



Käfer Werkzeugbau GmbH

more than pure technic.

18.02.2019

KÄFER
Werkzeugbau GmbH

Content

- Employees
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- Technical competence related to tools
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- Products
- Construction
- Machinery
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dedicated for you since 1995

KÄFER WERKZEUGBAU GMBH

18.02.2019

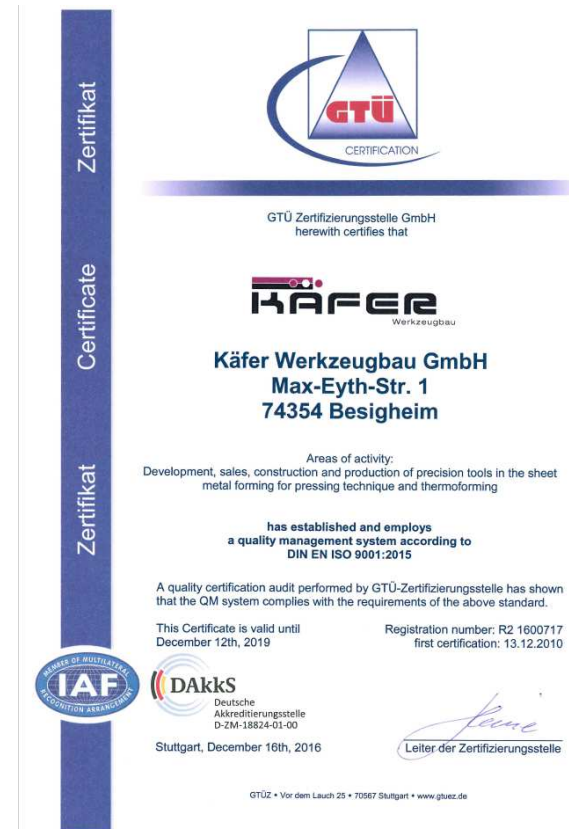
KÄFER
Werkzeugbau GmbH

Employees

- 30 employees
- 6 trainees
- Ø – age: 39 years

Quality

- Adherence to schedules
- Total Quality Management (DIN EN ISO 9001:2015)
- Made in Germany



Technical competence related to tools

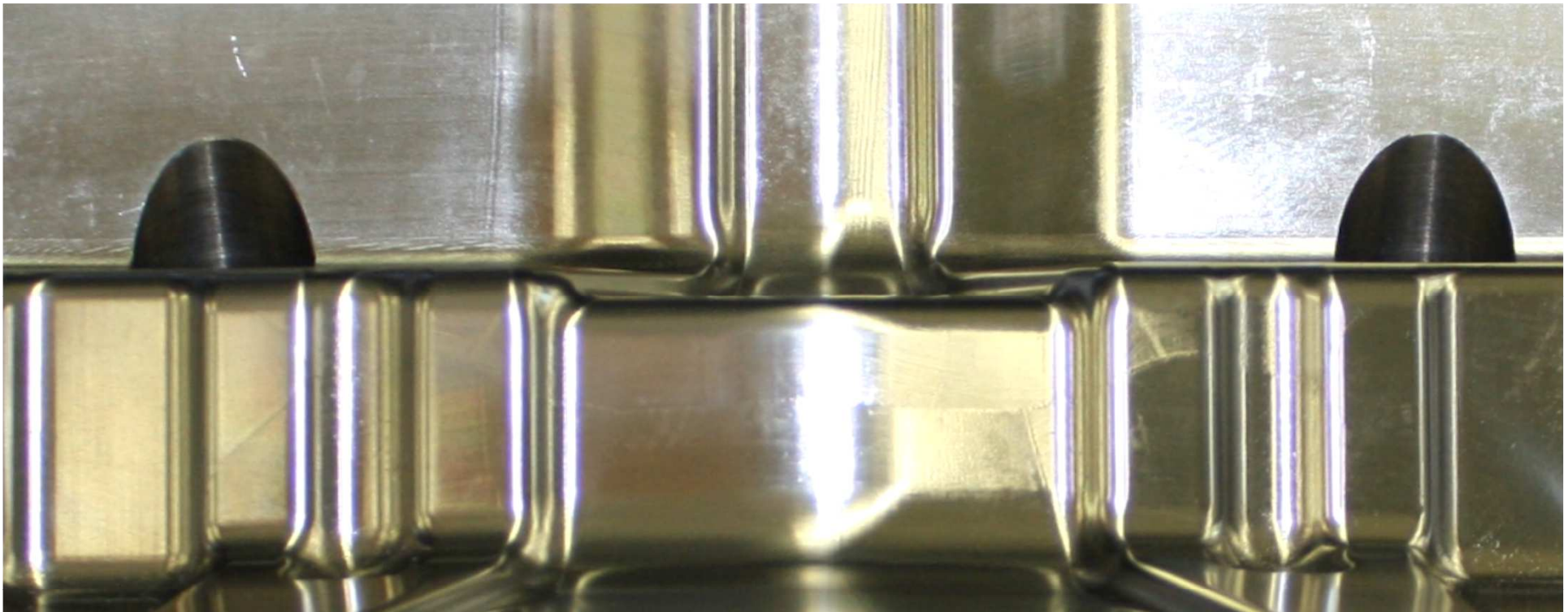
- Individual solutions:



