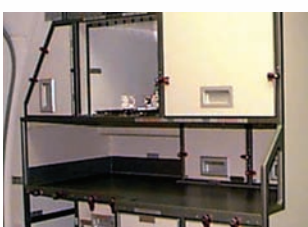


## Applications



### Seats

- Passenger seat recline
- Seat leg rest extensions
- Flight attendant seats
- Executive aircraft seats
- Crew seat arms
- Helicopter passenger seats
- Seat arm video monitor deploy



### Galley/Lavs

- Faucet time delay
- Toilet seat and lid damper
- Garbage waste flaps
- Galley chiller supports



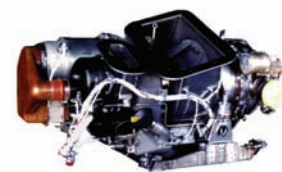
### Doors/Others

- Escape door actuation
- Avionics shock isolation
- Cargo / Passenger door deployment
- Access panel doors
- Cargo handling energy absorption
- Door latch actuation



### Stowage Bins

- Drop-down stowage bins
- Door opening stowage bins
- Life raft stowage bins
- Stowage boxes
- Stowage bin support/noise attenuation
- Pivot Bins
- Stowage bin visors



### Engine / APUs

- APU Isolators
- APU support tube isolation
- Main engine isolation
- Engine electrical isolation
- APU access doors
- Flight critical products



### Interior Panels

- Sidewall / ceiling / floor panel isolation
- Interior noise isolation
- Electronics isolation



### Ground Support Equipment

- Tow bars
- Ground support fuel tank
- Baggage handling systems
- Suspension shocks
- Engine stands

- Engineering Design Systems
- Research and Development
  - 3-D Modeling Software
  - FEA Analysis Capability
  - System Modeling
  - Integrated PDM System

### Vibration and Dynamic Testing

- Full in-house testing capabilities
- 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.

### Certifications

- AS9100 Approved
- ISO 9001
- PMA Part Approvals
- Numerous seat lock products are 16-g tested and approved



ENGINEERED FOR LIFE

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# Solutions in Motion Control and Vibration Isolation



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## Global Presence



Aerospace Controls  
Valencia, CA



ITT Enidine  
Orchard Park, NY

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 Enidine Inc.**  
We have what the world of aviation demands, and what passengers deserve.

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 pro forma 2010 revenues of approximately \$2 billion. For more information, visit [www.itt.com](http://www.itt.com).

## Lavatory

### Faucet Time Delay

- Controls water flow time
- Minimizes water waste



### Waste Flap Control

- Automatic controlled flap return
- Eliminates flap closing noise



### Toilet Seat/Cover Closing

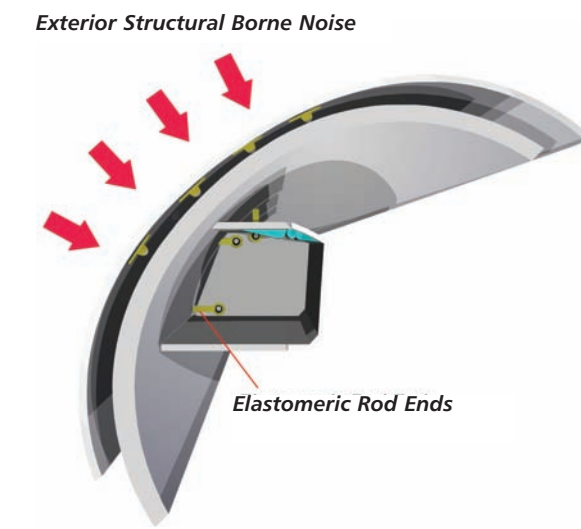
- Smooth seat/cover closing motion
- Eliminates free-fall noise irritation



## Stowage Bins

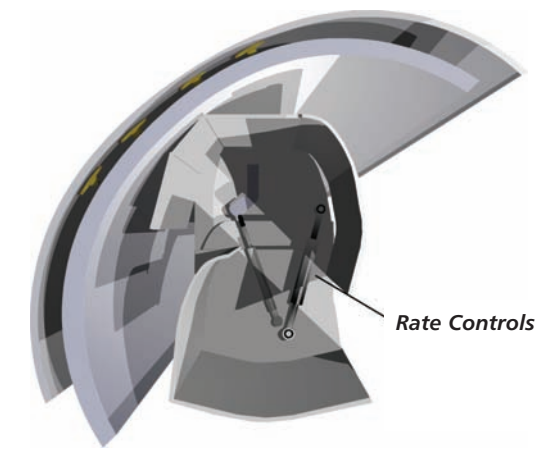
### Structural Borne Noise Abatement

- Statically supports equipment
- Inhibits vibration and noise transmission into cabin interior



