VIBRATORY SINGLE DRUM ROLLER

20 ton class and Optimum choice for large scale project and thick lift compaction.

Typical application: Construction of national highway, airport, dam, etc.
Drum variations: Standard, Circular vibration mode: D and T types
Vertical vibration mode*: DV and TV types

Superb Compaction Performance
- Enable to double the lift thickness from 30 cm to 60–90 cm.
- Enable to obtain the uniform density throughout the layer.
- DV or TV drum assures the high density in the deeper area due to the higher amplitude settings.

Excellent Trafficability due to Traction Control System
- The manual ON/OFF Traction Control System is a standard equipment.
  This system assures the roller can easily drive through rough surface or slope.
- Heavy vibratory roller has a tendency to have difficulty of driving in straight line.
  The DV and TV types provide straight-line driving despite the powerful vibration.

Durable Components and Easy Access to the Service Points
- Less cost of operation and maintenance thanks to the heavy duty and durable components like center-pin hitch.
- The fully open engine hood as well as steps over tires gives an easy access to the major service points such as engine, radiator, hydraulic pumps, etc.

Operator Comfort and Safety
- Despite the powerful vibration, the chassis and operator deck are fully protected from vibration due to Sakai’s unique rubber isolator mounting system. This also prolongs the interval of the related parts replacement.
- ROPS-Cabin with air conditioner and adjustable suspension (Deluxe) seat are standard.
- Rotating seat (R:10° L:20°) provides easy access in and out of the seat.
- Sakai’s exclusive pedal brake further assures emergency stop in a panic situation.

(*) : Vertical vibration mode: Vibration is purely produced in vertical directions only.

If you need any technical or service parts support on our products, please contact this web page.
www.sakainet.co.jp/english/
### SV900-1 Series

#### Type
- **Model**: Vibratory Single Drum Roller

#### Chassis Model
- **Max. operating weight with ROPS-Cab**: 19,525 kg (43,045 lbs)
- **Operating weight with ROPS-Cab**: 19,350 kg (42,660 lbs)
- **Load on front axle - operating weight with ROPS-Cab**: 10,950 kg (24,140 lbs)
- **Load on rear axle - operating weight with ROPS-Cab**: 8,400 kg (18,520 lbs)

#### Weights
- **Max. operating weight with ROPS-Cab**:
  - kg (lbs): 19,525 (43,045)
- **Operating weight with ROPS-Cab**:
  - kg (lbs): 19,350 (42,660)
- **Load on front axle - operating weight with ROPS-Cab**:
  - kg (lbs): 10,950 (24,140)
- **Load on rear axle - operating weight with ROPS-Cab**:
  - kg (lbs): 8,400 (18,520)

#### Performance
- **Centrifugal force (L/H)**:
  - kN (lbs): 245 / 343 (55,080 / 77,110)
- **Frequency (L/H)**:
  - Hz: 33 / 28 (1,980 / 1,680)
- **Amplitude (L/H)**:
  - mm (in): 1.00 / 1.90 (0.039 / 0.075)
- **Dynamic linear pressure for front drum**:
  - kg (lbs): 1,654 / 2,114 (945 / 1,205)
- **Number of speed shifts**: 3
- **Speed range (1 / 2 / 3)**:
  - km/h (mph): 0–4 / 0–5 / 0–11 (0–2.5 / 0–3.1 / 0–6.8)
- **Gradeability % (°)**: 58 (30)
- **Turning radius compacted surface (inside / outside)**:
  - m (in): 3.8 / 6.0 (150 / 237)

#### Dimensions
- **Overall length L**: 6,555 mm (258 in)
- **Overall width W**: 2,320 mm (91 in)
- **Overall height (without ROPS-Cab) H**: 2,520 mm (99 in)
- **Overall height (with ROPS-Cab)**:
  - kg (lbs): 3,060 (120)
- **Wheelbase L’**: 3,230 mm (127 in)
- **Compaction width W’**: 2,130 mm (84 in)
- **Drum width W’ / Drum diameter R**: 2,130 / 1,600 (84 / 63)
- **Pad height**: 115 mm (4.5 in)
- **Number of pads**: 140 pcs.
- **Shell thickness**: 40 mm (1.6 in)
- **Tire size × Number of tires**: 23.5-25-16 PR (OR) × 2
- **Inflation (each wheels)**: 319 (46.0 kPa / psi)
- **Ground clearance**: 435 mm (17.1 in)
- **Curb clearance**: 500 mm (19.7 in)
- **Side clearance**: 95 mm (3.7 in)

#### Engine
- **Make**: ISUZU
- **Model**: AH-4HK1XYLB-01 (EPA-Tier 3 : equivalent)
- **Type**: Diesel, water cooled, 4 cycle, 4 cylinder, with turbo charger
- **Displacement**: 5.193 L (316.9 cu.in)
- **Rated output kW (HP)/min-1**: 137.5 (184) / 2,100
- **Electronic system battery V (A/h) × Qty**: 24 V / 50 A × 2
- **Electric system alternator V/A**: 24 / 50 A

#### Drive System
- **Power transmission type**: Hydrostatic
- **Drive wheel**: All wheel (drum & tires)

#### Vibration System
- **Power transmission type**: Hydrostatic
- **Number of amplitude**: 2
- **Vibrator type**: Single eccentric shaft
- **Articulation / Oscillation angle ± (°)**: 37 / 6.5

#### Brake System
- **Service brake**: Dynamic braking through hydrostatic drive system / FNR lever
- **Secondary brake (Emergency brake)**:
  - Dynamic braking through hydrostatical released type (SAHR) / Brake pedal
- **Parking brake**: SAHR / Panel button

#### Steering System
- **Power transmission type**: Hydrostatic
- **Articulation / Oscillation angle ± (°)**: 37 / 6.5

#### Fluid Capacity
- **Fuel tank L (gal)**: 410 (108.3)
- **Hydraulic oil tank L (gal)**: 74 (19.5)

### Note
- 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.

### Standard Equipment:
- ROPS-Cab
- Instrument panel
- Gauges
- Backup alarm
- Horn
- Working lights
- Turn signal lamp
- Mirrors
- Scrapers for both directions
- Air conditioner
- Deluxe seat
- 4 points lifting
- Vandalism protections

### Optional Equipment:
- Rotary beacon
- Pass counter
- Auxiliary step

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