FOREIGN MARKET ENTRY PROGRAMME (MEP)

Japanese-German Business Development Joint Project Lightweight Technologies

2026-2027



The Market Entry Programme for Small and Medium-sized Enterprises is a funding programme of the:

Federal Ministry for Economic Affairs and Energy

MITTELSTAND GLOBAL FOREIGN MARKET ENTRY PROGRAMME

The Market Entry Programme commissioned by the Federal Ministry for Economic Affairs and Energy is implemented by:

GTAI GERMANY TRADE & INVEST

sBs systems for business solutions

COMPOSITES UNITED

ICC Innovative Composite Center

San-Ten Consulting

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Federal Ministry
for Economic Affairs
and Energy

Message of greetings

A warm welcome to all participants and partners of this German-Japanese lightweighting cooperation project. Through this project, the German Federal Ministry for Economic Affairs and Energy (BMWE) supports small and medium-sized enterprises in exploring business opportunities in Japan and establishing valuable contacts. As part of the Ministry's Market Entry Programme for SMEs, it combines practical market insights with direct exchange and ongoing support — helping companies lay the foundations for lasting business partnerships.

Entering a new market requires reliable information, suitable partners and an understanding of local business practices. For SMEs in particular, the resources needed can present a considerable challenge. The Market Entry Programme provides targeted support through market intelligence, expert advice and opportunities to meet potential customers and cooperation partners. It helps companies make informed decisions and develop their international business.

The lightweighting cooperation project with Japan brings these elements together in a coordinated programme. Preparation, individual guidance and delegation visits are complemented by networking and continued exchange. This sustained approach allows participating companies to build on initial contacts, deepen their understanding of the market and develop concrete opportunities for cooperation.

Mutual exchange is central to the project. Delegation visits to Japan and Germany, meetings with companies and institutions, site visits and expert discussions offer first-hand insights into market requirements and technological capabilities. They enable participants to identify shared interests and explore how their expertise can contribute to joint solutions. By maintaining this dialogue throughout the project, partners can build the understanding and trust essential for successful long-term cooperation. Lightweighting provides a promising field for this cooperation. By combining advanced materials, intelligent design and innovative manufacturing processes, it helps industry improve performance while using less material and energy. Germany and Japan share a strong commitment to engineering excellence, quality and innovation. Their companies offer complementary expertise in areas ranging from composites and automated production to joining technologies and recycling.

This brochure introduces the participating German companies and their capabilities. I warmly invite our Japanese partners to exchange ideas with them, discuss their needs and explore opportunities for mutually beneficial cooperation. Through the Market Entry Programme, we aim to help turn these encounters into enduring business relationships.

My sincere thanks go to our partners in Japan and Germany, the organisers and all those supporting this project. I wish all participants productive discussions, valuable new contacts and every success in their future cooperation.

Dr. Bastian Kern
Head of Division Raw Materials Fund and Lightweight Construction
Federal Ministry for Economic Affairs and Energy

Message of greetings

Dear Partners in Japan, distinguished Guests, and Friends of Lightweight Innovation,

On behalf of **Composites United e. V. (CU)**, it is my pleasure to welcome you to the **Japanese-German joint-project for the sustainable development of business activities between Japan and Germany in the field of lightweighting technologies**. Over the course of 1 to 2 years, eleven leading German companies will present solutions in high-performance composites, automation, advanced materials, and R&D.

CU, representing over 350 members across the German-speaking DACH region in Europe, has a long tradition of cooperation with Japan. Due to its high degree of innovation and technical maturity in the field of composite materials, the Japanese market is very interesting and attractive for CU members. In the early 2010s, CU signed **MoUs with the Innovative Composite Center (ICC)** and the **National Composite Center (NCC) in Japan**, building a strong foundation for technical and industrial exchange. Together with the ICC, CU also carried out the **InterSpin internationalization project** to initiate R&D projects between German and Japanese players, further strengthening links between our networks and paving the way for joint innovation. The introduction of a CU-ICC newsletter in 2023 as well as this business initiation project are the next steps of the successful partnership. These initiatives underline our clear commitment to long-term collaboration with Japanese partners.

The German delegation showcases expertise in automation and process engineering, composite core materials, lightweight profiles, nonwovens, and testing solutions. Their objective is clear: to establish new partnerships, to transfer and adapt innovative solutions to Japanese requirements, and to explore opportunities for **joint business development** in sectors such as mobility, energy, and construction.

We warmly invite you – companies, universities, institutes, and government organizations – to participate in the presentations, B2B meetings, and networking sessions throughout the year. By combining Germany's strengths in engineering and system integration with Japan's leadership in fibre and material technologies, we can jointly create **sustainable, high-value solutions** for global markets targeting a climate neutral industry of the future.

We look forward to engaging with you and building successful collaborations.
With best regards,

Dr. Tjark von Reden
on behalf of **Composites United e. V.**

Introduction

Japanese-German Business Development Joint-Project
Japan 2026-27

lightweight technologies

SBS systems for business solutions GmbH is delighted to welcome you to the **Japanese-German Joint Project for Lightweight Technologies 2026–2027**. With the support of the **German Federal Ministry for Economic Affairs and Energy (BMWE)**, and together with **Composites United e.V., the Innovative Composite Center (ICC)** and **San-Ten Consulting**, the project aims to support the development of business relations between Japan and Germany in the field of lightweight technologies.

Eleven selected German companies from the lightweight sector are taking part, with the shared goal of expanding their business activities in the Japanese market and establishing long-term partnerships. Their expertise covers lightweight materials, components, technical textiles and production technologies as well as testing equipment for composites, for industrial applications such as aerospace and automotive. For Japanese companies, this offers access to complementary technologies and know-how, as well as opportunities for cooperation, supply relationships and joint development.

To establish sustainable business relationships, the first programme year is structured around three main elements: a market exploration trip to Japan, an information trip to Germany for Japanese companies, and a business delegation trip to Japan. Within these modules, participants have the opportunity to take part in individually arranged B2B meetings with potential partners, company and site visits, and presentation events, as well as further occasions to make contact with Japanese companies and institutions.

Through the various elements of the programme, the project supports the development of bilateral business cooperation between German and Japanese companies and creates a solid basis for mutual growth beyond the project period.

