VDMA

ADVANCING EUROPE'S MACHINERY INDUSTRY

FLUID POWER

Activity Report 2021–2025

presented at the General Assembly
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Source: Shutterstock

Our Network in Fluid Power

The most important data and facts about our industry at a glance for the reporting period 2021 – 2025.

Member Companies

238

Of which 14 are from other European countries

Employees

38,000

Significant employer with high technical competence

Turnover

8,5 bn. Euro

A powerful sector within mechanical and plant engineering

Export

60 %

Fluid Power from Germany and Europe is in demand worldwide

Content

Industry Association as an Active Shaper in the Interests of Member Companies

Interview with Dr. Steffen Haack, Chairman of the Board of Bosch Rexroth AG and Chairman of the Board of the Fluid Power Association. The interview was conducted by Hartmut Rauen, Managing Director of the VDMA Fluid Power Association and Deputy Managing Director of the VDMA.

Hartmut Rauen

Dr. Haack, as chairman of the Fluid Power Association within the VDMA since 2021, what has moved you the most during this time, which was characterized by massive global challenges such as the pandemic, the Ukraine war, and geopolitical tensions?
Dr. Steffen Haack: These four years have been very demanding – but also influential for the entire industry. It is really positive that fluid power has proven its resilience in the face of supply bottlenecks or the price explosions in energy and raw materials. We have been reliable, and both the companies and the association have acted flexibly. We have also used the time for strategic decisions. This concerns positioning in global competition – keyword China –, sustainability topics – keyword energy efficiency –, regulations – keyword PFAS – and digitalization. All of this strengthens my conviction that we still have a lot ahead of us with our technology.

Which priorities did you focus on during your time as chairman, and what were the key achievements of the association throughout your term?
Dr. Steffen Haack: We have strategically developed the association and systematically anchored central future topics. To specifically advance the topics of digitalization, sustainability, and education, we have established three new working groups on the board and also at the working level and won a publicly funded project called "Fluid 4.0" from the Ministry of Economic Affairs and Energy. This initiative brings fluid power and Industry 4.0 closer together by promoting industrial digital twins, connected components, and standardized interfaces – with a consistent focus on mechanical engineers as customers and on delivering value to both manufacturers and users.

With a view towards China, India, or the geopolitical situation in Russia, we have sharpened our international perspective and reassessed our own position. This requires not only deep market knowledge but also a coordinated approach with our partner associations, for example in the USA, Europe, and Japan.

At the same time, we have strengthened European cooperation – both through the involvement of the European umbrella organization CETOP and by expanding the position of the VDMA in Europe. These steps were crucial to being able to speak with one voice as an industry in Brussels. The association is therefore not just a discussion forum, but an active shaper in the interests of our member companies.

Thank you for these insights, which show how much has been moved and initiated in recent years. Looking ahead, what do you see as the key challenges and strategic tasks for fluid power – especially in the context of intensifying global competition, rapid technological change, and evolving political conditions?
Dr. Steffen Haack: The framework conditions are currently changing fundamentally, also for fluid power. It is no longer just about technological development. Competitive solutions must prove themselves in an environment characterized by technological change, global competition, and political objectives.

First, it is about integrating the advantages of fluid power – high power density, robustness, reliability – into modern,

Dr. Steffen Haack

networked, data-based machine concepts. Here we need to do basic work across companies regarding digitalization. Let us remember: Fluid power achieved a breakthrough decades ago by creating mechanical standards. In the digital age, we are now laying the foundations for future product data standards.

Moreover, the political initiatives of the EU and Germany make it clear how closely ecological, economical, and industrial aspects are linked today. One of our main tasks is to make our products and systems more energy-efficient and to reduce CO_2 emissions both during the production of products and later during the operational phase. In other words, we help our customers build better machines and gain a competitive edge in the global arena.

Beyond that, I see a lot of potential in environmental compatibility and the use of artificial intelligence.

What do you see as the central tasks of the Fluid Power Association in the coming years?

Dr. Steffen Haack: : The association will take on an even stronger role as an initiator, pioneer, and networker. It needs an organization that provides orientation and is able to bundle the important forces in the fluid power ecosystem.

What motivates me is the thought of achieving more together than individual initiatives ever could.

I see four important fields of action:

Standardization: Only through common standards can our industry remain internationally competitive as an industry and set trends from Germany.

Sustainability: Here we can become pioneers with a clear focus on energy-efficient and digital connected solutions.

Technology transfer: It is important to strengthen the exchange and cooperation between universities and industry to defend and expand our leading position in international competition.

Training and education: Promoting young talents is not a marginal task, but an investment in the future of our industry. We need to inspire young people for technical professions and show them how versatile and meaningful a career path in fluid power can be.

Topics such as resilience and supply security will also continue to gain importance. The past years have shown how vulnerable global supply chains can be – this requires strategic answers at the association level. And finally, international exchange is essential: maintaining networks across national borders is indispensable, especially for an export-oriented industry like ours.

