

## Step one first!

Often you unconsciously determine how your idea will be developed and implemented right at the beginning of a project. Meaningful alternatives for design and implementation are often not recognized and can no longer be considered at a later point in time.

The economic independence of the partners of our competence network allows a free view of your task. The implementation of your project and the selection of the associated partners are free. This guarantees a tailor-made project flow with highest flexibility.

With you we combine the appropriate competence modules from consulting, design and development to implementation. Thus you always remain in control of the process: All contents of the product development remain under your control and your property. Our services include the entire development process:

- Consultation
- Product Positioning (Strategy)
- Feasibility Studies (costs, technology) - Implementation Strategy (procedure)
- Design/Draft - Development
- Realization

Please contact us!

## OUR SERVICES:

### 5-AXIS MILLING MACHINING

With our modern CNC machining centers, we are able to manufacture components and tools machined according to your data 3-5 axes. Materials: plastic, aluminium, steel, copper, brass,... Component sizes up to several meters in size

<http://www.zimatec.de/5-achs-fraesbearbeitung-content.html>

### Component development

(CFRP/GFRP) for the substitution of metal components

<http://www.zimatec.de/5-achs-fraesbearbeitung-content.html>

### Design Thinking

Design Thinking is an approach that leads to solving problems and developing new ideas. The goal is to find solutions that are convincing from the user's point of view.

<http://www.paulmartin.design>

### Extrusion dies

<http://www.sls-kunststoffprofile.de>

### Construction in conformity with production and standards

of cast and injection-moulded components  
of gauges and fixtures

<http://www.zimatec.de/5-achs-fraesbearbeitung-content.html>

### Constructing

Construction in SolidWorks, Creo2, DesignX

<http://www.zimatec.de/konstruktion.html>

### Laminate components and tools

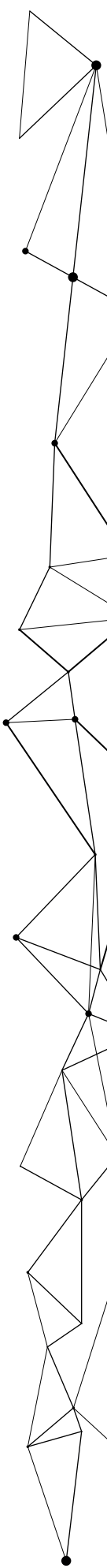
made of CFK/GFK in resin infusion technology

[info@zimatec.de](mailto:info@zimatec.de)

### Model and tool design

for the production of cast components (aluminium, steel, castings) for the production of injection- moulded articles (1K, 2K)

<http://www.zimatec.de/5-achs-fraesbearbeitung-content.html>



### **Mobile 3D Scanning/ Measurement**

With mobile ATOS Triple-Scanner Mobile and high-precision 3D measurement of component, tool or system. Photogrammetry, target/actual comparison, EMPB (initial sample test report)

<http://www.zimatec.de/mobile-messtechnik.html>

### **GOM Atos" optical measuring method**

High-precision and non-contact measurement of objects and tools for quality assurance as well as optimization of tools and processes.

Application areas stationary or mobile at the customer's site. Creation of target/actual comparisons in false color display. Measurement reports for complex components in the ZSB.

<http://www.zimatec.de/mobile-messtechnik.html>

### **Product Design**

Our range of services extends from project research through to classic fast sketch phase to the finished developed product.

<http://www.paulmartin.design>

### **Product Graphics**

User interface, product graphics and brand logo are visual components of the product to be designed.

<http://www.paulmartin.design>

### **Product Presentations**

From high-quality concept sketches to photorealistic renderings and professional animations.

<http://www.paulmartin.design>

### **Soft Products**

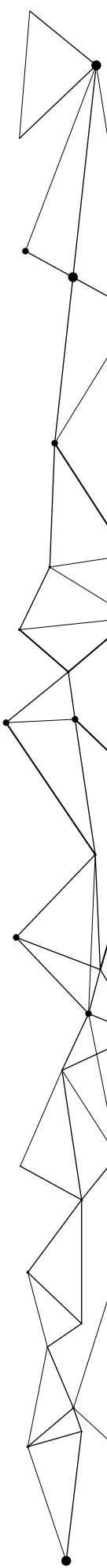
Especially the connection between plastic parts and textile parts. Components require an understanding of both: The material and manufacturing world. In addition to cutting and sample production we can also provide assistance with the procurement of materials.

<http://www.paulmartin.design>

### **Packaging**

Development of simple clever design solutions to complex packaging that is part of the overall concept and part of the brand strategy.

<http://www.paulmartin.design>



### **Rapid prototyping**

Selective Laser Sintering (SLS) "Material Polyamide

Stereolithography (SLA) "Material Photopolymer

Fused Deposition Modelling (FDM) "Material ABS, PC"

Metal sintering (DMLS) "Material aluminium and steel".

Vacuum casting (vacuum) Material Plastic "PU

Metal casting "Material Al, Fe"

Listed material extracts for a wide range of applications and properties.

<http://www.zimatec.de/rapid-prototyping.html>

### **Reversed engineering**

Scan data preparation (STL) of objects, components and tools for further processing in CAD systems. Suitable for the reconstruction of older or modified objects, adaptation of CAD data from tool changes, for further use in 3D printing technologies, for use in virtual reality environments.

<http://www.zimatec.de/reverse-engineering.html>

### **Tool construction**

in Germany

Production of moulds and tools from various materials using CAD-CAM systems, in particular large moulds. Areas of application: Moulds, laminate moulds, moulding tools, injection moulding, etc....

<http://www.zimatec.de/5-achs-fraesbearbeitung-content.html>

in Europe and East Asia

<http://www.kunststoffberatung.de>

### **Machining**

Of wood, plastics, aluminium and steel on a contract basis on modern CNC systems up to 6000 x 3000 x 1700 mm

<http://www.zimatec.de/5-achs-fraesbearbeitung-content.html>

