



Our compact model. Small, yet mighty.

Elmasystem Nano





Elmasystem Nano

Fully automated solution for demanding cleaning requirements.

Compact. Powerful. Precise.

Our fully automated ultrasonic cleaning system combines state-of-the-art technology with a space-saving design – perfect for small spaces and demanding applications. Predefined configurations ensure quick and easy setup, minimal planning effort and optimally coordinated components. An intuitive IPC control system allows for flexible programming of individual cleaning cycles while guaranteeing precise control of

all cleaning parameters. This optimizes material handling and ensures a smooth and reliable cleaning process. Energy-efficient and cost-effective, the Elmasystem Nano delivers consistently high cleaning quality based on our proven system technology.

Highlight

MAXIMUM BENEFITS



Developed for

Cleans

Removes

Medical technology

Implants, instruments and contact lenses

Photonics

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

Energy and drive technology

Components for fuel cells and drive systems, power electronics, electromechanical components

Precision components

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

Watches and jewellery

Micromechanical components, cases, straps

Adhesive residues

Oil and grease

Abrasive and polishing pastes

Particles

Flux

Film-like impurities

Organic and inorganic impurities

Particulate impurities

Oxidation

Protective coatings





Elmasystem Nano

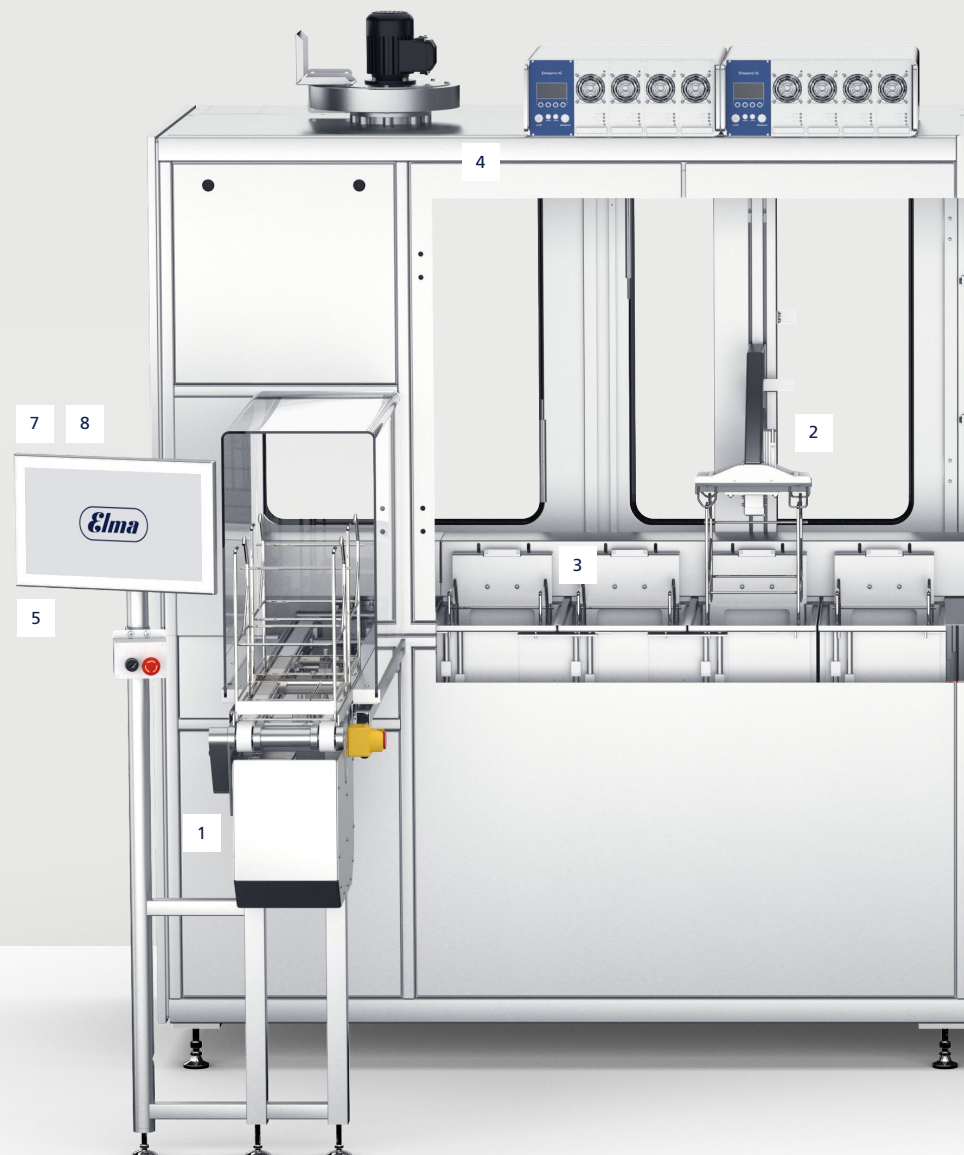
Various options One goal: Defined cleaning processes.

