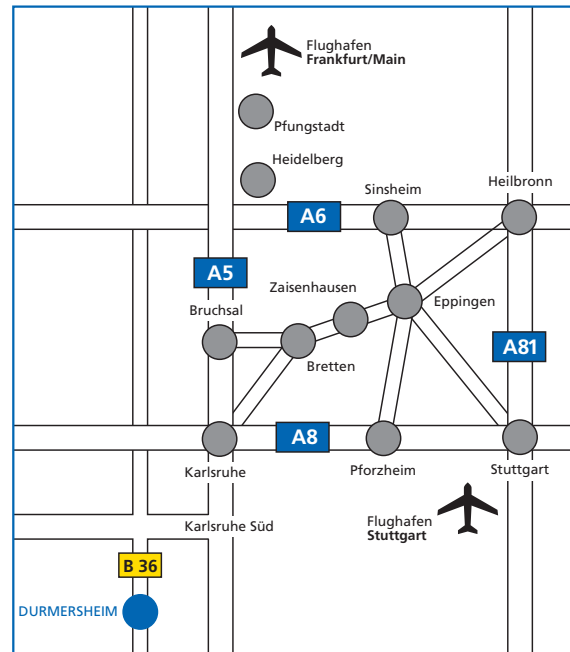


# Technology at its best

Tools for metal forming

COMPANY LOCATION

**KARLE UND JUNG GMBH**  
Werkzeug und Maschinenbau  
Dieselstrasse 7  
D-76448 Durmersheim, Germany  
Tel. +49 (0) 7245 9308-0  
Fax +49 (0) 7245 930818  
E-Mail: karle\_jung@t-online.de  
www.karle-jung.de



COMPANY LOCATIONS

**GERMANY**

**DIEFFENBACHER GMBH + CO. KG**  
Heilbronner Straße 20  
D-75031 Eppingen, Germany  
Tel. +49 (0) 7262 65-0  
Fax Panel Division +49 (0) 7262 65-377  
Fax Forming Division +49 (0) 7262 65-297  
E-mail: dse@dieffenbacher.de  
www.dieffenbacher.com

**DIEFFENBACHER GMBH + CO. KG**  
Betriebsstätte Pfungstadt  
Werner-von-Siemens-Straße 2  
D-64319 Pfungstadt, Germany  
Tel. +49 (0) 6157 803-0  
Fax +49 (0) 6157 803-109  
E-mail: dsp@dieffenbacher.de  
www.dieffenbacher.com

**DILEB MASCHINENBAU GMBH**  
Dillinger Straße 130  
D-66822 Lebach, Germany  
Tel. +49 (0) 6881 9207-0  
Fax +49 (0) 6881 9207-90  
E-mail: info@dileb.de  
www.dileb.de

**DIEFFENBACHER MASCHINENFABRIK GMBH**  
Gewerbestraße 29  
D-75059 Zaisenhausen, Germany  
Tel. +49 (0) 7258 609-0  
Fax +49 (0) 7258 8751  
E-mail: info@dieffenbacher-zaisenhausen.de  
www.dieffenbacher-zaisenhausen.de

**SCHENKMANN-PIEL-ENGINEERING-GMBH**  
Bürgerbuschweg 1  
D-51381 Leverkusen, Germany  
Tel. +49 (0) 2171 3996-0  
Fax +49 (0) 2171 3996-99  
E-mail: info@sp-e.de  
www.sp-e.de

**DIEFFENBACHER AUTOMATION GMBH**  
An der Reitbahn 13  
D-21218 Seevetal, Germany  
Tel. +49 (0) 4105 6676-0  
Fax +49 (0) 4105 6676-90  
E-mail: dieffenbacher@da-h.de  
www.dieffenbacher-automation.de

**ASA GMBH AUTOMATION UND STEUERUNGSANLAGEN**  
Im Grund 1-3  
D-75045 Walzbachtal, Germany  
Tel. +49 (0) 7203 9150-0  
Fax +49 (0) 7258 9150-11  
E-mail: info@asa-automation.de  
www.asa-automation.de

