



THORNE &
DERRICK
INTERNATIONAL

Thorne & Derrick
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AVENTICS:
AGILE, FOCUSED,
AND WITH PASSION FOR
TOMORROW'S MARKETS



“Our ambition is to become known as the smart pneumatic engineering company that is easy to do business with.”

Paul Cleaver, Chief Executive Officer

Our company

AVENTICS is a globally active manufacturer of pneumatic components and systems with around 2,100 employees.

“Passion, agile, and focused.” The AVENTICS brand values convey drive, commitment, and a customer focus that have made AVENTICS one of the leading suppliers of industrial pneumatics in the world – with tailored, cross-industry system solutions and services.

OUR VISION

We set trends in pneumatics and are the experts for special applications.

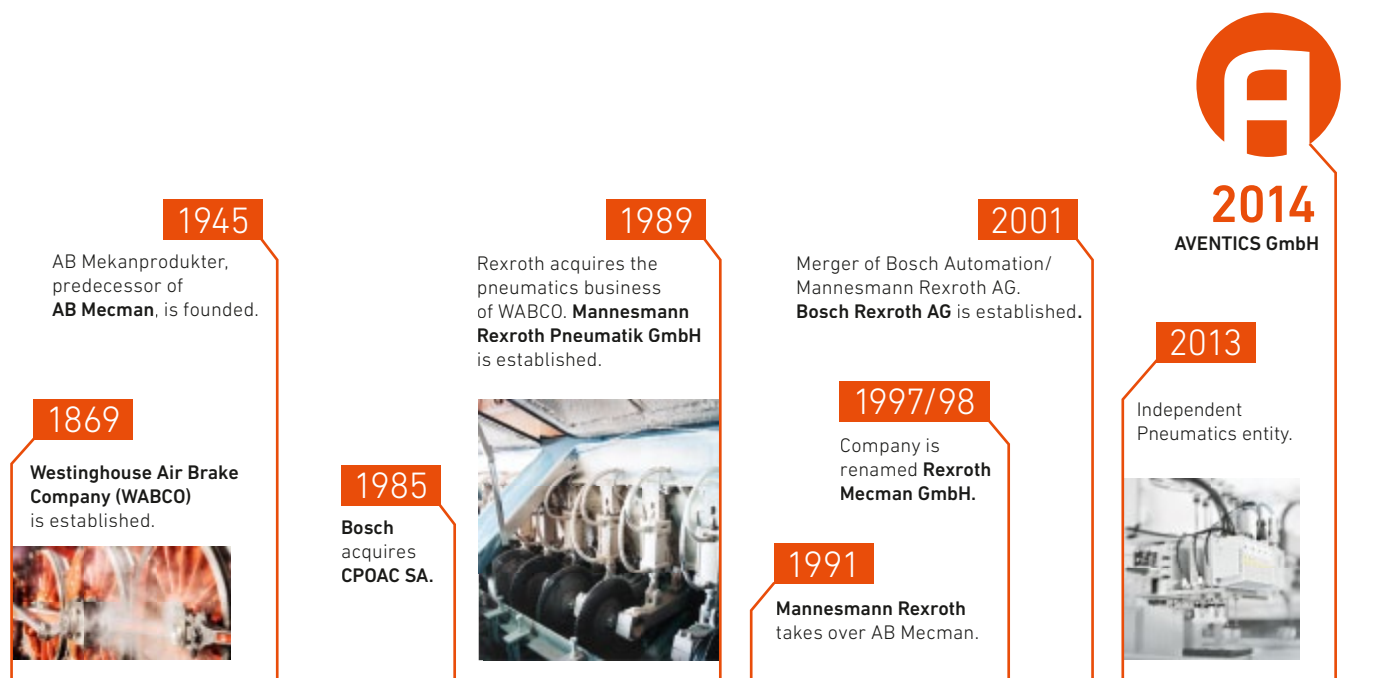


Future through heritage: The history of AVENTICS

The history of AVENTICS goes back to the invention of the pneumatic brake – and is being continued today with Industry 4.0.

“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. 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. The range of tasks for pneumatics has grown consistently and requires new solutions: With the interaction of the latest technologies and the integration of state-of-the-art

materials, with each new invention and each patent, the company's portfolio has expanded – strengthening our clientele throughout the decades. 2014 marks the beginning of a new era: AVENTICS said farewell to large corporate structures to pursue a future as a stand-alone, flexible company on the market.



