

About this organisation

Machine translation

This organisation has been machine-translated based on data provided in German.

CIMPA GmbH offers services for the integration of information systems, for process optimisation - in particular the introduction or optimisation of product lifecycle management (PLM) solutions - as well as for the operation, support and training of IT systems. The focus is on the entire product lifecycle of industrially manufactured products - from conception to design, production and maintenance through to disposal.

CIMPA is familiar with all relevant lightweight materials thanks to its many years of experience in the aviation industry. Our experience ranges from material development and application consulting to industrial implementation. Within the framework of design-to-cost programmes, lightweight materials are constantly being further developed together with partners and used in products from Airbus, Premium Aerotec, Stelia, Diehl, Rockwell Collins, Airbus Helicopters and others. CIMPA has specialists in the field of structural components as well as cabin components and systems. Materials: - Aluminium and titanium alloys - Carbon fibre composites: long, short and continuous fibres, carbon fibre-reinforced SMC (Sheet Molding Compound), TFC, etc. - High-performance plastics: PPS, PEEK, PEK, PES, etc. The focus is on new materials and manufacturing processes such as ALM as well as the optimisation of designs, materials and processes.

Notkestrasse 11
22607 Hamburg
Hamburg
Germany
www.cimpa.com



Organisation type

Small or medium-sized enterprise

Sectors



Employees

50 up to 249

Turnover

€10m - €50m

Funding

n/a

CIMPA GmbH

About this organisation

Main areas covered Aviation-specific applications, Design-to-cost optimisation, 3D printing, Integration into PLM systems

Infrastructure

Certifications ISO 9001: 2008, AS/EN 9100:20

Keywords PLM, Product Lifecycle Management, IoT, Digital Manufacturing

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting Consulting, Technology transfer	✓	✓	✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Hybrid structures, Lightweight construction concepts	✓	✓	✓
Functional integration Media conductivity, Sensor technology, Material functionalisation	✓	✓	✓
Measuring and testing technology Component and part analysis, System analysis	✓	✓	✓
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation	✓	✓	✓
<i>Plant construction & automation</i>			
Recycling technologies Recycling	✓	✓	✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Fused deposition modeling, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS)	✓	✓	✓
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP)	✓	✓	✓
Fibres Glass fibres, Carbon fibres	✓	✓	✓
<i>Functional materials</i>			
Metals Aluminium, Intermetallic alloys, Magnesium, Steel, Titanium	✓	✓	✓
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	✓
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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