

Composite Components

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 |



ENGINEERED FOR LIFE

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Structural Materials

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

Design Capability

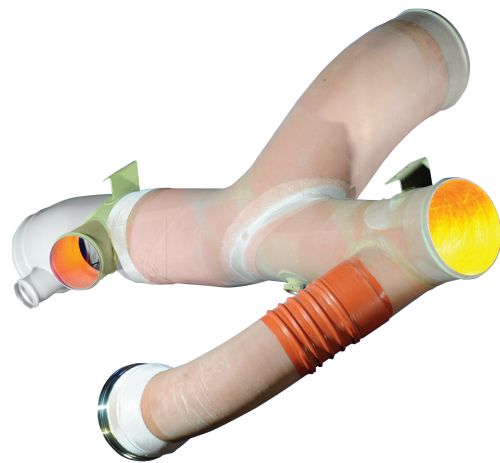
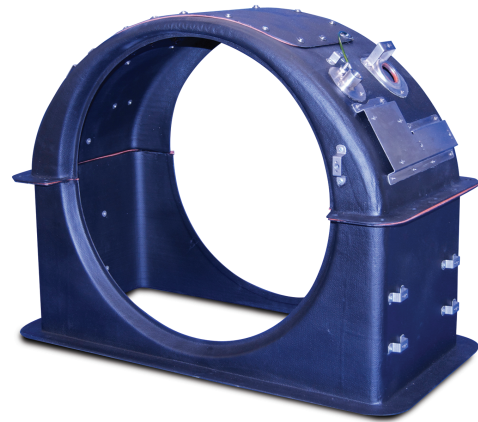
- Component Design
- System Design
- Laminate Design
- Proprietary Materials
- Prototyping
- CFD / Flow Design
- Thermal / Heat Transfer
- Design Tools
 - SolidWorks
 - CATIA V5
- Analysis Tools
 - Nastran/Patran
 - SolidWorks
 - ANSYS

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



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