

# SHORT PROFILE

## BUSINESS UNIT COMPOSITE



Number of employees	100
Entered plastic technology sector	1957
Engineering	<ul style="list-style-type: none"> <li>» Material selection</li> <li>» Composite correct design</li> <li>» FEM calculation</li> <li>» Mould fill simulation calculation</li> <li>» Initial sampling completely in-house</li> </ul>
CAD software	» SolidWorks
Number of injection moulding machines	45
Current clamping forces up to	3,200 kN
Component weights	from 0.01 g to approx. 650 g
Processing methods	<ul style="list-style-type: none"> <li>» Prototypes (in original material and as 3D printing parts)</li> <li>» Micro injection moulding &amp; compact injection moulding</li> <li>» Precision injection moulding, fully and semi-automatic</li> <li>» Multi-component technology (2K and 3K)</li> <li>» Thermoplastic/Elastomer injection moulding (P &amp; R technology)</li> <li>» Insert/outsert technology (metal insert parts)</li> <li>» In-Mould Labelling (IML)</li> </ul>
Subsequent processes	<ul style="list-style-type: none"> <li>» Ultrasonic welding</li> <li>» Painting of plastic parts and tampography</li> <li>» Fully-automatic, semi-automatic and manual assembly of components</li> <li>» Tempering</li> <li>» Calibration and adjustment</li> <li>» Assembly and packaging</li> </ul>
Materials processed	<ul style="list-style-type: none"> <li>» More than 180 different thermoplastics from PVC to PEEK</li> <li>» Thermoplastic Elastomers</li> <li>» Elastomers</li> <li>» Carbotecture®</li> </ul>
Equipment	<ul style="list-style-type: none"> <li>» More than 700 active tools with inserts: producing more than 1,000 products</li> <li>» In-house tooling design</li> <li>» In-house tooling manufacture and maintenance</li> </ul>
Series production	<ul style="list-style-type: none"> <li>» From prototype series of 10 parts up to large series with more than 30 million parts/year</li> <li>» 100% in-line control utilising camera observation systems</li> <li>» Process documentation acc. to VDA standard</li> </ul>
Quality control	<ul style="list-style-type: none"> <li>» Certified acc. to VDA 6.1, ISO 9001:2008 and ISO 14001</li> <li>» Sampling acc. to VDA standard</li> <li>» In-house testing and analysis technology (e.g. DSC analysis device, 3D profile projector and 3D measuring machine)</li> </ul>
Logistics	<ul style="list-style-type: none"> <li>» Kanban, RDT (Remote Data Transmission), VMI (Vendor Managed Inventory), consignment warehouse etc.</li> </ul>
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