CONTINUED QUALITY – THE NEXT GENERATION PNEUMATICS

Sustainability: Economy, ecology and social responsibility

Each new generation is based on the performance of its predecessors. Over AVENTICS' history, comprehensive expertise and excellent customer relations have gradually grown into today's NEXT GENERATION PNEUMATICS.

Environmental and social aspects have always played an important role in our corporate culture, as demonstrated by our corporate values. The internationally established phrase Environmental Social Governance illustrates that the success of the corporate management is measured by its approach to

quality, the environment, and social responsibility. We have always attached great importance to the fact that the quality of our products and services does not come at the expense of our and the next generations' environment.





→ Quality

For us, quality means consistently meeting the expectations of our customers. The simple formula: error prevention, not detection. We are certified according to ISO 9001 across the board and in areas we work in for the automotive industry, we are certified to ISO 16949. High customer satisfaction is proof of our quality.

Your advantages:

- Extensive application of quality methods
- Comprehensive preventive measures during the product development process
- Ergonomic workstation design
- Quick responses to customer queries

→ Values

Our corporate values are the guiding principles for our dealings with business partners, shareholders, employees – and society.

- Future-oriented approach and result focus
- Responsibility
- Initiative and determination
- Openness and trust
- Fairness
- Reliability, credibility, and legality
- Cultural diversity

→ Environment

The responsible treatment of nature and the environment is deep-seated in our corporate values. For AVENTICS, the sustainable use of resources means incorporating economic, environmental, and social potentials for value growth into our corporate strategy and fulfilling our social responsibility.

Additional environmental principles:

- Compliance with REACH & RoHS directives
- Waste prevention & recycling
- Certified in accordance with ISO 14001

→ Employees

Our employees are our greatest asset. We ensure ergonomic working conditions, a pleasant working atmosphere, and interactive collaboration.

We consider complying with work safety measures and ensuring healthy working conditions a matter of course. We consistently invest in the professional quality and further training of our employees. We live cultural diversity and advance employees regardless of their gender. We also attach great importance to the compatibility of family and career.

Shaping the future with the power of innovation

Our industry solutions showcase our know-how. We use our experience, creativity, expertise, and keen understanding of individual requirements to help you get ahead.



Industrial Automation

Efficient automation solutions: AVENTICS is characterized by reliable components, compact designs, and low-maintenance technology that result in short process times, high energy efficiency, and maximum economy.



Life Sciences

For products specifically engineered for medical applications, analysis and diagnosis in laboratories, and pharmaceutical and biopharmaceutical production, we offer solutions across the globe.



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).



Truck

Customer-specific pneumatic valves and cylinders for commercial vehicles, high-quality components for engines, turbochargers, and clutch controls – our product range offers all this and more.



Railway Technology

Robust, reliable, durable equipment, size constraints, temperature ranges, energy efficiency: these are a few of the hurdles which solutions from AVENTICS will help you successfully overcome. From braking to actuators, airflow, and control, all your specifications become AVENTICS solutions!



Energy

AVENTICS pneumatic valves for mobile and stationary applications in the oil and gas industry are valued for their durability, reliability, and precision, e.g. for vehicle transmissions and cranes.

Robust, precise, low-maintenance: Components from our standard range

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.



RTC



PRA

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 such as the AV series. One ultra-compact option is our ED series of electropneumatic pressure regulators, which offers excellent dynamics and accuracy, as well as digital control electronics.



ED02



AV05

Compressed air preparation and accessories

Our components prepare compressed air for any application, with functions that go far beyond the standard. Maintenance units from the AS family can be used in all applications with flow rates ranging from 1,200 to 14,500 l/min. They feature high reliability and an easy configuration.



