

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



DYNALABS MUHENDISLIK LTD STI
Ostim OSB Mah. 100 Yıl Bulvarı Ostim
No:55B/11 Yenimahalle 06374 Ankara
TURKEY

Phone: +90 312 386 21 89

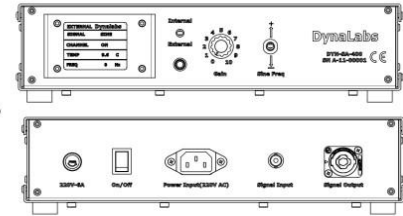
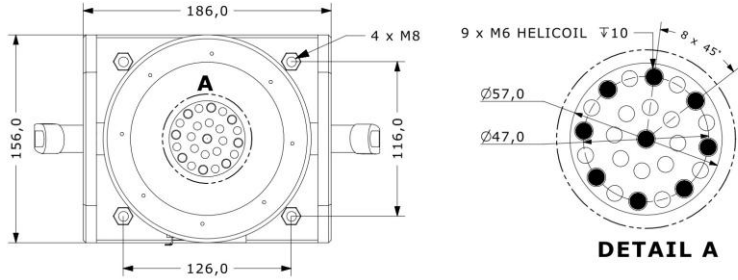
Mail: dynalabs@dynalabs.com.tr

Web: www.dynalabs.com.tr

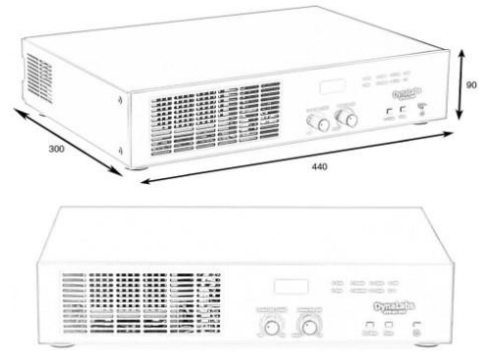
DynaLabs PERMANENT MAGNET SHAKER

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 Temp. 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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