

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.

Call your authorized dealer:

SAKAI

MASTERS OF COMPACTION

PRODUCT GUIDE



SAKAI
MASTERS OF COMPACTION

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Courtesy of Machine Market

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THE SAKAI STORY	REAR COVER

WELCOME TO SAKAI

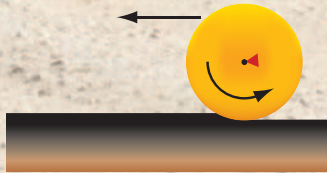
Sakai offers a wide range of high force vibratory soil compactors designed for rapid compaction of all types of soil, rockfill, recycled base materials and soil cement at the lowest possible cost. They also offer a full complement of high frequency vibratory asphalt rollers for meeting density and smoothness requirements on HMA.

GENERAL INFORMATION

HERE'S HOW THEY WORK:

Unlike static rollers that depend on the weight of the machine to generate the forces required to compress materials, Sakai vibratory rollers introduce dynamic forces that generate high compactive effort at less cost.

This dynamic force is developed by rotating an eccentric weight within a steel drum. This high frequency rotation develops centrifugal forces sufficient to lift and drop the heavy steel drum as it moves. This cycle repeats itself up to 4,020 times per minute as the machine moves across the material surface.

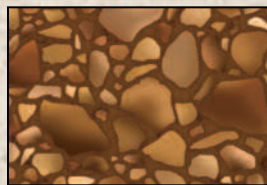


These dynamic forces increase the compactive effort up to six times that of the static weight of the drum alone rearranging the material particle orientation for a denser fit.

Like shaking up a box of corn flakes, this vibration rapidly moves the material particles, reduces the air voids between them, increases the stone-on-stone contact thus speeds compaction – in short, Sakai



BEFORE SAKAI



AFTER SAKAI

GENERAL INFORMATION

vibratory compactors increase density faster. Compaction is an extremely technical process. For more detailed information, ask for a free copy of Sakai's book entitled "Compaction Equipment – Theory and Practice."

COMMON STANDARD FEATURES:

Sakai's patented, custom-designed shock isolators reduce the transmission of vibration back to the operator and critical components.



Super heavy-duty articulation joint provides superior chassis stability, ground contact and operator control.

Sakai is the only roller manufacturer to offer three separate braking systems, including a foot pedal brake as a standard safety feature on all its machines.

ROPS and 3-inch seat belts are also included as standard equipment.

Winterization kit to prevent spray nozzles from freezing.

Diesel engines offered by Sakai provide optimum power with superb fuel economy.



Parts & Service is available through Sakai's local dealer network or via overnight shipment from our North American Headquarters in Adairsville, GA.

PRODUCTIVITY TOOLS

COMPACTION CONTROL SYSTEM

Sakai's Compaction Control System provides real time, three-dimensional digital monitoring of soil energy feedback.

A precision accelerometer measures drum rebound characteristics. These signals are then processed and presented in an easy-to-read visual format at the operator's station. This information will allow the operator to make adjustments to achieve the required density with the minimal number of passes.



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 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!

PRODUCTIVITY TOOLS

TEMPERATURE-ON-THE-RUN

Sakai's Temperature-on-the-Run System monitors actual mat temperature in real time right at the operator's station.

It's great for today's temperature sensitive asphalt mix designs.

No more manual guesswork. No more inaccurate and labor intensive guns. Temperature-on-the-Run is available for all Sakai asphalt rollers.

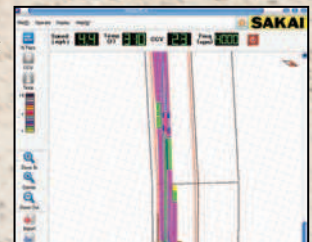


COMPACTION INFORMATION SYSTEM (CIS)

Sakai's new Compaction Information System is designed to improve compaction quality and consistency on soil, asphalt, roller compacted concrete, cold-in-place or any paving projects.

A touch screen on the control panel enables the operator to quickly estimate the level of compaction achieved in real time.

Special software enables the QC Manager to develop a plan for compaction, manage the compaction data and utilize this data to document results. GPS is required to provide location and mapping results.



SOIL COMPACTORS

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.

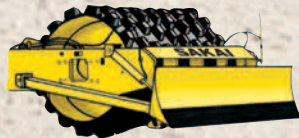


Cohesive silts and clays typically need far more force to knead and compact. Sakai padfoot drums effectively penetrate these difficult materials, increasing the compaction forces per square inch, enabling density to be achieved quickly.



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

SOIL COMPACTORS

NEW SOIL COMPACTOR WITH TRACTION CONTROL SYSTEM – SV410 SERIES

Sakai has designed the SV410 Series specifically for compacting embankments and trenches without the need for winching. The traction control



system allows for exceptional climbing ability in forward and reverse as well as preventing either the drum or tires from slipping, maintaining a grip at all times. Slick (smooth) tires are available for additional climbing ability and to minimize the potential for damaging landfill liners.



VIBRATORY PNEUMATIC ROLLER ON SOIL

In addition to the great results the Sakai GW750-2 is getting on Hot

Mix Asphalt, it does an excellent job compacting granular road base materials and exceeding the airport P-201 specifications. Two GW750's were successfully used in combination with two SW900's to exceed the P-201 compaction requirements at Edwards Air Force Base.