German Companies

A composites
light stable efficient

EJOT®

herone

BROETJE AUTOMATION

KROENERT

Coroplast tape

Polyvlies Group

CTC we are composites
an AIRBUS company

Textechno
textile testing technology

Ensinger

vombaur
pioneering tech tex

Carried out by:

sBs systems for business solutions

germantech.org

In collaboration with:

COMPOSITES UNITED

ICC Innovative Composite Center

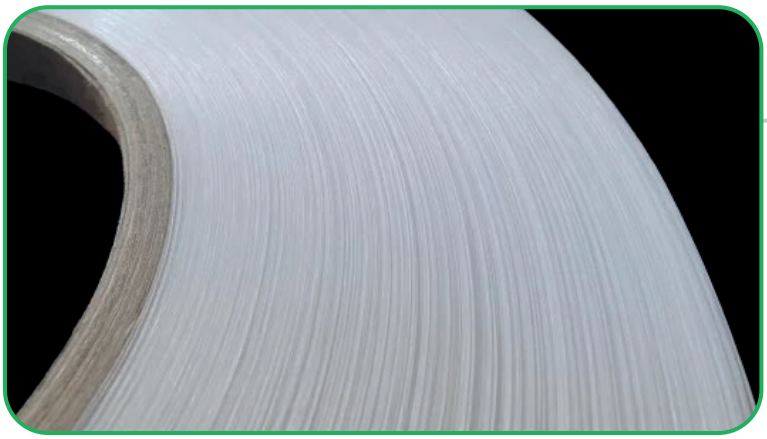
San-Ten Consulting

A composites

light stable efficient



Our Company
Innovative and Reliable



Our Product
Tailored UD Tapes



Our Promise
Quality and Individuality

SUMMARY

Specialists in the production of unidirectional thermoplastic prepregs, known as UD tapes, in small and large series.

MADE IN Germany

WWW.APLUS-COMPOSITES.DE/EN/

A+ Composites GmbH

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Germany
www.aplus-composites.de/en/

Contact person:
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m.brzeski@aplus-composites.de
Phone: +49 6333 9999512
Languages: German, English

COMPANY PROFILE

Welcome to A+ Composites – Your partner for custom UD tapes! Our company, located in Weselberg, RhinelandPalatinate, specializes in the production of unidirectional thermoplastic prepregs, known as UD tapes, in small and large series. Behind our groundbreaking products is a dynamic team of experienced engineers and creative minds committed to continuous development to exceed the expectations of our valued customers.

Founded in 2015, A+ Composites stands out for its outstanding innovation. Our ongoing research projects and the application of patented technologies underscore our commitment to continuous improvement. These efforts have been recognized with several innovation awards, including the "German Innovation Award 2017" and the "Innovation Award RhinelandPalatinate 2019," affirming our pursuit of excellence.

PRODUCTS / SERVICES

A+ Composites offers extensive flexibility in UD tape manufacturing, with experience in producing more than 250 different variants. This breadth of expertise allows us to tailor material combinations and tape dimensions to the specific requirements of each application.

Our material portfolio includes carbon, glass, and aramid fibers, combined with thermoplastic matrices such as PE, PP, PA6, PPS, and low-melt polyaryletherketone (LM PAEK), amongothers. In addition to selecting the fiber and matrix materials, we can adjust the fiber-to-polymer ratio, tape thickness, width, and other application-specific characteristics.

Through close technical consultation, we work with our customers to understand their specifications and identify suitable material configurations. We place particular importance on clearly defined requirements, careful coordination and continuous improvement. We build long-term technical partnerships and develop custom UD tape solutions together with our customers.

REFERENCES AND EXPORT ACTIVITIES

International partners across the materials and composite manufacturing value chain.

Selected customers:

- Victrex: custom UD tapes based on VICTREX LMPAEK™
- Schunk: dedicated tape materials and automated winding technology
- SABIC: thermoplastic matrix materials and application development
- Zoltek, a member of the Toray Group: use of industrial carbon fibers in high-performance thermoplastic tapes.

TARGET GROUP

Our custom UD tapes are designed for customers in aerospace, sports equipment, and consumer electronics. These industries share a need for lightweight materials that can be tailored to specific mechanical, dimensional, and processing requirements.

COMPETITIVE ADVANTAGES

Our commitment at A+ Composites goes beyond production. Through our close collaboration with customers and a quality management system certified to DIN 9001, we guarantee not only the highest quality standards but also individual adaptation to the needs of each customer. With us, you experience a unique symbiosis of quality and individuality.

IDEAL BUSINESS PARTNERS

We seek business partners interested in strategic cooperation and long-term relationships across development, procurement, and production. Our ideal partners value close technical collaboration, clear communication, and a shared commitment to quality and continuous improvement.

Together, we aim to develop tailored UD tape solutions, coordinate material requirements, and support the transition from development to series product.

JOINT PROJECT | LIGHTWEIGHT TECHNOLOGIES | JAPAN

Carried out by:

In collaboration with:



STAXX BOX

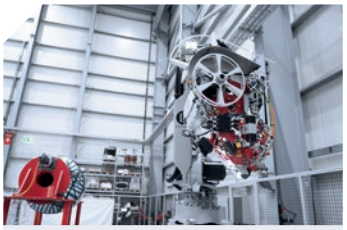
Application

This compact, flexible and easy to use automated fiber placement machine is ideally suited for the automated production of small composite parts at low cost.

- Small Parts
- Material Layup Tests
- R&T

Compact Work Cell Configuration





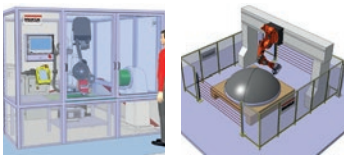
STAXX ONE

Application

The STAXX ONE single tow end-effector is a highly flexible small and lightweight automated fiber placement end-effector. With its mass of about 60 kg it can be mounted on a variety of standard industrial robots.

- Complex Parts
- Curved Structures
- Table Configurations possible

Flexible Work Cell Configuration





STAXX COMPACT

Application

Designed for high volume industrial production the STAXX Compact is ideally suited for the mass production of small composite parts. It achieves high workpiece quality while minimizing material waste.

- Serial production of small parts
- No limits in Fiber Orientation
- Easy Material Reloading

Enclosed Airconditioned Cell



WWW.BROETJE-AUTOMATION.COM

Equipping the Factory of the Future

SUMMARY

Broetje-Automation is the world's leading expert for automated production processes in the Aerospace & Wind industry.

MADE IN Germany



STAXX ONE PORTABLE

Application

The portable STAXX ONE cell features a fully 3D-capable AFP robot in a self-contained unit. With an integrated rotary table or tailstock, it supports a wide range of applications.

- Complex Parts
- Prototyping
- R&T Applications

Compact Work Cell Configuration





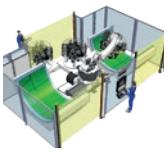
STAXX FLEX

Application

The system is ideal for automated fiber placement in serial production. It supports common materials such as PrePreg and DryFiber up to 50K per tow.

