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

Wagner-Régeny-Strasse 14 12489 Berlin Berlin Germany ☑ windnovation.com



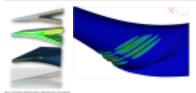
Organisation type Small or medium-sized enterprise

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		

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

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	Deserve		lanufacturing
	Research	Development	& Supply
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology 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			
Textile technology Preforming, Textile surface treatment and finishing, Weaving		\checkmark	

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

(Contacts				
	Mr DiplIng Michael Olle Managing Director	Mr DiplIng Albrecht Kantelberg Technical Director			
	contact@windnovation.com	info@windnovation.com			