DRUM TYPES & WIDTH



54"

SV201D-1

SV201T-1

SV201TB-1

SV201TF-1

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

FEATURES & BENEFITS:

- High Centrifugal Force Outputs
- Superior Shock Isolation Systems
- Choice of Drum Configurations
- Drum and Axle Drives for Traction
- Heavy-Duty Center Hitch Design
- ROPS and Seat Belts Standard
- Three Braking Choices
- Raised Exhaust for Trench Work
- Traction Valve for Climbing
- Operator Station Access from Both Sides of Machine

SPECIFICATIONS:

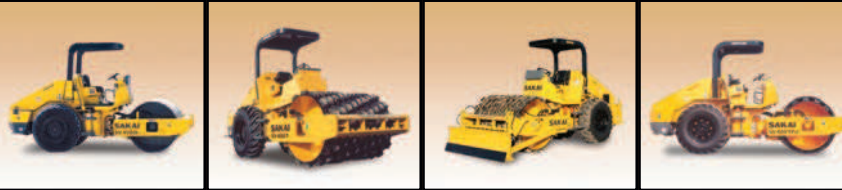
	SV201D-1	SV201T-1
DRUM	Type	Smooth
	Size WxD	54X40 ins 1370X1000 mm
OPERATING	Weight	9,590 lbs 4,350 kg
	Gradability	59%
VIBRATION	Frequency	1,800 vpm 30 Hz
	Centrifugal Force	16,100 lbs 72 kN
	Nominal Amplitude	.065 ins 1.65 mm
		.060 ins 1.52 mm
ENGINE	Make & Model	Kubota Tier 4i V3307 (Diesel)
	Horsepower	74 Hp @ 2200 rpm 55 kW @ 2200 min ⁻¹
BRAKING	Systems Hydrostatic Service Brake + SAHR + Combined Footbrake	

	SV201TB-1	SV201TF-1
DRUM	Type	Padfoot/Blade
	Size WxD	54X41 ins 1370X1050 mm
OPERATING	Weight	10,470 lbs 4,750 kg
	Gradability	50%
VIBRATION	Frequency	1,800 vpm 30 Hz
	Centrifugal Force	16,100 lbs 72 kN
	Nominal Amplitude	.060 ins 1.52 mm
		.039 ins 1.65 mm
ENGINE	Make & Model	Kubota Tier 4i V3307 (Diesel)
	Horsepower	74 Hp @ 2200 rpm 55 kW @ 2200 min ⁻¹
BRAKING	Systems Hydrostatic Service Brake + SAHR + Combined Footbrake	

FOR MORE INFORMATION, PLEASE SEE DRUM

CONFIGURATION EXPLANATION ON PAGE 6.

DRUM TYPES & WIDTH



67"

SV400D-2

SV400T-2

SV400TB-2

SV400TF-2

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

FEATURES & BENEFITS:

- High Centrifugal Force Outputs
- Superior Shock Isolation Systems
- Dual Amplitude – Dual Frequency
- Choice of Drum Configurations
- Drum and Axle Drives for Traction
- Heavy-Duty Center Hitch Design
- ROPS and Seat Belts Standard
- Three Braking Choices
- Operator Station Access from Both Sides of Machine

SPECIFICATIONS:

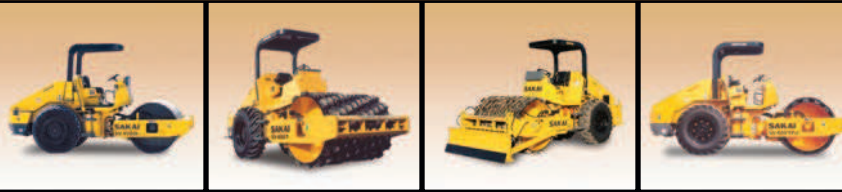
	SV400D-2	SV400T-2
DRUM		
Type	Smooth	Padfoot
Size WxD	67X51 ins 1700X1300 mm	67X53 ins 1700X1350 mm
OPERATING		
Weight	16,380 lbs 7,430 kg	16,865 lbs 7,650 kg
Gradability	62%	62%
VIBRATION		
Frequency	2,300 vpm/1,800 vpm 38 Hz/30 Hz	2,300 vpm/1,800 vpm 38 Hz/30 Hz
Centrifugal Forces	20,940 lbs/26,460 lbs 93 kN/118 kN	23,150 lbs/28,660 lbs 103 kN/127 kN
Nominal Amplitude	0.03 ins/.06 ins 0.7 mm/1.4 mm	0.03 ins/.06 ins 0.7 mm/1.4 mm
ENGINE		
Make & Model	Deutz (Tier 3) TCD2011L04W	Deutz (Tier 3) TCD2011L04W
Horsepower	100 Hp @ 2300 rpm 75kW @ 2300 min ⁻¹	100 Hp @ 2300 rpm 75kW @ 2300 min ⁻¹
BRAKING	Hydrostatic Service Brake + SAHR + Combined Footbrake	
Systems		