AS3 with AF1

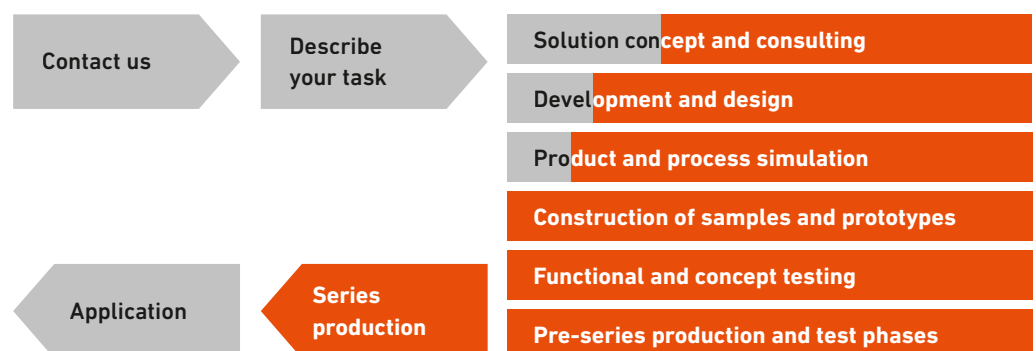
On-demand customization: We go the extra mile

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.

- Let us know what we can do for you and benefit from our specialized expertise! We will make headway on your individual pneumatic solution right away – even during the initial consultation.

- You with us
■ We for you



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.



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.



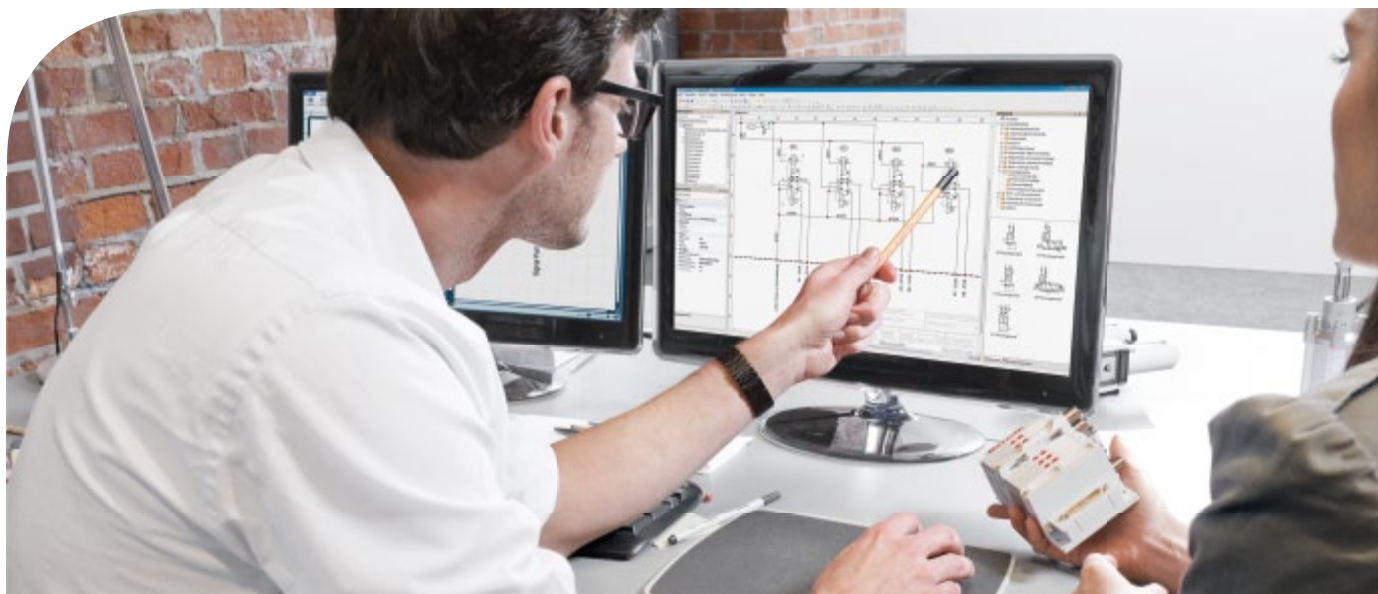
Circuit diagram software

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.



AVENTICS – at your disposal across the globe

As a customer of AVENTICS, you can always rely on professional support – from the commissioning of a pneumatic solution, to the replacement of a pneumatic spare part: any time, worldwide.

-  Corporate headquarters
-  Production sites
-  Sales companies
-  Production sites + Sales companies
-  Main sales partners

As of: 2015-03-01
Scale subject to change



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