- Complex 2D and 3D Parts
- Easy Maintenance
- Automatic Changing Device

Flexible Work Cell Configuration





Broetje Automation GmbH

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Phone: +49 160 96352473
Languages: German, English

COMPANY PROFILE

Based on more than 40 years of experience Broetje-Automation strives to be the best companion for automated production solutions. We build highest standard technologies to provide our customers with a tailormade solution fit to their individual cases. Our strongsuit is the individual integration of various processes into highly automated machine systems to make your shopfloor more efficient, ergonomic and flexible. For our customers we naturally enhance the production and quality of simple and complex structures and therefore help to implement complex technologies and connected digital production possibilities for the Factory of the Future.

PRODUCTS / SERVICES

Broetje-Automation is a global specialist in automated assembly systems, with operations across 23 sites. BA Japan has served the local market for many years, maintaining and supporting the delivery of advanced assembly technology and turnkey production lines; its team ensures smooth operation for customers.

The subsidiary offers Industrial Services, Training, support for Retrofits and Upgrades & Modifications and supports the full portfolio, including turnkey panel lines such as for MHI with localized service staff.

Broetje-Automation´s digital solutions like SOUL OLPS support virtual machine simulation including the Digital Twin, enabling the Factory of the Future vision. This combination of local expertise, cutting edge technology and global support makes Broetje-Automation a reliable partner for Japan's aerospace industry.

REFERENCES AND EXPORT ACTIVITIES

Broetje-Automation is part of almost every civil aircraft program worldwide:

E175-190, A220, A320 Series, B737(max), MC21, Suchoi Super Jet, C919, C929, A330, A350, B787, B777, B747, A380, A400M.

TARGET GROUP

Composite part manufacturers (AFP, CFRP), Wind Power Manufacturers, Aerospace Industry, Aerospace Engine Manufacturer and MRO´s.

COMPETITIVE ADVANTAGES

We provide comprehensive Machine, Factory and Process know-how from a Single Source:

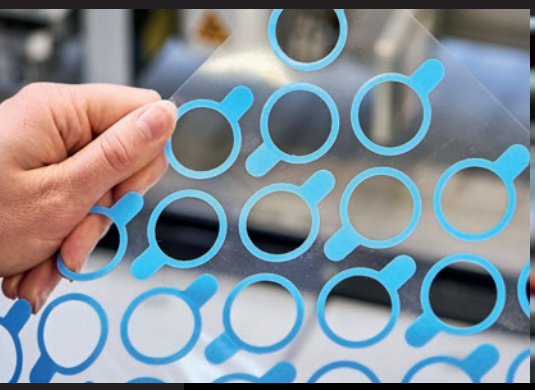
- Automated Equipment ready for Industry 4.0
- End-to-End Digitalized factory using the Digital Twin
- The manufacturing processes you need - Tailormade and digitalized!
- Turnkey Factory Integration from Planning to Operation
- Lifecycle Support. We care about your equipment and keep it up-to date the entire lifecycle

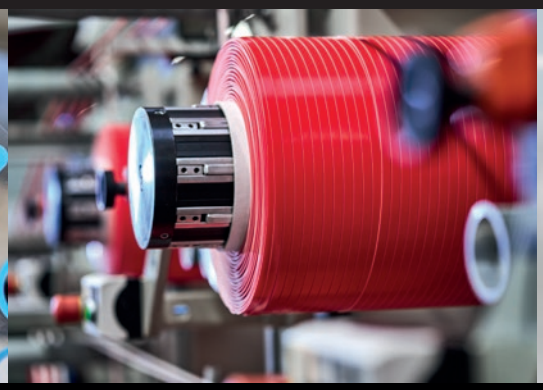
IDEAL BUSINESS PARTNERS

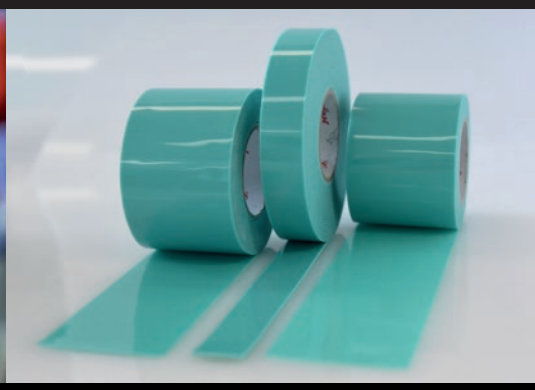
Broetje-Automation's ideal partners include Aerospace OEM´s, Tier 1 suppliers of major aerostructures, wind blade manufacturers, MRO´s maintaining and overhauling aircraft engines, final assembly providers for engines, and CFRP component manufacturers for Aerospace structures.

Coroplast tape











SUMMARY

Coroplast Tape provides high-performance adhesive tape solutions for durable bonding and lightweight design applications.

MADE IN Germany

WWW.COROPLAST-TAPE.COM

Coroplast Fritz Müller GmbH & Co. KG

Wittener Straße 271
42279 Wuppertal
Germany
www.coroplast-tape.com

Contact person:
Dr. Tim Krappitz - Market Manager
tim.krappitz@coroplast-tape.com
Phone: +49 2022681760
Languages: German, English

COMPANY PROFILE

Coroplast Tape is a subsidiary brand of the Coroplast Group. As drivers of innovation and in close cooperation with our customers, we are continually spearheading technical development on a worldwide basis. At our locations in Europe, North America and Asia, we develop and produce adhesive tapes with optimum standards. We offer superior adhesive solutions for a wide range of applications and support customers with tailored solutions for demanding requirements.

PRODUCTS / SERVICES

Coroplast Tape offers an extensive product range of high-quality technical self-adhesive tapes for demanding industrial and automotive applications. The portfolio includes single-sided and double-sided adhesive tapes as well as insulating tapes with diverse carrier materials and adhesive systems. Available in a wide range of widths and thicknesses, Coroplast solutions support the joining and bonding of numerous surfaces. Double-sided adhesive tapes provide particularly durable bonds and are used for reliable joining applications across a variety of industries.

REFERENCES AND EXPORT ACTIVITIES

As part of the globally active Coroplast Group, Coroplast Tape develops and produces adhesive tape solutions at locations in Europe, North America and Asia. We work in close cooperation with customers worldwide and have many years of experience working with leading companies in the automotive and industrial sectors.

TARGET GROUP

Automotive OEMs and suppliers • Manufacturers of lightweight components and assemblies • Industrial manufacturers • Building and construction companies • Manufacturers of composite components • Companies seeking innovative bonding solutions for demanding industrial applications.

