



FLORIDA SHERIFFS ASSOCIATION BID FSA18-EQU18.0
ITEM #355 COMPACTION VIBRATORY ROLLER

Base SW884 Double Drum Asphalt Roller
Base machine meets all specifications

FSA20-EQU18.0

Large 22,000 LB Double Drum Roller 70"

1. WEIGHT: a. Minimum operating weight 22,000 lbs 2. DRUM/VIBRATORY SYSTEM: a. Drum compaction width on both drums no less than 70" b. Drum shall be smooth and not less than 48" in diameter c. Vibratory system shall be hydraulically driven d. Drum shall be equipped with scrapers both front and rear of both drums e. Drum shall be hydraulically driven and have two (2) amplitude settings 3. ENGINE: a. Diesel engine of not less than 100 HP b. Reverse alarm for reverse operations 4. TRAVEL SYSTEM: a. The machine shall be hydrostatically driven b. Steering shall be center articulated and oscillated 5. MISCELLANEOUS: a. Unit shall be equipped with pressurized water for both drums b. Electrical system shall be 12 or 24 volt

Specifications	FSA	SW884
1a Weight	22,000	30,005
2a Drum Width	70"	79"
2b Drum diameter	48"	55"
2c Vibration system	Hydraulic	Hydraulic
2d Scrapers	F/R	F/R
2e Amplitude	Dual	Dual
3a Engine	100HP	130HP
3b Reverse alarm	Required	Yes
4a Drive system	Hydrostatic	Hydrostatic
4b Steering system	Artic./Oscil.	Artic./Oscil.
5a Water system	Press/both drums	Press/both drums
5b Electrical	12V or 24V	12V

The SW884 meets all technical specifications for this bid.



Oscillatory/Vibratory Tandem Rollers

SW884 & SW884ND

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

- Sakai's new Eco compaction mode (ECM), which reduces fuel consumption up to 10%
- EXACT COMPACT METER matches speed for obtaining the correct number of IPF (impacts per foot)
- Frequency and amplitude modes can be switched from the seat
- Cross-mounted drive and vibration motors help maintain even weight distribution
- Counter rotation of eccentric weights in the drums cancel horizontal force
- Timer, auto or constant operated water spray system
- Osc achieves density on no-vibe jobs where structural integrity is of concern

Operator Comfort

- Multi-position operator station (MPOS) (5 positions)
- 180° easy rotating operator console
- Lunch box table and cup holder
- Excellent drum edge visibility from the operator seat
- Digital programmable cruise control

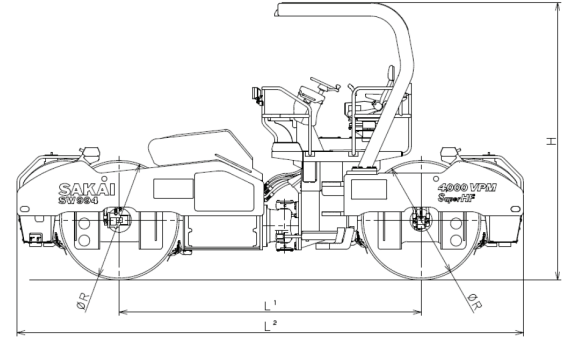
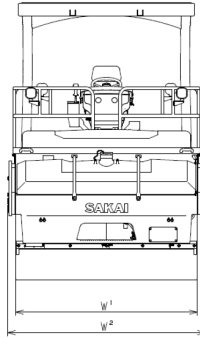
High Safety Standard

- Sakai proprietary emergency brake pedal which kills the engine and stops the machine instantly.
- 3 inch retractable seat belt
- 39 inches of visibility to the front and rear from the operators seat
- Low profile design
- SAHR (spring applied - hydraulic released) brake

Easy Maintenance

- Sprinkler system with plastic water tanks, triple-filtration, removable brass nozzles for ease of maintenance with pressurized winterization
- Easy ground level access to all check points
- Ground level access to all consumable items such as filters
- Long life drum isolators
- Gear drive Osc/Vibe system (no belts)

SW884 Series



MODEL		SW884	SW884ND
WEIGHTS	Max. operating weight with ROPS	13,610 (30,005)	13,950 (30,755)
	Operating weight with ROPS	12,890 (28,415)	13,230 (29,165)
	Load on front axle - operating weight with ROPS	6,350 (14,000)	6,520 (14,374)
	Load on rear axle - operating weight with ROPS	6,540 (14,420)	6,710 (14,795)
PERFORMANCE	Centrifugal force	Low : 160 / 90 / 63 (35,970 / 20,230 / 14,160) Hi : 177 / 123 (39,790 / 27,650)	Vibe : 158 (35,585) Osci : 172 (38,600)
	Frequency	Low : 66.7 / 50.0 / 41.7 (4,000 / 3,000 / 2,500) Hi : 50.0 / 41.7 (3,000 / 2,500)	Vibe : 50 (3,000) Osci : 46.7 (2,800)
	Amplitude	0.33 / 0.64 (0.013 / 0.025)	Vibe : 0.55 (0.022) Osci : 0.60 (0.024)
	Dynamic linear pressure for front drum - operating weight with ROPS	Low : 1,111 / 761 / 626 (635 / 435 / 358) Hi : 1,196 / 926 (683 / 529)	Vibe : 1,111 (635)
	Dynamic linear pressure for rear drum - operating weight with ROPS	Low : 1,121 / 771 / 636 (640 / 440 / 363) Hi : 1,206 / 936 (688 / 534)	Vibe : 1,121 (640)
	Number of speed shifts	2	2
	Speed range (L / H)	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)	0 - 5.5@Vibe, 0 - 6.4@Osci / 0 - 11 (0-3.4, 0-4 / 0 - 6.8)"
	Gradeability	29 (16)	28 (15)
	Turning radius compacted surface (inside / outside)	4.3 / 6.3 (170 / 249)	4.3 / 6.3 (170 / 249)
	Overall length L ²	5,940 (234)	5,940 (234)
DIMENSIONS	Overall width W ²	2,245 (88)	2,245 (88)
	Overall height (without ROPS)	2,375 (94)	2,360 (93)
	Overall height (with ROPS) H	3,250 (128)	3,235 (127)
	Wheelbase L ¹	3,540 (139)	3,540 (139)
	Compaction width W ¹	2,000 (79)	2,000 (79)
	Drum width W ¹ / Drum diameter R	2,000 / 1,400 (79 / 55)	2,000 / 1,370 (79 / 54)
	Shell thickness	22 (0.9)	21 (0.8)
	Ground clearance	335 (13.1)	320 (12.5)
	Curb clearance	750 (29.6)	735 (29.0)
	Side clearance	121 (4.8)	121 (4.8)
ENGINE	Make	CUMMINS	
	Model	QSF3.8	
	EPA emission standard	EPA Tier 4	
	Type	Diesel, water cooled, 4 cycle, 4 cylinder, with turbo charger	
	Displacement	3.800 (229.0)	
	Rated output	97.0 (130) / 2,200	
	Electric system battery	12(12 / 1000×1)	
	Electric system alternator	12 / 135	
DRIVE SYSTEM	Power transmission type	Hydrostatic	
	Drive wheel	All wheel (2 drums)	
VIBRATION SYSTEM	Power transmission type	Hydraulic	
	Number of amplitude	2	
	Vibrator type	Double eccentric shafts	
BRAKE SYSTEM	Service brake	Dynamic braking 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	Power transmission type	Hydraulic	
	Articulation / Oscillating angle	± (°) 36.7 / 6.5	
FLUID CAPACITY	Fuel tank	292 (77.1)	
	Hydraulic oil tank	65 (17.2)	
	Water sprinkler tank	2×600 (2×158.5)	
	DEF tank	19 (5.0)	

- 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.

- Optional equipment
- ROPS(Low profile)
 - CABIN
 - Rear-view mirror
 - LED working lights
 - LED drum light kit
 - Coco mats
 - Rotary beacon