



SV521D-c
Smooth Drum

VIBRATORY SINGLE DRUM ROLLER

The SV521-c series rollers are the 7th generation of SAKAI's reputable 10-ton class vibratory single rollers and are further refined for better use. They are widely applicable to medium and heavy soil compaction works and the most suitable drum type can be selected from four(4) drum variations.

Proven Vibratory Compaction Performance

- High amplitude (2.05 mm for SV521D-c)
- High centrifugal force (26 tons)
- High density and uniform compaction throughout the layer
- Enough operating power in high altitude area (CUMMINS Engine/125HP)

Excellent Traction

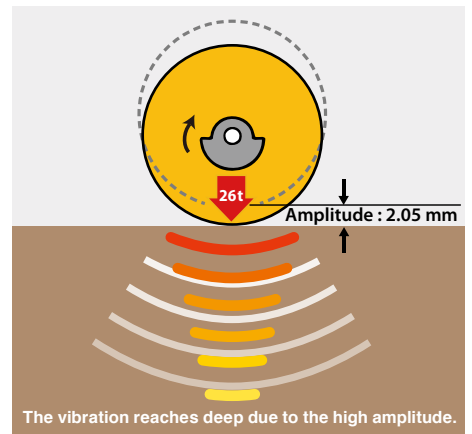
- All-wheel (drum and tires) drive system for all SV521-c models (standard equipment)

Economical Operation & Low Maintenance Costs

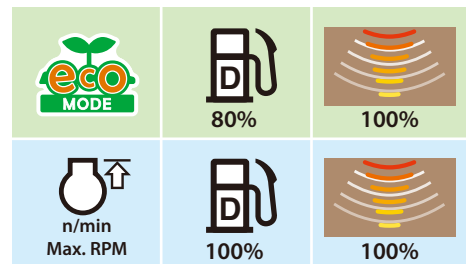
- Fuel saving ECO Compaction Mode as a standard equipment
- Durable and high quality components for prolonged service intervals as well as low maintenance costs

Operator Comfort & Safety

- Sakai's original shock absorbing system for better vibration isolation and longer parts life
- Increased safety by an emergency pedal brake in addition to the conventional service and parking brakes
- Complete vandalism protection devices



Powerful Vibration & High Amplitude



ECO Compaction Mode

Reasons for being **No.1**

Durable Instrument Panel & Brake Pedal



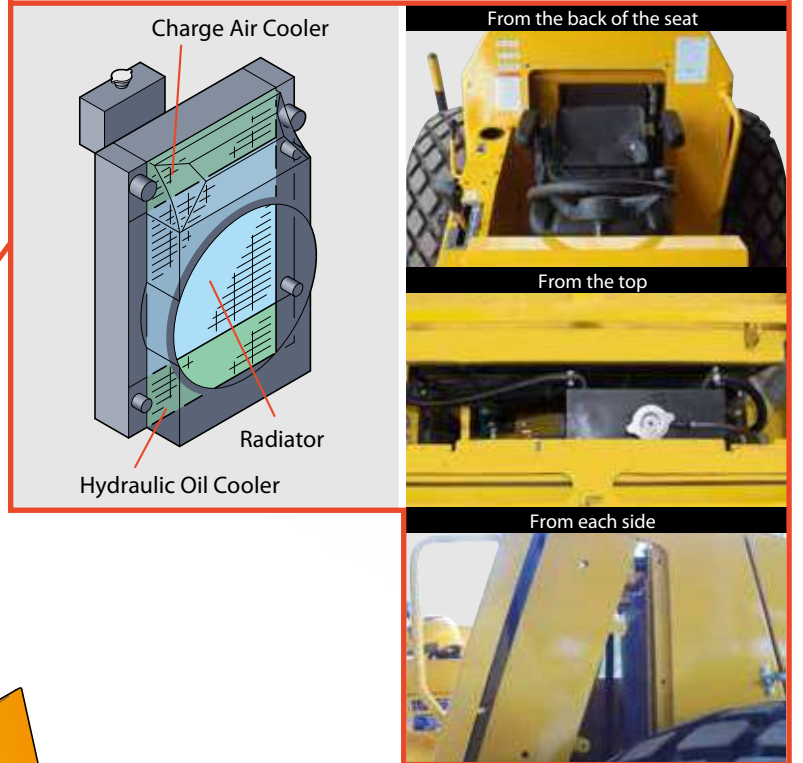
Standard : AWNING Option : ROPS-Canopy, Enclosed Cabin Enclosed ROPS-Cabin



Reinforced AWNING : • Stays : Bending structure • Roof : Rubber mounted



Side by Side Mounted Radiator, Hydraulic oil Cooler and Charge Air Cooler, Access doors for cleaning and service



