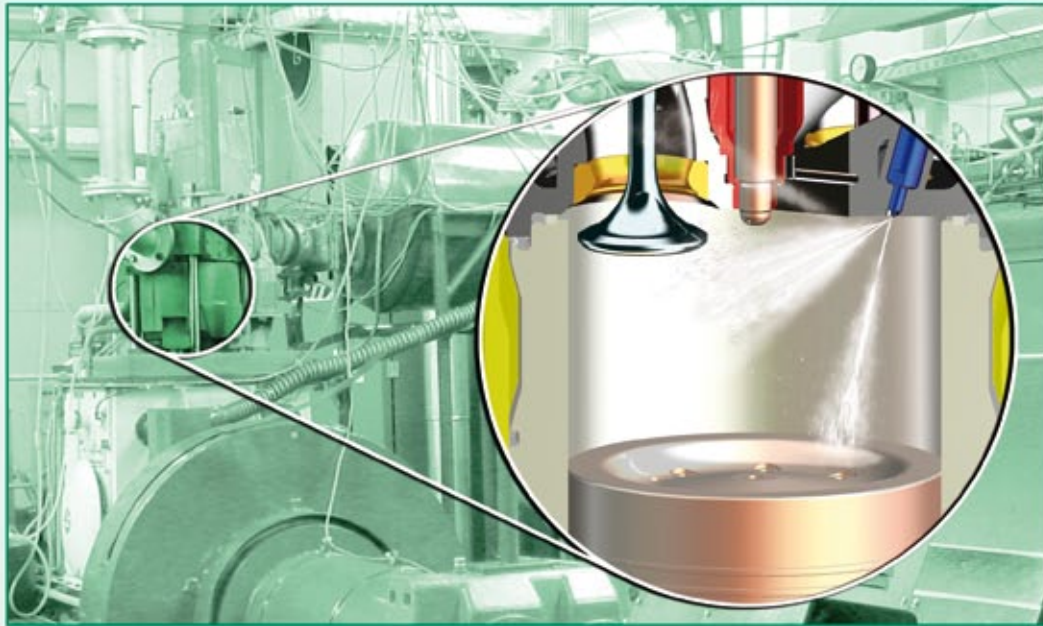


**Von der Idee ...**

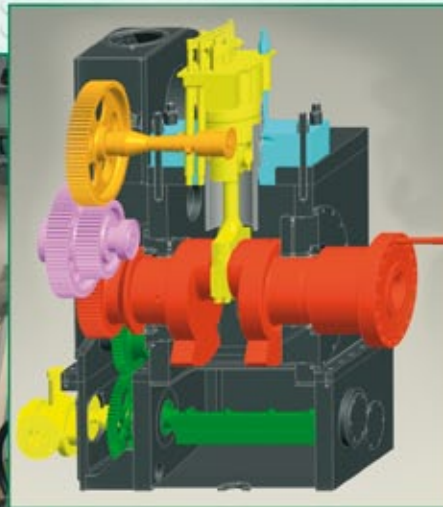
**From the idea ...**



**... to final product reliability**

**... bis zur Anwendungsreife**

## Motorentechnik Engine Technology



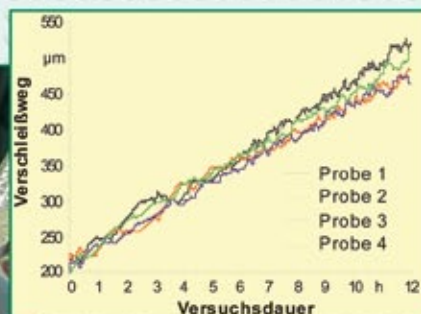
- Dieselmotoren
- Gasmotoren
- Vielstoffmotoren
- Diesel Engines
- Gas Engines
- Multi-fuel Engines

## Energiesysteme Energy Systems



- Blockheizkraftwerke
- Erneuerbare Energien
- Co-generation Systems
- Renewable Energies