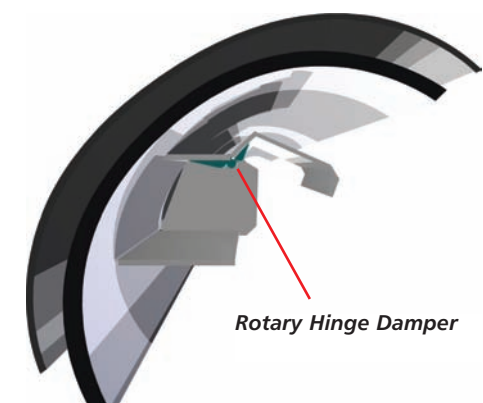
### Drop-Down Stowage Bin

- Smooth, controlled articulating or pivot bin opening motion
- Bin closing counterbalance assist and anti-slamming control



### Door Opening Stowage Bin

- Automatic, smooth door lift
- Door held in full open position for easy passenger access



## Seats

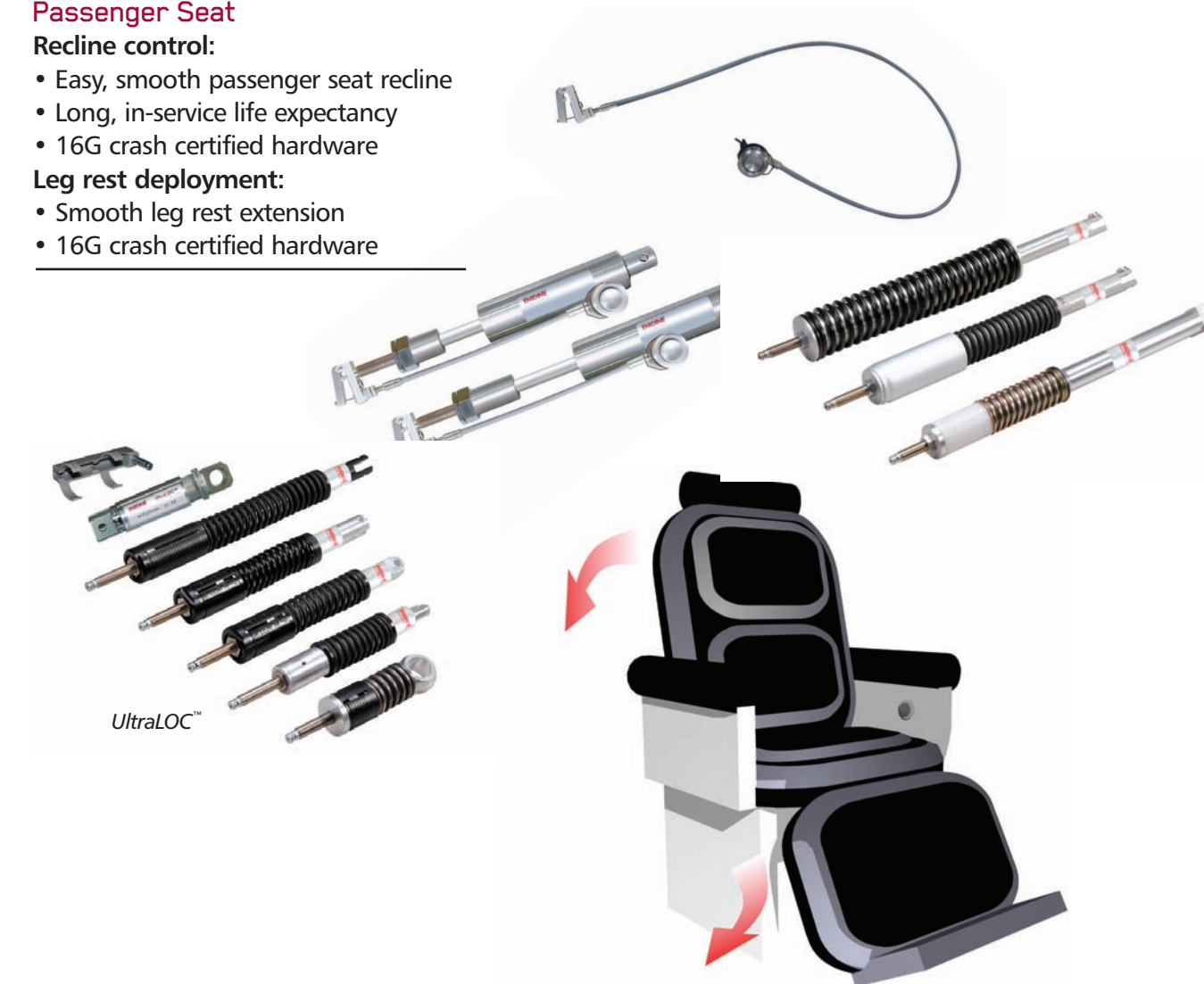
### Passenger Seat

#### Recline control:

- Easy, smooth passenger seat recline
- Long, in-service life expectancy