COMPETITIVE ADVANTAGES

- Nearly 100 years of experience in adhesive tape solutions
- Global development and production footprint in Europe, North America and Asia
- Extensive portfolio of single-sided and double-sided adhesive tapes
- Proven expertise in durable bonding applications
- Customer-specific adhesive solutions for demanding requirements
- Close cooperation with customers in product development and application engineering

IDEAL BUSINESS PARTNERS

Coroplast Tape seeks partnerships with manufacturers, suppliers and distributors looking for reliable adhesive solutions for bonding, joining and lightweight design applications. Particular interest lies in companies active in automotive, aerospace, advanced mobility, composite materials, wind energy, construction and industrial manufacturing.

we are composites

an AIRBUS company







SUMMARY

The Composite Technology Center / CTC GmbH (An AIRBUS Company) is a leading lightweight technology and innovation center in Europe, especially for the aerospace sector.

MADE IN Germany

CTC-COMPOSITES.COM

we are composites

an AIRBUS company

CTC GmbH Stade

Airbus-Strasse 1
21684 Stade
Germany
ctc-composites.com

Contact person:
Mr. Marc Fette - CEO
marc.fette@airbus.com
Phone: +49 4141938 570
Languages: German, English

COMPANY PROFILE

The Composite Technology Center / CTC GmbH, based in Stade, is a 100% subsidiary of Airbus. At its core, the CTC develops innovative technologies for the industrial and automated processing of composites, especially CFRP. The focus is thus on application-oriented research for primary aircraft structures. However, CTC also develops technologies and holistic solutions for other industries within the scope of development and consulting projects. The focus is always on the satisfaction of our customers through the realization of the highest quality in compliance with aviation requirements.

PRODUCTS / SERVICES

The core competencies of the CTC are distributed over the four business fields “Innovation”, “Solution”, “Production” & “Education” and lie particularly in the areas:

- Composite product design and analysis
- Research and development projects for fibre composite and lightweight technologies
- Development, introduction and operation of highly automated production systems
- Consulting and series support for composite production
- Process recording, analysis and optimization
- Production of single and serial parts in aviation quality
- Training & Education in the field of composites and related technologies.

REFERENCES AND EXPORT ACTIVITIES

CTC is active worldwide in the field of lightweight solutions and technologies, especially with development services.

TARGET GROUP

CTC’s target group are OEM and supplier of the mobility and industrial sector which are interested in holistic, smart and sustainable lightweight solutions as well as technologies.

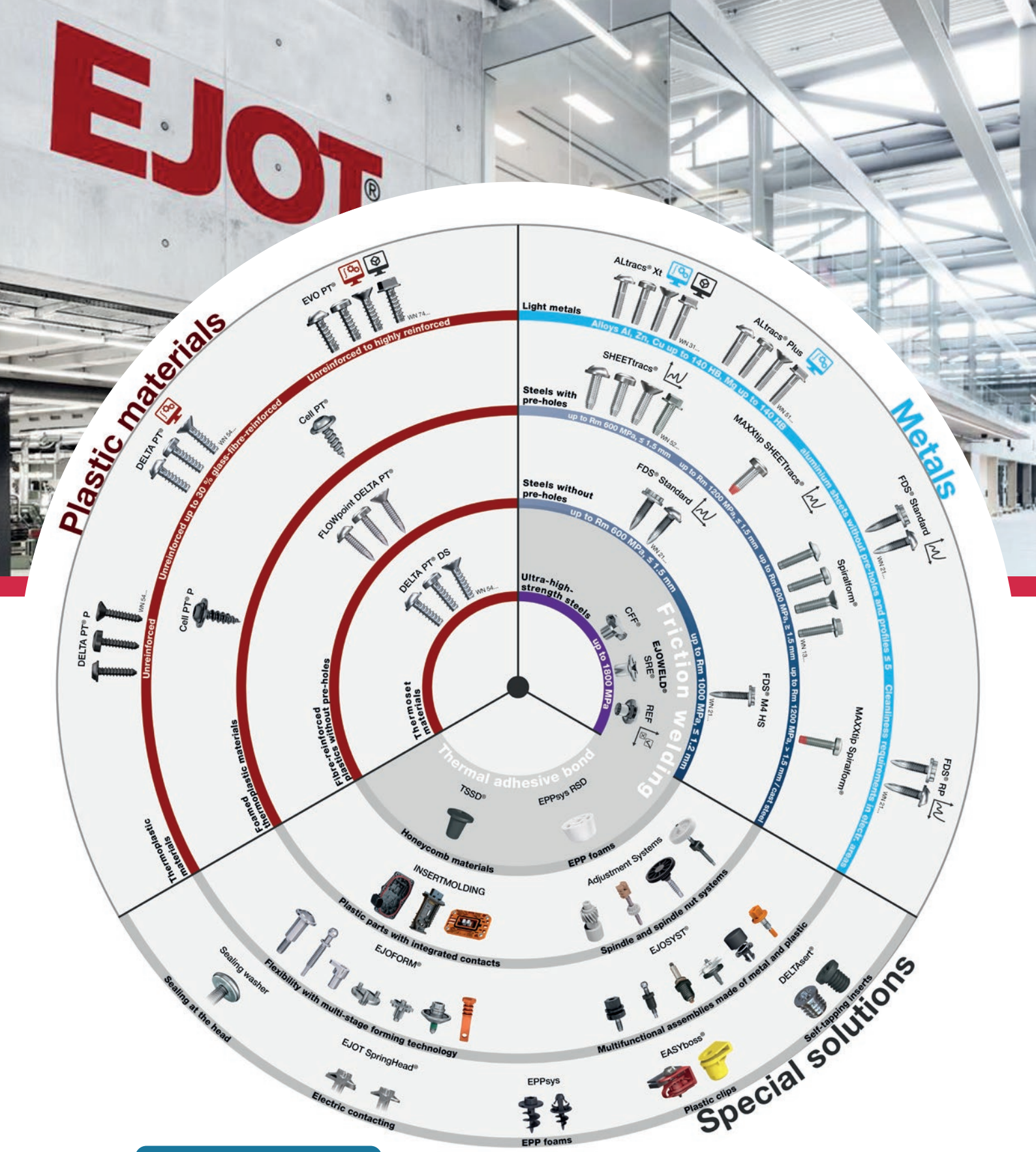
COMPETITIVE ADVANTAGES

CTC is a leading lightweight technology and innovation center in Europe, especially for the aerospace sector.

IDEAL BUSINESS PARTNERS

- OEM
- ODM
- Supplier
- Engineering service provider
- Companies with a need for innovation
- Companies with a need for professional training

With a focus on lightweight technologies and composites in aerospace, automotive, transportation, railway, shipbuilding, wind power, machinery and plant engineering sector.



SUMMARY

Specialized in advanced fastening and forming technology with a wide range of innovative fastening elements.

