



Gutekunst
Formfedern GmbH



REALM OF IDEAS





Welcome to the realm of ideas!

Small cause, big effect: as classic precision parts, springs are true space-saving wonders of functionality. They combine “simple” with “complex” in an almost playful way. They are used in mechanical engineering, the automotive industry and medical technology, and in many other industries.

As insignificant as they seem, they are capable of transforming a specific functional requirement into an ingenious mechanism. Fascinatingly intricate! For us at Gutekunst, shaped springs have a special appeal.

Yes, constructing high-performance springs is real precision work. But in order for them to do precisely what they are intended to do, industry expertise and experience are required as well as unconventional ideas – and real lateral thinking qualities.

At our headquarters in the Swabian town of Pfalzgrafenweiler, we cultivate a corporate culture in which this wealth of ideas can fully blossom.

Welcome to Gutekunst.

Spring ideas in top form

When it comes to individuality and design, the possibilities are endless - from complex shapes that are manufactured on up to five levels to shapes with multi-purpose characteristics. Anything is possible. Your requirements, CAD data, drawings or models provide us with a good basis to apply our innovation and achieve optimal shapes - developmental edge included. The result after almost three decades of spring technology: a unique variety of shapes. Immerse yourself in the world of Gutekunst ...



Creative solutions for many different industries:

- CAR MANUFACTURING
- AIRCRAFT CONSTRUCTION
- MECHANICAL ENGINEERING
- PLANT CONSTRUCTION
- PRECISION MECHANICS
- MEDICAL TECHNOLOGY
- ELECTRICAL ENGINEERING
- SANITARY ENGINEERING
- FOOD TECHNOLOGY



SMALL SPRING TECHNOLOGY

As a specialist in spring technology, Gutekunst produces moulded springs, flat springs, leaf springs, punched and bent parts, laser parts, wire bending parts and box springs made from all flat and round steels. Take a look at the variety of springs made by Gutekunst.

Moulded springs, flat springs and leaf springs in numerous shapes and designs

Customised and short-notice production based on your requirements, CAD data, drawings or models. Manufactured on CNC-controlled laser and folding machines, we guarantee extremely high component precision and a repetition accuracy of ± 0.05 mm.



Box springs for industrial use

We manufacture customised industrial box springs according to your special requirements, CAD data, drawings or models.



Punched and bent parts made of steel, stainless steel or spring steel

With our in-house tool making and modern punching, bending and folding machines, we can produce even the most difficult shapes of the highest quality on short notice. Simple and complex punched parts in all conceivable materials and shapes are possible.



Wire bending parts made from various industrial steels and metals

At Gutekunst, wire bending parts are made using the latest or conventional manufacturing technology. We can produce any desired shape on special bending machines, including designs with multi-purpose characteristics.

Spring clips for fixing or adjusting

Depending on their application, spring clips can be made out of pre- or post-hardened material. For technical springs, all common materials can also be processed and surface treated.

Spring steel strips with various degrees of elasticity and characteristics

Our particular strength is an outstanding inventory of a variety of spring steel strip types, available as cut-outs or on a ring, as well as in various dimensions and material types.

Laser parts in steel, stainless steel and aluminium

For precision parts, laser cutting technology provides the highest accuracy, maximum customisation and the best cutting quality in terms of the optimal fit and geometry. Our state-of-the-art laser machines can produce components in any desired shape on short notice.





**Competitive edge
through technology**

Manufacturing profile

› PRODUCTION AREA:

Flat material thickness 0.1 to 3.0 mm
Material widths available on request
Round wire diameter 0.2 to 4.0 mm

› MATERIAL TYPES IN STOCK:

1.4310, 1.4301, CK75G, CK75H, CuBe2, CuSn6, ALMG3, Mk101, 1.4568 (other industrial steels available on short notice)

› SURFACE TREATMENTS:

Galvanised coatings, electropolishing, glass bead or shot blasting, burnishing, phosphate coating, plastic coating, nitriding (other treatments on request)

› MACHINERY:

Trumpf laser cutting machines, Bihler bending machines, Post CNC punching and bending centres, hardening systems, wire eroding machines

› TOOLMAKING:

Internal department for prototypes, small batches and series tools

› DEVELOPMENT SERVICE:

Development according to requirements profile, CAD data (2D/3D), drawings and models

› CAD/CAM SYSTEM:

Transfer and processing of all CAD data formats in 2D and 3D

› QUALITY MANAGEMENT SYSTEM:

Process-oriented quality management system "PROFIT" in compliance with the various industry guidelines

› CERTIFICATION:

In accordance with DIN EN ISO 9001:2008, 14001, OHSAS 18001. Member of the EFQM Foundation

The diversity and individuality of our range of springs is also reflected in our production facility. With our state-of-the-art and extensive fleet of machines as well as our own tool making department, we are able to guarantee you efficient and fast production of prototypes, small batches and large-volume series. From 2 to 500,000 springs, anything is possible.

