



Even when Neil Armstrong set foot on the moon, some of his equipment consisted of **3M** products. Today, 3M innovations can be found in almost all areas of life, the world of work, medicine, and technology. No wonder, after all, 51 basic technologies, 8,000 researchers and over 100,000 registered patents provide the expertise to constantly develop new and imaginative solutions: Last year, we invested around 1.9 billion US dollars in research and development for this purpose. Innovation by tradition - for our customers. Because only knowledge, experience and interdisciplinary thinking can solve the challenging tasks of our time.

For more than 70 years, our high-quality electrical products have been impressing customers with safe solutions for the construction and maintenance of medium and low-voltage grids. Cost-effectiveness, reliability, and ease of installation - these are the requirements that our solutions must fulfil to a high degree.



**Aumann** Espelkamp GmbH develops and realises special machines and production lines for sophisticated e-mobility projects and products. With Aumann locations in Germany, the Chinese company in Changzhou and a team in the USA, we support customers and partners flexibly and globally. The goal: world market leader in specialised machines and production lines in the field of e-mobility.

Our unique winding technology enables customers to switch to automated mass production for electric motors and achieve outstanding quality.

We have long-standing relationships with manufacturers from the automotive industry and have developed a large number of manufacturing solutions in the field of electric and conventional drivetrains, whose technology we can also market very well for the manufacture of components for electric drivetrains.



For more than 80 years, **Axalta's Energy Solutions** has been an international leader in the manufacture of high-quality and high-performance insulation coatings. Energy Solutions has a proven track record with all major manufacturers of electrical equipment across all segments, including energy generation, transformation and distribution, industrial motors, household appliances and power tools, automotive components, and electrical motors for the power-train of electric and hybrid electric vehicles.

The three Energy Solutions segments - wire enamels, impregnating resins and electrical steel coatings - represent a broad range of insulation materials for a consistently growing energy market. The product lines are designed to fulfill the continuously increasing requirements of modern and environmentally conscious materials. With a global presence of development and service facilities, technical expertise and high product quality Energy Solutions creates a great value for customers.



**CMC Klebtechnik**, based in Frankenthal, is a company that specialises in adhesive technologies and offers a wide range of technical adhesive tapes. These are used in sectors such as the automotive industry, the electrical and electronics industry, the field of renewable energy generation and many others.

The company is known for its technical expertise and customised solutions to meet customer requirements and provide innovative adhesive solutions for a wide range of applications. The in-house coating facilities and numerous slitting, die-cutting and laminating machines enable customised solutions from product development and coating to completely individual roll widths and die-cut parts.



The **Demak Group** is a leading manufacturer of dispensing systems and polyurethane & epoxy resin systems. Thanks to our many years of mechanical and chemical expertise, we are able to provide comprehensive support (360° service) for every customer and every project in the field of dispensing technology. With two established subsidiaries in the USA & Brazil, as well as the new emerging subsidiaries in China and Germany, the Group can support its customers worldwide with technical service, spare parts, and sales.



**ELANTAS** is part of the ALTANA Group and is a leading manufacturer of insulating and protective materials for the electrical and electronics industry. We have been offering high-quality solutions with our innovations for over 100 years. Our portfolio includes wire enamels, insulating tapes, composites, impregnating resins and potting materials for high- and low-voltage motors, generators, and transformers, as well as protective coatings and potting materials for the protection of printed circuit boards, modules and sensors. We also offer a wide range of adhesives and materials for thermal management and printed electronics.

# EPHYMESS

EPHYMESS, your experienced and innovative partner in the world of measurement and sensor technology. For over 65 years, we have been setting standards in the development and manufacturing of precise sensor solutions for electric machines and drive technology.

Our mission? To develop customised and innovative solutions that are precisely tailored to your needs.

Our range includes a variety of high-quality temperature sensors, speed sensors, and oil level gauges. We also complement this with a wide range of accessories and peripheral devices.

Specializing in the market segments of railway technology, renewable energies, and general industrial applications, we combine technical expertise with state-of-the-art manufacturing technology and our continuous commitment to service and quality.



Fuses from the fuse expert

At ESKA, Germany's leading manufacturer of fuses of all kinds, you will find everything from fine-wire fuses, NH fuses, miniature fuses, SMD & SMT fuses, resetting fuses to thermal fuses and automotive fuses.

We offer standard designs as well as expert advice so that you can implement suitable equipment protection for your industry. Are you looking for customised protection? No problem!

Take advantage of ESKA's expertise and talk to us about your product requirements.



**HÜBERS** is one of the world's leading suppliers of machines and systems for the encapsulation of electrotechnical and electronic components.

The spectrum of HÜBERS technologies covers all process steps such as material formulation and preparation, mixing and dosing, casting, moulding, and curing. The spectrum of system sizes ranges from laboratory systems to fully automated systems for mass production with programmable logic controllers and online quality assurance.

HÜBERS is the customer's active partner from process development to commissioning and beyond: HÜBERS employees also support customers in the day-to-day operation of the systems, e.g. via the 24/7 service hotline.



