



SV520D

VIBRATORY SINGLE DRUM ROLLER

The innovatively designed SV520 is applicable to medium to large soil compaction jobs.

The SV520 includes new roller features and optimizes job profitability through efficiency.



SV520T

Proven Compactive Performance

- Roller compactive force reaches target density in less number of roller passes.
- Provides higher centrifugal force and amplitude.
- Achieves uniform compaction throughout lift thickness.



SV520DF

Low Operating Costs

- Sakai's new *Eco compaction mode (ECM)*, which reduces fuel consumption up to 20%, while maintaining compactive performance.
- Quality and durable components such as hydraulics, drum, center-pin hitch provide less maintenance.

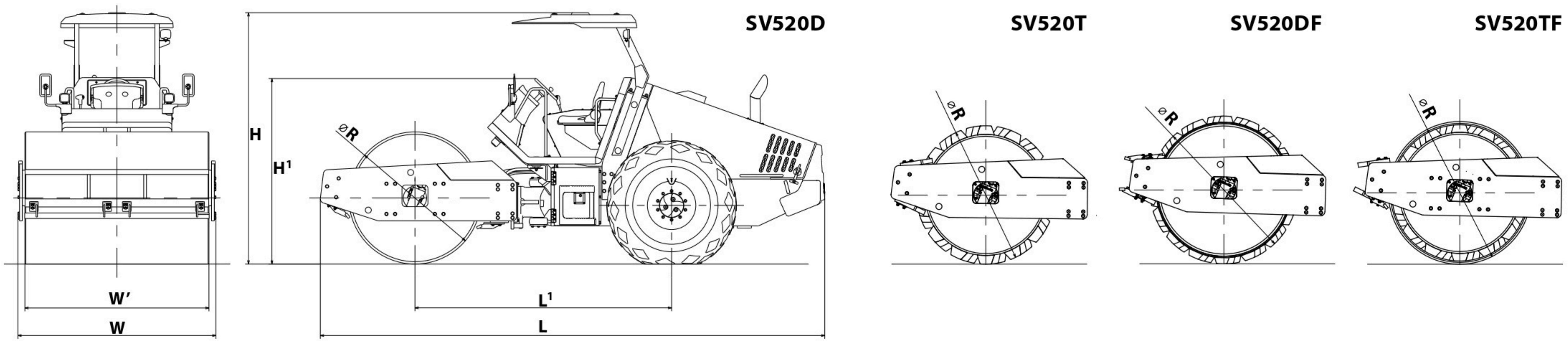


SV520TF

Operator Comfort and Safety

- Includes Sakai's durable dual rubber isolation system between the drum and operator deck.
- Extremely quiet operator station with noise levels as low as 87 dB(A).

SV520 Series



TYPE		Vibratory Single Drum Roller						
MODEL	SV520D	SV520T	SV520DF	SV520TF				
CHASSIS MODEL								
WEIGHTS	Max. operating weight with AWNING	kg (lbs)	10,450 (23,040)	10,790 (23,790)	12,090 (26,655)			
	Operating weight with AWNING	kg (lbs)	10,360 (22,840)	10,700 (23,590)	12,000 (26,460)			
	Load on front axle - operating weight with AWNING	kg (lbs)	5,440 (11,995)	5,820 (12,835)	7,140 (15,745)			
	Load on rear axle - operating weight with AWNING	kg (lbs)	4,920 (10,850)	4,880 (10,760)	4,860 (10,715)			
PERFORMANCE								
Centrifugal force (L / H)	kN(lbs)[kgf]		172 / 255 (38,665 / 57,325) [17,540 / 26,000]					
Frequency (L / H)	Hz (vpm)		33.3 / 28.3 (2,000 / 1,700)					
Amplitude (L / H)	mm (in)	1.02 / 2.09 (0.040 / 0.082)	0.95 / 1.94 (0.037 / 0.076)	0.73 / 1.50 (0.029 / 0.059)	0.62 / 1.27 (0.024 / 0.050)			
Dynamic linear pressure for front drum - operating weight with AWNING (L / H)	N/cm (lbs/in)	1,058 / 1,447 (600 / 825)	—	—	1,180 / 1,569 (670 / 895)			
Number of speed shifts			2					
Speed range (L / H)	km/h (mph)		0-6 / 0-10 (0-3.7 / 0-6.2)					
Gradeability	% (°)	62 (32)	54 (28)	49 (26)				
Turning radius compacted surface (inside / outside)	m (in)		3.5 (138) / 5.6 (221)					
DIMENSIONS								
Overall length L	mm (in)		5,840 (230)					
Overall width W	mm (in)		2,295 (90)					
Overall height (without AWNING) H1	mm (in)	2,190 (86)	2,175 (86)	2,195 (86)	2,180 (86)			
Overall height (with AWNING) H	mm (in)	2,910 (115)	2,925 (115)	2,945 (116)	2,935 (116)			
Wheelbase L1	mm (in)		2,970 (117)					
Compaction width W'	mm (in)		2,130 (84)					
Drum width W' / Drum diameter R	mm (in)	2,130 / 1,530 (84 / 60)	2,130 / 1,600 (84 / 63)	2,130 / 1,708 (84 / 67)	2,130 / 1,650 (84 / 65)			
Pad height	mm (in)	—	100 (4)	75 (3)	100 (4)			
Number of pads	pcs.	—	140	160	140			
Shell thickness	mm (in)	25 (1.0)	22 (0.9)	25 (1.0)	22 (0.9)			
Tire size x Number of tires			23.1 - 26 - 8 PR (OR) x 2					
Inflation (each wheels)	kPa (psi)		137 (19.9)					
Ground clearance	mm (in)	405 (16)	390 (15)	400 (16)				
Curb clearance	mm (in)	500 (20)	520 (20)	555 (22)	535 (21)			
Side clearance	mm (in)		82.5 (3)					
ENGINE								
Make		ISUZU						
Model		4BG1T (EPA Tier2 : equivalent)						
Type		Diesel, water-cooled, 4-cycle, 4-cylinder inline, with turbo charger						
Displacement	L (cu.in)		4.329 (264.2)					
Rated output	kW (HP)/min ⁻¹		83.3 (112) / 2,100					
Electric system battery	V (V / Ah x Qty)		24V (12V / 100 x 2)					
Electric system alternator	V/A		24V / 50A					
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	L (gal)	210 (55.5)						
Hydraulic oil tank	L (gal)	50 (13.2)						

● 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=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.