

ALCOMEX SPRINGS GROUP

YOUR PARTNER IN SPRING SOLUTIONS

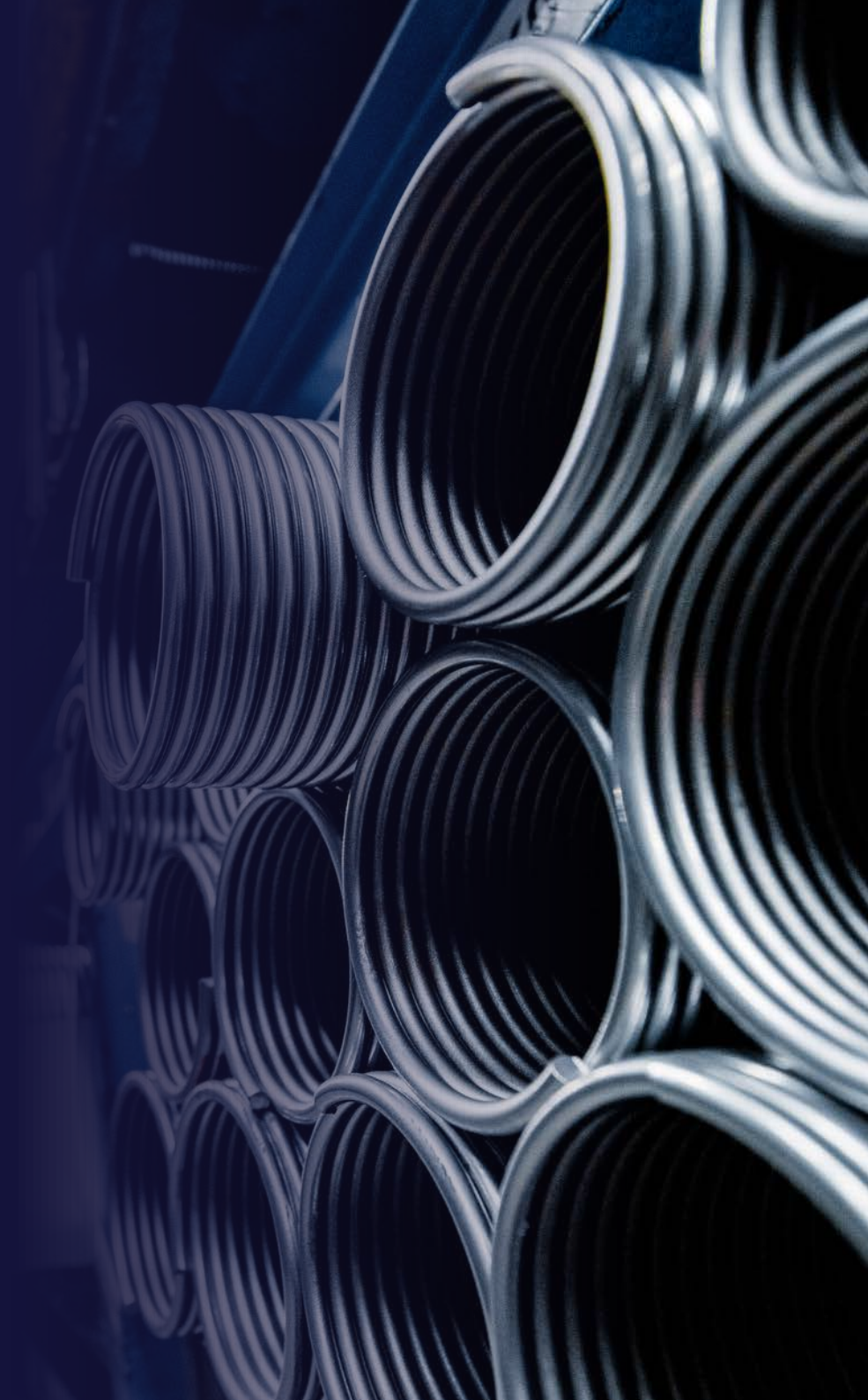
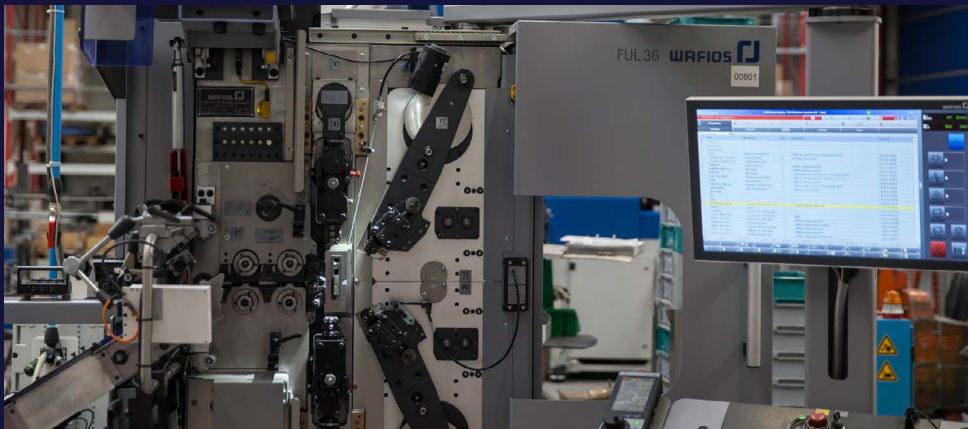
With extensive capabilities in R&D, technical support, advanced spring production and ultimate customer service and quality, Alcomex Springs Group is your dedicated partner in engineered spring solutions.