MADE IN Germany

WWW.EJOT.COM

EJOT SE & Co. KG

Im Herrengarten 1
57319 Bad Berleburg
Germany
www.ejot.com

Contact person:
Mr. Sebastian Schrodt - Director EJOWELD
sschrodt@ejot.com
Mobile: +49 163 5290155
Languages: German, English

COMPANY PROFILE

EJOT is a medium-sized and family-run group of companies spread over five continents. Over 4,300 employees are working in 49 countries to provide high quality of fastening solutions and services to our customers. EJOT was founded in Germany in 1922 and is providing since 100 years innovative fastening solutions and products for clients in industry and construction business. The EJOT Marketing Unit Industry supplies, beside the automotive industry, products for consumer electronics and housewares. The main part of the 773 million EURO turn-over is made in Europe, Asia, and America. Production plants all over the world producing over 36,000 different products. Sustainability is not only a word for us, we're living it.

REFERENCES AND EXPORT ACTIVITIES

Global operating car makers like Audi, Porsche, JLR, Hyundai, Stellantis, Ford and others using products of EJOT market unit Industry. But also, fastenings systems and elements for buildings are used in many countries of the world. So, we try to provide our products from local to local by one of our 31 branches worldwide. That results in an export of over 70%.

TARGET GROUP

All customers in automotive or non-automotive industry as well as construction who need high quality and individual fastenings and joining solutions. OEM as well as Tier's, trading companies and distributors are welcome.

PRODUCTS / SERVICES

The Market Unit Industry offers a wide range of innovative fastening elements, above all self-tapping screws for metals and plastic materials, multifunctional cold-formed components, individual assembly groups made of metal and synthetic materials, technical plastic parts as well as special fastening solutions. EJOWELD is a unique and innovative joining system to bring lightweight materials and high-strength steels together. EJOT APPLITEC (derived from application and technology) is a global service network and provides solutions and support for our clients. Qualified application engineers working closely with engineering designers and managers to provide them with the highest level of technical support. The aim is to achieve a solution that can reduce assembly components, increases strength of join with greater cost-efficiency or find individual solutions for client's application.

COMPETITIVE ADVANTAGES

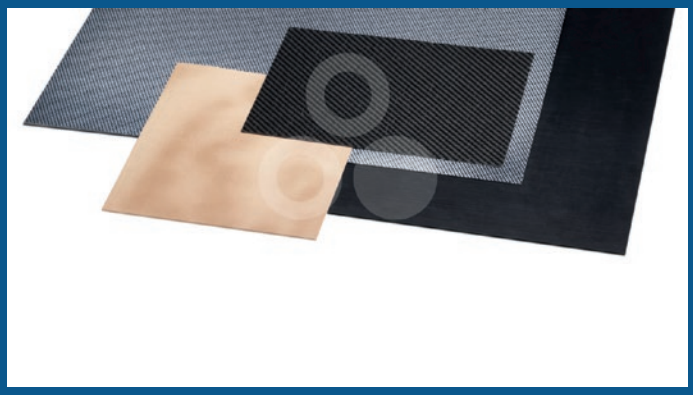
We don't sell only screws; we sell fastening solutions. Together with clients and partners, we develop individual joining solutions from the initial contact over the serial production in one of our global production sites to a full service. We are creating a global network of knowledge and experiences, where our customers can benefit from.

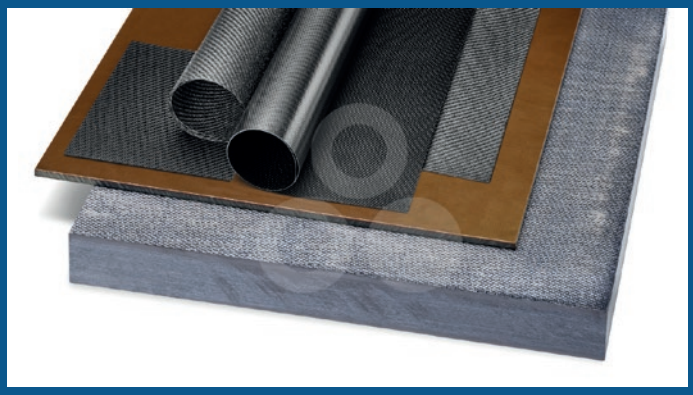
IDEAL BUSINESS PARTNERS

We are open to all business partners and looking forward to a close cooperation basing on a partnership. We are offering high-quality, innovation and sustainability, and we want to work with our potential partners on this base. To involve EJOT in an early stage of development will bring the most effective support for our partners.

Ensinger









SUMMARY

Ensinger offers high-performance thermoplastic composites and end-to-end support from material selection to prototype and series production.

WWW.ENSINGERPLASTICS.COM

Ensinger GmbH

Rudolf-Diesel-Straße 8
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Germany
www.ensingerplastics.com

Contact person:
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International Business Development Manager
Daniel.Grauer@ensingerplastics.com
Phone: +49 171 8414506
Languages: German, English

COMPANY PROFILE

The Ensinger Group is engaged in the development, manufacture and sale of compounds, semi-finished materials, composites, technical parts and profiles made of engineering and high-performance plastics. To process the thermoplastic polymers, Ensinger uses a wide range of production techniques, such as extrusion, machining, injection moulding, casting, sintering and pressing. With a total of more than 2,500 employees at over 30 locations, the family-owned enterprise is represented worldwide in all major industrial regions with manufacturing facilities or sales offices.

PRODUCTS / SERVICES

At Ensinger, we cover the entire process chain in-house – from raw material granulates, to fully consolidated thermoplastic composite materials. Our portfolio ranges from polymer powders, semipregs, prepregs, organosheets, compression moulded composite plates to customer development projects that are realised with a wide variety of material combinations.

Years of experience in the processing of thermoplastic composites allow Ensinger to provide a tailored technical and economical solution for specific customer projects across many industries.

REFERENCES AND EXPORT ACTIVITIES

Ensinger is a global company with a strong international presence, operating in 33 locations worldwide. In addition to our global headquarters, we have established a legal entity in Japan, demonstrating our commitment to expanding our business into new markets.

TARGET GROUP

Automotive, Aerospace. Semicon, Humanoid robots , S&P, General Industries.

COMPETITIVE ADVANTAGES

State of the art equipment and a wide selection of textile and polymer combination makes Ensinger‘s range of products unique.

Through our in-house process development and fast technology transfer, we are able to bring innovative materials such as flame-retardant polycarbonate matrices, bio-based polymers, high-quality natural fibre fabrics and others to the market.

A unique and highly felxible production process contribute to short lead times and low MOQs.

IDEAL BUSINESS PARTNERS

OEMs, TIER1s, moulders, design/engineering offices.

herone

Thermoplastic composite profiles with integral functionality



ultralight

sustainable

cost-effective

SUMMARY

Invention and production of ultralight thermoplastic composite profiles to go beyond limits towards a cleaner future and a better life.

