



AVENTICS

AVENTICS
SHAPING THE FUTURE
WITH THE POWER OF
INNOVATION

Rexroth
Pneumatics





AVENTICS:

Powerful ideas for tomorrow's markets

Our pneumatics expertise is based on decades of experience. We set new benchmarks in the integration of electronics and innovative materials, and offer proven sector-specific solutions. We focus on long-term cooperation and strive to improve our customers' productivity and competitiveness.

Products from AVENTICS open up an impressive range of application options. Our customers produce heavy-duty metal fabrications weighing up to several tons as well as lightweight automobile components. They integrate our components on ship bridges and in truck transmissions; in the non-contact transportation of fresh baked goods and to circulate red-hot bottles in glass furnaces. Components and systems from our extensive portfolio can be found virtually everywhere.

We combine experience and innovation to develop new solutions for our customers, design sector-specific products, and search for new ways to enhance energy efficiency and productivity. And what seals the deal: a commitment to excellence in our customer relationships. Our customers and partners respect and value our ongoing efforts to achieve the best possible balance between cost-effectiveness and technical feasibility.

With numerous employees and production sites worldwide, along with the support of a global service network, AVENTICS is well positioned to respond quickly – anywhere around the world. We combine the stability of a global player with the flexibility of a medium-sized enterprise. The result? A strong partner for all your pneumatics needs.

3 Introduction

4 Data & facts

6 Interview

8 Industry highlights

AV system

Handling

Hygienic design

Cylinders and sensors

Valves, valve systems, and fieldbus applications

Compressed air preparation and accessories

10 Customer-specific solutions:

System technology

12 Customer-specific solutions:

Product development

14 Industries

16 Product divisions

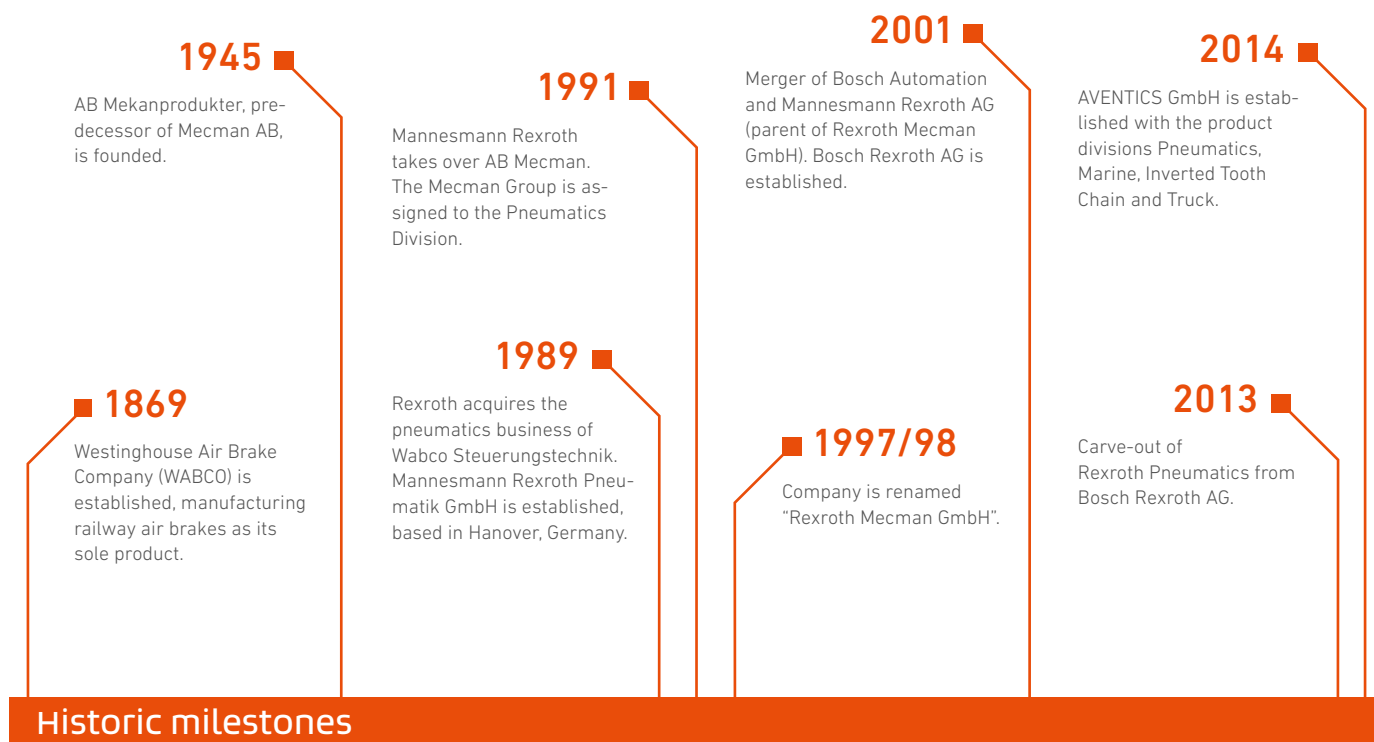
18 Service and safety

Tradition for continued success: The history of AVENTICS

A moving story that started with a brake: the history of AVENTICS goes back to the invention of the pneumatic brake. Since then, industrial pneumatics has taken enormous strides. However, the pneumatic principle of putting compressed air to work for mechanical tasks is still making history.