www.alcomexsprings.com

WELCOME TO ALCOMEX

As a vital part of our customer's end product application , installation or process, our springs absorb loads, accumulate energy and exert force in a wide range of industries. To ensure the highest quality and performance of our springs we offer customers access to our:

- **Technical capabilities:** R&D- and production engineers engaging from project start up to development, production and implementation of springs. Supported by modern facilities for design and testing;
- **Production capabilities:** efficiency and quality through operating advanced and high-quality production lines featuring the latest Wafios, OMD and Bihler production machines. A wide range of materials and dimensions;
- **Customer service capabilities:** technical support, shared know how, joint development, short lead times, JIT, rapid prototyping, easy ordering and the drive to serve our customer in all phases of the product lifecycle;
- **Dedication to quality:** the Alcomex Quality Management System, evidenced by ISO certification, in combination with customers'- and industry performance standards, provides excellent product quality and continuous improvements.

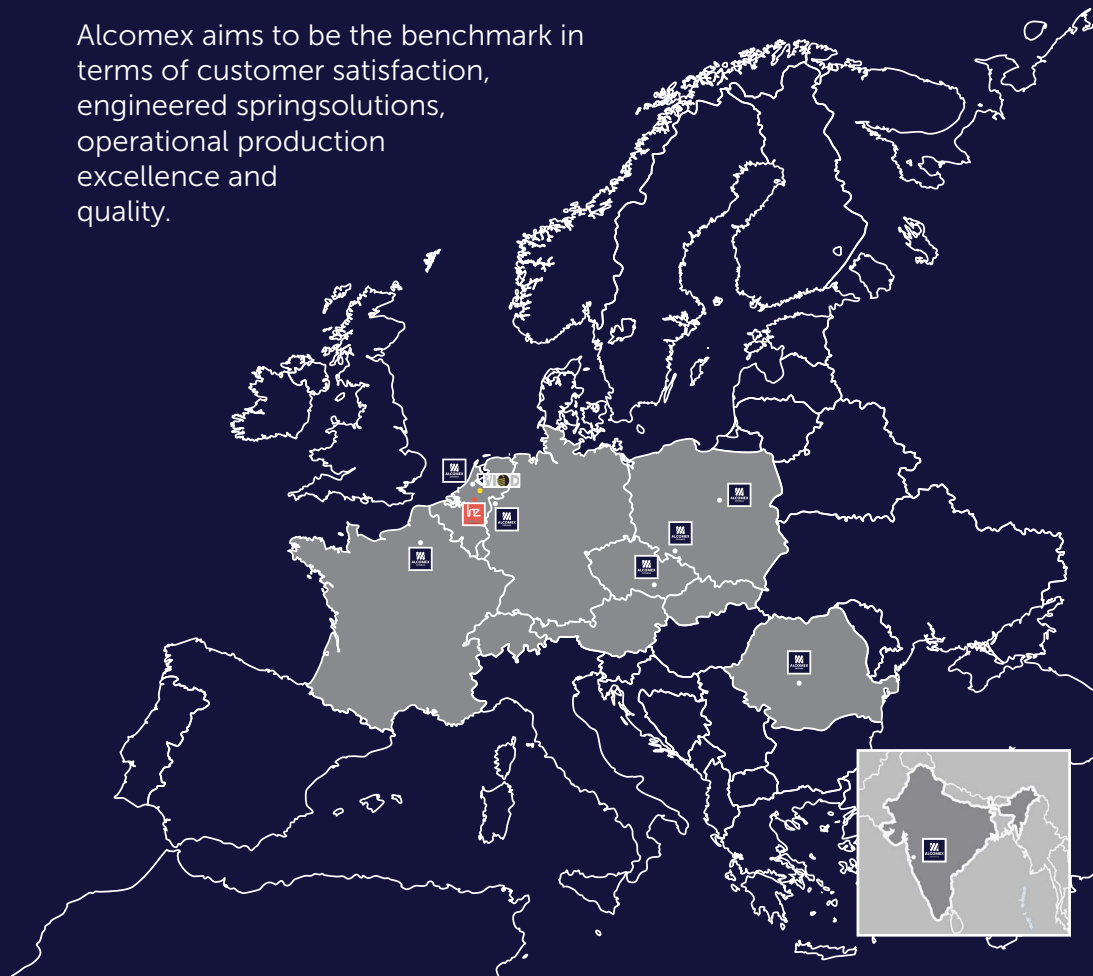


SPRING PEOPLE

We employ over 300 dedicated spring people worldwide. Out of modern production- and distribution centres in:

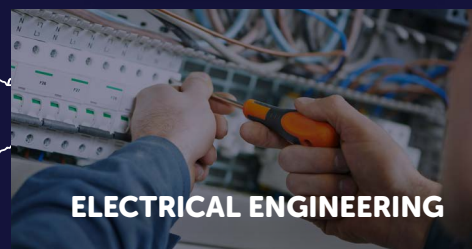
- the Netherlands,
- Czech Republic,
- Germany,
- Poland,
- Romania,
- France,
- India,

Alcomex aims to be the benchmark in terms of customer satisfaction, engineered springsolutions, operational production excellence and quality.



APPLICATION

Available in a wide range of dimensions and designs, our springs, wire forms and fastening solutions are being applied in a wide range of industries.



MULTIBRANDED PRODUCT GROUPS

Our three brands, Alcomex, HZ Solutions and VIOD, have successfully proven themselves in providing a specific expertise in product and production, offering complementary opportunities and capabilities as valuable divisions of the Alcomex Springs Group.

OUR BRANDS



HZ SOLUTIONS

A proven, long-term partner, operating as an external, yet integrated R&D- and engineering department for international OEM's in a wide range of industries. Flexible tooling capabilities and scalable production series in innovative fastening systems, springs, clips and wire forms.



ALCOMEX

The European technical specialist in industrial spring solutions for small to medium sized batches for multiple 'high-tech' industrial applications and the leading manufacturer of tension, torsion springs for overhead doors.



