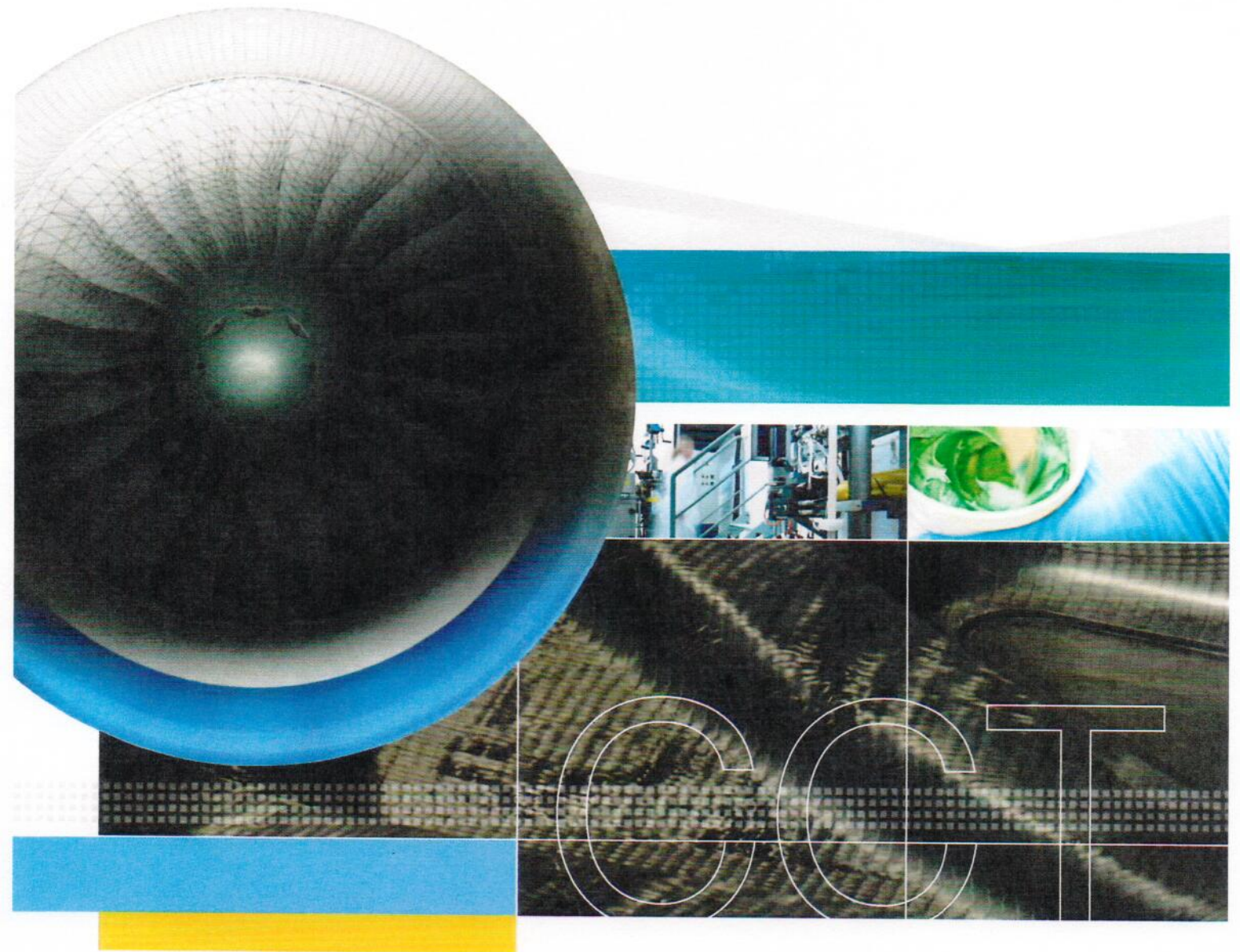


MOMENTIVE™

Combined Composite Technologies

One-Stop Component Design,
Process Development, Material
Selection, Prototype and
Manufacturing of Composites



Facilities and Tools

Combined Composite Technologies (CCT) combines 50 years of experience serving the aerospace, automotive and defense industries with state-of-the-art design and manufacturing capabilities. These include a **44,000 sq ft (4,100 m²) open plan manufacturing facility in Segensworth, UK**, which is equipped with the following:

