

SAKAI®

SV414

Series

Soil Compactor



SV414D

Oscillatory/Vibratory Single Drum Roller

Performance

- 74HP (55.0kW) water-cooled Cummins diesel engine
- No DPF, no SCR
- High traction capability ensures compaction in both forward and reverse-even on jobs with soft ground, slopes, or rough terrains
- Manual traction control allows backing up steep slopes in reverse

Proven Compactive Performance

- Reaches target density in fewer roller passes
- Provides higher centrifugal force and amplitude
- Achieves uniform compaction throughout lift thickness

Selectable Osc / Vibe (SV414ND)

- No damage to substructures
- Gear-driven, no belt maintenance
- Reduced operator fatigue vs. vibe

Low Operating Costs

- Durable, high quality components such as hydraulic, drum, and center-pin hitch assure longer life and lower maintenance costs
- Sakai's unique drum mounting system extends the life of the drum isolators

Operator Comfort and Safety

- Patented drum vibration isolation system and floating deck keep the operator free from vibration
- Brake pedal comes standard for added safety

Convenience Features

- 12V power outlet standard

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SV414T



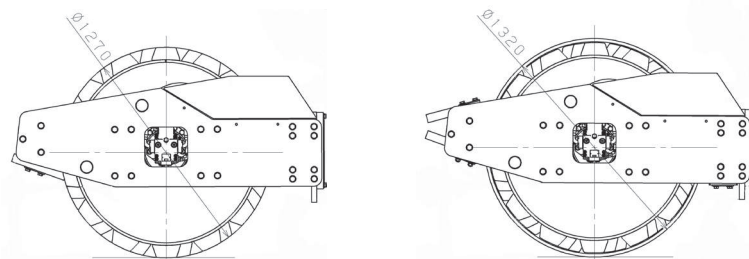
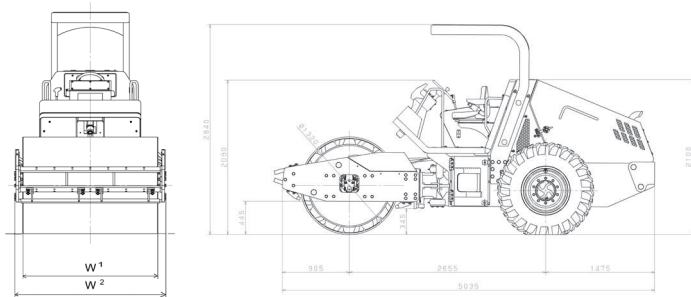
SV414TF



SV414ND

Options shown. Contact your dealer for details.

SV414 Series



TYPE		Vibratory Single Drum Roller					
MODEL		SV414D	SV414T	SV414TF	SV414ND		
CHASSIS MODEL		3SV59					
WEIGHTS	Max. operating weight with ROPS	kg(lbs)	7,150 (15,765)	8,380 (18,475)	7,430(16,380)		
	Operating weight with ROPS	kg(lbs)	7,090 (15,630)	8,320 (18,340)	7,370(16,250)		
	Load on front axle - operating weight with ROPS	kg(lbs)	3,490 (7,695)	4,720 (10,405)	3,770(8,310)		
	Load on rear axle - operating weight with ROPS	kg(lbs)	3,600 (7,935)				
PERFORMANCE	Centrifugal force (L / H)	kN(lbs)[kgf]	93 / 118 (20,905 / 26,525) [9,485 / 12,030]		Vibe: 106(23,830)[10,810] Osci: 134 (30,125)[13,665]		
	Frequency (L / H)	Hz(vpm)	38 / 30 (2,280 / 1,800)		Vibe: 30 (1,800) / Osci: 36 (2,160)		
	Amplitude (L / H)	mm(in)	0.75 / 1.55 (0.030 / 0.061)		Vibe: 1.26 (0.050) Osci: 1.03 (0.041)		
	Dynamic linear pressure for front drum - operating weight with ROPS (L / H)	N/cm (lb/in)	748 / 895 (425 / 510)	-	819 / 966 (465 / 550)	Vibe: 629 (360)	
	Number of speed shifts		3				
	Speed range (L / H)	km/h(mph)	0 - 4 / 0 - 6 / 0 - 9.5 (0 - 2.5 / 0 - 3.7 / 0 - 5.9)		0 - 4 / 0 - 6 / 0 - 10 (0 - 2.5 / 0 - 3.7 / 0 - 6.2)	0 - 4 / 0 - 6 / 0 - 9.5 (0 - 2.5 / 0 - 3.7 / 0 - 5.9)	
	Gradeability	%(°)	63 (32)				
	Turning radius compacted surface (inside / outside)	m(in)	3.1 / 5.1 (123 / 201)				
	DIMENSIONS	Overall length L ²	mm(in)	5,035 (198)			
		Overall width W ²	mm(in)	1,905 (75)			
Overall height (without ROPS)		mm(in)	2,075 (82)	2,095 (82)	2,100 (83)	2,060 (81)	
Overall height (with ROPS) H		mm(in)	2,810 (111)	2,830 (111)	2,840 (112)	2,815 (111)	
Wheelbase L ¹		mm(in)	2,655 (105)				
Compaction width W ¹		mm(in)	1,700 (67)		1,690 (67)		
Drum width W ¹ / Drum diameter R		mm(in)	1,700 / 1,220 (67 / 48)	1,700 / 1,270 (67 / 50)	1,700 / 1,320 (67 / 52)	1,690 / 1,256 (67 / 49)	
Pad height		mm(in)	-	75 (3.9)	-	-	
Number of pads		pcs.	-	112	-	-	
Shell thickness		mm(in)	22 (0.9)	16 (0.6)	-	22 (0.9)	
Tire size x Number of tires			14.9-24-8PR(OR)				
Inflation (each wheels)		kPa(psi)	177 (26.0)				
Ground clearance		mm(in)	305 (12.0)	330 (13.0)	345 (13.6)	315 (12.4)	
Curb clearance		mm(in)	395 (15.6)	430 (16.9)	445 (17.5)	415 (16.3)	
Side clearance		mm(in)	102.5 (4.0)		107.5 (4.2)		
ENGINE	Make	CUMMINS					
	Model	QSF2.8					
	EPA emission standard	EPA-Tier4					
	Type	Diesel, water cooled, 4 cycle, 4 cylinder with turbo charger					
	Displacement	L(cu.in)	2.800 (171.0)				
	Rated output	kW(HP)/min ⁻¹	55.0 (74) / 2,400				
	Electric system battery	V(V/CCA×Qty)	12V (12V / 1,000 × 1)				
	Electric system alternator	V/A	12V / 120A				
DRIVE SYSTEM	Power transmission type	Hydrostatic					
	Drive wheel	All wheel (drum & tires)					
VIBRATION SYSTEM	Power transmission type	Hydraulic					
	Number of amplitude	2					
BRAKE SYSTEM	Vibrator type	Single eccentric shaft		Double eccentric shafts			
	Service brake	Dynamic braking through hydrostatic drive system / FNR lever					
STEERING SYSTEM	Secondary brake (Emergency brake)	Hydrostatic + spring applied hydraulically released type (SAHR) / Brake pedal					
	Parking brake	SAHR / Panel button					
FLUID CAPACITY	Fuel tank	L(gal)	145 (38.3)				
	Hydraulic oil tank	L(gal)	53 (14)				

• 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
 • Cab, Blade Kit, Strobe, LED Light Kit, Mirror Kit