

Environmental
Control Systems Conveyance
Technology and Innovation



ITT

ENGINEERED FOR LIFE



ITT Facilities at a Glance

ITT opened a new Center of Excellence in Nogales, Mexico for ECS components that compliments our Valencia, CA facility. This site was laid out specifically for manufacturing of ECS products: Composite ducts, flexible hoses, elastomeric bellows and electric heaters. We now have over 100,000 ft² of manufacturing space for our ECS products.

■ Composite Cell

- 2 Class 10,000 Controlled Contamination Areas (CCA) Rooms
- 4 Large Electric Ovens
- 18 Layup Stations
- Lectra and Eastman Cutting Machines
- Vacuum Table
- Honeycomb Core Processing

■ Elastomeric Cells

- Elastomeric Hose - 13 Layup Stations
- Elastomeric Ducting and Connector - 16 Layup Stations
- 6 Large Electric Ovens
- Hybrid (Elastomeric/Composite)

■ Environmental Monitored Area (EMA) Bond Room

- Insulation
- Honey Comb Core Processing
- Composite & Elastomeric
- Composite & Metal

■ Finish Product Room

- Sanding, Grinding, Cutting, Trimming, etc.

■ Quality and Test Room

- 9' FARO EDGE
- Romer and CMM Machine Measurement Capabilities
- Leak Testing
- Deflection Testing
- Tensile and Peel Testing
- Pressure Test
- Endurance Cycling at Temperature
- Heat Aging

■ Material Handling

- Walk in Freezers and Refrigerators
- Fastenal "SmartStore" Tool and Supply Vending

■ Machine Shop

- Nakamura & Matsura Multi-Axis Capabilities

■ Certifications

- AS-9100 and ISO 9001 Certified - EASA Approved
- FAA Approved Repair Station
- Nadcap Composite Manufacturing



Environmental Control Systems Conveyan

State-of-the-art Manufacturing



Assembly

ITT uses the latest visual aid techniques to ensure work instructions are easy to follow and parts are produced with the highest quality.



Composite Equipment

Manufacturing equipment includes 6 large Wisconsin Ovens and 3 Autoclaves for BMI preregs and components requiring higher strength. This allows ITT to manufacture and cure almost any sized ECS composite ducting, inlet or plenum.



Composite Lay-Up

Composite lay-up is performed in a Class 10,000 Controlled Contamination Area (CCA) room which includes a separate area for composite cutting. The CCA is controlled for temperature, humidity and positive pressure.

Pattern Cutting

Composite pre-preg patterns are nested and cut to size using the latest Lectra cutting machine minimizing lay-up times and waste.



Our Products

Highly Customized Solutions

Our broad capabilities enable us to provide you with the latest product innovations in multiple configurations and materials to meet your demanding aerospace application needs.

