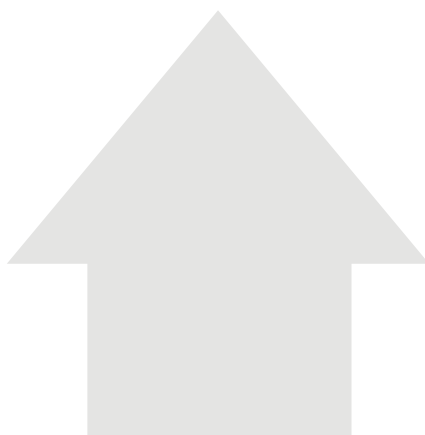
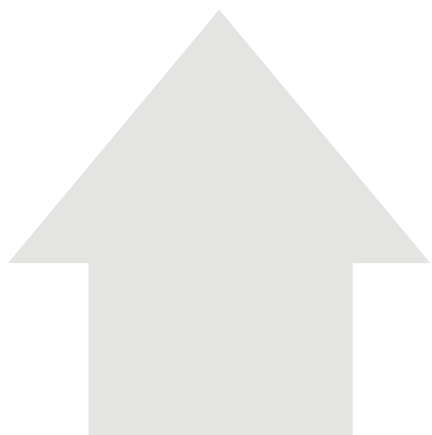


STARK Spannsysteme

A company of the ROEMHELD Group



stark-roemheld.com



ROEMHELD
HILMA ■ STARK



The high-tech company STARK Spannsysteme, founded in 1977, is considered a pioneer in the development and manufacture of zero point clamping systems. It is the first company on the market to specialise exclusively in this technology, and has been doing so for decades.

Highest possible quality and precision distinguish what is probably the most comprehensive product range on the market in the field of highly productive workpiece clamping. STARK components, products and systems make manufacturing more efficient and flexible.

