



specialist composite solutions



Ottoman, monument and seating structures
for business and commercial aircraft cabins

high performance composite structures

Ipeco has a growing reputation for its expertise and innovation in the design, development and production of high performance structures utilising both metallic and advanced composite materials. Primary markets comprise aerospace, defence and space; industrial, automotive, rail and medical.

Specialist technical expertise

Design, analysis and testing

Streamlined and flexible processes

Manufacturing and assembly

Innovation and investment



a world leader in the
global crew seat market

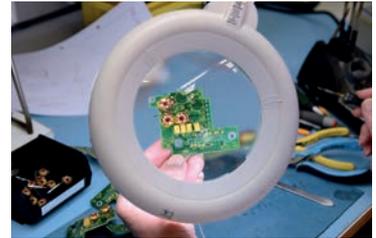


complete electronic
power management
solutions

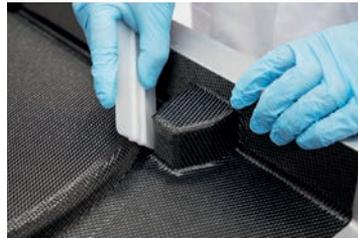
a growing presence
in executive seating
and galley inserts



world class precision
engineering and
composite manufacturing
capabilities



award winning
innovation



our pedigree

Founded in 1960, Ipeco Holdings Limited is now in its third generation of family ownership. During this time the Company has continued to develop valuable long-term relationships with customers and suppliers. Underlying this is a determination by Ipeco to invest, train, and coach its employees to cultivate a high level of opportunity, integrity and performance throughout the business.

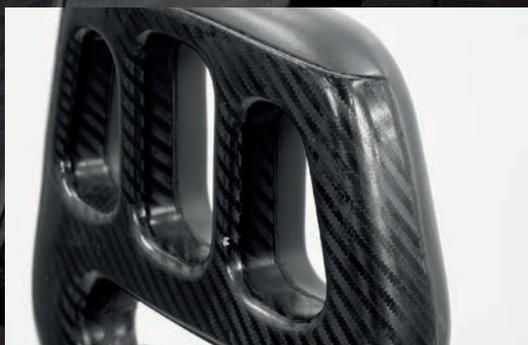
Ipeco provides the infrastructure, management and vision to deliver excellence. It is a socially responsible organisation with exceptional health, safety and environmental practices. Ipeco is resolute in its ambition to be an outstanding employer of choice and a company that customers want to do business with.

"Ipeco Composites adopts a collaborative approach with its customers to develop robust and innovative solutions for challenging projects. Backed by Ipeco group resources our team of skilled engineers and design technicians is focused on solving problems. Our facility is streamlined to deliver competitive small-to-medium batch production on time, every time."

Martin Want, General Manager



extending boundaries



Lightweight, aesthetically pleasing head restraint



New generation aerodynamic inlet ducting

Super Puma cabin seat

"As a leading aerospace company our engineering and project teams work in close partnership with customers worldwide to bring ideas, materials and processes together in pursuit of faster, cost-effective and lighter structures. We meet stringent quality guidelines and rigorous industry approval processes to deliver cost effective composite parts and assemblies that enable our customers' products to perform to the highest standards."

Paul Stacey, Quality & Technical Planning Manager



design and analysis for precise applications

Our software expertise includes:

Design & Drafting:

CATIA V5, R18 & 20, SmartTeam PDM,
CAD/CAM/CAE translation

Finite Element Analysis:

HyperWorks, OptiStruct, Radioss,
PamCrash, Nastran

Stress Calculations:

MathCAD, Visual Basic for applications

Ipeco Composites provides fully-integrated solutions: from concept development to optimised design for manufacture and assembly. As global demand for intricate, lightweight, load-bearing and high performance products increases, Ipeco continues to invest in its experienced design engineering team which can advise at every stage of production from prototype through to final assembly and manufacture.



State-of-the-art digital inspection

specialised and meticulous testing for customers

Our test facilities provide full stress analysis capabilities including:

Proof-of-concept analysis

Detailed finite element analysis

Topology and lay-up optimisation

Static strength and buckling analysis

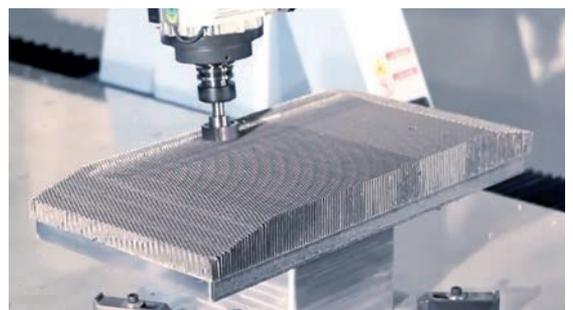
Crashworthiness and impact analysis

Assembly and build stress analysis

Certification



3 and 5 Axis machining centre – 3D composite parts and assemblies machined with ease



New Generation rolling stock
structural parts, shrouds and
crashworthiness covers/enclosures



bespoke manufacturing

Ipeco Composites operates from a comprehensive design, test and manufacturing facility near Bristol in the United Kingdom. The purpose-built site spans over 35,000 ft² accommodating large scale complex structures and small to medium volume production.

