MODAL SHAKER

DYN-MS-440

DynaLabs

Modal shakers are used in modal testing to excite a structure under test to measure its dynamic characteristics. It is designed specifically for modal analysis and helps identify the modal parameters of the structure, such as natural frequency, damping, and mode shape.

Both modal shakers and impulse hammers can be used in modal testing to excite the structures, but modal shakers have some advantages against impulse hammers such as cleaner and more accurate measurement data, the ability to test inaccessible points, and the capability to distinguish highly coupled modes. Modal shaker testing is also preferred for less noisy and more accurate results in many industrial applications.

DynaLabs shakers such as 250N and 440N can optionally operate with SA-400 or SA-500 amplifiers. The shaker set includes a stinger set and blower. It is extremely easy to use and practical.

Advantages

- Lightweight, durable, portable and easy to use
- Modal stinger can be easily adjusted by the through-hole armature
- Adjustable trunnion base provides high flexibility
- Up to 25mm stroke and broad frequency range

Application Areas

- Modal analysis of structures
- Civil engineering
- Aircraft and constructions
- Aerospace testing
- Automotive testing
- Research and development

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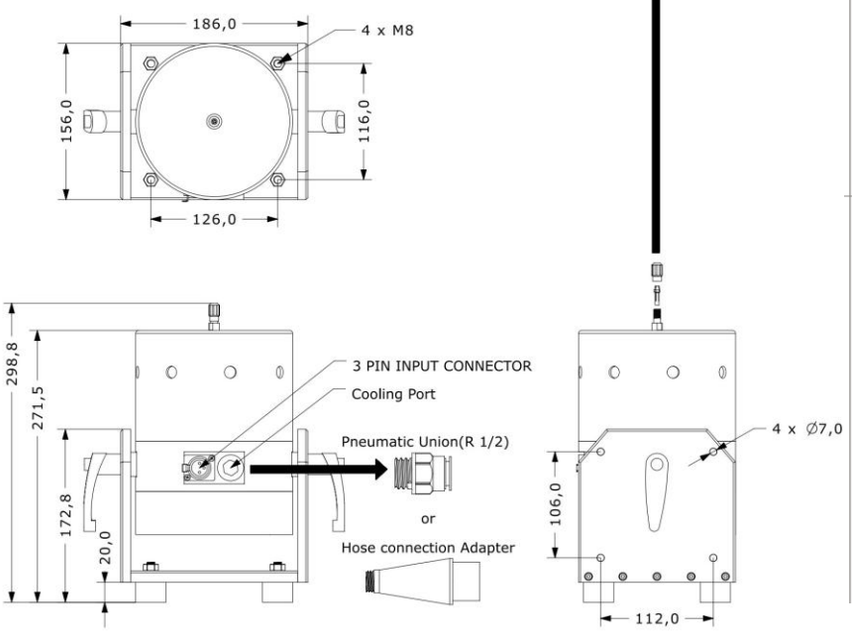
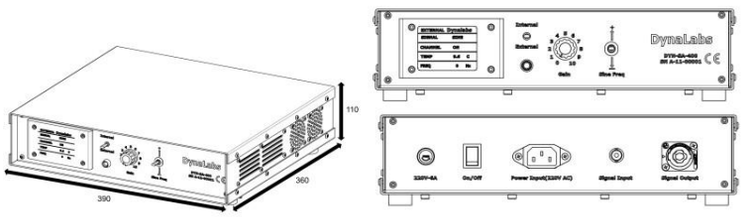
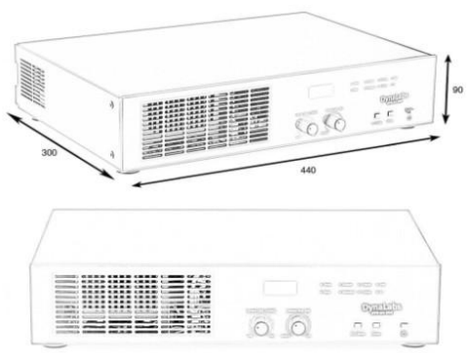
DynaLabs
MODAL SHAKER
DYN-MS-440



SA-400 (CLASS D AMPLIFIER)



SA-500 (LINEAR POWER AMPLIFIER)



Output Force (Sinus)	Frequency Range	Displacement (P-P)	Maximum Acceleration	Shaker Weight	Cooling System
440 N	0-5 kHz	20 mm	100 g	11.8 kg	Forced Convection

Max Velocity	Operating Temp. Range	Suspension	Maximum Input Current	Amplifier	External Signal Voltage Level
1.6 m/s	5-35 °C	Carbon Fiber	10A (RMS)	External (SA-400/ SA-500)	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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