## Maschinen- und Gerätetechnik Machine and Equipment Engineering

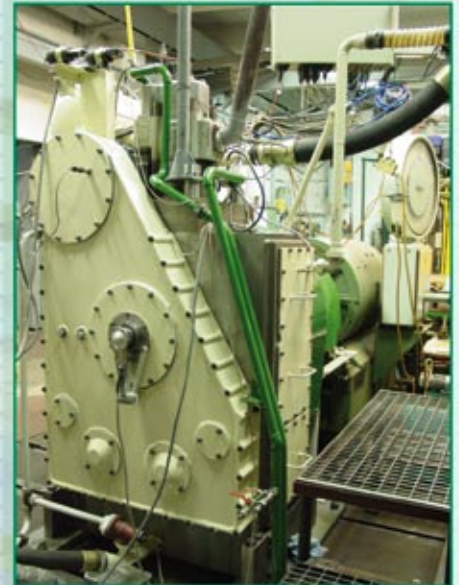
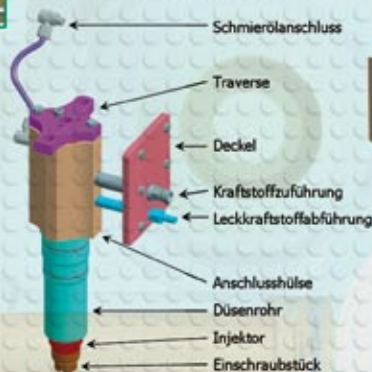
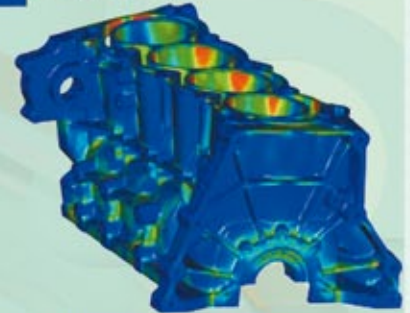
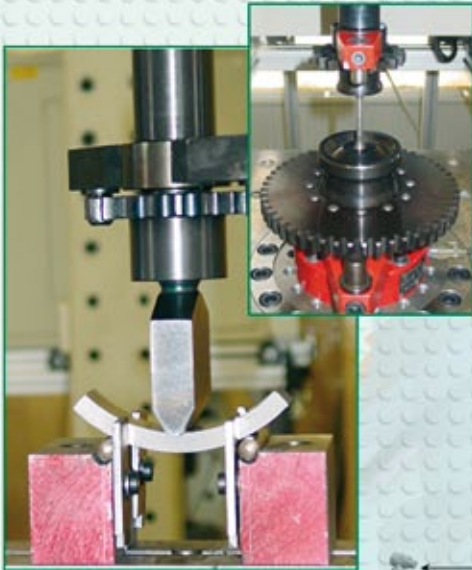
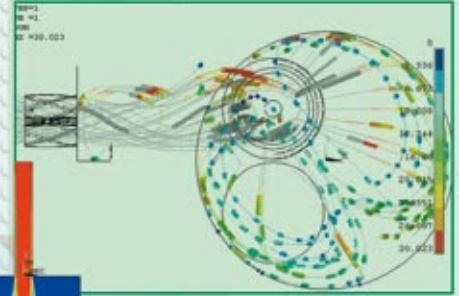
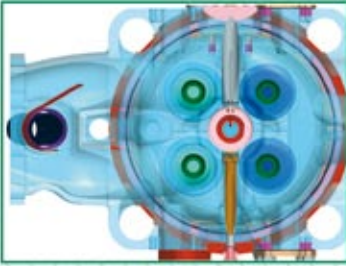


- Sondermaschinen
- Sondermesstechnik
- Special Purpose Machines
- Special Measuring Techniques

# WTZ Roßlau

## Forschung und Entwicklung

- Motorenforschung
- Konstruktion und Berechnung
- Messung, Erprobung, Prüfung



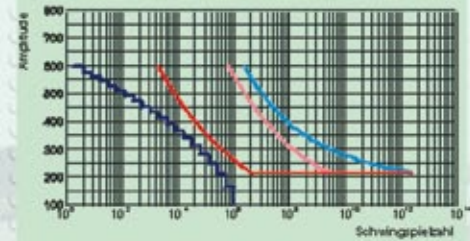
## Research and Development

- Engine Research
- Design and Simulation
- Testing, Measuring, Validation

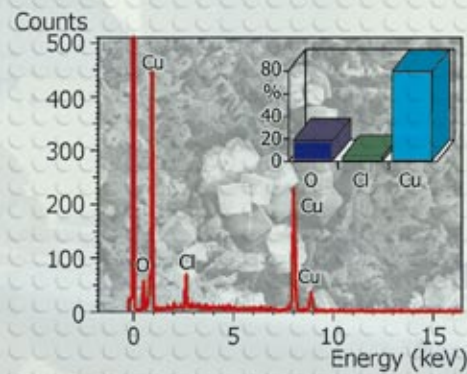


## Prüflabore

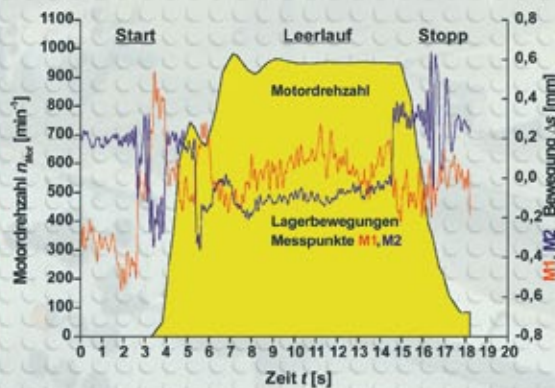
- Bauteillabor
- Werkstofflabor
- Umweltlabor
- Motorenprüfstände