VIOD

Solid customized solutions in a wide range of industrial and after-market automotive applications in larger wire diameters steel spring wire: car springs, compression spring, tension springs, motor cross springs, racing springs, stabilizer bars and more.

OUR PRODUCT GROUPS

INDUSTRIAL SPRINGS

Available in a wide range of dimensions and designs, from stock or made to order based on customer specifications. Springs, wire forms and fastening solutions, in applications ranging from simple industrial products to high-quality machines, from construction products to the lightning industry and from coffee machines to aircraft manufacturing and healthcare equipment.

ALCOMEX
HZ SOLUTIONS
VIOD



DOOR SPRINGS

Alcomex is the leading manufacturer of springs for overhead doors. Known for just-in-time service, high quality, technical expertise and competitive pricing. Out of production facilities in the Netherlands, Poland and India, tension- and torsion springs are distributed to OEM door manufacturers throughout Europe.

ALCOMEX



AFTER-MARKET AUTOMOTIVE SPRINGS

We offer a dedicated, proven range of automotive replacement springs for: cars, rally cars, racing cars, EV's and 4x4. In motocross competition, Q-Springs branded products offer competitive edge for winning performances.

VIOD



PRODUCTS AND SERVICES

Always in search for the latest production techniques, we produce springs on advanced and high-quality production lines: CNC-directed bending, grinding and coiling machines, multi slide stamping and forming machines, tool making capabilities, thermal and treatments facilities and extensive semi-automatic craftwork departments. We are able to deliver you the range, materials and services as mentioned below.

RANGE:

Over 6.000 different spring products:

- compression springs
- torsion springs
- leaf springs
- retaining springs
- disc springs
- extension springs
- wireform springs
- die springs
- door springs
- finger springs
- sinusoidal springs
- and many other products.

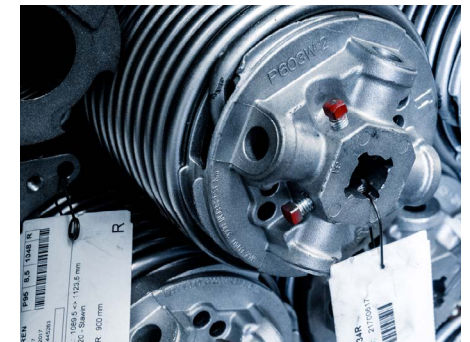


SERVICE LEVEL AGREEMENT OPTIONS:

- **Off-the-shelf.** Stock of standard springs available, in all types and sizes, in our local warehouses. Web shop ordering.
- **Configured-to-order.** Production based on designs and/or samples, material and size can differ from order to order. With calculation and selection software, springs are configured and produced to order.
- **Co-engineering.** The highest level in Alcomex engineering capabilities. We jointly design spring solutions for any specific demand.

