



SCHUNK GROUP

#passionfortechonology



>> *The management of the company is to be kept in such a way that the healthy further development and the preservation of independence are in the foreground.* <<

Founder Ludwig Schunk

AT YOUR SIDE WORLDWIDE

Employees

9,200+

Company foundation

1913

Sales in 2022

1,4 Mrd. Euro

Locations worldwide

65

Our mission statement

The foundation of our success is our long-term orientation. Since the beginning of our company's history, our focus has been on healthy further development and maintaining independence.

ENTHUSIASM FOR TECHNOLOGY

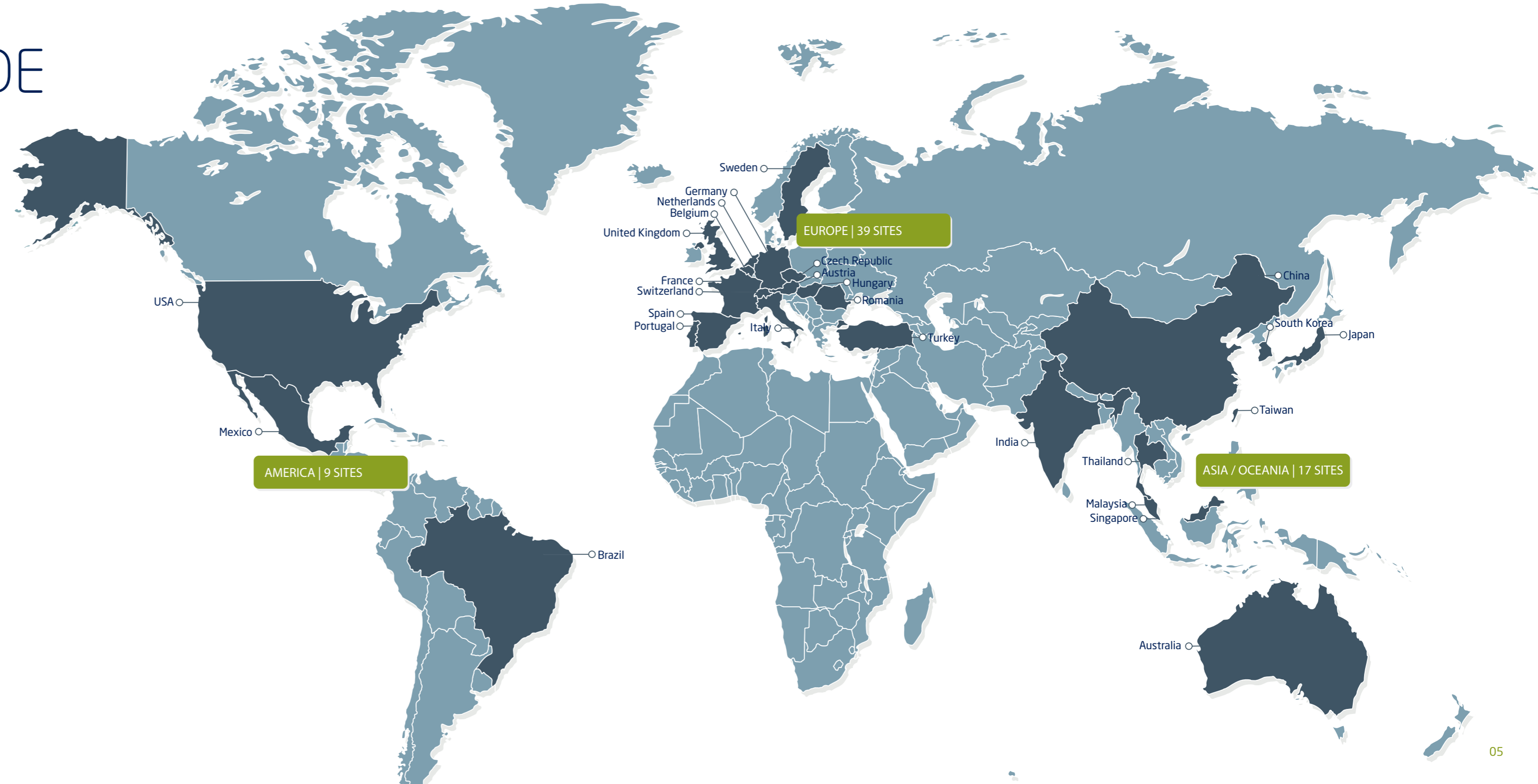
We are competent and full of ideas. This makes us the innovative technology leader that is always one step ahead.