- 16G crash certified hardware

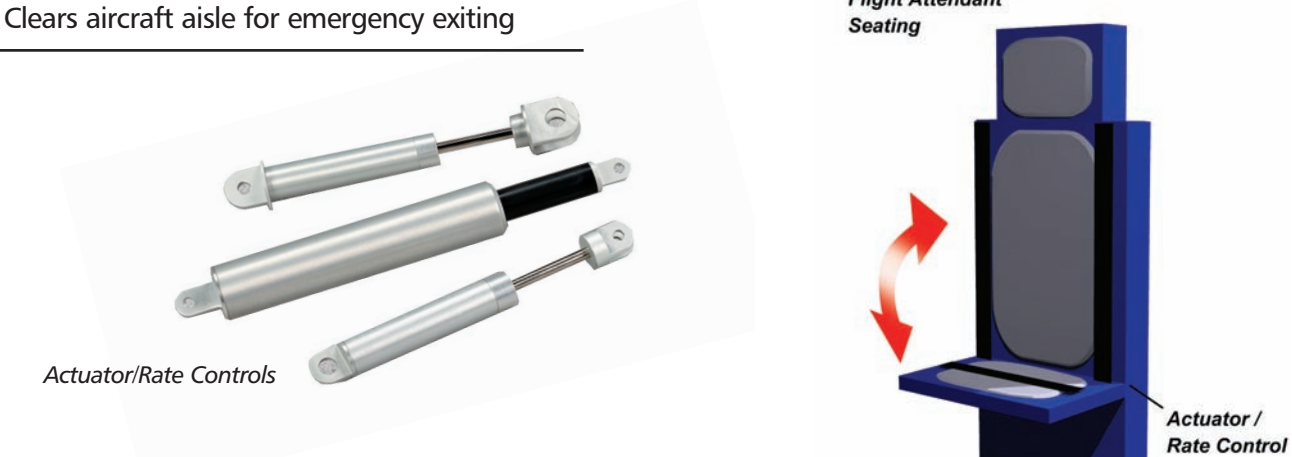
#### Leg rest deployment:

- Smooth leg rest extension
- 16G crash certified hardware



### Flight Attendant Seat Positioning

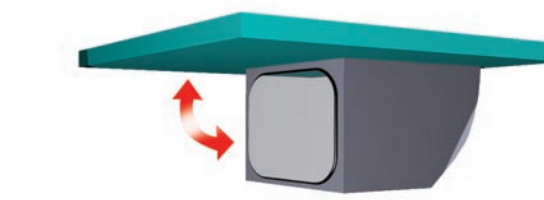
- Seat folds up automatically
- Clears aircraft aisle for emergency exiting



## Ceiling Equipment

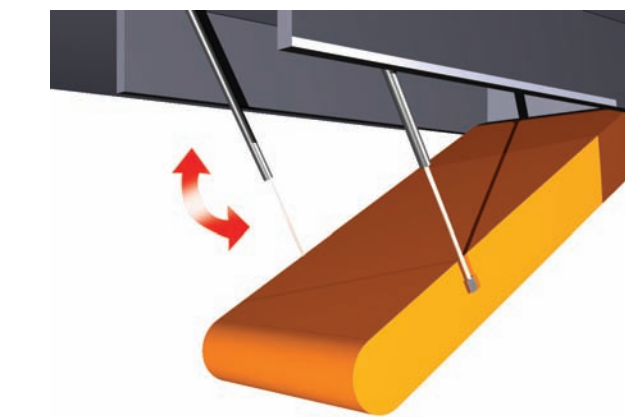
### Video Monitor Deployment

- Smooth, controlled monitor descent
- Positive position soft stop at end of downward travel



