SCHOTT is a leading international technology group in the areas of specialty glass and glass-ceramics. With more than 130 years of outstanding development, materials and technology expertise we offer a broad portfolio of high-quality products and intelligent solutions that contribute to our customers’ success.

Our true passion for glass is sparked by imagination and fueled by expertise. Whatever you envision, we will find a way to realize it. We reinvent glass in all its numerous properties. We can bend it, roll it up and off, combine it with metal, light it up, make it round, turn it into glass powder or make it ultra-thin. SCHOTT creates solutions that bring unique products and novel applications to life – “glass made of ideas”.

The memorial next to the Atocha station in Madrid, Spain: An elliptical cylinder that is made solely of highly transparent and temperature-resistant borosilicate glass blocks from SCHOTT conveys the idea of preserving an intangible moment and creates a translucent space for reflection.
A team of experts providing innovations you can rely on.

The chemistry was right in every sense when glass chemist Otto Schott teamed up with physicist Ernst Abbe and mechanic Carl Zeiss. In 1884, Otto Schott was the first to develop and apply scientifically-based methods to glass making, a revolutionary concept that enabled him to develop completely new optical and technical glasses. He achieved matchless quality levels in glass manufacturing and enhanced the design of new glasses, such as the now well-known borosilicate glass, for groundbreaking solutions.

Today, SCHOTT stands for unique competence in speciality glass and glass ceramics. We have continuously expanded our scope and expertise in technologies, applications and markets. As an international group, we team up experts from various fields to develop innovative solutions. We transfer knowledge across disciplines, between countries and from research to industry. This enables us to cater to the needs of our customers and develop expanding solutions for the most demanding markets. And by supplying not only specialized products and services, but also over 130 years of knowledge and experience, we truly stand for a high level of reliability and confidence.
Optics
Setting the optical focus to open new perspectives.

Today, optics enables fascinating new possibilities within many professional applications – from new 3D cinema projectors to microscopes, from ultra-sharp smartphone cameras to large solar telescopes or from handy binoculars to large-scale devices for the production of microchips. In order to meet the challenges of the market, all of our optical products rely on two essentials: Precision & Quality.

SCHOTT optical components and glasses set the standard in numerous industries and are vital contributions to high-performance value chains. Besides supplying more than 120 optical glass types, we apply unique production methods and processes along the entire value chain in order to deliver customized products and the highest quality optical components. While our comprehensive portfolio of materials, components, filters and specialty glasses have made us an “Excellent Partner in Optics” for numerous companies, institutions and universities, our extensive experience, available data, our renowned comprehensive support and service and leading technical expertise have made SCHOTT unique in the world of optics.

SCHOTT solutions Optics
- Over 120 optical glass types
- Optical components (lenses, prisms, substrates, …)
- ZERODUR® zero expansion glass ceramic
- The thinnest glass types down to 25 micrometers
- Special materials (Laser Glass, IR Materials, Sapphire, …)
- Customized melting and processing
- International sales and application support
Architecture

Giving the freedom to design to those who create living spaces.

How will we be living, working and shopping in the future? The goals of environmental protection, energy conservation and improved resource management are set. In addition, buildings and furnishings need to offer an excellent cost efficiency along their whole lifecycle as well as respond to demographic change. Above all, architects and designers are tasked with giving living spaces ever more imaginative and inspiring physical shapes and forms than ever before.

Materializing visionary concepts in glass is our mission. With its special architectural glasses, SCHOTT is prepared to tackle the creative challenges of architects and designers. Whether giving an edge to office environments, fashioning sublime shopping spaces or creating museums and monuments – SCHOTT provides creative engineers with a multitude of products, allowing for multifunctional and innovative solutions in interior and exterior design.

SCHOTT solutions Architecture

- Decorative, colored glasses for internal and external design
- Anti-reflective glass for facades, showcases and art glazing
- Special glass for restoration
- PYRAN® fire resistant glazing
- Radiation shielding glass for safety in hospitals
- CONTURAX® Pro non-round glass tubes for fascinating interior decoration
- Consulting on glass-related challenges

Photo: Nic Lehoux
Never before has humanity had access to life-saving medications to the extent that we do today. Yet, at the same time, the pharmaceutical industry has to deal with a balancing act: shrinking budgets, tumbling patents and increasing competition – while trends like self-administering are gaining momentum and new, highly sensitive agents are constantly posing new challenges. Times like these, which warrant end-to-end quality and utmost security along the entire delivery chain, require a reliable partner.

