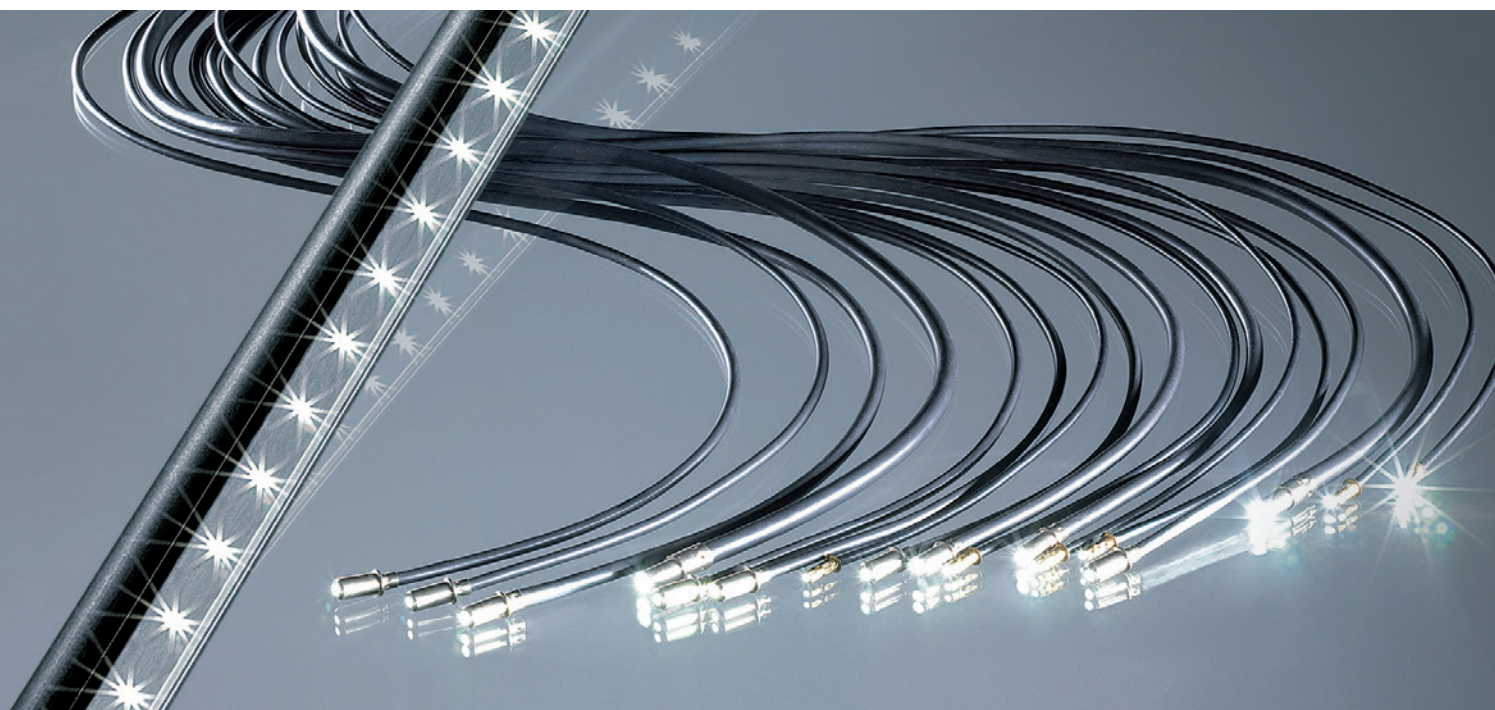




Federal Ministry
for Economic Affairs
and Climate Action



MITTELSTAND
GLOBAL
FOREIGN MARKET
ENTRY PROGRAMME



©SCHOTT AG (Quelle: Spectaris)

Israeli-German Business Dialogue on Photonics

German Photonics Delegation to Israel – 26th to 30th March 2023

Company Products and Services Catalogue

In collaboration with



Deutsch-Israelische
Industrie- und Handelskammer
לשכת המסחר והתעשייה
ישראל-גרמניה

Project of

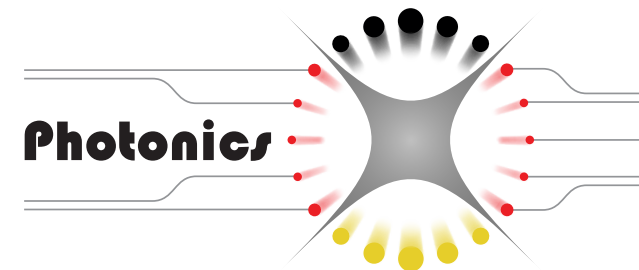


SBS

systems for business solutions

Israeli-German

business dialogue
26th-30th March 2023



German Companies

BUSCH Microsystems Consult GmbH

FBGS Technologies GmbH

fiberware GmbH

Hembach Photonik GmbH

Image Engineering GmbH & Co.KG

INNOLITE GmbH

MERSEN Deutschland Holding GmbH & Co. KG,
Division optoSIC

S1 Optics GmbH

UltraFast Innovations GmbH

As part of a bilateral business trip to Israel under the auspices of the German Federal Ministry for Economic Affairs and Climate Action (BMWK), a delegation of nine German suppliers of high-quality technologies, products and services in the optical industry will travel to Tel Aviv and Jerusalem in March 2023.

The aim is to establish new collaborations and partnerships with interested Israeli counterparts, offering products and services in photonics and optical sectors. This industry is increasingly looking for new business partners in Israel to build strong strategic partnerships that excel in the face of international competition.

On **Monday, March 27th**, you will have the chance to get a first glimpse at the companies and their technologies during a cooperation event, at the Royal Beach Hotel in Tel Aviv, followed by B2B meetings.

The pitch presentation event is taking place in the framework of the four-day **business delegation of German companies to Israel from March 27th to 30th, 2023**, with the purpose of an inspiring business dialogues and B2B meetings between small and medium-sized German companies and the excellence of the Israeli Photonic and Laser Industry.

The **German Photonics Delegation to Israel** is a funding project of the Federal Ministry for Economic Affairs and Climate Action (BMWK). The project is carried out by SBS systems for business solutions in cooperation with the German-Israeli Chamber of Industry and Commerce (AHK Israel).