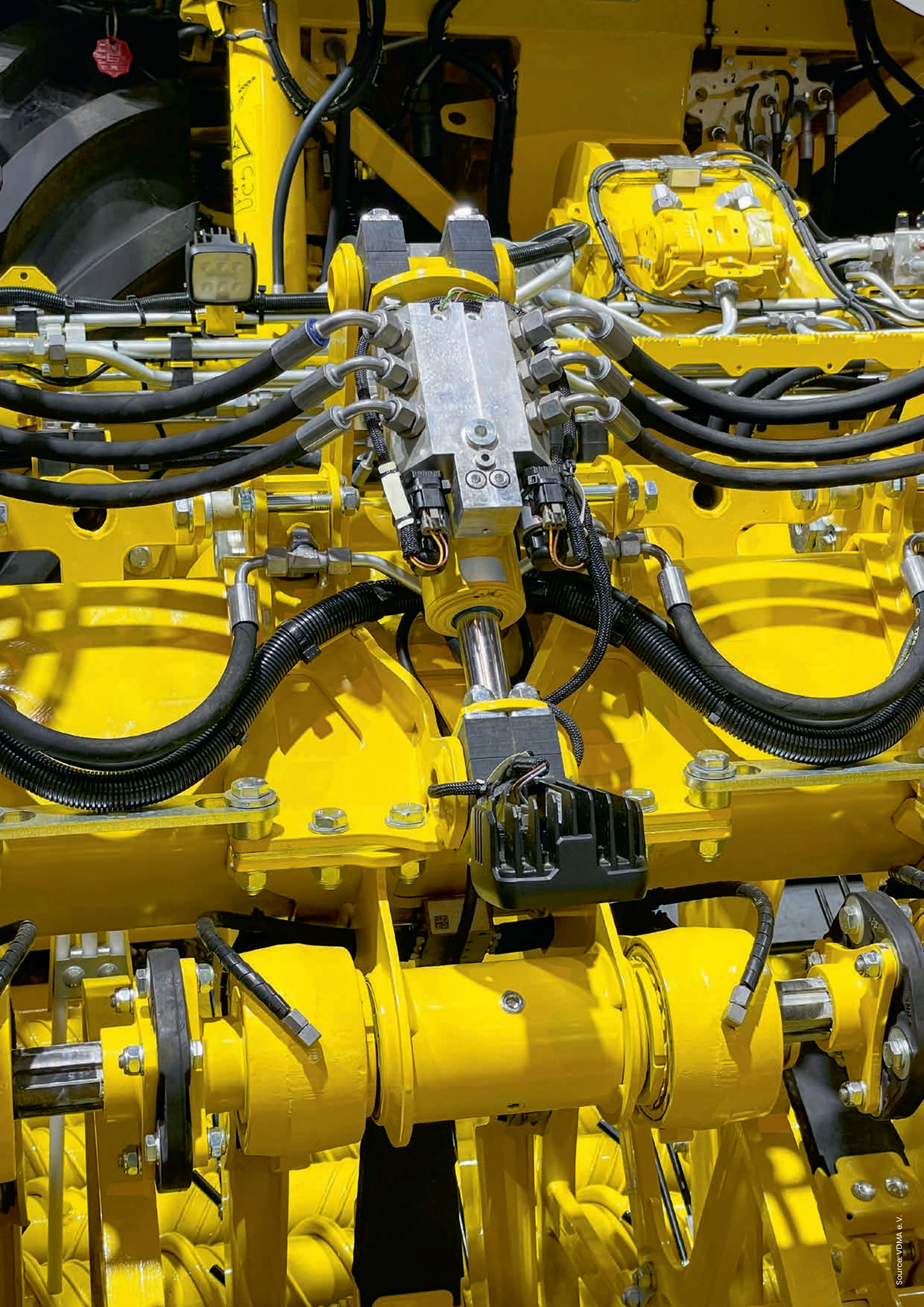
You are intensively involved – at Bosch Rexroth, in the VDMA, and in the European committee CETOP. What inspires and drives you personally?
Dr. Steffen Haack: What motivates me is the thought of achieving more together than individual initiatives ever could. Especially in our association, I appreciate the opportunity to actively shape future topics – in close exchange with committed professionals from the industry. This dialogue is not only valuable in terms of content. The joint actions give our topics the necessary impact to really advance digitalization, sustainability, or ensuring the education and availability of skilled workers. There are many examples of these activities, such as the joint stand and the discussion forum on Fluid 4.0 at the HANNOVER MESSE or the strengthened cooperation with European universities.

At CETOP, I appreciate the European perspective. In times of growing geopolitical tensions, it is even more important that Europe stands together technologically. Digitalization only works when we do it together, which is why we advocate for the active participation of all member companies. For me, this commitment is not an obligation, but a deliberate decision – and an investment in the future of our industry and our company.

And what personally gives me strength: the opportunity to actively and responsibly contribute to the interface of technology, application, and for the benefit of fluid power users.

Thank you, Dr. Haack, for your great personal commitment to our association!

Our thanks include all board members, volunteers in committees, working groups, task forces, etc. – it is a great feeling to be able to rely on such a strong network – for the benefit of our industry.



Source: VDMA e. V.