2014 marks the beginning of a new era: AVENTICS says farewell to large corporate structures to pursue a more agile, flexible SMB model. With this latest step, our company is building on industry experience accumulated over 100 years – with first-class expertise, high-performing products and systems, and long-standing customer ties.

The beginning of our company's history is synonymous with the start of industrial pneumatics: George Westinghouse designed the air brake after witnessing a train collision in the USA. "You can be sure if it's a Westinghouse" was the confident slogan adopted by the Westinghouse Air Brake Company (WABCO) in the 19th century.





Additional precursors of AVENTICS include the Swedish company AB Mekanprodukter, later to become AB Mecman, which launched the first generation of pneumatic valves on the market. Rexroth then made the pneumatics business its own and acquired parts of WABCO and later the AB Mecman Group under its former name Mannesmann Rexroth Pneumatik GmbH. Rexroth Pneumatics was created in 2001 through the merger of Rexroth Mecman and Bosch Automationstechnik. This led to Bosch Rexroth AG and finally, in 2014, AVENTICS was founded as a stand-alone, medium-sized company.

The product portfolio of AVENTICS has consistently expanded over the years: from cylinders and sensors, valves, valve systems, and fieldbus applications, components for compressed air preparation, grippers, and vacuum technology. As AVENTICS, we combine the best qualities of our long tradition and experience worldwide with the flexibility of a stand-alone company. Our products, quality, safety, and technical refinement are continuously optimized while we enjoy our customers' unwavering trust.

Global indicators

Employees 2.100

Sales 400 Mio. €

Production sites Germany: Laatzen/Gronau, France: Bonneville, Hungary: Eger, USA: Lexington, China: Changzhou

Sales offices: In 40 countries worldwide

Milestones at a glance

- | | |
|-------------|---|
| 1945 | First generation of pneumatic cylinders and valves goes into production |
| 1976 | First use of plastics in valve construction |
| 1982 | Integration of electronics in pneumatics |
| 1986 | Valve system with screwless valve assembly |
| 1991 | Leaktight rodless cylinders |
| 1994 | Cylinders with specially developed surface treatment |
| 1997 | Marine control systems with bus technology |
| 1999 | Innovative new mini slides with drives and guide in a single unit |
| 2000 | First use of pressure regulators in trucks |
| 2003 | Automation systems for handling technology |
| 2009 | Certified pneumatic components in hygienic design |
| 2013 | AV valves with high flow and small size |

“We look back proudly and face the future with excitement!”

Interview with Christoph Anders, Dr. Thomas Brückner and Dr. Alexander Lawrence, AVENTICS Executive Board.

In 2014, Rexroth Pneumatics became AVENTICS, paving the way for a new stand-alone company. How do you view this phase?

Dr. Thomas Brückner: It was an exciting time for everyone involved. We felt confident in our decision – especially because we were able to find an investor and partner who was quick to believe in the potential of our company. This really speaks volumes about our employees, our products, and the business potential that we radiate. We are extremely happy with our new status and we are pleased to say that our customers went along with the change. We will be able to master all of the tasks that lie ahead with the amazing “rush” that we are all experiencing right now. Our employees truly feel that our prospects as AVENTICS and as a stand-alone entity are very positive.

What does AVENTICS stand for?

Dr. Thomas Brückner: For us, it was important to find an umbrella term for our core business – Pneumatics – that can also represent the Marine, Inverted Tooth Chain, and Truck divisions. When it came to the name AVENTICS, we liked that it includes references to words such as “advantage”, “invention”, and “pneumatics”, since these concepts were essential in our realignment process. AVENTICS is also easy to pronounce in different languages, which is important to us as a globally active medium-sized business.

Christoph Anders: We also associate the name change with a new attitude, which we have defined in our new market values: agile, focused, and demonstrating passion. We face our legacy with confidence and also want to be even more proactive in response to our customers' requirements in the future. This is our brand essence: Expertise for you.

How do you make these new values a reality?

Dr. Alexander Lawrence: The new external framework gives us more flexibility, especially compared to the complex structures of a global corporation. In the future we will be more proactive and faster in responding to our customers' requests. With our new entrepreneurial freedom, we will be able to be more agile in just about every respect – and that's a huge plus in a rapidly evolving market.

How do you promote innovative approaches at work?

Dr. Thomas Brückner: Our development activities are widespread and varied. We are present in North America, Asia, and Europe, and apply the latest methods in international cooperation. Right now, we are also questioning the most basic assumptions, or ideas that we often feel are written in stone: With our new AV03 valve generation, we have been able to reduce spatial requirements and weight by nearly 50 percent thanks to an innovative diagonal design. Users can position these valves very close to the actuators, which also cuts down on tubing. This reduces compressed air consumption and improves dynamics.

