

Magnesium Fixtures

Designed for Accuracy & Stability

Automotive & Aerospace:

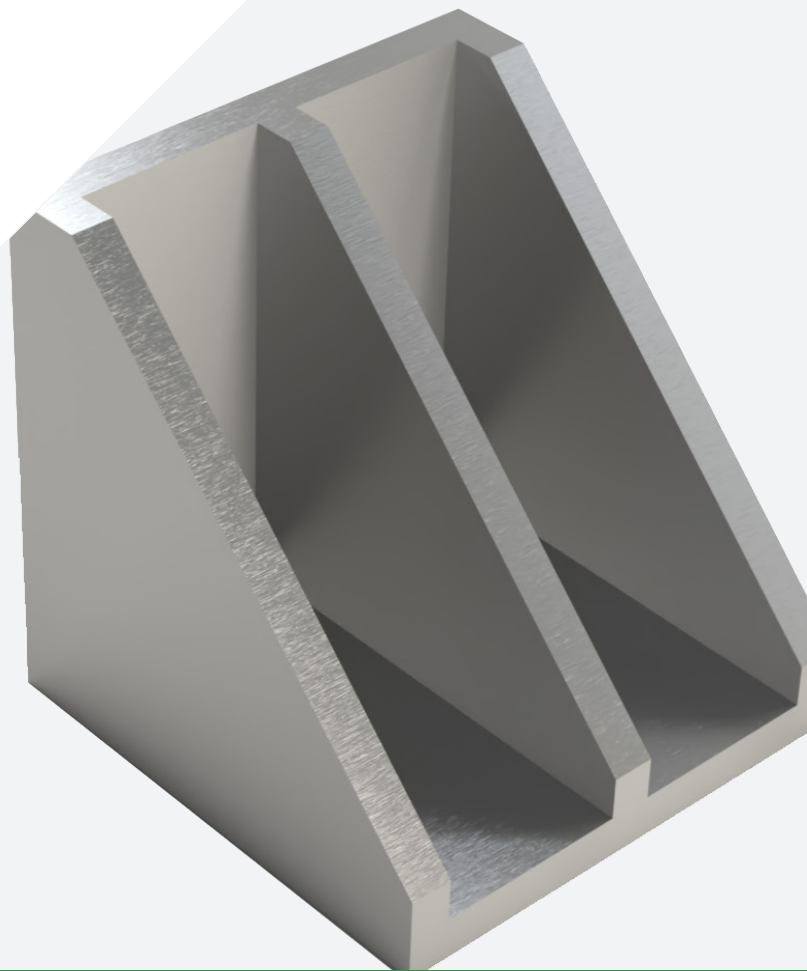
Resonance-free testing for mounts, avionics, and battery packs.

Defense & Military:

Shock and vibration testing for mission-critical systems.

Industrial & Electronics:

Accurate testing free from fixture-induced errors.



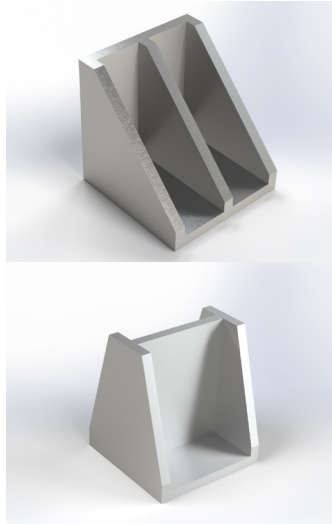
eMpulse
test systems

Magnesium Fixtures - Longitude and Transverse

Our magnesium Longitudinal & Transverse (L&T) weldments enable true three-axis vibration testing on vertical shakers—no rotation to horizontal required. They also support vertical-axis testing on slip tables without reorientation, reducing handling and setup time.

By eliminating alignment for axis changes, the L&T design saves labor and operational costs. Custom mounting patterns are available for compatibility with most shaker and slip table setups.

L TYPE MAGNESIUM FIXTURES	
PART NO.	WORKING AREA
6310	10" W x 10" H
6312	12" W x 12" H
6314	14" W x 14" H
6316	16" W x 16" H
6318	18" W x 16" H
6320	20" W x 16" H
6322	22" W x 16" H
6324	24" W x 16" H



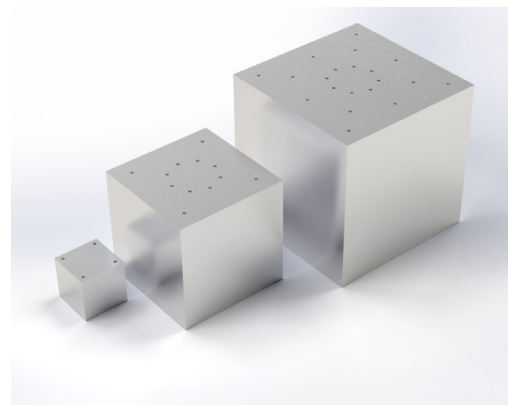
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6424	24" W x 16" H

Magnesium Cubes

Engineered for precision and efficiency, our solid magnesium cubes feature five mounting surfaces—four sides and the top—for maximum throughput in three-axis testing. Their high-strength construction ensures dynamic integrity for demanding profiles.

Custom mounting hole patterns are available to fit virtually any shaker or slip plate configuration.

6200 SERIES MAGNESIUM CUBES		
PART NO.	WORKING AREA	APPROX WEIGHT
6206	6" x 6" x 6"	14 lbs.
6208	8" x 8" x 8"	33 lbs.
6210	10"	65 lbs.
6212	12"	112 lbs.
6214	14"	178 lbs.
6216	16"	266 lbs.
6218	18"	379 lbs.
6220	20"	520 lbs.



Solutions

Head Expanders & Plates

Magnesium components for horizontal or vertical testing—universal mounting with structural integrity.

Slip Tables & Guidance

Stable horizontal interfaces with cross-axis restraint for precise motion and shaker protection.

Custom Solutions

Beyond our standard fixtures, eMpulse offers a full suite of vibration accessories and custom solutions—engineered to eliminate unintended resonances and ensure clean, repeatable results. For unique testing scenarios, our custom-designed fixtures are tailored to specific parameters and optimized through in-house capabilities, including FEA. All solutions are built to meet the exacting demands of your testing environment while streamlining setup and maximizing performance.

Advantages of eMpulse Vibration Fixtures

Resonance-Free Design for Accurate Test Results

Engineered to eliminate unwanted frequencies and fixture flex.

Custom and Standard Solutions

From off-the-shelf designs to fully customized fixtures, we meet the exact needs of your testing requirements.

Built for Mission Critical Testing

Supporting automotive, aerospace, defense, and industrial applications where reliability is essential.

Optimized Material Selection

Using aluminum, magnesium, and high-dampening alloys to minimize fixture influence on test articles.

Advanced Coating and Surface Treatments

We offer specialized coatings to enhance fixture durability and performance under extreme conditions, including anodizing for corrosion resistance, thermal barriers for temperature stability, and vibration-dampening treatments to minimize energy transfer.

Contact

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