

Injection Moulding

**Precision at the highest level.**



Schlemmer Group

[info@schlemmer.com](mailto:info@schlemmer.com)  
[www.schlemmer.com](http://www.schlemmer.com)

Schlemmer. Your injection moulding expert worldwide.

Over 200 development engineers

Global development centres 24/7

Over 27 production sites

Over 300 injection moulding machines

International project teams

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



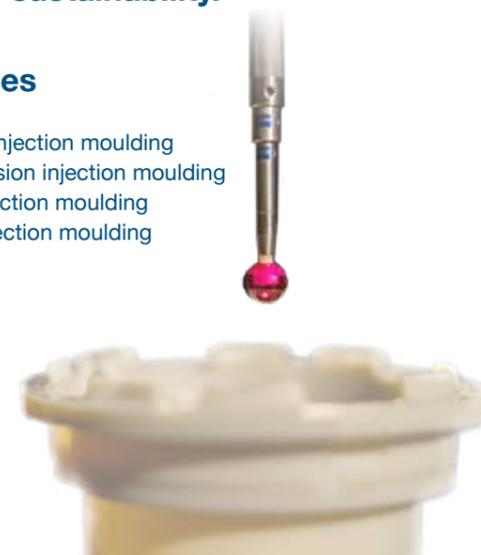
In line with the trend: from lightweight construction to sustainability.

### Materials

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

### Processes

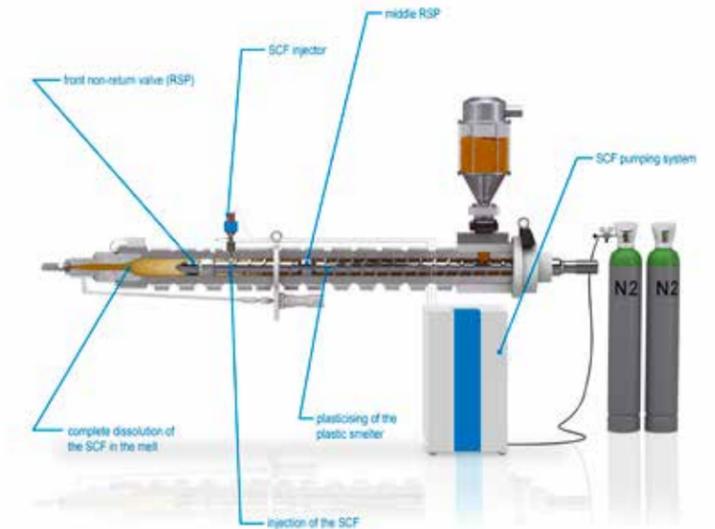
- Standard injection moulding
- High precision injection moulding
- Hybrid injection moulding
- MuCell injection moulding



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

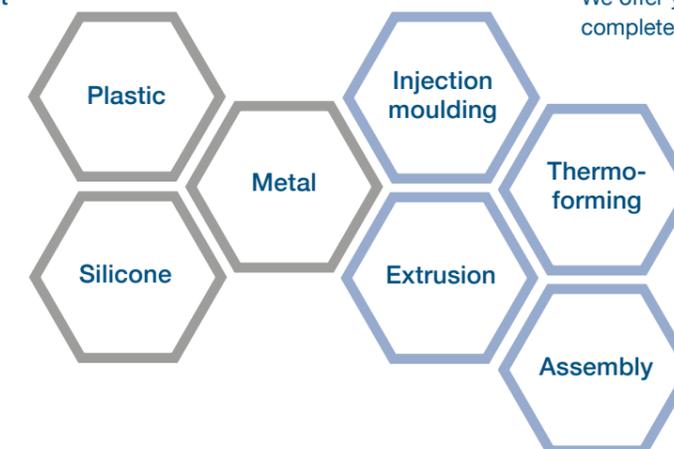
#### Qualitative

- 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

## Applications



### Crankcase ventilation

Application: Powertrain

Combination of our manufacturing processes injection moulding, extrusion, thermoforming and assembly.



### Control housing

Application: Brake booster

Central control valve of a brake booster.



### Pump holder

Application: Fuel delivery unit

Sound damping hanging of fuel pump.



### Stator

Application: Electric drive

Coil carrier for electric motors.

The **Schlemmer Group** is a globally operating technology expert focussing 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.



### Do you have any questions?

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or send an e-mail to  
[info@schlemmer.com](mailto:info@schlemmer.com)

