

**PUNCHING. HARDENING. SHARPENING.**

**SOLUTIONS FROM SOLINGEN – WORLDWIDE IN DEMAND**

PUNCHING FOR THE CUTLERY INDUSTRY

# PRECISION PARTS AT THEIR BEST



Optimal raw materials form the basis of a high-quality final product. Not only the cutlery industry relies on our special expertise regarding the production of knife and scissor blanks but also providers in the field of machine and systems technology. We manufacture specially punched blades and similar parts for these customers, e.g. for use in the areas of agriculture, textile, paper, or medical technology. Our machines and know-how allow a high deformation degree and maximum precision as well as the punching of a wide material range and large variety of individual shapes according to the customer's requirements.

## SERVICES

- Manufacture of small, medium and large series of punched parts, knife blanks and special blades with up to 300 t of pressure
- Difference way presses and automatic punching presses
- Tool conception, construction and tool care

## CONTACT PUNCHING DEPARTMENT:

Peter Scheer

Tel: +49 (0)212 6589515

scheer@fluegel-css.de

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ONE STEP AHEAD.

PROTECTIVE GAS HARDENING SHOP

# STRONG PERFORMANCE FOR STRONG PRODUCTS



Our hardening shop specializes in the heat treatment of stainless steels under protective gas. We do not only harden our own products there but perform efficient and high-quality contract works for industrial clients as well. Our customers value our flexibility and adherence to schedules and benefit from our hardening services which also allow for highest stability and durability in the case of products with relatively low material thickness. Consistent monitoring of the furnace parameters and inspections during production constantly ensure perfect results.

## SERVICES

- 3 conveyor belt furnaces with rapid quenching under protective gas for corrosion-resistant and other air-hardening materials
- Vacuum hardening with convective heating and gas pressure quenching for cold and hot working steels, high speed and powder metallurgical steels, corrosion-resistant steels
- Bright annealing of chrome-nickel steels/deep-freezing
- Contract degreasing in environmentally friendly facilities
- Logistics, consulting and hardening services

## CONTACT HARDENING SHOP:

Peter Schumacher

Tel: +49 (0)212 6589517

[schumacher@fluegel-css.de](mailto:schumacher@fluegel-css.de)

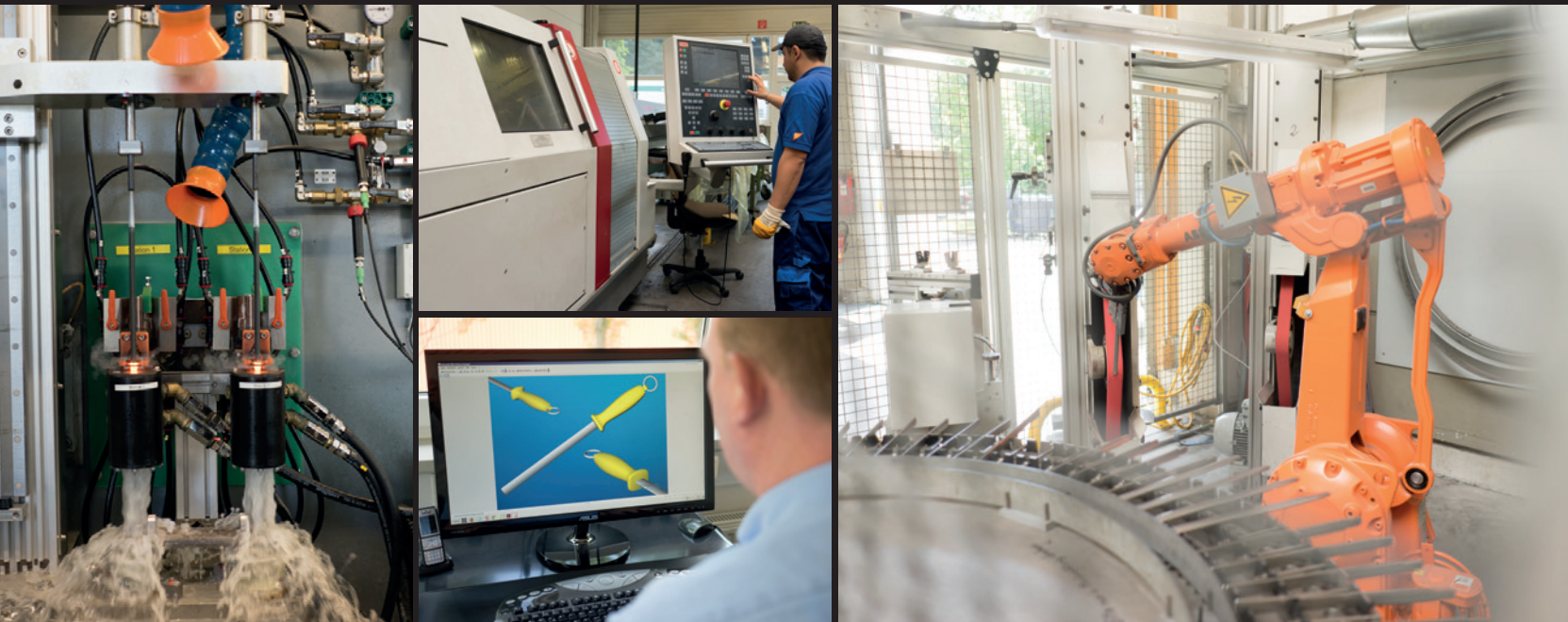
## Flexibel einkaufen mit Profikauf

Dynamische Märkte brauchen flexible Produkte  
[www.stadtwerke-solingen.de/profikauf](http://www.stadtwerke-solingen.de/profikauf)



