Magnesium and Aluminium Gas Injection Technology for High Pressure Die Casting

Fact Sheet

Project Information

MAGIT
Grant agreement ID: 815971
Project website

Funded under
H2020-EU.3.
H2020-EU.2.3.
H2020-EU.2.1.

Start date
1 May 2018
End date
31 July 2018

Overall budget
€ 71 429

EU contribution
€ 50 000

Coordinated by
TIK - TECHNOLOGIE IN KUNSTSTOFF GMBH
Germany

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Objective

TiK – Technologie in Kunststoff GmbH (TiK) was founded in 2004. The company is Europe-wide and especially in the automotive sector known as specialist for plastic injection moulding and the use of gas injection technology. In recent years, the company developed to one of the most innovative companies in product and process development for plastic components.

The European automotive industry is faced with wide-ranging challenges in the common years. Especially electric mobility, lightweight design and intelligent use of materials is essential for current and future car development. In modern cars, many components are already produced in die casting, which is the most promising technology regarding cost-effective large-scale production. To extend the application possibilities of this technology, TiK developed a new and disrupting process, which enables the use of gas injection in aluminium or magnesium high pressure die casting and the production of components with hollow structures. Through this, significant cost savings can be achieved by the elimination of upstream and downstream manufacturing processes and weight can be reduced drastically by using lighter materials, but also new constructional possibilities for complex, hollow and thin-walled components with a load-adjusted design. By MAGIT, fluid-transporting components can be realized. These can be used for cooling of power electronics or temperature controlling of vehicle batteries.

The new technology primarily addresses the European die casting industry for non-ferrous metals, which is a continuously growing market with an expect CAGR of 3.8% in the common years. Besides the gas injection system, which will be direct sold by TiK, further system- and customer-specific services will be offered by the company. By the innovative technology, TiK expects to generate additional cumulative turnover of 20 million € and an increase in staff headcount of 23 in 2023.
Programme(s)

Topic(s)

Call for proposal

H2020-SMEInst-2018-2020-1

Funding Scheme

SME-1 - SME instrument phase 1

Coordinator

TIK - TECHNOLOGIE IN KUNSTSTOFF GMBH

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Siemensstrasse 21
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Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

EU contribution
€ 50 000

Contact the organisation

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