Efficiency for industrial applications

Predefined cleaning processes enable thorough parts cleaning – reliably, immediately and without the need for complex planning. Our advanced ultrasonic technology effectively removes even stubborn residues such as oils, greases, polishing pastes or particles – with minimal mechanical impact.

The intuitive and innovative programming system allows for the creation of customized cleaning programs for different components, precisely tailored to the material, geometry and degree of contamination. The cleaning processes are continuously and intelligent monitored. This significantly reduces water and chemical consumption.

Connected system



Technical data

Elmasystem Nano

- | | | | |
|---|---|---|---|
| 1 | Feed and discharge through automated conveyor systems. | 5 | Various predefined process configurations. |
| 2 | Automated basket transfer and movement. | 6 | Defined environmental conditions – for example, through system enclosures and laminar flow boxes. |
| 3 | Fill level monitoring, automated bath maintenance and dosing options. | 7 | User-friendly system visualisation and process monitoring. |
| 4 | Separation of cleaning and maintenance zones through encapsulation. | 8 | Diagnostics management and user administration. |



VOLUME

25



SIZE

200 / 280 / 160



MODE

Degas, Sonic, Sweep, Pulse available



FREQUENCY

25 / 45, 37 / 130



MEDIUM

aqueous



TEMPERATURE

individually adjustable

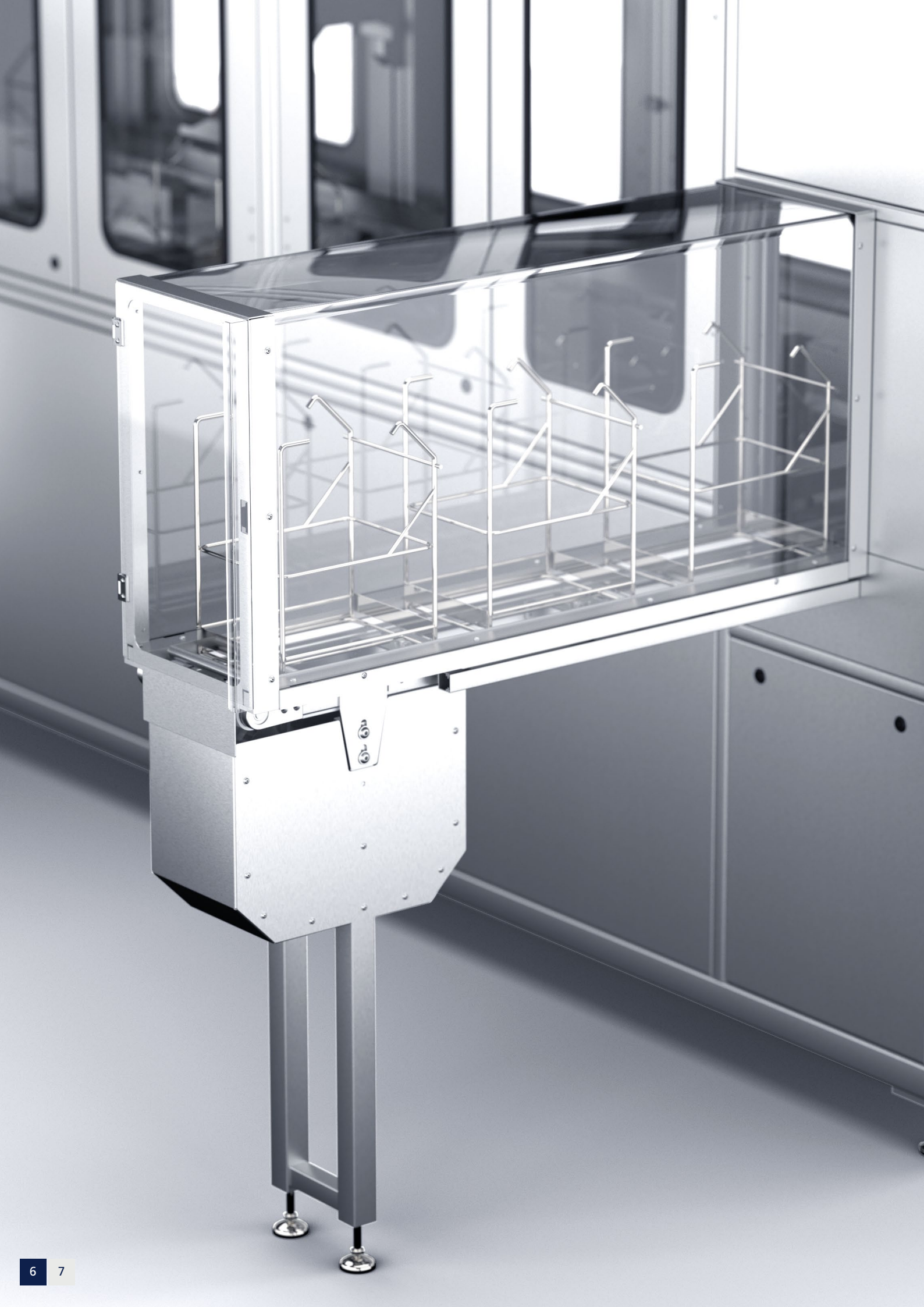


WEIGHT

up to 15 kilograms



DEFINED AND
READY TO USE





Exceptional cleanliness. Efficient operation.

Elmasystem Nano has been specifically designed and developed to meet the requirements of professional pre-, intermediate and final cleaning. Perfectly coordinated components ensure consistently excellent and reproducible cleaning results – delivering maximum process reliability and outstanding performance, even in demanding applications.

Standardised cleaning processes form the basis for long-term system availability. Intelligent control of the transport and handling systems ensures smooth workflows, precise process monitoring and cost-efficient operation – maximising efficiency and reliability throughout your production process.

Highlights

Standardised cleaning processes in the smallest of spaces

Ready to use with minimal planning effort

Offers advanced features based on our proven system technology

Versatile applications. Tailored service.

Wide-ranging extensions

Elmasystem Nano is built on intelligently designed, predefined processes that also allow a high level of flexibility in terms of process configuration.

In addition, a broad range of practical extensions is available, including dosing technology, oil separation and high-performance filtration.

Focus on sustainability

Continuous intelligent process monitoring is the basis for optimal bath maintenance. Key parameters such as temperature, fill level and conductivity are monitored at all times. 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 comprehensive training from Elma experts. Regular maintenance and servicing of the system contribute to reliable uptime. Elma supports you with customized spare parts packages, service and maintenance contracts. Should any malfunctions occur, our flexible service team is ready to assist you, from fault analysis to troubleshooting - either on-site or remotely.

Any questions?

Our service team will be happy to help!

+49 7731 882-2288





Digitalisation



Software Visualisation

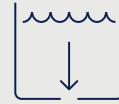
Intuitive and easy-to-use interface

Custom program creation

Extensive diagnostic options



Economic efficiency



Bath maintenance and Process monitoring

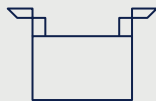
Dosing, oil separation and filtration

Measurement of temperature and conductivity

Automated filling, refilling and emptying



Process optimisation



Movement and Product handling

Baskets and product carriers

Oscillation, rotation, lift-out

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



Sustainability



Environment and Resources

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 are on hand to help you select the right product for your cleaning process and are always available to advise you on bath maintenance and the use of our 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?
+49 7731 882-2121
elmasystem@elma-ultrasonic.com



Elma Schmidbauer GmbH
Gottlieb-Daimler-Strasse 17
78224 Singen (Germany)

www.elma-ultrasonic.com

