SPECIFICATION SHEET · VS SERIES (VIBRATION SYSTEM)

VS-18 Vibration System

Standalone six-degree-of-freedom repetitive shock vibration system with a 36 × 78 in table, ready to run in its sound enclosure. The same table as the VTC-18 HALT/HASS chamber. Designed, built and supported in Allegan, Michigan.

†Photo shows the VS-16.

36 × 78 in	10–10,000 Hz	100 GRMS	500 lb	240 SCFM
vibration table	6-DoF repetitive shock	maximum vibration level	maximum load	compressed air

VIBRATION

Vibration	Tri-axial 6-DoF repetitive shock, non-coherent broadband, 10–10,000 Hz
Vibration level	Up to 100 GRMS, unloaded table at 25–30 °C
Energy distribution	90% of vibration energy in 10–4,000 Hz
Repeatability	±1 GRMS within one minute of settling
Vibration table	36 × 78 in (914 × 1,981 mm), ceramic-coated and insulated from its base
Mounting inserts	Stainless steel 3/8-16 or M10 over the full table surface, no restricted areas
Maximum load	500 lb (227 kg)
Vibrators	Ten medium and eight large pneumatic vibrators, LubeMist™ lubricated with an adjustable ball valve and precision air regulator on each; SoftStart™ to minimize starting shock
Accelerometer	One Dytran 3030B5 with cable and three-axis mounting block

ENCLOSURE

Exterior (W × D × H)	42 × 84 × 32 in (1,067 × 2,134 × 813 mm), nominal
Construction	Insulated panels and floor with an acoustic lining; removable wall for service access

UTILITIES

Electrical	110–220 V AC, single phase, 15 A outlet
Compressed air	1.25 in NPT supply, 120 psig (8.3 bar), 240 SCFM, clean and dry
Installation	Unloading, rigging and utility connections are provided by the customer

CONTROL AND INSTRUMENTATION

Control	Watlow controller with Hanse ChamberCore software, supplied with the system: programmable vibration ramps, GRMS level and test duration; can be synchronized with a chamber's temperature controller
GRMS control	From one accelerometer or the average of several, written straight to the Watlow controller for closed-loop control
ChamberFFT (option)	Vibration analysis on up to 16 IEPE accelerometer channels at 25,600 samples per second

SAFETY

Interlock connection	Shuts down vibration
Emergency power off	EPO shuts off system operation

OPTIONS

- **More accelerometer channels** — in groups of four, up to sixteen, with ChamberFFT.
- **More accelerometers** — Dytran 3030B5 with cable, and three-axis mounting blocks.
- **Thermocouple inputs** — 14 more product thermocouples, for 16 monitored and logged in ChamberCore.
- **Fixtures** — designed for your product, Metric or English layout.
- **Enclosure top** — manual or automatic opening, with ports or view windows.
- **Chamber integration** — the same table built into a VTC chamber, or supplied as a VK kit for a chamber you own.

WARRANTY AND SUPPORT

- **3-year warranty** on vibrators and vibration tables.
- **1-year equipment warranty** from shipment: parts and labor for the first 90 days, then parts at no cost other than travel.
- **Supported for the long term** — including controller retrofits for older systems.
- **Built in Allegan, Michigan** — designed, fabricated and supported in the US since 1993.

Specifications are subject to change without notice. Any Hanse system can be modified to fit your requirements.

Request a quote at hanseenv.com/contact-hanse-environmental · Tel 1-269-673-8638 · hanseenv.com/vibration-systems/vs-18 · Revised October 10, 2026