SV400TB-2	SV400TF-2
Padfoot/Blade	Combi
67X53 ins 1700X1350 mm	67X55 ins 1700X1400 mm
17,530 lbs 7,950 kg	19,620 lbs 8,900 kg
58%	50%
2,300 vpm/1,800 vpm 38 Hz/30 Hz	2,300 vpm/1,800 vpm 38 Hz/30 Hz
23,150 lbs/28,660 lbs 103 kN/127 kN	23,150 lbs/28,660 lbs 103 kN/127 kN
0.03 ins/.06 ins 0.7 mm/1.4 mm	0.02 ins/.04 ins 0.5 mm/.9 mm
Deutz (Tier 3) TCD2011L04W	Deutz (Tier 3) TCD2011L04W
100 Hp @ 2300 rpm 75kW @ 2300 min ⁻¹	100 Hp @ 2300 rpm 75kW @ 2300 min ⁻¹
Hydrostatic Service Brake + SAHR + Combined Footbrake	

FOR MORE INFORMATION, PLEASE SEE DRUM

CONFIGURATION EXPLANATION ON PAGE 6.

DRUM TYPES & WIDTH



67"

SV410D-2

SV410T-2

SV410TB-2

SV410TF-2

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

FEATURES & BENEFITS:

- **New Traction Control System**
- High Centrifugal Force Outputs
- Superior Shock Isolation Systems
- Dual Amplitude – Dual Frequency
- Choice of Drum Configurations
- Drum and Axle Drives for Traction
- Heavy-Duty Center Hitch Design
- ROPS and Seat Belts Standard
- Three Braking Choices
- Operator Station Access from Both Sides of Machine

SPECIFICATIONS:

	SV410D-2	SV410T-2
DRUM	Type	Smooth
	Size WxD	67X51 ins 1700X1300 mm
OPERATING	Weight	16,380 lbs 7,430 kg
	Gradability	62%
VIBRATION	Frequency	2,300 vpm/1,800 vpm 38 Hz/30 Hz
	Centrifugal Forces	20,940 lbs/26,460 lbs 93 kN/118 kN
	Nominal Amplitude	0.03 ins/.06 ins 0.7 mm/1.4 mm
ENGINE	Make & Model	Deutz (Tier 3) TCD2011L04W
	Horsepower	100 Hp @ 2300 rpm 75kW @ 2300 min ⁻¹
BRAKING	Systems Hydrostatic Service Brake + SAHR + Combined Footbrake	

	SV410TB-2	SV410TF-2
DRUM	Type	Padfoot/Blade
	Size WxD	67X53 ins 1700X1350 mm
OPERATING	Weight	17,530 lbs 7,950 kg
	Gradability	62%
VIBRATION	Frequency	2,300 vpm/1,800 vpm 38 Hz/30 Hz
	Centrifugal Forces	23,150 lbs/28,660 lbs 103 kN/127 kN
	Nominal Amplitude	0.03 ins/.06 ins 0.7 mm/1.4 mm
ENGINE	Make & Model	Deutz (Tier 3) TCD2011L04W
	Horsepower	100 Hp @ 2300 rpm 75kW @ 2300 min ⁻¹
BRAKING	Systems Hydrostatic Service Brake + SAHR + Combined Footbrake	

FOR MORE INFORMATION, PLEASE SEE DRUM

CONFIGURATION EXPLANATION ON PAGE 6.

DRUM TYPES & WIDTH



84"

SV505D-1

SV505T-1

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:

- High Centrifugal Force Outputs
- Superior Shock Isolation Systems
- Dual Amplitude – Dual Frequency
- Choice of Drum Configurations
- Drum and Axle Drives for Traction
- Heavy-Duty Center Hitch Design
- ROPS and Seat Belts Standard
- Three Braking Choices
- Economical to Own and Operate

SPECIFICATIONS:

	SV505D-1	SV505T-1	
DRUM	Type	Smooth	Padfoot
	Size WxD	84X60 ins 2130X1530 mm	84X63 ins 2130X1600 mm
OPERATING	Weight	23,525 lbs 10,670 kg	24,320 lbs 11,030 kg
	Gradability	62%	62%
VIBRATION	Frequency	2,200 vpm/1,650 vpm 37 Hz/28 Hz	2,200 vpm/1,650 vpm 37 Hz/28 Hz
	Centrifugal Forces	38,580 lbs/50,710 lbs 172 kN/226 kN	41,890 lbs/55,120 lbs 186 kN/245 kN
	Nominal Amplitude	.04 ins/.08 ins 0.93 mm/2.0 mm	.04 ins/.08 ins 0.93 mm/2.0 mm
ENGINE	Make & Model	Cummins (Tier 3) QSB4.5	Cummins (Tier 3) QSB4.5
	Horsepower	130 Hp @ 2300 rpm 97 kW @ 2300 min ⁻¹	130 Hp @ 2300 rpm 97 kW @ 2300 min ⁻¹
	BRAKING	Systems Hydrostatic Service Brake + SAHR + Combined Footbrake	



FOR MORE INFORMATION, PLEASE SEE DRUM CONFIGURATION EXPLANATION ON PAGE 6.