STARK
INNOVATIVE
EXPERIENCED
INDIVIDUAL
SAFE

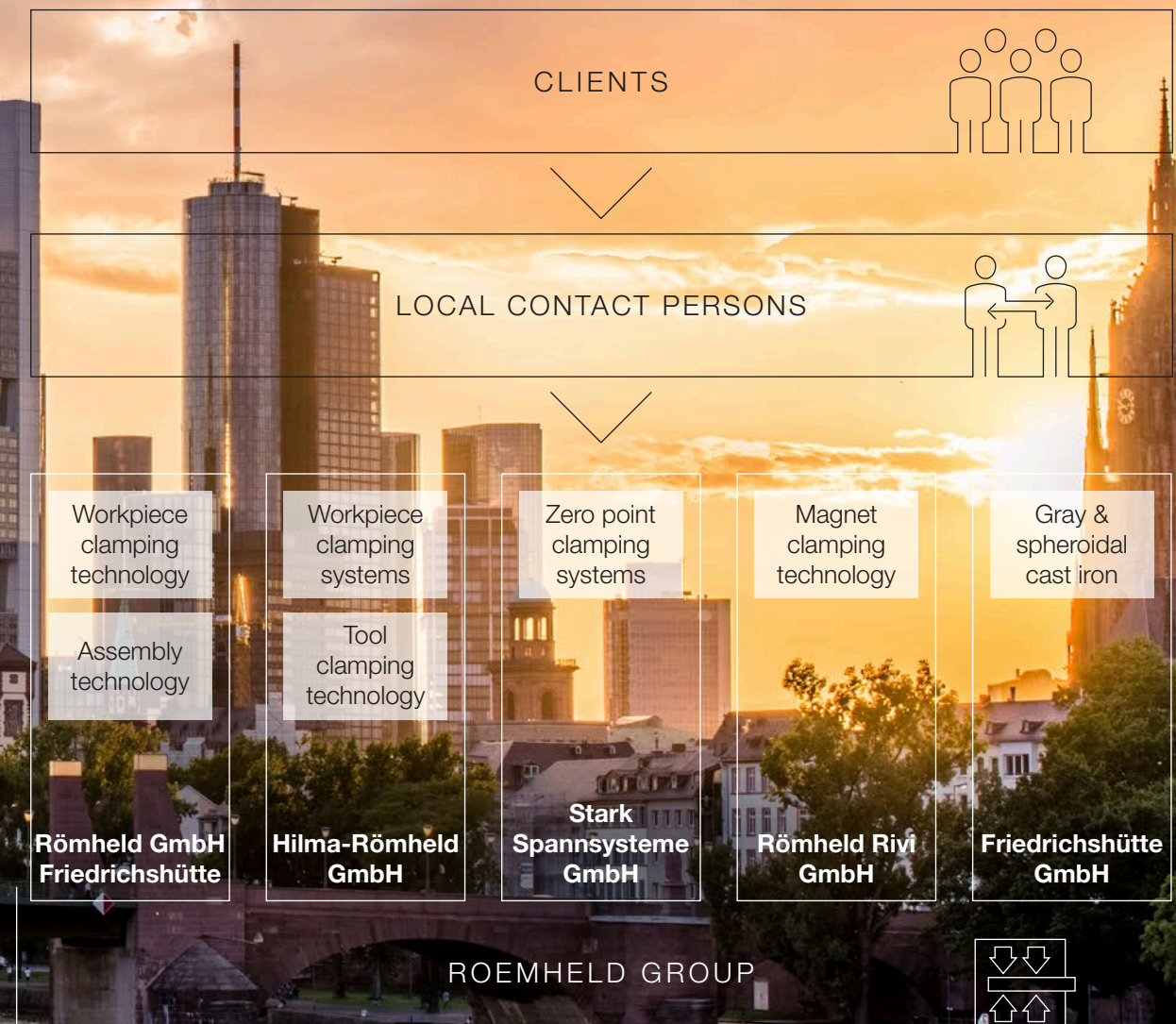


ROEMHELD Group – at home in one of the most exciting economic regions in Germany.

Hessen is one of the top business locations in Europe. You can find many globally successful companies from a wide variety of industries here. No other German state has more people working in science and research than Hesse. Around 250,000 students at universities and colleges in Hessen are the specialists of tomorrow.

Within this dynamic environment, the ROEMHELD Group, with its 550 employees and an annual turnover of 110 million euros, occupies a leading technological position in the field of clamping systems for the production sector.

The ROEMHELD Group is now represented on every continent and in more than 50 countries. With numerous subsidiaries, sales partners and service companies, it provides rapid and full-scale customer support in the fields of mechanical engineering, medical technology, automotive, aviation and agriculture.





STARK Spannsysteme – where technology lead meets mountains.

The economy in Vorarlberg – the westernmost federal state in Austria – is as varied as its landscape. A variety of industries and regional value chains on an international level characterise the economy of this region.

In terms of patent applications, Vorarlberg regularly ranks amongst the top five regions in Europe. Due to its economic power, this state is on a par with the metropolitan regions of Paris and Stockholm.

The average person from the Vorarlberg region is said to have the qualities of diligence, efficiency, open-mindedness and courage. Performance is valued by the population just as much as creativity and commitment.

Vorarlberg is a a border area. 80 % of the 350km long state border is an Austrian national border. The region borders Switzerland, Germany, and the Principality of Liechtenstein. This unique four-country location is the main reason for the openness and internationality of the local economy.

STARK Spannsysteme is located in the middle of this remarkable economic region, surrounded by spectacular Alpine scenery.



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INNOVATIVE

100⁺ PATENTS

Our technological leadership and knowledge of our customers' needs is reflected in several hundred German and international patents and utility models.

SAFE

550 EMPLOYEES

The companies of the ROEMHELD Group are all family-owned. In 2019, 550 employees work for the Group.

INDIVIDUAL

30,000 COMPONENTS

With over 30,000 articles, the ROEMHELD Group's comprehensive product range offers the right product for almost every task and is constantly being expanded with new product developments and customer-specific solutions.

STRONG

110 M

In 2018, the ROEMHELD Group achieved cumulative sales of more than 110 million euros at its three sites in Laubach (DE), Hilchenbach (DE) and Rankweil (AT).

EXPERIENCED

1988

STARK develops the first zero point clamping system in the machining sector and is now one of the innovators in the industry.

STARK products reduce set-up times by 90 % and ensure optimum utilisation of machine capacity.

We know how progress works, through passion, lateral thinking, and of course collaboration.



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STARK Spannsysteme

The ROEMHELD Group consists of 5 companies in Germany and Austria, each with different products and orientations. But one thing unites us: We're a team. Because we work together, learn from each other and develop together.

As a part of the ROEMHELD Group STARK contributes to numerous synergies resulting from the collaboration of specialised technology companies. In this network we focus on international scale business and are the trusted partner of numerous customers all around the world.



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Martin Greif, managing director of STARK Spannsysteme with the shareholders of the ROEMHELD Group, Philipp Ehrhardt and Julia Reichert, and Hans-Joachim Molka, managing director of the Römheld GmbH Friedrichshütte

“It's the **we** that makes us different. It's our **togetherness** that makes us better.”

As part of the ROEMHELD Group, STARK not only benefits from the security and experience of a family-run company with a long tradition but also from its worldwide sales and service network.

At the same time, this background provides the independence to pursue dynamic and innovative solutions for emerging market-driven trends and to develop customised solutions with which STARK maintains its technological leadership position.