PRAGMATIC IN ACTION

We provide fast solutions and efficient results. In doing so, we act as a medium-sized company and as a partner.

FOCUS ON THE CUSTOMER

We pave the way for our customers' success. Together with them, we make a significant contribution to a sustainable future.





WE TAKE RESPONSIBILITY

Sustainability is firmly anchored in our corporate culture. We help our customers achieve their sustainability goals - with innovative products and sustainable production processes. Together, we make a technological contribution to a sustainable industry. We support the sustainable development goals of the United Nations and are committed to people and nature.

FOCUS ON PEOPLE

Our employees are our most valuable asset. Their expertise, motivation and personality are the basis of our success. We support them in their development and offer them further training and health programs.

PROTECTING THE ENVIRONMENT AND SAVING RESOURCES

Sustainable ecological action has never been more important to protect people and nature. We are aware of our responsibility and meet it with our innovative strength as well as concrete measures such as the intensive use of photovoltaic systems.

ENTREPRENEURIAL SPIRIT WITH VISION

Successful long-term management – as a foundation-owned company, we have committed ourselves to this. This basic principle guides us in all our entrepreneurial decisions.

FOR EXAMPLE:

SCHUNK SMART CHARGING



Our unique portfolio of charging solutions based on pantograph technology can be individually tailored and optimally and can be optimally integrated into an existing infrastructure.

Whether for e-buses, e-trucks or electric-autonomous vehicles at ports, airports and in mines - we offer charging technologies and components that set standards.

Learn more:



WE ARE INNOVATIVE

As a technology group innovation is very important to us, as it is a key factor for long-term success. Our strategy therefore focuses on technology leadership. We want to differentiate ourselves through better products and technological innovations.

PROXIMITY TO THE CUSTOMER

For us, it is elementary to know and understand the needs and challenges of our customers. For example, we make a strong contribution to deepening mutual understanding with tech days at our customers' sites.

COOPERATION WITH RESEARCH INSTITUTIONS

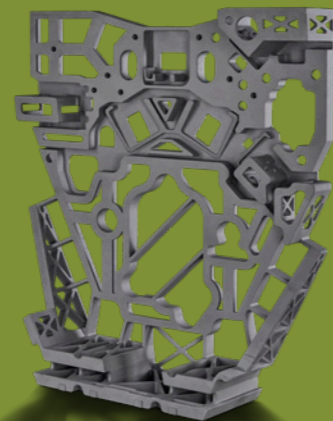
New impulses and approaches often originate in universities and institutes. We are therefore very well networked nationally and internationally and involved in numerous research projects.

DIGITAL BUSINESS & SERVICES

Our aim is to proactively shape the digital transformation in our markets. To this end, we identify, design and offer digital products and services that create added value for our customers.

FOR EXAMPLE:

3D PRINTING FROM CERAMIC



When you need structural components made of ceramics that are as large as a human being, it can become a challenge. A challenge that the Zeiss company also faced.

The experts at Schunk Technical Ceramics have developed a technology for processing silicon carbide in a 3D printing process. The process, called Intrinsic[®], can be used to produce components that were previously not possible with ceramics due to their complexity and size. By using this process, Schunk was able to save around 500 tons of CO₂ last year.

Learn more:



WE KNOW OUR STUFF

We are represented in almost all industries with our innovative materials and machines. Here our customers benefit from our technological and market leadership. Which topic can we support you with?