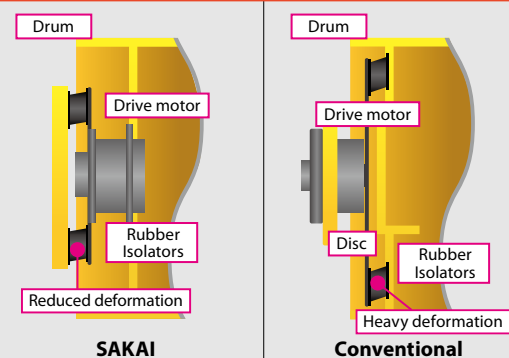
Powerful Compaction Force & High Amplitude

For SV521D-c

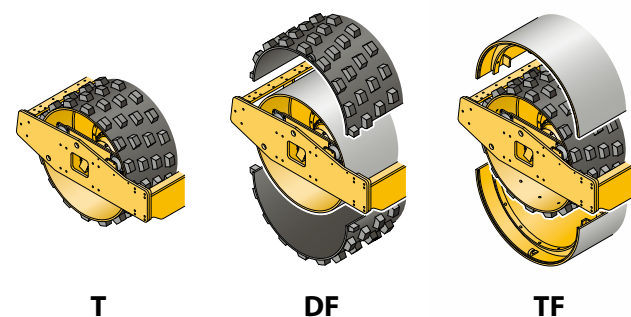
- Total applied force : 31.8 tons
- Centrifugal force : 26 tons
- High amplitude : 2.05 mm

*ECO Compaction Mode is standard.

Unique Shock Absorbing Design for better isolation and prolonged parts life (4-5 times longer)



Drum Variations in addition to D type



Durable Center-pin Hitch Lube. cycle : 250 hrs



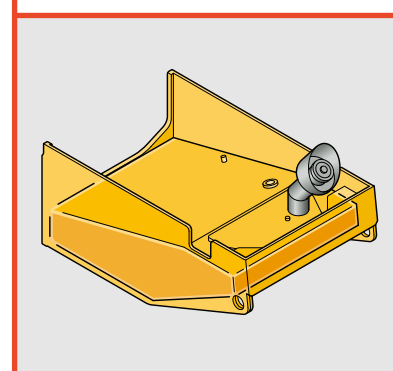
Large Size Sedimenter • Water Deposit Capacity : 118 ml