**Huntsman** Advanced Materials is a leading global chemical solutions provider with a long heritage of pioneering technologically advanced epoxy, acrylic and polyurethane-based polymer products for encapsulation, adhesives, casting, and composites. Our know-how and expertise of more than 60 years allow us to develop and provide our customers with a wide range of electrical insulation and thermal management solutions, ranging from Power Generation, Transmission and Distribution to advanced E-mobility and Electronics applications.



The ISOVOLTA Group is a leading international manufacturer of electrical insulation materials, technical laminates, and composite materials.

Numerous production and sales locations in various countries on three continents rely on many years of experience in the synthesis and conversion of raw materials into highly reliable, intelligent materials. Material and technology expertise, flexibility and innovative spirit determine product development and characterise customer relationships based on partnership.

The more than 1,500 employees worldwide, including around 390 in Austria, are experts in the fields of impregnation, laminating, pressing, processing, polymer chemistry and process technology.



**Kisling** was founded in 1862 and today we are one of the world's leading manufacturers of high-quality adhesives, sealants and encapsulants for almost all industrial sectors, OEM manufacturers and specialist trade. Our product range includes high-strength structural adhesives based on (meth)acrylate and epoxy, anaerobic adhesives, instant adhesives, RTV silicones and encapsulants based on epoxy and polyurethane for a wide variety of applications. At Kisling, the customer always comes first because application-specific adhesive, sealant and encapsulant solutions are constantly being developed.



As a leading manufacturer of electrical insulation materials, composite materials and electronic materials, **Krempel** is a system partner for customers in the energy, mobility, and industry sectors. The portfolio includes electrical insulation materials for high voltage, oil transformers, dry transformers, motors and batteries in hybrid and electric motors.

Krempel is also a renowned supplier of composites, customised components and prepreg systems. Our products and solutions are used in the aerospace industry as well as in mechanical and equipment engineering, rail transport, medical and electrical engineering.

The Krempel Group has 11 locations on four continents and employs more than 1,100 people worldwide.

# polifibra folien

**polifibra Folien** is a film specialist based in Limburg an der Lahn. We manufacture film and insulating materials for use in various industrial sectors as well as in the electrical and energy sectors. Together with our customers, we develop customised solutions and offer the highest level of quality.

polifibra Folien is your reliable partner when it comes to films, laminates, caps or cores for industrial applications. Benefit from our many years of experience and our solution-orientated approach to your needs. Our most important success factors are the quality of our products and our high degree of flexibility, especially when it comes to realising individual customer requirements. The professional qualifications of our employees, our fast delivery times and the development of innovative solutions round off the profile of our company.



PUCARO is among the world's premium manufacturers of electrical insulation materials and laminates for application in transformers, electric motors and generators.

We have been in this business for a long time. The secrets of our success are: very high quality standards for all our products; continuous further development of these products; highly qualified employees and, last but not least, proximity to our customers. Their trust in our company is reflected by long-term customer loyalty, and by being appointed "preferred supplier" by many of our OEMs.

The company's headquarters are located in Roigheim, Germany. The plant apply our premium quality standards to all PUCARO products.

We have an extraordinarily broad global network of representatives, dealers and partners, who guarantee both optimal technical service on site and short delivery times.



**SEKELS** GmbH develops, manufactures, and trades technical products in the field of magnetism. With around 25 employees (almost half of whom are physicists and engineers), we currently serve over 600 customers worldwide.

We develop, design, and manufacture customised solutions for core laminations and laminated cores, magnetic shielding and shielding systems, inductive components, and magnet systems - from prototypes to series production.



**STOCKMEIER Urethanes** - your expert for polyurethane solutions! With 30+ years of experience, state-of-the-art technology and five locations worldwide, we offer customised solutions for your requirements. From elastomers and potting materials to coatings, sealants, and adhesives. Our products are used in the electrical industry for a wide range of applications, including the encapsulation of electronic components such as sensors and transformers. Our products provide long-term protection against moisture, vibrations, and other environmental influences to ensure the longevity of electronic devices.

Our certifications:

- UL 94 V-0 and UL 746 B: RTI 130° C
- UL 1446 Insulation Systems
- UL 1283 EMI Filters
- IEC 60335 Household appliances
- Glow Wire Testing
- Railway standard NF F 16-101/2

Trust in reliability and innovation with STOCKMEIER Urethanes!



It takes strong partners to shape the future. With SHWire and IsoTek, SynFlex is the leading partner for customers in the electrical industry. Together they form the SynFlex Group, themed „Common Goal – Joint Progress: The Resource of Power“. Core competencies of SynFlex are the development, manufacture and distribution of conductive and insulating materials for electrical insulation systems of electric motors, transformers and generators. SHWire is the quality market leader for flat, round and covered enamelled aluminium and copper wires in Europe. IsoTek is the specialist in transformer construction with innovative development expertise in the field of electrical insulation. The SynFlex Group pools expertise, utilizes synergies and offers customers additional value that cannot be found anywhere else in our industry.



