

About this organisation

Since 1985 Dr.-Ing Jobst Kerspe has provided engineering services and solutions in the field of supported vacuum insulations for thermal applications with the company TEB. With 35+ years of experience in the field of vacuum insulation, TEB supports clients in the conception, prototyping, knowledge transfer and small series production of new applications of the supported vacuum insulation

Solution provider for supported vacuum insulation enclosures with excellent, adjustable thermal insulation characteristics ($\lambda < 0,005 \text{ W/ m.K}$), high mechanical strength, chemical resistance, suitable for high temperature ranges (below -200 to $> +800^\circ\text{C}$). Optimal for usage as battery enclosures for temperature sensitive cell technologies like Lithium-Ion for optimized temperature conditions in charging and discharging cycles. One example application would be for the enclosure to act as battery case and structural element at the same time, leading to overall weight reduction with higher mechanical strength than conventional battery enclosures and higher battery efficiency (+25%). Optimal for usage as battery enclosures, temperature insulation, cryogenic and heating applications, long term (heat)energy storage. Applications in aerospace, mobility, transport, residential, heating, energy storage etc. We provide engineering & consulting, prototype conception & knowledge Transfer/Trainings

Schubertstraße 23
69256 Mauer
Baden-Württemberg
Germany
www.vakuum-isolierung.de/en

Main areas covered Supported Vacuum Insulation, Consulting and Development Services, Conception and Prototyping, Energy saving consulting, insulation enclosures

Infrastructure

Certifications

Keywords vacuum insulation, supported vacuum insulation, battery housing, battery enclosure, temperature management

Memberships



Organisation type

Small or medium-sized enterprise

Sectors

No specific sector

Employees

Up to 9

Turnover

Up to €2m

Funding

n/a

Overview of lightweighting expertise

	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting Consulting, Testing and trials, Engineering, Prototyping, Technology transfer	✓	✓	
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
Plant construction & automation Plant construction, Automation technology, Others (Hocheffiziente Temperatur-Isoliergehäuse)	✓	✓	
<i>Recycling technologies</i>			
Manufacturing process			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
Forming Compression moulding, Deep-drawing	✓	✓	
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<i>Textile technology</i>			

Overview of lightweighting expertise

	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites			
Laminates	✓	✓	
<i>Fibres</i>			
<i>Functional materials</i>			
Metals			
Steel	✓	✓	
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

Mr Dr. Jobst Kerspe

Geschäftsführer

kerspe@vakuum-isolierung.de