How are you positioned internationally?

Dr. Alexander Lawrence: We have production sites in Germany, France, Hungary, the USA, and China. We have established a worldwide sales and service network with local pneumatics specialists. In the USA alone, the experience of our pneumatics employees in sales adds up to around 600 man-years.

What industries and sectors do you appeal to?

Christoph Anders: Our customers view us as a true partner when it comes to cost-effective, durable, and efficient solutions in the areas of general automation, heavy industry, and medical technology. We also specialize in components for commercial vehicles and marine technology, as well as inverted tooth chains for special requirements, e.g. for the glass industry and automotive assembly plants.

Could you elaborate on the role of marine technology and inverted tooth chains?

Dr. Thomas Brückner: These divisions supplement our core business. Our pneumatics components have proven themselves in ship engines for decades. We apply the ease of operation and the durability and reliability of pneumatics to complex control and automation solutions for marine vessels. These solutions

all feature a modular design. What's more, our specialists support engine manufacturers and shipyards with their expertise. We are technology leaders in the field of inverted tooth chains for drive and transport applications, e.g. in the glass and automotive industries. 90 percent of all inverted tooth chains that we develop and manufacture are custom-made. This allows us to satisfy the individual requirements of any application.

What is the biggest strength of AVENTICS?

Dr. Alexander Lawrence: Our employees. Together, they have decades of experience and an in-depth understanding of how pneumatics can be applied in our customers' applications. As a stand-alone company with a relatively small organization, we are all extremely close to the market and can react very quickly to our customers' needs.

The Executive Board of AVENTICS



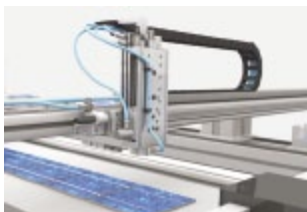
Pneumatics for industry – strong core expertise, through and through

For decades, pneumatically operated cylinders, valves, valve systems, and accessories have formed the basis for AVENTICS' success. New developments are just one of our strong suits – our product portfolio keeps on growing.



AV system

Our Advanced Valve (AV) system is the result of intensive research which has opened up entirely new avenues in design and materials. The new polymer-based construction reduces the weight of the components and enables assembly on moving parts. The AES interface ensures smooth serial communication. We are also poised to launch additional valves with higher flow rates (AV05) and an electro-pneumatic pressure regulator (AV-EP).



- ▲ AV system
- ▲ Gantry handling system with MSC series mini slides



- ◀ CL03 valve system and ICS cylinder

Handling

Whether non-contact, mechanical, or vacuum: AVENTICS' gripper technology is well equipped to take on any handling task, even those involving delicate surfaces and hard-to-grip materials. One highlight: our non-contact transport system (NCT series) for objects and workpieces. For gantries, we offer various modular components such as our MSC mini slides for all types of motion and gripping functions. These elements can be tailored to your specific requirements with our online Engineering Tools.

Hygienic design

Excellent solutions for food products and packaging: Thanks to the clean and safe medium of compressed air, pneumatic processes are also ideal for the requirements of splash zones. And it's no coincidence: components such as the CL03 valve system with bus module and CL03-EV single valve series are designed for very high protection categories and certified by the EHEDG. CSL-RD Stainless Line round cylinders can be selected either with a hygienic design or certified in accordance with DIN ISO 6432 and are suitable for use with NSF H1 lubricants.



Robust, precise, and low-maintenance: Our standard components

Cylinders and sensors

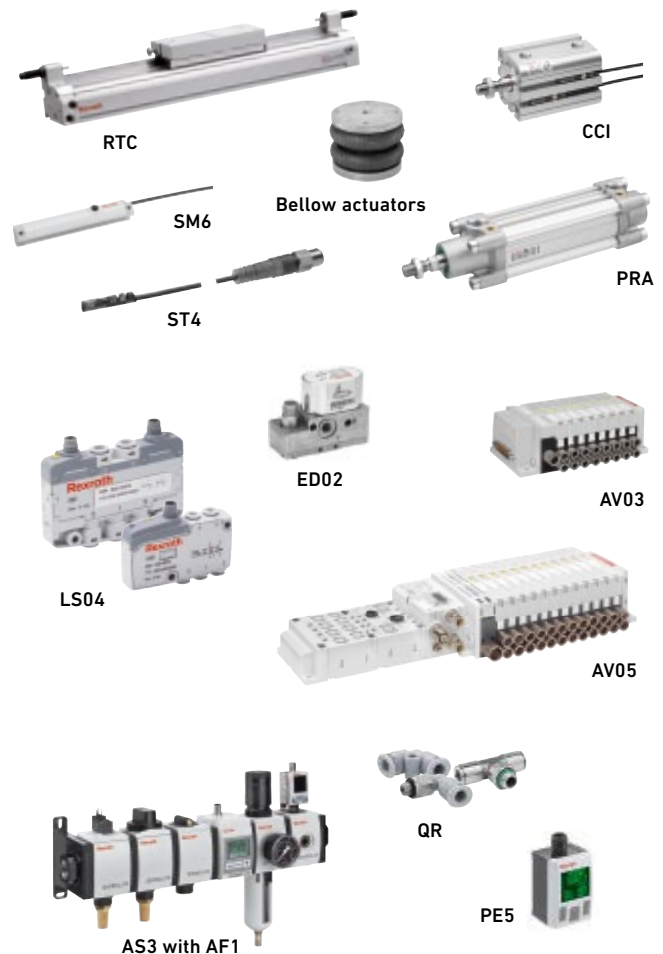
Based on a clear platform strategy, our extensive product range fulfills multiple requirements: from extremely compact cylinders for small handling applications to large-dimension standard cylinders for the most powerful tasks, and rodless cylinders with guided slides for long strokes. For our ISO cylinders, we offer a modular sealing system (MSS series), which enables a simple, fast exchange of the scrapers without removing the cylinder.