Please find on the following pages a short company profile with further information of each of the German participating companies and their business interest with Israeli partners.



The Foreign Market Entry Programme assists German Small and Medium-Sized Businesses during all stages of their export activities. Participating businesses receive widespread support from the initial stages of market exploration up to the making of actual business contacts, e.g., by providing first-hand market information, organizing exploration trips and building networks. Key element of this support is the personal assistance during preparation, implementation and follow-up of these measures to ensure that the business arrangements are of high quality and sustainable.

This visit is part of the initiating business opportunities module of the Foreign Market Entry Programme and will facilitate business contacts as well as provide important impulses for the further intensification of the fruitful co-operation between Israel and Germany.

On behalf of the German Federal Ministry for Economic Affairs and Climate Action, I would like to thank the participants from Germany, all multipliers, and other involved parties in Israel for their contribution to create a successful measure.

Mr. Christian Tippelt

Director Foreign Market Entry Programme of the
Federal Ministry for Economic Affairs and Climate Action (BMWK)
Germany Trade & Invest

Welcome to the Israeli-German business dialogue in Photonics 2023

Israel is a highly innovative start-up nation with an increasing demand for photonics and optical components. It ranks amongst the TOP 30 export markets for German photonics with product exports worth 296 Mio. Euros in 2021 – which is an increase of 16% compared to 2020. In the last years, the technological use of light became a key driver of digital transformation. In our more and more digitalized world, photonics offers highly effective solutions for sensors and data transport. Deep tech applications such as artificial intelligence, big data, additive manufacturing, robotics, the Internet of Things (IoT), and autonomous driving will require faster, more reliable, more energy efficient and more powerful photonics and semiconductor components, which makes it a key enabling technology for the digital transformation. We hope that the participants will have an ideal platform to dive into the trends and new applications of photonics which are relevant for the demand in Israel. We wish all participants fruitful talks and interesting meetings.

SPECTARIS is the German Industry Association for Optics, Photonics, Analytical and Medical Technologies and pools the interests of more than 400 member companies from Germany, but also from Austria and the German-speaking parts of Switzerland. Innovation and growth characterize the different industry sectors and their 327,000 strong workforce. Technologies developed here are used in almost all branches of industry, making them an important motor for the global economy.

The Photonics division of SPECTARIS represents companies from the sector for lasers, optical components, imaging & photo technology, microscopy, measurement instrumentation and sensor technology and more. We represent more than 100 leading manufacturers in the optical technology sector.

SPECTARIS is involved in numerous industry specific project activities for the support of German companies abroad, all focused on one single objective: initiation and expansion of contacts with industry stakeholders as well as industrial enterprises in other countries. SPECTARIS is also very active in organising trade fair participation worldwide, in the removal of non-tariff barriers and providing market intelligence to its members.

**SPECTARIS – German
Industry Association for
Optics, Photonics,
Analytical and Medical
Technology e.V.**

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Website: www.spectaris.de

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www.optonet-jena.de

Anke Siegmeier

Managing Director

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Dear valuable partners and participants of the Israel delegation 2023,

what a difference it makes to be in Israel in person again!

Shalom to all of you dedicated photonics and electronics entrepreneurs, scientists and partners joining the delegation to Israel this year. It is my pleasure to see you connecting to one of the most interesting hightech markets and communities within photonics industry.

On behalf of OptoNet, the Photonics Network in Central Germany, with more than 100 members in optics industry and science, I'd like to welcome all of you to this year's event.

For more than six years now we have the honor to work with Photonics Israel, their member companies, world leading science institutes and their vibrant startup-scene.

The major conference on electro-optics in Israel OASIS 8 in December 2023 once more has shown the importance of cooperating with Israeli partners: High end components and systems, imaging, laser technology, computational photonics, advanced sensing and their applications for life sciences, semiconductors, mobility, defense and security and many more to discover.

But it's not only latest technology you'll find in Israel. It's making connections efficiently and fast with often making lifelong friends. It's sharing and openness.

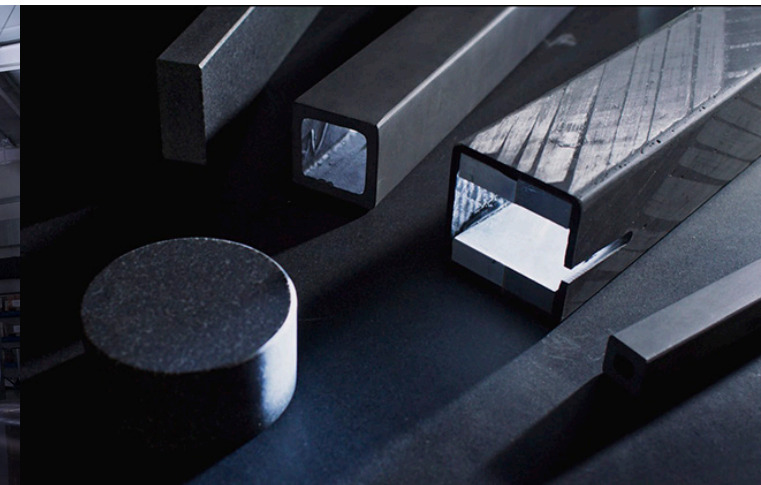
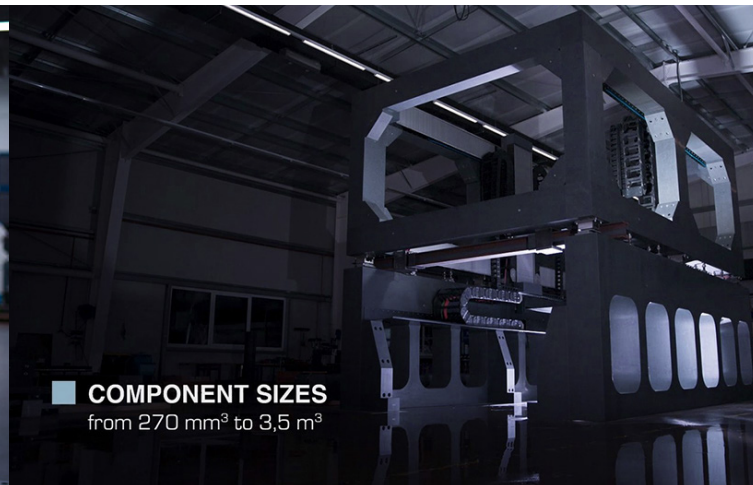
In this sense I wish you a successful event with many fruitful contacts. Please feel kindly encouraged to be curious and get in touch with whoever you meet during these days. My deep thank you goes to the German Federal Ministry for Economic Affairs and Climate Action who made this event possible, the German-Israeli Chamber of Industry and Commerce, SBS systems for business solutions for their long year commitment and above all to all Israeli organizations for their hospitality and cooperation.

