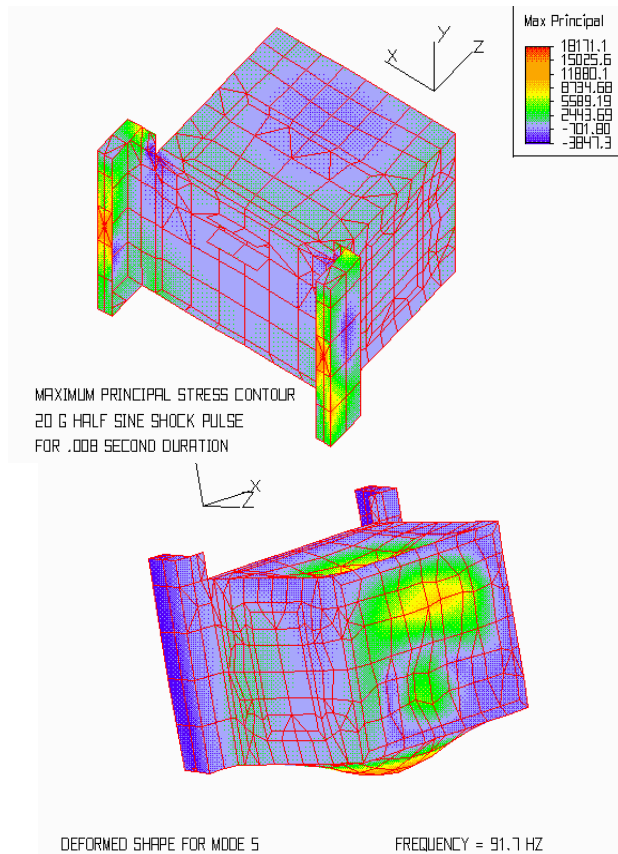


## Analytical Mechanics

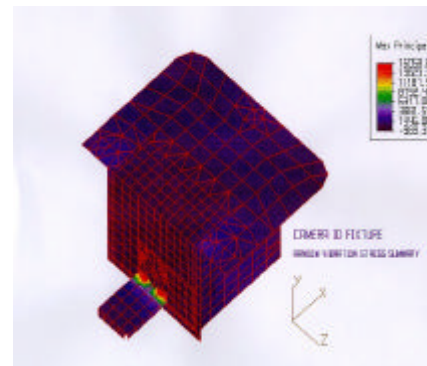
The M&T Company has had a comprehensive and proven Analytical Mechanics capability for over twenty years featuring state-of-the-art modeling and simulation technologies. We offer cost-effective, low-risk services to support your project.

### Analytical Mechanics Support Capabilities

- ◆ Applied Structural Analysis (Static & Dynamic)
- ◆ Equipment Shock Testing
- ◆ Fatigue Related Service Life Analysis
- ◆ Heat Transfer Analysis
- ◆ System Modeling & Simulation
- ◆ Finite Element Analysis
- ◆ Mechanical Design
- ◆ Hydraulic / Pneumatic System Analysis
- ◆ Cable Dynamic Analysis
- ◆ Prototype Development



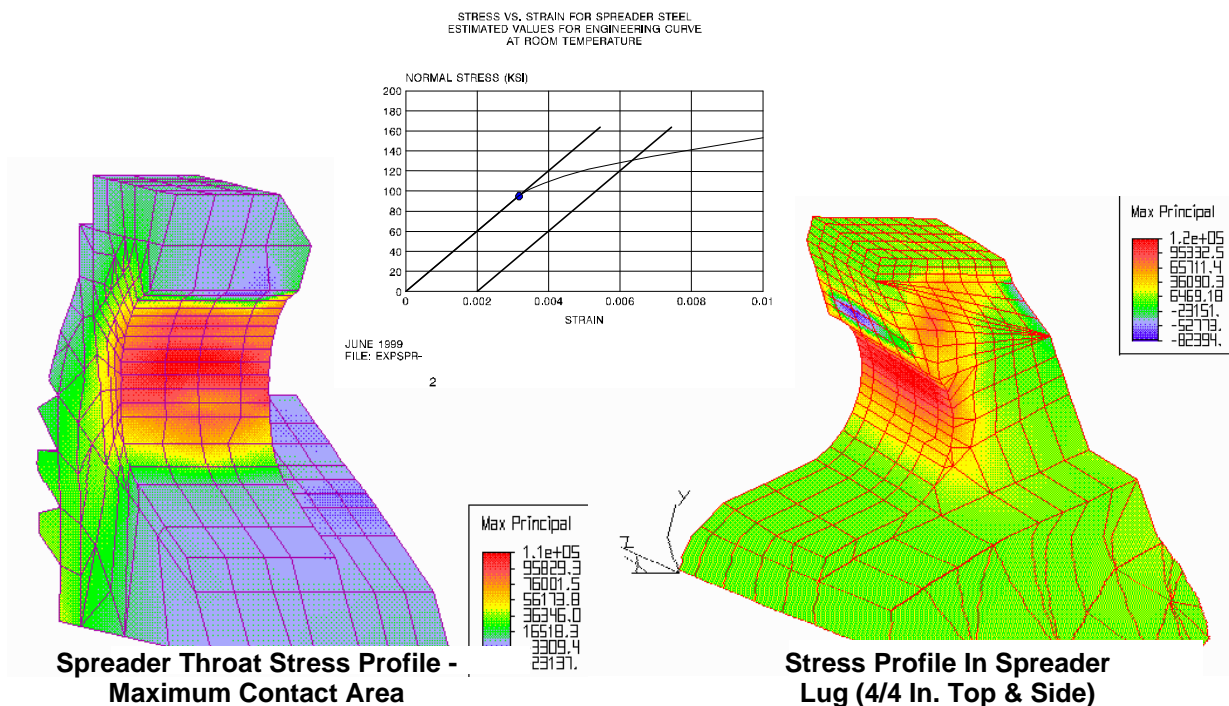
**FINITE ELEMENT MODEL (FEM) FOR  
 INTERFACE DEVICE**



# Analytical Mechanics Tools and Experience

## Software Tool Set

- ◆ **ALGOR** - Finite Element Analysis System
- ◆ **Dynamic Design Analysis Method (DDAM)** - High Impact Shock Analysis
- ◆ **SMOUNT** - M&T Custom Designed Software for 3-D Response Analysis of Non-Linear Resiliently Mounted Equipment.
- ◆ **FDA** - M&T Customized Applications Software Providing Finite Difference Analysis of Response to Design Parameters (Thermal, Kinematics, Reactive Forces)



## Experience

- ◆ Structural Analysis, Modeling, Simulation of High Energy Machinery
- ◆ Modeling & Dynamic Simulation of USMC Expeditionary Air Fields (EAF)
- ◆ Shock Testing
- ◆ Test Fixture Design
- ◆ Seismic Response Analysis
- ◆ Jet Blast Deflector Transient Heat Transfer Analysis
- ◆ Arresting Systems Analysis, Modeling & Simulation
- ◆ Barricade Systems Simulation
- ◆ High Energy Cable Dynamics

Please visit our web site at <http://www.cdi-gs.com/mt>

Contact: Tony DiDomenico, Director of Business Development at (631) 234-4001; TonyD@cdicorp.com.