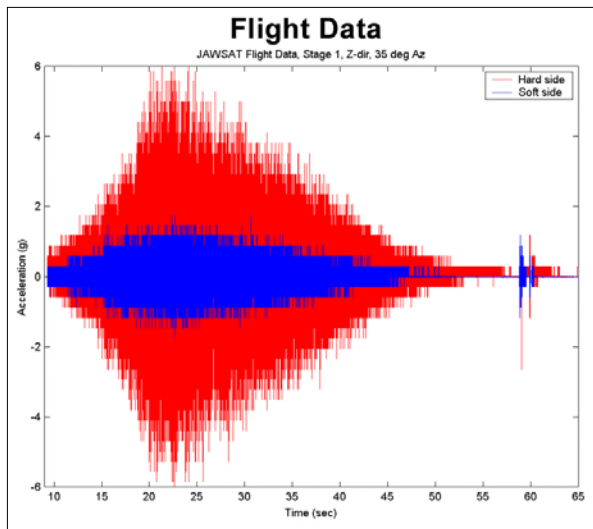


US Patent # 6,290,183



## Application

SoftRide MultiFlex is a multi-axis flexure system designed for vibration isolation of a whole spacecraft from launch vehicle-induced dynamic loads. This system is ideal for reducing both axial (thrust-direction) and lateral loads imparted to the spacecraft by a factor of two or more. SoftRide MultiFlex may be inserted at any field joint below the spacecraft and does not require modifications to flight hardware.

## Features

- Attenuates axial and lateral vibration loads
- Attenuates launch vehicle shock loads
- Monolithic titanium construction
- Constrained layer damping
- Linear passive isolation system, no linkages, no fluids

## Specifications

- Isolation frequency: Mission-specific, 20 Hz to 40 Hz
- Weight: Mission-specific, approximately 20 lb to 35 lb
- Dimensions: Typically 3" high x 5" long x 0.625" wide
- Payload weight: Isolators can be sized for any payload
- Quantity required: Mission-specific, minimum of 3.

## Flight Heritage

Five systems flown on Minotaur (2000)

