

WE SHAPE YOUR PRODUCTS

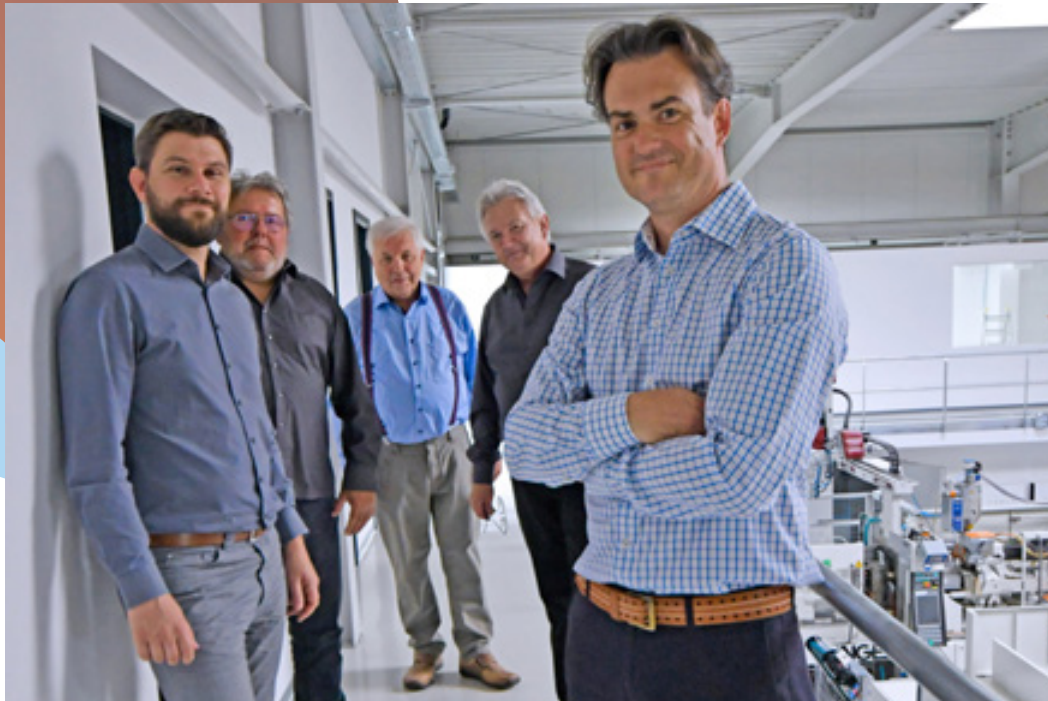
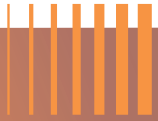


KUNSTSTOFF
TECHNIK



MADE IN GERMANY

WHAT DEFINES US



COMPETENCE, EXPERIENCE, ACCURACY AND RELIABILITY!

Our credo is to be more than just reliable parts or product supplier. We take a holistic approach to your products and bring together external processes in our company. Our efficient production is carried out with the most modern, fully electric plastic injection molding machines in Berlin - we are personally available for you.



Ø MANUFACTURED
PARTS / YEAR
37 million



INVENTIONS SINCE
FOUNDATION
12+



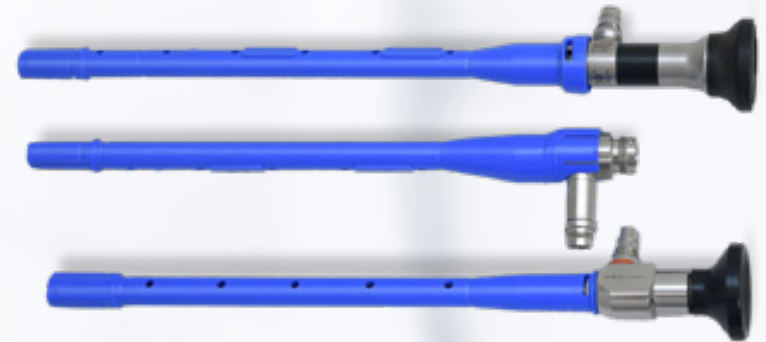
SMALLEST
PART

2,63 mm³

FOR PLASTIC INJECTION MOLDING WE ARE PASSIONATE

BENEFIT FROM DECADES OF EXPERIENCE IN THE PROCESSING OF SILICONES AND THERMO-PLASTICS.