Strategic Topics in Fluid Power

To remain technologically and economically successful in the future, three strategic areas have been identified as particularly relevant: digitalization, sustainability, and education. Central governance and monitoring are carried out directly by the board of the specialist association.

Digitalization

Fluid power solutions need to become more efficient and intelligent to remain competitive technologically and on the global market. The digitalization of components, systems, and services creates prerequisites for this and opens up new opportunities and business models such as predictive maintenance, condition monitoring, or data-driven optimization of energy, and resource efficiency. The asset administration shell (AAS) as the industrial digital twin for fluid power products forms the backbone for interoperability, e.g., with OPC UA and in the context of Manufacturing-X and corresponding data spaces. It increases the added value along the value chain and supports compliance with regulatory requirements such as the Digital Product Passport (DPP).

Digitalization Key Points:

- Asset administration shell (AAS) as a fluid power digital twin
- Standardized characteristics and submodels: Basis for a standardized, unambiguous AAS
- Standardization activities since 2016 at IDTA, ECLASS and ISO
- Development of user-oriented use cases and conducting workshops
- Resulted in the digitalization joint research project Fluid 4.0, a Manufacturing-X project

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Sustainability

Political and societal stakeholders are increasingly calling for sustainable concepts and solutions that deliver both ecological and economic benefits. At the same time, regulatory requirements are placing growing demands on the availability of key performance indicators and transparent reporting.

Current Topics in Sustainability:

- CO_2 footprint (Product Carbon Footprint, PCF) of fluid power products up to the factory gate (Cradle-to-Gate) and during the usage phase
- Energy efficiency
- Resource efficiency/Circular Economy

The joint research project Fluid 4.0 is intended to provide digital solutions for the mentioned topics. Projects financed through the Fluid Power Research Fund additionally support companies in developing uniform, practical calculation methods for determining the PCF.

- Material requirements, e.g., regarding lead and PFAS

Thanks to the efforts of the Fluid Power Association in conjunction with the entire VDMA and other associations, the current draft for the restriction of PFAS substances now includes new exemptions for industrial sealing and machine applications (see p. 14).

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Education

In light of the challenging developments in education, the Fluid Power Education Fund (Bildungsfonds Fluidtechnik, BFF) is being established. Its activities aim to ensure that fluid power education in Germany remains future-proof and that the urgently needed next generation of experts is optimally prepared. Teaching concepts, practical projects, and the recruitment of young talents can be sustainably supported through cooperation, activities, and targeted financial support– a crucial contribution to not losing touch with international developments and ensuring the long-term competitiveness of the entire industry.

Even before the official start of the BFF, numerous activities are taking place in the Working Group Teaching: Universities and industry are working closely together in meetings and workshops. The current focus is on modular teaching materials and lecture slides, examples with image and video material, and the pilot project "Fluid Power Challenge".

Fluid Power Education Fund at a Glance:

- Organizationally located at FKM (Research Association for Mechanical and Plant Engineering e. V.)
- Voluntary, earmarked donations from companies to the non-profit FKM ensure BFF funding
- Focus on
  - People (e.g., networks, student work, guest lecturers, internships)
  - Content (e.g., teaching materials, examples, projects)
  - Material (e.g., laboratory equipment, exhibits)

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Industry-Science-Dialogue (ISD)

The Industry-Science-Dialogue forms a central platform for exchange between companies and scientific institutions in the field of fluid power throughout Europe. As such, the ISD is a strategic activity of the VDMA Fluid Power association that contributes to digitalization, sustainability and education activities and aims to maintain and expand the technological leadership of European fluid power. The goal is to create synergies in research and teaching, research practical topics, and address technological challenges together. The networking of universities with each other and with industry must be strengthened to better cooperate and act and to appear as a strong, united Europe in international competition.

The ISD at a Glance:

- Started in 2024 as an initiative of the VDMA
- "Nucleus Group" with six industry representatives and five professors from across Europe as the core team of the ISD and drivers of activities
- Meetings and workshops of European universities
- Adaptation of the USA Fluid Power Technology Roadmap to Europe
- Initiatives and contacts with EU representatives to obtain European funding
- Since June 2025: ISD located at CETOP, the European Fluid Power Committee, in the Research Commission
- Academic European Fluid Power Society in formation (cooperation with CETOP within the framework of the ISD)

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Analyzing and Using Market Information and Economic Data

Market Information and Economic Data – Exclusively for Our Members

The Fluid Power Association offers its members a wide range of market information tailored to the interests of the industry. Sources include surveys within the membership. A high representation rate (85 to 90 percent) ensures the high relevance of the data. Such meaningful and up-to-date data for fluid power is not available from any other source.

The Working Groups Market Analysis Hydraulics resp. Pneumatics are closely involved in the design of the statistics. This ensures that the surveys are tailored to the needs of the companies. The results are available exclusively to the participating member companies.

European and international market information is also available to members. Through the European Fluid Power Committee (CETOP) and the International Statistics Committee (ISC), there is a close cooperation with more than 20 European and international fluid power associations.