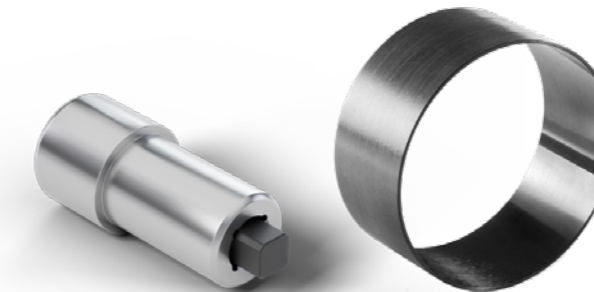
- > Mobility
- > Energy
- > Semiconductor
- > Aerospace
- > Electrical industry & IT
- > Optical industry
- > Life Science

MOBILITY

We take you to your destination

When it comes to mobility, we have been a reliable development partner and supplier since our beginnings. From test chambers for load tests of batteries to rotor bandages for high-performance electric motors to intelligent condition monitoring in railway technology to safe ultrasonic welded joints in cable harnesses. With Schunk, the mobility of the future gets rolling.

Examples of innovation in the field of mobility ▾



^ Shaft grounding for oil rotor & reinforcement sleeve for rotor stabilization



^ Digital Condition Based Maintenance System for pantographs (OnTrack Monitoring)



^ Ultrasonic welding machine Minic-III



^ Climatic test chamber ClimeEvent for Environmental simulation tests

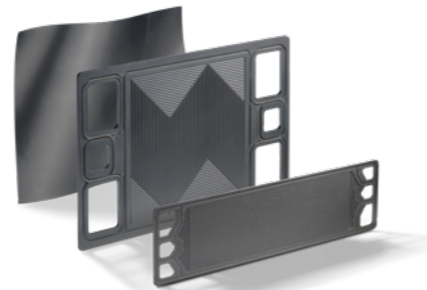


ENERGY

Full of energy at your side

The energy transition is in full swing and we are helping to shape it - with solutions for wind turbines, solar cells, fuel cells and redox flow batteries. When it comes to efficiently generating energy, safely transmitting electricity and using it economically, we are full of energy at our customers' side.

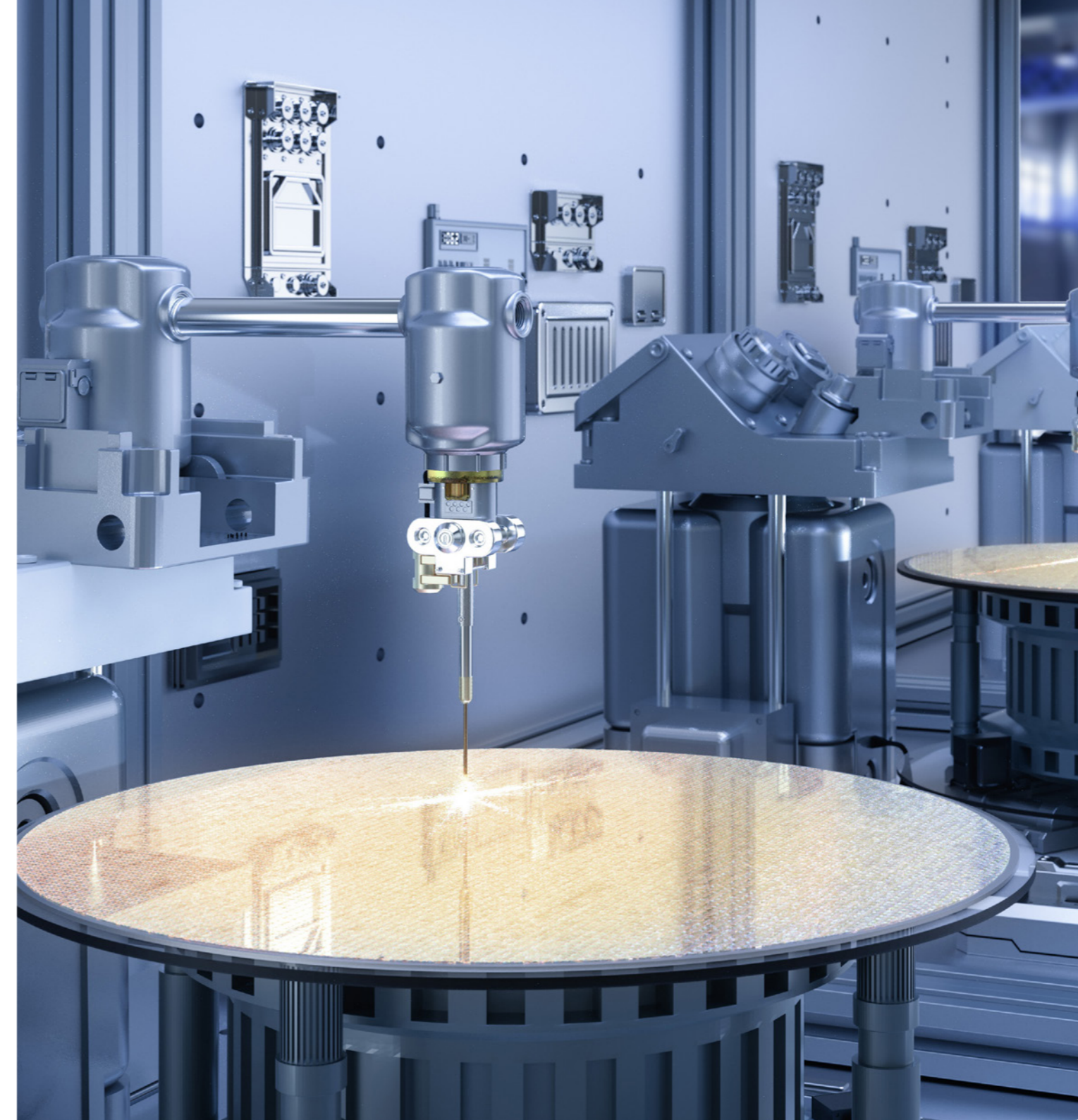
Examples of innovation in the field of energy ▾



