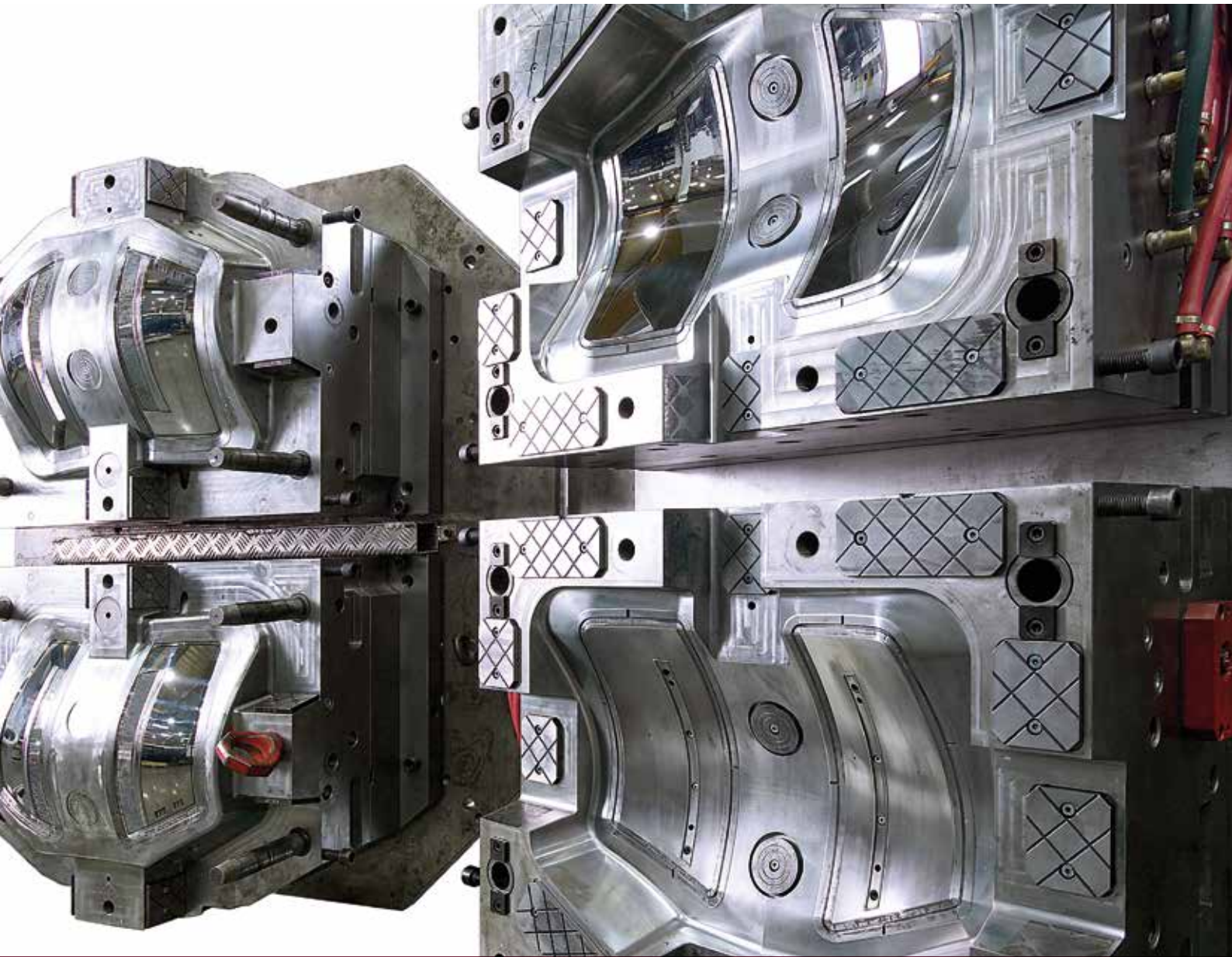


Precision at its best.



FROM THE IDEA
TO THE PERFECT DESIGN



- Maximum efficiency in mould making has been our maxim since our foundation in the year 1982 - in the beginning purely as a glass mould maker, since the 1990's as a high performance producer of injection- and die casting moulds for the plastics processing industry.

