Input Systems
For more than 40 years, we have lead the way providing the European market with customized touch solutions. By using our supreme knowledge, skills and experience in capacitive technology, touchscreens, membrane switches, displays, electronics, housing systems and Industrial Graphics. SCHURTER develops the optimum solution in close cooperation with our customers and partners and is the partner of choice for many customers in highly demanding markets.

“We focus our innovation-driven system to customer-specific solutions for all types of input systems. Through our extensive knowledge in various fields of technology and client-focused project management, we deliver quality systems in all of our applications for complete customer satisfaction.”

Bruno Ochs, President of division Input Systems
Different production locations with own characteristics

SCHURTER’s technologies are developed and optimized in our competence centres at our worldwide production sites. Each site has particular core competences, from prototype production, small series production to high volume serial production. Benefit from the high professional competence and extensive know-how of SCHURTER specialists.
Fast market entry

SCHURTER Input Systems is a leading company in customized touch solutions. To guarantee our customers the latest technologies and features we developed extensive know-how and expertise in our line of business. Customers rely on our knowledge and involve us in their product development at an early stage. After development we offer express prototypes, which benefit our customers due to the rapid process time and prompt involvement with marketing.

Our corporate added value

The high-quality products from SCHURTER, as well as the outstanding customer service, contribute to the success of our customers.
Highest quality standards

Customers expect the highest quality standards and they should. Customers rely on our deliveries for many years. Their needs include product quality, service performance, environmental conformity and risk management. All of this is included in our input system. SCHURTER Input Systems is also for this reason your partner of choice.

Qualification

We have our own laboratories (e.g. for conductive EMC tests). Therefore, most tests on customer’s products are carried out at SCHURTER premises.

Manufacturing services

In addition to the design of the Input System we provide excellent manufacturing services. SCHURTER is not only the designer of the input system but also the assembler of the complete front.
In a unique way, SCHURTER distinguishes itself by offering their customers a full service approach - from idea to series production.

This full service process consists of the following phases:

**Our Workflow**

1. **Customer requirements**
   At the moment customers start to develop a new piece of equipment for their market they require information about the input system device. Their latest equipment needs to meet the latest state of the art in technology and in user experience. For this they require an update of the possibilities. Where do they get this? At SCHURTER, where they expect to find the best knowledge available.

2. **Consultancy**
   Modern companies focus nowadays more on their own core business. Everything outside the core business can be found at specialists in their field. SCHURTER is specialist in input devices and is helping customers with a consultancy service to provide an optimum solution. Based on the wishes and requirements of the customer, SCHURTER can advise the best direction for the design of a new product.
Engineering

Based on the ideas of the engineers, SCHURTER develops a solution that perfectly fits into the complete design of the new equipment. For this SCHURTER will make a development proposal. This proposal includes all aspects to make the drawings, specifications and a prototype. Since the input device needs to fit perfectly into the rest of the design there is a regular meeting between the design teams of SCHURTER and the customer. Interfacing issues are worked out immediately to stay within the promised delivery date and to ensure the development phase is a success.

Prototyping

SCHURTER has a protoshop which gives our customers the possibility to receive prototypes in a short time. This service we even grant with our own manufactured, custom made PCAP sensors.

- Start measurements on the prototype
- Have a look and feel sample for the marketing department
- Start fitting tests with the other parts of the new equipment.

The following pre-series parts, manufactured with our serial infrastructure, will be used for qualification in our well-equipped qualification laboratories.

Serial Production

SCHURTER has 5 of its own factories in Europe and Asia for production of input systems. We invest in modern production facilities and infrastructure according to the needs of our customers. Based on aspects like volumes and required production facilities we choose the optimum production location. Our specialists for logistics, quality systems and production will adapt together with the customer the optimum system for the customer's needs. With this we optimize your supply chain to fit to your systems.
Our solutions

To provide you with the best touch solutions we have a wide range of technologies in-house. These technologies are state of the art solutions used in modern designs and equipment. All technologies are developed and optimized in our own production facilities. For every technology we have our own competence centres for the best design and prototyping.

Within the SCHURTER Input Systems Division we provide customized solutions. Every customized solution is based on one or a combination of the following technologies:

- Integrated solutions
- Touchscreen solutions
Our competences

SCHURTER is your competent partner for the development and production of complete systems including touchscreen, housing, electronics and display. We offer a wide range of industrial displays for HMI integration, we manufacture our own customized PGAP sensors and have the in-house competence for optical bonding of displays.

Capacitive switch solutions
Membrane switches
Housing systems and Industrial Graphics
Integrated solutions

SCHURTER is your partner for the development and manufacture of complete systems including housing, electronics, display and input system. Many projects require a plug & play solution; herewith you benefit from a partner with the high-end facilities of SCHURTER. This gives you the opportunity to focus on your core business.

Our integrated systems are based on the following technologies:

- Resistive touchscreens
- Projected capacitive touchscreens
- Membrane switches
- Silicon keypads
- Capacitive switches, sliders and/or wheels
- Displays
- Embedded systems
- In-house EMS services including electronic designs
- Industrial Graphics
- Housings systems including design
- EMC services
- Components
We combine several technologies, e.g. PCAP, CapKeys, housing, electronics etc.

Examples of integrated solutions are:

- Complete HMI units
- Integrated embedded systems
- Front panels with displays
- Integrated housing
- Optical bonding of display and touchscreen
Touchscreen solutions

SCHURTER offers custom-made touchscreen solutions for the global market and has a wide standard range of resistive and PCAP touchscreens for integration into your application. Customized products are developed and produced at SCHURTER’s production sites, based on many years of expertise. We enable rapid market access through our prototype production. Protoshops provide an effective and timely supply of patterns in the development process.