**CZECH REPUBLIC DIEFFENBACHER - CZ s.r.o.**  
Hydraulické lisy  
Ripská 15, 62700 Brno, Czech Republic  
Tel. +420 5 4842 3111  
Fax +420 5 4821 7087  
E-mail: dcz@dieffenbacher.cz  
www.dieffenbacher.cz

**CANADA**

**DIEFFENBACHER NORTH AMERICA, Inc.**  
9495 Twin Oaks Drive  
Windsor, Ontario N8N 5B8, Canada  
Tel. +1 519 979 6937  
Fax +1 519 979 6803  
E-mail: dna@dieffenbacher.ca  
www.dieffenbacher.com

**USA**

**DIEFFENBACHER, Inc.**  
1800 Peachtree St., NW, Suite 425  
Atlanta, GA 30309, USA  
Tel. +1 404 609 9911  
Fax +1 404 609 9933  
E-mail: mail@dieffenbacheratl.com  
www.dieffenbacher.com

**BRAZIL**

**DIEFFENBACHER DO BRASIL**  
AMi Internacional  
R. Tenente Aviador Mota Lima, 293  
05517-030 São Paulo- SP, Brazil  
Tel. +55 11 3721 3391  
Fax +55 11 4521 5881  
E-mail: alex.morato@terra.com.br  
www.dieffenbacher.com

**CHINA**

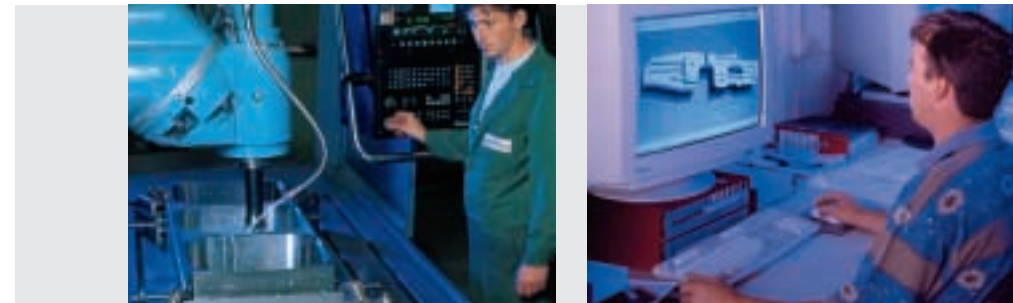
**DIEFFENBACHER BEIJING**  
Scitech Tower, Unit 1305  
22, Jianguomen Wai Dajie  
100004 Beijing, P. R. C.  
Tel. +86 (0) 10 6522 0935  
Fax +86 (0) 10 6522 0936  
E-mail: dbokiz@public.bta.net.cn  
www.dieffenbacher.cn

**ASIA PACIFIC**

**DIEFFENBACHER ASIA PACIFIC SDN. BHD.**  
Unit #11-02 11th Floor  
25 Intl. Business Park  
Menara Multi-Purpose, Capital Square  
No. 8 Jalan Munshi Abdullah  
50100 Kuala Lumpur, Malaysia  
Tel. +60 3 7490 0183  
Fax +60 3 7490 0184  
E-mail: DAP@dieffenbacher.com.my  
www.dieffenbacher.com

**RUSSIA**

**DIEFFENBACHER MOSKAU**  
Kutuzovsky Prospekt 36  
121170 Moscow, Russia  
Tel. +7 095 290 85 03  
Fax +7 095 290 81 30  
E-mail: dieffenb@aha.ru  
www.dieffenbacher.ru



99-9981-00-38-00 We reserve the right to discontinue or change specifications or designs at any time without notice or obligation! meirems 09/04.0.8

www.karle-jung.de

**karle+jung**  
DIEFFENBACHER GROUP

## Technology at its best



Company view

### Scope of delivery

- Advice, project and design studies, simulations
- Tools and complete systems for metal forming
  - Progressive dies
  - Drawing tools
  - Bending tools
  - Trimming and punching tools
  - Stamping and sizing tools
  - Special die cushions
  - Punching devices with drive
  - Welding devices
  - Conveyors and handling systems
- Further services as pilot production runs, start-up and final acceptance tests, service, etc.



