

Enrichment Technology Company Limited

Branch office Germany

About this organisation

Machine translation

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

Enrichment Technology Company Limited, a joint venture between Urenco and Areva, is a world leader in the manufacture of ultra gas centrifuges (www.enritec.com). The latest developments aim to utilise energy storage based on the flywheel principle. The product, EnWheel®, enables a decentralised energy storage concept with a long service life and a high number of cycles (www.stornetic.com).

Enrichment Technology has been using carbon fibre products since the early 1980s. Thanks to its many years of experience, it has been possible to build up the company in such a way that it can demonstrably manufacture several 100,000 CFRP products per year. The products are mainly manufactured using the winding and braiding process with subsequent RTM technology. The company is set up in such a way that it can characterise the initial analysis, quality control and final inspection of both the manufactured products and the semi-finished products and raw materials. Both the theoretical calculation/design and the component dynamics can be analysed within the product development process.

Stetternichter Staatsforst
52428 Jülich
North Rhine-Westphalia
Germany
www.enritec.com

Main areas covered

Ultra gas centrifuge, Flywheels, Pressurised gas cylinders, Pressure rollers

Infrastructure

Production for CFRP products, Material testing laboratory, R&D laboratories

Certifications

ISO9001

Keywords

Wrap, lichen

Memberships



Organisation type

Large enterprises

Sectors



Employees

500 and more

Turnover

More than €50m

Funding

n/a

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Machines and plants, Systems and end products	✓	✓	✓
Services & consulting Testing and trials, Funding, Engineering, Prototyping, Validation, Simulation, Technology transfer	✓	✓	✓
Field of technology			
Design & layout Lightweight manufacturing, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	✓
Functional integration Sensor technology, Thermal activation	✓		
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, 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	✓	✓	
Recycling technologies Downcycling, Material separation	✓	✓	

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
Coating (surface engineering) Galvanising, Painting, Sputtering	✓	✓	✓
Fibre composite technology Filament winding, Resin infusion process, Resin transfer moulding	✓	✓	✓
Forming Fluid active media based forming	✓	✓	✓
Joining Adhesive bonding, Screwing, Welding	✓	✓	✓
Material property alteration Mechanical treatment, Heat treatment	✓	✓	✓
<i>Primary forming</i>			
Processing and separating Drilling, Turning, Milling, Honing, Sawing, Grinding, Cutting	✓	✓	✓
Textile technology Braiding			✓

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites Aramid fibre composites, Glass-fiber reinforced plastics (GFRP), Ceramic matrix composite (CMC), Carbon-fiber reinforced plastics (CFRP), Nanocomposites	✓	✓	✓
Fibres Aramid fibres, Glass fibres, Ceramic fibres, Carbon fibres	✓	✓	✓
<i>Functional materials</i>			
Metals Aluminium, Steel, Titanium, Others (Zircon)	✓	✓	✓
Plastics Thermoset plastics	✓	✓	✓
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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