

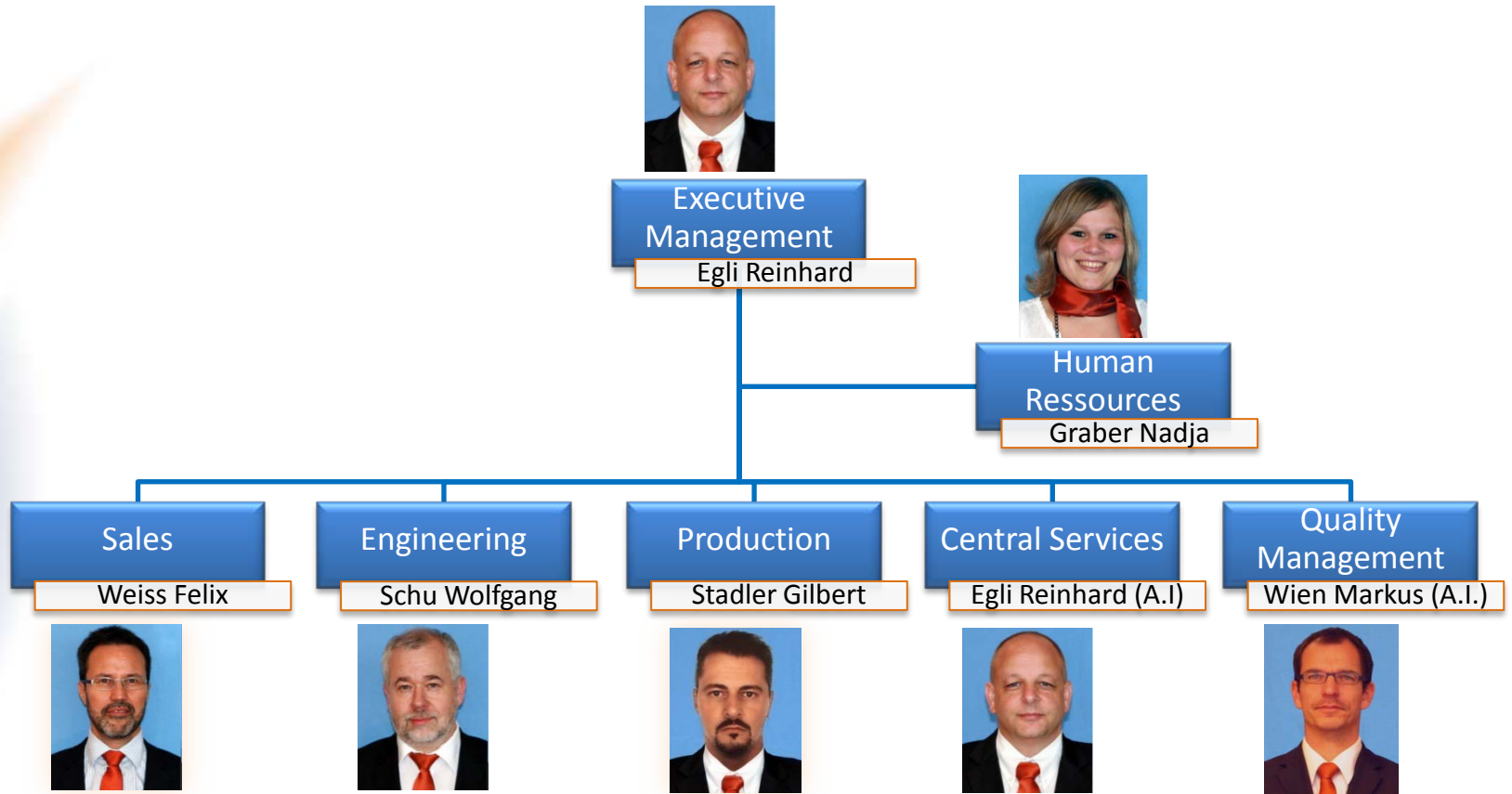


Our customers are enthusiastic about our **innovative solutions** from the product idea to realization and delivery.