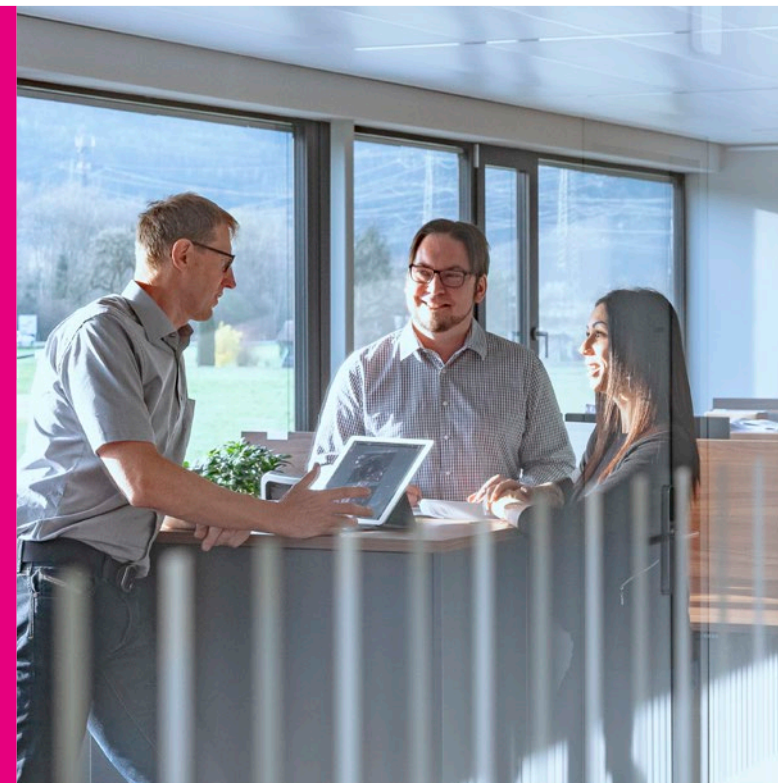


ROEMHELD
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“Technical challenges are best mastered with a versatile team.”

Markus Frankenberger
Mechanical Design



“Partnership is our motivation, we cooperate to find your optimal solution.”

Andreas Kraml
Technical Sales

“It's rewarding to work in a place where you can play an active part in shaping solutions.”

Tobias Klenz
Apprentice Workshop



“Adherence to delivery dates and work quality is our strength.”

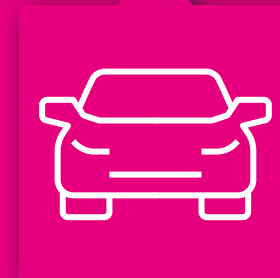
Klaus Tschemernjak
Production Planning





Focus on industries and markets.

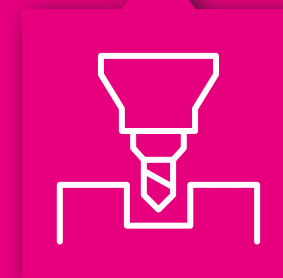
Every customer has specific requirements. With our comprehensive industry expertise, we offer you the right solutions, services, and products for sustainable and efficient application.



