

EAO Machinery

Precise. Efficient and safe.

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We create innovations and have trust in the reliability of our machines. Since 1947, EAO Machinery has been ensuring that machines can be operated precisely and safely.

“My creation. My world.”
EAO creates possibilities.



No matter how varied machine requirements may be, the demands on them for operational reliability and precision are always the same.

EAO has many years of experience in developing and manufacturing HMI Components and Systems for both basic and complex industrial machinery.

When it comes to keeping people safe, we make no compromises. The increasing complexity of industrial machinery of every kind is leading to greater demands in terms of their operating safety. EAO is committed to ensuring that these demands are met in full.

We analyse technical requirements, operating environments, ergonomics and commercial specifications to ensure that users and technologies work together in perfect harmony. This results in interactive products and solutions of the highest quality that offer maximum functionality and optimum user-friendliness. Meticulous planning combined with high-quality testing and laboratory technology ensure a safe and ideal foundation for producing our reliable HMI Components and Systems for machinery applications in the industrial sector. A variety of certifications bear testimony to our expertise.

Decades of experience in the development and production of safe and precise HMI Components and Systems enable us to offer cross-industry solutions that provide optimum user-friendliness no matter what challenges they may face.

The Human Touch®

It's moments that matter. Behind each interaction lies a need, a story, a goal, a wish. Just as diverse as these moments are the operational requirements placed on machinery. It is only our complete understanding of human needs, environmental requirements and the technical functionality of machinery that allows us to develop innovative, intuitive and reliable HMI Components and Systems.

EAO – Your Expert Partner for Human Machine Interfaces

Control. *For every application.*

Regardless of the industrial demands placed on our HMI Components and Systems, reliability, longevity, intuitive operation and safety are always at the heart of our products and solutions. Our aim is to provide control over these processes and to afford machine operators the greatest possible level of protection at all times.

Operator Device

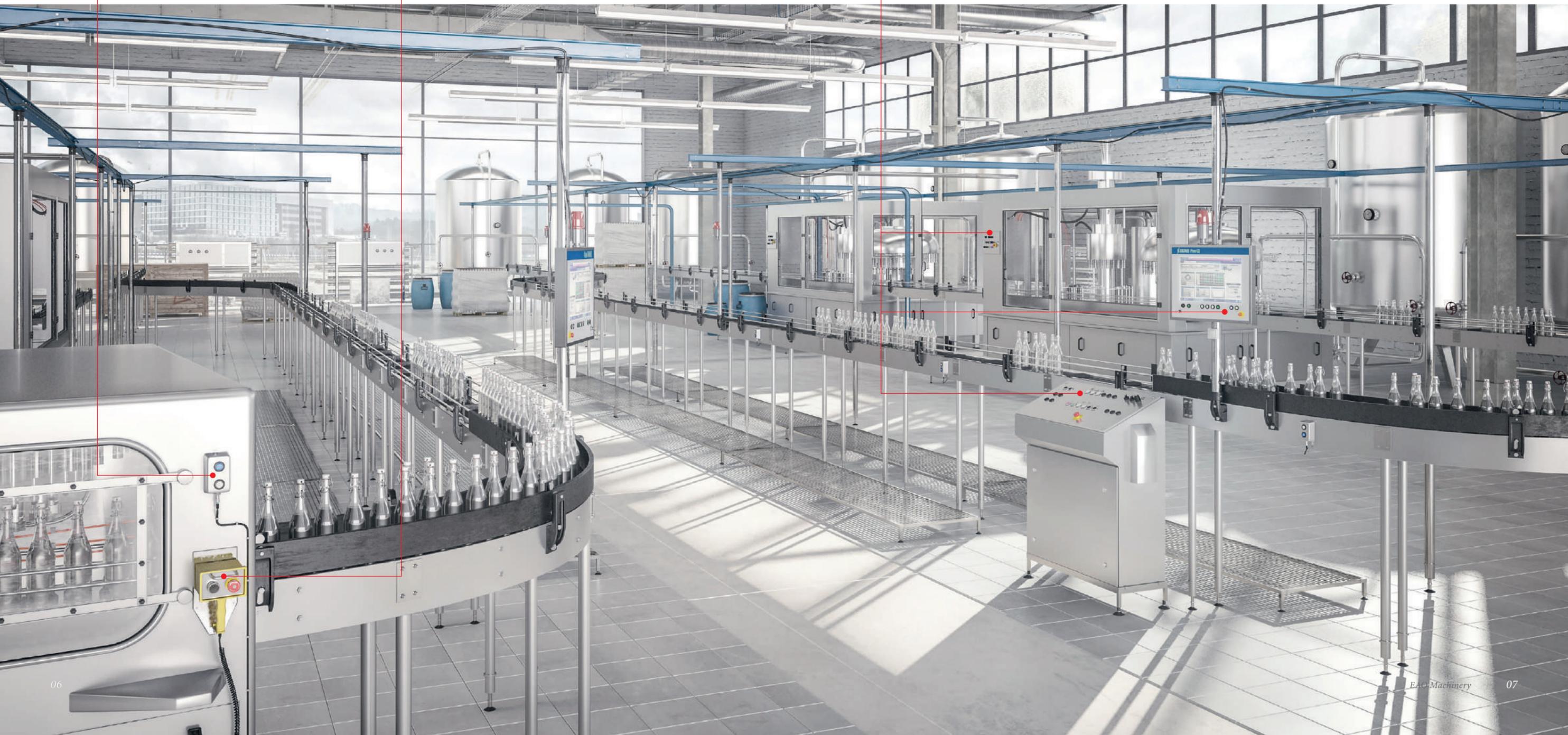
Actuators and indicators for controlling specific and basic machine functions.

