

SAKAI®

SV544-1

Series

Vibratory Single Drum Compactor (84")

Achieve superior compaction and uniform density in fewer passes on high-volume site work projects. Suitable for highway and airport subgrades, embankments, dams, reservoirs, and large-scale commercial site prep.



SV544D-1

Key Specifications

- 148 hp (110 kW) Cummins F3.8
- 84" (2,130 mm) drum width
- Weights from 24,405 lbs (11,070 kg) up
- Up to 63% (32°) gradeability

Features

- Traction control comes standard
- Heavy-duty center hitch
- Long-life isolators last up to 5,000 hours
- ECO mode for fuel savings
- Safety: ROPS, retractable seatbelt, emergency foot-brake, handrails, backup alarm



SV544T-1 (w/ Cab)

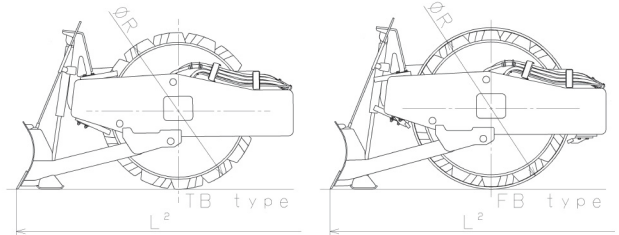
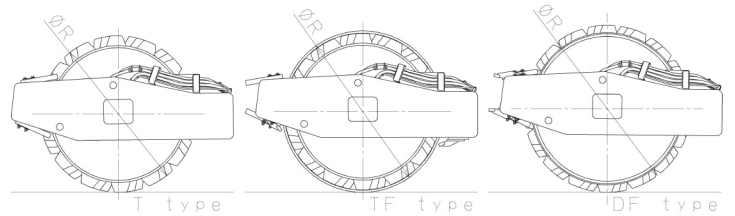
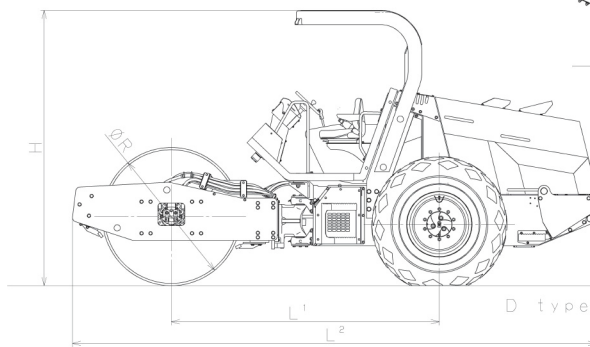
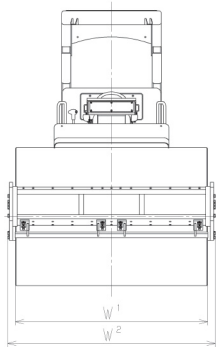
Benefits

- Analog controls: no failure-prone touch screens or multi-function panels
- High centrifugal forces via two amplitude choices
- Proven SAKAI reliability, ease-of-use, & durability
- Fully assembled in our Georgia, USA factory
- Legendary Japanese engineering
- Backed by USA-based support/parts
- Industry-leading 3 year / 3,000 hour warranty



SV544TB-1 (w/ Cab & Shell, see SV544FB specs)

