MaJoR

Maintenance, Joining, and Repair innovation in multidomain defence

Cascade Funding Call# 1 Awardee

MJR1-102

Project Acronym: HyJoiM

Project Title: Hybrid Joining for multi material structures

Abstract

HyJoiM aims to develop hybrid joining technologies for metal-composite structures based on the "FAUSST" technology: using a metal-reinforcement fibre hybrid textile, different variants of joining profiles can be produced. Those joining profiles can be applied to composite parts and structures adding a metal-weldable joint to it. The project will take up the requirements and develop corresponding FAUSST joining profile designs. By assessing the variants towards load conditions, production, NDT, etc. a final design for a demonstration will be selected. The demonstration will include the production of the FAUSST joining profiles, the implementation in composite structures for testing (NDT, destructive testing, production testing, environmental testing) as well as for the assembly of a demonstrator (preferably naval mast) made from several composite parts using the joining profiles

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Company description

AIP Composites (AIP – Angewandte Innovative Produkte GmbH) is a German engineering and manufacturing company specialising in the development and production of fibre-reinforced composite components. Founded in 1992 and based near Rostock, the company has extensive experience in transforming innovative ideas into high-quality products. AIP offers a comprehensive range of services, covering the entire value chain from initial concept and prototype development to full-scale series production. With its own production facilities, the company is capable of producing pre-models, full-scale models, moulds and complex components for both small and large production runs. The company's core expertise lies in creating lightweight, high-strength and electrically insulating composite structures with complex geometries and advanced requirements. By working closely with partners in design, engineering and manufacturing, AIP delivers tailored solutions to meet specific customer requirements. AIP serves a diverse range of industries, including wind energy, maritime applications, aviation and transport systems. Its products include technical system components, specialised constructions, subassemblies and components for rolling stock and maritime industry.

Key facts

Company	AIP - Angewandte Innovative Produkte GmbH
Country	Germany
Topic	Hybrid Structures for Defence Platforms: Multi-Material Design, Joining & Reversible Interfaces
Start date	01/09/2026
End date	28/02/2027
Budget/ Grant	59.520,25 €

Contact

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