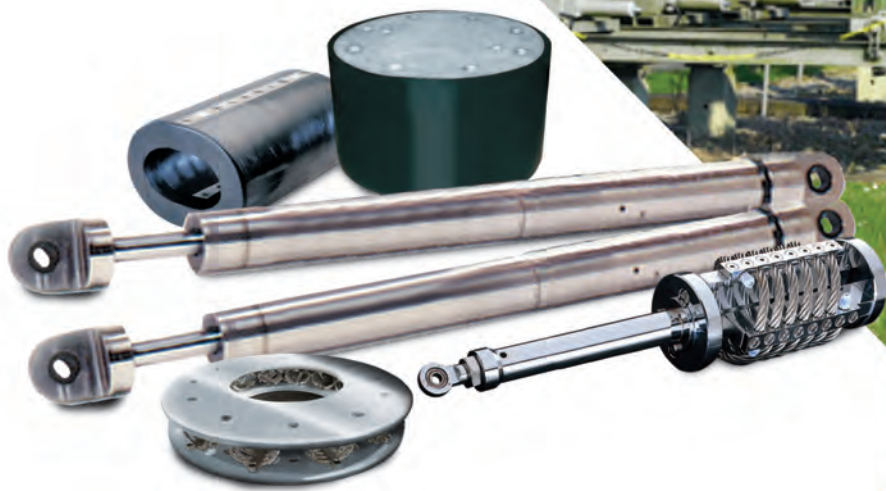


Seismic Control and Infrastructure Solutions



ITT

ENGINEERED FOR LIFE

Global Presence

ITT is a diversified leading manufacturer of highly engineered critical components and customized technology solutions for growing industrial end-markets in energy infrastructure, electronics, aerospace and transportation. Building on its heritage of innovation, ITT partners with its customers to deliver enduring solutions to the key industries that underpin our modern way of life.

ITT Control Technologies provides custom seismic isolation products for unique infrastructure applications worldwide.

ITT Enidine's engineering staff and technical sales personnel are available to assist you with all of your application needs.

- With a proven track record of operating with lean manufacturing, ITT Enidine produces higher quality custom products with greater efficiency and within shorter lead times.
- ITT Enidine manufacture's all of our products in-house, giving you fast reliable service to meet your critical application needs with on-time delivery.
- Here at ITT Enidine we have a proven track record in the infrastructure market with cutting edge technologies and engineering support, we can provide a custom solution to meet any need globally..

Our website features a worldwide representative lookup to help facilitate fast, localized service at www.enidine.com. For application assistance call our help line at 1.800.852.8508.

Founded in 1920, ITT is headquartered in White Plains, NY, with employees in more than fifteen countries and sales in more than 125 countries.

The company generated 2012 revenues of approximately \$2.2 billion. For more information, visit www.itt.com.



Short Stroke Dampers

High-Rise Buildings, Stadiums, City Centers and National Assets

- Viscous Dampers (Short Stroke) for Buildings
- Forces up to 600 kip
- Strokes to 8 inches
- Diagonal or Chevron Brace mounts
- Alpha .2 to linear
- In line, self contained spring loaded reservoir
- Visual or electronic fluid monitoring system



Long Stroke Dampers

Bridges, Highway and Structures

- Viscous Dampers (Long Stroke) for Bridges
- Forces up to 2000 Kips
- Strokes up to 60 inches
- Alpha .2 to Linear, Lock up
- In line, self contained spring loaded reservoir
- Visual or electronic remote fluid monitoring system



Research, Design and Engineering

- Static Testing – Including precision electromechanical machines with programmable controllers
- Drop Testing – Up to 4,000 lbs. and 600 in./sec.
- Vibration – Electromechanical shakers with digital controllers
- Dynamic Testing – Up to 500,000 lbs. at 80 in./sec.

- 3D CAD Software, Solidworks
- Finite Element Analysis, COSMOS
- Dynamic Software, Visual Nastran
- Structural Analysis, SAP 2000



Custom Solutions



Power & Utility Sub-Stations

- 6 degree of freedom Isolator Ring
- Stainless Steel construction
- Retrofits to most transformer bushings with little or no modification
- Dynamic tested to IEEE 693



HVAC and Chiller Units

- Equipment Seismic Isolation stand
- Combined Isolation Bearing, Elastomeric damping and Wire Rope Isolator technologies
- Protects equipment from vertical and horizontal seismic inputs
- No maintenance
- Chillers, HVAC, Medical Equipment



Power Plants

- WEAR™ Pipe Restraint/Vibration Isolator
- Nuclear, fossil generation plants, refineries and structural
- No oil, seals, greases or maintenance
- Compatible with most pipe attachment hardware



Oil and Gas Offshore Platforms

- Rubber Isolation Bearings
- Tuned mass dampers, generators, chillers and high value assets
- High or low damping configurations
- Can be applied in parallel with viscous damper technology
- 6 to 21 inch diameter



Refineries and Storage Facilities

- HERM (14 Hz Deck)
- Standard Product Selection
- Shipboard Design Expertise
- Electronics Isolation
- Systems Analysis and Integration
- Multi-Axis Isolation
- Minimum Sway Space



Customer Focused Approach

At ITT we will develop products, process and solutions for new applications that will generate excitement among our business partners while setting new industry standards as a premier components supplier.

- Conduct Fundamental Research to Develop Innovations
- Work with Customer to Fully Explore Application/Issues and Engage all Stake Holders
- Provide Solutions, Options and Trade-offs
- Deliver on our Promises

Research and Development

ITT Enidine is active in the fundamental research community and chairs/presents at technical conferences.

Research collaboration with:

- University of California (Irvine)
- University of Buffalo (US)
- Federal University of Santa Catarina (Brazil)
- University of Liverpool (UK)
- The Boeing Corporation (US)
- Bombardier

Design and Development

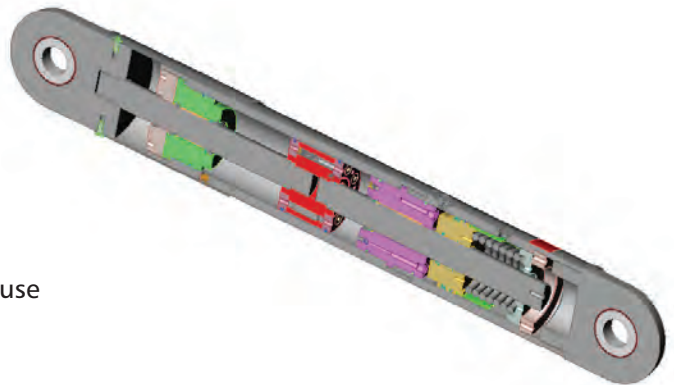
- All capabilities for design and development in house
- Assemble and test quickly
- Innovation in Technology
- Engineering Experience

Market Focused Solutions

- 3-COM Data Center, Santa Clara, CA.
- Coronado Bridge, San Diego CA.
- Sakhalin Island, Tuned Mass Damper
- Trump Tower, New York, NY
- San Francisco Opera House
- Syncrude Oil Sands Project
- Major Chimney Suppliers in Japan
- Siemens Transformer Isolation

Focused Product Applications

- Power Sub-Stations & Utility Base Isolation
- High-Rise Buildings
- Bridges & Highway Structures
- National Assets, City Centers & Stadiums



We have the world's broadest set of implementation choices for structural isolation.



ITT

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