



AM Gears – Additive manufacturing of metal-polymer gears for automotive transmissions

Motivation

With car electrification, new transmission concepts and performance requirements will emerge. Some of the most relevant aspects are the demand for more silent transmissions. Additive manufacturing represents a potential alternative process for gear manufacturing, enabling combination of materials and geometric freedom

Objective

Development of metal-polymer composite gears manufactured by additive manufacturing

Approach

Phase I: Manufacturing chain prove of concept
 Phase II: Performance evaluation and validation of the gears, being considered the phase of the AM gears proof of concept.