IN GOOD HANDS

- Through the years it has been our continuous demand: With creative ideas, qualified knowledge and passionate enthusiasm for technical innovation to level for our customers the path to the winner's rostrum in the market of today.



Markus Finke
Managing Director



Hartwig Feldmann
Factory Manager



PRECISION ALL ALONG THE PROCESS CHAIN

- Integrated development and production of injection moulds and equipment for the plastics industry
- 7.000sqm production area (Mould making shop and processing application)
- Extensive product spectrum from component part to complete solution and mould weight up to 20tonnes
- Maximum mould dimensions 2.500mm x 1.500mm
- Continuous quality management on the certified basis according with DIN EN ISO 9001:2008
- Own energy supply with windmill and solar panels
- High speed volume of output with 3 shifts work
- Integrated gauge and fixture production
- Associated injection moulding for sampling and pre-series parts
- Complete handling of logistics with own truck fleet
- Full-Line-Services including servicing and repair at the destination

01 »

ARTICLE DATA

02 »

MOLDFLOW AND
DISTORTION
ANALYSIS

03 »

MOULD DESIGN

04 »

SERIES
TOOL SHOP

05 »

GAUGE AND
FIXTURE
PRODUCTION

06 »

FIRST SAMPLES

07 »

MOULD AND
PROCESS
OPTIMISING

08 »

DISLOCATIONS
TO PRODUCTION
SITE



01 »

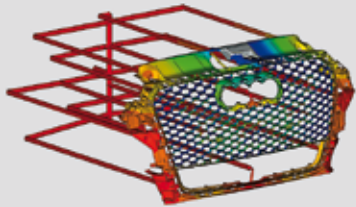
ARTICLE DATA



06 »

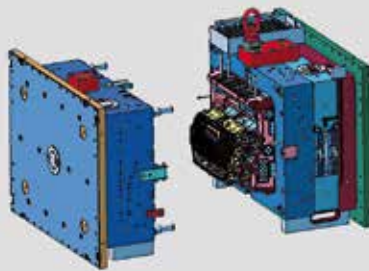
REFINED PART

PROCESS-/DELIVERY RANGE



02 »

MOLDFLOW



03 »