A partner like SCHOTT. We minimize risks right from the start with SCHOTT FIOLAX® glass tubing – the highly reliable brand of tubing for pharmaceutical packaging, with a proven track record of over 100 years. For primary pharmaceutical packaging, such as syringes, vials, ampoules and cartridges, our exceptional material know-how, recognized quality standards and our truly global supply network deliver the reliability and security to meet our customers’ most demanding requirements. With our innovation capabilities in product, processing and service, we strongly support the pharmaceutical industry in meeting new challenges.
The home appliance market is changing at an impressive pace. Consumers are looking for innovative brands that offer new trends in design, high energy efficiency and individualization. In such a dynamic market, flexibility is key. Flexibility in supply and in adjusting to market trends.

This is where SCHOTT comes in. With decades of experience, we are the innovation leader in glass and glass ceramic solutions for home appliances. Our networked production sites ensure global capacities and capabilities, as well as in-depth local knowledge and support. SCHOTT solutions are essential, wherever extreme heat or cold is involved: CERAN® glass ceramic cooktop panels have found their way into millions of kitchens around the world. Together with oven door glasses and matching control panels, glass and glass ceramic tops for gas hobs, shelves and decorative front panels for refrigerators, our products are setting standards in design and function. And SCHOTT Termofrost® glass door systems for commercial refrigerators and freezers display chilled and frozen food at maximum visibility with low energy consumption.

SCHOTT solutions Home Appliances

- CERAN® glass ceramic cooktop panels
- BOROFLOAT® 33 borosilicate glass for oven panels and countless other uses
- NEXTREMA™ glass ceramics for inner linings of appliances
- SCHOTT Flat Glass solutions for ovens, refrigerators, and other applications
- SCHOTT Termofrost® glass door systems for commercial refrigerators and freezers
The gift of warmth turns houses into homes.

Despite increasing urbanization, the future way of living will by no means be grey. By making use of technological advances that allow for more efficiency and flexibility, the trend is clearly moving towards green concepts. Green concepts nurture a more sustainable lifestyle that integrates nature and people. Our future habitat is an individually designed open space in which we live, work and relax – for example, in front of a cozy fireplace.

Heating with wood is environmentally friendly, CO2 neutral and lowers heating costs. Especially in green buildings that are well insulated and highly energy-efficient, a stove is considered one of the best ways to provide additional warmth when needed. However, to achieve maximum efficiency, eco-friendliness and safety, a viewing panel is required. With its extremely heat-resistant glass ceramic ROBAX®, SCHOTT is a leading manufacturer of glass ceramic panels for fireplaces. Produced in a wide variety of shapes and sizes, as well as with decorations or functional coatings, ROBAX® enables stove manufacturers to meet nearly any customer’s wish. It allows users to see the fire clearly and get up close to it while remaining completely protected from flying sparks or fumes. SCHOTT ROBAX® glass ceramic panels provide a warm and safe feeling every day.

SCHOTT solutions Fireplace Market
• ROBAX® transparent glass ceramic panels for fireplaces and stoves
• ROBAX® Magic and Ambience for eye-catching interior and exterior stove coverings
• Decorative, heat-resistant prints and functional coatings (heat-reflective coatings – ROBAX® Energy Plus, ROBAX® Mirror or ROBAX® Anti-Reflective)
Digitization is significantly changing the communication landscape. The growing demand to process and transmit ever increasing data volumes at ever higher speeds also raises the need for a more powerful technical infrastructure. Tomorrow’s high-speed data and telecommunication components will be more complex, while being smaller and more reliable.

SCHOTT’s hermetically sealed housings reliably protect highly sensitive opto-electronic components from humidity, temperature fluctuations and other physical or chemical effects. We are a leading global supplier offering the complete range of hermetic sealing technologies, namely glass-to-metal, ceramic-to-metal as well as full ceramic seals. Our contributions to the digital world do not end there. SCHOTT fiber optics are vital assets in datacom systems. We also supply glass wafers and substrates for sensors or MEMS as well as special-purpose flat glass for digital projections.

