



***) experts for experts.
Safety components**

*) experts for experts: Let's talk about safety components.

Decades of experience and international expertise make us a specialist in the development and production of safety components for restraint systems. In close cooperation with our customers, we use cost-effective, high-tech production processes to generate product solutions that perfectly match our customers' requirements.

Tubular components for airbag systems

As safety specialists we offer versatile technologies that are required for the production of simple and complex airbag components. From cutting and end processing, calibrating and punching to rotational forming of high-strength materials, we facilitate all further processing processes of tube material. At the same time, individual process concepts are designed, developed and implemented in close collaboration with our customers and external cooperation partners. Our precision rotational forming in particular distinguishes us as a specialist for complex, cost-effective solutions in the manufacture of airbag components.

Using this forming technology, in addition to passenger airbag components we also produce

components for side-airbags at low cost, at the highest technological level and in accordance with the necessary quality and safety requirements of car manufacturers.

Hood Lifter

The hood lifter is manufactured from welded drawn stainless steel tubes and functions as a pyrotechnically powered piston for the speedy lifting of the bonnet in case of accidents involving a pedestrian. As the bonnet is lifted immediately, the accelerations that are created when a pedestrian impacts on the front of the car are reduced significantly, thereby increasing the likelihood of survival.



Our advantages

- Low-cost series production due to
 - optimum utilisation of materials
 - short cycle times
 - low tool and energy costs
 - short tooling times
- Low prototype costs
- High flexibility
- Seamless production of airbag components of the most varied design
- Short development times due to
 - process, equipment and product development under one roof
 - close-to-production design of the component even at the prototype stage
 - low tool expenditure
- Own plant engineering and tool manufacturing
 - Own Technology Center
 - Development of new products and manufacturing technologies
 - Manufacturing of machining tools for special applications





Tubular components for seat belt pretensioner systems

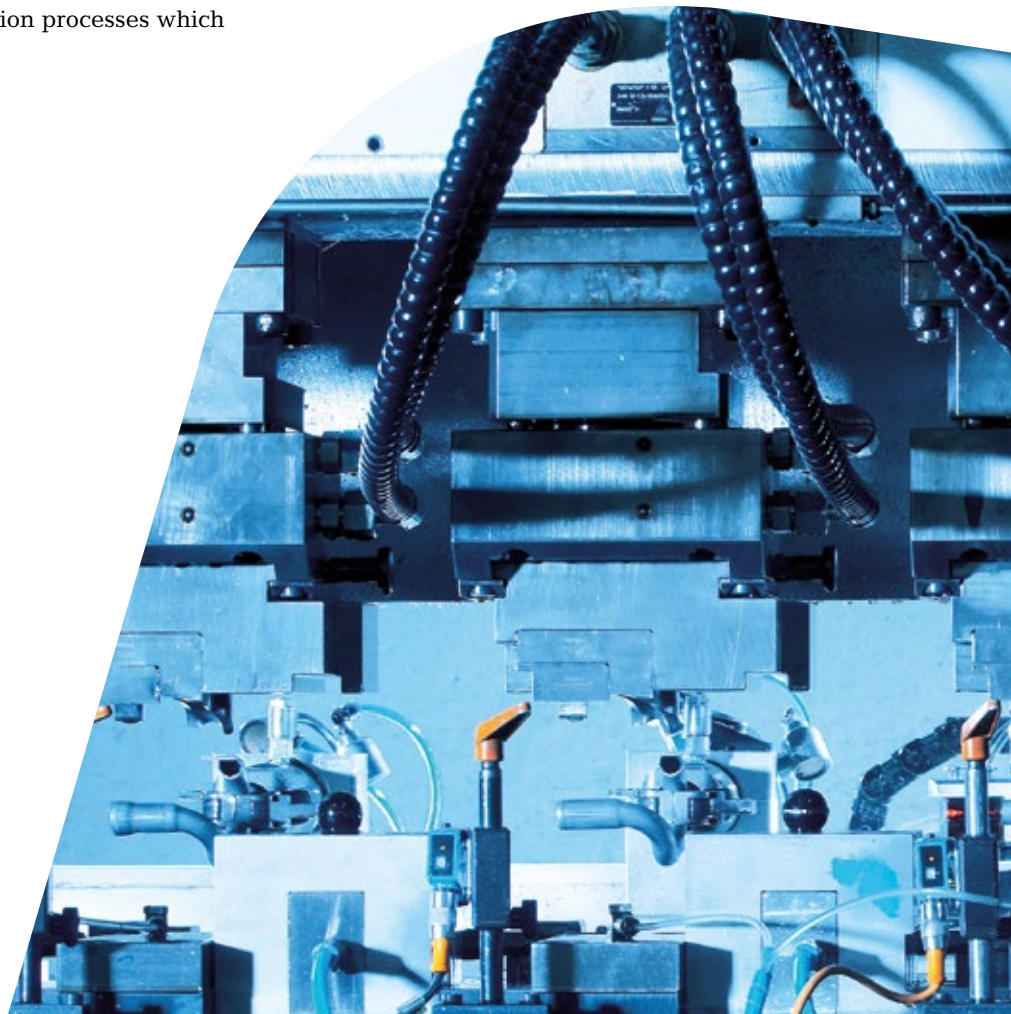
The voestalpine Rotec Group manufactures tubular components for seat belt pretensioner systems for the leading suppliers of automotive components.

