

International Brokerage Event
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Description of the Organization



When you need a reliable long term partner for your forging solutions, KANCA offers a wide range of products, providing satisfaction in quality, logistics, work ethics, costs and sustainability.

Having all the necessary facilities such as product and forging die design, production, forging, heat treatment and machining under the same roof, KANCA has proven to be a single point of supply, expanding with further customers like VW Group, BMW, Toyota, TRW, Delphi, Bosch, Scania and many others, those rely upon the advanced quality of KANCA.

Description of the Organization



We have performed numerous national projects with industrial partners and universities. Some of them are:

- 1 The manufacturing optimization of the piston rod by double-side cross wedge operation
- 2 The development of forging technology of Titanium alloy for aerospace industry
- 3 The development of Thixo forging process and prototype manufacturing
- 4 The optimization of tribological parameters of the forging dies for increased tool life
- 5 The development of forging process of knuckle joint
- 6 The improvement of the machinability of high strength forged steels

Description of the research interest



- | Development of a Laser Metal Deposition technique **suitable for implementation on forging dies**
- | **Optimize LMD** process from **material integrity aspect** according to a metallurgical investigation
- | Investigate **further improvement** of LDM integrated dies with **heat treatment**.
- | Investigate **machinability of deposited layer** and develop optimal machining parameters.
- | Evaluate lifetime of the dies and **determine manufacturing parameters for the most durable die**.
- | **Decrease manufacturing time** by eliminating persistent repair procedures.
- | **Decrease manufacturing cost** per dies by extending service life.

INDUSTRY 2020 IN THE CIRCULAR ECONOMY

FOF-07-2017: Integration of unconventional technologies for multi-material processing into manufacturing systems



- Objectives:
 - **to** increase of at least 20% in the forging die service life
 - **to** reduce of at least 15% in the production cost through process integration and improved manufacturing quality.
 - **to** improve resource efficiency by reducing the use of raw materials and energy consumption by at least 10%.
 - **to** strengthen position of Turkish and European manufacturing industry through the intensive implementation of innovative and unconventional technologies

Consortium - profile of known partners



No	Partner Name	Type	Country	Role in the Project
01	KANCA	IND	Turkey	Coordinator
02	RAPTECH	RTD	Czech	Partner
03	AML	SME	UK	Partner
04	COMTES	IND	Czech	Partner
05	AFRC	UNI	UK	Partner

Consortium - required partners



No	Expertise	Type	Country	Role in the project
01	Die Manufacturing	RTD	Germany	Partner
02	Laser Metal Deposition	SME	Spain	Partner
03				
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