DRUM TYPES & WIDTH



84"

SV510D-III

SV510T-III

SV510TB-III

SV510TF-III

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 Automatic Traction Control System
- High Centrifugal Force Outputs
- Superior Shock Isolation Systems
- Dual Amplitude – Dual Frequency
- Choice of Drum Configurations
- Heavy-Duty Center Hitch Design
- ROPS and Seat Belts Standard
- Three Braking Choices
- Operator Station Access from Both Sides of Machine

SPECIFICATIONS:

	SV510D-III	SV510T-III
DRUM	Type	Smooth
	Size WxD	84x60 ins 2130x1530 mm
OPERATING	Weight	23,525 lbs 10,670 kg
	Gradability	62%
VIBRATION	Frequency	2,200 vpm/1,650 vpm 37 Hz/28 Hz
	Centrifugal Forces	38,580 lbs/50,710 lbs 172 kN/226 kN
	Nominal Amplitude	.04 ins/0.09 ins 0.93 mm/2.19 mm
	Make & Model	Cummins (Tier 3) QSB4.5
Horsepower	148 Hp @ 2300 rpm 110 kW @ 2300 min ⁻¹	
BRAKING	Systems	Hydrostatic Service Brake + SAHR Parking Brake + Combined Footbrake

	SV510TB-III	SV510TF-III
DRUM	Type	Padfoot/Blade
	Size WxD	84x63 ins 2130x1600 mm
OPERATING	Weight	25,375 lbs 11,510 kg
	Gradability	62%
VIBRATION	Frequency	2,200 vpm/1,650 vpm 37 Hz/28 Hz
	Centrifugal Forces	41,890 lbs/55,120 lbs 186 kN/245 kN
	Nominal Amplitude	.04 ins/0.09 ins 0.93 mm/2.2 mm
	Make & Model	Cummins (Tier 3) QSB4.5
Horsepower	148 Hp @ 2300 rpm 110 kW @ 2300 min ⁻¹	
BRAKING	Systems	Hydrostatic Service Brake + SAHR Parking Brake + Combined Footbrake

FOR MORE INFORMATION, PLEASE SEE DRUM

CONFIGURATION EXPLANATION ON PAGE 6.

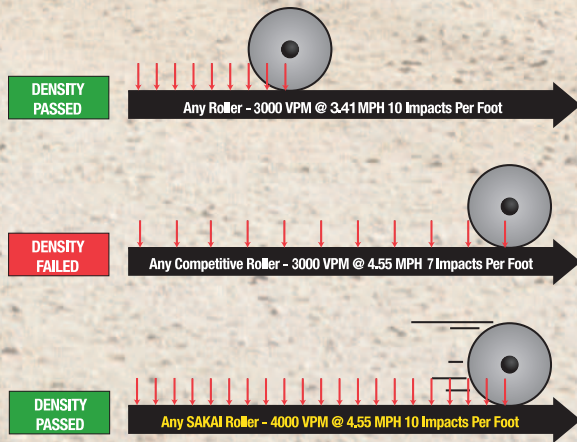
ASPHALT ROLLERS

ASPHALT ROLLERS

WHY SUPER HIGH FREQUENCY MAKES A DIFFERENCE – AND OTHER IMPORTANT ASPHALT ROLLER INFO.

Sakai offers more 4000 vpm – or vibrations per minute – rollers than any other manufacturer in the business.

Why is 4000 vpm important? Because the higher the frequency, the faster the permissible ground speed or the closer the impacts. This means you can reach density faster and gain bonuses rather than penalties.

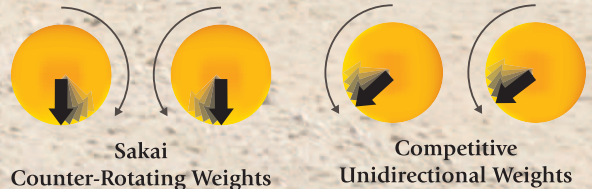


By rotating its weights faster, Sakai generates more impacts per foot. With this added feature, Sakai can attain the rule-of-thumb ten impacts per foot necessary to reach density at a ground speed of 4.55 mph. This translates directly into higher productivity and more tons per hour.

4000 vpm is standard on 7 different Sakai models from 39" through 84" drum widths.

MORE GREAT FEATURES:

- Counter-Rotating Weights for Directed Centrifugal Force
- Triple-Filtered Spray Systems
- Dual Spray Bars and Pumps on Each Drum
- Corrosion-Free Poly Water Tanks
- Twist-Off Bronze Spray Nozzles
- Comfortable Seats with Great Visibility
- Clear View of Drum Edges
- Chamfered Drum Edges Don't Cut Into The Mat.



WORLD'S FIRST VIBRATORY PNEUMATIC TIRE ROLLER



GW750-2

Pages 34-35



Drum Sizes

35.4"



CR271

APPLICATIONS:

- Utility Trench Repair
- Driveways
- Bicycle Paths
- Sports Courts
- Parking Areas
- Road Maintenance
- Road Widening
- Rental House Fleets

FEATURES & BENEFITS:

- 4000 vpm - 10 IPF@4.55 mph
- Machined Drums w/ Chamfered Edges
- Flush-to-Drum Front & Rear Clearances
- Zero Frame Overhang to High Curb Clearance
- Excellent Front & Rear Visibility
- Short Wheelbase for Tight Turns
- Center-Point Articulated Steering for Excellent Drum Tracking
- ROPS & Seat Belts Standard

SPECIFICATIONS:

		CR271
DRUM	Size	35x22 ins
	WXD	900X560 mm
OPERATING	Weight	3,265 lbs 1,480 kN
	VIBRATION	4,000 vpm 67 Hz
VIBRATION	Frequency	2,976 lbs 13.2 kN
	Centrifugal Force at Front Drum	.014 ins .35 mm
	Nominal Amplitude	
ENGINE	Make & Model	Honda GX-630R
	Horsepower	20.8 Hp @ 3600 rpm 15.5 kW @ 3600 min ⁻¹
BRAKING	Systems	Hydrostatic Service Brake; Mechanical Disc-Type Parking Brake





DRUM WIDTHS



SW300-1



SW320-1



SW330-1

39", 47", 51"

APPLICATIONS:

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

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
- Superior Shock Isolation Systems
- Dual Drum Hydrostatic Drive
- Excellent Curb Clearances
- Multi-Filtered Spray System
- ROPS and Seat Belts Standard
- Comfortable Bench Seat

SPECIFICATIONS:

	SW300-1	SW320-1
DRUM Size WxD	39X28 ins 1000X700 mm	47X28 ins 1200X700 mm
OPERATING Weight	6,360 lbs 2,885 kg	6,720 lbs 3048 kg
VIBRATION Frequency	4,000 vpm 67 Hz	4,000 vpm 67 Hz
Centrifugal Force per Drum	6,175 lbs 27.5 kN	7,055 lbs 31 kN
Nominal Amplitude	.013 ins .33 mm	.013 ins .33mm
ENGINE Make & Model	Kubota (Tier 4i) D1703-M-ET01	Kubota (Tier 4i) D1703-M-ET01
Horsepower	35 Hp @ 2800 rpm 26 kW @ 2800 min ⁻¹	35 Hp @ 2800 rpm 26kW @ 2800 min ⁻¹
BRAKING Systems	Hydrostatic Service Brake + SAHR + Combined Footbrake	

SW330-1
51X28 ins 1300X700 mm
6,900 lbs 3,130 kg
4,000 vpm 67 Hz
7,055 lbs 31 kN
.013 ins .33 mm
Kubota (Tier 4i) D1703-M-ET01
35 Hp @ 2800 rpm 26 kW @ 2800 min ⁻¹
Hydrostatic Service Brake + SAHR + Combined Footbrake

Photos shown here may include accessories, components and/or options which are not standard equipment on current models. For more information, please contact your local dealer.

ROLL TYPES & ROLLING WIDTHS



47", 51"

TW320-1

TW330-1

APPLICATIONS:

- Small to Medium Size commercial Projects Where Smooth Mat Surface Texture is Important
- Parking Lots and Driveways
- Municipal and County Roads
- Highway Shoulder Work
- Tennis and Basketball Courts
- Bicycle Paths
- Patchwork and Utility Repair

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
- Superior Shock Isolation Systems
- Multi-Filtered Spray System
- ROPS and Seat Belts Standard
- Optional eXACTCOMPACT Meter
- Comfortable Bench Seat
- Separate Release Agent Tank

SPECIFICATIONS:

		TW320-1	TW330-1
DRUM	Size	47X28 ins	51X28 ins
	WxD	1200X700 mm	1300X700 mm
PNEUMATIC TIRES		9.5/65-15-6 PR	9.5/65-15-6 PR
OPERATING	Weight	6,329 lbs 2,871 kg	6,414 lbs 2,910 kg
	VIBRATION		
	Frequency	4000 vpm 67 Hz	4000 vpm 67 Hz
	Centrifugal Force	7,055 lbs 31 kN	7,055 lbs 31 kN
	Nominal Amplitude	.013 ins .33 mm	.013 ins .33 mm
ENGINE	Make & Model	Kubota (Tier 4i) D1703-M-ET01	Kubota (Tier 4i) D1703-M-ET01
	Horsepower	35Hp @ 2800 rpm 26 kW @ 2800 min ⁻¹	35 Hp @ 2800 rpm 26 kW @ 2800 min ⁻¹
BRAKING	Systems	Hydrostatic Service Brake + SAHR + Combined Footbrake	

Photos shown here may include accessories, components and/or options which are not standard equipment on current models. For more information, please contact your local dealer.



DRUM WIDTHS

58"



SW652-1



SW652ND-1

OSCILLATION (NUTATION)

APPLICATIONS:

- Residential and Commercial Paving Projects
- Non-Vibratory Spec Jobs Where Oscillation is Required
- Longitudinal Joint Density (ND)
- Bridge Decks, Road Widening and Ramps
- Municipal and County Roads
- State Highways
- Old Urban Areas with Shallow, Fragile Utilities, Brittle Masonry Foundations, and Around Hospitals, as well as Any Area Where Sensitive Equipment is Being Used

SPECIFICATIONS:

		SW652	SW652ND
DRUM	Size	58X42 ins	58X42 ins
	WxD	1480X1070 mm	1480X1070 mm
OPERATING	Weight	16,205 lbs 7,350 kg	16,865 lbs 7,550 kg
	VIBRATION/OSCILLATION	4,000 vpm/3,000 vpm	2,940 vpm
	Frequency	67 Hz/50 Hz	49 Hz
	Centrifugal Force per Drum	13,340 lbs/15,510 lbs 62 kN/69 kN	15,285 lbs/27,875 lbs 68 kN/124 kN
	Nominal Amplitude	.012 ins/.024 ins .30 mm/.60 mm	.02 ins/.03 ins .52 mm/.65 mm
ENGINE	Make & Model	Kubota (Tier 4i) V3307	Kubota (Tier 4i) V3307
	Horsepower	74 Hp @ 2200 rpm 55 kW @ 2050 min ⁻¹	78 Hp @ 2200 rpm 55 kW @ 2050 min ⁻¹
BRAKING	Systems	Hydrostatic Service Brake + SAHR + Combined Footbrake	

FEATURES & BENEFITS:

- Oscillates or Vibrates **Both** Drums
 - All Oscillation–Vibration Controls at Instrument Panel
 - Machined Drums w/ Chamfered Edges
 - Excellent Drum Edge-to-Edge Visibility
 - Heavy-Duty Center Hitch Design
 - Superior Shock Isolation Systems
 - Independent Drum Vibration
 - Great Side and Curb Clearances
 - Multi-Filtered Spray System
 - Dual Drum Hydrostatic Drive
 - ROPS and Seat Belts Standard
-
- ND Model is the Only Model on the Market Capable of Switching between Oscillation and Vibration on **Both** Drums
 - ND Model Compacts Both Thin Lifts with Double Drum Oscillation and Thick Lifts with Double Drum Vibration



DRUM WIDTHS



67", 79"

SW800-II

SW850-II

SW770-HF

SW770-ND

APPLICATIONS:

- High Production Interstate Highways and State Highway Work
- Airport Runways, Taxiways
- Large Commercial Developments
- High Production, Thin Overlays
- SW770ND features Nutation or regular vibration on both drums, to create a dense, smooth finish

FEATURES & BENEFITS:

- 4000 VPM – 10 IPF @ 4.55 MPH
- Counter-Rotating Eccentrics
- All Vibration Controls at Panel
- Choice of Several Amplitudes
- Machined Drums w/ Chamfered Edges
- Independent Drum Vibration
- Heavy-Duty Center Hitch Design
- Superior Shock Isolation Systems
- 180° Seat Rotation
- Multi-Filtered Spray System
- ROPS and Seat Belts Standard
- Dual Water Spray Systems at Each Drum



EXACTCOMPACT is standard on SW850-II. Optional on SW800-II.

SPECIFICATIONS:

	SW800-II	SW850-II
DRUM Size WxD	67X51 ins 1700X1300 mm	79X55 ins 2000X1400 mm
OPERATING Weight	24,030 lbs 10,900 kg	29,030 lbs 13,170 kg
VIBRATION Max. Frequency	4,000 vpm 67 Hz	4,000 vpm 67 Hz
Max. Centrifugal Force per Drum	27,120 lbs 121 kN	33,290 lbs 148 kN
Nominal Amplitude	0.013 ins/.022 ins .33 mm/.55 mm	0.013 ins /0.022 ins .33 mm/.55 mm
ENGINE Make & Model	Deutz (Tier 3) TCD2012L04-2V	Deutz (Tier 3) TCD2012L04-2V
Horsepower	127 Hp @2300 rpm 95 kW @2300 min ⁻¹	127 Hp @2300 rpm 95 kW @2300 min ⁻¹
BRAKING Systems	Hydrostatic Service Brake + SAHR + Combined Footbrake	

NUTATION

SW770-HF	SW770-ND
67x51 ins 1700x1300 mm	67x51 ins 1700x1300 mm
23,810 lbs 10,800 kg	23,810 lbs 10,800 kg
2,520 vpm/4,020 vpm 42 Hz/67 Hz	3000 vpm 50 Hz
29,675 lbs 131 kN	29,675 lbs 131 kN
.013 ins/.026 ins .33 mm/.66 mm	.013 ins/.026 ins .33 mm/.66 mm
Isuzu (Tier 3) 4JJ1XDIA	Isuzu (Tier 3) 4JJ1XDIA
123 Hp @2200 rpm 91 kW @2200 min ⁻¹	123 Hp @2200 rpm 91 kW @2200 min ⁻¹
Hydrostatic Service Brake + SAHR + Combined Footbrake	



DRUM WIDTHS

79", 84"



SW880



SW990

APPLICATIONS:

- High Production Interstate Highways and State Highway Work
- Airport Runways, Taxiways
- Large Commercial Developments
- High Production, Thin Overlays



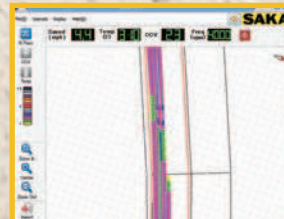
EXACTCOMPACT is built into the control panel of the SW880 and SW990. Companion auto-speed controls are also standard on these models.