INJECTION MOULD DESIGNING



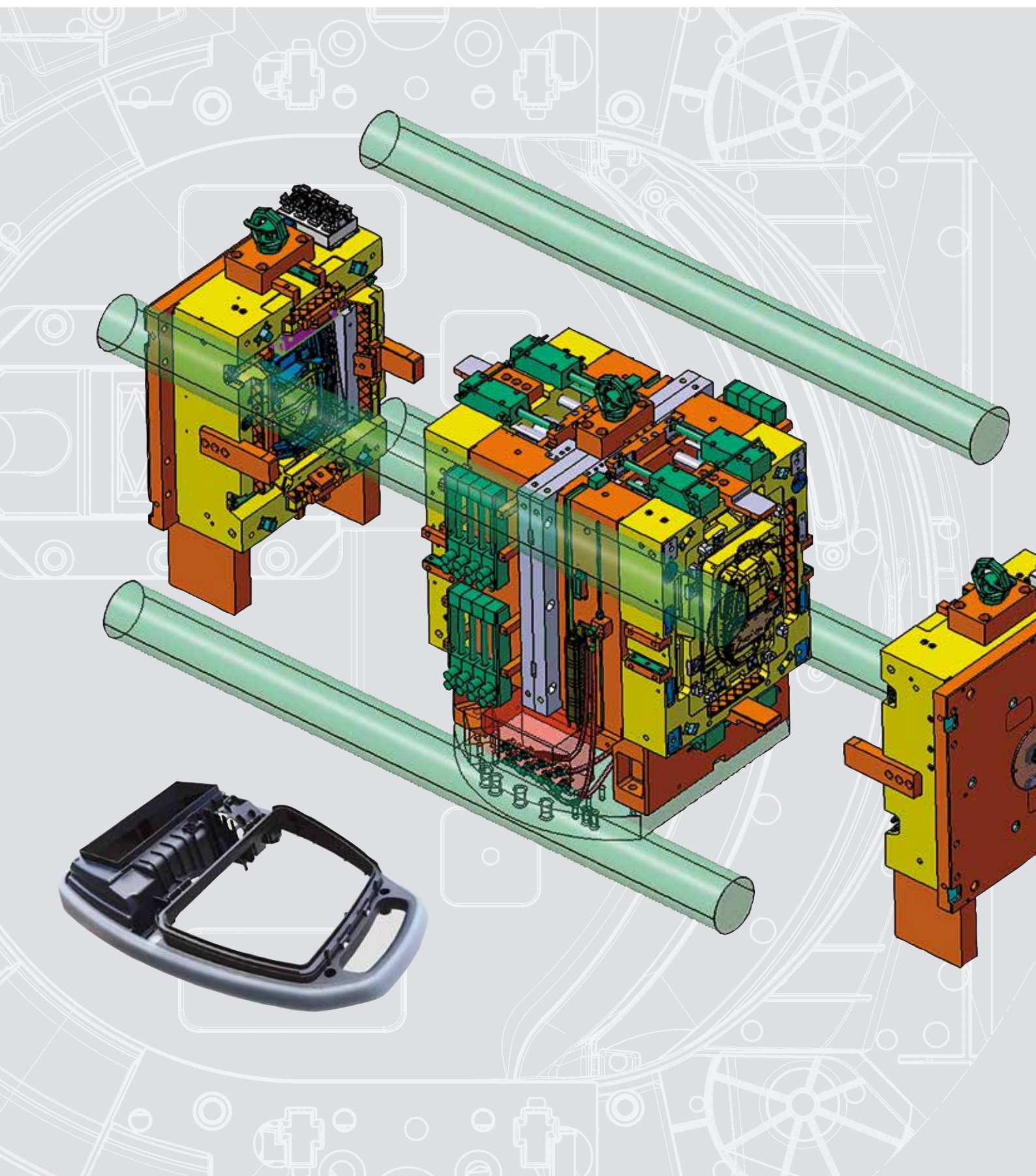
05 »

ARTICLE FROM THE
INJECTION MOULD



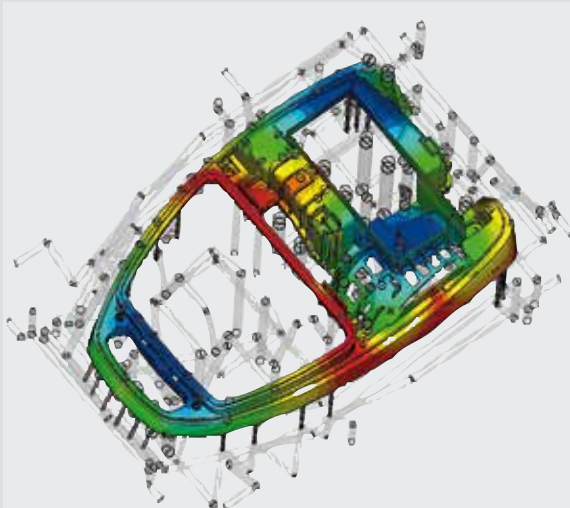
04 »