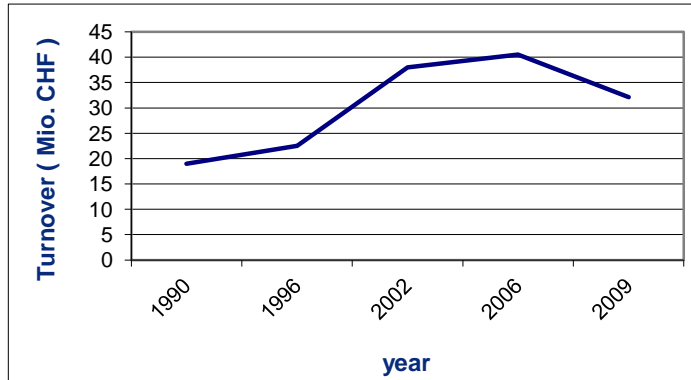
History

- 1962 Founded by Edwin Bischof
- 1966 Moving to the new factory
- 1972 Extension of the factory building
- 1977 Extension of the warehouse
- 1986 Construction of the office building
- 1993 Certified according ISO 9001 by SQS
- 1997 Extension of the production, tool shop and warehouse
- 1999 Takeover as „BIRO Edwin Bischof AG“
- 2000 Takeover plastic injection activities of Von Roll Druckguss AG
- 2002 Certified according ISO TS 16949 by SQS
- 2004 Tier 1 supplier
- 2006 TS 16949 BIRO development certified
- 2007 Certified according ISO 14001 environment
- 2009 Certified according ISO TS 16949:2009 by SQS
- 2009 Certified according ISO 9001:2008 und ISO 14001:2004 by SQS
- 2010 Ford Q1 Award
- 2011 Sika Schweiz acquiring Biro Edwin Bischof AG