AUTOMOTIVE



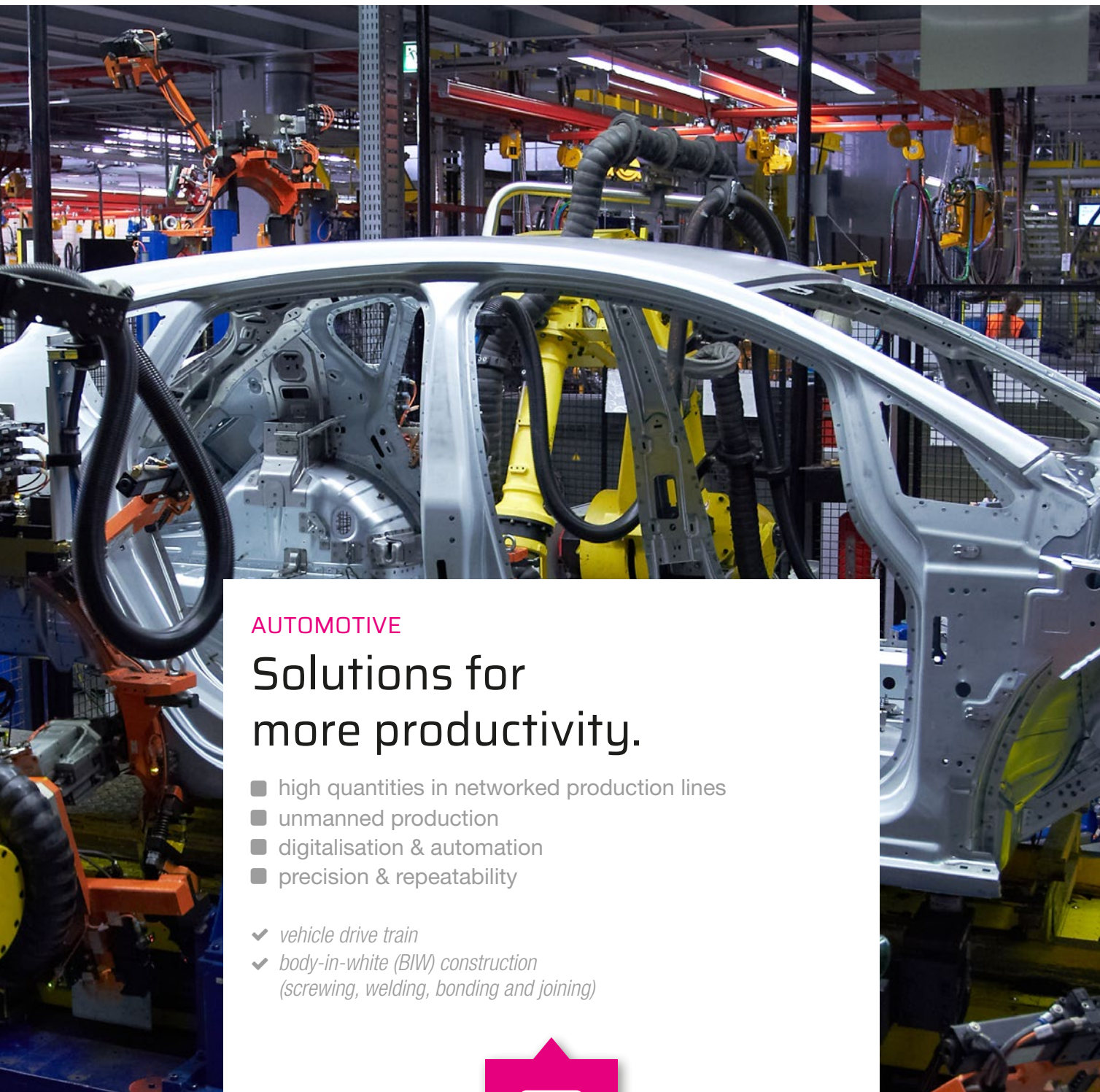
AVIATION



MACHINE AND TOOL
CONSTRUCTION



MEDICINE



AUTOMOTIVE

Solutions for more productivity.

- high quantities in networked production lines
- unmanned production
- digitalisation & automation
- precision & repeatability

- ✓ vehicle drive train
- ✓ body-in-white (BIW) construction
(screwing, welding, bonding and joining)



AVIATION

Highest possible precision for the aviation industry.

- high safety requirements
- high precision and accuracy for aeronautical application
- cost-intensive components and semi-finished products at worldwide production sites

- ✓ aircraft structural parts
- ✓ aircraft turbine parts





MACHINE AND TOOL CONSTRUCTION

Smooth and efficient production.

- automation & process safety
- unmanned production
- versatile possibilities for customisation
- very high range of requirements

- ✓ *subtractive and additive manufacturing processes*
- ✓ *assembly and joining (bonding)*



MEDICINE

Maximum quality and care in medical technology.

- pneumatic and electrical solutions
- highest possible precision for medical applications
- high and repeatable accuracy
- optimised set-up times

- ✓ *specific manufacturing processes for challenging materials in medical technology*
- ✓ *dental industry, orthopaedic and cardiovascular medical technology*



Zero point clamping system:
Strong, precise and customised for your application.



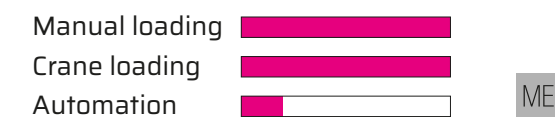
STARK.classic

- **lifting:** STARK.classic lifts the pallet upon release
- **simple:** easy to clean
- **precise:** due to cylindrical fit
- **durable:** press-fitted bolts
- **versatile:** clamping control, mount control, blow-out, media duct



STARK.metec

- **easy:** quickly installed
- **robust:** few individual parts
- **compact:** high force density
- **mechanical:** easy maintenance
- **independent:** one torque wrench is sufficient



STARK.hydratec

- **compact:** extremely high force-density
- **flexible:** equaliser variants possible
- **clean:** encapsulated against contamination
- **monitored:** all functions can be monitored
- **economical:** short clamping and release times, high cycle number



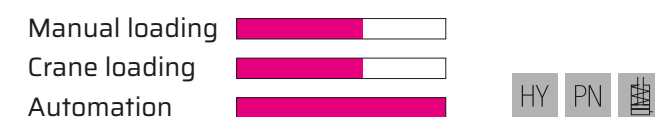
STARK.plaintec

- **unique:** flush-mounted fast closing clamp and clamping spigot
- **sliding:** handling without interfering contours
- **very strong:** 50 kN retention force
- **independent:** suitable for automation
- **monitored:** all functions can be monitored



STARK.sweeper

- **independent:** for automated solutions
- **monitored:** all functions can be monitored
- **integrated:** built-in couplings available
- **adaptable:** different configurations available
- **cleaning:** ingenious blow-out system



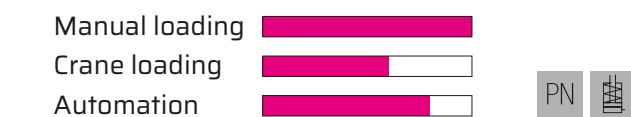
STARK.airtec

- **low-maintenance:** intervals up to 2 million cycles
- **process-safe:** Industry 4.0 ready
- **strong:** thanks to circumferential clamping segments
- **precise:** due to cylindrical fit
- **quick:** clamping/release time of only 0.2 s



