

**Research & Development  
High-Tech Engineering  
Innovation and Research Support**



## RESEARCH AND PRODUCT DEVELOPMENT

HET Engineering (High Performance Railway and Transportation Technology) is a high-tech R&D competence center with the following main fields of business:

- Solutions for intermodal transport of goods
- Special rail and transportation vehicles
- Innovative container handling systems
- Charging/discharging systems for bulk material
- Special vehicles for forestry and agriculture
- Integration of energy recuperation systems



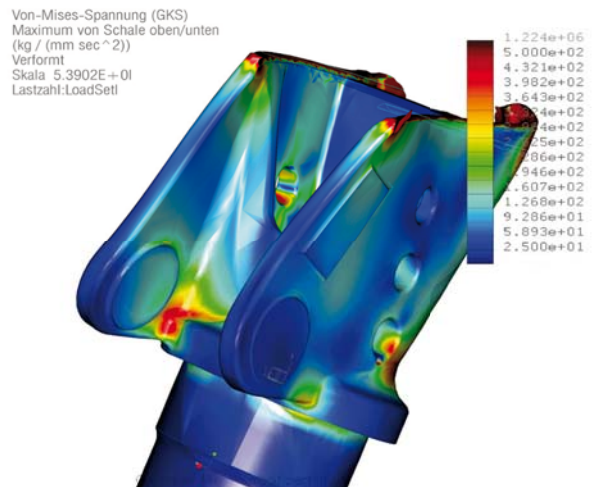
### Reference projects

- Development of a hybrid/fuel cell driven transport vehicle to be used within city centers
- Design of measurement rail cars with sophisticated motors (hybrid drives)
- Design of mobile and fixed container handling systems with advanced crane systems
- Development of an emission-free discharging system for bulk material (steel industry)
- Integration of energy recuperation systems into cranes and drives
- Design of mobile containers for the generation of energy from biomass

## HIGH-TECH ENGINEERING SERVICES

In addition to extensive R&D, HET offers sophisticated engineering services. By integrating our know-how in analysis and simulation, parts can be optimized with regard to strength and manufacturing costs. In this way we contribute to the lasting economic success of our customers.

- CAD design of parts and creation of manufacturing instructions
- Design consulting and part optimization
- Finite elements analysis
- Analysis of non-linear workloads
- Design automation
- Analysis of fatigue strength



### Reference projects

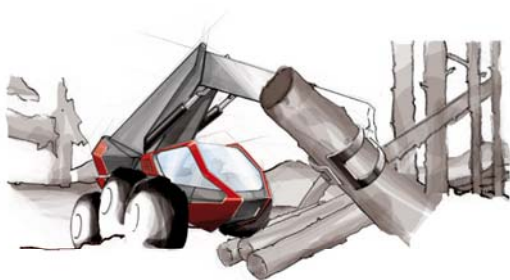
- Design of rail measurement and maintenance cars
- Design of turbines including fluid mechanics and oscillation analysis
- Development of special extraction units for the steel industry
- Design and optimization of cranes and forestry vehicles

## INNOVATION AND RESEARCH SUPPORT

---

By outsourcing R&D tasks to a specialized company as HET, optimum efficiency can be ensured. HET has a long-term and close collaboration with R&D institutions, universities and knowledge carriers. Using this network of different fields of technology and knowledge provides high benefits for our customers.

- Product analysis
- Development of innovation starting points
- Academic contribution by collaboration with universities
- Formal and technical creation of the R&D application
- Implementation and reporting
- Finalization, final reporting



## ABOUT US

---

HET Engineering was founded in 2006 as a two-man firm. Today the company has about 25 highly qualified employees (90% engineers) as well as an extensive number of reference projects and international industry customers.

By combining internal knowledge and networking to universities and R&D institutions, HET Engineering is an interdisciplinary competence center. The company holds licenses for state-of-the-art and specialized engineering tools, operated by experienced engineers. This provides the basis for the success of the company.

- DIN EN 15085-2 certified (welding of rail vehicles)
- Member of association: Consulting Engineers







**HET Hochleistungs- Eisenbahn- und  
Transporttechnik Entwicklungs-GmbH**

**Eisenhutstrasse 3  
5202 Neumarkt a.W. | Austria  
Tel. +43 6216 21136-0  
Fax +43 6216 21136-4**

[office@het-engineering.com](mailto:office@het-engineering.com)  
[www.het-engineering.com](http://www.het-engineering.com)