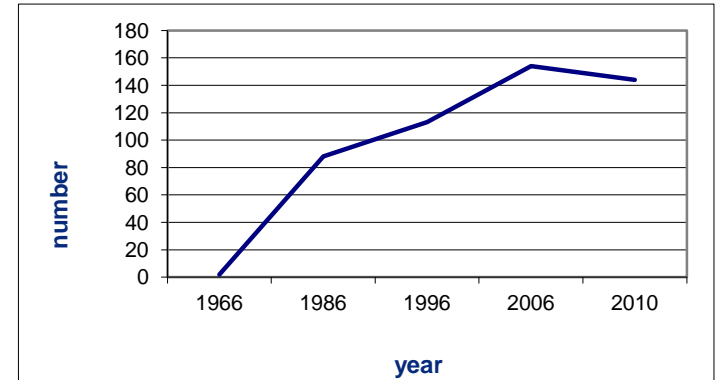


Development

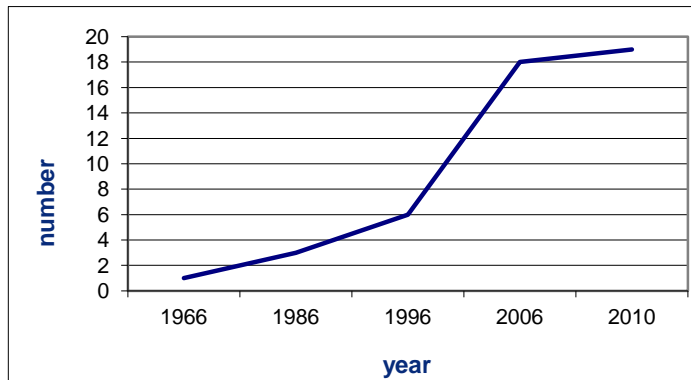
Turnover



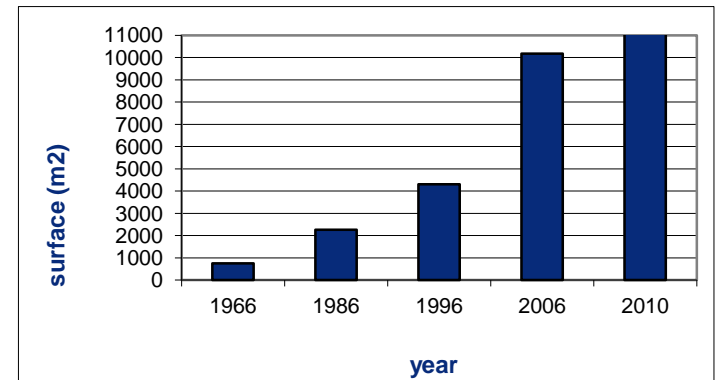
Employees



Apprentices



Floor space



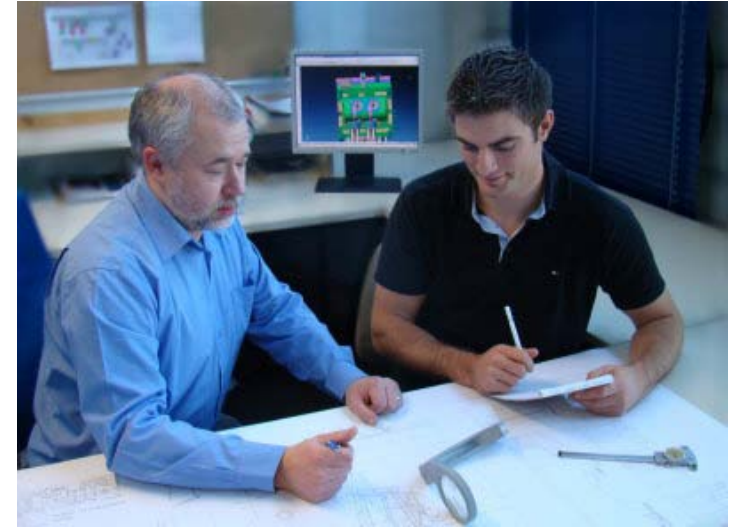
Core Competences

- Engineering
- Injection moulding
 - 1 Component moulding
 - 2 Component moulding
 - Gas assisted moulding
 - Insert technology
 - Foaming TPE
- Tool / mould-making
- Automation
- Finishing
- Service



Engineering

- Part and mould construction with 3D-CAD (Visi CAD, CoCreate Catia V5)
- Interfaces 3D (Parasolid, Step 214, IGES, SAT, STL)
Interfaces 2D (IGES, DXF)
Information (E-Drawing, VRML)
- Simulation software moldflow, FEM
- Process overlapping knowledge
- Prototyping
- Testing laboratory

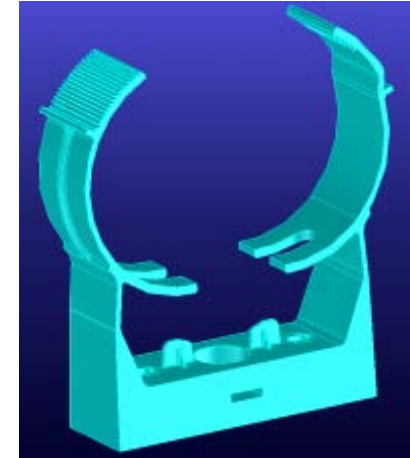


Finding a solution

Morphologischer Kasten					
Kunde	Projekt	Datum		Blatt 71-1	
RELI FORM	LIL 198-20	22/08/98			
Özände	Var. 1	Var. 2	Var. 3	Var. 4	Kriterien
1) Umkleenagel an Rollstuhl-Ler					<ul style="list-style-type: none"> Größe: 200 Belastung: 100kg Material: Kunststoff Farbe: Schwarz
2) Umkleenagel an Rollstuhl					<ul style="list-style-type: none"> Größe: 200 Belastung: 100kg Material: Kunststoff Farbe: Schwarz

Erstellt: D. Martin Datum: 21.02.98
 Freigegeben: D. Martin Datum: 22.02.98
 DOK-Nr.: 3.95.00.889

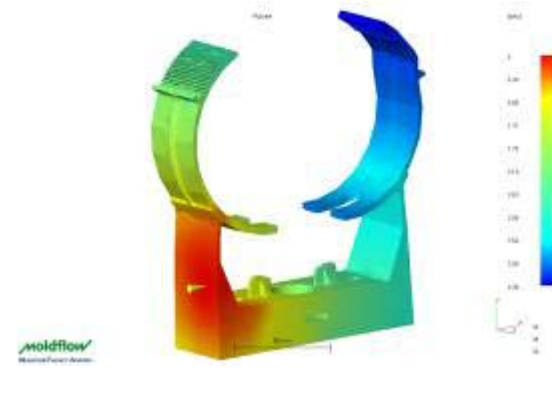
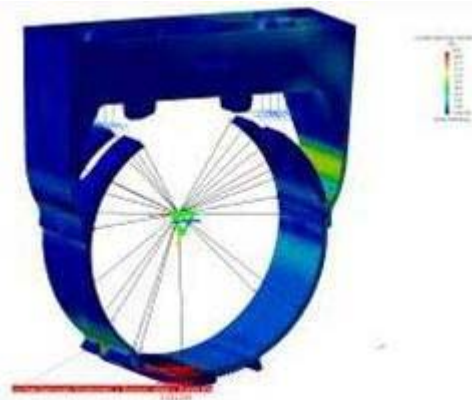
Concept in 3D CAD



