

# 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  
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Rhineland-Palatinate  
Germany  
[www.michel-form.de](http://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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## About this organisation

**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 |
|---|----------|-------------|------------------------|
| <b>Offer</b>  |          |             |                        |
| <b>Products</b><br>Parts and components, Tools and moulds   |          | ✓           | ✓                      |
| <b>Services &amp; consulting</b><br>Consulting, Testing and trials, Engineering, Prototyping, Simulation, Technology transfer |          | ✓           | ✓                      |

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

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

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

## Contacts

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