^ Graphite bipolar plates for the use in fuel cells and energy storage



^ Vacuum dryer for battery cell production

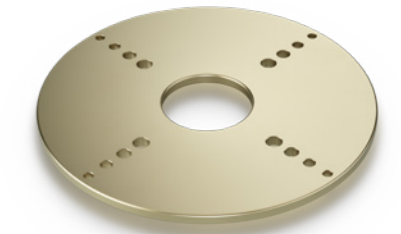


SEMI-CONDUCTORS

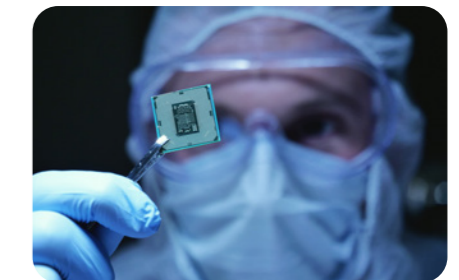
Maximum performance on smallest area

We are the world's leading supplier of silicon carbide-coated graphite, quartz, ceramic and silicon consumables, and related services for the microelectronics industry. We are also an innovative partner for chip production when it comes to contamination control and cleanroom technology.

Examples of innovation in the semiconductor sector ▾



^ Tantalum carbide technology for power electronics



^ Highest purity for contamination-free chip production

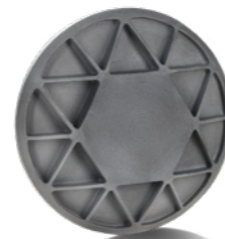


AEROSPACE

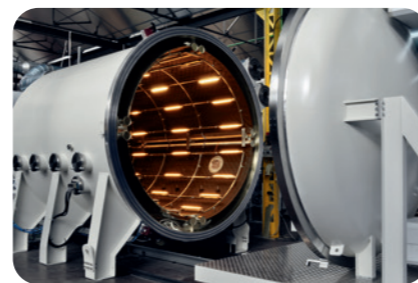
Take off with more power, safety and efficiency

Above the clouds and in space, conventional materials reach their limits. Our high-strength lightweight components made of carbon, glass or oxide fiber composites as well as high-performance ceramics set new standards here. We ensure greater safety with our expertise in cleanroom systems, thermal engineering and environmental simulation.

