



Development of new UV laser for customization at industrial level through high quality marking on different materials (UV-Marking)

Project newsletter

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Programme area:	FP7-2012-NMP-ICT-FoF Factories of the Future
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Partners:	ROFIN SINAR LASER GMBH (Germany) WIRTHWEIN AG (Germany) MERCK KGAA (Germany) ILVA GLASS SPA (Italy) TORRECID SA (Spain) UNIVERSIDAD DE ZARAGOZA (Spain) U-MARQ LIMITED (United Kingdom)
Website:	www.uv-marking.eu
Duration:	01/07/2012 – 30/06/2015
Budget:	€6.102.334 (EU contribution: €3.657.000)
Contract number:	314630

The UV-Marking project

The **main objective** of this project is to develop a **new laser system in the ultraviolet wavelength** used for **high quality aesthetical marking in different materials** (glass-ceramic, ceramic and plastics). It will demonstrate that **unitary customization** will be possible at the end of UV-Marking project. A new SW application will be developed so that real customers can create their own designs at home, and send them to the factory to be marked in real products. **Industrialization** is a must, and therefore the laser system will be integrated into an industrial process to demonstrate its feasibility in a real scenario.



Expected Impact

The project aims at bringing UV-laser advantages for aesthetic marking into production of European key industries, by improving both materials and UV laser systems. The project results will introduce high flexibility as it will be possible to mark at the end of a process. This will reduce stock levels (of similar pieces only with aesthetic differences), increase marking options for customization, reduce time to market of new and modified products, improve quality, delivery time, etc.

News

Kick-off meeting in Zaragoza

The kick-off meeting of UV-Marking project was held on the 1st and 2nd October 2012 at the head office of BSH ELECTRODOMÉSTICOS ESPAÑA S.A., in Montañana, Zaragoza.

Top-level representatives of all partners were present in the meeting. The objectives of the meeting were:

- To make an overview of the project and work already done
- To define and specify the roles of each partner involved in the project tasks and list of actions to be carried out.
- Description of the administrative and financial procedures to be followed

The project coordinator, Mr. Andrés Escartin, was the chairman of the meeting. He presented the project overview, and then the workpackage leaders explained the status of

the project in their respective workpackages. Technical aspects were intensely discussed; for example, technical requirements for laser and for final goods, as well as other specifications.

All partners agreed that a great collaboration among them will be a central point for the project success, and they all showed their commitment with the project aims. Specific actions and meetings were established for the following months.

Next are some pictures of the meeting:



Picture 1 - Mr. José Juste, CTO of BSH, welcomed all the representatives.



Picture 2 - Some of the attendees to the meeting



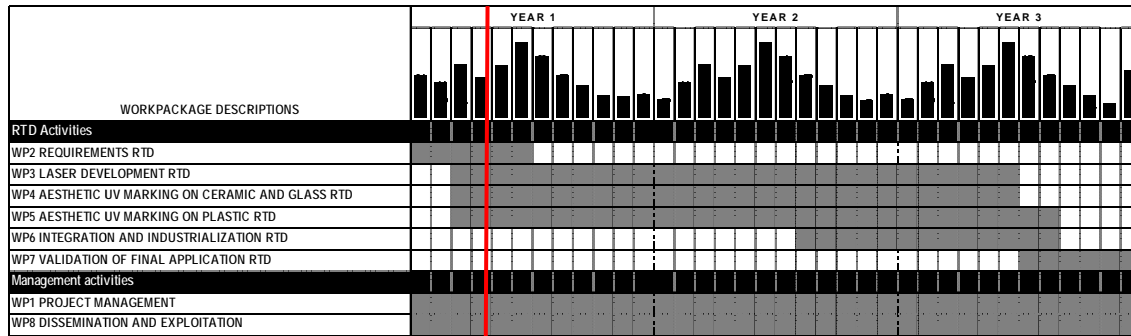
Picture 3 - Official picture with all the representatives

Project status

After the first four months of the project, 3 technical workpackages have already started, as foreseen in the initial planning.

All partners are working in the establishment of the necessary requirements for materials, laser, final products, etc. Apart from the kick-off meeting, other technical working meetings took place among partners of related fields (plastic materials, by one side, and glass-ceramic materials by other side).

In addition, the project website has been created and launched (www.uv-marking.eu) with both a public and a private area, and also the logo of the project, as well as main templates, has been defined. The first deliverables have been also concluded. The public ones will be available for the general public in the project website.



Picture 4 - Project initial planning

Consortium – Project partners

The UV-Marking consortium is formed principally by industrial partners. It covers the whole value chain of UV-laser marking with high level experienced entities. The consortium gather the principal industrial actors involved in marking: final user (BSH), laser developer (ROFIN), material and additives developers (ILVA, TORRECID, WIRTHWEIN, MERCK), a research centre expert on both material and laser giving scientific knowledge of the laser-marking process (ICMA), and a software developer expert on industrial integration software (U-Marq). The consortium has been built searching expert enterprises on each field, and it was needed a European approach to join all of them.

B/S/H/	BSH	→ Requirements and validation
rofin	ROFIN-SINAR	→ Laser developer
MERCK	Merck KGaA	→ Pigments developer
WIRTHWEIN AG	Wirthwein AG	→ Plastic molder
torrecid	Torrecid	→ Ceramic developer
ILVA	ILVA	→ Glass-ceramic manufacturer
icma	ICMA	→ Laser-Material Interaction research
U-MARQ	UMarq	→ Application software