**TMC Sensortechnik GmbH** is a leading international manufacturer of sensors and switches for temperature monitoring of electrical windings. TMC's broad product and customer portfolio ranges from miniaturised thermo-bi-metal switches for electric motors, transformers and electronic circuits to PT/PTC sensors and innovative overheating protection for the charging infrastructure of electric cars.

TMC currently employs around 90 people at two sites in Bretten/Germany and Police/Czech Republic. Over 98% of all TMC's raw materials and products come from Europe.



**VACUUMSCHMELZE (VAC)** is one of the world's most innovative developers of magnetic materials, inductive components, and other related products. With extensive application expertise, more than 100 years of experience in materials science and product development, and a global network of local sales and application engineers, VAC develops and manufactures customised solutions for a wide range of industries, including renewable energy, automotive, medical, industrial automation, installation technology and aerospace.

VAC's unique ability to design and manufacture from basic elements to finished products enables us to provide customers with optimised form factors and performance, creating best-in-class efficient solutions in an environmentally responsible manner.



See ELANTAS



**WEVO-CHEMIE** GmbH is an independent, internationally active manufacturer of customised potting solutions, adhesives and sealants based on polyurethane, epoxy, and silicone - primarily for electrical and electronic components. Wevo products protect sensitive components from chemicals, vibration, foreign bodies, dust, moisture, and high temperatures. More than 1,250 customers in over 50 countries are supplied from the headquarters near Stuttgart, Baden-Württemberg and other companies in Asia, China, and the USA.



**Wickeder** offers first-class material solutions with over 500 years of experience in materials technology. Our highly qualified team specialises in innovative metal-based material solutions, classic metal grades and hybrid materials and supports customers with tailored advice and comprehensive expertise to make their projects a success.

Unique solutions for customers and applications are characterised by creativity, speed, reliability, and efficiency in the manufacturing process and throughout the entire product life cycle. With an international network, we offer innovative materials that perfect the performance and cost-effectiveness of products. Our holistic approach combines materials, process technology and design. We work closely together to develop clad materials with optimised properties, tailored to your products, manufacturing and processing methods. Close co-operation along the entire process and value-added chain forms the foundation for your commercial success.



**Wieland** is a leading global supplier of semi-finished products made of copper and copper alloys. With a global network of more than 80 production sites, service and trading companies, the company offers a broad portfolio of products, technologies, and services. From prototypes to series production, Wieland develops solutions for the automotive, aerospace, electronics, refrigeration and air-conditioning technology and many other industries. With high-performance copper materials, Wieland drives the success of its B2B customers in future fields such as electromobility, connectivity and urbanisation. A high level of technical expertise, customer-orientated thinking and sustainability determine the company's actions and have been the basis for its success since 1820.

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Aumann Espelkamp GmbH	<a href="http://www.aumann.com">www.aumann.com</a>
Axalta Coating Systems Germany GmbH & Co KG	<a href="https://www.axalta.com/electricalinsulation_global/en_US.html">https://www.axalta.com/electricalinsulation_global/en_US.html</a>
CMC Klebtechnik GmbH	<a href="http://www.cmc.de">www.cmc.de</a>
DEMAK Germany GmbH	<a href="http://www.demakgroup.com">www.demakgroup.com</a>
ELANTAS Europe GmbH	<a href="http://www.elantas.com/beck">www.elantas.com/beck</a>
EPHY-MESS Company for electro-physical measuring instruments mbH	<a href="http://www.ephy-mess.de">www.ephy-mess.de</a>
ESKA ERICH SCHWEIZER GMBH	<a href="http://www.eska-fuses.de">www.eska-fuses.de</a>
HÜBERS Verfahrenstechnik Maschinenbau GmbH	<a href="http://www.huebers.de">www.huebers.de</a>
Huntsman Advanced Materials (Switzerland) GmbH	<a href="http://www.huntsman.com">www.huntsman.com</a>
Isovolta AG	<a href="http://www.isovolta.com">www.isovolta.com</a>
Kisling (Germany) GmbH	<a href="http://www.kisling.com">www.kisling.com</a>
KREMPEL GmbH	<a href="http://www.krempel.com">www.krempel.com</a>
Polifibra Folien Handelsgesellschaft mbH	<a href="http://www.polifibra-group.de">www.polifibra-group.de</a>
Pucaro Elektro-Isolierstoffe GmbH	<a href="http://www.pucaro.de">www.pucaro.de</a>
Sekels GmbH	<a href="http://www.sekels.de">www.sekels.de</a>
SIKA Germany GmbH	<a href="http://www.sikaaxon.de">www.sikaaxon.de</a>
Stockmeier Urethanes GmbH & Co KG	<a href="http://www.stockmeier-urethanes.com">www.stockmeier-urethanes.com</a>
SynFlex Elektro GmbH	<a href="http://www.synflex.com">www.synflex.com</a>
TMC Sensortechnik GmbH	<a href="http://www.tmc-sensortechnik.de">www.tmc-sensortechnik.de</a>
VACUUMSCHMELZE GmbH & Co KG	<a href="http://www.vacuumschmelze.com">www.vacuumschmelze.com</a>
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