- Fully electric injection molding machines
- Automated parts handling by modern linear robots
- All our injection molding machines are fit for clean room production
- Processing of various technical plastics and liquid silicone rubber (LSR)
- Long-standing partnerships with mold makers automation service providers and material suppliers from the region



EndoGuard® endoscope protection sleeves



snotX® Nasal secretions aspirator

MACHINE PARK

- All-electric injection molding machines with clamping forces from 300 kN to 1.000 kN
- Partially tie-bar-less machine design for accommodating larger mold forms
- Processing of 2-component silicone (LSR)
- Automatic metering of up to two additives simultaneously
- Cavity-separated removal processes through 3-axis robotics



Thermoplastic polymers:

PS, ABS, MBS, PP, PE-HD

Engineering plastics:

POM, SAN, PMMA, PA, PC, TPE,

PETP, PU

High performance thermoplastics:

PEEK, PPS, PPA

Elastomers:

TPU, TPE

Silicones:

LSR (Liquid Silicone Rubber)

SUB- ASSEMBLY

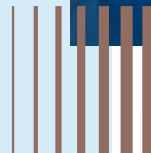


UV-Cleaner
engineered by F&L

FULL SERVICE WITH KNOW-HOW AND EXPERIENCE FOR MECHANICAL ASSEMBLIES INCLUDING DETAILED QUALITY INSPECTION AND PROFES- SIONAL DOCUMENTATION

Save your capacities and resources.
Because we turn your parts and components
into first-class assemblies.

- Screwing, pressing, joining, and potting
- Fully air-conditioned assembly, including clean room - for the highest quality standards
- Fine assembly, using special self-developed auxiliary equipment
- Digital and optical control and measuring devices
- Test scopes according to your AQL specifications up to 100% final inspection

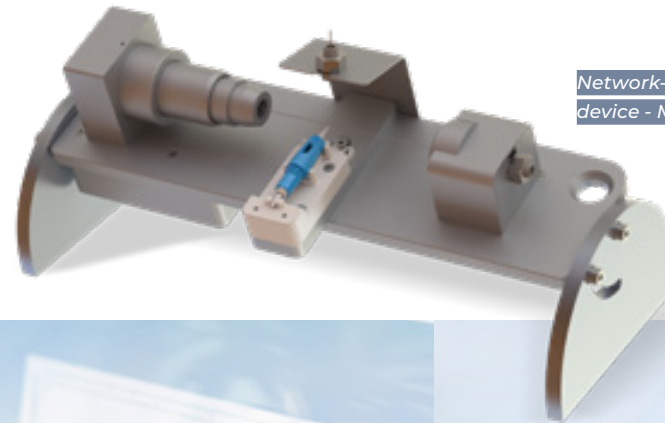


UV-BONDING GLASCAR AND SOLIDLY BONDED

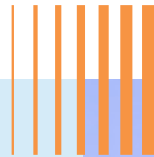


- 3-axis dispensing automation
- Many years of experience in UV and multi-component bonding
- Realization of small to large series
- Development of proprietary solutions for UV exposure processes

DEVELOPMENT & CONSTRUCTION



Network-compatible testing device - Made by F&L



DESIGN OF PLASTIC PARTS FOR DIFFERENT INDUSTRIAL SECTORS

For more than 20 years our development team supports products from idea to prototype to series production.

Our designers always think cross-sector, use the advantages of synergy effects and combine the knowledge and experience for the optimal product.