MADE IN Germany

WWW.HERONE.DE

herone GmbH

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Contact person:
Mr. Daniel Barfuss - Managing partner
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Phone: +49 176-61535472
Languages: German, English

COMPANY PROFILE

herone – innovate composites for sustainable living. We develop and produce ultralight thermoplastic composite profiles to enable to go beyond limits. With struts, shafts, and pipes we focus on the next generation lightweight solutions to transfer loads, movements, and fluids across industry sectors. To do so, we are committed to the highest quality standards and are EN 9100 certified.

The technological core is our herone technology. It combines automated preforming with efficient press molding to scale production and provide cost-effective solutions to our customers. By using recyclable and recycled thermoplastic material, we explore new ways to close the material cycle for high performance products.

REFERENCES AND EXPORT ACTIVITIES

- Aviation: Airbus, Airbus Helicopters, Boeing, Collins Aerospace, SAFRAN, lilium, Rolls Royce, Adel Wiggins, Premium Aerotec, SFS intec
- Space: MT Aerospace, Ariane Group
- Automotiv: BMW, BMW M, Cikoni, Oehlins
- Industries: FFT Automation GmbH, KEBA Automation, Stöhr Armaturen, Victrex
- Sports: Wilson, Head, tune, DT Swiss
- medical: Invibio

TARGET GROUP

OEMs and Tier-1/2 in the field of aerospace, automotive, medicine, sports and industry sector.

PRODUCTS / SERVICES

Development and production of cost-effective ultralight composite profiles with tailored performance from recyclable composites.

To meet the demanding requirements of our customers across industries we are specialized in the high-performance thermoplastics at the top of the polymer pyramid (PEEK, PPS, PPA). With struts, shafts, and pipes we focus on profile shaped parts to transfer loads, movements and fluids for the next generation mobility and industry applications. We take the recyclability advantage of the thermoplastic material to explore new ways to close the material cycle towards more sustainable parts. We offer you a synergetic partnership form the definition of requirements through product development to the serial production.

COMPETITIVE ADVANTAGES

- Ultra light – we use the thermoplastic advantage with a simplified design to provide the highest lightweight potential
- tailored functionality – we use our expertise & the TP-advantage to tailor the part functionality to your individual needs.
- cost-effective parts – simplified and integrated functionality + automation for the most cost-effective solution
- sustainable – our products save resources & are fully recyclable

IDEAL BUSINESS PARTNERS

OEMs and Tier-1/2 in the field of aerospace, automotive, medicine, sports and industry sector.

KROENERT



YOUR MACHINE PROVIDER, FOR PREPREG PRODUCTION

SUMMARY

Founded in 1903, KROENERT is one of the world's leading developers and manufacturers of turnkey coating and laminating lines.

MADE IN Germany

WWW.KROENERT.DE

KROENERT GmbH & Co KG

Schützenstrasse 105
22761 Hamburg
Germany
www.kroenert.de

Contact person:
Ms Andrea Glawe - Regional Sales Director Asia
andrea.glawe@kroenert.de
Phone: +49 1732633272
Languages: German, English

COMPANY PROFILE

KROENERT manufactures innovative, reliable coating and laminating solutions for web-like materials such as paper, foil, film, cardboard and textile products, for example glass or carvon fiber structures. The product range includes customized production and laboratory lines. We offer high-performance lines with web widths of up to 3,300 mm, coating thicknesses of more than 1 mm to a minimum of 100 nanometres and processing speeds of up to 1,600 m/min. Over the decades, we have built up state-of-the-art research and development capacities at KROENERT. In our Technology Centre, we develop innovative solutions together with our customers, we test and optimise – until we achieve the perfect result. Our experts use the Technology Centre for product development as well as for defining new engineering processes.

PRODUCTS / SERVICES

KROENERT offers complete coating and laminating solutions for the composites sector. These include customer-specific lines for the production of resin films and impregnation for the prepreg production of fiber construction materials.

The EPCO machine concept is our specialist for the production of prepregs.

Prepregs are manufactured in two steps – resin film production and subsequent impregnation. For mass production these steps are separated, as the resin film is produced at a higher speed than impregnation can take place.

The resin film produced in the first process step is stored under refrigeration. Another machine is used to transfer this resin film to the textile fibers to be impregnated. As a rule, one resin film production line is sufficient to meet the capacity for three impregnation machines.

Applications of customers using KROENERT lines are in the aviation industry, but also in the manufacture of hydrogen tanks and wind turbines.

REFERENCES AND EXPORT ACTIVITIES

KROENERT has been serving the market for composite applications since 1950 and can draw on extensive experience with more than 50 machines delivered worldwide.

KROENERT is a certified supplier to the aircraft and automotive industry (partners are e.g. suppliers to Airbus & Boeing). KROENERT also supplies all leading carbon fiber suppliers which offer prepregs as semi-finished products.

TARGET GROUP

Our customers are manufacturers of carbon fiber directly, but also suppliers, who produce prepregs for lightweight construction applications on our lines and supply them to aviation companies, automotive manufacturers and manufacturers of wind turbines and hydrogen tanks.

COMPETITIVE ADVANTAGES

KROENERT lines for resin film coating as well as carbon fiber impregnation offer the highest precision in temperature control, coating accuracy, running speed and substrate tension.

The developed technology for grinding the heated rollers for coating as well as for calendering at process temperature results in highest running accuracy at the most used temperature in the application.

IDEAL BUSINESS PARTNERS

Suppliers of carbon fibers, as well as suppliers for the aerospace industry who use prepreg processes as well as other users for lightweight construction.

Polyvlies Group



Nonwovens for Innovations



SUMMARY

Development and Production of technical nonwovens for technical application like fiber-reinforced composites.

MADE IN Germany

WWW.POLYVLIES.DE

Polyvlies Group

POLYVLIES – Franz Beyer – GmbH

Rodder Straße 52
48477 Hörstel-Bevergern
Germany
www.polyvlies.de

Contact person:
Mr. Gunnar Beyer - CEO
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Phone: +49 5459 93100
Languages: German, English

COMPANY PROFILE

Founded in 1850, the Polyvlies Group today has around 500 employees at 5 locations worldwide. In addition to the headquarter in the north west of Germany, the company has facilities in Eastern Germany, France, Slovakia and in North Carolina, USA. Polyvlies develops, produces and finishes technical nonwovens made out of synthetic, natural and/or mineral fibers. That offers a vast number of variations and processing possibilities. Because of incorporating the most modern technology Polyvlies is capable of producing technical textiles with a maximum working width of 7.00 meters and weights from 40 to 4 000 g/m².

