



Title :

Completely flexible and reconfigurable fixturing of complex shaped workpieces with MRF

Acronym : MAFFIX (<http://maffix.fatronik.com>)

Contract number : COOP-CT-2006-032818

Framework Programme: FP6 - CRAFT

Duration :

September 2006- August 2008

Partnership :

- Fundacion Fatronik, Spania, **Coordinator**
- Subcontratacion de Proyectos Aeronauticos S.A., Spania
- HIGFTECH Engineering SRL, Italia -ROEMHELD, Germania
- TALLERES AIBE SA, Spania
- **SC IMA-METAV SA , Romania, end-user**
- Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Orschung,Germania
- Saarland University-ZIP,Germania

Objectives :

The main objective of the MAFFIX project is the development of a completely flexible, reconfigurable and reusable workholding system capable of locating, clamping and supporting firmly any type of component independently of its shape, material and structural stiffness while several machining operations or other manufacturing related operations are exerted on it. For achieving such objective a new type of fixture based on magnetorheological (MR) fluids will be developed.

Time to market: this project will deliver a prototype of the flexible fixture system that is expected to be fully commercialized within one year after project completion. During this period the system will require further work involving comprehensive field-testing and production engineering of the system to satisfy cost, performance and quality criteria in full-scale production of the device. The 3 fixture manufacturers involved in MAFFIX project will take the responsibility to market the system all over Europe, increasing European aerospace SMEs' competitiveness.

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