FEM

Moldflow

Prototypes



Tool-/mouldmaking

- 1 and 2 components tools
- Maximum 900 x 700 mm
- HSC milling machine
- CNC drilling centre
- CNC grinding machine
- CNC sink erosion
- Wire erosion

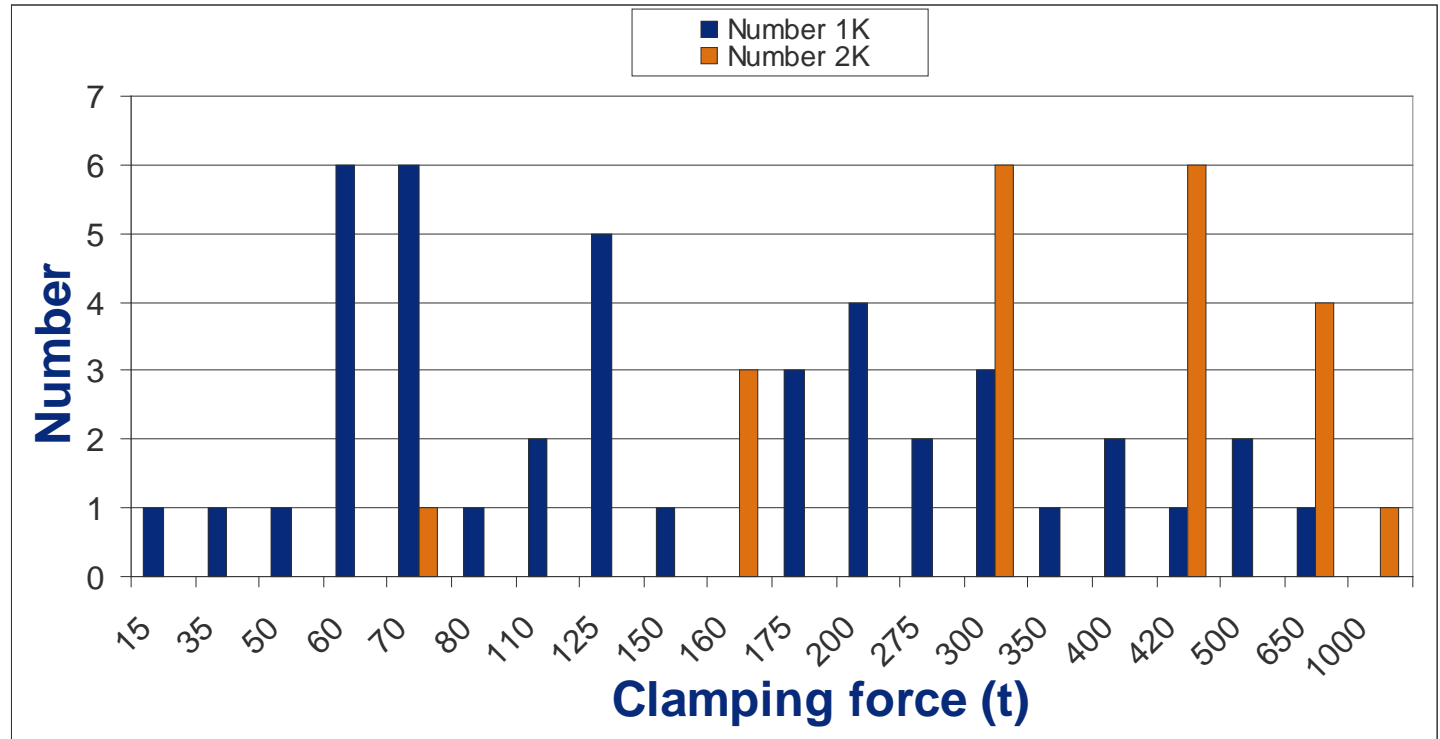


Production

- 64 injection moulding machines
- 2 Component 70 t – 1000 t
- 1 Component 30 – 650 t
- Clean-room tent
- 2 component injection moulding
- Maximum shot weight 3.5 kg
- All machines equipped with takeout-handling



