

QRS-300E Specification

Tri-axial Quasi-Random Vibration Table

System originally manufactured by Screening Systems Inc.

Excitation	Patented tri-axial quasi-random vibration excites all axes of motion simultaneously	Electrical services	230 VAC, 2A, 50 Hz
Actuation	Sixteen pneumatic, impulse-type actuators	Compressed air services	180 SCFM/270m ³ /hr at 90 psi/6 bar (3/4" NPT fitting)
Vibration	Six degrees of freedom, continuous broadband spectrum	Dimensions	Vibration System 32.5 (H) x 54 (W) x 54 (D) in 826 (H) x 1370 (W) x 1370 (D) mm
Control	Digital flow valve, controlled by RVP-100 microprocessor controller with menu-driven programming and operation.		700 lb/320 Kg Vibration Console 62 (H) x 25 (W) x 30.5 (D) in 1575 (H) x 635 (W) x 775(D) mm Door open (D): 49 in/125 mm
Vibration Range	2 - 10 GRMS with 600 lb/132 Kg load including fixture 20 GRMS maximum, loads up to 100 lb/45 Kg 30 GRMS maximum unloaded table Bandwidth 25 Hz to 2000 Hz		300 lb/136 Kg Vibration Controller RVP-100 closed-loop microprocessor system Menu-driven programming and operation Automatic, manual and calibration modes Integrated spectrum analyzer and average functions. Stores five profiles, each with five segments. High-resolution LCD Alphanumeric menus Graphic frequency spectra (GRMS or G ² Hz)
Mounting Surface	44 in x 44 in/1117 mm x 1117mm M10 threaded inserts on 3 in/76.2 mm centres		
Spectral Density	Average acceleration spectral density flat within ± 6 dB in 1/3 octave bands		
Maximum load	600 lbs/272 Kg including fixture		
System safety	Emergency power-off circuitry Redundant over-stress protection.	Control sensors	Six accelerometers mounted in two tri-axial blocks on the table surface
		Additional safety features	Hierarchical security key-lock Self-test capability Vibration limit protection