TOOL IN THE
MOULDING MACHINE



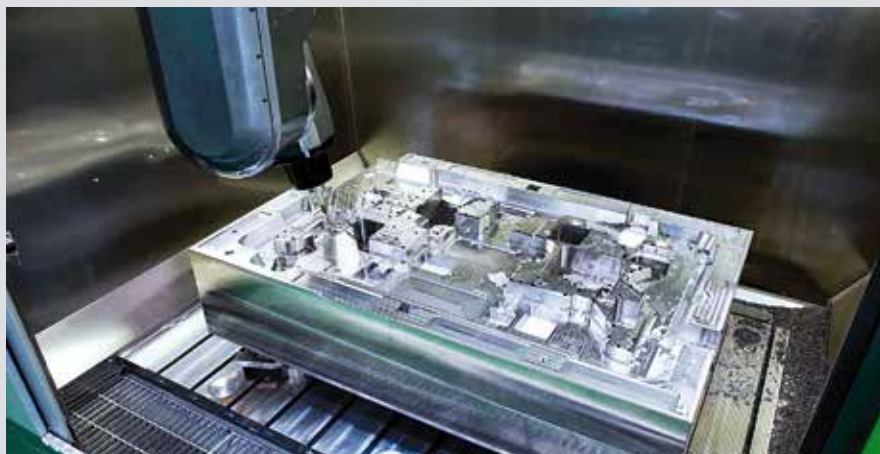
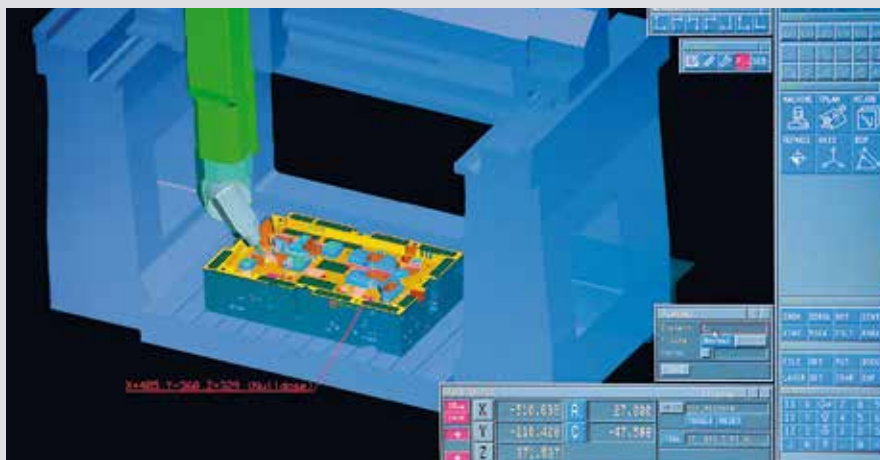
DESIGN HIGHLIGHTS

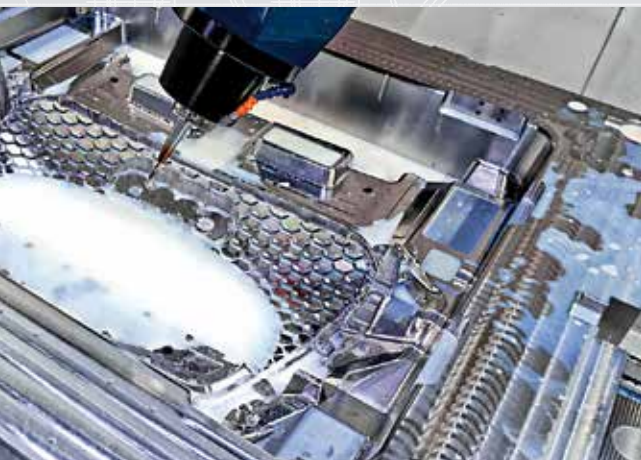
- Part design and modification
- Moldflow analysis (Autodesk Moldflow) for calculation of:
 - _ Filling (mould filling simulation)
 - _ Distortion
 - _ Calculation of mould temperature
- Realisation of an FMEA (Fault eventuality and influence analysis) for all moulds to guarantee an accurate contour mapping of product
- Pre cambering of article data to compensate for article warpage
- Construction generation in CATIA V5 and Siemens NX