Tools during assembly in the toolmaker's shop



Setup of a wire EDM machine

### Company profile

- Engineering 4
- Household and medical technology 6
- Automotive manufacturing technology 8
- Aftersales service and job orders 10

### Experience and innovation

These attributes are closely linked with the name Karle & Jung. For more than 25 years, over 50 motivated specialists have worked together to solve your individual forming tasks economically. From advice and planning, to design and production, to final acceptance and pilot production runs we offer you flexible system solutions that are setting new standards. We combine your ideas or product data with our know-how to achieve a concept made to measure.

As a company of the Dieffenbacher group we not only make use of the most modern planning and production technologies, but also utilize the synergy effects from the other company divisions. We place great importance on individual advice and service. Whether you want to draw, trim, bend or punch your sheet metal – we will be your competent partner.

### Use our competence for:

- More efficiency by:
  - rationalising production sequences
  - reducing setup times
  - high reproducibility
  - longer tool life
  - optimum material usage
  - reduced energy consumption
  - short delivery times
- High flexibility by
  - innovation
  - modular systems
  - interchangeability of tooling elements
  - transfer of customer data by remote data transmission
  - short reaction times
- better quality by
  - high qualification of our staff
  - use of the most modern CNC machinery
  - choice of material oriented towards application
  - competence in press technology and tribology
  - extensive experience of application technology

Setting standards for the future.

## Common targets linked together



### Performance on which you can count in every respect

- experienced design engineers and tool designers
- most modern computers and software tools
- simulation systems for optimising process techniques
- ample knowledge of application technology

From conception to commissioning – you will get extensive assistance from experienced experts

New ideas secure new markets, therefore, intensive development work forms the focus of attention of our company philosophy. We use highly efficient CAD/CAM systems for development and production. With our most modern 3D software tools we even are able to develop a photorealistic product design out of your idea. We can thus give you a realistic impression of the final product before starting tool production. This can be used as a basis for design optimisation as well as for the first presentation of the product.



Design study

After product release, the data gained from engineering and design is transferred to the CNC tool machines via DNC operation. In an online dialogue between engineering, production, and quality assurance, your individual tool is built, with precision and economic efficiency. And in order that you do not take any chances, all tools are extensively tested on Dieffenbacher presses in our tryout center.



Photorealistic display of the product



High performance cut on a CNC milling machine

We have individual solutions.

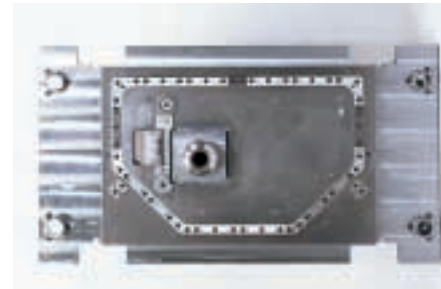
## Aesthetics and functionality



2nd draw tool for the manufacture of a 1 1/2 bowl sink



Trimming tool for a corner sink



Variation of sink models



Household appliances



Household and medical technology

### For every demand the right technique

Today's market imposes great demands on products. Variety and functionality are just as relevant for a decision to buy as an attractive design and ergonomics.

We do justice to these demands. By means of modularly structured and flexible tool systems, individual ideas can be realised quickly and economically – however unusual they are, and with an outstanding quality standard.

Not without reason we are the market leader in the field of tool manufacturing and application techniques for stainless steel sinks.

The monobloc production method developed in co-operation with Dieffenbacher for every kind of sink has been accepted worldwide for its high quality, efficiency and economic viability.