Valves, valve systems, and fieldbus applications

This versatile range includes everything from mechanically, pneumatically, and electrically operated single valves to highly complex modular valve systems. Electro-pneumatic pressure regulators from the ED02 series offer an ultra-compact design. They feature high dynamics, excellent control accuracy, and digital control electronics. LS04 series mini valves are another compact, lightweight choice that is ideal for the automobile, electronics, and semiconductor industries, as well as robotics and assembly technology applications.

Compressed air preparation and accessories

Our components prepare compressed air for every application, with functions that go far beyond the standard. Maintenance units from the AS family can be used in all applications with flows ranging from 1200 to 14,500 l/min. They feature high reliability and an easy configuration. Combined with AF1 pressure sensors, compressed air is supplied on demand, enabling a precise overview of costs.



Ready-to-install system technology: Functional, economical, and highly effective

For over 30 years, we have been providing our customers with sophisticated system solutions – in high quality, tried-and-tested, and on-time. Our service network is available worldwide and our established standards ensure state-of-the-art technology. Our systems spectrum ranges from valve units configured for individual applications to preassembled control cabinets with PLC or complete pneumatic handling systems.

All the best components – individually combined

We value a systematic approach, providing simple, cost-effective, and future-proof solutions for our customers. Our personalized consultants take care of all your needs from planning to delivery. You gain valuable time, reliable and high-quality processes, as well as increased cost-effectiveness and energy efficiency. At the same time, you can rest assured that everything will work. After all, smooth implementation is our business and we also take full responsibility for the complete system.

Our system technology benefits all processes in your company:

Consulting, planning, and service

Contact us, describe your project, discuss your order, and set deadlines. That's all it takes – we handle the rest! Capitalize on our long-term experience to get the best solution for your

application. This minimizes your risk, as we take on the responsibility for the complete, tested system covered by our worldwide service and warranty for functions and components.

Design and documentation

Free up your engineering capacities and make use of our established standards. Our online Engineering Tools minimize your internal engineering expenses, eliminate costs for project and product documentation, and give you all the necessary engineering data for standard CAD systems.

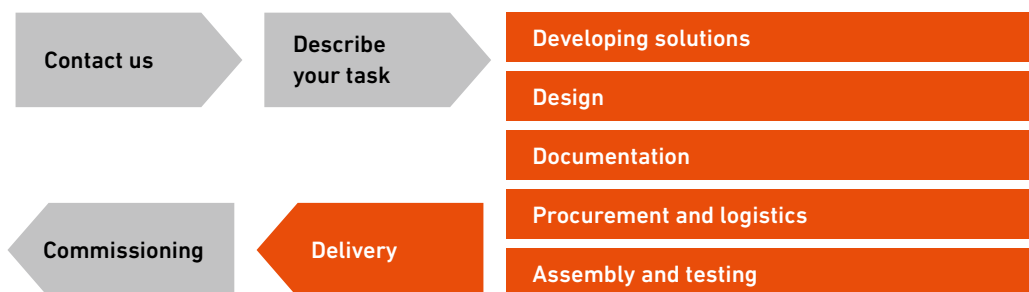
Procurement and logistics

With a single part number for the complete system, and therefore one supplier and one delivery, you can lower your logistics expenses – and even benefit from just-in-time delivery for series products.