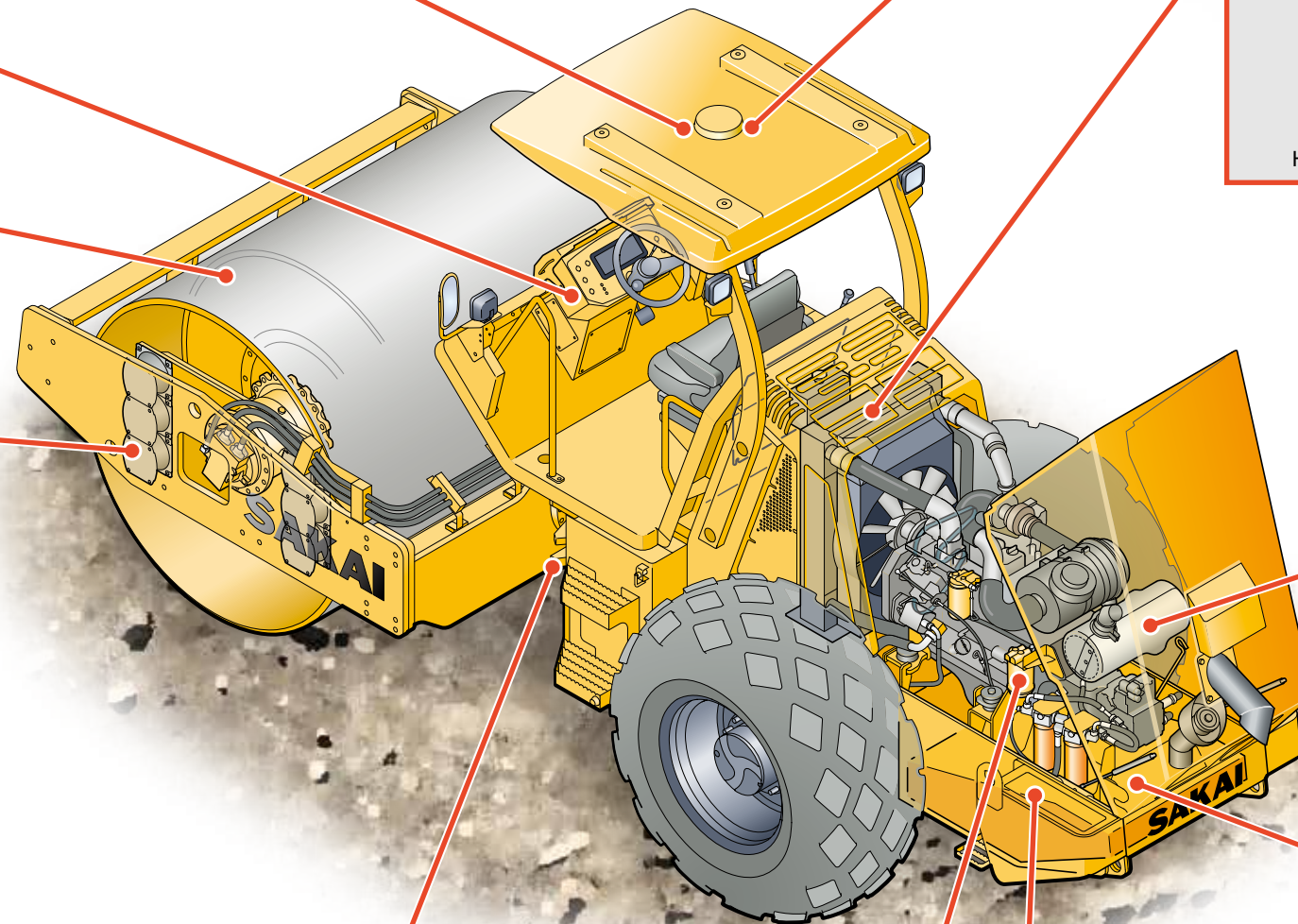
Tool Box in each side



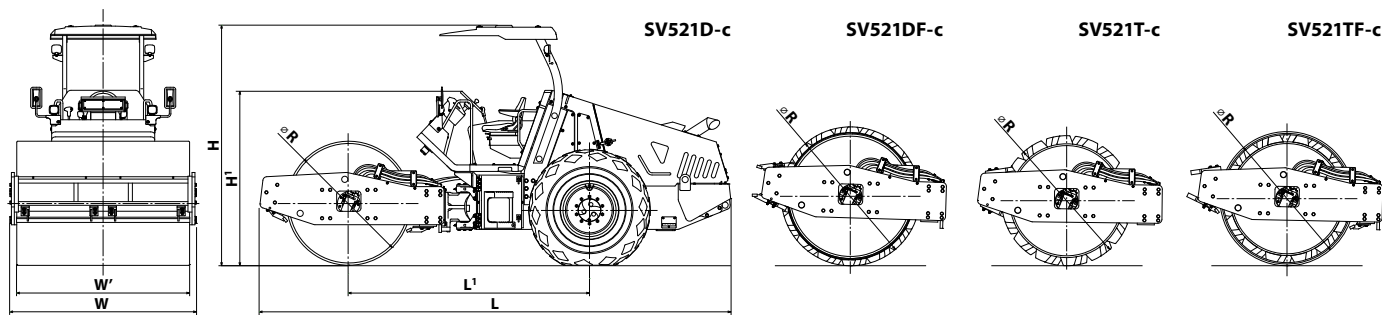
Solid Fuel Tank



Muffler Cover to prevent burns



SV521-c Series




TYPE		Vibratory Single Drum Roller				
MODEL		SV521D-c	SV521DF-c *1	SV521T-c	SV521TF-c *2	
DRUM TYPE		Smooth Drum	Combi. Drum	Padfoot Drum	Combi. Drum	
WEIGHTS	Max. operating weight with AWNING	kg (lbs.)	10,290 (22,685)	11,930 (26,300)	10,630 (23,435)	12,900 (28,440)
	Operating weight with AWNING	kg (lbs.)	10,200 (22,485)	11,840 (26,100)	10,540 (23,235)	12,810 (28,240)
	Load on front axle - operating weight with AWNING	kg (lbs.)	5,775 (12,730)	7,480 (16,490)	6,155 (13,570)	8,415 (18,550)
	Load on rear axle - operating weight with AWNING	kg (lbs.)	4,425 (9,755)	4,360 (9,610)	4,385 (9,665)	4,395 (9,690)
	Static Linear Pressure(drum) - operating weight with AWNING	kg/cm (lbs./in.)	27.1 (150)	-	-	39.5 (220)
PERFORMANCE	Centrifugal force (L / H)	kN(lbs.) [kgf]	150 (33,720) [15,295] / 255 (57,325) [26,000]			
	Frequency @ low amplitude/high amplitude	Hz (vpm)	33.3 (2,000) / 28.8 (1,730)			
	Amplitude (L / H)	mm (in)	0.87 (0.034) 2.05 (0.081)	0.62 (0.024) 1.47 (0.058)	0.81 (0.032) 1.90 (0.075)	0.53 (0.021) 1.25 (0.049)
	Number of speeds: Speed range (L / H)	km/h (mph)	2 speeds: 0-6 (0-3.7) / 0-10 (0-6.2)			
	Gradeability	% (°)	63% (32°)	56% (29°)	63% (32°)	49% (26°)
DIMENSIONS	Turning radius at compacted surface (inner / outer)	m (in)	3.4 (134) / 5.6 (221)			
	Overall length L	mm (in)	5,810 (229)			
	Overall width W	mm (in)	2,300 (91)			
	Overall height (without AWNING) H¹	mm (in)	2,160 (85)	2,195 (86)	2,165 (85)	2,180 (86)
	Overall height (with AWNING) H	mm (in)	2,960 (117)	2,995 (118)	2,975 (117)	2,985 (118)
	Wheelbase L¹	mm (in)	2,970 (117)			
	Compaction width W'	mm (in)	2,130 (84)			
	Drum width W' x Drum diameter R	mm (in)	2,130 x 1,530 (84 x 60)	2,130 x 1,708 (84 x 67)	2,130 x 1,600 (84 x 63)	2,130 x 1,650 (84 x 65)
	Pad height	mm (in)	-	75 (3)	-	100 (4)
	Number of pads	pcs.	-	160	-	140
	Shell thickness	mm (in)	25 (1.0)		22 (0.9)	
	Tire size x Number of tires		23.1-26-8PR (OR) x 2			
	Ground clearance	mm (in)	400 (15.7)	370 (14.6)	390 (15.4)	380 (15)
Curb clearance	mm (in)	500 (19.7)	555 (21.9)	520 (20.5)	535 (21.1)	
Side clearance	mm (in)	85 (3.3)				
ENGINE	Make & Model	CUMMINS "B3.9" (EPA-Tier 2, EU Stage-II: equivalent)				
