

## About this organisation

### Machine translation

This profile has been machine-translated based on data provided in German.

Symate GmbH - a spin-off of the Institute for Machine Tools and Control Engineering at the Technical University of Dresden - develops and markets the browser-based software platform Detact® for integrated technology data management. The software was developed for engineers who want to digitise, visualise and analyse complex technical processes in order to create process transparency and expand engineering knowledge.

Detact® actively supports manufacturing companies in the optimisation of sampling and start-up processes for new products and the significant reduction in the cost of error analysis in ongoing production. Detact® automates data preparation in complex manufacturing processes and in test series and can establish a direct connection to a large number of heterogeneous data sources. We use the system to support development and manufacturing processes for composites at renowned research institutes and companies.

Kraftwerk Mitte 7  
01067 Dresden  
Saxony  
Germany  
[www.detact.de](http://www.detact.de)



#### Organisation type

Small or medium-sized enterprise

#### Sector



Others: Informationstechnologie (IT)

#### Employees

10 up to 49

#### Turnover

n/a

#### Funding

n/a



## About this organisation

<b>Main areas covered</b>	Artificial intelligence, Process monitoring, Predictive maintenance, Quality Prediction, Control centre
<b>Infrastructure</b>	Detact®, Detact® Connect, <a href="http://www.detact.de">www.detact.de</a>
<b>Certifications</b>	
<b>Keywords</b>	Process monitoring, Predictive maintenance, Big Data, Production control centre, Artificial intelligence
<b>Memberships</b>	Composites United e. V., Wir Gestalten Dresden e. V.

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<b>Products</b> Software & databases	✓	✓	✓
<b>Services &amp; consulting</b> Consulting, Testing and trials, Maintenance and repair		✓	✓
<b>Field of technology</b>			
<i>Design &amp; layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<b>Modelling and simulation</b> Optimisation, Processes, Materials		✓	✓
<b>Plant construction &amp; factory automation</b> Automation technology			✓
<i>Recycling technologies</i>			

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Manufacturing process</b>			
<b>Additive manufacturing</b> 3D printing, Deposition welding, Electron beam melting, Laminated object manufacturing (LOM), Fused deposition modeling, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS), Stereolithography			✓
<b>Coating (surface engineering)</b> Galvanising, Painting, Plasma process, Powder coating, Hot dipping, Sputtering			✓
<b>Fibre composite technology</b> Fibre spraying, Filament winding, Casting (concrete), Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Spinning (concrete), Spraying (concrete), Vacuum infusion			✓
<b>Forming</b> Bending, Impact extrusion, Compression moulding, Forging, Extrusion moulding, Stretch forming, Thermal converting, Deep-drawing, Fluid active media based forming, Rolling			✓
<b>Joining</b> Clinching, Hybrid joining, Adhesive bonding, Soldering, Sewing, Riveting, Screwing, Welding			✓
<i>Material property alteration</i>			
<b>Primary forming</b> Extrusion, Casting, Pultrusion, Sintering, Injection moulding			✓
<b>Processing and separating</b> Drilling, Turning, Milling, Electrical discharge machining, Honing, Sawing, Shearing/punching, Grinding, Cutting			✓
<b>Textile technology</b> Fibre manufacturing, Braiding, Yarn & roving production, Preforming, Knitting, Textile surface treatment and finishing, Nonwoven & mats production, Weaving, Knitting, laid web			✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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Mr Dr. Martin Juhrisch

Managing Director

[martin.juhrisch@symate.de](mailto:martin.juhrisch@symate.de)