Handheld Control Unit

HMI solutions for mobile control units.

Main Operator Panel

HMI Components and Systems for main control units for the overall control of machinery.





Reliable. *No matter how complex.*

Automation technology helps humans to take on a wide variety of tasks that require a very high degree of precision and tremendous speed. The processes involved and the demands placed on machine controls are often extremely complex.

The precision, speed and reliability of machinery are the key factors when it comes to efficient processes. Being able to operate machines reliably is an important prerequisite for safe performance.

The central control unit of any machine brings together all its different functions. As the control centre, the communication distances to the functions it steers must be kept as straightforward and intuitive as possible. The safety of the operator and the machine itself depends on efficient and safe controls. Here, it is vital to adjust the control unit as closely as possible to people's work processes in respect of all operating, control and monitoring functions.

EAO's HMI Components and Systems are geared towards meeting these fundamental requirements in terms of their design, tactile feedback and functionality in all situations. Thanks to our many years of experience in various sectors of industry, EAO products are always the best choice with regard to safety, intuitive operation and reliability, even under the most adverse conditions.

Find out more about our innovative HMI solutions on page 18 and 19.

Safety.

No matter what conditions.



Despite growing complexity, modern industrial design is geared towards safety, functionality and user-friendliness and is wholly focused on operator safety.

The reliable monitoring and control of work processes and the ability to intervene at once in case of emergency are fundamental prerequisites which must be met with electromechanical control units that provide appropriate tactile feedback.

Simple control applications are frequently located in the immediate process environment. Often separated from the central control unit, these applications are exposed to extreme environmental conditions. No matter how simple and compact the function may be, it still has to withstand the effects of heat, cold, humidity, dust, vibration, shock and chemicals. Maintaining functionality is critical to ensuring safety and the ability to exert direct and immediate control over the process.

Whether simple on-off function buttons or emergency switches, HMI Components from EAO are ideal for their specified use and have successfully proven themselves in a wide range of industries in respect of their design, reliability and longevity.

Find out more about our innovative HMI solutions on page 20 and 21.

Flexibility. *Control from every angle.*



The trend towards mobile communications is also gaining ground in modern industry. The advantages of monitoring the operation, control and functionality of machinery independent of location allow people to work with even more flexibility and efficiency.

Visual requirements, such as insight into processes, call for flexibility when it comes to controlling machinery. Mobile control devices allow the operator to choose the best position in any given situation, to monitor processes and to give the commands that the machine must carry out.

The demands placed on such handheld control devices can be greater than for built-in units. The environmental conditions in industrial settings require the utmost robustness and intuitive operation. HMI Components must not only withstand dirt and moisture, but also be intuitive to control.

Ergonomic yet attractive design, tactile feedback, logical component layout and operating comfort are just some of the advantages offered by EAO's HMI products and solutions.

Find out more about our innovative HMI solutions on page 22 and 23.

Adaptable.

Your application – our strength.



Our comprehensive programme of standard components coupled with our ability to adapt and customise our products enable us to provide individually tailored solutions for a broad range of applications.

EAO products and solutions provide front protection against moisture, coolants, oil and dirt and are resistant to shock, vibration, dust and extreme fluctuations in temperature.

