

Our origin

Production Engineering is a major research area at RWTH Aachen University



2014 foundation of
the chair PEM

+100 employees and
scientists

2.700 m² of office and
production area

10 research groups
for e-mobility

Our origin

RWTH Aachen University exploits strong research networks and the intellectual curiosity of its staff to address bold scientific questions, transfer forefront knowledge and drive innovative discoveries that impact global challenges.

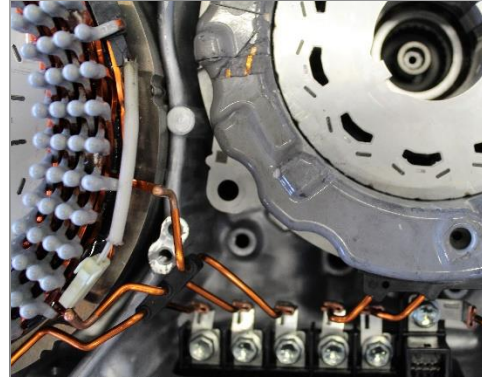
Our core topics

We offer product and production solutions for the electric drivetrain

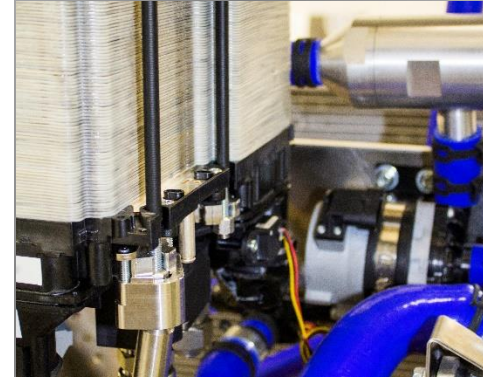
Key components



Battery



Electric Drive



Hydrogen Technologies

Integration



Commercial Vehicles

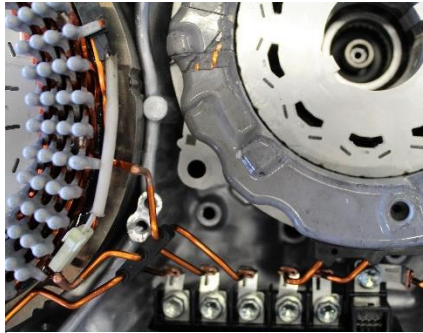
We develop pioneering **products** for sustainable manufacturing of electrified drivetrains



We focus on **production** processes and innovations for a cost-efficient realization of these products

Our core topic “Electric Drive”

Helping shape the production of todays and tomorrows electric drives



Electric Drive

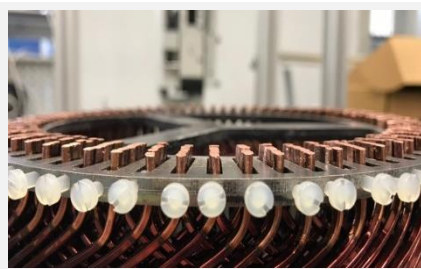


SCALE-UP
E-DRIVE

Our long-term mission

We are helping to make the production of electric drives **cost-efficient, flexible in terms of variants, future-oriented and sustainable**, and are **working on challenges along the entire value chain** - from the **semi-finished product** to the finished **e-drive** and from the **individual process** to the **holistic consideration** of interdependencies in the process chain.

Our focus activities within the research group “Electric Drive Production”



Prototyping & validation

- Assembly functional prototypes in small batches
- Parameter development and test execution
- Market comparison of components and processes



Production planning and optimization

- Production (concept) planning & requirements management
- Process and layout planning
- Cost analysis and planning
- Value chain analysis



Ramp-Up support & Root Cause analysis

- Supplier Management
- Trouble shooting, root cause and interdependency analysis
- Coordination of plant modifications



Knowledge transfer & training

- Technology training using state of the art infrastructure
- Remote or onsite seminars ranging from basics to & in-depth process know how