### WINDnovation Engineering Solutions GmbH

Engineering service provider

### About this organisation

Development of components for wind turbines, in particular rotor blades made of fibre composites. Development and optimisation of fibre composite structures for aeronautics/ automotive and shipbuilding.

Rotor blades for wind turbines in composite lightweight design, System integration, Optimisation of composite lightweight structures, R&D, Structural layout and verification, Lightweight material design

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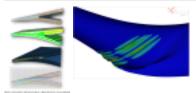
**Organisation type** Small or medium-sized enterprise

Sectors ቻ 🖸 🚊 み 🕒 Others:

**Employees** 10 up to 49

**Turnover** €2m - €10m

Funding n/a



Main areas covered	Design of Wind Turbine Blades, Composite Design, Smart devives, Benchmarking of Composite Materials, Consulting Services		
Infrastructure	FEA with ANSYS, Optimization with p7, OpenFoam, SOLIDWORKS, AutoCAD		
Certifications	ISO9001:2015		
Keywords	Composite Design, Wind Energy, Aeroelastics calculations, Rotor blade design		
Memberships	Rotorblatt-Allianz		

# **WINDnovation Engineering Solutions GmbH** Engineering service provider

	Research	N Development	lanufacturing & Supply
Offer			
<b>Products</b> Parts and components, Systems and end products, Others (Design Documentation for Composite Structures)		~	~
<b>Services &amp; consulting</b> Consulting, Engineering, Prototyping, Validation, Simulation, Technology transfer, Approval		~	~
Field of technology			
<b>Design &amp; layout</b> Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction		$\checkmark$	
<b>Functional integration</b> Sensor technology, Material functionalisation		$\checkmark$	$\checkmark$
<b>Measuring and testing technology</b> Component and part analysis, System analysis		$\checkmark$	$\checkmark$
<b>Modelling and simulation</b> Loads & stress, Life-cycle analysis, Optimisation, Structural mechanics, Materials	$\checkmark$	~	$\checkmark$
<b>Plant construction &amp; automation</b> Plant construction, Handling technology		$\checkmark$	
<b>Recycling technologies</b> Downcycling, Material separation, Recycling, Upcycling, Others		$\checkmark$	

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	Deserve		lanufacturing
	Research	Development	& Supply
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
<b>Fibre composite technology</b> Fibre spraying, Filament winding, Manual lamination, Resin infusion process, Pre-preg processing, Vacuum infusion		$\checkmark$	
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating			
<b>Textile technology</b> Preforming, Textile surface treatment and finishing, Weaving		$\checkmark$	

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	Research	N Development	Aanufacturing & Supply
Material			
<b>Biogenic materials</b> Bioplastics, Biocomposites, Wood	$\checkmark$		
<b>Cellular materials (foam materials)</b> Closed-pore, Open-pore	$\checkmark$	$\checkmark$	$\checkmark$
<b>Composites</b> Glass-fiber reinforced plastics (GFRP), Carbon- fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP), Laminates	$\checkmark$	$\checkmark$	$\checkmark$
<b>Fibres</b> Glass fibres, Carbon fibres, Natural fibres	$\checkmark$	$\checkmark$	$\checkmark$
Functional materials			
Metals			
<b>Plastics</b> Thermoset plastics			$\checkmark$
Structural ceramics			
<b>(Technical) textiles</b> Laid webs, Nonwovens, mats	~	~	~

(	Contacts				
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