- Professional development of plastic products and molded parts
- Design / component modifications according to customer specifications
- 100% control of drawings and component status
- Project documentation according to your specifications, e.g. for medical products standard



FILLING STUDIES AND 3D PRINTING

Typ: Volumen
Element: 31528
Knoten: 14452
Material: ABS
Produkte: (P)
Generic material /
Generic ABS



Füllzeit
Max: 0.7476 sec
Min: 8.825e-04 sec
(sec)

| |
|--------|
| 0.7476 |
| 0.6854 |
| 0.6231 |
| 0.5609 |
| 0.4987 |
| 0.4365 |
| 0.3742 |
| 0.3120 |
| 0.2498 |
| 0.1876 |
| 0.1253 |
| 0.0631 |
| 0.0009 |



FILLING STUDIES

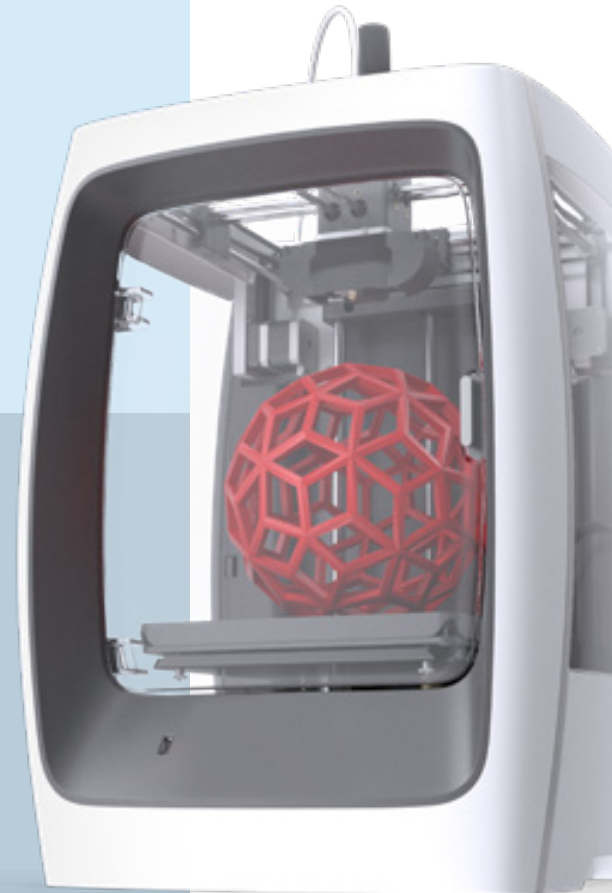
Save costs and time due to realistic simulations of injection mold filling.

- Melt distribution and cooling times are important data for future process stability
- Faults, such as sink marks, can be detected at an early stage
- Assessment of the position of weld lines