With long service life in mind, we develop reliable high-quality operating concepts for machines that comply with IP, NEMA, IEC, ADA, ANSI and OSHA specifications. Multifunctional utilisation and ease of modification make our products economical and suitable for use virtually everywhere.

Our HMI Components and Systems meet the specifications of the world's leading plant manufacturers in the realms of machinery and industrial automation technology and are used successfully in a wide range of industries.

Applications

- Food and beverages
- Semiconductor and electronics production
- Packaging systems
- CNC milling, lathing, grinding and boring equipment
- Tobacco production and process control
- Industrial lifting and handling automation
- Pharmaceutical and chemical production and process control
- Cooling and ventilation equipment
- Textile production, including equipment for preparing, drying, spinning and weaving
- Plus many other applications

You too can benefit from our impressive portfolio, which offers you the ideal solution for every conceivable HMI application.

Variety and individuality. *In HMI Components.*



EAO develops and manufactures one of the world's largest ranges of industrial HMI products.

The precision of these products is based on our knowledge and passion. Only interface solutions created with scrupulous care meet our definition of innovation, intuition and reliability.

Impressive added value

Because EAO offers one of the most comprehensive ranges of equipment in the world, it is always possible to find the ideal product in respect of the following criteria:

- Electrical rating – the right specifications for every task
- Preferred actuation – the most appropriate type of switch
- Configuration and mounting requirements – style and layout
- Special requirements – illumination, symbols and approvals

HMI functions

Some of the functions that EAO offers for mechanical engineering applications are:

- Pushbuttons and illuminated pushbuttons
- Selector switches
- Indicators
- Emergency stop switches
- Buzzers
- Keylock switches

HMI features

By analysing our customers' requirements for specific applications, EAO's engineers are able to ensure the correct choice of HMI Components with ideal properties in terms of:

- Front protection
- Switch rating
- Certification
- Design
- Materials
- Terminal
- Mounting cut-out

Value Added Services

Our "Value Added Service" extends EAO's range of standard products by customising components to meet specific requirements with regard to features such as:

- Marking
- Illumination
- Mechanical or electronic characteristics
- Cables and connections

Our versatile, tried-and-tested HMIs offer both enormous benefits and outstanding quality.

Reliable. *Solutions for main operator panels.*



Central inspection, control and monitoring functions must be reliable, intuitive and safe.

Maintaining optimum speed, maximum precision and absolute safety, while meeting the most complex requirements: the main operator panel of modern machinery are control centres that must work intuitively and safely at all times.

HMI Functions

Machines perform functions that are initiated by human beings. EAO understands these functions and possesses in-depth knowledge of the processes behind the functions and the challenges they present for both human and machine.

Main operator panels for machinery must be able to handle start, stop, reset, selection, control and signal functions, as well as emergency stop and other general control functions.

EAO products provide all the functions that could conceivably be expected of a main operator panel:

- Pushbuttons and illuminated pushbuttons
- Double pushbuttons
- Indicators
- Emergency stop and stop switches
- Mushroom-head pushbuttons
- Keylock switches and ID keylock switches
- Selector switches
- Potentiometer
- Toggle sticks
- Buzzers
- Toggle switch

HMI Series

EAO's Series 14, 61, 71, 82 and 84 consist of aesthetically appealing products with optimised design. Top-quality materials, attractive illumination and markings, together with numerous other modifications guarantee not only maximum customisation but also optimum functionality.

The latest Series 45 once again sets new standards in terms of design, robustness, functionality, reliability and safety.

HMI Systems

To provide optimum benefit for its customers, EAO undertakes the planning, development and production of complete HMI Systems solutions.

For our partners in the mechanical engineering industry, this presents unique opportunities for intuitive main operator panels – completely scalable solutions ranging from single components up to fully customised plug-and-play systems.

HMI Systems solutions contain the front plate or a complete housing along with the HMI control devices, arranged in an ergonomically effective layout to ensure optimum machine operation.

Our extensive EAO service also comprises electrical wiring, including plug connectors, as well as interface and communication modules for efficient network integration.

Intuitive. *Solutions for operator devices.*



Operator devices in sophisticated industrial environments have to be intuitive above all else.

Simple operator devices that are located in the immediate process environment must perform key safety functions while maintaining full functionality.

HMI Functions

Operator devices for individual machine functions often have a straightforward design and are intuitive to operate. Whether distinct markings on pushbuttons or clear feedback features such as illumination, functions must always be appropriate for the environment in which they are used.

