

T. Michel Formenbau GmbH & Co. KG

Developments particle foam components and tool making

About this organisation

We develop process technologies, customer applications, moulds and transfer the processes into serial production for and customers in the plastics industry. In our own development center we learn and train customers in particle foaming.

All with and around particle foam. Lightweight potential of the future with density from 12g/l to 300g/l. Environmentally friendly and sustainable expanded synthetic materials. (for example E-PP , E-PC , E-PET...) Monocomposite systems from PP to EPP.

In der Zeil 10
56355 Lautert
Rhineland-Palatinate
Germany
www.michel-form.de



Organisation type

Small or medium-sized enterprise

Sectors



Employees

10 up to 49

Turnover

€2m - €10m

Funding



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Main areas covered	Lightweight solutions Particlefoam, Particle Foam Technological Center, Particle foam development, lightweight systems , Mould manufacturing
Infrastructure	Pilotfabrick for particle foaming
Certifications	ISO 9001
Keywords	Particle Foaming, Monocomposite, Hybrid lightweight design, Hybrid light weight
Memberships	

Overview of lightweighting expertise

	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Tools and moulds		✓	✓
Services & consulting Consulting, Testing and trials, Engineering, Prototyping, Simulation, Technology transfer		✓	✓

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Overview of lightweighting expertise

	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts		✓	✓
Functional integration Media conductivity, Sensor technology, Material functionalisation		✓	
<i>Measuring and testing technology</i>			
Modelling and simulation Loads & stress, Optimisation, Processes, Materials		✓	✓
<i>Plant construction & automation</i>			
Recycling technologies Recycling		✓	

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Overview of lightweighting expertise

	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing		✓	✓
Coating (surface engineering) Galvanising, Powder coating			✓
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
Primary forming Others (-Foam / particle foam foaming - Combination foaming Injection molding / particle foam foaming -Combination foaming PUR / particle foam foaming)		✓	✓
Processing and separating Drilling, Turning, Milling, Electrical discharge machining, Sawing, Grinding, Cutting, Others (Lasertexture)		✓	✓
<i>Textile technology</i>			

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Overview of lightweighting expertise

	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
Cellular materials (foam materials) Closed-pore, Open-pore, Others (Particle foam Popcorn Paper)		✓	
Composites Others (Monocomposite plastics)		✓	✓
<i>Fibres</i>			
<i>Functional materials</i>			
<i>Metals</i>			
Plastics Thermoplastics, Others (Particlefoam PUR Foam)		✓	✓
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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