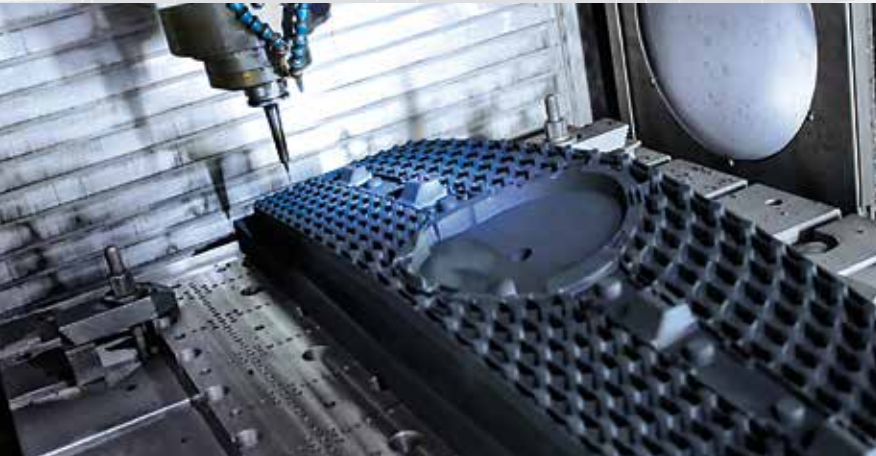
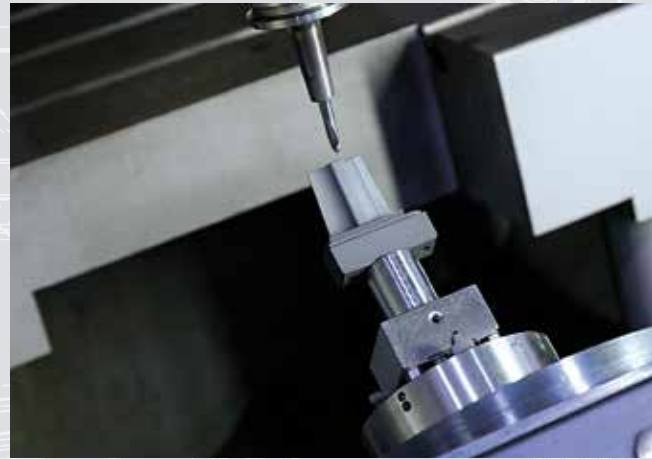
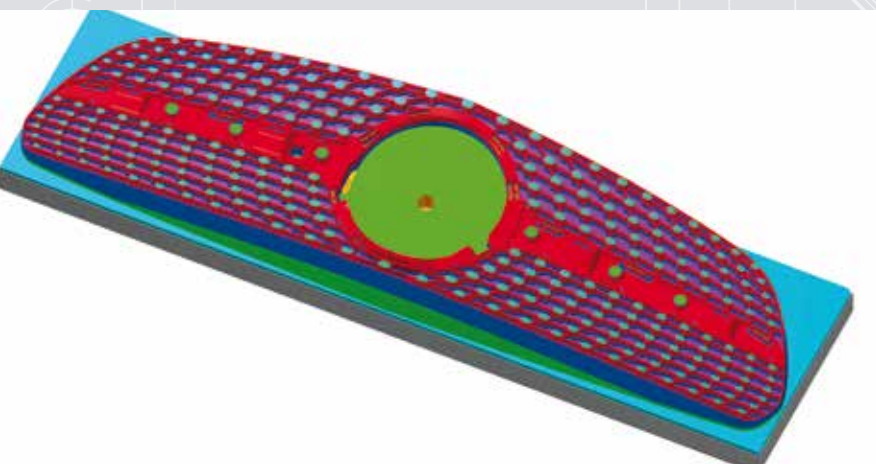


HIGHLIGHTS MILLING

- Application of milling programming software Tebis and Mastercam
- 5-achsle chipping, HSC-Milling, simulation and measuring in the machine
- Deep hole drilling, cooling channel drilling
- Fully automatic production of small parts
- Pallet loader
- 100-Percent control with milling monitoring
- Automatic tool management
- All processes carried out in house









HIGHLIGHTS ERODING

- Electrode design and programming
- Automatic electrode production with Erowa clamping system
- Electrode management with transponder technique
- 3D-measuring of the electrodes with PC-DMIS-Software
- Finished electrodes made by milling and also by eroding 1.200mm x 600mm
- Sink eroding machines dimensioned for plates up to 2.500mm x 1.500mm
- Maximal loading height for eroding 900mm
- Most modern generator technique for sink eroding
- Wire eroding, wire cutting height up to 620mm in water bath possible
- Start hole boring