We offer the complete process chain in-house: from the standard process to complex processing of the precision cut length into the belt component. The process steps necessary for production of the safety components such as chamfering, bending, stamping, marking, expanding and checking are integrated in one production line and are interlinked.

Together with our customers and highly-qualified cooperation partners in the construction of special machines, we develop production facilities and production processes which

provide the best possible solutions for manufacturing tubular components in automotive safety engineering.

Using our many years of expertise in process development, materials and tube processing, we adapt our technologies to the diversity of requirements in the best way possible. At the same time our specialists work continuously on new system developments which we implement in our production facilities in the most cost-effective and efficient manner available.

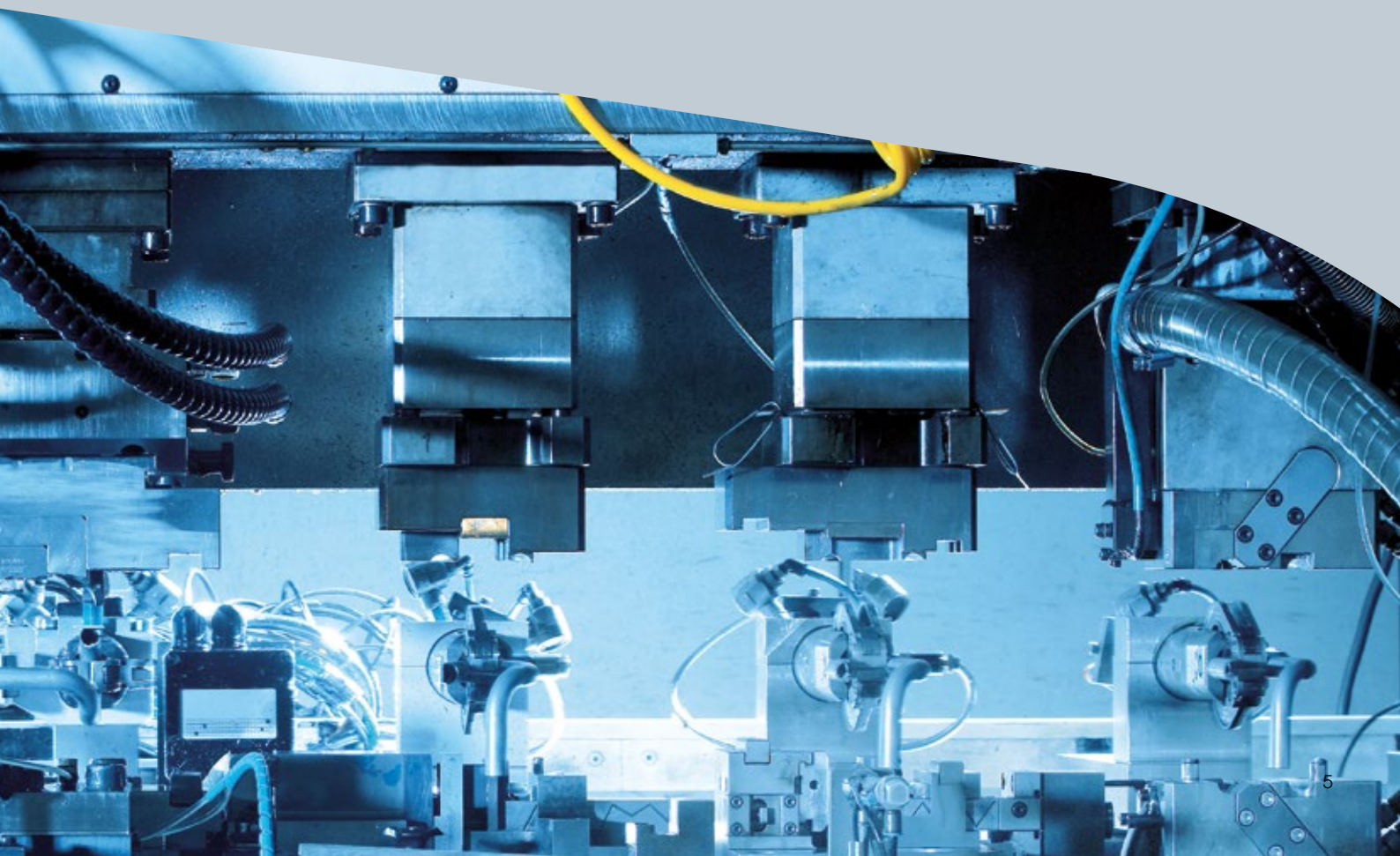




Our advantages

Our production concepts are distinguished not only by technical but also by commercial advantages:

- Reduction of production costs
- Possible production of low as well as high numbers of items using only one process solution
- By using the most varied tools it is possible to produce a variety of products on the same system
- Short tooling times due to a fast automatic tooling system
- Use of the same tools for prototype and series production
- Ability to offer special (tube-) solutions through our own plant engineering and tool manufacturing