Injection moulding machines



Finishing

- Assembling
- Glueing
- Screwing
- Ultrasonic welding
- Hot stamping
- Pad printing
- Mechanical treatment
- Specific packaging according customer need

- 100% automatic assembling machines (including control)



Services

- Rapid Prototyping
- Stereolithography STL
- Laser sintering SLS

- Rapid Moulding
- Vacuum casting
- Aluminium tools
- Handymolds

- Significant and small production runs
- JIT-delivery
- On-the-spot support



Equipment

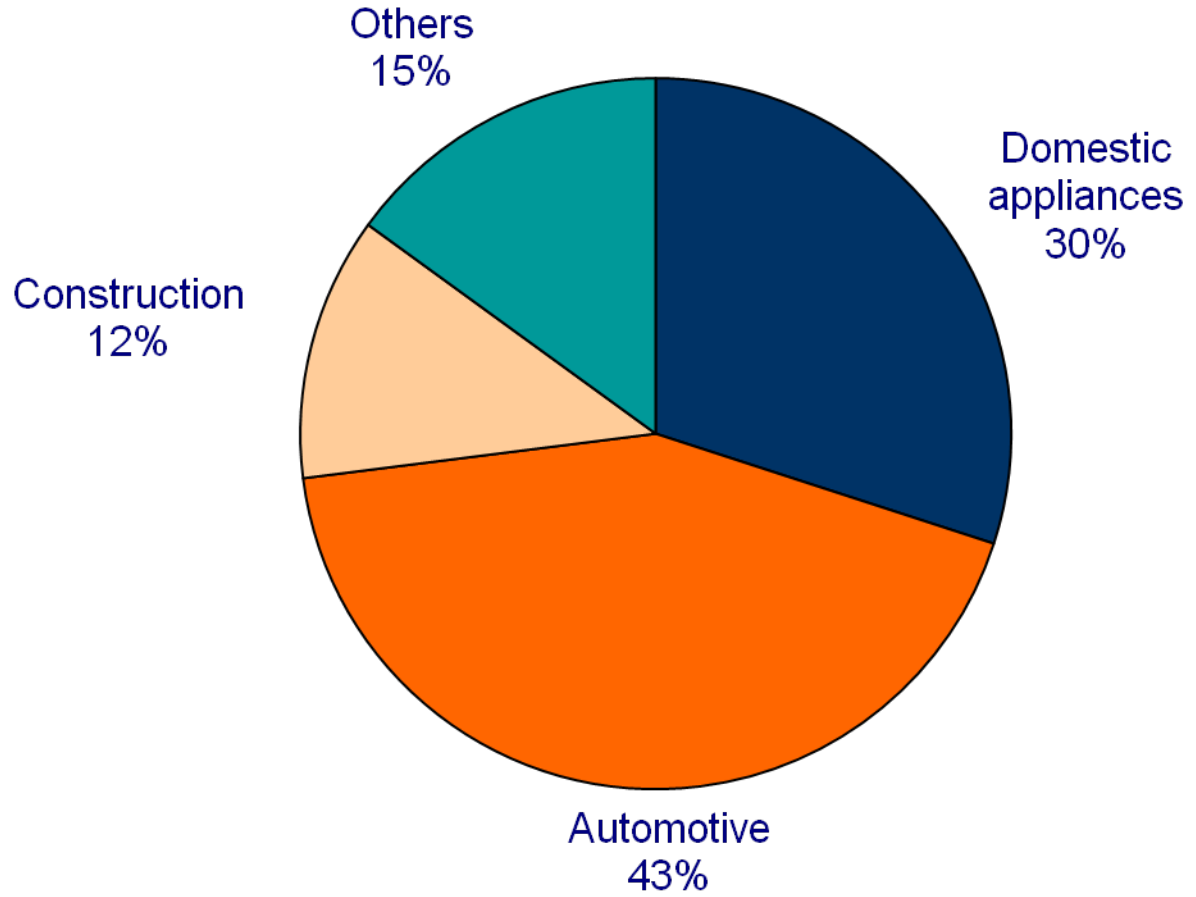
- Air conditioned measuring room
- 3D measuring machine
- Colour measuring machine
- CAQ-System
- Tensile-/compression test