In order to perform separate machine functions, use is also made of HMIs that adjust values, speeds or intensities by means of a potentiometer drive.

HMI Series

The new Series 45 offers the ability to integrate machine interfaces easily and reliably into communications platforms located at a distance from the central control system.

Additionally, EAO offers a product range in the form of Series 84 that integrates smoothly into visually appealing solutions thanks to its exceptional design and functionality.

Our HMI operator devices are resistant to external influences, which makes them ideal for applications in the direct process environment.

HMI Systems

EAO undertakes the planning, development and production of complete HMI Systems solutions for decentralised operator devices. EAO customers benefit from our experience and solution expertise spanning more than 60 years and from the comprehensive EAO product portfolio, which enables every conceivable HMI requirement to be met with the highest standard of equipment.

Operator devices located some distance from the central control system are frequently linked to the central system via communications protocols. The integration of bus modules in the operator devices, which are usually enclosed, is a key aspect of this. It is also essential to ensure reliable and rapid signal transmission.

To eliminate any potential hazards, these operator devices offer reliability in their switching operations and are absolutely foolproof – even in harsh environments, at extreme temperatures or when exposed to liquids or chemicals.



Flexibility. *Solutions for Handheld Control Units.*

Handheld Control Units have to work everywhere, every time.

Decentralised operating functions are increasingly being controlled by Handheld Control Units. These present particular challenges for the HMI Systems used.

HMI Functions

Handheld Control Units are used to operate, monitor and control machinery and plant functions from a variety of positions.

Emergency stop switches, whose compact design enables them to be seamlessly adapted to the required ergonomic concept, together with labelled pushbuttons and illuminated pushbuttons enable process management to be kept flexible and mobile. Continuously adjustable potentiometer drives and selector switches provide important HMI functions for mobile control devices.

HMI Series

The low back panel depth of Series 84 products offers marked advantages for Handheld Control Units and enables device manufacturers to build slender and sleek designs. Series 84 is also a reliable choice for switching low voltages and currents.

EAO's Series 70 makes it possible to construct membrane keyboards and to switch low voltages and currents.

The very small dimensions of Series 61 make these products ideal for ensuring flexible interaction with machinery.

The Series 82 is the perfect choice when high demands are placed on design and robustness.

HMI Systems

EAO offers handheld HMI Systems solutions based on existing or entirely new housings which can be optimally integrated into machine communication systems. Many users also combine the touch panel with electromechanical switches for multitouch control.

HMI Systems for Handheld Control Units must be flexible, intuitive and reliable, able to withstand a wide variety of environments and influences and provide dimensions and back panel depths consistent with their function.

Modular.

Aesthetic and robust in use.



Innovative and comprehensive

Series 45

EAO's Series 45 unites an extremely broad range of machine operating functions with outstanding technical properties. Penetration by dust and liquids is prevented even under the most adverse conditions.

Robust industrial control system

Resistant to aggressive cleaning agents, oils, dyes and other chemical substances, the actuators and indicators of the new Series 45 work perfectly each and every time. Our HMIs literally keep their cool in the face of high humidity and extreme fluctuations in temperature. Functionality is preserved even when the control units are subjected to dust or water at high pressures (IP69K). Series 45 is ideal for use in the most adverse conditions.

High level of modularity

Their modular construction ensures that our HMI Components all operate smoothly with each other. They are straightforward to install and can also be integrated easily into decentralised systems.

Full functionality

Every conceivable HMI function can be performed by products from Series 45. Pushbuttons, double pushbuttons, illuminated pushbuttons, indicators, selector switches, keylock switches, ID keylock switches, toggle sticks, emergency stop switches and toggle switches are capable of handling all major functions.

Major benefits

- Comprehensive Series
- Easy to use, modular construction and rapid assembly without special tools
- Rugged in use; IP69K front protection and metal models
- Modern design thanks to flush mounting, attractive illumination and metallic or plastic appearance
- Low energy consumption thanks to LEDs
- Long service life (up to 10 million switching cycles)



Illuminated pushbuttons

Series 82

Series 82 offers pushbuttons for use in harsh environments that are both resistant to vandalism and visually attractive.

With their robust metal housings, these pushbuttons meet IK10 and IP67 specifications, making them ideal for use in mechanical engineering applications.