STARK.easyclick

- **click:** clamping by pressing
- **compact:** diameter of 85 mm and only 19 mm high
- **strong:** 5 kN clamping force – 10 kN retention force
- **economical:** released at 4 bar
- **quick:** release time of only 0.1 s



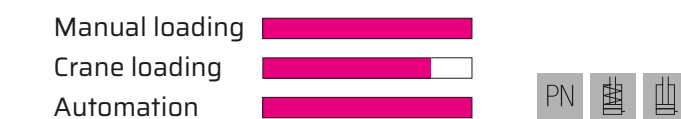
STARK.balance

- **compensating:** compensation up to ± 0.75 mm
- **monitored:** all functions can be monitored
- **direct:** designed for direct workpiece clamping
- **lifting:** STARK.balance lifts pallet upon release
- **optimal:** ideally suited for large devices



STARK.connect

- **process-safe:** Industry 4.0 ready
- **flexible:** various equaliser possibilities
- **optimal:** active insertion despite small design
- **robust:** highly resilient
- **fast:** very short clamping/release time



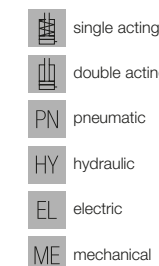
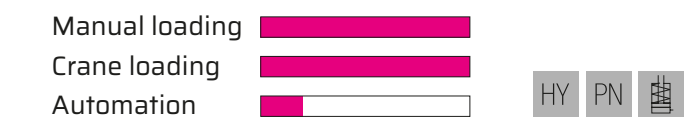
STARK.etec

- **process-safe:** Industry 4.0 ready
- **compatible:** suitable for retractable nipple of STARK.sweeper and STARK.hydratec
- **economical:** electric drive
- **simple:** simple system integration
- **controllable:** forces measurable and controllable



STARK.basic

- **simple:** modular design
- **economical:** easy assembly and installation
- **adapted:** hydraulic or pneumatic
- **versatile:** 14 variants
- **price-conscious:** cost-effective entry-level models



1 COMPONENTS

Highest possible quality and precision distinguish what is probably the most comprehensive product range in the field of highly productive workpiece clamping on the market. STARK components, products and systems make manufacturing more efficient and flexible.

2 CUSTOMISED SOLUTIONS

Special challenges require special solutions. Based on STARK's extensive clamping system portfolio, we create customised solutions for your individual requirements.

3 DEVELOPMENT PROJECTS

STARK has the ability to develop a customised solution if the standard version is not optimal. Based on our decades of experience and in-depth process expertise, we offer customised solutions that are tailored to your specific application by analysing your unique requirements.

4 SERVICES

Our service centres around the world are available for advice, project planning, assembly, turnkey installation and commissioning of systems as well as on-site training, repairs and maintenance. Our customer service around the world enjoy outstanding collaboration with our headquarters in Austria and receive comprehensive support in all technical matters.



Quality checks are carried out in an air-conditioned measuring room. Customised fast clamping locking plate with a diameter of 1.1 m for grinding applications in the aviation sector