Examples of innovation in the field of aerospace ▾



^ 3D-printed mirror for optical systems in satellites



^ Temperature vacuum chambers for testing of space equipment



ELECTRICAL INDUSTRY & IT

Pushing technical boundaries

The car as supercomputer, IoT, wearables, 3D printing - the future is becoming digital. As specialist for environmental simulation, air-conditioning and thermal technology and ultrasonic metal welding systems, we ensure the optimal production of reliable electronic components as well as the economical and safe operation of data centres.

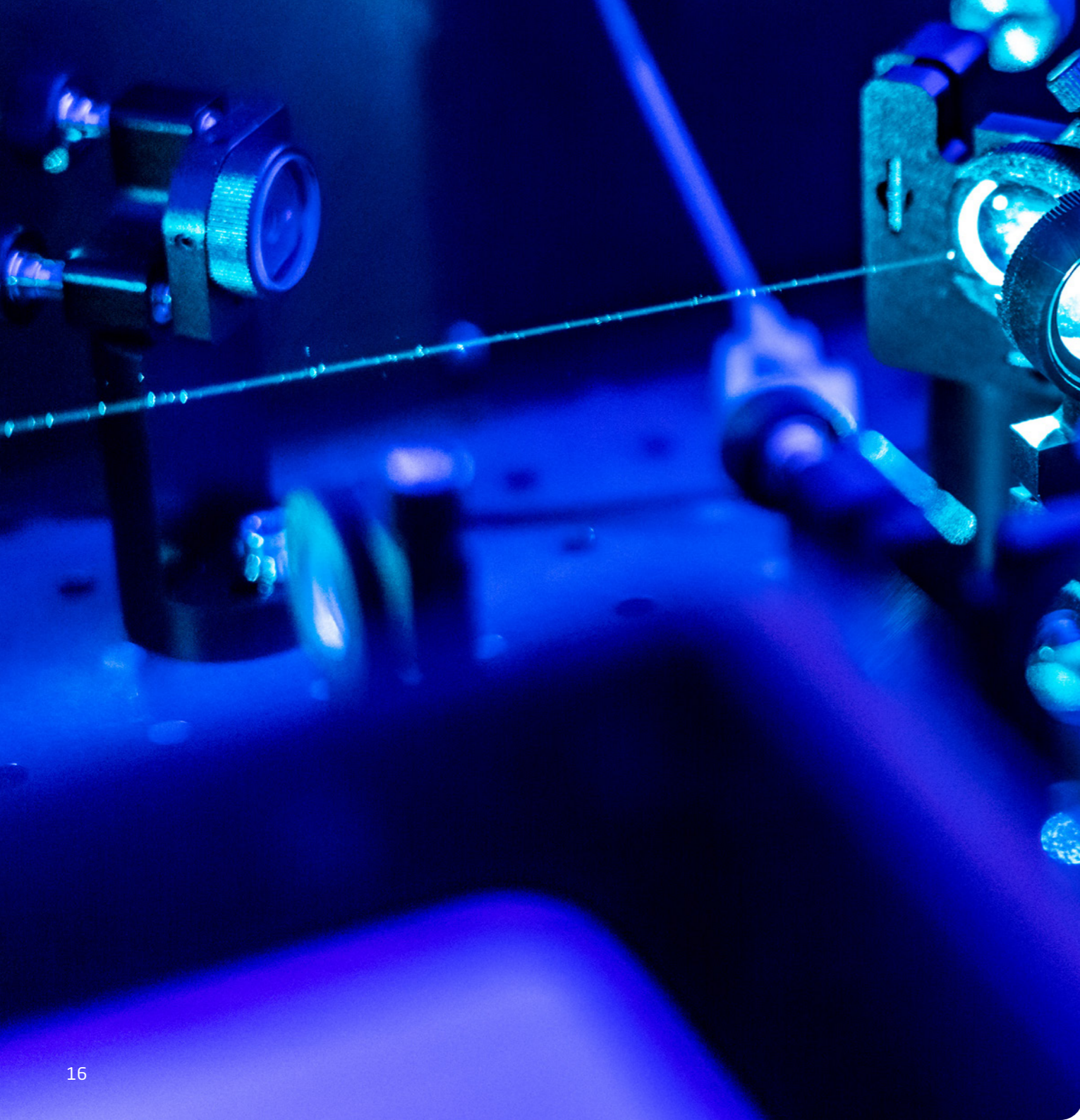
Examples of innovation in the electrical industry & IT ▾



