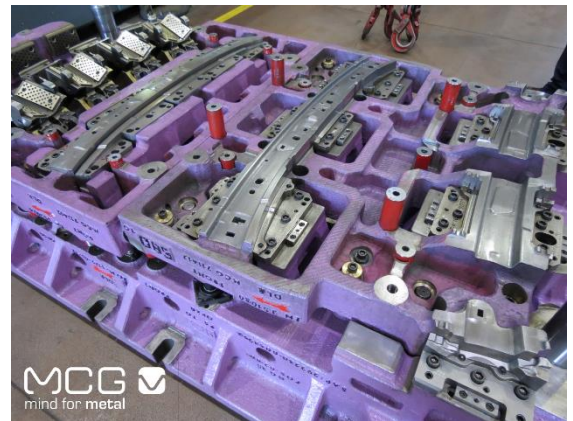


## MCG mind for metal Lightweight solutions in steel **ULTRAFORMING Ultra High Strength Steel**

The need for lighter products is governed by the major global challenges facing us today. The world's growing population must learn to share our planet's limited resources while agreeing on effective environmental measures.

Designing lighter products is an obvious and quick way to reduce demands on resources and increase energy efficiency, especially within the transport industry. The use of stronger steel grades allows for thickness reduction while improving some other properties like crush resistance. Thus, the increasing utilization of ultra high strength steels is one way to accomplish this weight reduction target.



Countries such as Germany, UK, France, USA, Korea and Japan are undertaking major national research and development initiatives to develop lightweight technologies. So, we can see that it is essential for Portugal at a national level to promote product and technology development on lightweight solutions. The current **Portugal 2020** framework addresses this kind of challenges and invites Portuguese companies to participate in it and by doing so, to close the technological gap as soon as possible.

So, in short, MCG's ability to develop world-leading expertise within lightweight technologies will be crucial for maintaining our future industrial competitiveness. And we accept this challenge with our greatest motivation!

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|-----------------------|---|
| <b>Project Goals:</b> | The ULTRAFORMING project presented by MCG mind for metal aims to develop and structure technical and scientific know-how in the elastic-plastic behavior and to research and develop a new methodology for the design of new tools to produce components and parts in Ultra High Strength Steels (UHSS).<br>The present project allows MCG to answer to the latest trends in the automotive industry, which is looking for the development of lightweight parts and components. |
| <b>Team:</b>          | Technical and management competencies that are needed to assure the on-time/on-target development of ULTRAFORMING are assured within the project team from MCG mind for metal and FCT-UNL (Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa).  |

**About MCG:** MCG is an end-to-end contract manufacturer of metal-based solutions and products. We deliver innovative insight in product design, manufacturing processes, and supply chain integration. Our customers are exposed to less risk, save money and time, and we have many success stories to prove it! MCG mind for metal, a Portuguese private owned company, adding more than 60 years of manufacturing experience. With a total turnover of 35 M€ (2016), 450 workers and 5 manufacturing plants, located in Carregado - PORTUGAL. Has an extensive experience in the automotive industry, mainly in European markets, but today operates with its 5 different business units, following a diversification strategy: MCG automotive, MCG tooling, MCG transportation, MCG laser and MCG solar.



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