

# PERMANENT PERMANENT MAGNET SHAKER

## DYN-PM-440

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



# DynaLabs

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

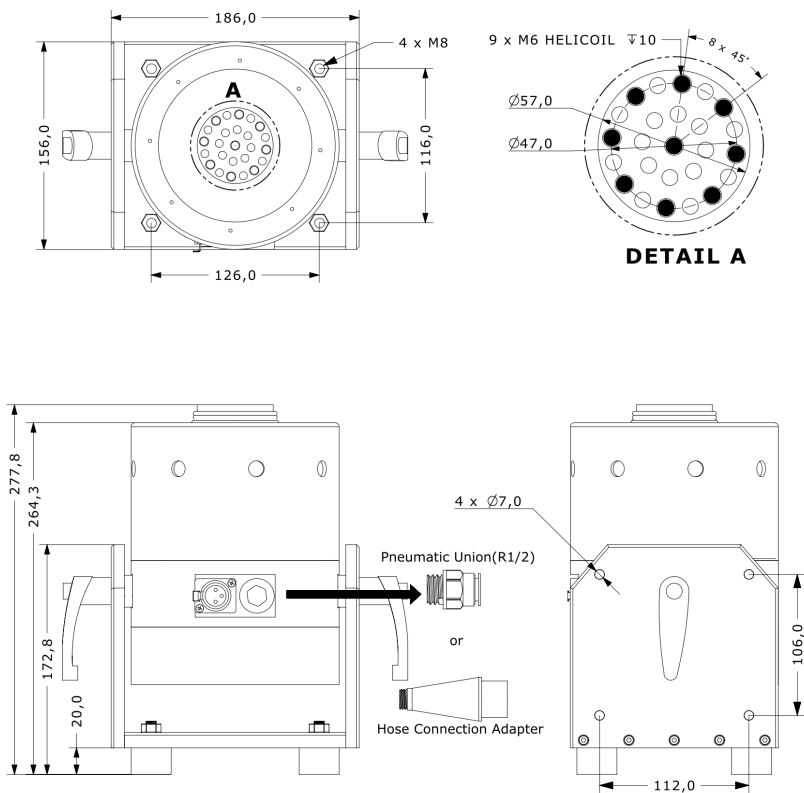
Mail: [dynalabs@dynalabs.com.tr](mailto:dynalabs@dynalabs.com.tr)

Web: [www.dynalabs.com.tr](http://www.dynalabs.com.tr)

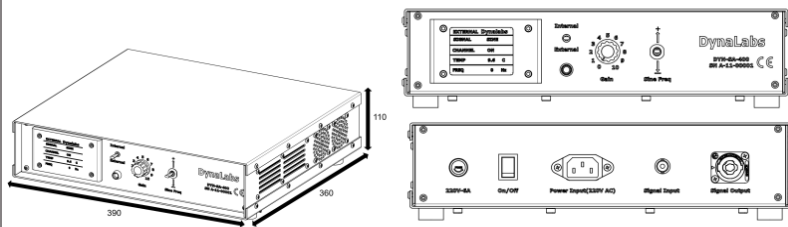
# DynaLabs

## PERMANENT MAGNET SHAKER

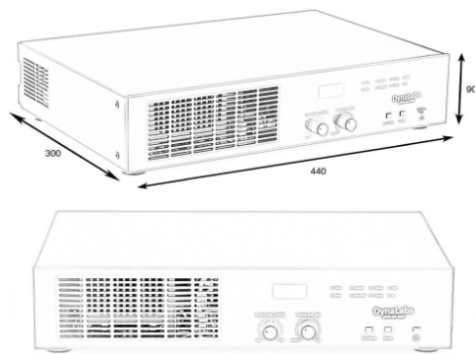
### DYN-PM-440



#### 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 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 (Peak)

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



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](mailto:dynalabs@dynalabs.com.tr)

Web: [www.dynalabs.com.tr](http://www.dynalabs.com.tr)