Enjoy the energy, diversity and inspiration Israel will bring to your business and life.

Yours sincerely,

Anke Siegmeier,

Managing Director, OptoNet e.V., Jena/Germany



Summary

The Company incorporates more than 20 years' experience in design and manufacturing of precision motion control to provide turn-key system solution.




made in
Germany

Company Profile

BUSCH incorporates more than 20 years' experience in design and manufacturing of precision motion control to provide turn-key system solutions in the semiconductor, 3 D printing, and laser micromachining industries. We offer a number of standardized positioning systems, for example of granite or CFC hybrid systems, that feature maximum system and repetition accuracy. From a mere granite installation up to a highly precise axis system – a holistic approach is the focus of all solutions.

Products / Services

Our engineers and technicians develop motion control systems, ready for installation and connection, that convince through compact design, optimum precision and fast positioning. Thanks to their high rigidity and low inertia, our systems reach high accelerations with very small yaw, pitch and roll errors.

Our basis for your application!

The variety of tasks to be met by our customers call for individual solutions. Our basic systems are designed in such a way that they can be adjusted specifically to your requirements.

We offer the following options, for example:

- Scalable strokes
- Optimization for higher bearing loads
- Absolute or incremental measuring systems
- Combination with additional axes
- Design of the system for clean room operation
- Suitable material selection for various vacuum classes
- Covering, e.g. bellows
- with or without controllers
- Application of various materials such as granite, aluminium, stainless steel or ceramics
- etc.

References and export activities

Well-known customers from a variety of industries (including laser processing, electronics production, semiconductor industry, display and photovoltaic production).

Target group

- Optical industry
- Battery manufacturing industry
- Hydrogen industry
- Semiconductor industry
- Imagesetter (for semiconductors)
- Medical products (e.g. stands)

Competitive advantages

- Customized motion stages // positioning systems, which are characterized by the highest system and repeatability accuracy (micro and precision machining)
- Intelligent motion for laser processing
- Turnkey solutions
- Laser control interface

Ideal Business Partners

- Manufacturers of semiconductor wafers/bonders for semiconductors/printed circuit boards/printed circuits/imagers for semiconductors
- Manufacturers in the field of optics
- Manufacturers of bipolar plates (in fuel cells)
- Manufacturers of batteries
- Manufacturers of computer tomographs
- Manufacturers in the field of medical technology (e.g. of stents)
- Research facilities (lasers)
- Distributors: e.g. for small to medium-sized motors and drives (e.g. linear motors)



BUSCH Microsystems Consult GmbH

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Project

Israeli-German
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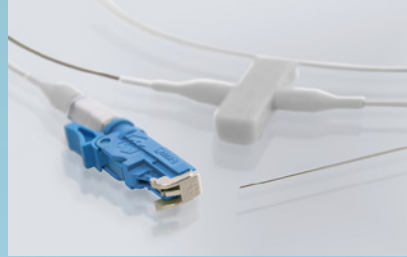


Supported by:



Project of:





Energy



Medical



Process
Industry



Transportation



Infrastructure

Summary

FBGS is a Germany and Belgium based developer and manufacturer of tailored fiber optic components and sensing solutions.



Company Profile

FBGS is a Germany and Belgium based developer and manufacturer of tailored fiber optic sensing components and solutions combining both fiber optic sensors and interrogation technology. Their unique manufacturing technologies enable products suitable for both standard and bespoke applications in temperature, shape, strain, force and pressure sensing. Key players in industries such as process industry, energy, civil engineering or medical rely on FBGS to enable advanced monitoring in harsh or demanding environments where no other sensing methods can be implemented. Their strong application know-how and the full vertical integration from fiber to software has led FBGS to become an innovation driver, empowering their customers especially in medical catheter applications and steel casting monitoring. FBGS look toward a bright future based on steady and healthy growth.

Products / Services

Fiber optic sensing solutions & components, FBG sensors and measurement devices for shape sensing, temperature sensing, strain sensing, pressure sensing & force sensing solutions.

References and export activities

Over 70% export activities and references in a variety of sectors.

- Medicine: KU LEUVEN, CSIRO
- Process industry: VOITH, Fabrisonic
- Infrastructure: Daimler Chrysler, TenCate
- Energy: ECN, Indra
- Transport: DSTO
- Composite: Com&Sens, itke
- R&D: Deltatech, HBM
- Telecom

Target group

Medical, process industry, energy, transportation, infrastructure.

Competitive advantages

Deep application know how and vertical Integration, ISO 9001:2015 compliant fiber and grating production capabilities for standard and customized solutions, Unique combination of FBG production processes: Draw Tower Gratings (DTG®), FemtoSecond Gratings (FSG®) with own FBG Interrogator platform.

Ideal Business Partners

Distributors, medical end-device producers, system integrators, research institutions.

FBGS

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Project

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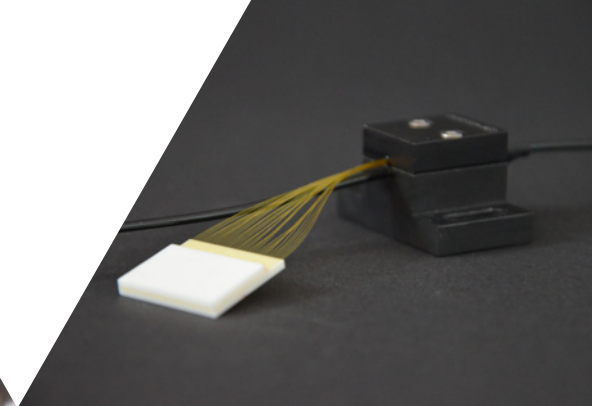
Project of:



fiberware

Summary

Worldwide producer of speciality optical fibers, fiberoptic based products, and capillaries for standard and non standard applications.



www.fiberware.de

Company Profile

Fiberware GmbH was founded in 1990. The company fiberware is located in Mittweida. Mittweida is a famous university town in Saxony where laser and other optical technologies are developed. Fiberware is a worldwide known and leading manufacturer of special optical fibers, special cables, fiber optic sensors, fiber bundles, capillaries and other fiber optic products for standard and special applications. Our expertise is to guarantee the highest quality manufacturing of products and to develop product innovations closely with our customers.