Certificates

- ISO 9001:2008
- ISO 14001:2004
- ISO / TS 16 949:2009







Products – Domestic Appliances

Function

- Frontcover sewingmachine

Challenge

- Very complex geometry
- Very demanding surface
- Free of burs
- Including assembling and printing



Products – Domestic Appliances

Function

- Brew unit for coffee-machine

Challenge

- High complexity
- Small Tolerances



Products – Domestic Appliances

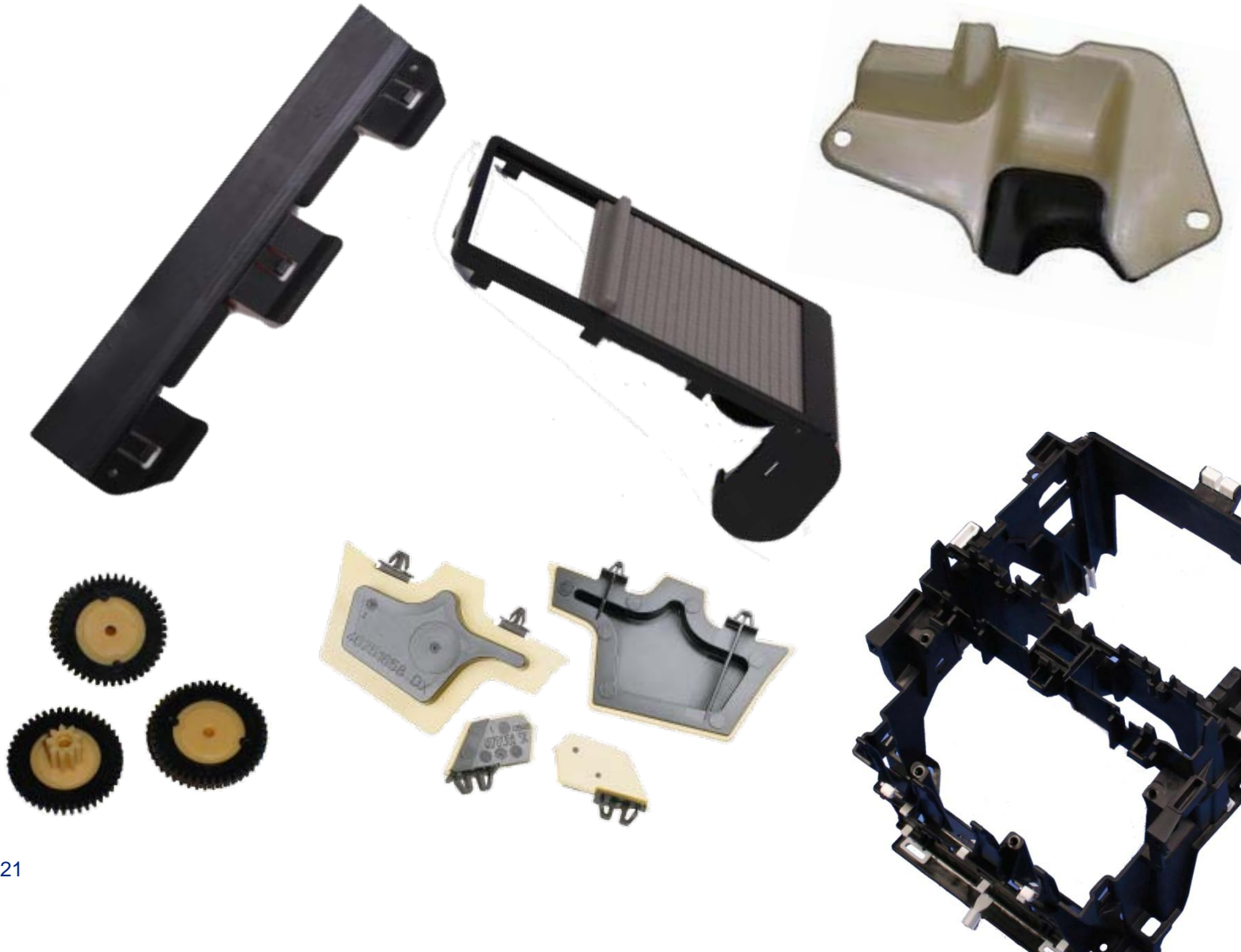
Function

- Grater

Challenge

- 2 Component
- Very demanding design



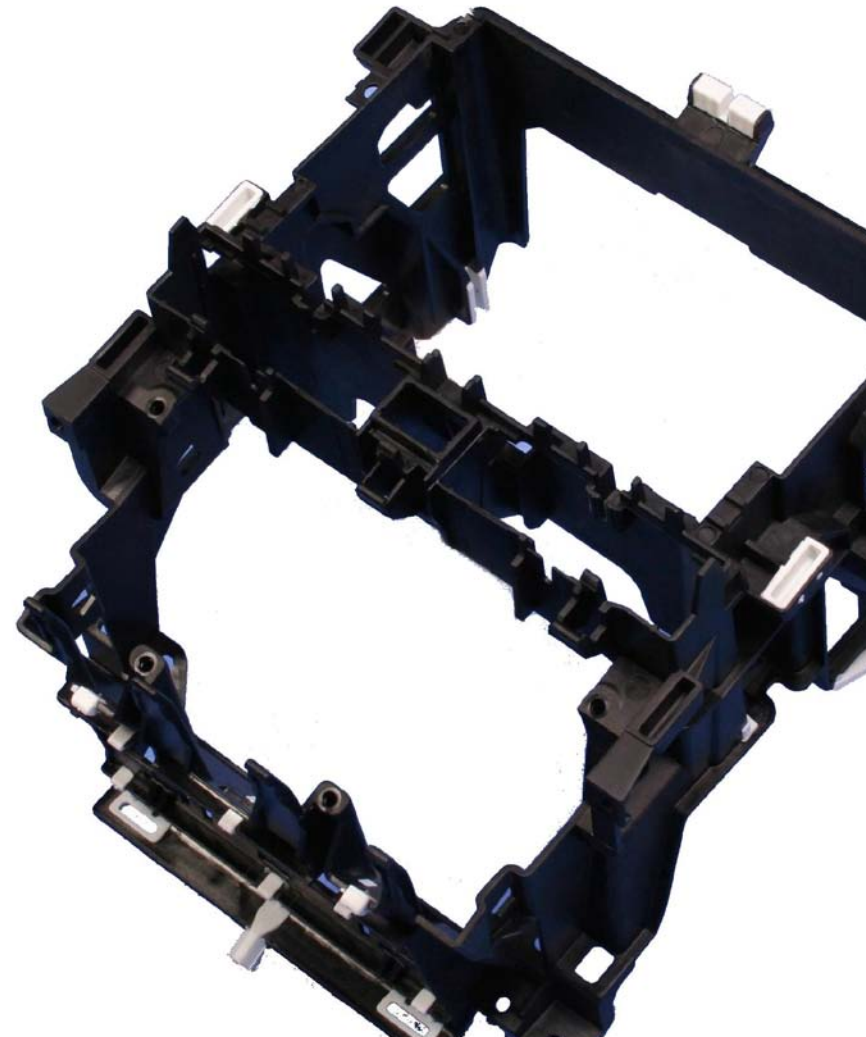


Function

- Support for navigation- and airconditioning device for Audi A3

Challenge

- Engineering by Biro
- Very complex tool
- 2 Component moulding



Products - Automotive

Function

- Noise absorption and sealing parts for car body

Challenge

- 2 Component family-tool
- 12 different parts in 1 tool
- Weight difference unto 1 : 7



Products - Automotive

Function

- Gearshift lever A 4-B8

Challenge

- 2 Component index tool
- PA GF 50/ TPU
- Very small tolerances





Products - Construction

Function

- Powertool soft-touch parts

Challenge

- 2 Component family-tool
- 10 different parts in 1 tool
- Completely rheologically balanced



Products - Construction

Function

- Clic Standoff, for RF-cable installations

Challenge

- Engineering by Biro
- Prototyping
- Serialproduction



reddot design award
winner 2007



Products - Construction



Function

- Luminous sign for phone box

Challenge

- 2 Component turning technique
- Single injection of each digit



Function

- Display glass for instruments

Challenge

- High optical quality
- Production in clean-room tent
- Zero failure production



Products - Others

Function

- Housing for night vision instrument

Challenge

- Highest precision
- Complex geometry
- Tool with 3 core puller and untwist
- High complexity



Various parts in insert technique



References

RIETER



Audi



BOSCH

Continental[®]



Leica
Geosystems



■ GEBERIT

Heiniger

BERNINA⁺

walter
meier

Betty Bossi

