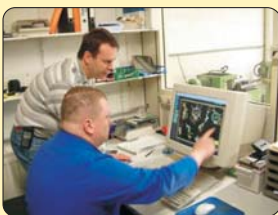


Engineering  
with  
**Synthetics**  
and **Metal**

- **Company**
- **Procedures**
- **Reference**
- **Contact**



## Company

Kürbi & Niggeloh BILORA today

With its experience and knowledge of synthetics and metal combinations the company turned to new products and product ranges.

Kürbi & Niggeloh BILORA presents itself as a competent manufacturer of precision shrink boots made from technical synthetics and is a valued partner for companies with demanding production programmes.



- **Company**
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## Company

The company BILORA, founded in 1909, devoted itself at first to the manufacturing of photo tripods, music stands, hat stands and postcard stands.

In time, the production programmes advanced to electric shavers, bicycle parts, roll-film, miniature and compact cameras.

Because of the increased use of synthetic parts in our products we established our own synthetic part manufacturing capability in 1965.



Plant 2



Plant 1

The positive development of polymer processing business led to the establishment of another production site in 1978 which was enlarged to 4000 m<sup>2</sup> in 1991. For storage and assembling there are another 5000 m<sup>2</sup> available.

- Company
- Procedures
- Reference
- Contact

## Procedures

- Injection moulding
- Further processing / Assembly
- Quality management
- Machine tool manufacturing
- Product development / Drawing room
- Service / Logistics
- Applied technical synthetics

○ Company

○ Procedures

○ Reference

○ Contact

## Injection moulding

- 40 Injection moulding machines, mostly „Arburg“ - brand
  - Clamping forces between 120 - 2000 kN
  - Moulded weights from 0,05 - 500 g
- Centralized and de-centralized pre-drying (dry air) - Colortronic
- Centralized raw materials supply - Colortronic
- Self-coloring
- Automated discharging systems
- Automated feeding systems
- Heating systems (water/ oil) up to 250 Grad C
- Recycling of production waste
- Temper- und conditioning devices



## Procedures

- Injection moulding ○
- Further processing / Assembly ●**
- Quality management ○
- Machine tool manufacturing ○
- Product development / Drawing room ○
- Service / Logistics ○
- Applied technical synthetics ○

○ **Company**

○ **Procedures**

○ **Reference**

○ **Contact**

### Further processing / assembly

- Mechanical processing
  - drilling
  - turning
  - milling
  - reaming
  - vibratory grinding and deburring
  
- Misc. further processing
  - glueing
  - assembly of threaded inserts
  - thermo-riveting
  
- Assembly
  - manufacturing of components
  - manufacturing of (end) products
  - assembly robots
  - integration of quality controls
  - packaging robots
  
- Decoration
  - tampon printing
  - screen printing
  - lacquering



## Procedures

- Injection moulding ○
- Further processing / Assembly ○
- Quality management ●
- Machine tool manufacturing ○
- Product development / Drawing room ○
- Service / Logistics ○
- Applied technical synthetics ○

○ Company

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## Quality management

- Statistical quality control
- Functional quality checks
- Measurement documentation using 3-dimensional measuring machine
- Certified acc. to DIN EN ISO 9001:2000



## Procedures

- Injection moulding ○
- Further processing / Assembly ○
- Quality management ○
- Machine tool manufacturing ●
- Product development / Drawing room ○
- Service / Logistics ○
- Applied technical plastics ○

○ **Company**

○ **Procedures**

○ **Reference**

○ **Contact**

## Machine tool manufacturing

- High precision machine tools for application with technical plastics
- C N C milling and spark erosion machines
- Manufacturing of machine tools for prototyping
- Automatic assembly and feeding devices
- 3 D CAM - manufacturing



## Procedures

- Injection moulding ○
- Further processing / Assembly ○
- Quality management ○
- Machine tool manufacturing ○
- Product development / Drawing room ●
- Service / Logistics ○
- Applied technical synthetics ○

### Product development / Drawing room

- Development of application-oriented solutions based on customer's targets.
- Development of machine tools
- Development of operational funds
- Manufacturing of functional samples
- Utilization of CAD/CAM systems



○ **Company**

○ **Procedures**

○ **Reference**

○ **Contact**

## Procedures

### Service / Logistics

- Order processing  
we manage for you
  - Blanket orders
  - Orders by call
  - Date controlled dispositions
- Storage/ dispatch
  - Professional stock keeping
  - Packing service
  - Dispatch control
  - Picking

- Injection moulding ○
- Further processing / Assembly ○
- Quality management ○
- Machine tool manufacturing ○
- Product development / Drawing room ○
- Service / Logistics ●
- Applied technical synthetics ○

○ Company

○ Procedures

○ Reference

○ Contact



## Procedures

- Injection moulding ○
- Further processing / Assembly ○
- Quality management ○
- Machine tool manufacturing ○
- Product development / Drawing room ○
- Service / Logistics ○
- Applied technical synthetics ●

○ Company

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## Applied technical plastics

(also additives being used, e.g.: glass fibres, admixture up to 60 %  
Partially modified with additives for blaze, floating and wearout protection,  
heat stabilization and further user-related demands (glass fibres admixtures  
up to 60 %)

ABS	Acrylonitrile - Butadiene - Styrol
ABS / PC	Acrylonitrile - Butadiene - Styrol / Polycarbonate blend
ASA	Acrylic rubber - Styrol - Acrylonitrile
EVA	Ethyls Vinyl acetate
PA 6	Polyamide (PP)
PA 6 6	Polyamide (PP)
PA 1 1	Polyamide (PP)
PA 1 2	Polyamide (PP)
PBT	Polybutylenterephthalate
PC	Polycarbonate
PEEK	Polyaryletherketone
PEI	Polyester imide
PES	Polyether sulfone
PET	
PET P	Polytereophthal acid ester
PMMA	Polymethyl metacrylate
POM	Polyacetal
PPO	Polyphenylene oxide
PPS	Polyphenylene sulfide
PSO	Polysulfon
PUR	Polyurethane (PU)
SAN	Styrol - Acrylonitrile
SEBS	
SI	Silicone
TPE	Thermoplastic Elastomers
TPU	

## Applied standard plastics

HDPE	High density Polyethylene
LDPE	Low density Polyethylene
PP	Polypropylene
PS	Polystyrol

## Reference

Hybrid parts



Technical parts



Assembly / Components



Glueing



Surface finishing



Printing



Thermoplastic elastomere



Silicones



- Company
- Procedures
- Reference
- Contact

## Contact

Company

### KÜRBI & NIGGELOH BILORA GmbH

#### Main plant and Administration:

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Germany

Phone: 02195 673 -0  
Fax: 02195 673 -59

Procedures

#### Production:

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42477 Radevormwald  
Germany

E-Mail: [info@bilora.com](mailto:info@bilora.com)  
Website: [www.bilora.com](http://www.bilora.com)

Reference

### Contact persons

Contact

Department	Name
General Manager:	Mr. Dipl. Ing. M. Neumann
	Mr. Dipl. Ing. J. Lotz
Sales Director:	Mr. K. Kneip
Sales Manager:	Mrs. Jutta Schörken
Export Sales:	Mrs. Julia Schörken
Field Sales Manager:	Mr. H.-J. Biesenbach
Quality assurance:	Mr. R. Sawetzki
Quality management:	Mr. P. Kuerbi
Accounts:	Mr. D. Pasche