





SAKAI '

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.

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.

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.

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).



SV520T



SV520DF



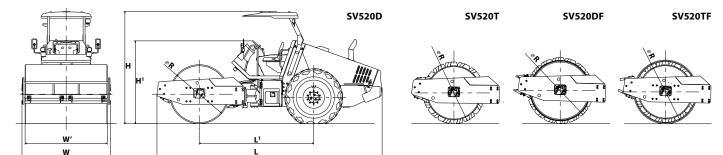
The photos may contain optional equipment and / or attachment.



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www.sakainet.co.jp/english/

SV520 Series



| TYPE | | | | | le Drum Roller | |
|-----------------|--|---|--|--|--|--------------------------------|
| | | | SV520D | SV520T | SV520DF | SV520TF |
| CHASSIS MODEL | | | | 25 | V31 | |
| WEIGHTS | Max. operating weight with AWNING | kg (lbs) | 10,450 (23,040) | 10,790 (23,790) | 12,090 (26,655) | 13,060 (28,795 |
| | Operating weight with AWNING | kg (lbs) | 10,360 (22,840) | 10,700 (23,590) | 12,000 (26,460) | 12,970 (28,595 |
| | Load on front axle - operating weight with AWNING | kg (lbs) | 5,440 (11,995) | 5,820 (12,835) | 7,140 (15,745) | 8,090 (17,840) |
| | Load on rear axle - operating weight with AWNING | kg (lbs) | 4,920 (10,850) | 4,880 (10,760) | 4,860 (10,715) | 4,880 (10,760 |
| 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 | | | |
| | Number of speed shifts | · · <u> </u> | 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) | | | |
| | | | 5,840 (230) | | | |
| | Overall width W | mm (in) | 2,295 (90) | | | |
| | Overall height (without AWNING) H ¹ | | 2,190 (86) | 2,29 | 2,195 (86) | 2,180 (86) |
| | Overall height (with AWNING) H | | 2,910 (86) | 2,925 (115) | 2,195 (86) | 2,180 (86) |
| | | | 2,910 (115) | | | 2,955 (110) |
| | Wheelbase L ¹ | mm (in) | 2,970 (117) 2,130 (84) | | | |
| | Compaction width W' | mm (in) | 0.400 / 4.500 | | | |
| | 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 | 5 (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) | | | |
| | Туре | | 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) | | | |
| | Power transmission type | | Hydraulic | | | |
| SYSTEM | Number of amplitude | | 2 | | | |
| | Vibrator type | · · | Single eccentric shaft | | | |
| BRAKE SYSTEM | ~~~~~ | | Dynamic braking through hydrostatic drive system / FNR lever | | | |
| | Secondary brake (Emergency brake) | | , | 5 5 / | , | |
| | | | Hydrostatic + Spring applied hydraulically released type (SAHR) / Brake pedal SAHR / Panel button | | | |
| STEERING SYSTEM | Parking brake | · · | Hydraulic | | | |
| | Power transmission type | . (0) | 37 / 9 | | | |
| | Articulation / Oscillation angle | ± (°) | | | | |
| FLUID CAPACITY | | L (gal) | 210 (55.5) | | | |
| | Hydraulic oil tank | L (gal) | 50 (13.2) | | | |
| | | All specifications Specified figures | have a tolerance of ±5%. may be changed without ne are in SI Units, followed by tl neasurement in parentheses | otice. Operative of the provident in the | operating weight : Fuel=100%, ating weight : Fuel=50%, water hotos may contain optional eq | =50%, operator=75 kg |

* Using low quality fuel may cause engine failure.