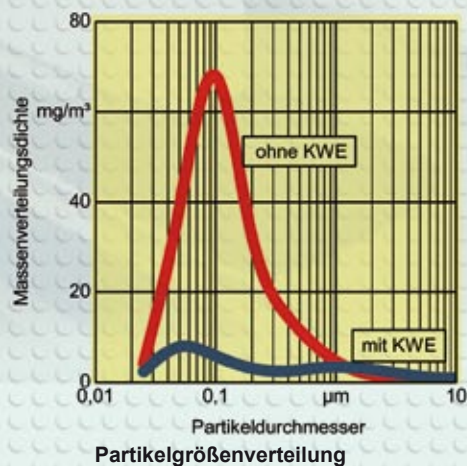
Wöhlerkurve



EDX-Analyse

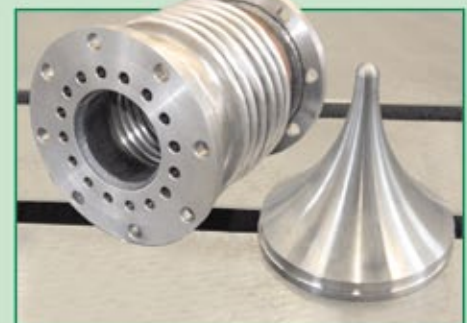


Lagerbewegungen, Motor-Start-Stopp



Partikelgrößenverteilung

## Musterbau Prototype Production



## Test Laboratories

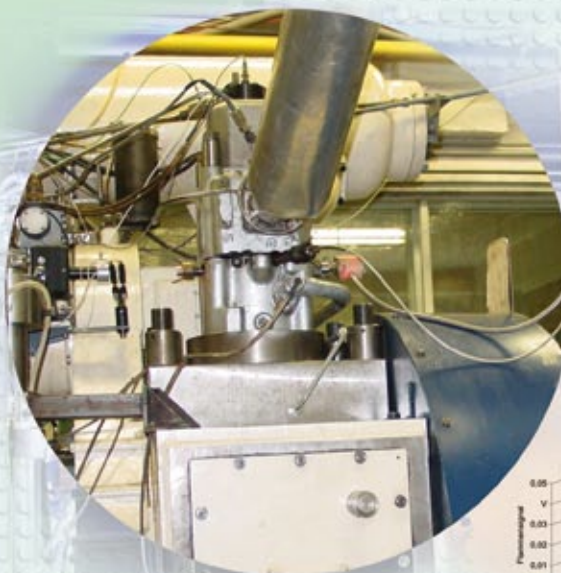
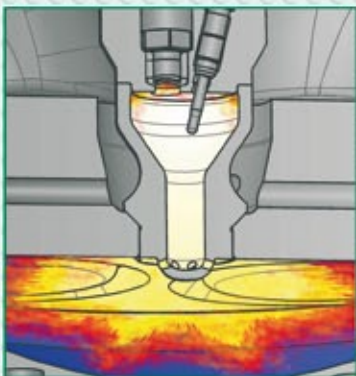
- Component Laboratory
- Materials Laboratory
- Environmental Laboratory
- Engine Test Cells

## Referenzen

- ➔ Auslegung und Erprobung von Dieselgas- und Ottogasmotoren
- ➔ Konstruktion und Berechnung hochbelasteter Bauteile in Verbrennungsmotoren
- ➔ Entwicklungen an hochaufgeladenen Mittelschnellläufern für Schweröl
- ➔ Entwicklung und Bau von 1-Zylinder-Forschungsmotoren
- ➔ Entwicklung und Bau von Sondermaschinen und Prüfeinrichtungen
- ➔ Multispektralpyrometrie zur optischen Brennraumuntersuchung
- ➔ Prüfstandsläufe Schweröl-, Diesel-, Gas- und Pflanzenölmotoren
- ➔ Schadensgutachten

## References

- ➔ Design and testing of diesel engines and compression ignition and spark ignition gas engines
- ➔ Design and simulation of high-loaded engine components
- ➔ Developments at highly supercharged medium-speed heavy fuel engines
- ➔ Development and manufacturing of single-cylinder research engines
- ➔ Development and manufacturing of special purpose machines and test equipment
- ➔ Multi-spectral pyrometry for combustion chamber investigation
- ➔ Test bed runs for heavy fuel, diesel, gas and vegetable oil engines
- ➔ Expert damages report



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## Kunden/Partner

- ➔ Motoren-, Automobil- und Schienenfahrzeugindustrie
- ➔ Zulieferer/Engineering-Dienstleister
- ➔ Einrichtungen der öffentlichen Hand
- ➔ Hochschulen und Forschungseinrichtungen

## Customers/Partners

- ➔ Engine, automotive and railway vehicle industries
- ➔ Suppliers and engineering companies
- ➔ Public authority institutions
- ➔ Universities and research institutes



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