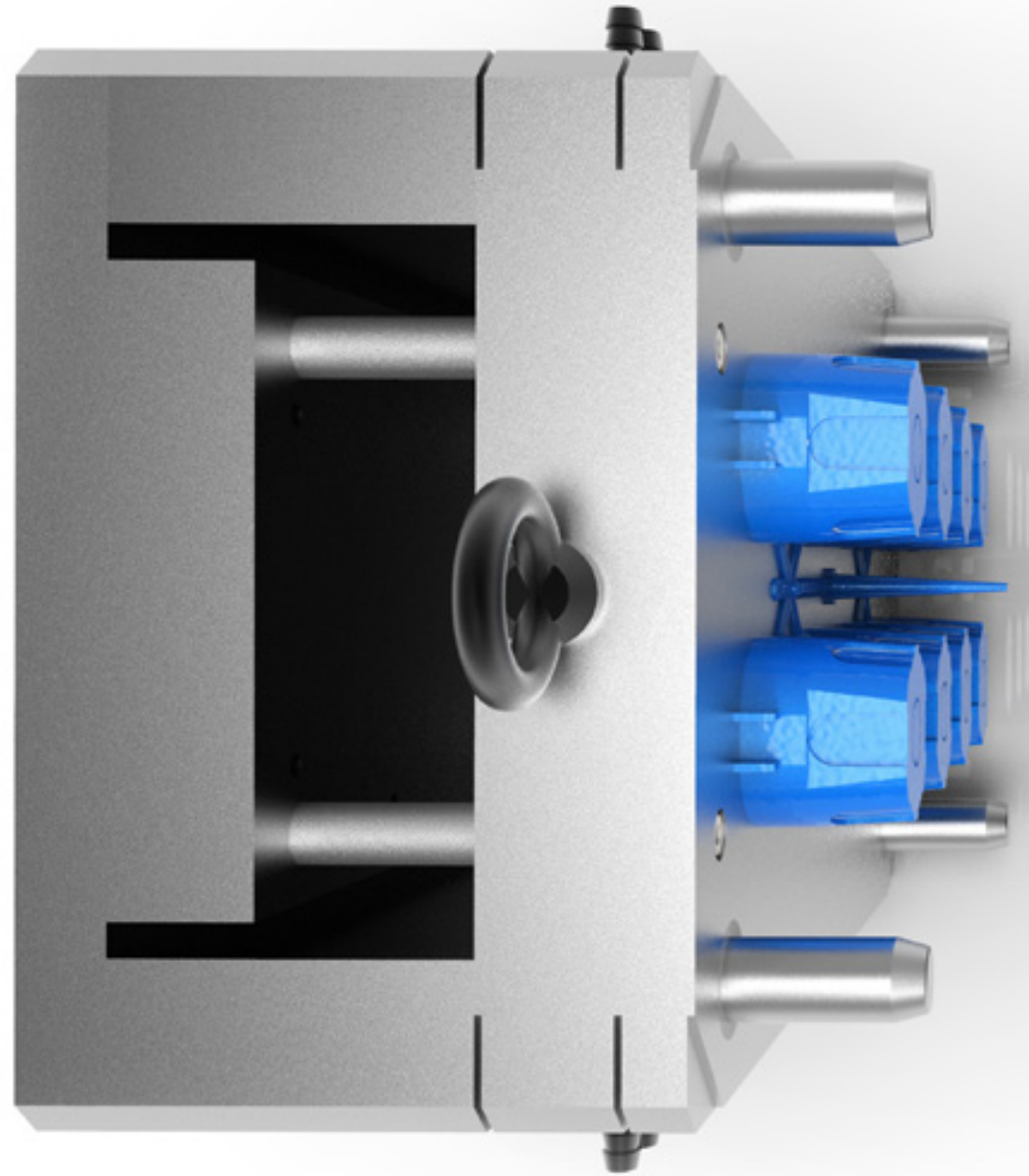
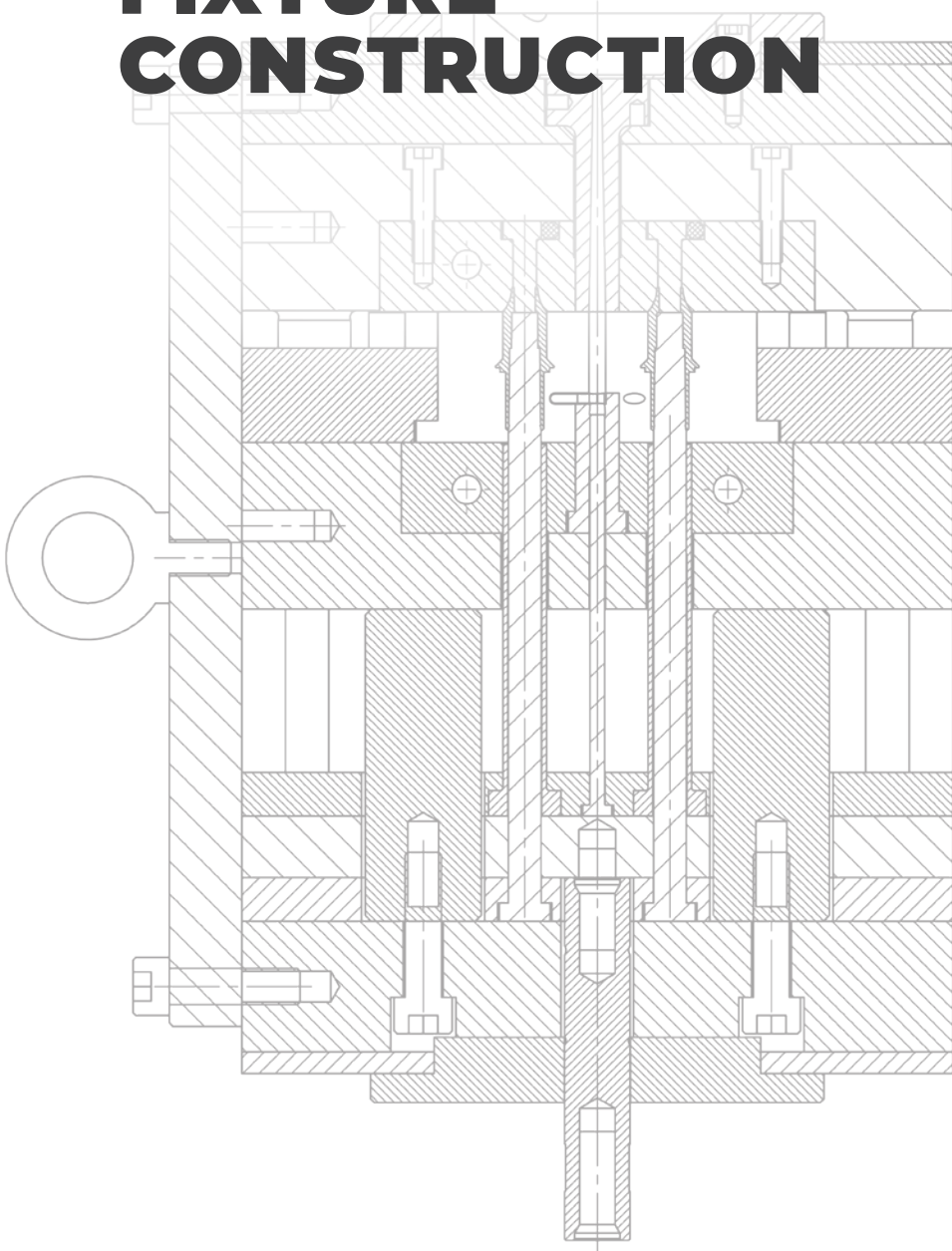
3D PRINT