PRODUCTS / SERVICES

We offer a wide variety of technical nonwovens from a multitude of different fibers. From synthetic fibers like polypropylene, polyester or polyamid to mineral fibers like glass as well as natural fibers like hemp, kenaf and flax. We are capable of blending these fibers to engineer the perfect solution for your needs.

Our products are used in the following areas, among others:

- automotive interior parts like door trim, headliner
- automotive exterior parts like underbody shields or wheel arch liner
- fiber reinforced composites
- geotextiles
- construction industry
- covering and protective nonwovens
- sound insulation
- home textiles

REFERENCES AND EXPORT ACTIVITIES

Polyvlies delivers through various Tier1 supplier to OEMs like Toyota, Lexus, Tesla, GM, Volvo, VW, Porsche, Audi, Škoda, BMW and Mercedes.

TARGET GROUP

OEM and TIER1 automotive, Construction industry, Hometextiles, Greenhousing and many more.

COMPETITIVE ADVANTAGES

Discover our customized and individual product development – perfectly tailored to the unique requirements of our customers. We create innovative solutions that meet your exact needs. In our technical center, we carry out our own basic development work, in which all materials and downstream manufacturing processes for our products – in particular for fiber composite technology – are sustainably researched.

IDEAL BUSINESS PARTNERS

OEM and TIER1 automotive, Construction industry, Hometextiles, Greenhousing and many more.

Textechno
textile testing technology


COMPOSITES


MAN-MADE FIBRES


FILAMENT YARNS


RECYCLATES

Your reliable Partner for Quality Improvement



FIMAMIX

FIMATEST
Fibre Matrix Adhesion

SUMMARY

Development and manufacturing of innovative, high-quality testing equipment for composite materials, reinforcement + synthetic fibres/ yarns.

MADE IN Germany

WWW.TEXTECHNO.COM

Textechno Herbert Stein GmbH & Co. KG

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Germany
www.textechno.com

Contact person:
Dr. Stefan Fliescher - General Manager
s.fliescher@textechno.com
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Languages: German, English

COMPANY PROFILE

Founded in 1949, Textechno has more than 75 years of experience distinguished by continuous innovation and numerous patents. The long-established family-owned company remains privately held, combining extensive industry knowledge with strong technological expertise and a clear commitment to innovation.

Since 2010, we have had a strong focus on composite materials and the growing requirements of lightweight construction. Here we developed and successfully introduced innovative testing systems for reinforcement fibres, rovings, tapes, fabrics and fibre–matrix interfaces.

Textechno is firmly established as a global technology and market leader in the testing of man-made fibres and filament yarns.

Combining decades of experience, extensive engineering expertise and continuous innovation, Textechno today provides advanced testing technologies and dependable solutions for the international textile, fibre and composites industries.

PRODUCTS / SERVICES

Composites:

- Testing systems for determining single-fibre and interfacial properties, including fibre–matrix adhesion, contact angle and electrical conductivity
- Characterisation of glass- and carbon-fibre rovings, tows and tapes
- Measurement of the linear density (count) of glass rovings and carbon-fibre tows
- Commercial testing service for composites and reinforcement fibers

Textile- and chemical fiber industry:

- Instruments for the determination of all relevant mechanical and thermomechanical properties of fibers and yarns
- We provide turnkey testing solutions, including laboratory design, installation, commissioning, and operator training

REFERENCES AND EXPORT ACTIVITIES

Textechno serves customers worldwide, including leading producers of man-made fibres and filament yarns (Toray, Teijin, Mitsubishi, Asahi Kasei, Kuraray, Toyobo, DuPont, Hyosung, Reliance, Indorama, Rhodia, SGL), and companies/research organisations in the composites sector (ICC Kanazawa, AGC, Michelman, Toray/Zoltek, Johns Manville, FITI, Oak Ridge National Laboratory, Deakin University, ITA Aachen and Fraunhofer IGCV).

TARGET GROUP

We are particularly interested in meeting decision-makers and technical experts involved in the development, production and quality assurance of composites, glass and carbon fibres, reinforcement materials, and sizing formulations. We also welcome discussions with research institutes and universities working in these fields.

COMPETITIVE ADVANTAGES

Our innovative and highly reliable testing systems provide capabilities that are unique worldwide, particularly for the characterisation of composite reinforcements and fibre–matrix interfaces. Our products offer a high degree of automation, intuitive operation and straightforward integration into networks, manufactured entirely in-house, delivering 100% “Made in Germany” quality, flexibility and dependable technical support.

IDEAL BUSINESS PARTNERS

Japan is a key centre of innovation in carbon fibres, advanced materials and composite manufacturing. Through this project, we aim to present our testing solutions to existing and potential customers, better understand their specific quality-control requirements and establish long-term partnerships with Japanese companies and research organisations.

Carried out by: *In collaboration with:*

COMPOSITE TEXTILES

Our narrow textiles. Your Efficiency.



SUMMARY

vombaur is a narrow textile weaving company with intermediates for composites, industrial applications and filtration.

WWW.VOMBAUR.DE

MADE IN Germany

vombaur GmbH & Co. KG

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www.vombaur.de

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Sales Manager Composite Textiles
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Languages: German, English

COMPANY PROFILE

vombaur produces narrow textiles for composites of all sorts of fibres. Our company has been founded in 1805. Starting with ribbons for hats in the 1960s the focus was changed on technical textiles. Nowadays we produce customized narrow textiles for almost every application. One of our target areas is the production of intermediates for the composite industry. We serve customers in aviation, aerospace, shipbuilding, automotive, mobility, sports & leisure, medical.

With our 90 employees we have relocated our facilities to an existing industrial park in Wuppertal – Varresbeck. The modernized buildings are offering a controled production in air conditioned circumstances and boost our quality. The philosophy is tailored textile fabrics which are fit for purpose, efficient and developped to the customer requirements.

PRODUCTS / SERVICES

Customized textile fabrics with a maximum width of 330 mm made of any kind of fibre like carbon, glass, PET, PA, PPS, copper, stainless steel, basalt and many more.

R&D, production, quality management and logistics made in Wuppertal. Your project, our narrow textiles for highest efficiency and productivity.

REFERENCES AND EXPORT ACTIVITIES

Reference customers: Airbus, Diamond Aircraft, Collins Aerospace, Empacher Boats, ottobock.
Export globally from Wuppertal.

TARGET GROUP

Producers and endusers of CFRP, GFRP and lightweight parts of all other applicable fibres. Technical research institutions, Distributors.

COMPETITIVE ADVANTAGES

Small to medium size company with flexible service targetted on customer needs. Project orientated, development partner. Serious & reliable.

