

SAKAI®

SV414

Series

Soil Compactor



SV414D

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

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

SV414T



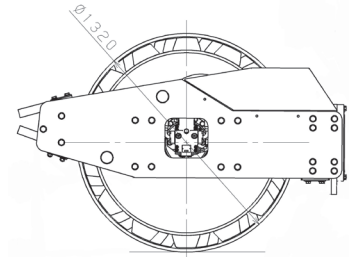
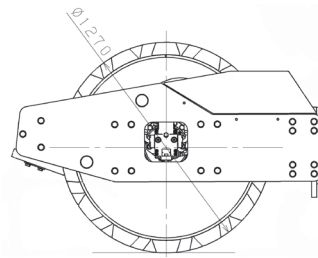
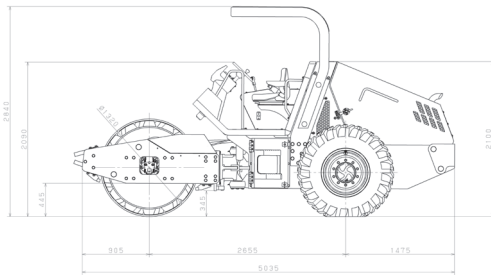
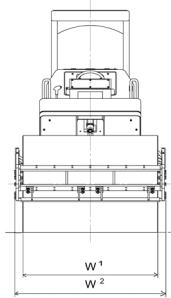
SV414TF



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Options shown. Contact your dealer for details.

SV414 Series



TYPE		Vibratory Single Drum Roller			
MODEL		SV414D	SV414T	SV414TF	
CHASSIS MODEL		3SV59			
WEIGHTS	Max. operating weight with ROPS	7,150 (15,765)		8,380 (18,475)	
	Operating weight with ROPS	7,090 (15,630)		8,320 (18,340)	
	Load on front axle - operating weight with ROPS	3,490 (7,695)		4,720 (10,405)	
	Load on rear axle - operating weight with ROPS			3,600 (7,935)	
PERFORMANCE	Centrifugal force (L / H)	93 / 118 (20,905 / 26,525) [9,485 / 12,030]			
	Frequency (L / H)	38 / 30 (2,280 / 1,800)			
	Amplitude (L / H)	0.75 / 1.55 (0.030 / 0.061)		0.50 / 1.00 (0.020 / 0.039)	
	Dynamic linear pressure for front drum - operating weight with ROPS (L / H)	748 / 895 (425 / 510)	-	819 / 966 (465 / 550)	
	Number of speed shifts	3			
	Speed range (L / H)	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)	
	Gradeability	63 (32)			
	Turning radius compacted surface (inside / outside)	3.1 / 5.1 (123 / 201)			
	DIMENSIONS	Overall length L ²	5,035 (198)		
		Overall width W ²	1,905 (75)		
Overall height (without ROPS)		2,075 (82)	2,095 (82)	2,100 (83)	
Overall height (with ROPS) H		2,810 (111)	2,830 (111)	2,840 (112)	
Wheelbase L ¹		2,655 (105)			
Compaction width W ¹		1,700 (67)			
Drum width W ¹ / Drum diameter R		1,700 / 1,220 (67 / 48)	1,700 / 1,270 (67 / 50)	1,700 / 1,320 (67 / 52)	
Pad height		-		75 (3.9)	
Number of pads		-		112	
Shell thickness		22 (0.9)	16 (0.6)		
Tire size × Number of tires		14.9-24-8PR(OR)			
Inflation (each wheels)		177 (26.0)			
Ground clearance		305 (12.0)	330 (13.0)	345 (13.6)	
Curb clearance		395 (15.6)	430 (16.9)	445 (17.5)	
Side clearance	102.5 (4.0)				
ENGINE	Make	CUMMINS			
	Model	QSF2.8			
	EPA emission standard	EPA-Tier4			
	Type	Diesel, water cooled, 4 cycle, 4 cylinder with turbo charger			
	Displacement	2.800 (171.0)			
	Rated output	55.0 (74) / 2,400			
	Electric system battery	12V (12V / 1,000 × 1)			
	Electric system alternator	12V / 120A			
DRIVE SYSTEM	Power transmission type	Hydrostatic			
	Drive wheel	All wheel (drum & tires)			
VIBRATION SYSTEM	Power transmission type	Hydraulic			
	Number of amplitude	2			
	Vibrator type	Single eccentric shaft			
BRAKE SYSTEM	Service brake	Dynamic braking through hydrostatic drive system / FNR 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 / Oscillation angle	37 / 9			
FLUID CAPACITY	Fuel tank	145 (38.3)			
	Hydraulic oil tank	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
• Compaction Control unit ; CCV,CIS • Telematics