SHARPENING STEELS AND KNIFE SHARPENING SYSTEMS

# SHARPNESS IS OUR CORE COMPETENCE



Sharpening steels and knife sharpeners for private and professional use are our specialty. We produce in numerous model variants and different materials for globally operating brand manufacturers and wholesale dealers – e.g. suppliers in the butcher and slaughter industry – in order to provide suitable solutions for every application. We are continuously developing our range to optimize ergonomics, handling and quality as well as the price-performance ratio of our high-quality products.

## SERVICES

- Quality sharpening steels from Solingen
- More than 500 model variants
- For every scope of application
- Durable and reliable
- Oval or round
- Steel, diamond or ceramic
- From experts for experts

## CONTACT SHARPENING STEELS:

Eike Sträter (CEO)

Tel: +49 (0)212 658905

info@fluegel-css.de

Diese MultiMedia Broschüre  
wurde konzipiert und gestaltet  
von **JS Deutschland**



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www.jsdeutschland.de

**Heiko Radtke Gebäudereinigung**  
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**Heiko Radtke**

Uhlandstraße 78 C  
42699 Solingen

Mobil: 0157 37563618

Tel: 0212 72588569

Fax: 0212 4014063

info@gebaeudereinigung-solingen.de  
www.gebaeudereinigung-solingen.de

A COMPANY WITH EXPERIENCE AND FUTURE

# TRADITION. INNOVATION. PERFECTION.

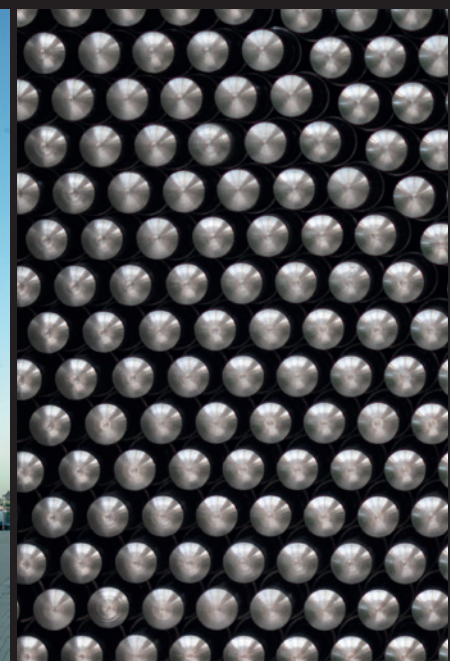
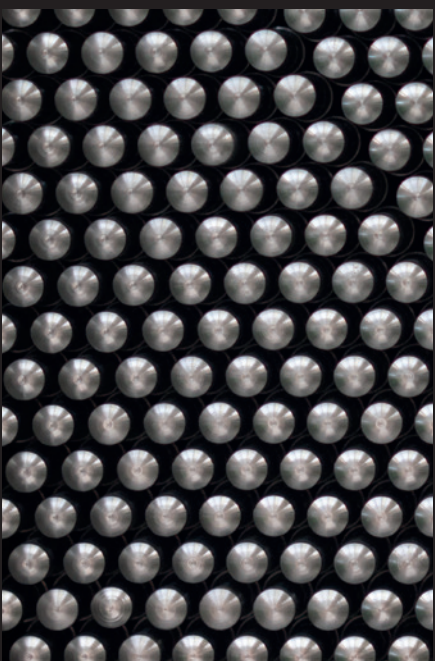


In 1908, Flügel CSS was founded in Solingen – the heart of German cutlery production – and has developed from a small engraving business for the regional cutlery industry into an internationally successful company. Today, we are one of the global leaders in the manufacture of quality sharpening systems and our customers include premium brands for cutlery and household items as well as demanding specialist and wholesale dealers. The production of sharpening steels and knife sharpening systems, the punching of cutlery blanks and other customized punching parts as well as contract hardening specializing in air-hardening materials are part of our service range. We are active in these areas for industrial customers of various sectors.

110 years of experience, modern production facilities, efficient processes and the flexibility and innovative power of an owner-managed company make Flügel CSS a professional partner for its customers who offers specific added value in competition. We have the competence and capacities to take over individual production steps or the complete manufacture – from small to large series. A high production depth and special know-how enable us to optimally respond to the respective fields of application and customer requests. We stand for products and services of perfect quality “made in Solingen”. All company processes meet the requirements of DIN EN ISO 9001:2015. The resource-saving, emission-free and low-waste production technologies equally live up to economical and ecological standards.

We prove our level of performance time and again through optimized services and continuous new and further development of products and materials and create best future prospects for our customers, thus for ourselves.

 **Flügel CSS**  
Cutlery Services Solingen



**Flügel CSS GmbH & Co. KG**

An den Eichen 10  
42699 Solingen  
Germany

Tel: +49 (0)212 658905  
Fax: +49 (0)212 6589590  
E-Mail: [info@fluegel-css.de](mailto:info@fluegel-css.de)

[www.fluegel-css.de](http://www.fluegel-css.de)