The Fluid Power Association offers its members the following market information:

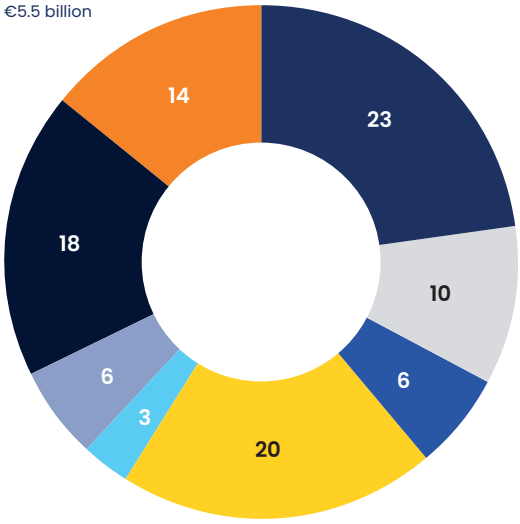
Monthly:
- Monthly reports on hydraulics and pneumatics
- Early indicator systems for hydraulics and pneumatics
- Ifo economic test for hydraulics and pneumatics

Quarterly:
- Data sheet on fluid power
- Mobima Bulletin
- India Newsletter

Fluid Power – Product Groups

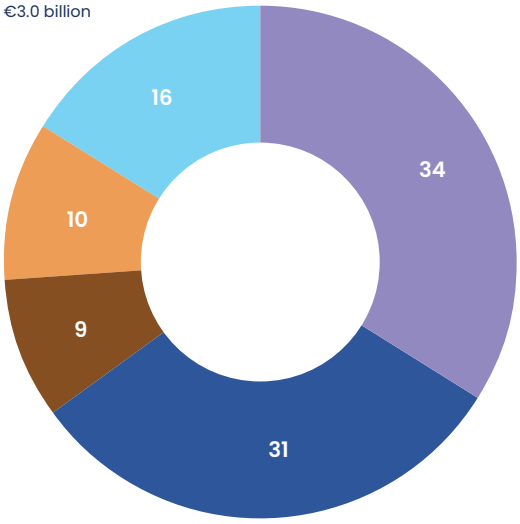
in % of total sales

Hydraulics
€5.5 billion



- Hydraulic pumps
- Hydraulic motors
- Hydraulic cylinders
- Hydraulic valves
- Separate electronics
- Filters
- Accessories
- Other hydraulic products

Pneumatics
€3.0 billion



- Drives (cylinders, motors)
- Valves
- Air preparation components
- Connectors & Tubes
- Other pneumatic products

Source: VDMA Fluid Power

Semi-annually:

- Economic reports on the automotive and supplier industry (Brazil, China, India, Mexico, Romania, South Korea, Czech Republic, Turkey, Ukraine, USA)

Annually:

- Product statistics for hydraulics and pneumatics
- Customer industries surveys for hydraulics and pneumatics
- World market estimate for pneumatics

Further statistics published in cooperation with CETOP and ISC can be found under CETOP, see below.

VDMA Statistics

Through the integration of the Fluid Power Association into the VDMA, member companies have access to a wide range of additional information on important customer industries.

- **VDMA Economic Survey**
  The VDMA Economic Survey provides quarterly information on the economic situation and development in the machinery and equipment manufacturing industry and its sub-sectors. Participants in the survey have access to information not only for fluid power, hydraulics and pneumatics, but also for customer industries in mechanical engineering, such as construction machinery, machine tools, agricultural machinery, food and packaging machinery etc.

- **VDMA Statistics Database**
  The database offers all VDMA member companies quick and convenient access to economic information related to mechanical engineering. National and international data are available. In addition to the possibility of conducting their own research, the statistics database also offers ready-made downloads, including graphics on the economy. The access to the VDMA order intake and sales statistics for Germany is exclusively reserved for those companies that participate in the survey.

National and International Web Conferences on the Economy

In cooperation with CETOP and ISC, the Fluid Power Association offers its members web conferences on the economy where they can get first-hand information on the economy both in Germany and other countries.

- **National Economy Web Conferences**
  The Economic Committee, the central body of the association for industry-relevant topics related to corporate management, meets several times a year in web conferences. Presentations on the current economic situation and perspectives as well as the presentation of current survey results of the association are the main components of this concept. In addition to the economy, topics such as the USA, the construction machinery industry as customer industry, industrial energy supply, PFAS etc. are on the agenda.

- **International Market Outlook Web Conferences**
  An example of the excellent European and international network in fluid power are the CETOP Market Outlook Web Conferences, which take place about twice a year. The CETOP associations present the current economic situation and outlook for fluid power in their country. The country-specific information and presentations are available to members in the member area of the CETOP website. Member companies can, of course, participate in the events.

cetop
The Voice of the European Fluid Power Industry

CETOP – Your Voice in Europe and Worldwide

The Fluid Power Association holds the General Secretariat of CETOP. CETOP is the European umbrella organization for fluid power, whose member associations from 17 countries represent over 1,000 companies with more than 70,000 employees and a domestic market of €16 billion Euro.
In 2022, CETOP celebrated its 60th Anniversary.