Products / Services

- IR, UV, SM optical fibers
- Microstructure fiber
- Hollow waveguide
- optical special cables
- capillaries

References and export activities

more than 50% Export.

Target group

- Optical Industry
- Industry and medical laser producer
- Universities
- Optical sensor producer
- Fiber optical assembling company

Competitive advantages

Made in Germany, own R&D department, more than 30 years optical experiences, produce optical products from drawing until assembling, cleaning rooms for medical application.

Ideal Business Partners

Optical industry, industry and medical laser producer, Universities, optical sensor producer, fiber optical assembling company.

fiberware

fiberware GmbH

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Project

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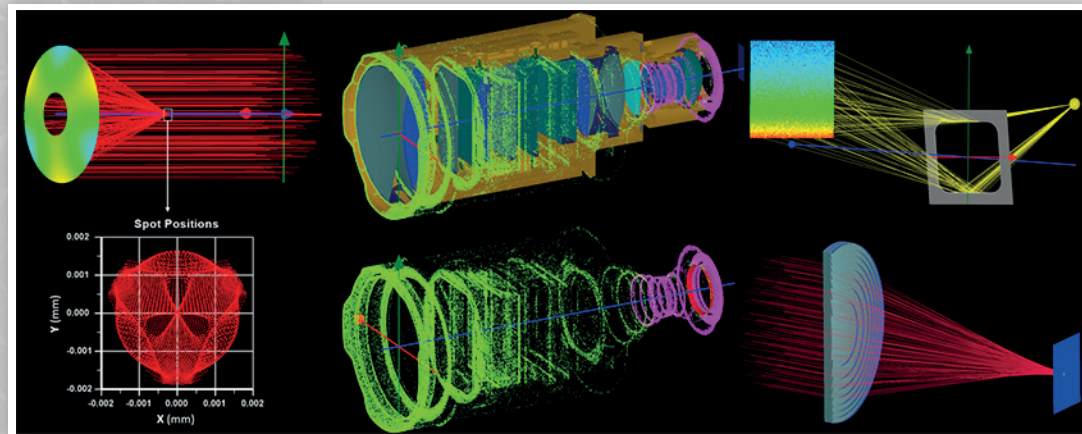
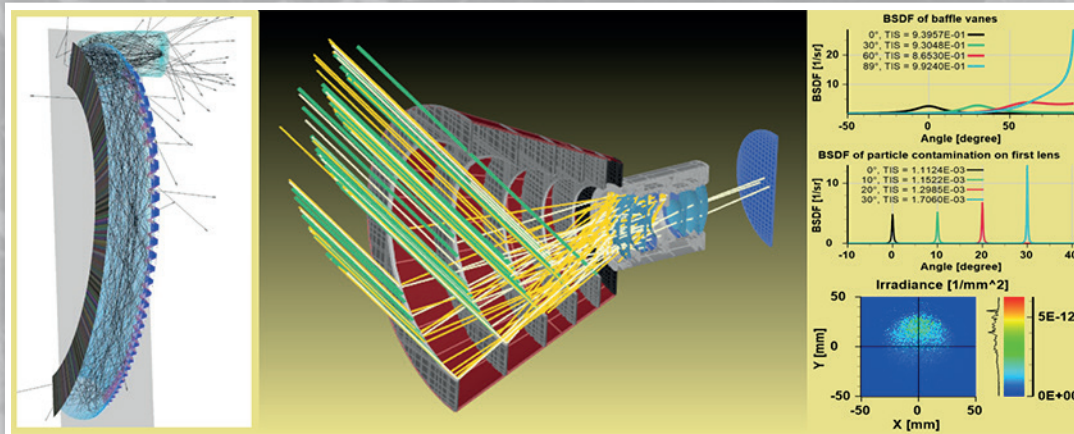
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HEMBACH



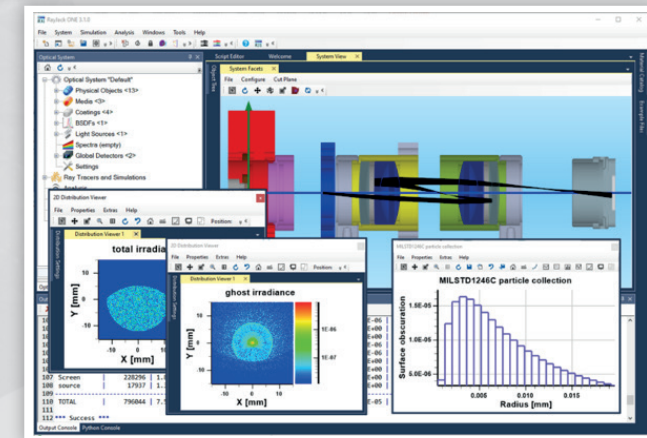
PHOTONIK



RayJack ONE®

Summary

Your partner for the development and analysis of optical systems and developer of RayJack ONE®.



made in
Germany

www.hembach-photonik.de/en

Company Profile

Hembach Photonik GmbH is an engineering partner for the development of illumination, sensor and imaging optical systems and supports customers with optical design and analysis services, optical software, and training. We are leading European supplier for stray light analysis located in Schwabach near Nuremberg, Germany.

Our main software product is RayJack ONE®, a multi-purpose non-sequential ray-tracer developed by Hembach Photonik and funded by the European Space Agency. It is a full-fledged optical design and analysis tool and offers cutting-edge algorithms for radiometric calculations and stray-light simulations, as well as an unparalleled toolbox for optical analysis.