^ Standard IGBT power module for the power electronics



^ CoolW@ll for the energy-efficient air conditioning of data centres



OPTICAL INDUSTRY

With a view to the future

We offer the world's most comprehensive product range for optical machines for grinding, measuring and coating spectacle lenses, laser and camera optics. We are also at home in the field of laser micromachining thanks to our specialists for ultra-short pulse laser technology from Pulsar Photonics.

Examples of innovation in the optical industry ▾



^ Patented correction technology for optical surfaces such as camera lenses



^ Automated continuous furnace for the optics industry

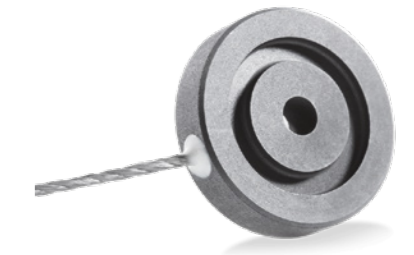


LIFE SCIENCE

Protecting life holistically

The purer, the safer - this applies to many applications in this field. Whether ultra-pure materials, air hygiene and clean air systems, clean rooms or endoscope optics - together with our customers from the pharmaceutical, medical and analytical technology sectors, we work to protect and improve life.

Examples of innovation in the field of life science ▾



^ Dialysis measuring cells for sophisticated measuring equipment



^ Climate chamber with isolator technology for handling with highly potent active substances



OUR BUSINESS UNITS IN THE AREA

MATERIALS ENGINEERING

INDUSTRY

Leading industry solutions in the areas of mechanical, thermal and electrical carbon - this is what our components made of carbon, graphite, carbon fibre reinforced carbon and silicon carbide stand for. With our graphite bipolar plates, for example, we supply a key component for fuel cells that is already proving its worth today. Seal rings, slide bearings and pump components, carbon brushes for household appliances or wind turbines as well as components for heat treatment, the production of semiconductors or in the analysis technology are also part of our range of services.

TRANSIT SYSTEMS

Transmitting, charging and grounding - Transit Systems stands for innovative solutions around railway applications and electric vehicles. The current collectors, third-rail systems and collector strips from Schunk are technological pioneers worldwide in power transmission for rail transport. And with Smart Charging, we ensure emission-free travel for electrically powered buses in public transport. Our customers are technologically ahead.

TECHNICAL CERAMICS

IntrinSiC®, the 3D printing process from Schunk Technical Ceramics, is used to additively manufacture mechanical engineering components made of silicon carbide in complex shapes, high quality and very large dimensions. We are also the innovative specialist for ceramic materials and components made of silicon carbide and aluminium oxide - for heat process technology, furnace and plant construction, process engineering and ballistic protection.

SINTER METALS

With decades of experience in powder metallurgy, we are reliable technology and development partners for the production of sintered metal parts - both in the axial pressing technique and in metal injection moulding (MIM). Our sintered metal components are mainly used in the automotive industry, where they bring speed and safety to the road at the same time.

MICROELECTRONICS

Our experts have developed deep application knowledge, enabling us to achieve the highest quality standards for the semiconductor, LED, silicon and solar wafer industries. We are a long-standing supplier of SiC-coated graphite susceptors and quartz products for the semiconductor industry in the OEM and aftermarket sectors. In addition, we provide services such as refurbishment and repairs that help optimize operating costs.