SPECIFICATIONS:

		SW880	SW990
DRUM	Size	79X55 ins	84X55 ins
	WxD	2000X1400 mm	2130X1400 mm
OPERATING	Weight	29,560 lbs 13,410 kg	30,800 lbs 13,970 kg
	VIBRATION	4,000 vpm 67 Hz	4,000 vpm 67 Hz
	Max. Centrifugal Force per Drum	39,790 lbs 178 kN	41,590 lbs 185 kN
	Nominal Amplitude	.013 ins/.025 ins .33 mm/.64 mm	.013 ins/.026 ins .33 mm/.66 mm
ENGINE	Make & Model	Deutz (Tier 3) TDC2012L04-2V	Deutz (Tier 3) TCD2012L06-2V
	Horsepower	131 Hp @2400 rpm 98 kW @2400 min ⁻¹	166Hp @2400 rpm 124 kW @2400 min ⁻¹
BRAKING	Systems	Hydrostatic Service Brake + SAHR + Combined Footbrake	

FEATURES & BENEFITS:

- 4000 VPM for High Production Paving
- Auto-Speed Control to Lock in Impacts Per Foot for Consistent Smoothness and Density
- All Amplitude and Frequency Controls at The Operator's Station
- Counter-Rotating Eccentrics are Standard
- Winterization Kit is Standard
- Frame Will Clear Standard Steel Guard Rail Height Allowing Drum Edge Against Guard Rail
- Heavy-Duty Hitch Design
- Superior Shock Isolation Systems
- 180° Seat Rotation 5-Positions
- Improved Visibility
- Easy Access Service Compartment
- User Friendly Control Panel
- Dual Spray Bars and Pumps at Each Drum



SAKAI'S new CIS Intelligent Compaction option brings simple and accurate real time right to the operator station. Unlike complicated competitive IC's, just press the START button and go roll.



ROLL TYPE & ROLLING WIDTH

83"



R2H-2

APPLICATIONS:

- Great on High Production, Thin Overlays Where Smoothness is Important
- Breakdown or Finish Roller
- Meets Non-Vibratory Compaction Specs
- Medium to Large Highway and Commercial Paving Jobs
- Non-Vibratory, High Contact Pressure

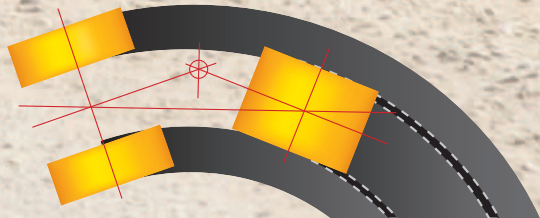
FEATURES & BENEFITS:

- Higher PLI than Large Double Drums in Static Mode
- High Production at 83" Compaction Width
- Meets Non-Vibratory Compaction Specs
- Articulated Center-Point Steering Ensures Complete Drum Overlap Through Any Turn Radius

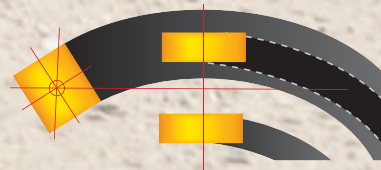
SPECIFICATIONS:

		R2H-2
DRUMS	Front Drum Size (2) WxD	22X64 ins 550X1620 mm
	Rear Drum Size (1) WxD	43X64 ins 1100X1620 mm
OPERATING	Weight	31,625 lbs 14,345 kg
	COMPACTION Total Rolling Width	83 ins 2100 mm
	Static Linear Pressure	365 pli 66 kg/cm
ENGINE	Make & Model	Kubota (Tier 4i) V3307-DI
	Horsepower	74 Hp @ 2200 rpm 55 kW @ 2200 min ⁻¹
BRAKING	Systems	Hydrostatic Service Brake + SAHR + Combined Footbrake

Sakai R2H-2



Conventional Roller



Articulated Center Point
Steering Ensures Tracking and
Full-Width Compaction



ROLL TYPES & ROLLING WIDTHS



77"

GW750-2

PNEUMATIC TIRES VIBRATE

APPLICATIONS:

- Airport Runways
- Road Shoulders, Ramps & Widening
- Municipal Streets Through Interstate Highways
- Large Commercial Projects
- SMA Pavements
- Medium to High Tonnage Jobs
- Aggregate Road Base Materials
- Excellent on Thick Lifts
- Cold-In Place Recycle (CIR)
- Roller Compacted Concrete (RCC)

FEATURES & BENEFITS:

- Pneumatic Tires Vibrate
- 4 Amplitude Setting
- No Need to Change Tire Pressure
- No Ballast Required
- Develops Compactive Efforts Higher Than Those of a 25 Ton Roller
- Provides Vibration and a Kneading Effect for Uniform Compaction from Top to Bottom of the Mat
- Rolling Width of 77 Inches
- Over 13,000 Pounds Centrifugal Force
- Large Capacity Spray System
- Custom Designed, Superflat Pneumatic Tires

	GW750-2
PNEUMATIC TIRES	14/70-20-12PR (OR)
OPERATING	
Weight	20,370 lbs 9,240 kg
Gradability	38%
Pressurized Spray	158 gal (79x2) 600 liters (300x2)
COMPACTION	
Rolling Width	77 ins 1,955 mm
Centrifugal Force Ranges	1,765 lbs/5,510 lbs/9,415 lbs/13,140 lbs 8 kN/25 kN/42 kN/58 kN
Vibration Frequency	2,400 vpm 40 Hz
ENGINE	
Make & Model	Isuzu (Tier 3) 4JJ1XDIA
Horsepower	123 Hp @ 2300 rpm 92 kW @ 2300 min ⁻¹
BRAKING	
Systems	Hydrostatic Service Brake + SAHR + Combined Footbrake