Products / Services

- Engineering Services, with a strong focus on stray light analysis.
- RayJack ONE®: multi-purpose non-sequential ray-tracer. Especially suited for design and analysis of non-imaging optics (illumination and sensor systems, stray light). Implements novel techniques for radiometric calculations and stray-light simulations, and an unprecedented tool-set for optical analysis. A Python-based intuitive scripting environment offers maximum flexibility and control over simulations.
- Distributor of SYNOPSIS™: a powerful lens-design software for the full chain of the lens-design process (created by Optical Systems Design, LLC (USA))

References and export activities

- Our Software is sold worldwide. China, Europe & US being the strongest markets
- Engineering services: so far mostly Europe & North America, with plans to expand
- Customers typically cannot be disclosed due to NDAs
- Engineering: stray light analyses for major space missions such as Copernicus (Sentinel 3, 4, and 5), Meteosat 3rd Generation, BepiColombo, JUICE.
- Software: European Space Agency; further references currently in negotiation

Target group

- High technology industry with strong R&D in optics, especially: space, defense, automotive, biomedical and related
- Customers with applications in optical sensors, illumination, light scattering
- Optical designers and engineers
- Academic research

Competitive advantages

- Unique combination in engineering know-how in combination with software. We offer consulting services, optical software or both.
- Leading supplier for stray light analysis with > 20 years of experience.
- Through its novel algorithms and the versatility of the Python interface, RayJack ONE® is a better alternative to other optical analysis tools, particularly for non-standard optical systems and simulations tasks.

Ideal Business Partners

Companies, research institutes, and individual optical engineers with challenging optical simulation tasks, including, but not limited, to the following application fields: space, defense, optical sensors, bio-medical.



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Languages: English, German

Project

Israeli-German
business dialogue
26th-30th March 2023



Supported by:



Project of:



The next **generation** of image quality evaluation



Summary

Market-leading manufacturer of test solutions for camera and sensor image quality performance evaluations.




made in
Germany



www.image-engineering.de

Company Profile

Founded in 1995, Image Engineering is the world's leading manufacturer of image quality test equipment. Our test charts, analysis software, measurement, and illumination devices provide companies with the means to more accurately test and evaluate the image quality of their camera and sensor systems.

Over the years, we have expanded into numerous industries, including photography, mobile phone, automotive and ADAS systems, security, broadcast, machine vision, medical/endoscopy, and scanner and archiving. Almost any company that relies on high-quality imaging can use and benefit from our wide range of solutions.

Image Engineering is also home to one of the largest independent test labs in the world. Recently redesigned at our new business location in Kerpen, our test lab adheres to (when possible) ISO and other international standards to objectively test and evaluate cameras from any industry.

Contact us for consultation and our options for solution customization.

Products / Services

We offer over 250+ test charts for measuring the most vital image quality factors, including resolution, texture loss, color, distortion, flare, dynamic range, noise, and low light.

Our illumination devices are powered by advanced iQ-LED technology, providing spectrally tunable light sources for camera calibration and characterization. Our Vega light source is powered by DC technology to measure cameras with extremely short exposure times. Many of these devices can be incorporated into production lines.

Our GEOCAL device uses a beam-expanded laser for geometric camera calibration, and we also offer timing measurement and temperature-controlled devices for camera testing. The iQ-Analyzer-X software, built entirely on C++, is one of the market's most advanced image evaluation software.

For over 20 years, we have operated one of the world's largest independent test labs. We test camera and sensor systems using the latest ISO and other international standards.

References and export activities

We export our products and solutions to companies around the world. Two subsidiaries and a network of resellers support us in the USA, China, and 7+ other countries worldwide.

Target group

Our customers are manufacturers that develop high-performance camera or sensor systems. We work with companies from industries including automotive, security, machine vision, mobile phone, broadcast, medical/endoscopy, traditional photography, and scanner/archiving. We also provide our products to universities and other research institutions.

Competitive advantages

We provide the full scope of image quality testing, from initial consultation and design to implementation and maintenance support. We have solutions for each step in the process and can help you design a custom solution for those with unique requirements. We also offer automated solutions for test labs, and many of our products can be implemented into production lines for more efficient calibration and characterization.

Ideal Business Partners

We aim to connect with potential companies and universities in Israel who could benefit from our advanced image quality solutions.



Image Engineering

MEMBER OF THE NYNOMIC GROUP

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Languages: English, German

Project

Israeli-German
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26th-30th March 2023



Supported by:



Federal Ministry
for Economic Affairs
and Climate Action



Project of:



systems for business solutions

SBS





Ultra Precision Machine Tools

Summary

Producer of ultra precision machine tools, alignment turning machines, molds and optics.




made in
Germany



Company Profile

Innolite GmbH – Driving productivity in ultra precision technology.

We develop and produce our own ultra precision machine tools. Moreover Innolite produces polymer and metal optics and mold inserts for optical components. Besides diamond turning we are specialised in the various fields e.g. direct cutting of steel and alignment turning of lenses.

Products / Services

- Ultra precision machine tools
- ILCENTRIC (Alignment turning of mounted lenses)
- ILSONIC (Cutting directly in steel)
- Support in optical design
- Mold inserts for optical components
- Polymer optics
- Metal optics

References and export activities

Main customers work in the field of:

- Smartphones (OEM and TIER1)
- Medical devices
- Military
- Automotive lighting
- R&D
- Worldwide activities. Main markets are Asia, Europa and North America

Target group

- Photonics business in general
- Smart devices (OEMs and Tier1)
- Lighting especially for automotive
- Aerospace
- Optical medical devices

Competitive advantages

Fulfilling of highest demands on surfaces and accuracy
Great know-how along the optical value chain
Development focused on customer needs.

