

Altran Germany S.A.S. & Co. KG

About this organisation

Machine translation

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

Altran is the world's leading provider of engineering and R&D (ER&D) services. The Altran Group offers its customers unique services to meet all challenges in the areas of innovation and transformation. Altran supports its customers in the development of tomorrow's products and services, from conception to industrialisation. Today, Altran has more than 50,000 employees in 30 countries.

Design and simulation of components and systems in all areas of industry and mobility. Use of bionics and artificial intelligence for optimisation and new development. Analysing and improving the life cycle assessment (LCA) of a product or system and material performance. Organisation and implementation of EU and nationally funded collaborative research projects (e.g. SARISTU).

Karnapp 25
21079 Hamburg
Hamburg
Germany
www.altran.com



Organisation type

Large enterprises

Sectors



Employees

500 and more

Turnover

More than €50m

Funding

n/a

Main areas covered

Bionics, Additive manufacturing, Simulation, Design, Aerospace

Infrastructure

Certifications

Keywords

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Machines and plants, Software & databases, Systems and end products	✓	✓	
Services & consulting Training, Consulting, Testing and trials, Funding, Engineering, Standardisation, HR services, Prototyping, Validation, Simulation, Technology transfer, Approval	✓	✓	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	
Functional integration Actuator technology, Media conductivity, Sensor technology, Thermal activation, Material functionalisation	✓	✓	
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Environmental simulation, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation	✓	✓	
Plant construction & automation Plant construction, Automation technology, Handling technology, Robotics	✓	✓	
Recycling technologies Downcycling, Material separation, Recycling, Upcycling	✓	✓	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Electron beam melting, Fused deposition modeling, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS), Stereolithography	✓	✓	
Coating (surface engineering) Galvanising, Painting, Plasma process, Powder coating	✓	✓	
Fibre composite technology Fibre spraying, Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing	✓	✓	
<i>Forming</i>			
Joining Hybrid joining, Adhesive bonding, Sewing, Riveting, Screwing, Welding	✓	✓	
Material property alteration Mechanical treatment, Thermochemical treatment, Thermomechanical treatment, Heat treatment	✓	✓	
Primary forming Extrusion, Casting, Injection moulding	✓	✓	
<i>Processing and separating</i>			
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Bioplastics, Biocomposites	✓	✓	
Cellular materials (foam materials) Closed-pore, Open-pore, Syntactic foams	✓	✓	
Composites Aramid fibre composites, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Metal-ceramic composite, Metal matrix composite, Nanocomposites, Natural fibre reinforced plastics (NFRP)	✓	✓	
Fibres Aramid fibres, Glass fibres, Ceramic fibres, Carbon fibres, Metal fibres, Natural fibres	✓	✓	
Functional materials Electrorheological/magnetorheological fluids, Electrostrictive / magnetostrictive materials, Shape memory materials, Piezoelectric materials	✓	✓	
Metals Aluminium, Intermetallic alloys, Magnesium, Steel, Titanium	✓	✓	
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	
<i>Structural ceramics</i>			
(Technical) textiles Yarns, rovings, Meshes, Laid webs, Woven fabrics, Nonwovens, mats	✓	✓	

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Contacts

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Mr Andreas Kötter
Adv. Business Development Manager

andreas.koetter@altran.com

Mr Markus Hollermann, MSc
Expert Innovation & Bionics

markus.hollermann@altran.com