SV544-1 Series



TYPE			Vibratory Single Drum Soil Compactor					
MODEL			SV544D-1	SV544T-1	SV544TB-1	SV544FB-1	SV544TF-1	SV544DF-1
CHASSIS MODEL			3SV75					
WEIGHTS	Max. operating weight with ROPS	kg(lbs)	11,160 (24,605)	11,570 (25,505)	12,340 (27,205)	14,610 (32,210)	13,840 (30,510)	12,870 (28,375)
	Operating weight with ROPS	kg(lbs)	11,070 (24,405)	11,490 (25,330)	12,260 (27,030)	14,530 (32,035)	13,760 (30,335)	12,790 (28,195)
	Load on front axle - operating weight with ROPS	kg(lbs)	5,730 (12,630)	6,120 (13,490)	7,180 (15,830)	9,500 (20,945)	8,410 (18,540)	7,480 (16,490)
	Load on rear axle - operating weight with ROPS	kg(lbs)	5,340 (11,770)	5,370 (11,840)	5,080 (11,200)	5,030 (11,090)	5,350 (11,795)	5,310 (11,705)
PERFORMANCE	Centrifugal force (L / H)	kN(lbs)/kgf	150 / 255 (33,720 / 57,325) [15,295 / 26,000]					
	Frequency (L / H)	Hz(vpm)	33.3 / 28.8 (2,000 / 1,730)					
	Amplitude (L / H)	mm(in)	0.89 / 2.02 (0.035 / 0.080)					
	Dynamic linear pressure for front drum - operating weight with ROPS (L / H)	N/cm (lb/in)	0.83 / 1.88 (0.033 / 0.074)					
	Number of speed shifts		3					
	Speed range (1 / 2 / 3)	km/h(mph)	0 - 4 / 0 - 6 / 0 - 10 (0 - 2.5 / 0 - 3.7 / 0 - 6.2)					
	Gradeability	%(°)	63 (32)					
	Turning radius compacted surface (inner/outer)	m(in)	3.4 / 5.5 (134 / 217)					
	Overall length L ²	mm(in)	5,805 (229)					
	Overall width W ²	mm(in)	2,300 (91)					
DIMENSIONS	Overall height (without ROPS)	mm(in)	2,190 (86)					
	Overall height (with ROPS) H	mm(in)	3,050 (120)					
	Wheelbase L ¹	mm(in)	2,970 (117)					
	Width with leveling blade	mm(in)	2,500 (98)					
	Compaction width W ¹	mm(in)	2,130 (84)					
	Drum width W ¹ / Drum diameter R	mm(in)	2,130 / 1,530 (84 / 60)					
	Pad height	mm(in)	100 (3.9)					
	Number of pads	pcs.	140					
	Shell thickness	mm(in)	25 (1.0)					
	Tire size × Number of tires		23.1-26-8PR(OR)×2					
ENGINE	Inflation (each wheels)	kPa(psi)	137 (20.0)					
	Ground clearance	mm(in)	405 (15.9)					
	Curb clearance	mm(in)	500 (19.7)					
	Side clearance	mm(in)	85 (3.3)					
	Make		CUMMINS					
	Model		F3.8 Performance Series					
	EPA emission standard		EPA Tier 4 Final / EU Stage V					
	Type		Diesel, water cooled, 4 cycle, direct injected, overhead valve, 4 cylinder inline w/ turbocharger					
	Displacement	L(cu.in)	3.758 (229.0)					
	Rated output	kW(HP)/min ⁻¹	110 (148) / 2,200					
DRIVE SYSTEM	Electric system battery	V(V/CCA×Qty)	24V (12V / 950×2)					
	Electric system alternator	V/A	24V / 90A					
	Power transmission type		Hydrostatic					
	Drive wheel		All wheel (drum & tires)					
VIBRATION SYSTEM	Power transmission type		Hydraulic					
	Number of amplitudes		2					
	Vibrator type		Single eccentric shaft					
	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					
	Power transmission type		Hydraulic					
	Articulation / Oscillation angle	±(°)	37 / 9					
	Fuel tank	L(gal)	200 (52.8)					
	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 with English units in parentheses.
- Max. operating weight : Fuel=100%, Operator=75kg
- Operating weight : Fuel=50%, Operator=75kg
- Photos may contain optional equipment and/or attachments.

- Optional equipment
- Tractor tires
- Diamond tread tires
- Smooth or padfoot shell
- Leveling blade
- Cab
- LED strobe
- LED work lights
- Mirrors
- Suspension seat
- Drum scraper (rubber)
- Idle shutdown
- Fire extinguisher