Injection Moulding

Precision at the highest level.
Global consulting, development and production.

**Consulting**
- Material selection
- Design and function consulting
- Requirements analysis
- Project management

**Construction & development**
- 2D and 3D CAD construction
- Modeling & Prototyping
- Component analysis
- Process & filling simulation
- Documentation

**Toolmaking, production & assembly**
- Global toolmaking
- Small to large series
- Global production
- Global assembly

**Materials**
- Standard, engineering and high-performance plastics
- Combination with fiber composites
- Regranulates
- 2K and 3K parts

**Processes**
- Standard injection moulding
- High precision injection moulding
- Hybrid injection moulding
- MuCell injection moulding

In line with the trend: from lightweight construction to sustainability.

**MuCell – small enhancement with huge impact.**

Our special MuCell injection moulding technique describes a physical foaming process of thermoplastics in which nitrogen or carbon dioxide is injected under high pressure into the plastic melt.

Lightweight construction with system.

**BENEFITS**

**Environmental**
- Reduced CO2 emissions through lighter components
- Reduction in density
- Weight reduction of up to 10 per cent
- Sustainability through lower consumption of petroleum-based raw materials

**Economical**
- Cost benefits through material savings of up to 10 per cent
- Reduction of machine clamping forces
- Over 10 per cent faster cycle times

**Qualitative**
- Higher dimensional stability
- Reduction/Elimination of sink marks
- Minimisation of distortion by eliminating inner tension

High flexibility for a perfect solution.

**Hybrid products**

We bring together the most diverse components.

**Combination of procedures**

We offer you customised complete solutions.
Injection Moulding

The Schlemmer Group is a globally operating technology expert focusing on the development and production of industrial solutions. Drawing on 60 years of experience in cable protection, the Group has evolved into a leading and comprehensive value added supplier. In addition to the traditional business segment Automotive, the Schlemmer Group operates in numerous other industries with its business segments Industry and Appliances.

Applications

<table>
<thead>
<tr>
<th>Crankcase ventilation</th>
<th>Control housing</th>
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</thead>
<tbody>
<tr>
<td>Application: Powertrain</td>
<td>Application: Brake booster</td>
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<tr>
<td>Combination of our manufacturing processes injection moulding, extrusion, thermoforming and assembly.</td>
<td>Central control valve of a brake booster.</td>
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<th>Pump holder</th>
<th>Stator</th>
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<td>Application: Fuel delivery unit</td>
<td>Application: Electric drive</td>
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<tr>
<td>Sound damping hanging of fuel pump.</td>
<td>Coil carrier for electric motors.</td>
</tr>
</tbody>
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Do you have any questions?
Visit our website at www.schlemmer.com or send an e-mail to info@schlemmer.com