



Chapter 1: Technical Parameters for Wewon Vibration Testing System EV210H0808VCSusb-E

01.	Application: The vibration test is to inspire or impact a part or device to see how it reacts in a real environment. The application of vibration test is very extensive, from the circuit board, aircraft, ships, rockets, missiles, automobiles and household appliances and other industrial products.			
02.	Product Name: Electromagnetic Vibration Testing Machine Model: EV210H0808VCSusb-E2			
03.	Electromagnetic Vibration Generator Parameters VG1000-50:			
04.	Maximum Sine Excitation Force:		1000Kg.f	
05.	Maximum Random Excitation Force:		1000Kg.f	
06.	Maximum Impact Excitation Force:		2000Kg.f	
07.	Frequency Range:		1 ~ 3000 Hz	
08.	Maximum Displacement:		51 mm	
09.	Maximum Speed:		2m / s	
10.	Maximum Acceleration:		100G (980 m / s ²)	
11.	Maximum load (Sine) F=M.A			
12.	5G (50 m/s ²)	10G (100 m/s ²)	20G (200 m/s ²)	30G (300 m/s ²)
13.	190kg	90kg	40kg	23kg
14.	First Order Resonant Frequency:		3200 Hz ± 5%	
15.	Effective Load: (Wewon Copyright)		300 kg	
16.	Vibration Isolation Frequency:		2.5 Hz	
17.	Moving Coil Diameter:		Ø 240 mm	

18.	Dynamic Mass:	10 kg
19.	Table Screws:	17 × M10
20.	Magnetic Flux Leakage:	<10 gauss
21.	Allowable Eccentricity Torque:	300N.m
22.	Equipment Size:	845mm × 790mm × 840mm (Not Include Extension Table)
23.	Equipment Weight:	1100 Kgs (Not Include Horizontal Slide)
24.	Digital Switching Power Amplifier SA-12K	
25.	Output Power:	12KVA
26.	Output Voltage:	100V
27.	Output Current:	100A
28.	Amplifier Efficiency:	≥ 90%
29.	Switching Frequency:	116KHz
30.	Signal to Noise Ratio:	≥ 65dB
31.	Noise: (Wewon Environmental Chambers Co., Ltd. Copyright)	≤ 70dB
32.	Amplifier Size:	720mm × 550mm × 1700mm
33.	Servo Protection System:	
34.	Function: Temperature, wind pressure, over displacement, overvoltage, overcurrent, input undervoltage, external fault, control power supply, logic fault, input phase.	
35.	Digital Vibration Controller VSSusb-E	
36.	Hardware Configuration:	2 channel input, 1 output channel, Sine, random, typical impact
37.	Control System (Computer)	17 "LCD monitor, keyboard / optical mouse, Intel
38.	Software Description:	English Operation, can be time domain and frequency domain analysis, signal source, sine sweep frequency analysis. Can automatically generate WORD test report, signal and data display, storage, set the test parameters and analysis functions.
39.	Operating System: (Wewon Copyright)	Windows 2000 / XP / Win7
40.	Acceleration Sensor: B & W	frequency Range: 1-12000Hz
		Sensitivity: 50mv / g
		Temperature Range: -24 - 250 ° C
41.	Vertical Expansion Table VT660:	
42.	Material:	Magnesium aluminum alloy, Surface hard anodized
43.	S.size:	600mm × 600mm
44.	Fixed Hole:	M8 stainless steel screw sets, durable wear
45.	Frequency Used:	Sine, 700 Hz; Random: 1000Hz
46.	Weight:	35 Kg
47.	Horizontal Oil Film Slide H0707	
48.	Material:	Aluminum-magnesium alloy, surface hard anodized
49.	Size:	700mm × 700mm × 38mm
50.	Fixed Hole:	M8 stainless steel screw sets, durable wear, The holes are distributed in 100 * 100mm rectangles
51.	Frequency Used:	Sine, 2000 Hz,
52.	Weight:	45 Kg
53.	Cooling Fan (with silencer) BL-1000	
54.	Fan Power:	4KW
55.	Flow Rate:	22m3 / Min
56.	Electrical Requirement	
57.	Power Supply:	AC 3 Phase 380V / 50Hz, 25 KVA
58.	Compressed Air:	0.6 Mpa

59. Grounding Resistance:	$\leq 4 \Omega$
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Chapter 2: Fully Introduction to Equipment's Performance: Wewon's Vibration Testing System

Electromagnetic Vibration Main Body, VG1000-50:	(Wewon) Movable Coil:	Shaking table with casting and manual processing of the moving coil, photoelectric pneumatic load support system and dual bearing axial guidance. The dual bearing orientation is a unique feature that helps to reduce axial dynamic cross and rotation during vibration testing, with superior durability.
	Magnet Exciting Coil:	Using dual magnetic circuit structure, low magnetic flux leakage, magnetic field uniform
	Vibration Body's Surface:	The use of advanced phosphating treatment and automotive paint technology, with long-term anti-wear anti-rust effect.
	Vibration Body's Cooling/ Refrigeration	The use of low-noise fan, to improve the body into the wind structure, excitation coil using honeycomb duct, the magnetic ring with double diversion duct, using a new duct design, enhance the cooling effect.
Digital Switching Power Amplifier SA-12K	SA Series digital switching power amplifiers use reliable MOSFET or IGBT technology	A. High stability and reliability
		B. Meet the EU "CE" standard requirements
		C. Using sinusoidal pulse width modulation technology, power amplifier signal to noise ratio is high.
		D. The use of switching power supply works, high conversion efficiency.
		E. The use of electronic automatic current sharing technology
		F. Good safety performance.
Servo Protection System: (Wewon Copyright)		Protection function is complete, with power grid overvoltage, undervoltage,