PC600



PC800



PF120



PF150



PF281



PF301

PLATE COMPACTORS

APPLICATIONS:

- Great for Compaction in Confined Areas
- Designed for Compacting Asphalt, Granular and Mixed Materials
- For use in Many Applications Such as Base Material, Asphalt Patching and Utility Construction

FEATURES & BENEFITS:

- High Quality Gas Engines
- Abrasion-Resistant Alloy
- Advanced Isolation System Reduces Vibration at the Handle
- Transport (Wheel) Kit Available for PC600 & PC800 series
- Sprinkler System for Asphalt on PC Models
- Water Tank standard on all PC models
- Easy to Own and Operate

SPECIFICATIONS:

	PC600	PC800	PF120	PF150	PF281	PF301
PLATE SIZE	13.8 x 21 ins 350 x 520 mm	20 x 23 ins 500 x 585 mm	16 x 14 ins 400 x 600 mm	20 x 28 ins 500 x 700 mm	18 x 34 ins ** 445 x 860 mm **	18 x 34 ins 445 x 860 mm
COMPACTION WIDTH Weight	13.8 ins 350 mm	20 ins 500 mm	15.7 ins 400 mm	20 ins 500 mm	17.5 ins ** 445 mm **	18 ins 445 mm
OPERATING WEIGHT	147 lbs 66.7 kg	214 lbs 97.1 kg	271 lbs 123 Kg	300 lbs 136 Kg	732 lbs 332 Kg	796 lbs 361 Kg
VIBRATION Frequency	6,000 VPM 100 Hz	5,820 VPM 97 Hz	5,580 VPM 93 Hz	5,580 VPM 93 Hz	4200 VPM 70 Hz	4200 VPM 70 Hz
Impact Force	2,646 lb 11.8 kN	3,642 lbs 16.2 kN	5,845 lbs 26 kN	6,965 lbs 31 kN	8,543 lbs 38 kN	10,360 lbs 46 kN
ENGINE Make and Model	Honda GX120U1	Honda GX160U1	Honda GX160U	Honda GX200U	Honda GX270K1	Yanmar L70
Horsepower	3.89 hp 2.9kW	5.36 hp 4.0 kW	5.5 hp 4.1 kW	6.5 hp 4.8 kW	9 hp 6.6 kW	9 hp 6.6 kW
FUEL CAPACITY	.07 gal 2.5 lit	1 gal 3.6 lit	1 gal 3.6 lit	1 gal 3.6 lit	1.6 gal 6 lit	1.4 gal 5.4 lit
SPRINKLER CAPACITY	2.3 gal 10 lit	2.8 gal 10 lit	N/A N/A	N/A N/A	N/A N/A	N/A N/A

**24"/600mm with available extension plates.



RS45



RS65



RS75



HS67ST

RAMMERS

FEATURES & BENEFITS:

- Quality 4-Cycle Honda Engines
- Superior Shock Isolation System Lowers Vibration Level at Operator Handle
- Height-Adjustable Handles for Operator Convenience
- All-in-One Fuel Off Lever and Engine Stop Switch
- Diaphragm Carburation

SPECIFICATIONS:

	RS45	RS65	RS75
SHOE SIZE	9 x 13.5 ins 230-340 mm	11 x 13.5 ins 280-340 mm	11 x 13.5 ins 280-340 mm
COMPACTION WIDTH	9 ins 230 mm	11 ins 280 mm	11 ins 280 mm
OPERATING WEIGHT	112 lbs 50 Kg	160 lbs 72 Kg	172 lbs 78 Kg
VIBRATION Frequency	650-690 IPM 10.8-11.5 Hz	640-680 IPM 10.7-11.3 Hz	680-720 IPM 11.3-12 Hz
Impact Force	1,466 lbs 6 kN	3,750 lbs 15 kN	4,498 lbs 18 kN
RAMMING STROKE	1.6-2.5 ins 40-60 mm	1.6-2.5 ins 40-60 mm	1.6-2.5 ins 40-60 mm
ENGINE Make and Model	Honda GX100KPRF2	Honda GX100KPRF2	Honda GX120K1
Horsepower	2.95 hp 2.2 kW	2.95 hp 2.2 kW	3.75 hp 2.8 kW

WALK BEHIND ROLLER

FEATURES & BENEFITS:

- Steerable Front Drum Adds Maneuverability & Safety
- Short Side Frame Clearance for Compaction Close to Obstructions
- Quality Honda Gas Engine

SPECIFICATIONS:

	HS67ST
DRUM SIZE	25 x 14 ins 635 x 355 mm
COMPACTION WIDTH	25 ins 635 mm
OPERATING WIDTH	1,655 lbs 750 mm
VIBRATION Frequency	3,300 VPM 55 Hz
Centrifugal Force	2,655 lbs* 11.8 mm
Amplitude	N/A N/A
ENGINE Make & Model	Honda GX390U1
Horsepower	6.44 hp 4.8 kW
FUEL CAPACITY	1.3 gal 4.8 lit
SPRINKLER CAPACITY	7.9 gal 30 lit

*Per Drum



Photos shown here may include accessories, components and/or options which are not standard equipment on current models. For more information, please contact your local dealer.

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