MOBILITY CARBON

In the fast lane with innovative strength - as a component and development partner to the automotive industry, we provide mobility with components for power transmission and with tribologically highly resilient slide bearing and sealing elements made of carbon graphite, graphite and silicon carbide. With several hundred million carbon brushes per year in electric motors for starters, fans, petrol pumps and window regulators, we are the global leader.

In the business units of materials technology, we bundle our expertise in order to be able to optimally design each of our carbon and ceramic materials to the requirements of our customers as a full range supplier with our own development and production. Our technology spectrum includes in-depth materials know-how in carbon, ceramics, quartz and sintered metal, materials processing for the precise design of material properties, state-of-the-art shaping technologies and a comprehensive range of surface treatments.



OUR BUSINESS UNITS IN THE AREA MACHINE DESIGN

ENVIRONMENTAL SIMULATION

Environmental simulation systems from the market leader – with our solutions, the suitability for use of equipment and products can be tested under the most adverse conditions. Whether temperature, climate, vibration, corrosion, emission, altitude, pressure or combined stress testing: we have the right system in the right size – from standard models to customised, process-integrated systems. Our devices set standards in terms of equipment, performance and design and stand for precise test results and high reproducibility.

AIR SOLUTIONS

A passion for climate – with our products and services we solve even the most challenging tasks in climate, clean room and pharmaceutical technology. Whether, for example, the reliable cooling of servers, a turnkey clean room including monitoring, solutions for the highest air hygiene in medical rooms or technically sophisticated clean air and containment systems – we offer maximum customer benefit through technological expertise and a comprehensive range of systems.

Our mechanical engineering solutions are used around the globe in research and development as well as in the production and quality assurance of numerous products. In our business units, we develop system solutions and components for all applications in environmental simulation, air conditioning technology, ultrasonic welding technology and photonics. We support our customers from the initial consultation through implementation and commissioning to after-sales service.

SONOSYSTEMS

Ultrasonic metal welding ensures permanent, strong and metallurgically pure joints in a fraction of a second. We have gained a major technological lead in this field and are the world's leading specialists. In addition to our standard programme, we offer a modular system concept that allows our systems to be integrated into complex assembly lines. The product spectrum ranges from welding systems for the automotive industry to complex special systems for the solar, electronics and semiconductor industries as well as for the production of batteries.

OPTOTECH

Innovation and technical progress in view. In the circle of optics machine manufacturers, OptoTech Optikmaschinen GmbH is considered one of the technological and process engineering world market leaders. The world's most comprehensive product range serves all production areas from super-micro, micro and macro to plano optics and spectacle optics. OptoTech offers the complete production line from grinding, centring and polishing to measuring and the matching coating and automation solution.

WE PROMOTE CAREERS

Bring your talents, your personality and your commitment to the Schunk Group. In return, we provide you with an innovative work environment, individual development opportunities and a variety of offers to help you balance family and career. Whether in technical, manufacturing or commercial area, whether you are a specialist, manager or a young professional, whether you a dual study program, apprenticeship or internship – become part of a strong team.



APPRENTICES

You are planning your entry into professional life, but are still unsure which path is right for you? Whether it's an internship, apprenticeship or dual study program – with us you can get a taste of the job or learn your dream job directly. We are represented at numerous trade fairs and events – feel free to contact us directly, we look forward to getting to know you.

CAREER STARTERS

International perspectives and exciting challenges right from the start – this is what awaits you as a career starter at Schunk. Because just because you are new to the job does not mean for us that you cannot yet work independently in your area of responsibility. Quite the opposite! We have a lot of confidence in you and will give you a great deal of responsibility.

STUDENTS

Whether it's an internship, a holiday job, a student job or a thesis – we offer you a wide range of opportunities to get to know the professional world while you're still studying. And always with intensive personal support on site. With us you can valuable experience and make your first contacts for your future career.

PROFESSIONALLY EXPERIENCED

As a skilled worker or academic, you have already gained experience in your professional field. We offer you attractive prospects to further develop your career. Take advantage of our wide range of qualification and further training opportunities and look forward to demanding tasks and exciting challenges.



We offer you numerous benefits and location. Among others:



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