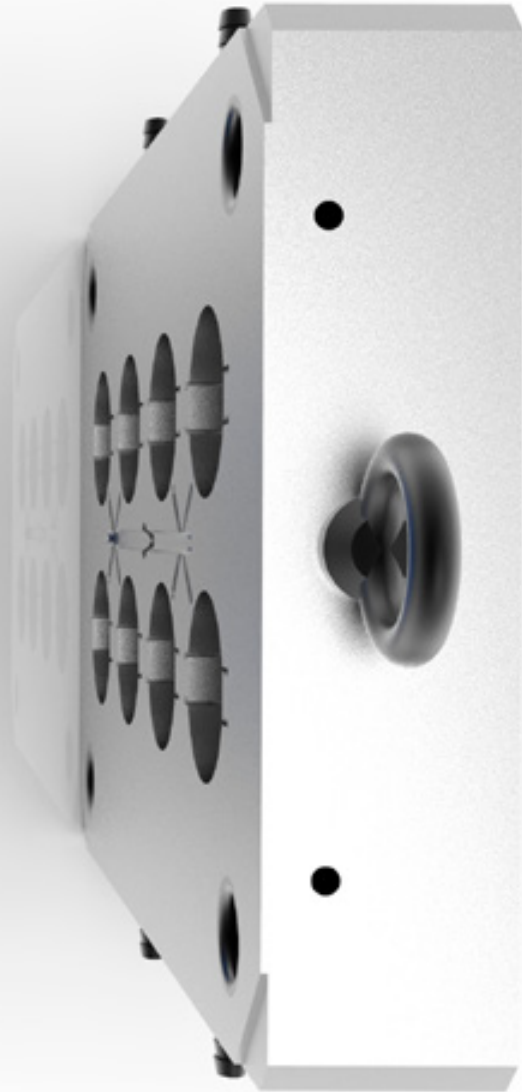
For us, this is an important production method for complex geometries or fast prototypes. Highly flexible and without the need for tool changes for component adaptations.