- Ideal selection of the active component materials in the tool to increase of life
- Optimization / service / maintenance / repairs

Technical process competence

- Active support to **reduce cost** in different manufacturing processes
- **Exact process planning** and utilization of the economic and creative potential
- Cooperation with **scientific organizations**
- Continuous customer service with a direct contact



Your specialist for sheet metal forming, thermoforming, gauges and test fixture

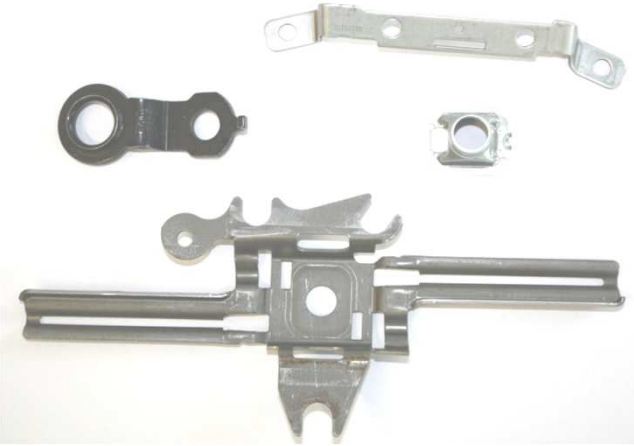
PRODUCTS



Sheet metal forming – your requirements

- You have a demand for transfer-, progressive-, insertion- and/or multi-staged tool.
- The thickness of the metal sheets needed is 0.3 to 5 mm.
- The requirements of your tooling equipment ranges between 60 – 400 strokes per minute.
- You need a high repeat accuracy tolerances of +/- 3- 5 μ .

Products



Progressive tool

- To achieve a **continuous process reliability** during stamping, we are integrating scrubbing processes, active temperature regulation and drizzle peripherals into the tools. With that we avoid to receive tinsel and/or chips in our stations during shaping and embossment.
- The design of the **tool for servo presses** will be adjusted to the need of the servo technology.
- Special tool technology to reach 70 – 80% flush-cut share at the stamped parts.
- If needed, **tool changing systems** through plug-in technology which facilitates the service and maintenance. Sensor technology and actuating elements to observe processes during stamping.
- **Consideration of tribology** during tool execution. Holistic approach of the stamping system

Transfer tool

- Tool design on servo presses with simulation possibilities to optimize the process for the motion curve (relative curves)
- **Sizes of tools up to 3 m possible (in house production)**
- Constructions of tools under consideration of equipment parameters
- Teamwork with stamping companies
- Sensor technology and actuating elements to observe processes during stamping
- Consideration of tribology during tool execution
- **Holistic approach of the stamping system.**
- Transfer tools with complex transfer tracks and grasper (in house effort)

Prototyping

- Tool execution in dependence of the future tool
- Implementation of the simulation of the tool technology
- **Manufacturing of pilot parts**
- **Short response time to execute component tests with prototypes at an earlier stage at the customer site**
- Test-bed parts for clutch test benches