	Type	Water-cooled, 4-cycle, 4-cylinder, overhead valve, direct injection type diesel engine with turbocharger				
	Displacement	L (cu. in.)	3,900 (238.0)			
	Rated output	kW (HP)/min ⁻¹	93.0 (125) / 2,200			
	Electric system - battery	V (V / Ah x Qty)	24 V (12 V / 80 Ah, 655 CCA x 2 pcs.)			
Electric system - alternator	V/A	24 V / 70 A				
DRIVE SYSTEM	Power transmission type	Hydrostatic transmission				
	Drive wheels	Drum and tires				
VIBRATION SYSTEM	Power transmission type	Hydrostatic transmission				
	Number of amplitudes	2				
	Vibrator type	Single eccentric shaft type				
BRAKE SYSTEM	Service brake (primary brake)	Hydrostatic, dynamic brake (FNR lever)				
	Parking brake (secondary brake)	Spring applied, hydraulically released type multi-disc brake (Panel button)				
	Emergency brake	Hydrostatic + Spring applied, hydraulically released type multi-disc brake (Brake pedal)				
STEERING SYSTEM	Type	Hydraulic type (articulated)				
	Articulation / Oscillation angle	± (°)	±37° / ±9°			
FLUID CAPACITY	Fuel tank	L (gal.)	215 (56.8)			
	Hydraulic oil tank	L (gal.)	50 (13.2)			

*1) Refer the specifications of D for DF without padfoot shells.
*2) Refer the specifications of T for TF without padfoot shells.

● Specified figures have a tolerance of ±5%.
● All specifications may be changed without notice.
● Specified figures are in SI Units followed by their equivalent English Units of measurement in ().

● Max. operating weight : Fuel=100%, Water=100%, Operator=75 kg
● Operating weight : Fuel=50%, Water=50%, Operator=75 kg
● The photos may contain optional equipment and/or attachment.

* Using low quality fuel may cause engine failure.

 ISO9001 certified Tokyo Head Office,
Tokyo Factory, Global Service Division,
Research & Development (R&D) HQ.

SAKAI HEAVY INDUSTRIES, LTD.

HEAD OFFICE: 1-4-8, SHIBA DAIMON, MINATO-KU, TOKYO JAPAN
TELEPHONE: +81-3-3431-9971
FACSIMILE: +81-3-3436-6212

Standard Equipment :

- Instruments ● Gauges ● ECO MODE ● Scrapers for both directions
- Backup alarm ● Horn ● AWNING ● Comfort seat
- Front-facing working lights (2 pcs.) ● Rear-facing working lights (2 pcs.)
- Mirrors ● 4 points lifting ● Accessory socket (24 V) ● Safety steps
- Vandalism protection

Optional Equipment :

- Enclosed CABIN ● Enclosed ROPS-Cabin w/seat belt ● ROPS-Canopy w/seat belt
- Air conditioner ● Deluxe seat ● Turn signal lamp ● Combi. lamp
- Rotary beacon ● Pad locks for vandalism protection