Focused on best-in-class solutions, it is part of the Ipeco group of companies and produces bespoke composite structures which support the development and production of award-winning aircraft crew and executive passenger seating, and innovative galley inserts in the aviation sector; structural parts, shrouds and enclosures for train manufacturers; and high performance fuselage and surfaces for specialist products in the defence sector.

Temperature and humidity-monitored clean room

3 and 5 Axis machining centres

200c / 7 bar autoclave

Controlled material storage at -18c

100kN Instron testing machine



Controlled mixing, metallic or
composite adhesive bonding

"Ipeco Composites can undertake and manage complete concept to production work packages. A wealth of in-house capabilities is supported by a network of approved sub-contractors to provide an integrated service for advanced composite and bonding requirements across a wide range of markets."

Michael Reitterer, Business Development Executive



in pursuit of continuous improvement



High strength rolling stock interiors and antenna shrouds

Utilising both bonding and mechanical joining technology, Ipeco Composites has the capacity for complex, large-scale assemblies and bonded structures, and the flexibility to produce small to medium components for rail, aerospace, defence, medical, automotive and other specialist industries.

Drawing on many years of experience our technical and production teams are frequently able to significantly reduce the parts count in a range of assemblies by recommending alternative moulding and manufacturing processes. This results in an improved product with enhancements in weight, strength and durability, as well as productivity improvements with shorter lead and assembly times.



Stand back for commuter train





processing capabilities

Autoclave moulding

Oven moulding

Press moulding

CNC Ply cutting

3 and 5 Axis CNC machining

Vacuum forming

Our facility is equipped with a wide range of composite processing tools all suitable for the manufacture of components and assemblies utilising long fibre pre-impregnated materials with epoxy, phenolic and other recognised matrices. We are also able to provide metal treatment, surface coating and plating finishes.



First class passenger seating,
ottomans and monuments



Laser ply nesting and cutting

Vacuum forming aerospace,
automotive and
industrial interiors

Ipeco Composites occupies a comprehensive and flexible plant where work flow can be adapted quickly to meet customers' changing and complex demands. Skilled engineers undertake a wide range of processes on an increasing portfolio of products with varied applications.

Machining

Alongside traditional composite machining methods, Ipeco has CNC capability with CMS 3 & 5 axis machining centres. Capable of accepting DXF, IGES and CATPart files, Ipeco can translate for any machining, minimising set-up and machine down time.

Clean Room

Temperature and humidity monitored, the air is changed every 15 minutes to keep airborne particles to a minimum.

Vacuum Forming

The Geiss T9 vacuum forming machine with a 1,500mm x 1,000m table provides broader product scope and capability.

Moulding

Ipeco uses autoclave, oven, press and vacuum bag moulding technologies. These enable us to mould high performance components ranging in size from over 6 metres to smaller than a postage stamp.



Autoclave, oven and press moulding: structural, semi-structural and interiors



quality and approvals

Ipeco Composites is accredited to AS9100 and holds specific approvals from a number of world-leading organisations including: Airbus, Zodiac Seating, Bombardier Transportation, Leonardo Helicopters, BAE Systems and Thales.



Structural bracketry for satellite power and fuel systems

innovation and investment

Ipeco is proud to invest in its people, its infrastructure and its capabilities. The Company has a policy of continuous improvement which spans the entire organisation globally.

Capital investment in equipment to deliver improved efficiencies and broader scope for customer requirements underpins a growing range of innovative products and changing requirements, particularly in the development of new solutions for the automotive, aerospace and defence markets.

Health and safety are important elements in our workplace. Our facilities are maintained to the optimum environmental, health and safety criteria in consideration of the employees' work space. All engineers and technicians are trained extensively in the use of equipment and materials during the manufacturing process.

new horizons

Ipeco is recognised for its expertise and comprehensive knowledge in developing new composite products that embrace new technologies in new and existing markets.

Ipeco Composites is also collaborating with pioneering global companies to turn their exciting new ideas into practical products that meet their objectives for stronger, lighter solutions and for improved replacement applications.

To find out more visit
Ipeco.com





Aerodynamic flight control surfaces and
fuselage for surveillance and target drones





Manufacturing • Distribution • MRO

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