CETOP offers:

- European and international market data
- Information on European fluid power
- Online buyers' guide CETOP Directory
- Training and further education initiative
- Representation of interests in European initiatives
- Interpretation of EU Directives regarding the impact on industry
- Position papers as industry's response to the EU Commission's initiatives etc.

At the annual General Assembly, CETOP activities are discussed with the member associations to get their approval. In 2025, another Commission was established: the CETOP Research Commission which will coordinate the activities related to the dialogue between industry and universities (Industry-Science-Dialogue, see p. 9), and other topics.

European Expert Networks

The several tasks of CETOP are reflected in the various Commissions and other bodies. The Fluid Power Association leads the secretariat for some of these, marked with "VDMA" in the list below. The Commissions usually meet once a year in person. In-between, web conferences are held.

Activities:

- Economic Commission (VDMA)
- Education Commission
- Marketing and Communication Commission (VDMA)
- Research Commission (VDMA)
- Technical Commission
- Industry-Science-Dialogue (ISD)
- International Motion & Drives Summit

CETOP Publications during the Reporting Period:

- "CETOP Directory 2025/2026", the European buyers' guide on fluid power products and companies
- CETOP Position Papers ("Machinery Directive" and "Pressure Equipment Directive")
- CETOP Education Recommendations
- CETOP Lists ("Technical Magazines in Europe" and "Main Universities and Institutes")
- CETOP Flyers "European Fluid Power – Efficient, Sustainable and Digitized" and "European Fluid Power – Digitalization for Mobile and Industrial Applications"

CETOP and ISC Market Information – Exclusively for Members

At ISC, CETOP cooperates with associations from China, Japan, Taiwan, and the USA. Exclusive market data and economic information on global fluid power are a result of this cooperation.

- Market Outlook Web Conferences with country presentations on the economy

- CETOP and ISC Statistics
  - CETOP/ISC Monthly Exchange on Tendencies
  - CETOP/ISC Trend Survey "State of Business"
  - CETOP Annual Product Statistics
  - ISC Annual Product Statistics

Further information at cetop.org

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Source: CETOP


Source: VDMA e.V.

Technology and Standardization – Securing and Expanding Competitiveness and Innovation

Technical Advocacy – EU Legislation and Standardization

We support our members through

- Representing the interests of the fluid power industry to politics and the public
- Advocating practical regulations in legislative processes
- Interpreting European rules such as the Pressure Equipment Directive or the European Chemicals Regulation (REACH)
- Creating standards to ensure competitiveness and market leadership
- Advising on guidelines, regulations, or standards

Working Groups

Technical working groups of the association, which meet when necessary, offer members forums for industry-relevant topics in the field of technical advocacy.

Example working groups:

- Industry 4.0 – Fluid Power Working Group
- Pressure Equipment Directive Working Group
- Hydraulic Cylinders Working Group
- Machinery Directive Working Group

PFAS-Ban

A major topic in recent years has been the proposed PFAS-ban. The Fluid Power Association and numerous members participated in the public consultation of the European Chemicals Agency (ECHA) on the planned ban of per- and polyfluorinated alkyl substances (PFAS) and highlighted the necessity of their use and the consequences of a ban.

Since the submission of the PFAS restriction dossier in January 2024, it has been revised based on feedback from the stakeholder consultation. The current draft includes exemptions for fluoropolymers and perfluoropolyethers. This affects standard materials such as FKM and PTFE: these may continue to be used in industrial sealing and machinery applications for 13 years after the ban comes into effect.

These results show a change in the legislators' thinking. The VDMA will continue to advocate for the interests of fluid power in the ongoing process.

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Sealing Technology in the VDMA

Seals are small but integral components found at almost every relevant interface in mechanical engineering and hold a key position in fluid power for sealing pressurized fluids and air. Therefore, the Fluid Power Association advocates for the interests of the sealing industry and is the central point of contact for sealing technology companies.

Working Groups

In the two working groups on Fluid Seals and Mechanical Seals, the association informs and exchanges views on current technical and economic issues. In recent years, the focus of activities has been primarily on the potential PFAS-ban.

International Sealing Conference (ISC)

Every two years – including 2022 and 2024 – the Fluid Power Association, together with the Institute of Machine Components (IMA) at the University of Stuttgart/Germany, organizes the International Sealing Conference. Over the years, the ISC has established itself as an international platform for exchange within the sealing industry. The significance of the ISC is highlighted by the proportion of foreign visitors, which exceeded one-third in 2024. The 23rd ISC will take place from September 30th to October 1st, 2026, in Leinfelden-Echterdingen near Stuttgart.

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Standardization Activities

The recent developments highlight the importance of standards for market development and design. The Fluid Power Association has been actively involved in numerous standardization committees at national, European, and international levels for decades in the interest of its members:

- VDMA
- DIN
- CEN
- ISO

The focus is on advocacy in international standardization, where several projects on energy efficiency – driven by German Fluid Power – are being worked on or have been completed. The association is involved at the national level in 24 committees of the DIN Standards Committee Mechanical Engineering (NAM) and internationally in 32 ISO committees. Of these, 14 secretariats are led by the VDMA. In more than 300 DIN or ISO meetings, around 4,000 people discussed standards during the reporting period.