- Vandal resistant: impact resistant to IK10
- Front protection up to IP67
- Gold contacts for low-level switching
- Optional illumination and laser engraving
- Excellent tactile feedback
- Long service life (up to 1 million switching cycles)



Keylock switches

Series 71

Series 71 offers a unique modular approach for modern PCB technologies. Hallmarked by low back panel depth, rapid assembly and easy maintenance, this versatile series is an ideal solution with a modern appearance.

The combination of PCB-soldered contact blocks and the reliable twist- and lock-fixing mechanism offers easy assembly without the need for mounting studs.

- Unique PCB assembly
- Wealth of switching functions
- Modular design
- Flush mounting
- IP65 protection

Custom-tailored. For all applications.



Emergency stop switches

Various Series

EAO emergency stop switches with forced opening contacts (compliant with DIN EN ISO 13850 and EN 60204-1) are primarily used to ensure people's safety. They also contribute towards preventing damage to vehicles, machinery, equipment and control systems in the event of malfunctions. Emergency stop switches are always foolproof and can be easily identified by their red lens with yellow actuator or yellow protective shroud.

- Reliable switching and foolproof even in harsh environments
- Low back panel depth
- Large range of minimum and maximum switched currents
- Illuminable
- Resistant to impact, shock and vibration
- Usable at up to -40°C
- Very long service life of mechanical and electrical components
- Available with standardised protective shrouds



Illuminated pushbuttons

Series 84

EAO offers its Series 84 with a multitude of actuator options that make this sleek, contemporary, award-winning product range suitable for a wealth of industrial applications.

- Attractive design and reliable operation
- IP67 front protection
- Actuators and lenses available in many colours and materials
- Strong, consistent illumination using innovative techniques
- Animated, programmable illumination options and multifunctional illumination switching element
- Available with solder, plug-in or print terminals or with flat ribbon cabling



Selector switches

Series 61

The flexible design provides a variety of possible configurations to meet all types of functional requirements. This enables components to be integrated into any type of control system. Thanks to IP65 protection, Series 61 is ideal for industrial applications and is internationally approved and used throughout the world.

- Wide range of modular products
- Raised or flush mounting
- Compact design with 16mm and 22.5mm mounting cut-outs
- Large number of switching elements for different requirements
- Internationally recognised and approved (CE, UL, CSA, ENEC, EAC, VDE, RoHS)



Illuminated pushbuttons

Series 14

Series 14 enjoys timeless top-quality design, with pushbuttons, indicators, buzzers, keylock switches and selector switches for flush or raised mounting. In addition to its high degree of protection (IP67), Series 14 also provides excellent tactile feedback.

- Compact design
- Low back panel depth
- Low-level switching capability
- 22.5mm and 30.5mm versions available for standardised industrial mounting
- Solder and PCB plug-in terminals
- Up to 2 million switching cycles

HMI functions and features.
At a glance.

Function	Series					
	14	45	61	71	82	84
Function						
Pushbutton	■	■	■	■	■	■
Double pushbutton		■				
Indicator	■	■	■	■	■	■
Selector switch	■	■	■	■		
Toggle stick		■				
Keylock switch	■		■	■		
ID keylock switch		■				
Emergency stop switch		■	■			■
Stop switch		■	■			■
Mushroom-head pushbutton	■	■	■	■		■
Potentiometer		■	■			
Toggle switch		■				
Design						
Flush	■	■	■	■	■	■
Raised	■	■	■		■	■
Mounting cut-out						
16mm			■		■	
19mm					■	
22.5mm	■	■	■	■	■	■
30.5mm	■	■				■
Square/rectangular			■	■		
Terminal						
Soldering terminal	■		■			
Solder/Plug-in terminal	■		■		■	■
Screw terminal		■	■		■	
PCB	■		■	■		■
Spring-loaded terminal		■				
Front protection						
IP65	■	■	■	■	■	■
IP66		■				
IP67	■	■			■	■
IP69K		■				

Experts. *In mixed technology solutions.*



EAO develops impressive, customised HMI Systems that feature innovative technology, intuitive operation and reliability.

As experts in various mixed technology solutions, we provide our customers with expertise – from the initial idea right through to the manufacturing stage – and generate real benefit on their behalf.

System solutions

When manufacturing HMI Systems (HMIS) that meet the entire spectrum of market requirements, quality is key. Thanks to EAO's high-quality product range, and to the variety and flexibility of our components and systems, we have in place the ideal requirements for an effective HMIS.