OPTIMAL PRODUCTION PROCESSES, DEPENDING ON THE REQUIREMENTS AND CHARACTERISTICS OF THE PRODUCT

- › Laser, punching, bending, folding and wire eroding processes
- › Accuracy up to +/- 0.05 mm
- › Up to 3.0 mm material thickness, up to 4.0 mm wire thickness
- › Laser cut-outs conceivable in all variations: from 0.1 to 3 mm strip thickness

EXPRESS LASER MANUFACTURING



- › Within 24 hours after submitting a detailed request
- › 48 hours* after placing an order, parts (without folded edges) are ready for dispatch

* Taking into consideration our normal business hours

A GREAT DEAL OF **COMMITMENT AND PASSION** GOES INTO EVERY SPRING





True girl power



Active environmental protection



FACTS AND FIGURES

THAT SPEAK FOR THEMSELVES



In **1990**

Gutekunst Stahlverformung KG was founded, and a successful spring story took its course.



72285

Our home is the Swabian town of Pfalzgrafenweiler, whose residents can do anything – except for speak High German.



Over **100**

innovative, hard-working employees pull out all the stops for you.



11

awards as “Top Innovator” (as of 2017) are the best evidence for the unmatched innovation in the company.



30 %

more energy efficiency has been achieved through modern production technology. After all, we are also making progress when it comes to innovation for the environment.

Around 3,500

spring solutions are developed per year for our customers in various industries – from car manufacturing to medical technology.

At least 10 years

of active service at Gutekunst by 65 employees. A wealth of experience goes well with a wealth of ideas.

INTERVIEWS WITH THE SPRING EXPERTS

Get inspired by exciting insights into the world of spring technology and read the detailed interviews with three spring experts at www.gutekunst-formfedern.de



THE LORD OF THE SPRINGS

Josef Sökler, Head of Production and Operations Planning, on optimal processes: from the idea to implementation.



THE TINKERER

Diego Cusa, Head of Development and Design, on the appeal of customised solutions.



DRIVER OF INNOVATION

Managing Director **Hagen Gutekunst** on a creative company climate, idea islands and incredible dart throws.



OVERVIEW OF ALL CONTACTS

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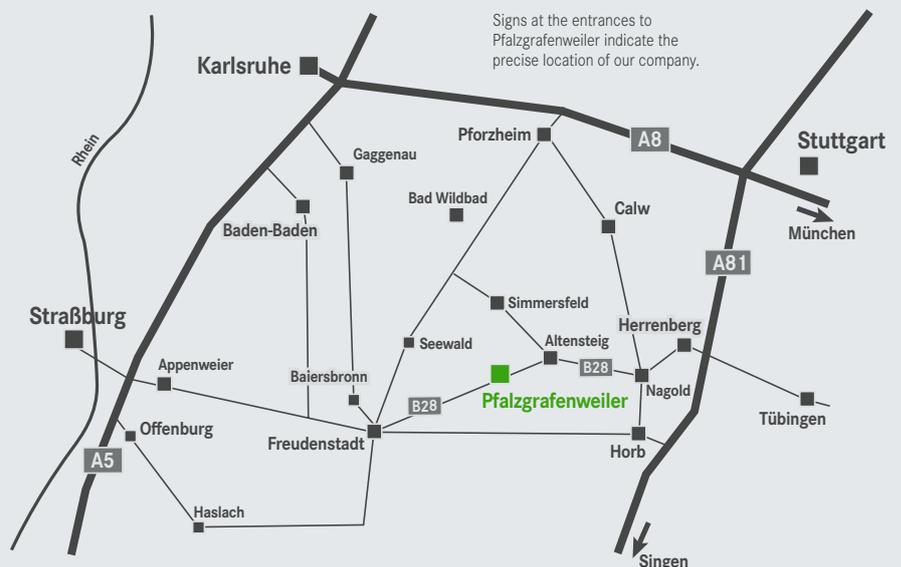
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