Assembly and commissioning

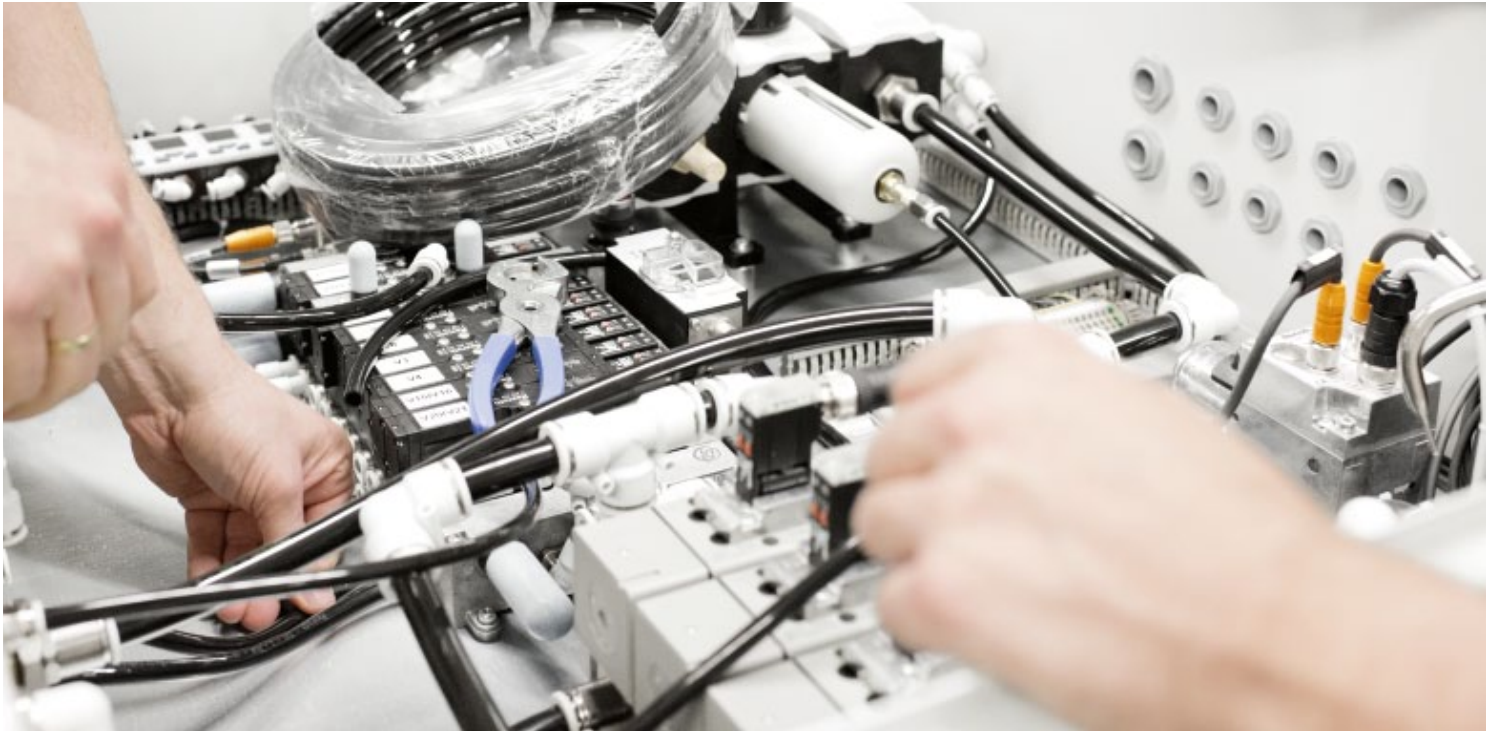
Our experts perform all assembly work. By eliminating testing expenses and additional set-up costs, you can simplify and shorten your production and assembly processes. This also helps to avoid bottlenecks and production standstills.

- Embark on the safe, direct route to your individual pneumatic solution, without any detours. Contact us, describe your project, and coordinate a timeline. That's all it takes – we'll handle the rest!



■ You with us
■ We for you

Everything you need – adapted to your individual requirements



Our systems spectrum

- Cylinder valve units with a variety of special functions and mounting elements for decentralized use.
- Modified valve systems configured with all necessary accessories, add-on components, and functional units, preassembled and ready-to-install.
- Modified maintenance units including flow optimization and compressed air monitoring for long-term energy efficiency.
- Control panels as integrated, complete pneumatic control modules for your application, exactly adapted to spatial requirements of your machine and working environment.
- Preassembled control cabinets with all essential control components for your application and ample protection against external influences.
- Pneumatic handling systems for gripping, moving and positioning, designed and created precisely for your application.

On-demand customization: We go the extra mile

Our systems technology already goes above and beyond. But we're always willing to go the extra mile for our customers. Thinking about modifying our standard components, integrating several different technologies in a single project, or even pondering a completely new design? You've come to the right place.