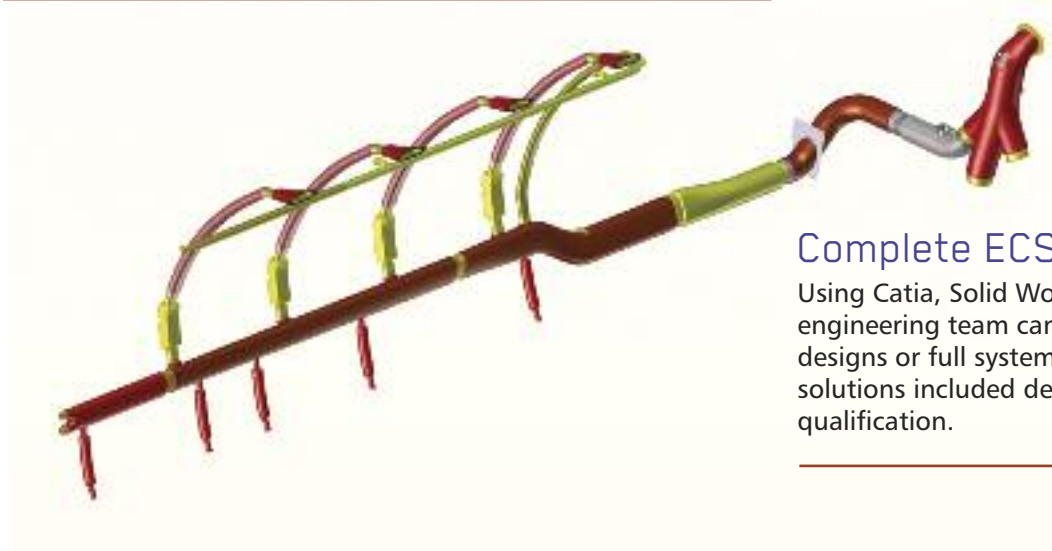


Engineering - Component and System Design



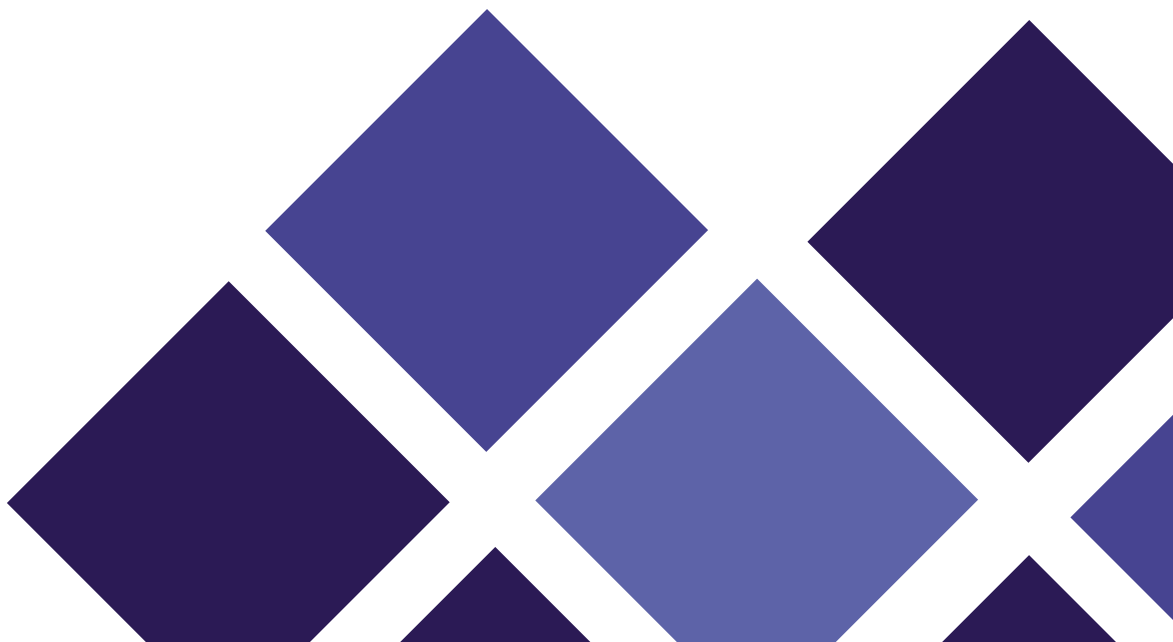
Fully Engineered Designs

ITT's engineering team can take your performance requirements and design components to maximize strength and operating conditions while minimizing weight and cost. With acoustic attenuators, we can also design ECS and APU silencers to meet your insertion loss requirements.



Complete ECS Solutions

Using Catia, Solid Works and ProE, ITT's engineering team can provide component designs or full system solutions. Turnkey solutions included design, testing and qualification.





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ITT Aerospace Controls
28150 Industry Drive
Valencia, CA 91355
USA
Phone: 661-295-4000
Fax: 661-294-1750
Email: sales.aerospace@itt.com
ecs.ittaerospace.com