

# NOISE AND VIBRATION CONTROL FOR DEFENSE APPLICATIONS

The effects of noise and vibration can be damaging to your vehicles and aircraft. Resonance response-related high-cycle fatigue creates cracking, damage, and premature wear. Often these are safety and system readiness issues. Additionally, the impact of noise and vibration on crew fatigue and human health can't be overstated. DTI's solutions can be trusted to protect your critical assets against the harmful effects of noise and vibration.

For over 30 years, the DTI team has created industry-leading passive damping solutions to protect defense systems and personnel from the harmful effects of noise and vibration. Our globally-recognized technical expertise, custom solutions, and our ability to problem-solve the most demanding applications, sets us apart.



NOISE + VIBRATION CONTROL SOLUTIONS

## EXCESSIVE VIBRATION CAN LEAD TO STRUCTURAL DAMAGE AND PREMATURE WEAR.

The DTI team of engineers can create solutions for rotorcraft, aircraft, submarines, ground vehicles, tanks, ships, and more, preventing premature structural failure caused by damaging vibration energy or noise.

Due to high vibration exposure levels and long vehicle lives, military electronics are often especially susceptible to in-field failure. DTI's application-specific solutions for vibration control protect structural integrity and prolong the life of war-fighting systems, along with their vital components and instrumentation.



## DTI OFFERINGS

Our solutions have the track record to back them up. The DTI team engineers a solution by collaboratively engaging on your specific noise or vibration issue. The solutions we create are lightweight, durable, and suitable for heavy-duty use over the life of the asset. We optimize our solutions using our deep knowledge, experience and analytic tools:

- Stand-Off Damping Systems
- Constrained Layer Damping Systems
- Damping Links
- Tuned Vibration Absorbers
- Tuned Mass Dampers
- De-Coupled Mass Acoustic Barriers
- Isolation System Design



## HIGH PERFORMING SOLUTIONS

*We don't create a one-size-fits-all fix.*

DTI provides comprehensive solutions offering superior noise and vibration reduction in your military asset. Our offerings start with world-class engineering customized, designed, and manufactured for your specific noise and vibration issue.

### THE DTI DIFFERENCE IS CLEAR



**LIGHTEST WEIGHT SOLUTIONS IN THE INDUSTRY**



**EASY TO INSTALL**



**DURABLE TECHNOLOGY NO MAINTENANCE OR SERVICE COSTS**



**COST-EFFECTIVE OPTIMIZED SOLUTIONS**

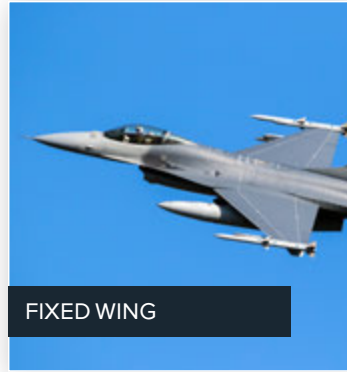


**ZERO OPERATING COSTS**

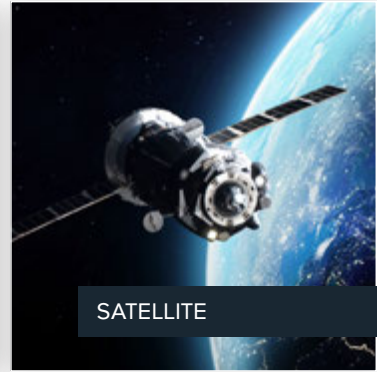


**MINIMAL SPACE REQUIREMENTS**

## DEFENSE APPLICATIONS



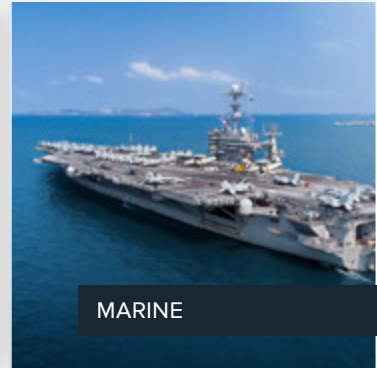
FIXED WING



SATELLITE



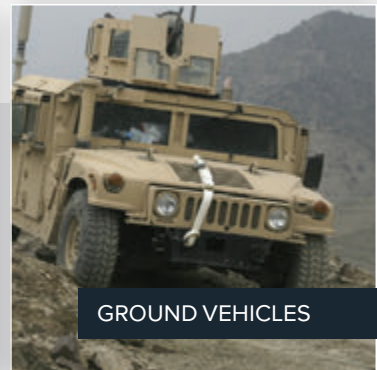
ROTARY WING



MARINE



ARMORED VEHICLES



GROUND VEHICLES

## CONTACT US

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