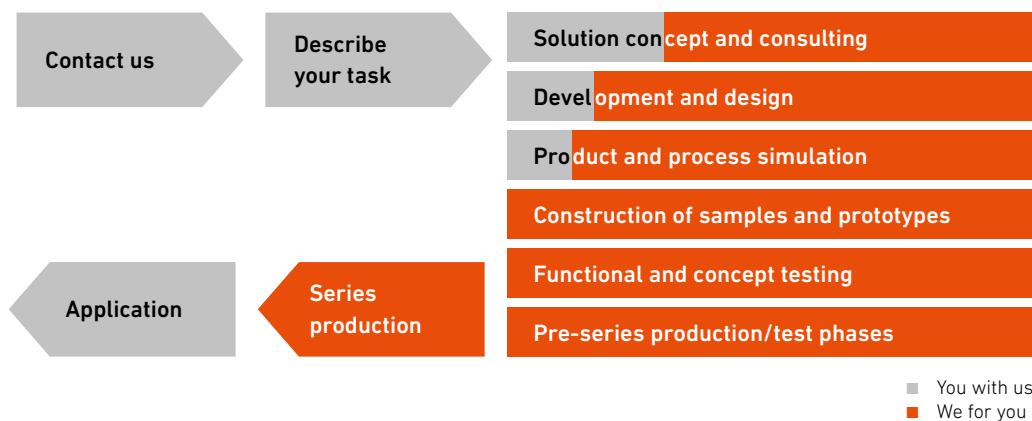
Anything that exceeds the demands of our standard program kindles the engineering spirit and passion of our product developers. When developing customized products, our experts can draw on wide-ranging experience from numerous orders with spot-on solutions. And their work is always based on the most up-to-date pneumatics know-how – resulting in decisive added benefits. Take advantage of our expertise in custom-configured systems and products specifically adapted to your needs.

Our goal: economically viable solutions

Reliable feasibility estimates alone are not enough. Our solutions also deliver creative concepts. Based on our experience from countless projects, we have developed a good instinct about what can be implemented. Looking for innovative concepts? Do you need to implement additional specifications or deal with new external conditions? We support you with creativity and know-how in

- Integrating functions or streamlining components
- Creating customer-specific function modules
- Achieving functional integration in your applications
- Developing energy-saving concepts/components
- Reducing TCO
- Using alternative materials
- Meeting customer-specific standards

► Let us know what we can do for you and benefit from our specialized expertise! We will make headway on your individual pneumatics solution right from the initial consultation.



Polished pneumatics at your doorstep: Our range of services.

Modification of standard components

Modifications to products from our standard program, such as special materials, modified threads or special seals, can be implemented quickly and easily to achieve tailor-made solutions for your application.

Integrating various functions in a single product

The targeted integration of mechanical, pneumatic and electronic elements enables highly compact and efficient units for a wide range of tasks.

Product development with additional specifications

We create fully new concepts to boost efficiency through a perfect balance of materials, functions, and the application environment. From ultra-stable designs for harsh operating conditions to lightweight solutions for delicate tasks, our products are well-equipped to meet a variety of everyday challenges.

Integration of electronics and pneumatics

From modifying the range of a pressure regulator to developing a new controller, highly-integrated electronics introduce exciting new possibilities for pneumatics. This includes fascinating options such as additional special functions for valve units, pressure separation, the installation of electropneumatic pressure regulators with external sensor cleaning, boosters, or integrated switching valves.



AVENTICS shines – in your industry

The right solution, whenever and wherever you need it: Our industry solutions showcase the excellent cooperation among all technological areas of AVENTICS. We use our experience, creativity, know-how, and keen understanding of individual requirements to help you get ahead.



Food & Beverage



Electronics



**Industrial Machinery
& Supply**



Health Care



Energy & Environment



Chemicals



Automotive



Textile & Clothing



Transportation



Wood, Paper & Printing



Leisure



Metals, Mining & Minerals

Food & Beverage

We offer industry concepts for all applications – food processing and primary packaging (food zone), secondary packaging (splash zone), final packaging (non-food zone) – that comply with even the strictest laws, regulations, and standards.

Electronics

AVENTICS convinces with its efficient automation solutions for gripping, rotating, drive, and control applications. Our reliable components, the compact design, and the low-maintenance technology result in short process times, high energy-efficiency, and maximum economy.

Industrial Machinery & Supply

We have devised a process for the development of optimal pneumatic automation solutions that has more than proven itself on the market: we call it air "management". Air can be forceful and gentle; it can also be controlled precisely for a specific function and variably regulated. In short, it is precise, fast, and cost-effective.

Health Care

For the global health care industry, we offer solutions for low pressure applications with a high degree of electrical and functional integration. Our dedicated engineering team has unique application expertise in this field.

Energy & Environment

With environmentally friendly pneumatic solutions, we support the development of renewable energies. Our products can be configured for applications in energy generation, mining or transportation of raw materials, and recycling.

Chemicals

Be it petrochemicals, plastics, the rubber industry, or further production sectors: we serve all the important segments of the chemical industry and have long-standing customer relationships with the leading manufacturers. We also cover specific requirements, such as ATEX certifications.

Automotive

The automotive industry has always been one of our focus areas. Our global offering includes both series products and custom-made devices. During project development and the implementation of new production schedules, the automotive sector benefits to a great extent from a direct exchange of know-how within AVENTICS.

Textile & Clothing

We have many years of expertise in textile manufacturing and work for market leaders with systems production in China, India, Brazil, and Europe. We supply complete controllers for easy plug & work solutions and comply with all relevant quality standards worldwide.

