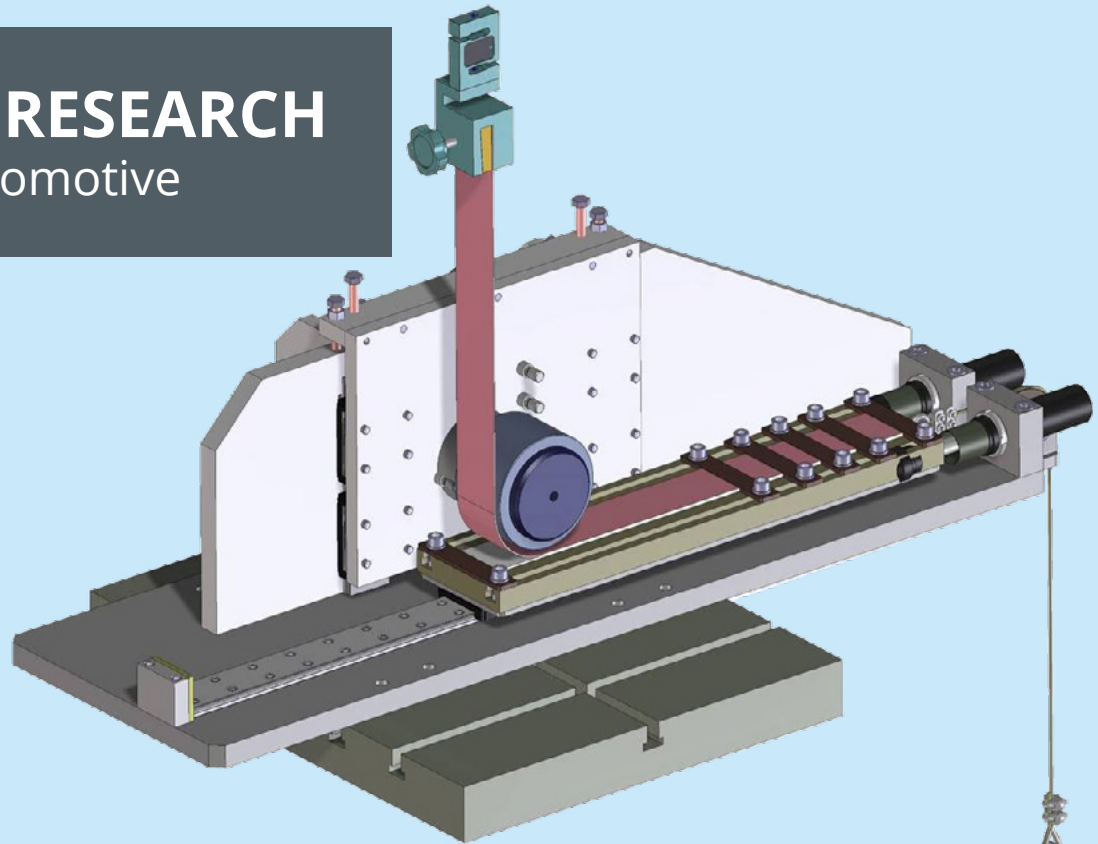


# ADHESION RESEARCH

Lightweight Automotive



# Brightlands Materials Center is a Materials Research Organisation based on the Chemelot Campus in Geleen, The Netherlands. The Lightweight Automotive Program focusses on Hybrid Thermoplastic Composites in overmoulding and recycling.

For adhesion studies a range of injection moulding tools are available with state of the art injection moulding machinery and advanced tensile test equipment as well as fracture energy-based test (see picture front side).

## 1.

Together with Technical University Twente and a group of companies Brightlands Materials Center works on adhesion of thermoplastic materials to metal. The major developments are: material modelling techniques to optimize weight, and reduce cost and development time, with a focus on adhesion between dissimilar materials.

## 2.

Within a consortium of companies Brightlands Materials Center works on modelling the adhesion of injection moulded compounds on thermoplastic composites in the so called Fieldlab Thermoplastic Composites and is started with support from the EU Interreg program. Here SME's as well as multinationals

work together to strengthen Thermoplastic Composites know-how, collaboration and infrastructure in The Netherlands.

## 3.

With the Holst center and IMEC, Brightlands Materials Center researches the overmoulding of electronic components. The adhesion behavior of thermoplastic composites on electronic components is an import area of research.



## Partners:



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