compaction quality and efficiency

- EXACT COMPACT METER matches the speed for obtaining proper impacts per foot
- Frequency and amplitude can be switched on/off at the operator seat while the roller is in motion
- Cross-mounted drive and vibration motors eliminate machine torque on the mat
- Counter rotation of eccentric weights inside the front and rear drums. Horizontal components of centrifugal force are cancelled

### Operator comfort

- Multi-position operator station (MPOS) (5 positions)
- 180 easy-rotating operator console
- Lunch box table and Cup holder are standard

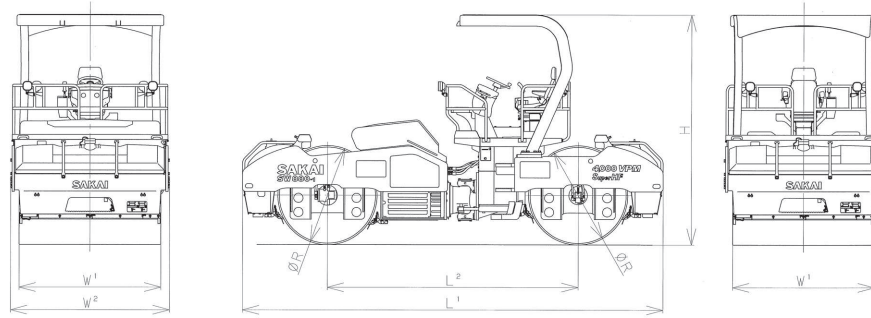
### High Safety Standard

- Emergency brake pedal is standard
- SAHR (spring-applied, hydraulic released) for parking and emergency auto brake
- Low profile design
- 39 in x 39 in visibility
- ROPS and Seat belts are standard

[www.sakaiamerica.com](http://www.sakaiamerica.com)

Options shown. Contact your dealer for details.

# SW880-1 SW990-1



| TYPE                                     |  |               | Vibratory Tandem Roller   |                 |
|--|--|---------------|---|-----------------|
| MODEL                                    |  |               | SW880-1   | SW990-1         |
| CHASSIS MODEL                            |  |               | 4SW65   | 4SW67           |
| MASS                                     | Operating mass                           | kg (lbs)      | 12,870 (28,375)   | 13,250 (29,210) |
|  | Load on front axle (with Operating mass) | kg (lbs)      | 6,340 (13,975)  | 6,520 (14,375)  |
|  | Load on rear axle (with Operating mass)  | kg (lbs)      | 6,530 (14,395)  | 6,730 (14,835)  |
| PERFORMANCE                              | Centrifugal force                        | kN (lbs)[kgf] | Low : 160 / 90 / 63 (35,970 / 20,230 / 14,160)[16,315 / 9,180 / 6,425]<br>High : 177 / 123 (39,790 / 27,650)[18,050 / 12,540] |                 |
|  | Frequency                                | Hz (vpm)      | Low : 66.7 / 50.0 / 41.7 (4,000 / 3,000 / 2,500) High : 50.0 / 41.7 (3,000 / 2,500)   |                 |
|  | No. of amplitude                         |               | 2   |                 |
|  | Amplitude (L / H)                        | mm (in)       | 0.33 / 0.64 (0.013 / 0.025)   |                 |
|  | Dynamic linear pressure for front drum   | N/cm          | Low : 1,111 / 761 / 626 (634 / 434 / 357)   |                 |
|  | [with Operating mass]                    | (lb/in)       | High : 1,196 / 926 (683 / 529)  |                 |
|  | Dynamic linear pressure for rear drum    | N/cm          | Low : 1,120 / 770 / 635 (640 / 440 / 363)   |                 |
|  | [with Operating mass]                    | (lb/in)       | High : 1,205 / 935 (688 / 534)  |                 |
|  | No. of speeds                            |               | 2   |                 |
|  | Speed range                              | km/h (mph)    | 0 - 7.2@4,000vpm, 0 - 5.5@3,000vpm, 0 - 4.5@2,500vpm / 0 - 11 (0 - 4.5, 0 - 3.4, 0 - 2.8 / 0 - 6.8)                           |                 |
| Gradeability                             | % (°)                                    | 29 (16)       |   |                 |
| Turning radius outside compacted surface | m (in)                                   | 6.3 (249)     |   |                 |
| DIMENSIONS                               | Overall length L1                        | mm (in)       | 5,940 (234)   |                 |
|  | Overall width W2                         | mm (in)       | 2,245 (88)  |                 |
|  | Overall height (without ROPS)            | mm (in)       | 2,375 (94)  |                 |
|  | Overall height (with ROPS) H             | mm (in)       | 3,250 (128)   |                 |
|  | Wheelbase L2                             | mm (in)       | 3,540 (139)   |                 |
|  | Compaction width W1                      | mm (in)       | 2,000 (79)  |                 |
|  | Drum width W1 / Drum diameter R          | mm (in)       | 2,000 / 1,400 (79 / 55)   |                 |
|  | Shell thickness                          | mm (in)       | 22 (0.9)  |                 |
|  | Ground clearance                         | mm (in)       | 335 (13.1)  |                 |
|  | Curb clearance                           | mm (in)       | 750 (29.6)  |                 |
|  | Side clearance                           | mm (in)       | 121 (4.8)   |                 |
|  | 97 (3.9)                                 |               |   |                 |
|  | ENGINE                                   | Make          |   | CUMMINS         |
| Model                                    |  |               | QSB4.5  |                 |
| EPA emission standard                    |  |               | EPA Interim Tier 4  |                 |
| Type                                     |  |               | Diesel, water cooled, 4 cycle, 4 cylinder   |                 |
| Displacement                             |  | L (cu.in)     | 4.457 (272.0)   |                 |
| Rated output                             |  | kW (HP)/min-1 | 107.6 (144) / 2,500   |                 |
| Electric system battery                  |  | V (VCCA×Qty)  | 12 (12 / 760×2)   |                 |
| Electric system alternator               |  | V/A           | 12 / 130  |                 |
| DRIVE SYSTEM                             | Transmission type                        |               | Hydrostatic   |                 |
|  | Drive wheel                              |               | All wheel   |                 |
| VIBRATION SYSTEM                         | Power transmission type                  |               | Hydraulic   |                 |
|  | Vibrator type                            |               | Double eccentric shafts   |                 |
| BRAKE SYSTEM                             | Service brake                            |               | Dynamic brake through hydrostatic drive system / F-N-R lever  |                 |
|  | Secondary brake (Emergency brake)        |               | Hydrostatic + Spring applied hydraulically released type (SAHR) / Brake pedal   |                 |
|  | Parking brake                            |               | SAHR / Panel button   |                 |
| STEERING SYSTEM                          | Type                                     |               | Hydraulic (Articulated)   |                 |
|  | Steering / Oscillating angle             | ± (°)         | 36.7 / 6.5  |                 |
| FLUID CAPACITY                           | Fuel tank                                | L (gal)       | 292 (77.1)  |                 |
|  | Hydraulic oil tank                       | L (gal)       | 61 (16.1)   |                 |
|  | Water sprinkler tank                     | L (gal)       | 600 (158.5)×2   |                 |

- Operating mass : Fuel=50%,Water=50%,Operator=75kg.
- 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.
- The photos may contain optional equipment and/or attachment.

#### Optional equipment

- Working lights • Rotary beacon • ROPS(Low profile)



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