Transportation

Pneumatic solutions for pantographs, pneumatic valves, drives for air ducts, wiper motors, or for opening systems for train doors for mineral raw materials, blocking functions for acclimation and ventilation: all products and components are characterized by their robustness, reliability, and durability.

Wood, Paper & Printing

From wood processing to packaging, AVENTICS has best-in-class pneumatic solutions for all processes in the wood, pulp, and paper industry. Thanks to long-standing partnerships with market leaders, we have played a major role in the development of this market.

Leisure

With its leisure product, AVENTICS makes a contribution to increasing safety in diving. It is based on a technical innovation that enables more leisurely diving thanks to a completely pneumatic solution.

Metals, Mining & Minerals

Be it high temperatures, dirt, dust, or mud – AVENTICS provides you with solutions for extreme ambient conditions with the highest demands on materials and machines. We advise and support the mining industry, metal production, and metal working.

Advantages

- ✓ Industry-specific products
- ✓ Pneumatics experts
- ✓ Long-term experience
- ✓ Tailored solutions
- ✓ Energy-efficient and productive
- ✓ Worldwide service

Impressive quality in many sectors

The technical excellence of our pneumatics components and systems is not only employed in industrial applications. Three other product divisions are closely associated with the history of the company: inverted tooth chain drive technology, marine, and truck.

Unmatched characteristics – our Inverted Tooth Chain product division

Modern machinery production requires drives that offer a high degree of economic efficiency and reliability. When it comes to precise, fast, and silent drives, AVENTICS inverted tooth chain drives meet these requirements perfectly: with small dimensions, high efficiency, a long service life, easy assembly, high speeds, extremely quiet operation, and high torques.

AVENTICS is one of the leading global manufacturers of inverted tooth chain drives. We offer premium drive and transport solutions on an international scale for a wide range of machines and systems.

Virtually noise-free inverted tooth chains, also known as “silent chains,” as well as the low-friction, 2-part rolling pivot joint form the technological basis for this range. Inverted tooth chain drives from AVENTICS offer high performance and reliability. In drive technology, they guarantee high precision in diverse applications at speeds of up to 50 m/s.

As an individual, cost-effective solution for conveyor equipment, inverted tooth conveyor chains increase the reliability of modern machines and production processes – in virtually every industry.



Your strong partner in the factory, on the sea, and on the road: AVENTICS

Ship controls from our Marine product division

In addition to safety, energy efficiency, cost-effectiveness, and environmental compatibility are becoming ever more important in shipping. We are your convincing partner with classified systems solutions for all applications and can guide you safely through all waters.

Developed by AVENTICS, our systematic Ship Control approach includes solutions and products such as remote controls, alarm and monitoring systems, and control units. Standard and modular concepts streamline your designs; open interfaces simplify communication. You benefit from the rapid implementation of new products, completed certifications, and commissioning assistance, combined with practical training courses.

Our pneumatic components for the automation of large engines and clutches, as well as our ballast tank systems, also ensure safe, reliable operation on rough seas. Robust designs and experience from over 60 years of marine technology make our components largely maintenance-free. Associated services such as planning and design, repairs or retrofits round off our offer.

Whether for sail training ships, high-tech freighters, fast yachts, or robust working vessels: the leading shipyards, shipping companies, and ship suppliers rely on AVENTICS.



Control components for your safety from our Truck product division

For all roads, all weather, and all seasons: truck components must be able to withstand extreme conditions, climate fluctuations, and vibrations – all around the world. Trucks are often driven across areas where it is difficult to reach qualified mechanics in a pinch. As a result, the quality and reliability of individual components is extremely important.

Our Truck product division includes customer-specific valves and cylinders for all control and switching tasks in and on trucks and buses. For decades we have been developing and producing systems for transmission and clutch control, and are currently bringing out new technical features for engines and turbochargers to meet the rising environmental requirements.

Due to our continuous efforts to satisfy our customers' needs while ensuring high quality, our production has been certified according to ISO/TS 16949 and 14001. That we manage to cover these diverse needs on global scale is evidenced by our most recent success with customers in Asia, whom we will start to supply from a local production site. Commercial vehicle manufacturers around the world rely on the high quality, reliability, and delivery performance of AVENTICS.



engineering-tools.com

Your homepage for non-stop service

Engineers and technical decision-makers have to tackle complex and time-consuming business processes every day. AVENTICS' Engineering Tools bundle the entire pneumatics range, application tools, and comprehensive expertise at one convenient online site.

Research tools, construction and configuration aids, circuit diagram software and the eShop are available online at www.engineering-tools.com. Our tools not only calculate basic component configurations, but also provide you with important notes on alternative solutions and more energy-efficient accessories. This allows you to accelerate your business processes and save all of your steps online so that you can access them again even after the project is finished.



Online catalog

The fastest point of entry is via our online catalog. Here you can start your search directly by entering a part number or keyword.