Ideal Business Partners

- Optical industry
- Industry and medical laser producer
- Universities
- Optical sensor producer
- Fiber optical assembling company



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Languages: English, German

Project

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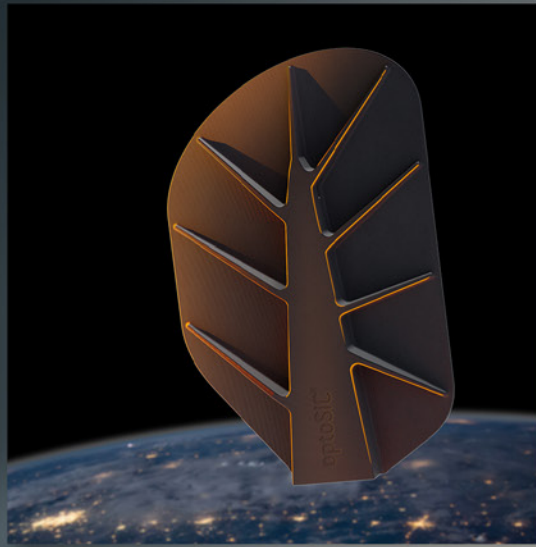
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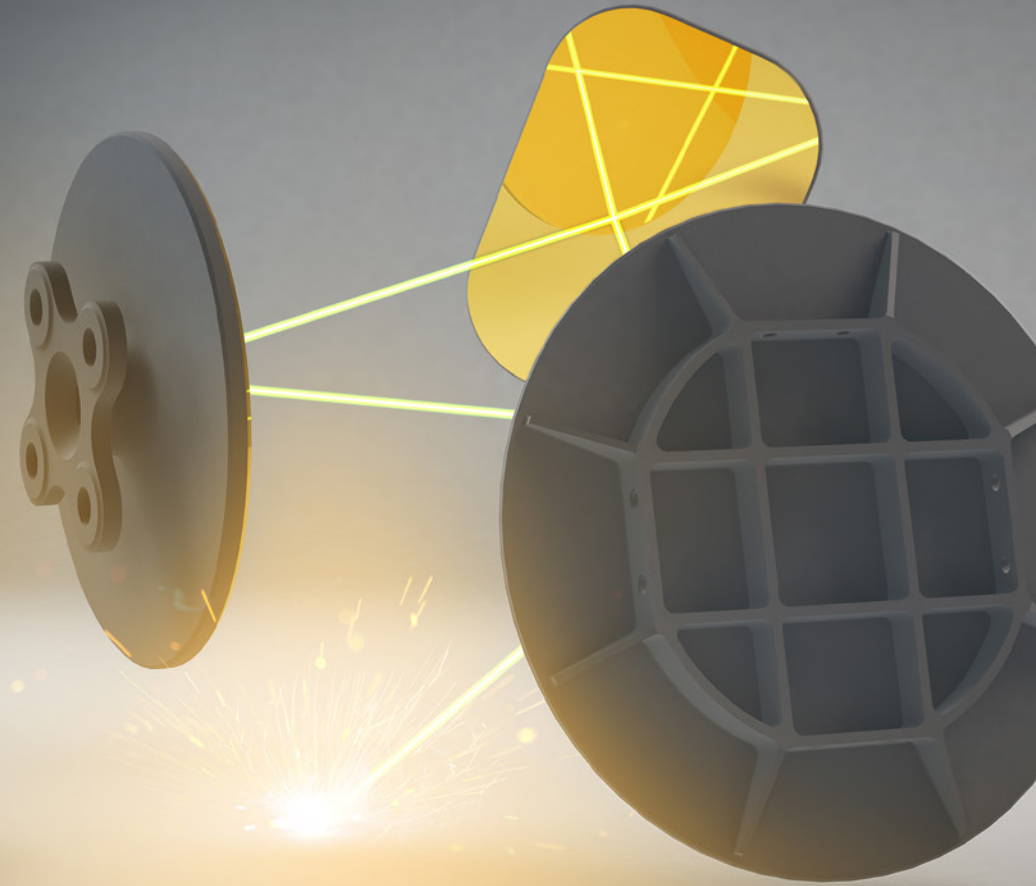


optoSiC[®] SiC OPTICS FOR HIGH-END LASER PROCESSES



Summary

Developer and manufacturer of innovative high-performance laser galvo scanning mirrors with a range of high reflective coatings.



Company Profile

optoSiC, a division of the MERSEN Group, develops and manufactures innovative high-performance laser galvo scanning mirrors in SiC optoSiC+ material from 10mm to 500mm apertures for single pair consumption with a range of high reflective coatings.

optoSiC offers furthermore standard and customized SiC Fast Steering Mirrors (FSM) from 25,4mm to 300mm diameter. A wide range of mount solutions allows the user to replace the standard low performance mirrors with SiC high-end mirrors that best fits the specific application. These SiC Fast Steering Mirrors (FSM) are available with a range of high reflective coatings as well.

The unique SiC optoSiC+ material has the highest combination of thermal and mechanical stability of any material which can be optically polished. The result is a perfect optic for high performance lightweight application.

Products / Services

- Galvo Scanning Mirrors in SiC optoSiC+: lightweight mirrors for high-speed laser scanning systems. Our special mirrors design utilizes the inherent stiffness and hardness of SiC to enable the realization of ultra-lightweight with low deformation, even in high-speed applications.

- Fast Steering Mirrors (FSM) in SiC optoSiC+ from 25,4mm to 300mm diameter. A wide range of mount solutions allows the user to replace the standard low performance mirrors with SiC high-end mirrors that best fits the specific application. These SiC Fast Steering Mirrors (FSM) are available for different wavelengths ranging from 250 – 1700 nm.

- OEM customer-specific products in SiC optoSiC+: Thanks to our many years of experience in the design of optics in SiC, we are your partner in all steps of the development process. Our support also refers to the requirements specification, optical/mechanical design and, if desired, finite element calculation.

References and export activities

We are the global market leader in our business field of SiC optics for high-end applications. We inspire customers worldwide and have already had very positive experiences with customers in Israel.

Target group

Our goal is to expand business relationships with customers in Israel in Photonic, Space and Defense.