Fluid Power Standards

- 239 ISO standards and 31 ongoing projects
- 75 DIN, DIN-ISO, and DIN-EN-ISO standards
- 21 VDMA specifications

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The Association and its Events

- **62 working group meetings** with more than **1,600 participants**
- **8 conferences** with more than **800 participants**
- **9 joint stands** at trade fairs in Germany with **66 member companies**
- **133 DIN meetings** with **1,148 participants**
- **169 ISO meetings** with more than **2,860 participants**
- **67 meetings** of the **Fluid Power Research Fund** with nearly **1,500 participants**
- **4 International Management Meetings** with around **120 participants**
- **21 CETOP events** with more than **300 participants**

Joint Industrial Research as Foundation for Progress

Pre-competitive joint industrial research in fluid power has always been a success model – driven by the close integration between industry and science and a guarantee for practical innovations that sustainably strengthen Germany as a technology location.

In 2025, the Fluid Power Research Fund celebrated its 50th anniversary. A look into history shows how the foundation for this close cooperation was laid as early as the early 1970s. What began with a few projects is now a broadly based network with international appeal. This continuity is both an obligation and an incentive to continue actively shaping the research landscape of fluid power in the future.

Whether in the development of energy-efficient systems, the optimization or digitalization of components, system or sustainability topics, the exploration of new materials or basic projects – the needs of the industry have always been at the center of scientific questions. The results flow directly into industrial applications, thus ensuring the competitiveness of the sector. At the same time, the Research Fund promotes the training of urgently needed fluid power specialists with an average of around twelve projects per year (equivalent to around three to four PhD theses and 50 to 60 student theses per year), with the support of institutes and the accompaniment of conferences.

Special thanks go to all those involved in the companies and research institutions who work with great commitment and foresight on the future of fluid power. Their dedication is the foundation for the future well-being of our industry.

Fluid Power Research Fund in Brief

- 50 years, around 50 companies, around 200 projects
- 67 meetings with nearly 1,500 participants during the reporting period
- Close cooperation with universities and institutes
- Research as a bridge between theory and industrial practice
- Results flow directly into industrial applications
- Commitment of all participants as the key to success
- Topics include digitalization, sustainability, efficiency, components & systems, data & machine learning, tribology

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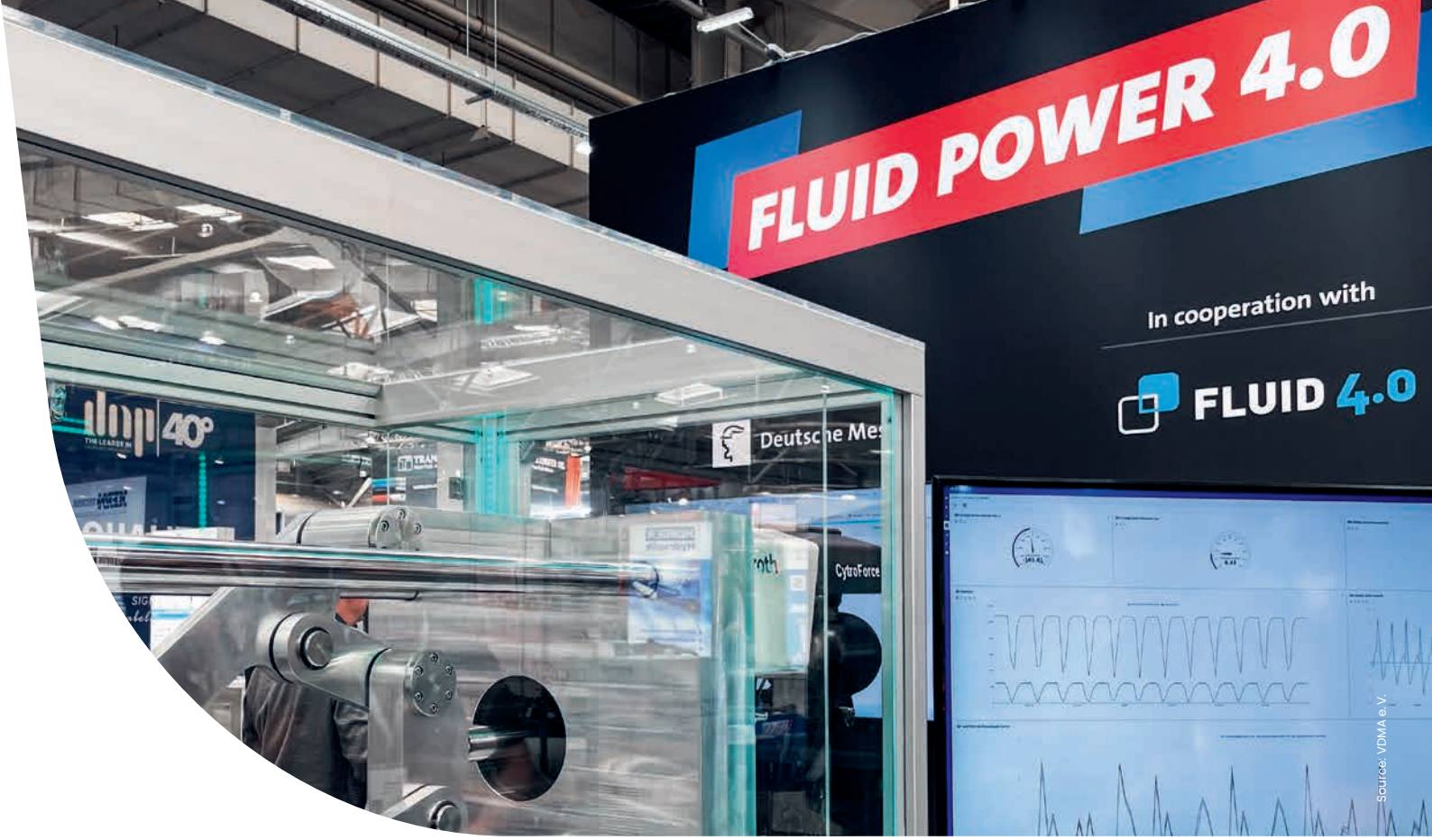

