



FLAMINGO

Fabrication of Lightweight Aluminium Metal matrix composites and validation In Green vehicles

Deliverable D 5.3  
Report on LPDC of Al-MMCs

Lead Beneficiary

ÖGI

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## Publishable Executive Summary

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Deliverable D5.3 is a report on low pressure die casting of Al-MMnCs parts. The objective of the task is to evaluate the casting process and costs for characterization of specimens and parts obtained through low pressure die casting. The report covers the topology optimisation of the steering knuckle, from the initial steel part to the optimized aluminum part produced by the LPDC process. Furthermore, the casting process of test specimens is described, and the mechanical properties of the resulting castings are determined. The influence of the heat treatment on Al-MMnCs castings is also analysed.