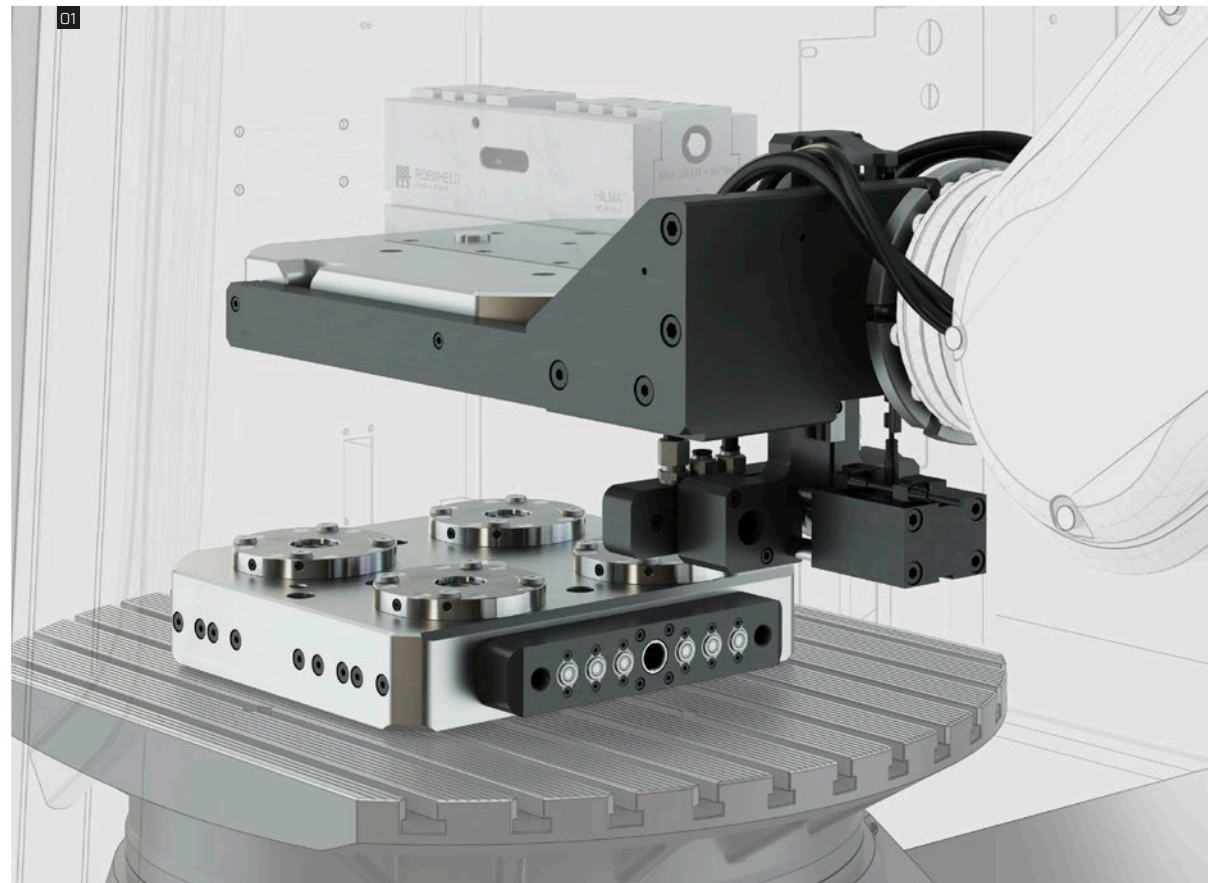
CUSTOMISED SOLUTIONS

Special challenges require special solutions.

Successful companies expect more than “just” convincing products from their partners. They also expect process expertise and comprehensive consulting services that are aligned with their individual requirements.

We adapt our components for you, if the standard version does not lead to the goal. Based on our decades of experience and in-depth expertise in the development and manufacture of zero point clamping systems, we can quickly and efficiently come up with a customised solution for your specific application.

- wide range of solutions through adaptations for individual customer requirements
- perfectly adapted to your specific application
- solutions for applications from batch size of 1
- fast and efficient thanks to development expertise since 1977
- comprehensive specialist knowledge throughout the ROEMHELD Group



01 STARK robot gripper with a zero point clamping system enables automated pallet changes even without media on the machine table. Media transfer for clamping and release processes as well as necessary control queries take place via a multiple coupling on the pallet gripper. This system is also ideally suited for retrofitting projects.



02 STARK set-up station as a complete solution: An ergonomic, height adjustable set-up station enables high-precision set-up of turbine parts in the aerospace industry. A hydrostatically mounted rotary table with STARK zero point clamping system guarantees minimal deviations between set-up station and processing machine.

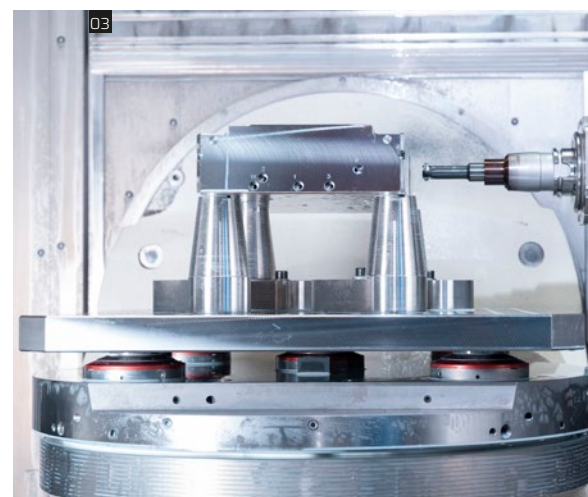
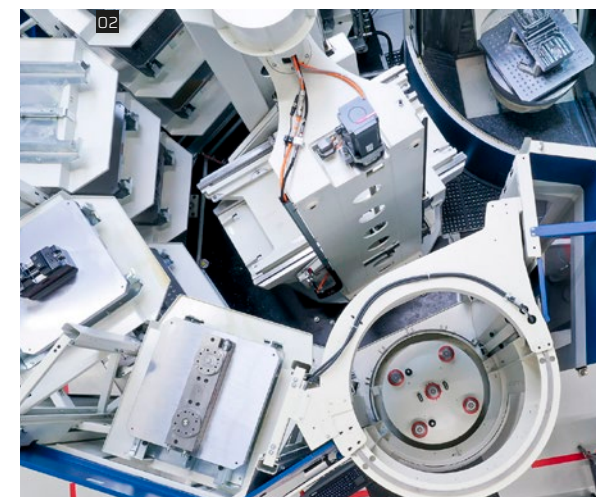
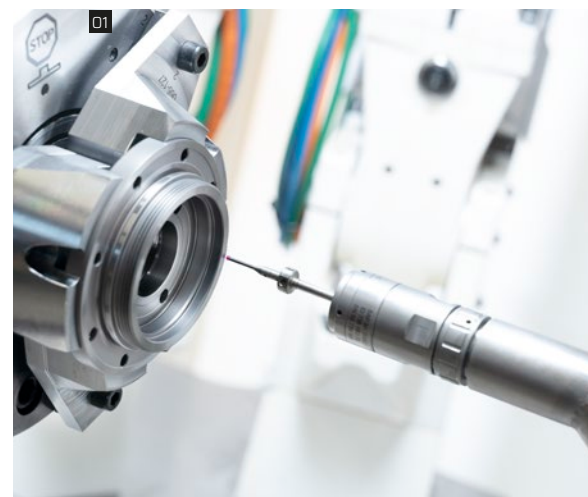
DEVELOPMENT PROJECTS

It starts by understanding the customer's application in detail.