MATERIALS AND SIZES:

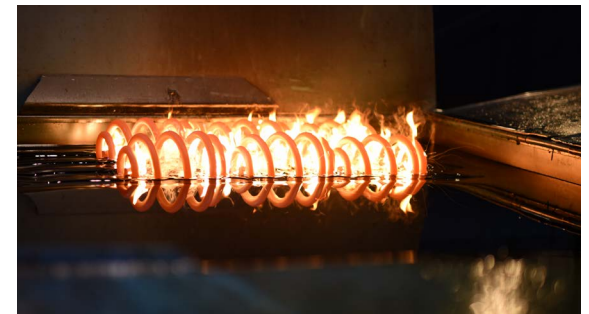
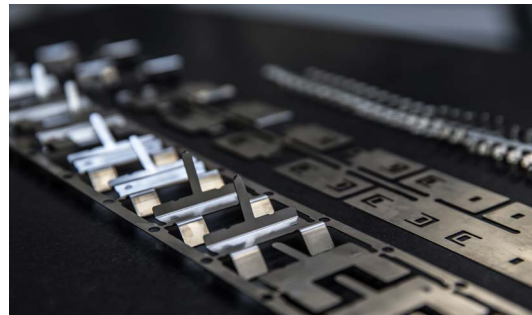
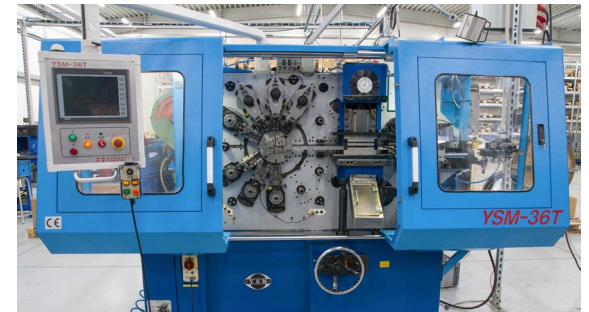
- wire diameters from 0,1 mm to 65 mm.
- strip thickness from 0.1 mm to 3 mm.
- natural, shotpeened and powder coated or galvanized
- materials (EN 10270): spring steel, INOX, Inconel, Brass Hastelloy, phosphor bronze, chrome-silicon, chrome-vanadium.

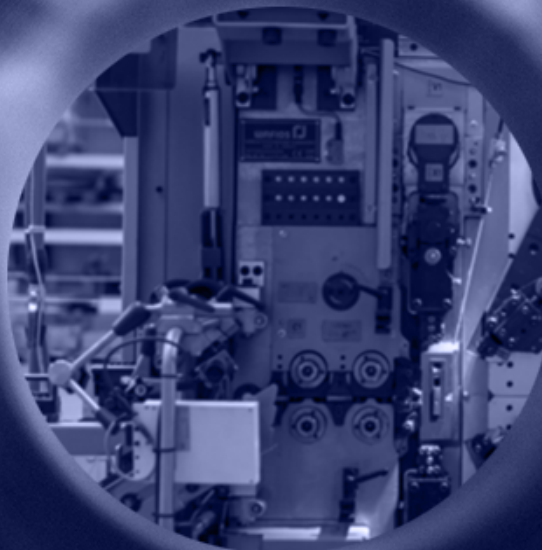


ENGINEERING CUSTOMER SOLUTIONS

Customer innovation is the pinnacle of our capabilities:

- **R&D- and engineering teams**, working closely together with customers in development of a spring solution that delivers the specified function and performance. This with great attention to manufacturability and total-cost-of-ownership.
- **Prototypes**, made in our inhouse tooling departments to materialize the final form-fit-function and feasibility of a proposed solution.
- **Testing facilities** for industrial springs in the Netherlands and Czech Republic and the Fred Baas Spring Technology Innovation Centre for door springs in the Netherlands.
- **Alcomex Quality Management System** that secures meeting the product specification demands and stimulates continuous improvement of products and processes.
- **Shared know-how**, inviting our customers to profit from extensive expertise and experience in spring technology. Technical-, production-, engineering- and material information available on our website. Meet our international sales team for any demand or request.





LET'S TALK!

We trust that this short introduction provides you with a first glimpse on what kind of partner the Alcomex Springs Group can be for you. We invite you to sit down with us to explore our answers to your specific demands. Contact us today!

alcomexsprings.com
hzsolutions.nl
viod-springs.com