HIGHLIGHTS TOOL SHOP

- ___ Tool weight up to 20tonnes
- ___ 3 spotting presses for adjustment of moulds
- ___ Production of 3 Component-Moulds
- ___ Separate modification and optimising area
- ___ Polishing area for high gloss finishing
- ___ Flat grinding
- ___ Own machine park for sampling
- ___ Laser-welding facility





HIGHLIGHTS GAUGE AND FIXTURE SHOP

- Production of removal claws
- Production of cutting and assembly fixtures
- Measuring and checking gauge for control of the injection process
- Complete process planning under one roof
- Single contact person for the whole process
- Test run and ripening of the complete process chain in the injection machine







TRAINING FINE WORK MECHANICS FUNCTIONAL DIRECTION TOOL MAKING

- Separate training department
- In house schooling
- Training in step with actual practice in all departments
- Encouragement of creativity and individual talents
- Good prospects
- Traineeship for scholars and students



HIGHLIGHTS LOGISTICS

- Own fleet of trucks up to 40tonnes
- Flexible Transport options
- 24-hour service available







— To offer highest performance means for us also to carry responsibility:

Towards our customers, offering security for precision and reliability of our moulds with the quality certificate “made in Germany” and “made by Finke”.

TO LIVE RESPONSIBILITY TOWARDS OUR CUSTOMERS, COLLEAGUES AND ENVIRON- MENT

— Towards our colleagues, their competence through continuous further education we foster their development. Their wellbeing is also fostered by an in house health management scheme, and their engagement and enthusiasm for technical innovation is supported by an open enterprise culture built on teamwork cooperation and hierarchy free communication.

— Towards the younger generation, their entitlement to a qualified start to their working life corresponds with our high training engagement in their own training department.

— Towards the environment, with gentle handling of our natural resources we show our respect by reducing emission and wasteful production processes and pursue continuously means of reducing our energy usage. The windmill at our door step is a striking example.



HIGHLIGHTS FINKE TECHNIQUE APPLICATION



- Sampling in own technical centre
- Sampling in own machine park from 250tonnes up to 1.600tonnes
- Sampling of 1K and 2K
- Supply of small series



PRECISION AT ITS BEST REFERENCES

01 »

LIGHT



02 »

CHROME



03 »

PAINT



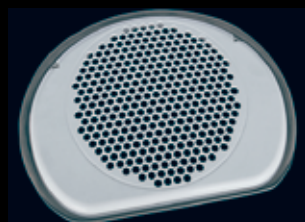
04 »