Increasing complexity and rapidly changing conditions, markets and customer needs demand customised solutions for unique challenges. In addition to a perfect product, it is also increasingly important to offer process expertise and comprehensive consulting services.

We are speeding up processes to be even closer to our customers. Local contacts and a global team guarantee sustainable solutions that meet the high technical and economic expectations of our customers.

- a holistic approach to processes and analyses ensure smooth and cost-optimised production
- development of customised complete solutions or solutions for optimizing sub-processes
- development and implementation expertise that has been built up over decades
- flexible yet efficient production structures



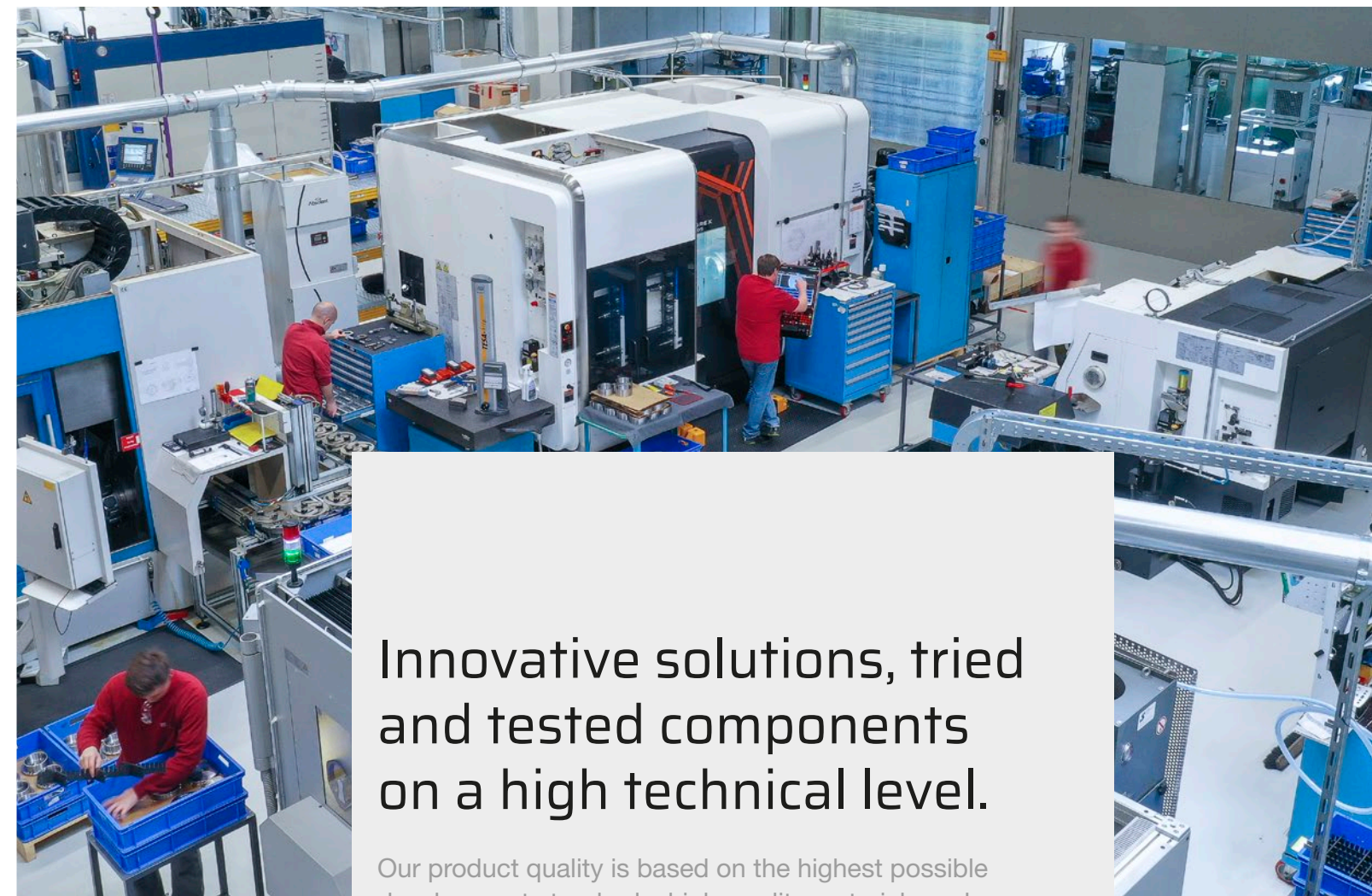
- 01 Highest possible precision thanks to state-of-the-art machine tools
- 02 Flexible production is enabled with a fully automatic pallet changer with STARK.hydratec quick-change system
- 03 Five-axis machining for economical production – a special fixture is precisely clamped on a STARK.hydratec zero point clamping system
- 04 High-precision STARK pallet changing system for cylindrical grinding machines

Fast availability, accuracy, quality, and process reliability.