IDEAL BUSINESS PARTNERS

Producers and endusers of CFRP, GFRP and lightweight parts of all other applicable fibres. Technical research institutions, Distributors.

Project executor

SBS systems for business solutions

SBS systems for business solutions is a private consulting agency founded in 1999, with over two decades of experience in the planning, development and implementation of international projects. The company offers services such as workshops, events, individually organized B2B meetings, customized market entry strategies and support in the coordination of international teams for the Italian and German-speaking markets.

Since 2006, SBS has organized more than 300 internationalization projects, ranging from delegation trips abroad to large virtual conferences on behalf of several German ministries and other foreign government institutions.

In addition, SBS has been awarded the title of "Temporary Export Manager" by the Italian Ministry of Economic Development. A highly skilled team of project managers with multinational backgrounds at the Berlin and Rome offices is sensitized to the issue of cultural differences and therefore knows how to approach difficult cultural issues. SBS applies cross-cultural thinking and designs custom-made solutions that overcome intercultural borders to find the right partners for its clients. Thanks to a strong partner network and more than 1,000 German and international customers, SBS can facilitate a successful market entry in emerging and most attractive markets worldwide.

Project partner

Innovative Composite materials research & development Center

Since its establishment in 2014, the **Innovative Composite Research and Development Center (ICC)** has become one of the Japan's largest R&D centers for composites, promoting collaboration with institutions and companies to expand composite material applications. ICC's well-equipped environment includes large-scale molding facilities, a chemical lab for matrix resin development, and advanced evaluation equipment, enabling seamless development from raw materials to prototyping, evaluation, and simulation.

The center supports both academic research and corporate product development under its "Under-One-Roof" concept, welcoming corporate researchers and fostering collaboration until the final stages of product development. Annually, over 60 researchers from 50 companies join ICC's membership program, which also offers networking and technological trend-sharing activities through monthly forums and events. These efforts are supported by 20 researchers, engineers, and a Strategy Planning Team assisting with R&D planning, funding, and operations.

Kontakt ICC:

Yoshihiro Saito | Innovative Composite Center (ICC) | Phone: +81(0)76-276-3100 | E-Mail: icc-spt@mlist.kanazawa-it.ac.jp

Project partner

Sun Ten Consulting LLC

Sun Ten Consulting LLC was founded by German scientist Dr. Ralf Meyer. Based in Tokyo, it has many years of experience in consulting for the Japanese market. Specializing in B2B consulting, it supports foreign companies entering the Japanese market in various fields. Leveraging its highly specialized background, expert business knowledge, and deep cross-cultural understanding, it provides high-quality, customized support, including market research, local office establishment, and sales and marketing activities.

In collaboration with

Fraunhofer IGCV

IVGT

sBs
systems for business solutions

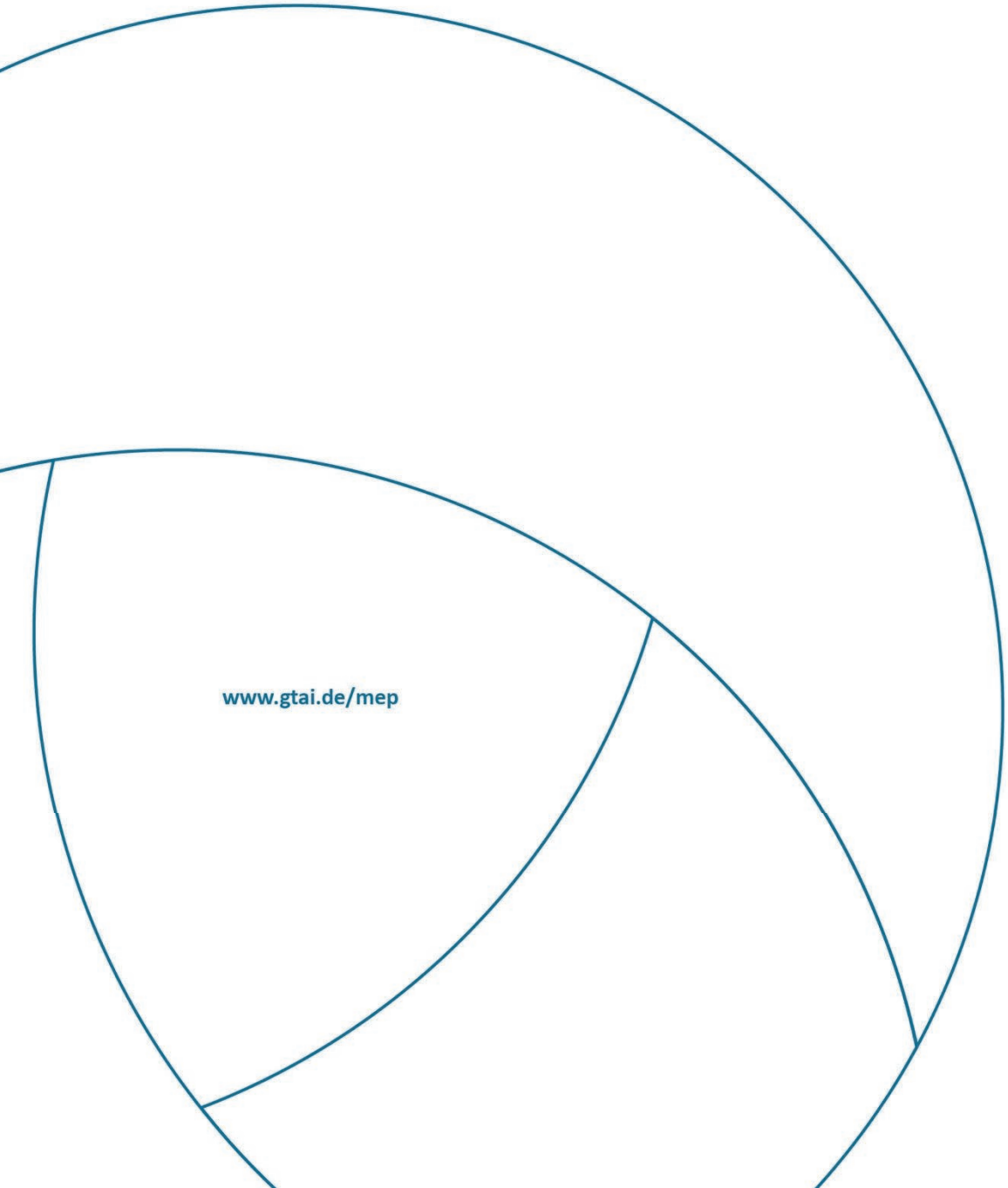
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agrifoodble.de
LinkedIn

Business success through cross-culture thinking


www.gtai.de/mep