- For prototypes, mockups, visual concepts, fixtures and much more
- No downtime between product revision or production of completely new products
- FDM and SLA printing technology, for a wide range of applications



HELP AND FIXTURE CONSTRUCTION





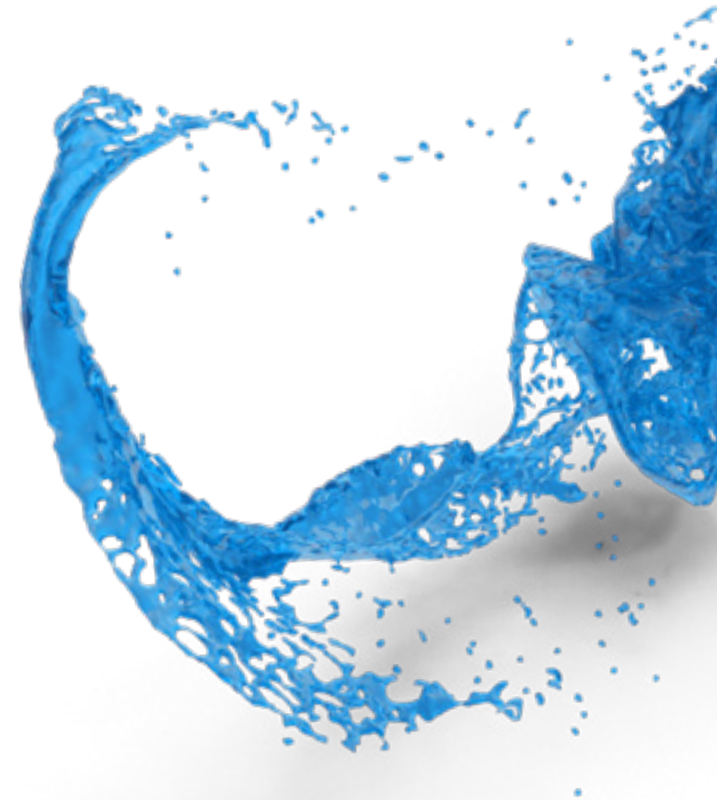
MOLD FORMS AND TOOL MAKING

An extensive network and long-standing partnerships with first-class mold forms- and tool-makers enable short project lead times and fast availability.

AUXILIARY AND FIXTURE CONSTRUCTION

Auxiliary devices aid in joining, drilling or pressing and minimize effort and costs without compromising quality. For this reason, auxiliary and fixture construction has been part of the company since the very beginning.

- Advice and support in the design of assemblies, thanks to own construction
- Devices available at short notice
- Close networking with competent partners and toolmaking companies in the immediate vicinity
- Use of our own metal cutting machines and 3D printing technology for individual solutions for small and very small series



HOME OF QUALITY



Located in Berlin, our company benefits from the new 4.000m² premises built in 2018, our company benefits from a good regional infrastructure. State-of-the-art machine technology and peripheral equipment enable production at the highest quality level with optimal use of resources.

- Fully electric injection molding machines (300kN - 1.000 kN) with clean room equipment
- Machine equipment with linear robots
- Gravimetric 2-component dosing systems for precise material admixtures
- Modern compressor system with energy recovery

- Optical measuring machine for automatic series measurement
- 3-axis dosing robot
- Digital tensile and compression test bench
- Fully air-conditioned assembly rooms
- Assembly and commissioning possible in clean room
- 5t crane system

OUR INTERPRETATION OF SUSTAINABILITY



GENERATIVE:

We generate an important part of our electricity requirements and we generate customer benefits in economic aspects with increased supply availability.

REGENERATIVE:

We reprocess process-related material surpluses and use the waste heat from the technical equipment.

INNOVATIVE:

We significantly reduce CO₂ and hydraulic oil emissions through 100% fully electric injection molding and company vehicles. Our energy concepts work with battery storage > 120 kWh and emergency power function for critical processes.

COOPERATIVE:

We offer our customers visitor parking spaces with charging facilities for electric vehicles up to 22kW loading power.



ELECTRICITY
GENERATION PER
YEAR Ø

12 MW



MAX. REACHED
DEGREE OF DAILY
SELF-SUFFICIENCY
ELECTRICITY

86 %



CO₂ SAVINGS
PER YEAR:

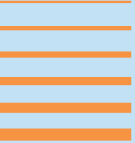
51,9 t



CO₂ SAVING IN
BIO-EFFICIENCY
PER YEAR

**4.152
Trees**

OUR QM STANDARDS FOR WORLDWIDE RECOGNITION



Customer requirements for product quality, purity and consistent dimensional accuracy we see as much as an obligation as personal availability, fair procurement processes and reliable delivery availability.

Our quality management system is certified according to the following current standards:

- DIN EN ISO 9001
- DIN EN ISO 13485





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