

SHORT PROFILE

BUSINESS UNIT COMPOSITE



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