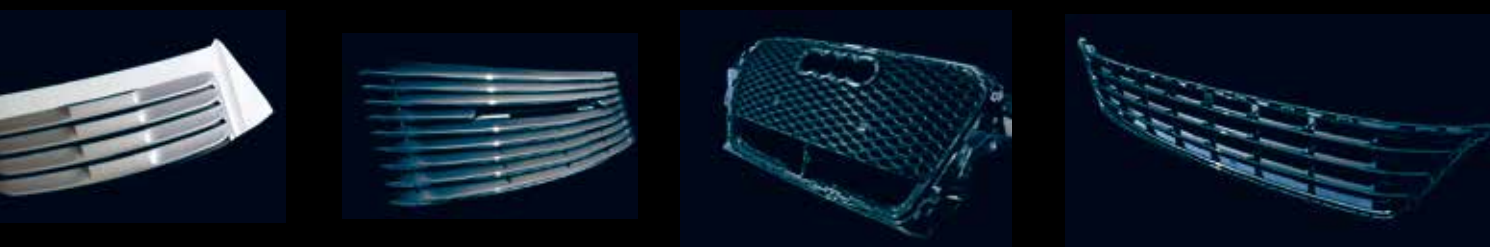
INTERIEUR/2K-SOLUTIONS



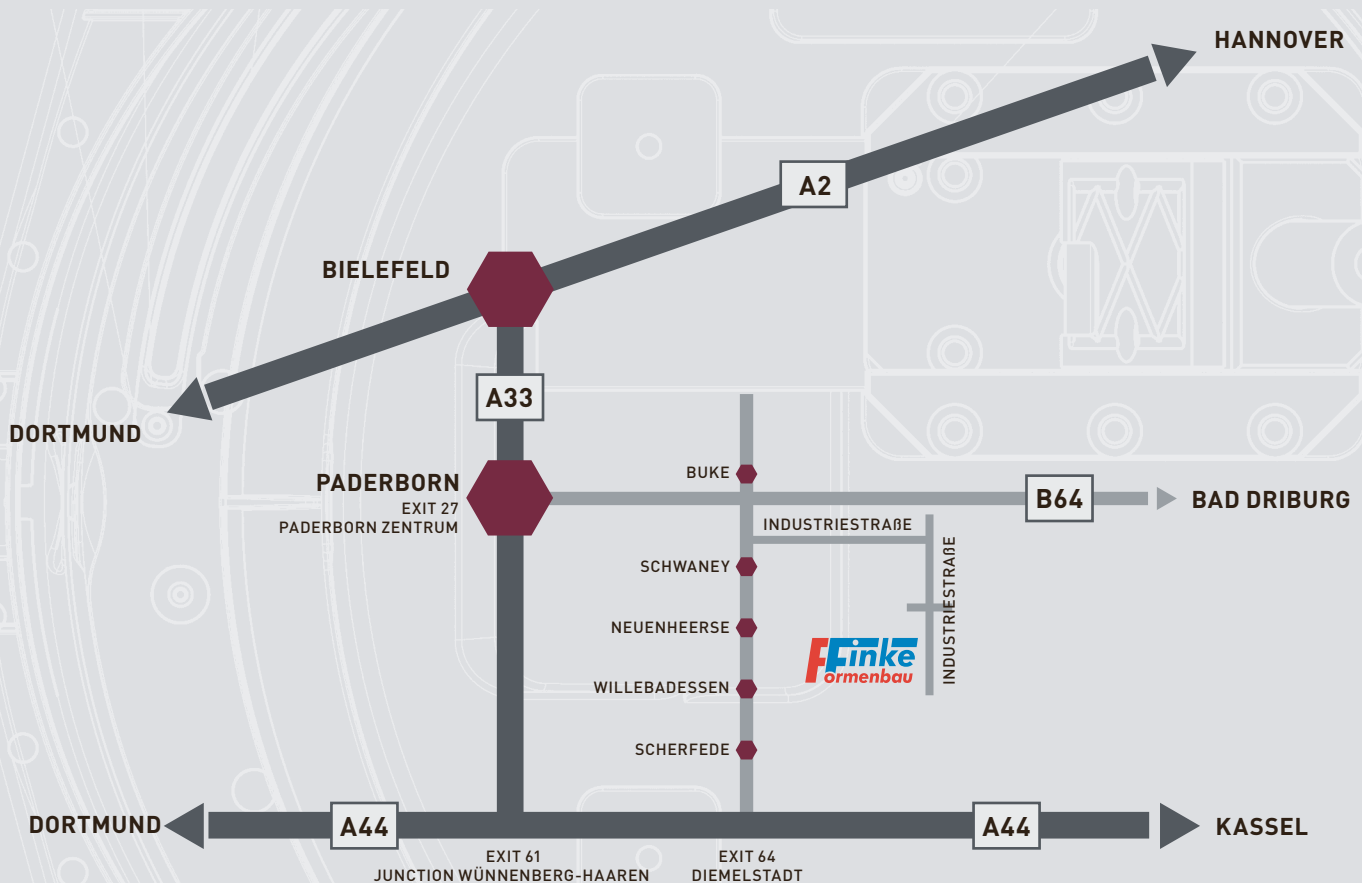
05 »

NON-AUTOMOTIVE





Have we aroused your interest? We would be pleased to take up contact with you – furthermore, should you like to convince yourself of what we have introduced in this brochure: A warm welcome to Finke Formenbau – at any time.



Write or mail us- or give us a phone call right now:



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