

# ET-126B *Electrodynamic Transducer*

## GENERAL DESCRIPTION

The Labworks ET-126B Electrodynamic Transducer is a portable shaker that is ideally suited for all types of general vibration testing. Its small size and weight make it ideal for use in research and modal testing.

The shaker has a large 2.125 inch diameter table with multiple attachment points and up to 25 pounds force capability. The 0.75 inch stroke of the ET-126B, usually available only in larger shakers, facilitates modal testing of resonant structures. These features ease fixture requirements in production and unique test applications.

The rugged, damped dual flexure armature suspension system offers high axial compliance and lateral stiffness. This design allows testing of unsupported loads with minimal suspension related noise problems.



- 25 POUNDS PEAK SINE FORCE
- 0.75 INCH STROKE
- 2.125 INCH DIAMETER TABLE
- 125g ACCELERATION, BARE TABLE
- TRUNNION BASE

**L**abworks Inc.

2950 airway ave. a-16  
costa mesa, ca 92626  
tel: (714) 549-1981  
fax: (714) 549-8041

[info@labworks-inc.com](mailto:info@labworks-inc.com)

[www.labworks-inc.com](http://www.labworks-inc.com)



# STANDARD FEATURES

- AIR COOLED
- PERMANENT MAGNET FIELD
- HIGH LATERAL STIFFNESS  
ARMATURE SUSPENSION
- TRUNNION BASE



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## ET-126B SPECIFICATIONS<sup>1</sup>

### PERFORMANCE

Sine force	
Natural cooling	13 lbf pk
With blower	25 lbf pk
Random force	
Natural cooling	8 lbf rms
With blower	17.5 lbf rms
Shock force	
	53 lbf pk, 50 msec
Max displacement	
Continuous pk-pk	0.75 in
Between stops	0.75 in
Maximum velocity	
	120 ips pk
Acceleration <sup>1,2</sup>	
Bare table	125 g pk
0.5 lb load	36 g pk
2 lb load	11 g pk
Maximum acceleration	
Resonant	150 g pk
Peak shock	175 g pk

<sup>1</sup> Please see systems ratings for additional specifications.

<sup>2</sup> Load dependent.

Specifications subject to change. Consult factory for latest specifications.

### PHYSICAL

Armature weight	0.2 lb
Suspension stiffness	15 lb/in
Rated armature current	
Natural cooling	9 A rms
With blower	17 A rms
Frequency range <sup>2</sup>	
	DC-8,500 Hz
Fundamental resonance <sup>2</sup>	
	6,000-8,000 Hz
Stray magnetic field	
Measured 1.0" above table	<15 gauss
Measured 0.5" from body	<15 gauss
Cooling	
	80 CFM @ 22 inch H <sub>2</sub> O
Dimensions	
	6.5" H x 4.8" W x 4.25" D
Shaker weight	
	11 lbs

### OPTIONS

- Cooling blower: Required for operation above 13 lbf. pk.  
Recommended for continuous operation above 10 lbf. pk.
- Vibration isolation mounts.
- Modal stinger kit.

