



# Hollow Structural Aluminum Components in High Pressure Die Casting (Project AMAP P10)

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## Abstract

Lightweight design remains one of the main factors in reducing energy consumption and emissions, even in times of electrification. In the past the foundry industry primarily focused on weight reduction of the drive train and the chassis. This has changed. The Body-in-white offers potential for weight savings. Hollow die-cast aluminum structural components are promising, but they are not yet state of the art for high volume production. There are challenges to develop the process technology and core manufacturing technology. The presentation will give an overview of the following points based on a demonstrator part:

- Concept evaluation / Component design
- Demonstrator part
- Cores for High Pressure Die Casting
- Casting trials
- Outlook – Hollow Structural Components