STARK attaches great importance to optimally designed processes – from development and design to production, assembly and quality assurance, this modern business premises offers optimal conditions.

Fully air-conditioned production facility, state-of-the-art machinery, flexible and efficient production structures and highly qualified employees guarantee high-precision STARK product quality, delivery reliability, efficiency and cost transparency.

We strengthen our own competitiveness and that of our customers with a delivery reliability of over 98 %.

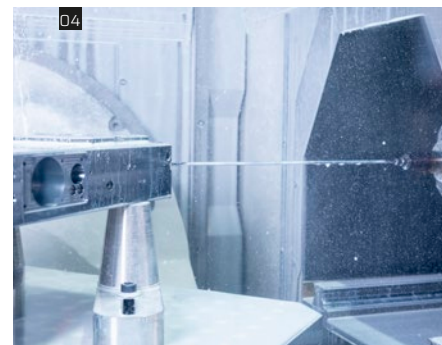


Innovative solutions, tried and tested components on a high technical level.

Our product quality is based on the highest possible development standards, high-quality materials and state-of-the-art machinery and processing technologies.

Thanks to its decades of history and as a pioneer in zero point clamping technology, STARK has in-depth product and application knowledge.

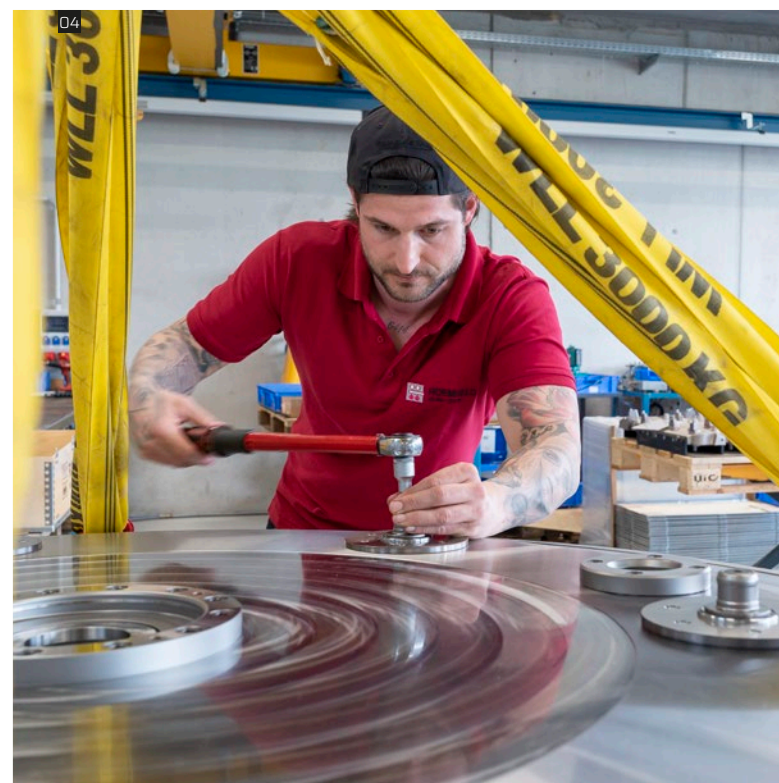
A complete quality assurance and testing system is an integral part of all processes. The vibration-decoupled and shielded measurement equipment and a test system for long-term tests under production conditions guarantee our customers the highest degree of reliability.



- 01 Fully air-conditioned production and modern machinery ensure optimum production conditions at the company headquarters in Rankweil, Austria
- 02 New generation, multi-functional machines enable DONE-IN-ONE machining from the raw material to the finished, turned and milled component
- 03 We understand accuracy down to one thousandth of a millimetre
- 04 Media connections of STARK fast clamping plates, whether for a pneumatic or hydraulic application are fabricated with deep-drilled holes



ROEMHELD
HILMA ■ STARK



“STARK stands for quality, excellent products, highly efficient processes and outstanding results.”

We achieve this by practising common values and striving for common goals. The expertise and commitment of our employees are decisive factors driving the success of our company.

01 Highly qualified employees ensure the highest possible quality standards

02 Set-up station with STARK.hydratec quick-change system with integrated media transfer enables precise and safe set-up without machine downtime

03 Experienced employees with in-depth product knowledge and application expertise form the foundation of our quality promise

04 Machining processes are dependable and reliable



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