CAD

Your desired object can be issued here directly as a CAD file in various formats, as a PDF file, or for further configuration in your software.



Configurators

The configurator can be reached by clicking the selected product. After selecting your product, you can begin to adapt it to your own specifications.



Calculation programs

Here you can specify the dimensions or load-bearing capacity of your components with a wide variety of calculation options. We also provide an air consumption calculator as a special feature.



Circuit diagram software

With the D&C Scheme Editor, you can quickly and easily create circuit diagrams that are based on your component layout and linked to your catalog selection.



eShop

The eShop is our online shop that answers your price requests and monitors the whole order process up to delivery.

Our innovative approach: Always on the safe side with AVENTICS pneumatics

Safety legislation and standards regulate the design of modern machines and systems. Integrated safety systems can provide employees with even more efficient protection from dangers. When implemented intelligently, they also increase ergonomics and productivity.

Let's work together

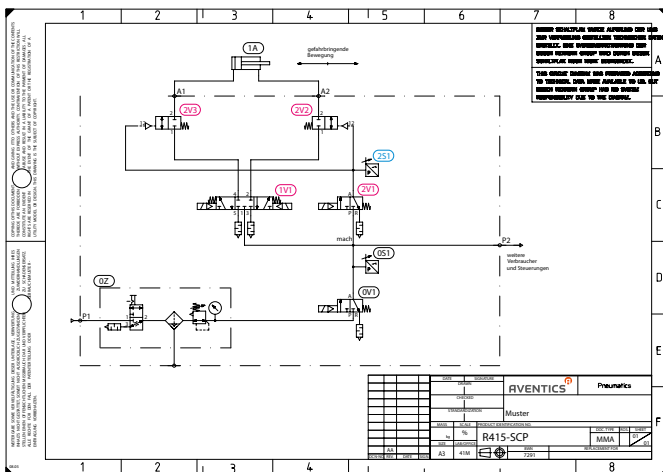
For machine manufacturers, the implementation of standard EN ISO 13849 poses a special challenge. We help you assess risks and define a performance level. In addition to standard-compliant products for your machines and systems, we also show you how to achieve the required service levels. We have developed a systematic concept for the assessment, design, and implementation of safety functions. Engineers can use these clear steps to define the required performance level in line with standards and finally validate the safety level achieved.

Safe solutions for various dangerous scenarios

AVENTICS solutions are diverse and customized individually to comply with the comprehensive danger definitions in standards, for example in the form of switching examples. The interaction between multiple standard components helps to realize a safety function that minimizes machine risk without requiring the purchase of costly safety components. Here, we provide the necessary components and compulsory documents.

10 steps to finding the performance level

1. Risk assessment
2. Identification of the safety function
3. Determination of the performance level
4. Category selection
5. Block diagram modeling
6. Faults and diagnostics
7. Determination of the performance level
8. Assessment of controller fault avoidance reliability
9. Software requirements
10. Verification and validation



▲ Pneumatic switching example for compliance with standard EN ISO 13849

The service world of AVENTICS



AVENTICS – convincing service worldwide

We offer a wide range of customer support and logistics services to assist you with our products beyond your purchase. When we develop your product, we simultaneously create a system-based service concept. Together with after-sales activities, this becomes the basis for accompanying work and service processes.

Up, up and away:

The AVENTICS high-bay warehouse

20,000 article numbers, 5,500 square meters, and 4,200 delivery items per day: all impressive figures. Even more impressive is the range of products that circulate through this space: O-rings weighing just a few grams run through the system, followed by 100 kg control cabinets. Although many processes are automated, over 50 employees work in a two-shift system to control, monitor, and pick goods.



Service and logistics without borders

Our worldwide network of service centers and partners ensures short distances, fast response times, and direct support. Committed personnel, professional coordination of service activities, and advanced logistics systems all ensure a high degree of availability around the globe – thanks to short routes, a fast response, and direct support.

■ **Field Service**

On-site service, error analysis, and troubleshooting, preventive maintenance, commissioning support, retrofits, process optimization, and other services

■ **Claim Handling Center**

Help desk, teleservice, diagnosis, as well as troubleshooting and claims management

■ **Competence Center Electronics**

Commissioning support, lab inspections for cause analyses, solutions for application problems, and preventive application testing

■ **Spare Parts Service**

Selection of required spare parts, information on pricing and delivery times, shipment, and consulting on spare parts management

■ **Repair Service**

Worldwide standardized repair process including software and hardware updates, express and immediate repairs, supply of replacement parts, and warranty management



◀ High-bay warehouse in Laatzen:
98 % of orders are processed
the same day.

AVENTICS GmbH
Ulmer Straße 4
30880 Laatzen, Germany
www.aventics.com
info@aventics.com



Your Contact:

<div data-bbox="98 1040 758 1076"></div>	<div data-bbox="758 1040 798 1076"></div>
<div data-bbox="98 1338 758 1374"></div>	<div data-bbox="758 1338 798 1374"></div>

Further contacts:
www.aventics.com/de/contact

The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.