Shaping Digitalization in Fluid Power Together

Fluid 4.0 Joint Research Project

With the start of the Fluid 4.0 joint research project on January 1st, 2024 a milestone for the digitalization of fluid power was set. The goal is to digitally describe, connect, and optimize fluid power components and systems throughout their entire lifecycle – based on the Asset Administration Shell (AAS) as the digital fluid power twin.

Fluid 4.0 brings together manufacturers, machine and plant builders, users, and service providers in a joint project for the first time. In four industry-relevant use cases – from control development to energy monitoring and CO_2 balancing to circular economy – concrete applications are developed and demonstrated. The AAS acts as the central instance for system management and enables standardized, secure, and role-based data exchange.

The project builds on the long-standing preliminary work of the VDMA Fluid Power Digitalization Working Group. The first demonstrators were already presented at HANNOVER MESSE 2023, and the approach was also showcased at trade fairs such as bauma and AGRITECHNICA. A special highlight was the Fluid Power 4.0 special show at HANNOVER MESSE 2025 with 20 stands and two central eye-catchers from the participating project partners. The commitment and intensive collaboration of partners from industry and research show that fluid power is ready for the next (digital) evolutionary leap.

- Project duration: January 1st, 2024 to July 31st, 2026
- 15 active partners, 18 associated partners
- Project volume: €13.4 million Euro

Fluid 4.0 at a Glance

- AAS as a digital twin for fluid power components and systems
- Four use cases:
  - systems and control
  - energy efficiency
  - carbon footprint
  - circular economy
- Data space for secure, standardized data exchange
- Demonstrators, hackathons, trade fair appearances, and Fluid Power 4.0 special show
- Close collaboration between industry and research
- Fluid 4.0 as a path to the future and a bridge between technology and sustainability

The project is funded by the European Union (NextGenerationEU) and supported by the Federal Ministry for Economic Affairs and Energy based on a resolution of the German Bundestag.

More information on the project website: Fluid40.de

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Source: VDMA e. V.

Data Ecosystems – with X into the Data Space

Data ecosystems are the key to greater competitiveness in mechanical and plant engineering. The VDMA has successfully contributed to the founding of the Manufacturing-X initiative, and since then, data spaces have been created in various industries. The VDMA is involved in the X-projects Factory-X, SM4RTENANCE SCALE-MX, RoX, Wind-X, , and Fluid 4.0 and is also committed to ensuring that data exchange runs smoothly.

For small and medium-sized enterprises, there is an opportunity to develop new data-based business models with additional service offerings and to realize efficient AI applications. At HANNOVER MESSE 2025, a first implementation of the MX-PortArchitecture was shown, which allows a company to, for example, consolidate data on the Product Carbon Footprint of its factories worldwide via the data space. With this “X for Machinery“ architecture developed by the VDMA, easy access to the data space is achieved.

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Trade Fairs and Events Strengthen Networks and Create Visibility

The association offers a variety of events for intensive exchange – from high-level congresses to trade fairs, both in Germany and worldwide. We support member companies in presenting themselves as competent solution providers in Germany and worldwide.

International Events and Congresses

- Management Meetings in China and India
- International Motion & Drives Summit (CETOP)
- Exclusive Member Events:
  - Fluid Power Info Day "Technics and Standardization"
  - Events of the Fluid Power Research Fund
- International Fluid Power Colloquium (IFK) at RWTH Aachen and TU Dresden
- International Sealing Conference (ISC) with IMA, University of Stuttgart
- Colloquium on Mobile Hydraulics at KIT, Karlsruhe and TU Braunschweig

Trade Fairs in Germany and Worldwide

Joint stands in Germany – exclusively for member companies:

- HANNOVER MESSE
- AGRITECHNICA Systems & Components (for agricultural machinery suppliers)
- bauma (for construction and building materials machinery suppliers)
- LIGNA (for woodworking machinery suppliers)
- Others possible upon request of member companies

These joint stands are organized by VDMA Services GmbH, a subsidiary of VDMA e. V.

