

SPRITZGUSS + FORMENBAU ENGINEERING + PRODUKTION + MONTAGE

Engineering

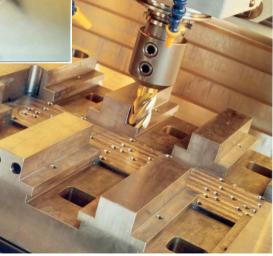
- •Design and engineering
- •Prototyping
- •Project management

Production

- •Customer specific injection moulding parts
- •Taylor made connectors
- Micro injection moulding
- •Thin walled parts
- •Multi component injection moulding
- •Coil bobbins
- Mechatronic components
- •Insert- und outsert-injection moulding
- Precision moulds

Assembly





Johannes-Kepler-Str. 4 - 74354 Besigheim - Tel.: 07143 8 13 13 -0

Who we are



SPRITZGUSS + FORMENBAU ENGINEERING + PRODUKTION + MONTAGE

- Mid-sized injection moulding company
- Founded in 1979 by Winfried Rosenberger
- Own toolshop
- 65 employees
- Asessed acc. to DIN EN 9001:2000 and ISO/TS 16949:2002

•Turnover in 2011: 10 Mio €



Our company in Romania



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S.C. Rosenberger ROM S.R.L

Founded:

•September 2010 •Location Medias

Development:

2011

3 employees
2 presses
Production for german and romanian markets

Our goal 2012:

5 employees
3 presses
Production for german and romanian markets
Production for german and romanian markets
Production of automotive components





Our customers





Source: The above mentiuoned OEM Logo is owned by the specific OEM

OEM customers



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Projects — made by Rosenberger

- Projectmanagement according to Automotive Standards
 - Analysis of feasability, benchmarking
 - FMEA
 - Mold-Flow-Analysis
 - 3D-Design
 - Industrial Engineering
 - Scheduling
- Prototyping with various methods and technologies
- Mould-making in our own workshop in Besigheim
- Initial sampling, makeup and ISIR in Besigheim
- Production in D or RO Quality made by Rosenberger

Design



- Development partner for automotive suppliers
- Design and engineering of mechanic assemblies
- Engineering
- Prototyping
- Project managment
- Serial production



Mould making



- 3D-CAD Pro Engineer
- 2D and 3D- CAM
 I-DEAS,Coscom as well as Powermill of Delcam
- HSC- mills
- Wire and spark erosion
- High precision spark erosion center
- Plane grinding and profile grinding
- CNC-milling



Injection moulding



• 29 presses

- Clamping force from 120 kN up to 1800 kN
- Production area 1.800
 m²
- Shot weight:
 - 1 450gr (in PS)
- Processing of technical plastics and high performance plastics



Multi component injection



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2K-technology
Monosandwich
Fluid assisted moulding possible (unit is prepared)



Applied robotic



- 3 robot operated cells to produce connectors fully automated incl. 100% testing
- 1 of it including stamping and bending
- Annual capacity 1,2 1,6 Mio pcs per cell







Stamping



 Integration of stamping and injection moulding. Stamping of plated bands close to moulding press and immediate subsequent manufaction



Flexible Automation



- Flexible automation cell with 6-axis-robot
- 100%-dimensional testing of airbag connectors by 2 camera systems
- Units separated by cavity numbers
- Measuring of the inmould-pressure of up to 8 cavities



Assembly techniques

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- Automated assembly of mechanical structures
- Ultrasonic welding of high performance plastics material
- Multiple 100%-inspection and final automatic labeling
- Fail-safe-strategy and poka yoke





Aktuators – VW PQ35-Platform



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Bild:VW Golf VI GTDQuelle:WikipediaAutor:S 400 HYBRIDLizenz:Freie Verwendung



Thermostat housing Porsche Panamera



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 Bild:
 Porsche Panamera (typ 970)

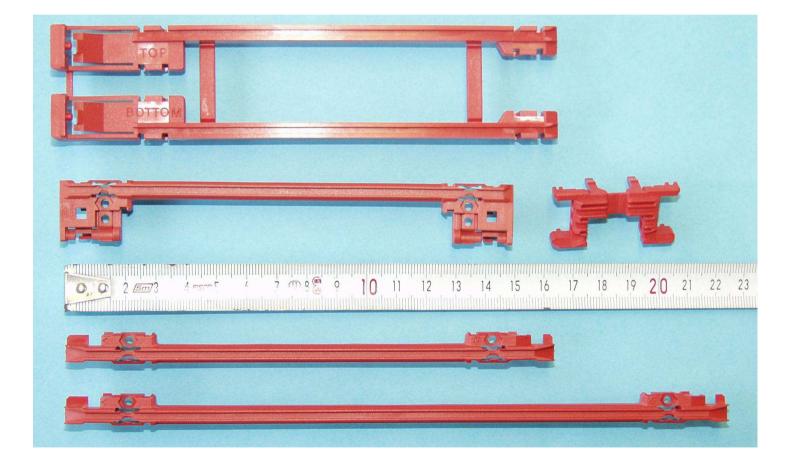
 Quelle:
 Wikipedia

 Autor:
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Guiding rails – switch board cabinets





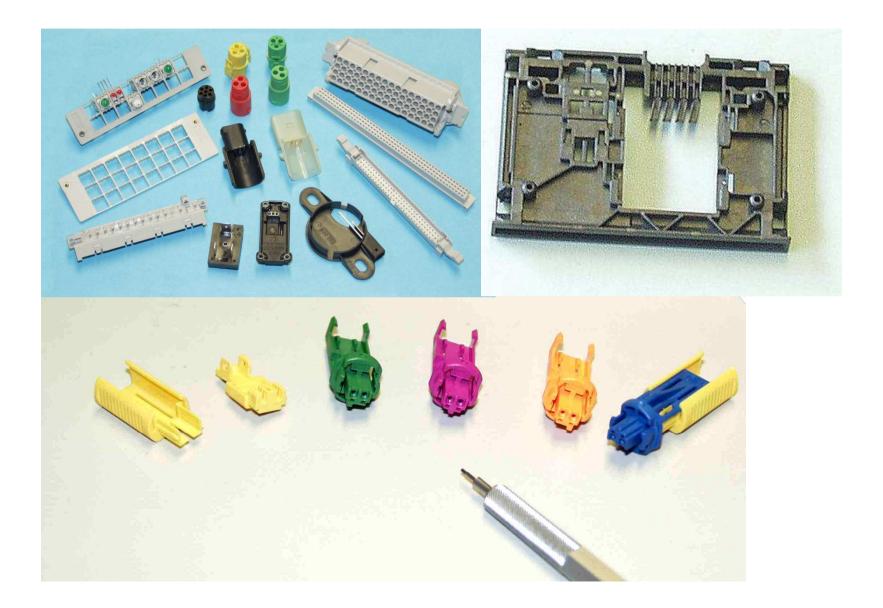
Parts for ultrasonic parking assistance





Connectors and electronic devices





Micro injection moulding