SCHOTT solutions Electronics

- TO PLUS® headers for high frequency data transmission
- SCHOTT CerTMS® ceramic-to-metal packages
- NEXTREMA™ glass ceramics for semiconductor production
- Glass-to-metal sealed housings and feedthroughs
- Transistor Outline (TO) headers and caps
- Microelectronic packages
- Wafers & substrates for MEMS & sensors
- Fiber optics for datacom systems
- Customized development
Automotive

Electrifying mobility by driving safety, efficiency and design.

Personal mobility is an individual freedom for which more and more people around the globe strive. That’s why safety, fuel efficiency and environmental friendliness are increasingly being enhanced by electronic controls and datacom solutions that allow the driver, car and environment to interconnect. Although cars are becoming smarter, the driving experience remains highly emotional. It’s comfort and design that make the difference.

SCHOTT makes sure that crucial electronic components always work properly. Airbag ignitors and seatbelt pretensioners, as well as sensors and controls, rely on our hermetically sealed housings and special glass substrates. We provide glass tubing for LED and halogen lights, and our flexible fiber optics allow high-speed data transfer as well as unique interior and exterior lighting solutions. SCHOTT’s products protect and guide drivers on their way while expanding design horizons and passenger comfort.

SCHOTT solutions Automotive

- Interior and exterior lighting concepts
- LED & fiber optics components
- Glass tubes for halogen lamps for headlights
- Fiber optics for onboard datacom (MOST)
- Hermetic housings and feedthroughs for automotive electronics
- Flat and cover glass for digital projection, instrumentation and navigation
- Special glass substrates for MEMS, wafers, sensors and more
Cover and touch technology has created a rapidly growing market characterized by fast-paced product developments and innovations. The design and performance of tomorrow’s smartphones, tablet PCs, notebooks, navigation systems and large format displays in public places will no doubt be very different from those of today.

SCHOTT is uniquely positioned to offer its customers a complete range of specialty glass solutions for Cover & Touch applications: Xensation® for touch screen devices, as well as protective and ruggedized light-weight glazing solutions, CONTURAN® DARO anti-reflective glass with an effective coating against fingerprints for large format touch applications such as displays in public spaces, as well as ultra-thin glass as thin as 25 microns, which is very flexible and will allow for development of the flexible electronics of the future. We keep up with the latest trends to speed up time-to-market, and our products and technologies are designed to accommodate the performance requirements, manufacturing processes and infrastructure of our customers. With a global network of experts operating in all core markets, including a rapidly growing presence in Asia, SCHOTT is able to provide these products and services in close proximity to its customers.
Airlines are bridging long distances for more and more people and goods while facing increasing global competition. To reduce transportation cost, the aviation industry is developing new concepts for lightweight and energy-efficient planes. However, no concessions are being made when it comes to safety. In addition, individual cabin designs that offer high levels of comfort are gaining in importance because only perfect light creates a truly perfect atmosphere.

Our innovative and sophisticated lighting solutions create very special lighting moods. Whether it’s the complete cabin lighting, impressive reading lights, contour lighting or simply atmospheric ambient lighting, they can even be matched to suit each other. Furthermore, panels and displays from SCHOTT allow for privacy or infotainment, depending on the needs. These are design elements that offer clear differentiation possibilities as in the area of lighting. SCHOTT enables safe piloting with its anti-reflective coated glass and optical filter glasses used for cockpit instrumentation. Gyroscopes made of ZERODUR® zero expansion glass-ceramic precisely measure the 3D position of the aircraft, and our hermetically sealed housings ensure that electronic devices and sensors always function properly even in harsh environments. One thing runs through all of our contributions: The desire to help our customers and business partners make a difference.
Crystal clear progress – turning light into matter.

The growing segment of plant engineering can be characterized by continuous developments and increasing individual demands on both materials and know-how in different areas such as ozone generation and flue gas desulfurization, for example. New areas of application, such as modern systems for cultivating algae, so-called photobioreactors for food and feed, cosmetics, fuel and special chemicals are all excellent examples of the unique requirements of an emerging industry.