### Persuading performances:

- fast reaction to customer's demands by most modern development and manufacturing technologies
- flexible and economic precision tooling even for very small batches
- modular tooling conceptions
- reasonable cost-benefit ratio

Company profile 2

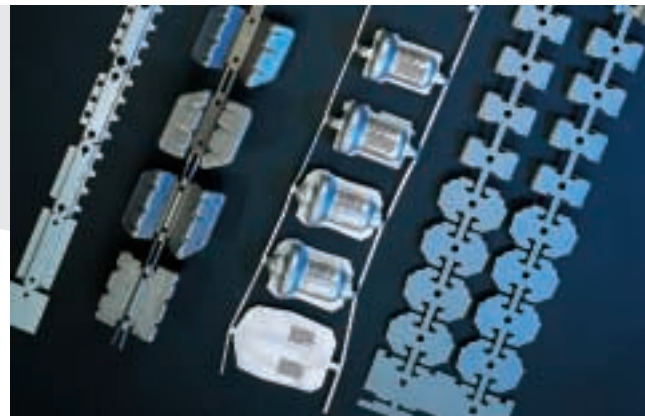
Engineering 4

Household and medical technology 6

Automotive manufacturing technology 8

Aftersales service and job orders 10

## Precision and Safety



Progression composite parts for the automotive industry



Complex 3-D machining



Structural parts for the automotive industry

Company profile 2

Engineering 4

Household and medical technology 6

**Automotive manufacturing technology**

Aftersales service and job orders 10

### Toolings for innovative products

A car is only as good as its parts. They must be manufactured with utmost precision in order to grant safety and functionality. Here lies our strength.

Our tooling systems offer a maximum of accuracy, availability and quality.

Preconditions that put you into the A class despite tough competition.

### Profit from experience:

- troublefree transfer and conversion of customer data
- visualisation of complex 3D dies
- progressive dies
- reduction of wear by use of most modern coating technologies
- issuance of test records during final acceptance
- quick and reliable maintenance and repair

We assume responsibility.

## Aftersales service and job orders

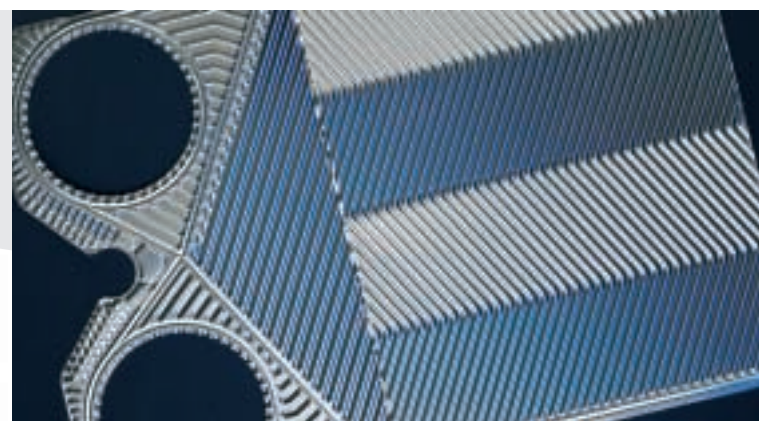
Company profile 2

Engineering 4

Household and medical technology 6

Automotive manufacturing technology 8

Aftersales service and job orders



Highly complex heat exchanger plate



Steam cooker cases



Just-in-time delivery

### Know-how and reliability

Permanent success is only achieved by someone who reacts quickly and flexibly to the most different situations such as special customer demands or problem situations. And for this you need reliable and experienced partners that know the subject and can act immediately. Partners such as Karle & Jung.

For decades we have been familiar with the hard routine of everyday industrial life and its problems. So we have adapted our service concept exactly to this experience.

Service starting with the individual advice and the detailed analysis of the nature of your task. Our performance potential is completed by the possibility of producing parts on the presses in our tryout centre where we handle, above all, niche products or parts that are produced in small batches. Our deliveries are based on the KANBAN system – reliable and of high quality.

Because of this production facility we can determine feasibility. And as your success is also our success, our service does not end with the final acceptance.

Hands-on training is just as natural for us as our world-wide service. Thus you can be sure that you will always be in unbureaucratic contact with experienced experts who are well versed in tooling and manufacturing technology and will competently advise you.

### Tryout centre equipment:

- Dieffenbacher drawing press, 12,000 kN with MPC system
- Dieffenbacher drawing press, 12,000 kN, die cushion acting actively/passively
- Dieffenbacher trimming press, 4,000 kN
- CNC lubricator with spraying technique
- modular die cushions for special applications

We will attend to your needs.