

Goal of the project:

The project goal was to obtain ferrous alloys powders that can be used in thermal spraying techniques.

Short description of the project:

The project consisted in realizing ferrous alloys powders having dimensions ranging between 15 – 45 µm, like ferroboron, ferrosilicon, ferromolybdenum, ferrophosphorus and chromium and iron powders.

Project implemented by: ISIM Timișoara

Implementation period:

October 2012– November 2012

Main activities:

The main activity during the project was to optimize the chemical composition of the ferrous alloys and to obtain the powders at the requested dimensions.

Results:

Ferrous alloys powders for thermal spraying processes

Fields of interest:

Thermal spraying process

Financed through/by: ISIM Timișoara

Research team:

Codrean Cosmin, Opreș Carmen, Uțu Dragoș

Research centre:

Research Centre for Processing and Characterization of Advanced Materials

Applicability and transferability of the results: Obtaining coatings with high mechanical properties and good corrosion resistance through thermal spraying technique.

Contact information:

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Goal of the project:

The project goal was to design patterns for cutting leather used for dressing steering wheels in order to increase productivity and profitability.

Short description of the project:

The project consisted in creating a 2D model of the patterns used for cutting leather which can be linked to a sewing machine, so that the process of cutting leather can be automated.

Project implemented by:

TRW Automotive

Implementation period:

October 2012– November 2012

Main activities: The main activity during the project was to realize the 2D models using CAD software for the patterns used depending on the shape of the steering wheel.

Results:

2D – CAD models for patterns that can be linked to a sewing machine.

Fields of interest: Automotive

Financed through/by: TRW Automotive

Research team:

Codrean Cosmin, Opreș Carmen, Uțu Dragoș

Research centre:

Research Centre for Processing and Characterization of Advanced Materials

Applicability and transferability of the results:

The technical documentation of this project allows the implementation in each TRW factory all over the world.

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