Competitive advantages

SiC optoSiC+ optics:

- Low moment of inertia
- High resonance frequency
- Lightweight
- Fast thermal stabilization
- Standard and custom designs
- Outstanding optical surface quality
- Standard and customized coating service
- replacement of optics in Beryllium

Ideal Business Partners

We are looking for business partners in the areas:

- High power laser material processing (welding, drilling, cutting, marking, structuring,...)
- Additive manufacturing
- Defense and Security for targeting application
- Laser communication in Space (Point-to-Point)
- Airborne scanning / 3d mapping



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Project

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business dialogue
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Supported by:



Project of:





- Consultation
- Simulation



- Layer system development
- Sample Coating



- Coating

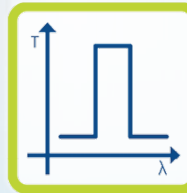


- Analytics

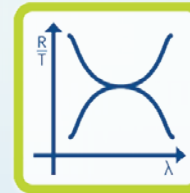


Summary

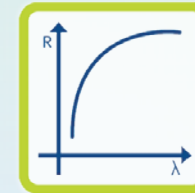
S1 Optics GmbH develops, produces and inspects optical functional coatings on the substrate materials glass and metal.



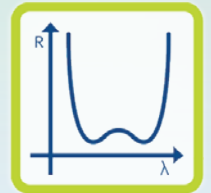
Selective mirror



Beam splitter



HR



AR



Company Profile

S1 Optics GmbH – The Coating Company

Since our spin-off from the IST Metz group in 2001, we have been both a service provider for high-quality coatings and a supplier of complete solutions. We develop and produce optical functional coatings on the substrate materials glass, metal and plastic. You can obtain both dielectric and metallic coatings from us.

We offer the complete process chain from consulting, design, procurement of substrate material to mechanical processing and packaging. Our measurement methods and inspections are at hand to analyze the optical coatings according to customer requirements or established standards.

Reliable processing of orders, a high degree of flexibility as well as a broad expertise guarantee a long-term cooperation based on partnership.

We will find the right way from your idea to your product.

Products / Services

Different substrate sizes, shapes and materials allow a variety of products with a wide range of optical functional coatings.

- HR coatings on metal and glass
- AR coatings on glass and ceramics
- Metallizations on glass, ceramics, metal and plastics
- Filters/beam splitters on glass:
Short/long pass filters, Dichroic beam splitter, Neutral filter, Bandpass filter, Notch filter
- Services according to norm:
Analytics, Spectroscopy, Climatic tests, Coating quality
- Additional services:
Sourcing of the substrate material, Qualified cleaning processes, Mechanical processing (cutting, engraving, marking), Special packaging

References and export activities

Global export, but mostly within the DACH region,

We have already cooperated with the Israeli market in the past on various projects in the field of UV technology.

Target group

Our functional coatings are mainly used in the following industries and applications:

- Optical industry
- UV technology (print, industrial, water disinfection)
- Measurement technology (sensors, analytics)
- Medical technology (dental, surgical, endoscopic)
- Mechanical and plant engineering (safety installations, protective windows)

Competitive advantages

- Over 20 years of experience in the coating industry
- High flexibility and responsiveness
- Customized consulting and solution finding
- Coverage of the complete process chain
- Development and production of small series and prototypes
- Coating of large substrates
- Optical measurement and testing according to standards of coated components – also from third-party production
- Extensive supplier and partner network

Ideal Business Partners

We are looking for new customers and partners in the Israeli market, whom we can support with many years of experience and expertise in the coating industry.



S1 Optics GmbH

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Languages: English, German

Project

Israeli-German
business dialogue
26th-30th March 2023

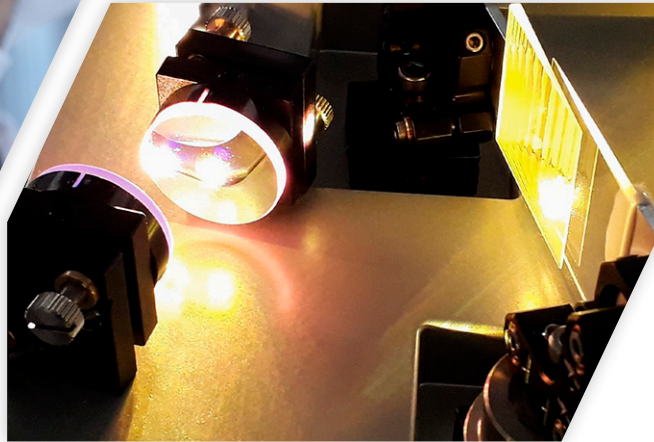
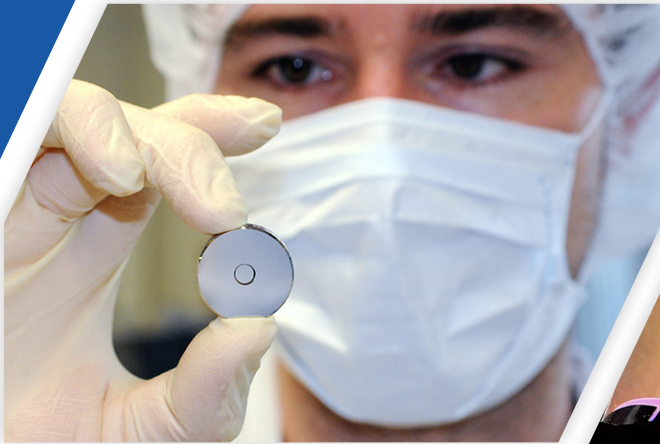


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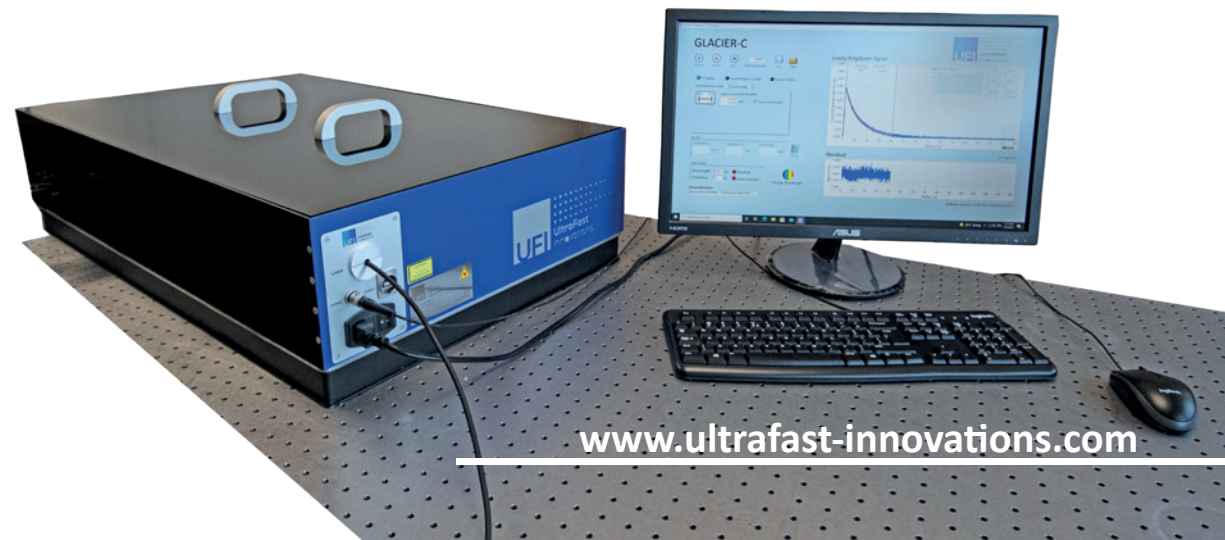


