ITT defense product lines are continually expanding to provide our customers with unique solutions for applications on shipboard programs. Our extensive knowledge in these industries enable us to provide our customers with superior analysis, products, services and support. Our teaming and partnering approach for the customer's needs sets us apart from the competition.

**Applications**

ITT Enidine Shipboard Applications/Products

- Electronic Isolation
  - Wire Ropes
  - Elastomers
  - Hydraulic Shock Absorbers

- Weapon Energy Absorption
  - Recoil Management
  - Shock Absorption
  - Stabilization Skids

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Shock and Vibration Solutions
for Today’s Shipboard Industry

**Engineering**

ITT Enidine uses Nastran and Visual Nastran Motion software with for dynamic non-linear, 6-DOF system analyses in conjunction with FEA analyses on complex ship assemblies and systems.

In addition, we have developed proprietary closed form analytical programs to calculate the non-linear performance of our products.

ITT Enidine developed system equations in Matlab and Mathcad to simulate non-linear performance and predict dynamic analyses.

**Manufacturing**

ITT Enidine has an in-house manufacturing and testing facility for rapid prototype development and manufacturing. This facility is 90,000 sq. ft. and has an ISO 9001 and AS9100C compliant manufacturing operation.

Capabilities for:
- Design, development, prototyping, testing, qualification and manufacturing all in one 90,000 sq. ft. facility.
- Headquarters in Orchard Park, New York, USA
- ISO 9001 and AS9100 compliant

ITT Enidine performs full SDOF or 6DOF shock analysis for any range of full deck shock frequencies for MIL-STD shock testing.

**Capabilities**

-系統設計、開発、製造、試験、資格認定および製造が1つの90,000平方フィートの施設で行われます。
-オーダー・パーク、ニューヨーク、アメリカの本社。
-ISO 9001およびAS9100Cの認定された製造業界。

ITT Enidineは、SDOFまたは6DOFの衝撃分析を行い、 MIL-STDの衝撃試験におけるフルデッキの衝撃周波数の範囲を実施しています。
Elastomeric & Wire Technologies

Hydraulic Energy Absorption

ITT Enidine MOD Mounts

ITT Enidine MOD Mounts have been designed to meet the requirements of MIL-STD-810G environmental testing, MIL-STD-167 vibration, and MIL-S-901E light, medium and heavyweight barge shock inputs. These MOD assemblies can be assembled together to interface plates and bottom skids to lower profile than standard wire rope or HERM mounts used for system stabilization. MOD assemblies are unaffected by temperature extremes, chemicals, oils, ozone and abrasives.

MOD assemblies are made of common elastomeric elements fully vulcanized and experience.

MOD assemblies are equipped with EPDM seals and bonded to a top rail and bottom channel. MOD assemblies are designed to mount to any ISO 8609-1 Shock Isolation System.

MOD assemblies can be assembled together to interface plates and bottom skids to lower profile than standard wire rope or HERM mounts used for system stabilization. MOD assemblies are unaffected by temperature extremes, chemicals, oils, ozone and abrasives.

With their corrosion resistant, all-metal construction, ITT Enidine Wire Rope Isolators feature a cost effective patented crimping pattern that allows for easy deployment and re-deployment. Standard Wire Rope Isolators are comprised of stainless steel stranded cable threaded through aluminum alloy retaining bars that are mounted for effective shock and vibration isolation. HERM isolators also exhibit higher load capacity than standard wire rope isolators. Stiffness and damping performance can be adjusted to meet specific application needs. HERM isolators also offer a high deflections required for shock mitigation while maintaining stability in the off-axis directions. ITT Enidine also has developed proprietary HERM isolators that combine friction (Coulomb) damping with viscoelastic damping of elastomer for increased shock and vibration isolation.

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ITT Enidine MOD Mounts:

- Designed to meet the requirements of MIL-STD-810G environmental testing, MIL-STD-167 vibration, and MIL-S-901E light, medium and heavyweight barge shock inputs.
- Versatile mounting options and a variety of sizes.
- Designed to meet the requirements of MIL-STD-810G environmental testing, MIL-STD-167 vibration, and MIL-S-901E light, medium and heavyweight barge shock inputs.
- Fewer isolation mounts required within the same envelope space.
- Elastomeric compound provides additional stiffness and damping.
- Combines friction (Coulomb) damping with viscoelastic damping of elastomer.
- NBC wash down compatible.
- Fail-safe design and construction.
- Provides shock and vibration isolation for personnel and critical electronics.
- Designed and tested to pass MIL-S-901D grade-A heavyweight barge test.
- Provides static support and shock isolation for personnel and critical electronics.
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