Tooling Capabilities

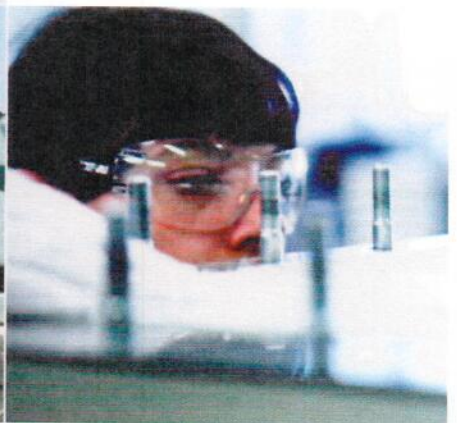
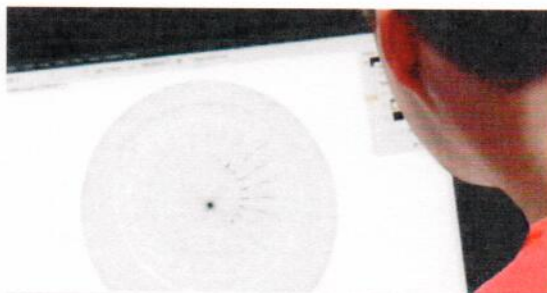
- Pattern making
- 5-axis CNC machining
- High and low temperature mold tools
- Router, drill and trim fixtures
- Ply cutting templates

Processing Equipment

- 2 m x 6.5 m autoclave
- Multiple, microprocessor-controlled curing ovens
- Vacuum bagging facilities
- Infusion / RTM tools and components
- 3 m x 6 m CMM

Design Capabilities

- Design, 2D and 3D solid modeling
- Metal-to-composite and pure composite design
- FEA material and model substantiation
- Confidential development
- 4 Catia™ design stations
- Ability to work in multiple formats (IGES, STEP, VDA and CATIA)



The CCT site features a fully upgraded clean room (BS5295 class J/USA 209E class M5.5), an ITAR cleanroom area, and 2,150 sq ft (200 m²) of laboratory space. It is ISO 9001: 2000 AS 9100 revision C certified as well as other customer specific aerospace and military approvals.



Capabilities and Services

CCT's expertise is developing unique tooling, prototypes and components for customers' complex, small-series production requirements. To ensure the highest quality composite solutions, we bring together a broad range of material and process knowledge including:

Fabric and Core Expertise

- Glass
- Carbon
- Aramid
- Dynema
- Hybrids
- Various core materials such as Nomex™ or aluminum honeycomb
- Various types of foam and balsa

Resin Technologies

- Phenolic
- Epoxy
- Polyester
- Vinyl ester

We're the science behind making the virtual, actual.



Processing Techniques

- Pre-preg / pre-form
- High and low temperature vacuum infusion
- RTM and VARTM, including high-speed composite manufacturing solutions in partnership with Momentive's Transportation Research and Application Center (TRAC)
- Autoclave
- Traditional hand lay-up

From design and process development to tooling improvements and prototype production, CCT provides a customer driven approach to ensure your composite components are engineered to your needs.



Idea to
Component,
CCT Delivers

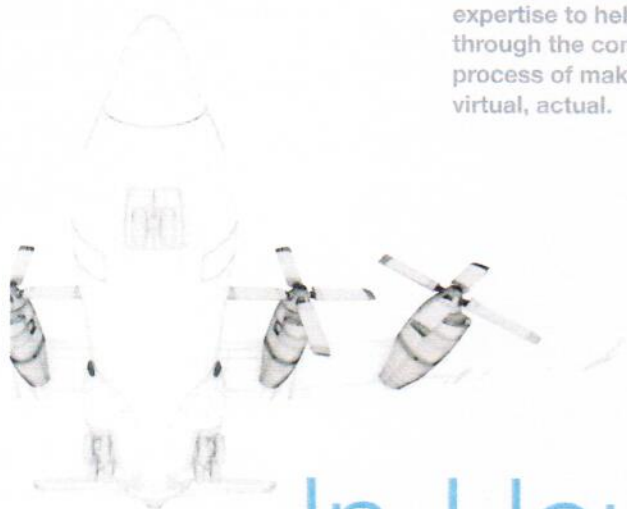
There's a big difference between having an idea in your head and a component in your hand. At Combined Composite Technologies (CCT), we have the resources and expertise to help you through the complex process of making the virtual, actual.

As a business unit of Momentive, the world's leading thermoset resin supplier, we command an uncommonly deep and current understanding of available raw materials and their potential to enhance processing and final results.

CCT complements Momentive's Transportation Research and Application Center (TRAC) in Germany, an advanced application development center where light weight structural

composite solutions for the automotive, aerospace and mass transportation markets are developed and tested. Momentive's existing R&D centers worldwide provide CCT with new resins, products and solutions to enable cutting edge composites.

CCT is your one stop source, where you can benefit from our 50 years experience providing the highest quality composite tooling and components.



In-House Design

Deep Material and Process Expertise

From Prototype to Series



Momentive: The Science Behind What Lies Ahead

At Momentive, our global team is focused on delivering value by helping our customers make their products and processes better. We do this by bringing our deep technical expertise, market experience and technology portfolio to bear on their specific challenges. We are the science behind thousands of innovations that enhance both our customers' business results... and everyday life.

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