PCAP touchscreens

The projected capacitive multi-touch technology behind printed glass allows easy input by touch. The production processes such as the automated laminating of touch sensors, bonding of glass sensors, optical bonding of displays and the printing of glasses as well as mechanical glass processing are done in-house. SCHURTER has a standard range of PCAP touch sensors from 3.5" to 24". Controllers from ATMEG, Microchip (PenMount) and EETI are available for optimal selection according to your requirements.
Together with our customers we create the optimum solution.

Resistive touchscreens

The resistive touchscreen technology is available to you as a mature, flexible and cost-effective input technology for industrial and medical applications. SCHURTER offers a wide range of standard sensors in 4-, 5- and 8-wire technology as well as customized sensors to meet application-specific requirements. For special applications and extended specifications, SCHURTER supplies special types of resistive touchscreen technology in various designs.
Capacitive switch solutions

Capacitive switching technology allows easy actuation by touch and is a common input technology that is increasingly used in the industry. The capacitive switching technology from SCHURTER allows the integration of buttons, sliders and wheels behind printed front glasses. The switching elements are adapted to the most diverse customer requirements and enable a free design with regard to form, colour and function.

The SCHURTER ClearCap technology offers capacitive sensor keys for easy integration behind glass, polycarbonate or polyester. The single-layer sensor film includes predefined touch panels in the display area. The transparency makes it possible to illuminate the control elements with LEDs in several colours.
“We produce fully functional fast available prototypes in-house.”

Metal over Cap (MoC) from SCHURTER is designed for use in harsh environments and is made of stainless steel or aluminium to provide a robust switch panel. MoC is the ideal solution for long-lasting buttons and keyboards without moving mechanical parts and a good alternative for the Piezo switch.
Membrane switches

SCHURTER has many years of experience in the design, manufacturing and marketing of high-quality membrane switches in the European market. Our membrane switches are distinguished by their reliability in all production processes and environmental conditions. Based on our outstanding expertise in technology, we can meet your customer-specific requirements, from the simple touch point to the complete solution, by creating a design of the highest quality and sophistication.

Graphic overlay

The design of the back-printed front panel determines the appearance of your product and reflects your brand image. For the overlay design of the SCHURTER membrane switches, a variety of base films, embossing, colours and coatings can be selected according to your requirements.
“We produce with a high grade of automation.”

Luminos

This multi-colour illuminated keyboard is a keyboard system with various design options in terms of shape, colour and multi-coloured lighting. The keyboard provides a precise and uniform illumination for the buttons, symbols or information fields in colours according to your individual requirements, and this in turn visualizes the device status.
Housing systems

In our own facility, the aluminium surface can be finished in several ways, including anodizing and chromating for EMC requirements which is a special solution from SCHURTER. Housing systems and front panels are made by using state of the art production processes. With these processes, your individual design can be implemented very quickly and cost-effectively with almost unlimited possibilities.

SCHURTER also offers housing systems and Industrial Graphics. SCHURTER produces aluminium housing systems and front plates in our own facilities, using the latest production methods. SCHURTER Industrial Graphics offers high-quality nameplates, identification plates, text logos and pictorial logos to identify your products.
Industrial Graphics

SCHURTER Industrial Graphics is specialized in high-quality nameplates, identification plates, text logos and pictorial logos. In this regard we use a variety of materials, colour combinations and production techniques to supply you with the optimum identification solution. Continuous focus on product development and innovation enables SCHURTER Industrial Graphics to give your products unique and sustainable added value. This added value stands for a high-quality image, an ability to stand out from the competition and first-class customer ratings.

“Guidance throughout the complete project life cycle period.”
Markets

- Industrial Equipment
- Medical Equipment
- Data & Communication
- Energy
- Aviation and Space Technology
- Automotive

leading intouchsolutions
Industrial Equipment

Control & Automation

The Control & Automation market requires quick responses to assist with fast market entry. SCHURTER has optimized the processes to help by means of quick responses and fast prototypes. We offer a variety of individual design and technology possibilities for your application, from the sensor to the housing, from electronics to plug & play solutions. As a leading supplier in the Control & Automation market, SCHURTER has several high-end production sites for the quantities you need. Each sales organization within SCHURTER Input Systems has access to the optimum competence centre for your specific applications and the production facility that offers the best value for money.

References:

Agriculture & Foresting

The applications in Agriculture & Foresting require special characteristics in regard to its control panels. The input systems must withstand extreme external influences and fulfil numerous ergonomic and functional requirements. The input systems from SCHURTER meet these specific requirements. For instance resistance to all kinds of weather influences, operability with gloves and functional safety under strong vibrations.

References:
Medical Equipment

Medical & Laboratory

Extensive experience regarding the requirements in medical technology is a must, in order to successfully implement new medical applications. Within SCHURTER Input Systems, we have specialists who can support you in the optimization process, thereby bringing success to your product design.

Input systems from SCHURTER stand out above others due to such features as high reliability, long lifetime, certified EMC compliance, easy cleaning and long-term availability. Thanks to ISO13485 our production facilities also meet the medical requirements.
SCHURTER offers individual input systems for the requirements of the Human Machine Interface solutions in building automation. Our touch solutions, membrane switches and capacitive solutions behind glass are used in building management, such as in access control systems, communication centres and alarm systems.

Input systems from SCHURTER - from single front panels to a complete Plug & Play HMI unit - meet the specific requirements such as long lifetimes, reliability and functionality as well as cost-efficient implementation.

References: