

SAKAI

MASTERS OF COMPACTION



PRODUCT GUIDE

(800) 323-0535

WWW.SAKAIAMERICA.COM

TABLE OF CONTENTS

VIDEOS

4 GENERAL INFORMATION

6 TOOLS TO GET THE JOB DONE

8 SOIL COMPACTION BASICS

10 SV204 Series

12 SV414 Series

14 SV544 Series

16 ASPHALT COMPACTION BASICS

18 SW354 Series

20 TW354/504

21 SW504 Series

22 SW654 Series

23 SW774 Series

24 SW884 Series

25 SW994 Series

26 GW754

28 R2H-4

32 THE SAKAI STORY

100 YEAR CORPORATE VIDEO



Sakai Heavy Industries, Ltd. celebrated its 100th anniversary in May, 2018. We promise you to continue our sincere effort to build trustworthy products as always.

ND OSCILLATION VIDEO



In this video, we demonstrate the difference between oscillation and normal vertical vibration. Sakai's ND Series are capable of switching between the two compaction technologies on the fly, in both drums.

SV544 WALKAROUND VIDEO



We show the features and benefits of our flagship soil roller.

SW884/SW994 WALKAROUND VIDEO



We show the features and benefits of our flagship asphalt roller.

SW774 WALKAROUND VIDEO



View the features and benefits of our SW774 asphalt roller.

GENERAL INFORMATION

COMPACTION BASICS

Unlike static rollers that depend on the weight of the machine to generate the forces required to compact materials, Sakai vibratory and oscillating rollers introduce dynamic forces that helps to generate a high compaction effect with far less effort and cost.

These dynamic forces are created by rotating one, or several off-balanced weights connected to shafts within a steel compacting drum. During vibration the rotation of one shaft with weight delivers a centrifugal force that is sufficient to lift and drop the heavy steel drum as it moves through its cycle. The height at which the drum lifts is referred to as amplitude. During oscillation the rotation of more than one shaft with weight creates the back and forth smearing effect as it moves through its cycle. Each cycle repeats itself as the machine moves across and compacts the material depth and surface.

Vibratory dynamic forces typically increase the compacting force up to six times the actual static weight of the drum assembly. Like shaking up a box of corn flakes, this vibration rapidly moves the material particles, reduces the air voids between them and increases the material contact points. Vibratory and oscillating rollers help to rearrange the material particles at the same time for a denser fit.

It is imperative that machine speed, frequency and amplitude variations controlled by machine settings correlate to proper impacts per foot for consistency and mat smoothness. For more detailed information, contact your Sakai representative today or visit www.sakaiamerica.com

GENERAL INFORMATION



OUR DEDICATION TO SAFETY

Sakai understands that the integrity of the jobsite is dependent on the safety of the work zone. As such, we take safety of our machines to heart. All of our ride-on rollers come equipped with a safety brake pedal. An equipment operator's natural reaction to immediate danger is to hit the brakes, typically by using a brake pedal. This foot pedal is unique to Sakai and adds an element of safety to all of our products. In addition to our safety brake pedal, all Sakai ride-on rollers in the United States and Canada come equipped with Roll-Over-Protection-Systems, or ROPS, as well as seat belts. These features are only the beginning of our dedication to safety.

COMMON FEATURES

- Sakai's unique shock isolation system lasts a lifetime and provides greater operator comfort and reduced fatigue
- Thick, heavy-duty hardened steel frames are common to all Sakai heavy equipment
- Hydrostatic, SAHR brake systems
- Counter-rotating eccentric shafts eliminate "skipping" of the roller down the mat
- Winterization is a breeze with Sakai's unique system
- Cross-mounted drive and vibration motors on all asphalt machines – for even weight distribution
- Quarter-turn brass spray nozzles – All high-quality here, no cheap plastic spray nozzles which clog and break easily

EXACTCOMPACT

Maximize your production while meeting density and smoothness targets. EXACTCOMPACT automatically calculates roller speed based on the desired impacts per foot, no matter what frequency or amplitude. No more guess work or tinkering with forward/ neutral/reverse (FNR) lever every time the roller changes direction. The convenient AutoSpeed feature on the SW884/SW994 allows the operator to lock in the desired impacts per foot and works like cruise control to maintain the same speed in forward and reverse. Need to go faster? Simply disengage AutoSpeed and speed up, but beware of reduced smoothness and density!



INTELLIGENT COMPACTION

Intelligent Compaction involves the use of an accelerometer to measure changes in the amplitude wave of a vibratory roller or compactor. The rate of change in the amplitude wave measures the stiffness of the material being compacted. This stiffness value, when compared with the location of the drum(s) as measured using high-precision positioning systems, creates a map of your jobsite identifying potential “soft” or weak spots in the compacted material. Knowing these soft spots allows for spot-checking of the material to ensure uniform compaction, thereby verifying the integrity of the compaction process.

Through the location mapping process, Intelligent Compaction is also presenting a full map of your roller passes over the entire area being compacted. This allows verification that (a) your operators are performing in the most efficient roller patterns possible; (b) you are achieving uniform compaction through pass-count measurement and coverage; (c) of the minimum pass-count needed for achieving target quality assurance measurements.

A temperature sensor can also be added to map the temperature of the asphalt mat during the compaction process, ensuring that your operators are able to keep pace with the paver and stay off the mat outside the tender zone temperature range.



Sakai has partnered with the industry's leading manufacturers of intelligent compaction systems to ensure the best fitment and performance possible.

SOIL COMPACTION BASICS

Soil compaction drums are available in two basic types – smooth and padfoot. Smooth drums are generally the choice for compaction of rock, gravel, sand, and semi-cohesive soils.

Cohesive silts and clays typically need far more force to knead and compact. Sakai padfoot drums effectively penetrate these difficult materials, increasing the compaction forces per square inch, enabling density to be achieved quickly.

Most areas of the world offer a variety of soil types. For contractors working in these zones, Sakai offers the combi drum (TF & DF models) – a combination of a padfoot drum and a smooth drum using a bolt-on shell for use in either cohesive or non-cohesive soils.

Sakai also offers an optional strike-off blade (TB models) available with most soil models. The blade provides a level surface to prevent the drum from bridging over high spots and not compacting the underlying soil and it can be used for light duty backfilling. A Sakai representative will be happy to assist you on selecting the right drum configuration for your needs.



PADFOOT (T)



SMOOTH (D)



COMBO (TF)



COMBO (DF)

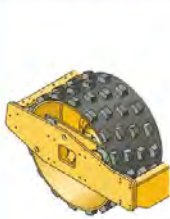
SOIL COMPACTION BASICS

ECO-MODE

With Sakai's new ECO-MODE, you can be sure your operations are running efficiently. By reducing fuel consumption while maintaining full hydraulic performance, you can save up to 20% in fuel costs.



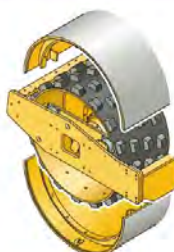
Drum Variations in addition to D type



T



DF



TF

SV204 SERIES



SV204D

APPLICATIONS:

- Low to Medium Production Soil Compaction Jobs
- Wide Variety of Soils
- Small to Medium Site Prep Jobs
- Confined Areas
- Large Trench Compaction
- Utility and Repair Work

	SV204D	SV204T
DRUM Type	Smooth	Padfoot
Size W/D	54"/39" (1,370/1,000mm)	54"/41" (1,370/1,050mm)
OPERATING Weight	10,220lbs (4,635kg)	10,440lbs (4,735kg)
Gradability	52%	49%
VIBRATION Frequency	1,800vpm (30Hz)	1,800vpm (30Hz)
Centrifugal Force	16,635lbs (74kN)	16,635lbs (74kN)
Nominal Amplitude	0.065" (1.65mm)	0.060" (1.52mm)
ENGINE Make & Model	Kubota V3307 T4 Final	Kubota V3307 T4 Final
Horsepower	73HP (54.6kW) @ 2,200rpm	73HP (54.6kW) @ 2,200rpm

SV204 SERIES



SV204TB

FEATURES & BENEFITS:

- High Centrifugal Force Outputs
- Durable Rubber Isolator System for vibratory drum
- Choice of Drum Configurations
- Traction Control
- Heavy-Duty Center Hitch Design
- ROPS and Seat Belts Standard
- Three Braking Choices
- Raised Exhaust for Trench Work
- Operator Station Access from Both Sides of Machine

	SV204TB	SV204TF
DRUM Type	Padfoot with Blade	Padfoot/ Smooth Shell
Size W/D	54"/41" (1,370/1,050mm)	54"/43" (1,370/1,090mm)
OPERATING Weight	11,100lbs (5,035kg)	11,980lbs (5,435kg)
Gradability	46%	41%
VIBRATION Frequency	1,800vpm (30Hz)	1,800vpm (30Hz)
Centrifugal Force	16,635lbs (74kN)	16,635lbs (74kN)
Nominal Amplitude	0.060" (1.52mm)	0.039" (1.00mm)
ENGINE Make & Model	Kubota V3307 T4 Final	Kubota V3307 T4 Final
Horsepower	73HP (54.6kW) @ 2,200rpm	73HP (54.6kW) @ 2,200rpm

SV414 SERIES



SV414D

APPLICATIONS:

- Medium Production Soil Compaction Jobs
- Wide Variety of Soils and Rockfill
- Roadway and Parking Lot Subbases
- Embankments
- Building Foundations
- Commercial and Industrial Tracts
- Road Widening
- Subgrade & Subbase

	SV414D	SV414T
DRUM Type	Smooth	Padfoot
Size W/D	67"/48" (1,700/1,220 mm)	67"/50" (1,700/1,270 mm)
OPERATING Weight	15,630 lbs (7,090 kg)	15,630 lbs (7,090 kg)
Gradability	63%	63%
VIBRATION Frequency	2,280/1800vpm (38/30Hz)	2,280/1800vpm (38/30Hz)
Centrifugal Force	20,905/26,525lbs (93/118kN)	20,905/26,525lbs (93/118kN)
Nominal Amplitude	0.030"/0.061" (0.75/1.55mm)	0.030"/0.061" (0.75/1.55mm)
ENGINE Make & Model	Cummins QSF2.8 T4 Final	Cummins QSF2.8 T4 Final
Horsepower	74 HP (55.0 kW) @2,400 rpm	74 HP (55.0 kW) @2,400 rpm

SV414 SERIES



SV414T

FEATURES & BENEFITS:

- Manual traction control system for climbing steep slopes in both forward and reverse
- Durable Rubber Isolator System for vibratory drum
- High Centrifugal Force Outputs
- Dual Amplitude – Dual Frequency
- Choice of Drum Configurations
- Drum and Axle Drives for Traction
- Heavy-Duty Center Hitch Design
- ROPS and Seat Belts Standard
- Optional X-Large, comfortable cab w/ plenty of extras

	SV414TF
DRUM Type	Padfoot/ Smooth Shell
Size W/D	67"/52" (1,700/1,320mm)
OPERATING Weight	18,340lbs (8,320kg)
Gradability	63%
VIBRATION Frequency	2,280/1800vpm (38/30Hz)
Centrifugal Force	20,905/26,525lbs (93/118kN)
Nominal Amplitude	0.020"/0.039" (0.50/1.00mm)
ENGINE Make & Model	Cummins QSF2.8 T4 Final
Horsepower	74 HP (55.0 kW) @2,400 rpm

SV544 SERIES

SV544 SERIES



SV544D



SV544TB

APPLICATIONS:

- Medium-to-High Compaction Soil Jobs
- Wide Variety of Soils and Rockfill
- Highway and Airport Subgrades and Subbases
- Embankments
- Dams and Reservoirs
- Large Commercial and Industrial Tracts

FEATURES & BENEFITS:

- New ECO mode – save up to 20% on fuel costs while maintaining compactive performance
- Manual traction control system for climbing steep slopes in both forward and reverse
- High Centrifugal Force Outputs
- Durable Rubber Isolator System for vibratory drum
- Dual Amplitude – Dual Frequency
- Heavy-Duty Center Hitch Design
- ROPS and Seat Belts Standard
- Three Braking Choices
- Optional X-Large, comfortable cab w/ plenty of extras



	SV544D	SV544T	SV544TB
DRUM			
Type	Smooth	Padfoot	Padfoot with Blade
Size W/D	84"/60" (2,130/1,530mm)	84"/63" (2,130/1,600mm)	84"/63" (2,130/1,600mm)
OPERATING			
Weight	24,250lbs (11,000kg)	25,090lbs (11,380kg)	26,765lbs (12,140kg)
Gradability	63%	63%	63%
VIBRATION			
Frequency	2,000/1730vpm (33.3/28.8Hz)	2,000/1730vpm (33.3/28.8Hz)	2,000/1730vpm (33.3/28.8Hz)
Centrifugal Force	32,820/57,325lbs (146/255kN)	32,820/57,325lbs (146/255kN)	32,820/57,325lbs (146/255kN)
Nominal Amplitude	0.033"/0.079" (0.85/2.01mm)	0.031"/0.074" (0.80/1.88mm)	0.031"/0.074" (0.80/1.88mm)
ENGINE			
Make & Model	Cummins QSF3.8 T4 Final	Cummins QSF3.8 T4 Final	Cummins QSF3.8 T4 Final
Horsepower	130HP (97.0kW) @ 2,200rpm	130HP (97.0kW) @ 2,200rpm	130HP (97.0kW) @ 2,200rpm

	SV544FB	SV544TF	SV544DF
DRUM			
Type	Padfoot/Smooth Shell with Blade	Padfoot/ Smooth Shell	Smooth/ Padfoot Shell
Size W/D	84"/65" (2,130/1,650mm)	84"/65" (2,130/1,650mm)	84"/67" (2,130/1,708mm)
OPERATING			
Weight	31,770lbs (14,410kg)	30,095lbs (13,650kg)	27,955lbs (12,680kg)
Gradability	63%	63%	63%
VIBRATION			
Frequency	2,000/1730vpm (33.3/28.8Hz)	2,000/1730vpm (33.3/28.8Hz)	2,000/1730vpm (33.3/28.8Hz)
Centrifugal Force	32,820/57,325lbs (146/255kN)	32,820/57,325lbs (146/255kN)	32,820/57,325lbs (146/255kN)
Nominal Amplitude	0.020"/0.048" (0.52/1.23mm)	0.020"/0.048" (0.52/1.23mm)	0.024"/0.057" (0.62/1.45mm)
ENGINE			
Make & Model	Cummins QSF3.8 T4 Final	Cummins QSF3.8 T4 Final	Cummins QSF3.8 T4 Final
Horsepower	130HP (97.0kW) @ 2,200rpm	130HP (97.0kW) @ 2,200rpm	130HP (97.0kW) @ 2,200rpm

AMPLITUDE/FREQUENCY MATTERS

Proper settings on the roller will vary from job to job, depending on many variables such as the mix design, binder, and the external environment – not to mention the lift thickness and speed of the paving train. When optimizing your productivity, rest assured that all of Sakai's instrumentation is only an arm's length away. All of our amplitude and frequency settings are located conveniently on the dash, and can be changed by flipping a switch on the fly.



VIBRATION VS. OSCILLATION

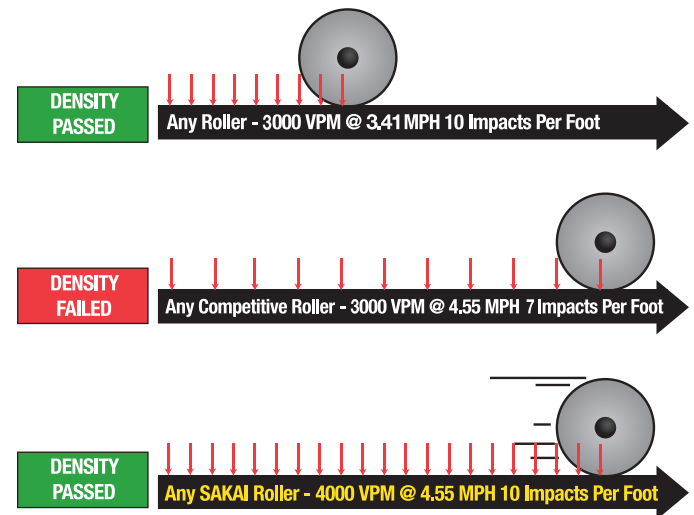
While vibration is still used on the overwhelming majority of compaction jobs to achieve density, we are seeing more and more jobs spec'ed as "no-vibe" – meaning that you cannot engage your vibration. By changing the direction of force from vertical to horizontal and hence "massaging" the asphalt into place, oscillation allows you meet "no-vibe" specs and still achieve density and smoothness. With Sakai's top-notch engineering team, we are able to offer the best oscillation system on the market, capable of switching from Double Drum oscillation to full vibration by flipping a switch at the operator's station. This allows you to move from the "no-vibe" section of your paving job back to the usual vibration-allowed sections with ease – no need to bring additional rollers!

SAKAI COMMON FEATURES

- Counter-Rotating Eccentrics for Directed Centrifugal Force
- Triple-Filtered Spray Systems
- Corrosion-Free Poly Water Tanks
- Twist-Off Bronze Spray Nozzles (no plastic)
- Comfortable Seats with Great Visibility
- Clear View of Drum Edges
- Chamfered Drum Edges for better smoothness
- Cross-mounted vibration and drive motors balance the load at drum edge to minimize edge marks on the mat.
- Sakai's ND Series allows switching between oscillation and vibration in both drums
- Gear driven so there is no need to worry with belt drive system (ND Series)

IMPACT SPACING

Smoothness of the mat and consistent density require proper impact spacing. With Sakai's innovative tools to assist, you can ensure you are achieving your target impacts per foot all day everyday.



SW354 SERIES



SW354

APPLICATIONS:

- Small to Medium Size Commercial Paving Projects
- Municipal and County Road Maintenance
- Highway Shoulders and Widening Projects



SW354 SERIES



SW354W (wide drum)

FEATURES & BENEFITS

- 4000 VPM – 10 IPF @ 4.55 MPH
- Counter-Rotating Eccentrics
- All Vibration Controls at Panel
- Machined Drums w/ Chamfered Edges
- Excellent Drum Edge Visibility
- Heavy-Duty Center Hitch Design
- Independent Drum Vibration
- Durable Rubber Isolator System for vibratory drums
- Dual Drum Hydrostatic Drive
- Excellent Curb Clearances
- Triple-Filtered Spray System
- ROPS and Seat Belts Standard
- Comfortable Bench Seat

		SW354	SW354W(wide drum)
DRUM	Size W/D	47"/27" (1,200/675mm)	51"/27" (1,300/675mm)
OPERATING	Weight	6,525lbs (2,960kg)	6,745lbs (3,060kg)
VIBRATION	Frequency	4,000vpm (66.7Hz)	4,000vpm (66.7Hz)
	Centrifugal Force	6,520lbs (29.0kN)	6,520lbs (29.0kN)
	Nominal Amplitude	0.012" (0.31mm)	0.011" (0.29mm)
ENGINE	Make & Model	Kubota D1703 T4 Final	Kubota D1703 T4 Final
	Horsepower	24HP (18.2kW) @ 2,200rpm	24HP (18.2kW) @ 2,200rpm



TW354

FEATURES & BENEFITS:

- Combination of Front Vibrating Drum and Rear Pneumatic Tires
- Pneumatic Tires Provide Kneading Effect for Smooth Surface Finish
- Machined Drums w/ Chamfered Edges
- Excellent Drum Edge-to-Edge Visibility
- Durable Rubber Isolator System for vibratory drums
- Triple-Filtered Spray System
- ROPS and Seat Belts Standard
- Comfortable Bench Seat
- Separate Release Agent Tank



		TW354	TW504
DRUM	Size W/D	47"/27" (1,200/675mm)	51"/31" (1,300/800mm)
	Weight	5,865lbs (2,660kg)	7,740lbs (3,510kg)
VIBRATION	Frequency	3,120vpm (52.0Hz)	3,100vpm (52.0Hz)
	Centrifugal Force	4,630lbs (20.6kN)	5,955/7,710lbs (26.5/34.3kN)
	Nominal Amplitude	0.014" (0.36mm)	0.012"/0.016" (0.30/0.40mm)
ENGINE	Make & Model	Kubota D1703 T4 Final	Kubota D1703 T4 Final
	Horsepower	24HP (18.2kW) @ 2,200rpm	24HP (18.2kW) @ 2,200rpm



SW504W (wide drum)

FEATURES & BENEFITS:

- 3,300 VPM
- Counter-rotating eccentric weights
- All vibration controls at instrument panel
- Chamfered drum edges
- Excellent drum edge visibility
- Heavy duty center hitch design
- Durable Rubber Isolator System for vibratory drums
- Independent drum vibration
- Great side and curb clearance
- Triple-filtered spray system
- Dual drum hydrostatic drive
- ROPS and seat belt standard
- Front and rear lights
- Braking lights
- Turn signals
- Mirrors



		SW504	SW504W(wide drum)
DRUM	Size W/D	51"/31" (1,300/800mm)	54"/31" (1,380/800mm)
	Weight	8,955lbs (4,060kg)	9,260lbs (4,200kg)
VIBRATION	Frequency	3,300vpm (55Hz)	3,300vpm (55Hz)
	Centrifugal Force	5,955/7,710lbs (26.5/34.3kN)	5,955/7,710lbs (26.5/34.3kN)
	Nominal Amplitude	0.011"/0.014" (0.27/0.35mm)	0.010"/0.013" (0.26/0.34mm)
ENGINE	Make & Model	Kubota D1803 T4 Final	Kubota D1803 T4 Final
	Horsepower	43 HP (32.3 kW) @2,400 rpm	43 HP (32.3 kW) @2,400 rpm

SW654 SERIES



SW654/SW654ND

APPLICATIONS:

- Small to large tonnage jobs
- Road shoulders and ramps
- Road widening
- Parking lots and driveways
- Municipal and county roads
- State highways
- The SW654ND and SW774ND double drum Oscillation & vibration system.

Oscillation works:

- Thin lifts
- Bridge decks
- Along old building foundations
- Compaction with utilities underneath
- Along buildings with sensitive equipment: airport terminals, hospitals, etc.
- Specification jobs required



SW774 SERIES



SW774/SW774ND

FEATURES & BENEFITS:

- 4000 VPM – 10 IPF @ 4.55 MPH (SW654, SW774)
- Counter-Rotating Eccentrics
- All Vibration Controls at Panel
- Machined Drums w/ Chamfered Edges
- Independent Drum Vibration
- Heavy-Duty Center Hitch Design
- Durable Rubber Isolator System for vibratory drums
- 180° Seat Rotation
- Multi-Filtered Spray System
- ROPS and Seat Belts Standard
- Water Spray Systems with back-up



	SW654	SW654ND
DRUM Size W/D	58"/42" (1,480/1,070mm)	58"/42" (1,480/1,070mm)
OPERATING Weight	15,585lbs (7,070kg)	16,250lbs (7,370kg)
VIBRATION Frequency	3,000/4,000vpm (50/66.7Hz)	Vibe: 2,940vpm (49Hz) Osc : 2,940vpm (49Hz)
Centrifugal Force	13,940/15,510lbs (62/69kN)	Vibe: 15,285lbs (68kN) Osc : 27,875lbs (124kN)
Nominal Amplitude	0.011"/0.021" (0.27/0.53mm)	Vibe: 0.020" (0.52mm) OSC : 0.030" (0.75mm)
ENGINE Make & Model	Kubota V3307 T4 Final	Kubota V3307 T4 Final
Horsepower	73HP (54.6kW) @ 2,200rpm	73HP (54.6kW) @ 2,200rpm

	SW774	SW774ND
DRUM Size W/D	66"/49" (1,680/1,250mm)	66"/49" (1,680/1,250mm)
OPERATING Weight	22,090lbs (10,020kg)	23,270lbs (10,555kg)
VIBRATION Frequency	2,500-4,000vpm (41.7-66.7Hz)	Vibe: 3,000vpm (50Hz) Osc: 3,000vpm (50Hz)
Centrifugal Force	9,665-23,155lbs (43-103kN)	Vibe: 25,180lbs (112kN) Osc: 30,800lbs (137kN)
Nominal Amplitude	0.012"/0.020" (0.30/0.50mm)	Vibe: 0.020" (0.50mm) Osc: 0.024" (0.61mm)
ENGINE Make & Model	Kubota V3800 T4 Final	Kubota V3800 T4 Final
Horsepower	110HP (81.8kW) @ 2,400rpm	110HP (81.8kW) @ 2,400rpm

SW884 SERIES



SW884/SW884ND

FEATURES & BENEFITS:

- 4000 VPM – 10 IPF @ 4.55 MPH (SW884,SW994)
- Several amplitude and frequency settings/combinations per drum at operator's station
- Counter-rotating eccentric weights
- All vibration controls at instrument panel
- Chamfered drum edges
- 180° seat rotation
- Heavy duty hitch design
- Durable Rubber Isolator System for vibratory drums
- Independent drum vibration
- Great side and curb clearance
- Triple-filtered spray system
- Dual drum hydrostatic drive



SW994 SERIES



SW994/SW994ND

FEATURES & BENEFITS:

- Auto Speed
- EXACTCOMPACT meter at dash
- ROPS and seatbelt
- Dual water spray systems for each drum
- Optional CAB with A/C



APPLICATIONS:

- Medium to large tonnage jobs
- Airport jobs
- State highways
- Municipal & county roads
- Large commercial jobs
- Road shoulders and ramps
- Road widening

	SW884	SW884ND
DRUM Size W/D	79"/55" (2,000/1,400mm)	79"/54" (2,000/1,370mm)
OPERATING Weight	28,415lbs (12,890kg)	29,165 lbs (13,230 kg)
VIBRATION Frequency	2,500 - 4,000vpm (41.7 - 66.7Hz)	Vibe: 3,000 vpm (50 Hz) Osc: 2,800 vpm (46.7 Hz)
Centrifugal Force	14,160-39,790lbs (63-177kN)	Vibe: 35,585 lbs (158kN) Osc: 38,600 lbs (172kN)
Nominal Amplitude	0.013"/0.025" (0.33/0.64mm)	Vibe: 0.022" (0.55mm) Osc: 0.024" (0.60mm)
ENGINE Make & Model	Cummins QSF 3.8 T4 Final	Cummins QSF 3.8 T4 Final
Horsepower	130 HP (97.0kW) @2,200 rpm	130 HP (97.0kW) @2,200 rpm

	SW994	SW994ND
DRUM Size W/D	84"/55" (2,130/1,400mm)	84"/54" (2,130/1,370mm)
OPERATING Weight	29,255lbs (13,270kg)	29,960 lbs (13,590 kg)
VIBRATION Frequency	2,500 - 4,000vpm (41.7 - 66.7Hz)	Vibe: 3,000 vpm (50 Hz) Osc: 2,800 vpm (46.7 Hz)
Centrifugal Force	15,285 - 41,590lbs (68 - 185kN)	Vibe: 35,585 lbs (158kN) Osc: 38,600 lbs (172kN)
Nominal Amplitude	0.013"/0.026" (0.34/0.65mm)	Vibe: 0.021" (0.54mm) Osc: 0.022" (0.56mm)
ENGINE Make & Model	Cummins QSF 3.8 T4 Final	Cummins QSF 3.8 T4 Final
Horsepower	130 HP (97.0kW) @2,200rpm	130 HP (97.0kW) @2,200rpm



GW754

APPLICATIONS:

- Medium to large tonnage jobs
- Airport jobs
- State highways
- Municipal roads
- Large commercial jobs
- Road shoulders and ramps



GW754

APPLICATIONS:

- Road widening
- Base material
- SMA
- Cold-in place recycle
- Roller compacted concrete
- Thick lifts
- Longitudinal joints



FEATURES & BENEFITS:

- Vibrating pneumatic tire roller
- Several amplitude and frequency settings/ combinations per axle at operator's station
- Excellent tire edge visibility
- Great side and curb clearance
- Durable Rubber Isolator System for vibratory tires
- Separate release agent tank
- ROPS and seatbelt
- Front and rear lights
- 180° seat rotation

GW754	
COMPACTION WIDTH	77" (1,950mm)
OPERATING Weight	19,510 lbs (8,850 kg)
VIBRATION Frequency	2,400 vpm (40 Hz)
Centrifugal Force	1,350 - 13,040 lbs (6 - 58 kN)
Nominal Amplitude	0.004" - 0.029" (0.1 - 0.74 mm)
ENGINE Make & Model	Kubota V3800 T4 Final
Horsepower	110 HP (81.8 kW) @ 2,400 rpm

R2H-4



R2H-4

APPLICATIONS:

- Small to large tonnage jobs where no vibratory compaction is allowed
- Thin lifts
- Bridge decks
- State highways
- Municipal & county roads
- Large commercial jobs
- Road shoulders and ramps
- Road widening
- Finish rolling
- Longitudinal joints



R2H-4	
COMPACTION WIDTH	83" (2,100mm)
OPERATING Weight	30,955lbs (14,040kg)
Weight on front axle	15,455lbs (7,010kg)
Weight on rear axle	15,500lbs (7,030kg)
Static Linear Pressure	Front: 355lbs/in (625N/cm) Rear: 355lbs/in (625N/cm)
ENGINE Make & Model	Kubota V3307 T4 Final
Horsepower	73HP (54.6kW) @ 2,200rpm

R2H-4



R2H-4

FEATURES & BENEFITS:

- High 355 pli static roller
- Chamfered drum edges
- Heavy duty center hitch design
- Great side and curb clearance
- Triple-filtered spray system
- ROPS and seatbelts
- Front and rear lights
- Braking lights
- Mirrors
- Two operator seats



NOTES

[illegible]

NOTES

[illegible]

ABOUT US



SAKAI was founded in Japan in May 1918 for the manufacture and repair of diesel locomotives. Over time, those product lines evolved into what now is the premier manufacturer of self-propelled vibratory rollers in the world, shipping more machines than any other manufacturer. Sakai products are now used successfully in over 110 countries around the globe. Products for the North American market are now made in America and shipped from the Sakai manufacturing plant in Adairsville, Georgia. This strong commitment to the American market is supported by the rapid dispatch of parts and service from this new facility in suburban Atlanta.

For more information or a money making demonstration, please test drive one at your local dealer today.



K673D1LJ

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SAKAI

MASTERS OF COMPACTION



LIGHT EQUIPMENT PRODUCT GUIDE

(800) 323-0535

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LIGHT COMPACTION

OVERVIEW

While Sakai has been involved in the manufacture and sale of heavy equipment since the 1930's, Sakai also offers an extensive array of light equipment in our product offering. From rammers/tamps and plate compactors to walk-behind rollers and trench rollers, our light equipment offering is the best in the industry.

EASY MAINTENANCE

Sakai engineering is highly-focused on the ease of use and functionality of our equipment. As such, we have easily-serviced engines on our complete line-up and common parts that you are more likely to be able to find at a local parts store. Less downtime for maintenance means higher productivity and greater utilization.

LIGHT COMPACTION

WARRANTY

Sakai offers a full warranty on all the equipment we manufacture. Rest assured that if you buy Sakai, you'll be well taken care of.



CR271



CR271

APPLICATION:

- Small to medium asphalt & soil compaction jobs
- Road maintenance
- Road widening
- County roads
- Driveways
- Landscaping
- Parking lots
- Bike trails and golf courses
- Utility installation

FEATURES & BENEFITS:

- High curb clearance
- Chamfered drum edges
- Excellent visibility
- Easy maintenance
- Steel hood and decking
- Extra large water tank capacity
- Heavy duty center joint
- Dual drum drive

CR271	
DRUM	Size W/D
35.5"/22.0" (900/560mm)	
OPERATING	Weight
3,265lbs (1,480kg)	
VIBRATION	Frequency
4,000vpm (66.7 Hz)	
Centrifugal Force	
2,975lbs (13.2kN)	
Nominal Amplitude	
0.014" (0.35mm)	
ENGINE	Make & Model
Honda GX630R	
Horsepower	
20.8HP (15.5kW)	
Fuel/Sprinkler	
7.9gal (30.0L) 40.0gal (150.0L)	

HS67ST



HS67ST

APPLICATION:

- Small to medium asphalt & soil compaction jobs
- Patching
- Landscaping
- Parking lots
- Bike trails and golf courses
- Narrow utility installation

FEATURES & BENEFITS:

- Steerable front drum (no scuffing of asphalt, easy on operator compared to fixed frame units)
- Large water tank
- Heavy duty hardened steel frame
- Safety cut off bumper pad
- External Vibratory Mechanism (not inside drums) for easy maintenance
- Control handle lifts into locking position for easy transportation

HS67ST	
DRUM Size W/D	25.0"/14.0" (635/355mm)
OPERATING Weight	1,545lbs (700kg)
VIBRATION Frequency	3,300vpm (55.0 Hz)
Centrifugal Force	2,650lbs (11.8kN)
Nominal Amplitude	0.009" (0.24mm)
ENGINE Make & Model	Honda GX390
Horsepower	9.4HP (7.0kW)
Fuel/Sprinkler	1.6gal (6.1L) 7.9gal (30.0L)

PLATE COMPACTORS



PLATE	13.8" X 20.5" (350X520mm)
OPERATING WEIGHT	159lbs (72kg)
CENTRIFUGAL FORCE	2,650lbs (11.8kN)
FUEL CAPACITY	0.5gal(2.0L)
ENGINE	Honda GX120 3.5HP (2.8kW)
WATER TANK CAPACITY	2.6gal (10.0L)

PC600

FEATURES & BENEFITS:

- Removable water tank with heavy duty hose & foldable handle
- Superior shock absorbing isolators
- Heavy duty hardened steel plate
- Extremely light weight



PLATE	18.9" X 22.6" (480X575mm)
OPERATING WEIGHT	172lbs (78kg)
CENTRIFUGAL FORCE	2,650lbs (11.8kN)
FUEL CAPACITY	0.5gal(2.0L)
ENGINE	Honda GX120 3.5HP (2.8kW)
WATER TANK CAPACITY	2.6gal (10.0L)

PC600W

FEATURES & BENEFITS:

- Dual belt drive
- Removable water tank with heavy duty hose and valve
- Heavy duty hardened steel plate
- Superior shock absorbing isolators
- Rolled steel plate for added durability
- Lift handles for easier loading and unloading



PLATE	19.7" X 23.0" (500X585mm)
OPERATING WEIGHT	225lbs (102kg)
CENTRIFUGAL FORCE	3,640lbs (16.2kN)
FUEL CAPACITY	1.0gal (3.6L)
ENGINE	Honda GX160 5.4HP (4.0kW)
WATER TANK CAPACITY	2.6gal (10.0L)

PC800

FEATURES & BENEFITS:

- Dual belt drive
- Removable water tank with heavy duty hose and valve
- Heavy duty hardened steel plate
- Superior shock absorbing isolators

REVERSIBLE PLATES



PLATE 15.7" X 23.6" (400X600mm)
OPERATING WEIGHT 273lbs (124kg)
CENTRIFUGAL FORCE 5,845lbs (26.0kN)
FUEL CAPACITY 1.0gal (3.6L)
ENGINE Honda GX160 5.4HP (4.0kW)

PF120

FEATURES & BENEFITS:

- Control handle lifts into locking position for easy transportation
- Heavy duty hardened steel plate
- Superior shock absorbing isolators
- Easy maintenance



PLATE 19.7" X 27.6" (500X700mm)
OPERATING WEIGHT 304lbs (138kg)
CENTRIFUGAL FORCE 6,970lbs (31.0kN)
FUEL CAPACITY 1.0gal (3.6L)
ENGINE Honda GX200 6.4HP (4.8kW)

PF150

FEATURES & BENEFITS:

- Control handle lifts into locking position for easy transportation
- Heavy duty hardened steel plate
- Superior shock absorbing isolators
- Easy maintenance



PLATE 19.7" X 32.3" (500X820mm)
OPERATING WEIGHT 578lbs (262kg)
CENTRIFUGAL FORCE 8,545lbs (38.0kN)
FUEL CAPACITY 1.4gal (5.3L)
ENGINE Honda GX270 8.4HP (6.3kW)

PF281

FEATURES & BENEFITS:

- Reversible plates
- Control handle lifts into locking position for easy transportation
- Heavy duty hardened steel plate
- Superior shock absorbing isolators
- Easy maintenance

RAMMERS



RS65



RS75

		RS55	RS65
SHOE	Size	10.2"X13.4" (260X340mm)	11.0"X13.4" (280X340mm)
COMPACTION	Weight	132lbs (60kg)	152lbs (69kg)
	Width	10.2" (260mm)	11.0" (280mm)
VIBRATION	Frequency	648 - 690vpm (10.8 - 11.5Hz)	648 - 690vpm (10.8 - 11.5Hz)
	Impact Force	2,700lbs (12.0kN)	3,375lbs (15.0kN)
ENGINE	Make & Model	Honda GX100	Honda GX100
	Horsepower	2.8HP (2.1kW)	2.8HP (2.1kW)
RAMMING	Stroke	1.6" - 2.4" (40 - 60mm)	2.0" - 2.8" (50 - 70mm)

		RS75
SHOE	Size	11.0"X13.4" (280X340mm)
COMPACTION	Weight	165lbs (75kg)
	Width	11.0" (280mm)
VIBRATION	Frequency	648 - 690vpm (10.8 - 11.5Hz)
	Impact Force	4,050lbs (18.0kN)
ENGINE	Make & Model	Honda GXR120
	Horsepower	3.6HP (2.7kW)
RAMMING	Stroke	2.0" - 2.8" (50 - 70mm)

SW354 SERIES



SW354

APPLICATIONS:

- Small to Medium Size Commercial Paving Projects
- Municipal and County Road Maintenance
- Highway Shoulders and Widening Projects



		SW354	SW354 (wide drum)
DRUM	Size W/D	47" /27" (1,200/675mm)	51" /27" (1,300/675mm)
OPERATING	Weight	6,525lbs (2,960kg)	6,745lbs (3,060kg)
VIBRATION	Frequency	4,000vpm (66.7Hz)	4,000vpm (66.7Hz)
	Centrifugal Force	6,520lbs (29.0kN)	6,520lbs (29.0kN)
	Nominal Amplitude	0.012" (0.31mm)	0.011" (0.29mm)
ENGINE	Make & Model	Kubota D1703 T4 Final	Kubota D1703 T4 Final
	Horsepower	24HP (18.2kW) @ 2,200rpm	24HP (18.2kW) @ 2,200rpm

SV204 SERIES



SV204D

APPLICATIONS:

- Low to Medium Production Soil Compaction Jobs
- Wide Variety of Soils
- Small to Medium Site Prep Jobs
- Confined Areas
- Large Trench Compaction
- Utility and Repair Work

		SV204D	SV204T
DRUM	Type	Smooth	Padfoot
	Size W/D	54"/39"(1,370/1,000mm)	54"/41"(1,370/1,050mm)
OPERATING	Weight	10,220lbs (4,635kg)	10,440lbs (4,735kg)
	Gradability	52%	49%
VIBRATION	Frequency	1,800vpm (30Hz)	1,800vpm (30Hz)
	Centrifugal Force	16,635lbs (74kN)	16,635lbs (74kN)
	Nominal Amplitude	0.065" (1.65mm)	0.060" (1.52mm)
ENGINE	Make & Model	Kubota V3307 T4 Final	Kubota V3307 T4 Final
	Horsepower	73HP (54.6kW) @ 2,200rpm	73HP (54.6kW) @ 2,200rpm

SV204 SERIES



SV204TB

FEATURES & BENEFITS:

- High Centrifugal Force Outputs
- Choice of Drum Configurations
- Durable Rubber Isolator System for Vibratory Drum
- Traction Control
- Heavy-Duty Center Hitch Design
- ROPS and Seat Belts Standard
- Three Braking Choices
- Raised Exhaust for Trench Work
- Operator Station Access from Both Sides of Machine

		SV204TB	SV204TF
DRUM	Type	Padfoot with Blade	Padfoot/Smooth Shell
	Size W/D	54"/41"(1,370/1,050mm)	54"/43"(1,370/1,090mm)
OPERATING	Weight	11,100lbs (5,035kg)	11,980lbs (5,435kg)
	Gradability	46%	41%
VIBRATION	Frequency	1,800vpm (30Hz)	1,800vpm (30Hz)
	Centrifugal Force	16,635lbs (74kN)	16,635lbs (74kN)
	Nominal Amplitude	0.060" (1.52mm)	0.039" (1.00mm)
ENGINE	Make & Model	Kubota V3307 T4 Final	Kubota V3307 T4 Final
	Horsepower	73HP (54.6kW) @ 2,200rpm	73HP (54.6kW) @ 2,200rpm

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