SCHOTT contributes to sustainable photobioreactors by providing environmentally friendly and long-lasting products to the algae industry. A wide range of dimensions and variable lengths of glass tubes and bows for closed algae growth systems help to optimize biomass quality for high-value products. High geometrical accuracy and extremely durable optical properties allow optimum productivity and low maintenance requirements thanks to ease of cleaning. Long lifetimes, corrosion resistance, chemical inertness and fire resistance are additional features that are greatly appreciated in the field of engineered systems and plants. Our longstanding experience in the field of glass and its refinement allows us to meet industry requirements – today and tomorrow.

SCHOTT solutions Industry and Environmental Technology

• DURAN® borosilicate glass tubing
• AR-GLAS® soda-lime glass tubing
Life Sciences
Brightening the outlook for health and beauty.

By taking a very careful look, Life Sciences helps humanity in understanding and overcoming diseases. While an aging population in developed countries poses new challenges to the healthcare system, people in emerging markets are increasingly gaining better access to medical services. Improved diagnostics, new pharmaceutical agents and innovative devices for advanced medical and cosmetic treatments are being developed. Many of these advances clearly call for high purity glass.

When it comes to changing for the better in the healthcare industry, SCHOTT is able to draw on its widely diversified portfolio – ranging from tubing for laboratory glassware and primary pharmaceutical packaging to radiation shielding glass and medical imaging and lighting solutions based on optical glasses and fibers. Presumably, far more than 100 million people rely on dental composite fillings that owe their toothlike natural aesthetics and stability to SCHOTT’s dental glass powder. And in cosmetics, our bioactive glass powder helps to remineralize and smoothen the appearance of skin and nails. Our expertise and experience enable us to develop and customize highly reliable solutions for a better life – in stable quality and in full compliance with all standards and regulations.

SCHOTT solutions Life Sciences
- Puravis® eco-friendly glass optical fibers
- SCHOTT® IllumaMed lighting solutions for hospitals
- Bonded faceplates and tapers for medical imaging solutions
- Lenses, prisms, filters, slides and covers for microscopes and medical devices
- NEXTERION® coated and uncoated microarray slides
- DURAN® tubing for laboratory apparatus
- Radiation shielding and fire protective glass for medical facilities
- Glass powders for reliable dental fillings
- Vitryxx® bioactive glass powder for use in cosmetics
Defense

We serve to protect.
By land. By air. By sea.

The top priority within the military community remains mission readiness and effectiveness to ensure the greatest safety for troops. That’s why the defense industry is striving to deliver innovative solutions that allow the military to retain its edge in combat – in the most unexpected ways.

For more than 40 years, SCHOTT has been a high-tech component supplier to the defense industry, helping to improve the reliability and effectiveness of military equipment for soldiers. Advanced optical solutions are crucial components in cutting-edge daylight and infrared surveillance systems. Our transparent armor materials and window systems deliver superior ballistic performance that protects military personnel in the most extreme conditions. SCHOTT glass- and ceramic-to-metal seals, feedthroughs and housings protect vital electronics and data communication systems. And our fiber optic imaging components and sub-assemblies, coupled with our enhanced LED lighting capabilities, enable the defense industry to develop smaller, lighter and more effective night vision goggles and display devices.

SCHOTT solutions Defense

- RESISTAN™ transparent armor window systems
- ZERODUR® zero expansion glass ceramic for telescope mirror substrates and gyroscope bodies
- Optical glasses, laser glass, radiation shielding glass
- IR materials
- Glass and glass ceramic materials
- Electronic packaging
- Fused and flexible fiber optic components and sub-assemblies
- Remote imaging and coupling components for night vision and camera systems
Customer Proximity

Part of your team. For better, for the best.

At SCHOTT, proximity is not only reflected by our local market presence. Rather, it is a mindset that drives us to identify new trends in technology and lifestyle, scout the needs of our customer’s customers and team up with our partners to discuss probable scenarios and possible solutions – often far before demand arises.

We are at your side to challenge and improve technological concepts as a sparring partner. As a co-developer, we engineer the most suitable solutions for your product and enable you to cater to various customer needs in markets around the globe – reliably, flexibly and always in top quality. We bring in our expertise and experience from sourcing, manufacturing and marketing products around the world. We coach and train your employees and business partners and offer application consulting and assistance with specialists who know your sector and speak your language. Being a reliable partner while helping you amplify your own reputation for quality is our comprehensive definition of proximity.
A passion for ideas to set future standards.