Thermoforming

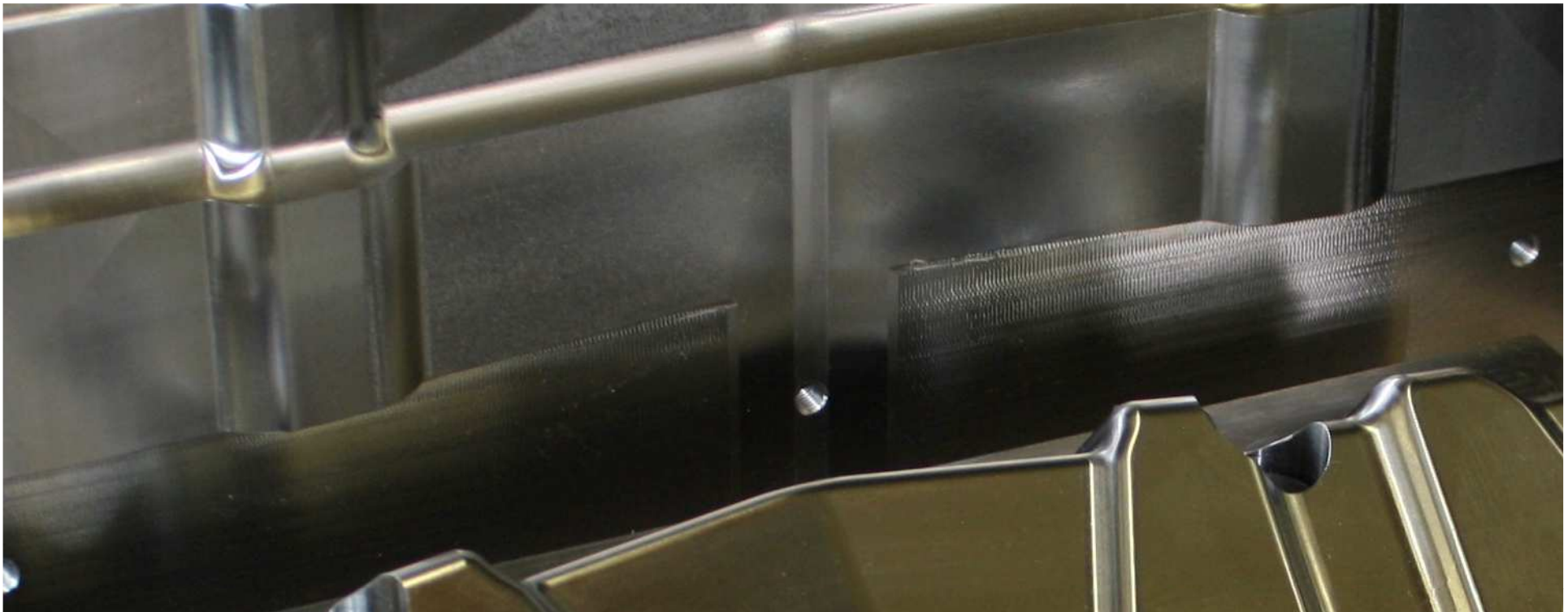
- As experienced specialists we are producing **first class thermo forms** for customers of the food- and packaging industry, electronic- as well as automotive industry.
- We are producing **individual thermo forms** that are used to manufacture drink and yoghurt cups as well as flap packages including stapling of it. Our portfolio also includes the production of **complete form-fill- and seal lines**.
- Käfer is producing high quality tools for the manufacturing of single and multi material blisters, that will be adjusted to the form of your products.
- Depending on the demand of the customer we are manufacturing highly productive forming tools that are used for manufacturing of stacking pallets as well as other components and small parts.

Gauges and test fixture

- **Our gauging area produces:**
 - individual adjustment gauges and standard reference gauges for edge adjusters of editing tools
 - Gauges to put onto the too – directly in the system or externally via a device.
 - Foreman with champion points to adjust and verify the gauges
 - Test- and tracing gauges to monitor the processes during stamping of components
- For constant product quality as well as for rational quality monitoring we are producing the **test fixtures based on your specification.**

Single parts

- Our experienced employees are producing complex single parts with the highest accuracy requirements based on your drawings and data, as well as individual assemblies including mounting.
- In addition we are producing serial parts for mechanically machined tools. For that we offer a **broad spectrum of production processes**. You'll find the performance overview in our machinery list.



Construction & machinery

OUR CONFIGURATION

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Machinery

Type	X	Y	Z
milling:			
Oerlikon MT 4 V mit FIDIA CNC 11 Steuerung	3.000	1.400	1.200
Mazak VTC-2003 Bearbeitungszentrum	1.120	540	510
2x Mazak VC NEXUS 510 C Bearbeitungszentrum	1.050	510	510
coordinate grinding:			
Hauser Sip S50 ADCOS CNC-800	900	450	180
flat grinding:			
ELB 1200	1.200	600	400
ELB Gerh.-Amb. 4/2VAII	500	375	375
Perfekt PFG-3060 AH	600	320	300
Jung HF 50	530	250	230
circular grinding:			
Karstens external and internal	1.000	max.Drm. 310 mm	
turning:			
Weiler E35/D1	950	max.Drm. 410 mm	
wire cutting:			
AGIE CUT 3000 S with max. 30°-Konik	500	350	256
AGIE CHALLENGE 2 e Cut	350	250	256
die sinking:			
AGIE - Mondo 20 mit 60 A Generator	300	250	250

Construction and process planning

- 2x VISI 3D CAD Workstation with Blank
- TopSolid'Design Pro
- VISI PEPS WIRE
- Edge-CAM 3D

Contacts



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Many thanks for your
attention



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