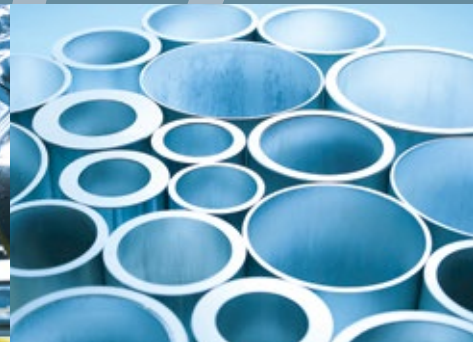
Let's talk about your benefits.



The voestalpine Rotec Group – the safety specialist

Highly qualified staff, short decision paths and our versatile knowledge of processes and materials make us specialists in automotive safety.

The voestalpine Rotec Group guarantees specialist know-how covering everything from raw materials to cold drawn precision steel tubes and ready-to-install safety components. We vouch for optimum production concepts by being included in the early stages of the customers' product development. As a result we can certainly offer convincing advantages.



Our advantages

- Closed process chain from crude steel and cold drawing of tubes to further processing of precision cut lengths
- Uniform and highest quality standards
- Comprehensive knowledge of materials
- Many years of experience in process development
- In-depth knowledge of producing safety components
- Close, long-standing collaboration with qualified cooperation partners in the mechanical engineering field
- Development partnership with the customer
- Processes perfectly matched to customer requirements
- Cost-efficient and highly precise production methods
- Safety from a single-source supplier – with components for both belt pretensioner and airbag systems
- Own plant engineering and tool manufacturing

As a result, voestalpine Rotec is able to offer customer-oriented solutions with a high level of service across the entire integrated process chain. Our network, know-how and experience make us what we are: ***) experts for experts.**



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