

InTrance Project

Component Marking and Control of the Drive System

Project period
08/2016 – 07/2018

Problem / Solution approach

At present, components of injection moulded products are marked in a downstream manufacturing processes. The object of research of this project is the integration of an in-situ produced individual marking technology. Different marking methods are investigated to apply an individual component marking to the component during the injection moulding process. In this regard, the planned structure is to be similar to a data matrix code or QR code. Other focus areas of the research include thermal simulations, coding of the relevant production data, software development and the integration of a functional pattern into a manufacturing tool.

Information on funding

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Keywords / Technologies

- Injection moulding
- Individual component marking
- In-situ
- Unique Device Identification (UDI)
- Software and hardware development

Project partners

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Project sponsor

Project sponsor of the
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Fig. 1: CAD model of a tool-integrated individual
component marking

Photograph: Formconsult Werkzeugbau GmbH