



Modular. Reliable. Connected.

# Elmasystem Evo





Elmasystem Evo

# A fully automated solution for the most demanding cleaning requirements.

## Tailor-made systems.

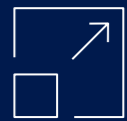
Elmasystem Evo adapts flexibly to a wide variety of cleaning tasks. Various process modules for ultrasonic cleaning, rinsing, drying as well as extensive expansions can be individually customised from modular building blocks for an optimal cleaning process. The system can be integrated into existing upstream and downstream value-added processes.

Common interfaces such as OPC/UA enable a seamless connection to different IT systems, such as Enterprise Resource Planning (ERP) or Manufacturing Execution System (MES). Elmasystem Evo represents a process-safe and high-performance system in the form of a worthwhile investment for modern production environments.



Highlight

MAXIMUM BENEFITS



### Developed for

Medical technology

Photonics

Energy and drive technology

Precision components

Watches and jewellery



### Cleans

Implants, instruments and contact lenses

Precision optics, optics for safety and monitoring systems, vacuum components, parts for laser and lithography technology

Components for fuel cells and drive systems, power electronics, electro-mechanical components

Technical ceramics and substrates, components for injection moulding tools, valves, nozzles, springs

Micromechanical components, cases, straps



### Removes

Adhesive residues

Oil and grease

Abrasive and polishing pastes

Particles

Flux

Film-like impurities

Organic and inorganic impurities

Particulate impurities

Oxidation

Protective coatings





Elmasystem Evo

Technical data

# Three sizes. One goal. Flexible cleaning processes.

## Unlimited possibilities.

Elmasystem Evo always focuses on the overall cleaning process. Thanks to modern interfaces, the system integrates into existing IT infrastructures. Smart feed and discharge systems ensure seamless integration into upstream and downstream production processes. Cleaning processes are continuously and intelligently

monitored, ensuring reduced consumption of water and cleaning chemicals without compromising the cleaning results. Barcode, DMC and RFID systems ensure a high degree of transparency and complete traceability.

Elmasystem Evo	550	800	1600
Tank capacity approx. (l)	55	80	160
Multi-frequency sonic (kHz)	25 / 45 or 37 / 130		
Frequency modes	Degas, Sonic, Sweep, Pulse		
Basket dimensions (mm)	244 / 424 / 210	244 / 424 / 360	505 / 432 / 360
Temperature (°C)	variable, 30–80		

- 1 User-friendly system visualisation, process monitoring and diagnostic management, user administration and audit trail
- 2 Traceability through barcode, DMC and RFID systems
- 3 Manual or automated basket conversion
- 4 Maximum load weight: 35 kg
- 5 Peripherals in closed enclosures
- 6 Fill level monitoring, automated bath maintenance and dosing options
- 7 Flexible and variable
- 8 Defined environmental conditions; for example, through system enclosure and laminar flow boxes
- 9 Transfer option through lift doors / double airlocks from grey room to clean room
- 10 Feed and discharge through automated conveyor systems





Elmasystem Evo

## Maximum cleanliness. Efficient operation 24/7.

The Elmasystem Evo is like a Swiss army knife. Whether you choose the manual entry-level version or the fully automated expansion – the system offers maximum flexibility thanks to the modular building block system. The system can be easily adapted to new cleaning requirements. Various measures can be taken to achieve the highest levels of cleanliness in accordance with the ORK/SCP cleanroom classification as well as biological and chemical requirements.

Standardised production processes are the basis for high system availability. Intelligent transport and transfer systems enable fully automated and efficient 24/7 operation. Smart barcode, DMC and RFID solutions ensure efficient data processing and traceable processes.

### Highlights

Modular building block system for optimal cleaning results

Seamless integration into value-added processes

Attractive price-performance ratio



Elmasystem Evo service

# A wide range of expansions. Tailor-made service.

### Extensive possibilities.

Elmasystem Evo is based on modular building blocks and therefore offers maximum flexibility when designing the cleaning system. In addition, a comprehensive range of practical expansions, such as dosing, oil separation and filtration, and calibrated process sensor technology is available.

### Focus on sustainability.

Continuous intelligent process monitoring is the basis for optimal bath maintenance. Key parameters such as temperature, conductivity and pH value are measured continuously and ensure the optimum dosage of the cleaning chemicals. Intelligent rinsing water management, energy-saving and noise protection concepts, as well as water treatment and recirculation systems all ensure sustainable operation.

### Smooth operation.

Before the system is put into operation, operators receive intensive training from Elma experts. Regular care and maintenance of the system contribute to reliable system availability. Elma makes this easy with tailor-made spare parts packages as well as service and maintenance contracts. Should faults nevertheless occur, our flexible service team will be ready to help you – on site or remotely – at every step from fault analysis to troubleshooting.

### Any questions?

Our service team will be happy to help!

**+49 7731 882-2288**



Digitalisation



## Software visualisation

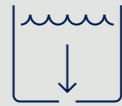
Intuitive and easy-to-use interface

Connection to external systems

Data logger, audit trail, diagnostics



Economic efficiency



## Bath maintenance and process monitoring

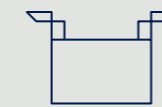
Dosing, oil separation and filtration

Calibrated process sensor technology

Measurement of temperature, conductivity, pH value, TOC, refractive index, particle number and size



Process optimisation



## Movement and product handling

Baskets and product carriers

Oscillation, rotation, lift-out

Integration into upstream/downstream processes  
e.g. clean rooms, packaging, assembly



Sustainability



## Resources and environment

Intelligent rinsing water management

Energy saving and noise protection design

Water treatment and recirculation systems







Elma process laboratory

## Qualified experts with one goal – perfect cleaning results.

In our in-house process laboratory, qualified chemists develop highly effective products for various cleaning processes. These are produced at Elma and put to use in various industries. Our specialists will be happy to help you develop your cleaning procedures and answer any questions you may have about bath maintenance and the application of cleaning agents.

Made in Germany

### Individual cleaning tests

The cleaning agents developed in our own application laboratory and manufactured in our own production facilities can master even difficult cleaning tasks for various applications. In our in-house process laboratory, we work together with our customers to develop process solutions for individual cleaning tasks, resulting in a coordinated system concept that includes the cleaning process and the associated chemistry.

### Focus on quality

An unwavering commitment to the highest quality is the foundation of the company's philosophy. The consistent further development of our core competencies and a constant focus on improvement and complete customer satisfaction underline Elma's exceptionally high quality standards. Furthermore, Elma is certified by DQS in accordance with DIN EN ISO 13485:2016.



Simple.  
Residue-free.

The really tough cases are our speciality. This is where the quality of our products really gets to shine.

Interested?  
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