“Glass made of ideas” succinctly expresses what SCHOTT stands for. Since the company’s founding in 1884, it has been our mission to develop new materials, components and processes in order to mold visionary ideas into products. Our passion for new ideas characterizes the way we work with one another, with our customers and our partners. It is reflected in our technical sales and services and even more so in our large research team.

At SCHOTT, more than 500 highly qualified researchers and development engineers exchange their knowledge on materials, melting and processing technology, coatings and analytical measurement. This gives us a leading edge over the global competition: SCHOTT holds more than 3,000 patents worldwide and generates more than 30 percent of its revenues with new products. We established three of the world’s most advanced centers for glass research in Germany (Mainz), China (Suzhou) and the USA (Duryea, PA). Together with our partners and customers in many different industries, these centers have become hot spots for pioneering new solutions and have garnered us several prestigious innovation awards.
Quality Standards

When it comes to quality, we don’t compromise.

Quality is part of SCHOTT’s DNA. We value excellence along the entire production chain, beginning from the careful selection of high purity raw materials to the protective packaging and reliable delivery of our products. Throughout our state-of-the-art manufacturing processes, every step is diligently monitored and their results extensively assessed. This enables us to learn, improve and raise the bar even further above the norm.

To us, quality management is not so much about maintaining international standards or good manufacturing principles. It is a question of global leadership. That’s why we test our products to the extreme: We break them, scold them with acid, scratch them, take them apart and put them through the stress of heavy use. Our own quality levels generally outclass the demands of any legal standard or regulation. That’s why SCHOTT products and solutions easily pass all independent tests and are accordingly certified for the world’s most demanding markets.
Corporate Responsibility

Acting sustainably – for everyone’s benefit.

Taking a responsible approach has always been at the core of SCHOTT’s corporate culture. This commitment originated with our founders, Otto Schott and Ernst Abbe, who stipulated the company’s responsibility for employees and family, science and society in the company’s early days. It is a commitment to providing solutions to problems in society as well as to corporate challenges. To us, this is a matter of conviction.

Respecting people, guaranteeing their safety and health, and protecting the environment are top-priority objectives at SCHOTT. That’s why we introduced IMSU/EHS – our Integrated Management System for Safety, Security, Health and Environment. By improving our production processes, like we did, for example, for glass ceramic cooktop panels, SCHOTT was able to eliminate the use of 180 tons of arsenic and antimony per year – and earned the prestigious German Innovation Award. In order to support further advancements in glass technology, the Otto Schott Research Award, which is awarded by Ernst Abbe Fund, recognizes leading scientists from around the world. And with our activities for children and young adults in music and athletics, we support the development of a sense of social and individual responsibility. Acting in a sustainable manner not only benefits our customers, our employees and society as a whole, but it also helps us manage risks – and preserves entrepreneurial freedom.
Corporate Responsibility

Investing in education for a sustainable future.

SCHOTT North America, Inc. is proud to be a part of the VISION House® in INNOVENTIONS presented by Green Builder® Media. This green home exhibit is located in INNOVENTIONS at EPCOT® at the Walt Disney World® Resort. We believe that consumers should have a sustainable option when they choose products that go into their home.

Eco-friendly products from SCHOTT are on display in the Vision House. These include environmentally friendly CERAN® glass ceramic cooktop panels, which are manufactured without using the heavy metals arsenic and antimony. ROBAX® glass ceramic viewing panels are an integral part of an environmentally-friendly appliance and allow fuel to be burned more efficiently, delivering higher heat output which leads to virtually no fine dust particles emitted into the air. By participating in this important exhibit, we are expressing our commitment to the industry, the home builder, homeowners and families – for generations to come.

For more information, please visit: www.us.schott.com/visionhouse
Global Presence

Our footprint is global. And yet truly local.

The SCHOTT network spans the globe for your convenience, flexibility and a secure supply. Over half a century ago, we established our first manufacturing site outside of Germany. Today, you will find SCHOTT production and distribution sites in many countries on every continent. Wherever you are: SCHOTT is close by.

But an extensive address book isn’t everything. It’s the combination of a reliable global network and a strong local orientation that truly warrants customer proximity. This enables us to draw on world-leading expertise in technological, quality and business terms while profiting from an in-depth knowledge of regional markets. Our local specialists speak the language of our customers and business partners. They also understand local needs, allowing for excellent on-site expertise and instant service.