Summary

Manufacturer of custom-made optics, broadband coherent sources, diagnostic devices and engineering solutions in ultrafast science.



made in
Germany



www.ultrafast-innovations.com

Company Profile

UltraFast Innovations GmbH (UFI®) was founded in 2009 as a spin-off from the Ludwig-Maximilians-Universität München (LMU) and the Max Planck Institute of Quantum Optics (MPQ), in particular from the groups of Professors Ferenc Krausz and Ulf Kleineberg. Our roots date back to the inception of chirped mirrors in the 1990s. From the beginning, Prof. Krausz and colleagues pioneered chirped mirror technology and attosecond pulse generation. Over the years, much experience in the theoretical design, reliable manufacture and thorough testing of optics has been accumulated. This experience has been crucially helpful in numerous innovations; for instance, in the generation of laser pulses with a duration of three femtoseconds. It was also the key ingredient in achieving some of the shortest light pulses ever created, at a duration of 80 attoseconds. We furthermore developed characterization instruments, that we now commercialize. Now, we are making this experience available to our customers.

Products / Services

We specialize in the design and manufacture (from standard to tailor-made) of optical elements and devices for ultrafast laser applications. Combining broadband coherent sources with unique dispersive technology, we offer the tools to generate and diagnose the shortest pulses on the market in the femto- (UV-VIS-IR) and attosecond (XUV/soft X-ray) range, ideal for applications in spectroscopy and pump-probe experiments. We have complex design and manufacturing capabilities in dielectric optics for laser applications, as well as metallic multilayer structures for XUV/soft X-ray applications. Finally, our product portfolio is complemented by characterization devices for dispersive and high-reflective mirrors. Through our integral consultation approach, we help our customers find the solution that best suits their exact requirements/specifications.

References and export activities

Our primary markets are located in North America, Europe and Asia and count numerous industrial coating facilities, laser manufacturers as well as international research groups needing cutting-edge optics, diagnostic tools and radiation sources.

We export the majority of our products outside of the EU.

Target group

Research institutes and companies that:

- need to characterize optical coatings
- need high-end dispersive optics
- work with ultrafast laser sources

Competitive advantages

- Decades of experience in production of high-end dielectric and XUV/soft-X-ray optics
- Our optics have won multiple innovation awards
- Access to the latest research through close collaboration with research groups
- High degree of consultation and customization to our products is possible to ensure that you get the product you need

Ideal Business Partners

- Laser facilities and manufacturers
- Research institutions operating with ultrafast and/or high intensity lasers
- Optical coating facilities
- Local distributors



UltraFast Innovations GmbH

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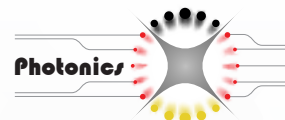
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Project

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SBS systems for business solutions is a 1999 established private consulting agency, with two decades of experience in the planning, development and implementation of international projects. Moreover, the company offers services such as workshops, events and individually organized B2B-meetings, as well as individual strategies for market entries and assistance for the coordination of international teams for the German-speaking and Italian market.

Since 2006, SBS has been organizing hundreds of internationalization projects from delegation trips abroad to big virtual conferences on behalf of

several German ministries and other foreign governmental institutions. In addition, SBS has been honored by the Italian Ministry of Economic Development with the title of “Temporary Export Manager”. A highly-skilled team of project managers with multinational backgrounds, based in Berlin and Rome, is sensitized for the topic of cultural differences and therefore knows how to approach difficult cultural issues. In fact, SBS applies cross-cultural thinking and designs custom-made solutions that overcome intercultural borders to find the right partners for their clients. Thanks to a strong partner network and more than 600 German and international clients, SBS is able to facilitate a successful market entry in the most emerging and attractive markets worldwide.



German-Israeli Chamber of Industry & Commerce

AHK Israel is officially registered as the 'German-Israeli Chamber of Industry & Commerce'. It was founded in 1967 and is a business-to-business organisation of numerous Israeli and German member firms. The Chamber's commercial services help an array of companies each year to start and expand their export activities by providing business contacts, information and advice.

The German-Israeli Chamber of Commerce stands for quality. Our employees are our most important asset. We offer subject-specific expert knowledge in combination with the Israeli-German language and cultural competence. We offer tailor-made support - from the first information to the daily support in your current business. We continue to evolve through critical internal discussions and continuous engagement with our members and customers. The aim of AHK Israel is to promote German-Israeli trade and to represent the interests of its members. We work hard for your success!

AHKs are closely connected to the Chambers of Industry and Commerce (IHKs) in Germany. Together, they support German companies with establishing and extending their business relations to foreign countries. The umbrella organisation of the IHKs is the German Association of Chambers of Industry and Commerce (DIHK), which also coordinates and supports the AHKs. Furthermore, cooperation with various German trade associations strengthens the link between AHKs, businesses and markets. The German-Israeli Chamber of Industry & Commerce is supported by the Federal Ministry of Economics and Technology in accordance with a Resolution of the German Parliament.

In 130 locations and 90 countries around the world, members of the German Chamber Network (AHKs) offer their experience, connections and services to German and foreign companies. AHKs are located in all countries which are of special interest for German companies.

In collaboration with



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Business success through cross-culture thinking

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