### Life Raft Bin Lowering Control

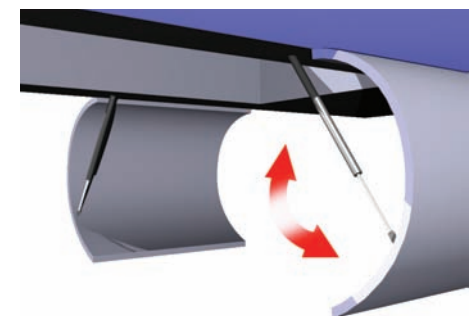
- Controlled, balanced lowering of heavy life rafts
- Zero maintenance



## Auxilliary Power Unit and Main Engines

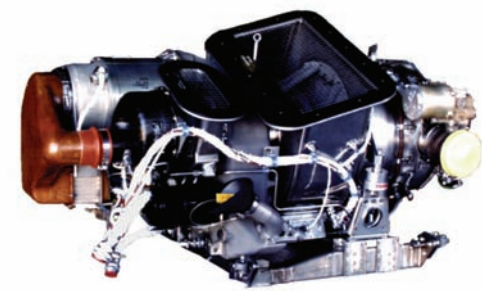
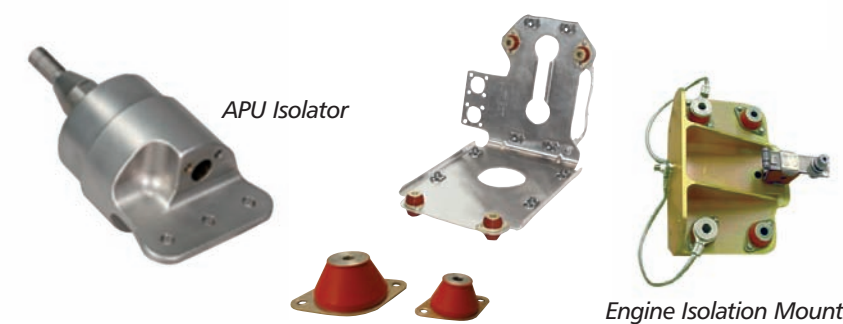
### Access Door Control

- Actuates door open
- Extending force prevents wind load flapping



### Engine Isolation

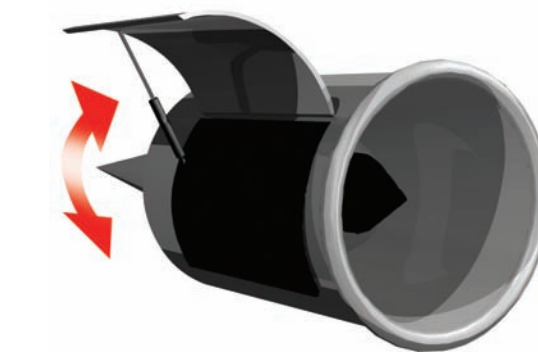
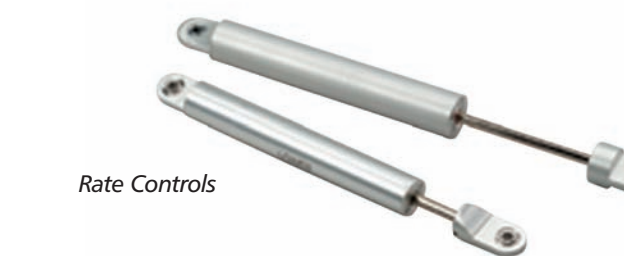
- Statically supports high temperature operating APU
- Isolates power unit vibration to airframe
- Main Engine Isolators
- Isolates engine's sensitive electronic equipment



## Doors - Fan Cowl, Passenger and Cargo

### Engine Cowling Strut

- Controls cowling closing rate – resists wind gusts
- Enhances safety of engine maintenance personnel



### Door Swing Control

- Provides consistent actuation force to control doors and door latching mechanisms