Source: VDMA e.V.

German Pavilions at Trade Fairs Abroad

The so-called German Pavilions are approved and financially supported by the Federal Ministry for Economic Affairs and Energy upon application by the Fluid Power Association during the reporting period.

- PTC ASIA, Shanghai/P.R. of China (Drive Technology and Fluid Power as well as other sectors)
- WIN Eurasia, Istanbul/Turkey (Drive Technology and Fluid Power as well as other sectors)
- Until 2022: HANNOVER MESSE North America as part of IMTS, Chicago/USA
- Others possible upon request of member companies

Forums and Special Shows at Trade Fairs

- Forums: Smart Manufacturing, Industry 4.0, Smart & Efficient Fluid Power
- At HANNOVER MESSE 2025 additionally:
  - Conference Stage "Smart & Sustainable Fluid Power and Power Transmission Engineering"
  - Special show Fluid Power 4.0

Working Group Trade Fairs/Marketing Power Transmission Engineering and Fluid Power

In the working group, members exchange ideas on trade fair and marketing topics. Impulse lectures on current topics provide both knowledge and inspiration, serving as a foundation for constructive dialogue among participants. In the last four years, topics included sustainability at trade fairs, AI in marketing and sales, social media as a driver of brand building, and more.

Public Relations

We generate visibility and reach through targeted communication across multiple channels.

- Publication: "Innovative Sealing Technology" with Manufacturer's Directory
- Publication: "Fluid Power – The Network of the Industry"
- Publication: "CETOP Directory 2025/2026" with Europe-wide Manufacturer's Directory
- Newsletter, approximately quarterly, registration via vdma.eu (see below)
- Press events
- Social media

Digital Platform vdma.eu

The OneVDMA platform offers members direct access to VDMA's services and promotes digital collaboration across the entire network. Through the subpage vdma.eu/fluid-power, targeted information on the work of the Fluid Power Association can be accessed. The personalized and exclusive access via my.vdma.eu (registration required) also allows information to be tailored to the needs of the individual user – give it a try!

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A big thank you to all volunteers!

Dear Chairpersons and Heads of Committees and Working Groups, esteemed members of our diverse committee world of the Fluid Power Association,

On behalf of the Board of the Fluid Power Association and the entire office, we would like to express our sincere thanks to you.

Your voluntary work and personal commitment are invaluable to our industry and the achievement of our common goals. Without your valuable cooperation, many of our working groups or the success in standardization and guideline work would not have been possible – thank you for your long-standing support!

We look forward to continuing our collaboration with you and hope that you have also enjoyed it a little – just as we have!

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Working Group Sealing Sheets (to be integrated into the Working Group Fluid Seals in the future)
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Working Group Mechanical Seals
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(as of 11 July 2025)

* also a member of the Fluid Power Research Fund

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ACE Stoßdämpfer GmbH

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ifm network & control gmbh
ifm process gmbh
ifm prover gmbh
ifm stiftung & co. kg
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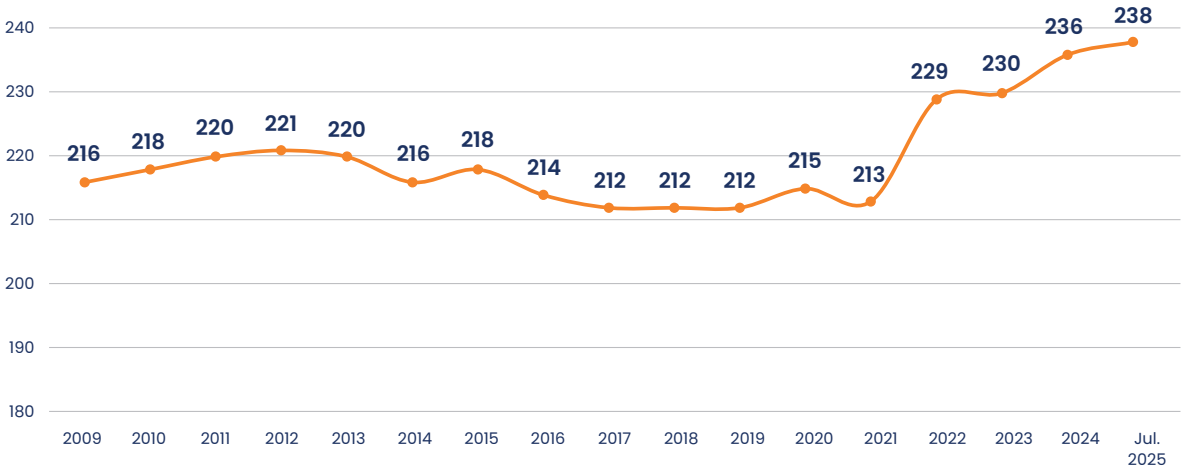
WIKA Alexander Wiegand SE & Co. KG

Wilhelm Winter GmbH & Co. KG Maschinenbau

ZF Friedrichshafen AG

Membership Development
Membership status at the end of each year as well as July 2025

Of which 14 are European member companies



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