Savings in cost and time

Global experience in supply chains, our expertise in process optimisation and the EAO risk management system guarantee accurate planning and a reduction in the number of interfaces. EAO's customers thereby benefit from considerable savings in cost and time. Our customers around the world also appreciate our global expertise when it comes to functional and ergonomic user requirements as well as market-specific and country-specific standards, certifications and approvals.

Global service

We use our globally active planning and production centres to provide advice and support during all project phases. This is a fundamental part of our system of total quality management.

The EAO network of sales companies and production sites in Europe, North America and Asia provides our customers with access to top-quality consultation, design and logistics services. From planning and prototyping through to assembly, we offer all the services necessary for the production of process-specific systems solutions.

Sustainability as standard

Sustainability is of course also a part of our consultation services – as are warehousing, project documentation, on-site training, and other services (such as refurbishment).

Reliable assembly. *Short delivery times.*

Certified. *Your expert and partner.*



Thanks to our international production sites and our global delivery and support centres, we offer you efficient, sustainable logistics and can optimise your supply chain.

With four value-creating partners in Europe, Asia and North America, as well as other strong partnerships around the world, we are able to offer the following:

- Qualified vendors worldwide
- Consistent multi-location processes
- Integrated quality measures throughout the supply chain

To us, speedy assembly, short delivery times and secure processing are all part of good customer service. And so too is comprehensive production expertise, as exemplified by the following:

- PCB design
- SMT placement, assembly and inspection
- Cable and connector assembly

EAO also has long-standing experience in building HMI Components, which allows us to offer our customers truly expert consultation in the areas of machining, surface treatments, sheet metal forming, injection moulding, marking, PCB placement, and the integration of complete HMI solutions.

Our adherence to international standards in combination with comprehensive product testing has made EAO into an established and reliable partner when it comes to planning, developing and implementing your optimal HMI solutions.

EAO utilises a comprehensive quality management system which covers all business areas. We are certified in accordance with the following standards:

- Quality Management System
DIN EN ISO 9001: 2008
- Environment Management System ISO 14001
- Industry-specific standards and regulations
- E-Stops according to ISO 13850

Reliability. Continuity. Durability.

In order to meet customers' demands in terms of reliability, continuity and durability, our products and systems are subjected to permanent quality monitoring. Among other things, this includes:

- Finite element method
- Incoming goods inspection: Optical analyses, X-ray analyses and CT-scanning
- Tests with special software (e.g. LAB View)
- Use of cutting-edge environmental test chambers
- Checking of adherence to different degrees of protection
- Testing the durability of individual components

We use our in-house laboratories to subject our HMI products to various batteries of tests and assessments under the most realistic conditions.

Our products possess the key international approvals, and meet all standards and guidelines such as UIC, CE, RoHS, ENEC, CB, UL/UR, ISO, CSA, VDE, CQC/CCC, EAC, IRIS and more.



Expert manufacturers.

EAO creates possibilities. Since 1947.



Founding year: 1947
Number of employees: 600
Headquarters: Olten, Switzerland
Manufacturing Companies: Switzerland, Germany, North America, China
Sales Companies: 10
Distribution countries: 50
Core markets: Machinery, Transportation, Automotive, Heavy Duty & Special Vehicles

EAO AG, a Swiss, family-owned company founded in 1947, has developed into one of the world's leading manufacturers of high-quality switches, keyboards, sophisticated control elements, and complete HMI control units and HMI Systems.

Efficient and modern development processes, effective global supply chains, and skilled project and consultation management represent additional services that we offer our customers and business partners around the world.

Your solution-focused expert and partner

We do much more than just manufacture individual control elements. As a solution-focused partner, we provide the option of technically and mechanically customising existing HMI Components in line with our customers' individual requirements. From simple control elements through to sophisticated HMI Systems, from serial production through to installation – we offer the entire range of HMI services and inspire the confidence of our customers.

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All necessary planning documentation available on our website:
www.eao.com*

Technical changes, errors and omissions without prior notice.

Safety instructions
All our products are to be used for the designated applications only. Maintenance, repair and replacement of our components and systems must be carried out by authorised and trained personnel.

General conditions of sale and delivery
*We refer to the currently valid General conditions of sale and delivery which can be obtained from us. For further information about EAO's product range either contact your local sales office, distributor, or alternatively visit our website:
www.eao.com*

This brochure is climate neutral and was printed on FSC-certified and CO₂-neutral paper.



printed in
switzerland

printed carbon neutral • Swiss Climate

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