PERMANENT MAGNET SHAKER

DYN-PM-440

DynaLabs

DynaLabs permanent magnet shakers create motion by magnets and coils pushing and pulling each other, similar to the technology used in loudspeakers.

Permanent magnet shakers create motion by a pair of magnets and coils pushing and pulling each other. In fact, the technology inside is not different from that in loudspeakers and they are also called voice coils.

PM-250 and PM-440 shakers are compatible with external amplifiers (SA-400 or SA-500). The shaker set for 250N and 440N includes a blower. Our largest shaker, the PM-440, has a maximum payload capacity of 2.5 kg with a frequency range of 0-5 kHz.

Advantages

- Lightweight, durable portable and easy to use
- Adjustable trunnion base provides high degree of flexibility
- Broad frequency range
- External amplifier option (SA-400 or SA-500)

Application Areas

- Vibration testing of micro parts, assemblies, and electronics
- Sensor calibration
- Modal testing
- Shock testing
- Fatigue and resonance testing
- Velocity transducer or high-speed actuator
- Mechanical impedance measurement
- Education and research

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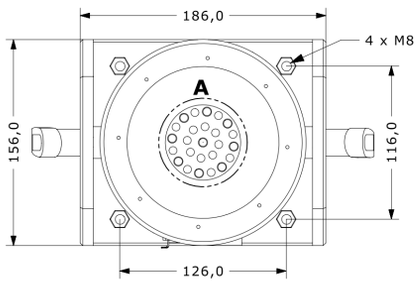
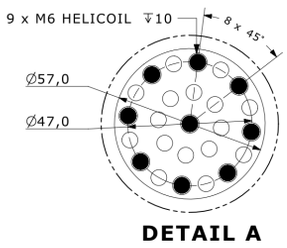
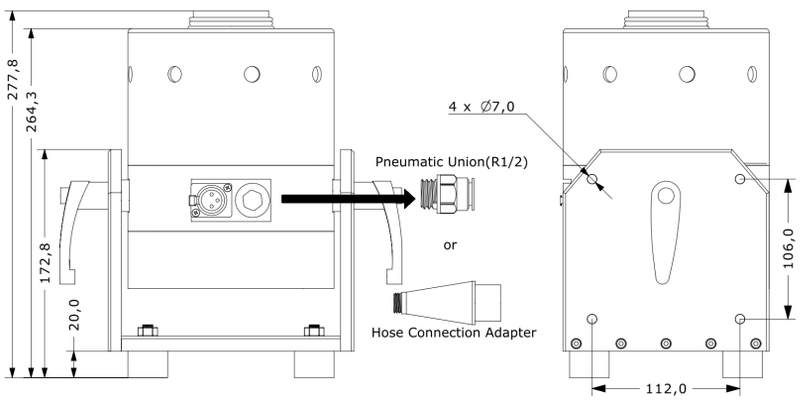
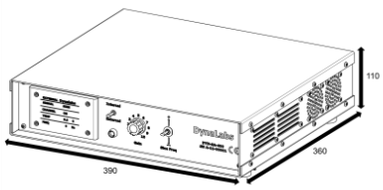
DYN-PM-440

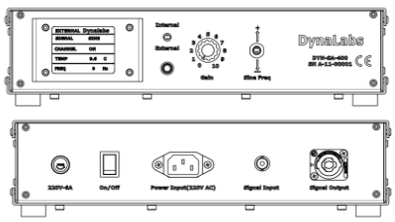




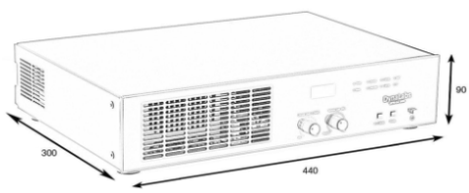


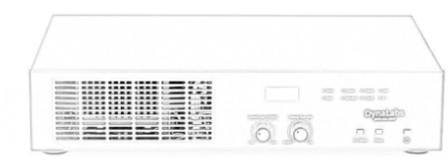
SA-400 (CLASS D AMPLIFIER)





SA-500 (LINEAR POWER AMPLIFIER)





Output Force (Sinus)	Frequency Range	Max Payload (Vertical)	Displacement (P-P)	Maximum Acceleration	Shaker Weight	Cooling System
440 N	0-5 kHz	2.5 kg	25 mm	100 g	11.8 kg	Forced Convection

Armature Weight	Operating Tem. Range	Suspension	Maximum Input Current	AMPLIFIER	Max Velocity	External Signal Voltage Level
448.5 gr	5-35 °C	Carbon Fiber	10A (RMS)	External (SA-400/ SA-500)	1.6 m/s	10 VAC (SA-400) 3.5 VAC (SA-500)

Optional	SA-400 (CLASS D AMPLIFIER)	SA-500 (LINEAR POWER AMPLIFIER)
Constant Power	400 W	500 W
Frequency Range	0-15 kHz	DC... 60 kHz
Supply Voltage	110/220 VAC	110/230V +-5%
Amplifier Weight	4.7 kg	11.5 kg
Dimensions	360 x 390 x 110 mm	300 x 440 x 90 mm

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