

Environmental Control System Solutions

ITT has been manufacturing composite ducting and components for more than 40 years. We supply engineered components, build to print components and integrated systems. We work with OEMs through Tier 2 suppliers, with no opportunity too small or large for us to design and manufacture.

Products

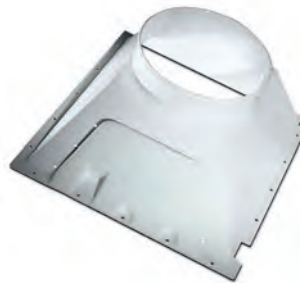
- Composite ducts
- ECS ducts
- ECS plenums
- APU inlets
- APU plenums
- Noise attenuation ducts

Design Features

- Low cost
- Low weight
- High reliability
- Custom end fittings
- Insulated components
- Hybrid components
 - Composite
 - Elastomeric
 - Metal

Current Programs

- A350 APU inlet plenums for engine test
- Embraer Legacy 450/500 Cabin distribution ducting, hoses, silencers
- G500, G600 Ram air inlet ducts, Ram air silencer and ECU exhaust duct
- HondaJet ECS cabin air distribution ducting and hoses
- Nordam/Hawker ECS cabin air distribution ducting
- C130 AMP ECS ducting and hoses
- F-18 ECS air distribution ducting
- CSeries APU inlet, oil cooler duct
- MRJ APU inlet
- ERJ 170/190 APU inlet
- ERJ 170/190 E2 APU inlet, oil cooler duct
- Q400 APU inlet
- 787 APU inlet
- ARJ APU inlet



Composite Components

Structural Materials

- Metal Components
 - Tubes
 - Hardware
- Honeycomb
- Resin systems
 - BMI, Epoxy, Polyester, Phenolic, Cyanate Ester
- Laminate materials
 - Fiberglass, Carbon, Graphite, Aramid

Design Capability

- Component Design
- System Design
- Laminate Design
- Proprietary Materials
- Prototyping
- CFD / Flow Design
- Thermal / Heat Transfer
- Design Tools
 - SolidWorks
 - CATIA V5
- Analysis Tools
 - Nastran/Patran
 - SolidWorks
 - ANSYS

Testing

- Qualification/Certification
- DO-160 / MIL-STD-810
- Pressure Proof / Burst
- Pressure Drop
- Tension
- Temperature
- Cyclic & Endurance
- Acoustics

Approvals

AS9100 and ISO 9001 Certified
EASA Approved
FAA Approved Repair Station

