



Elmasteam

High-performance steam cleaning units

Steam jet cleaning for jewellers and watchmakers

- at a pressure of 8 bar with top safety standard
- constant availability of steam, no pressure losses
- high heating power, constant pressure level
- perfect quality in „2-chamber design“
- environment-friendly without any chemicals
- with fixed nozzle or flexible hand piece, connection for compressed air optional

Elmasteam high-performance steam cleaning units for the professional use

- **professional high-performance steam cleaning at 8 bar**

high availability of steam with only little pressure losses, long-term pressure level stability, steam jet can easily be directed and controlled

- **reliable technology quality product „Made in Germany“**

highest quality standard, fail-safe „2-chamber design“ stainless-steel casing – easy to clean and hygienic stainless-steel tank with top-quality safety technology high heating power

- **cleaning without chemicals, only with steam – environment-friendly**

perfect cleaning results without any chemicals, only with steam minimum waste disposal costs because of highly concentrated, small-volume waste



Cleaning of precious jewellery with the hand piece

Optional accessory equipment

Cleaning by steam jet is quick and efficient – perfect for the manufacturing of jewellery or for repair purposes and cleaning of worn or stored jewellery. Clearances and gaps between precious stones and the settings, chain links or newly polished precious metal surfaces are cleaned within seconds and dirt particles or residues of wax and polishing media are removed.

If a plating process is required the jewellery pieces can be efficiently cleaned in an ultrasonic bath. The following plating bonds perfectly.

- connection to compressed air supply for quick drying
- wet steam for an increased portion of water for „melting off“ the wax
- fixed nozzle or flexible hand piece
- pump for the connection to the water supply system (for continuous steam supply, as an alternative to manual filling)

Steam cleaning at 8 bar high-pressure

Why do the Elmasteam units operate at a pressure of 8 bar? The standard household steam cleaners operate at a pressure of only 3 to 4 bar. There is usually a significant pressure fall after only a few seconds. The Elmasteam 3000 and 5000 are units made for the professional use operating at a pressure of 8 bar. The high pressure remains constant over a long period and is relatively dry. relatively dry.



Elmasteam 3000 with fixed nozzle / foot activator



Cleaning of watch straps with fixed nozzle



LED lamps on a unit with connected pump



Cleaning of diamonds with fixed nozzle

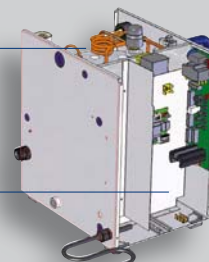
Equipment:

- safety technology by „2-chamber design“ separate structure for mechanics and electronics, short circuit proof, microprocessor-controlled
- safety valve for refilling, opens only when there is no pressure
- quick release of steam pressure to allow immediate refilling of water
- available with either fixed nozzle and foot activator or with flexible hand piece with integrated low voltage control for steam / compressed air
- two unit sizes with 3 or 5 litre tank
- ES 5000 (5 litre tank) available with second connection (fixed nozzle or flexible hand piece); increased heating power for a constant steam pressure
- connection to compressed air supply allows quick cleaning and subsequent blowing of the work piece through the same nozzle

Mechanics

2-chamber design

Electronics



Wet steam

The unit can be operated with wet steam, e.g. for the removal of polishing pastes. The ES 5000 allows additional feeding with water which increases the amount of water in the produced steam, so that the wax-containing polishing pastes are „melted off“.

Compressed air

After the cleaning with steam the work pieces are wet. The unit can be connected to a compressor (optional). With connected compressor the unit can be switched into drying mode at the hand piece or by the foot activator and the work pieces can be blown dry.

Quality

To improve the fail-safe technology, only materials of the highest quality are used: both casing and tank are made of stainless steel. The unit can be operated with tap water (filling by hand or via optional pump). Thorough rinsing at regular intervals ensures a long service life of the steam generator. The structure of the unit inside provides separate compartments for the electronic and the mechanical components (2-chamber design). This prevents the entering of steam into the electronic control in case of any leaks of safety pressure releases.

The hand piece

(optional, instead of the fixed nozzle) is perfect for operating at the wash-basin. The handle carries only low voltage to ensure the safety of the operating staff. The operating keys are robust and leak-proof. The special plastic surface is conductive so that no electrostatic charges can build (the electric current is continuously branched off).



Elmastream 5000 with pump and 1 hand piece

Unit type		Elmasteam 3000	Elmasteam 5000
Mains voltage	Vac	115 or 230	230 – 240
Mains frequency	Hz	50 / 60	50 / 60
Mains connectin		shock-proof socket, 1 phase	shock-proof socket, 1 phase
		USA: grounded NEMA 5-20 plug	USA: grounded NEMA 6-15 plug
Mains impedance max	Ohm	0.155	0.155
Power max	W	1790	2950
Current consumption max 120V/230V A	A	15.5 / 7.8	12.8
Required mains fuse 120 V / 230 V	A	20 / 10	16
Sound pressure level dB	A	on request	on request
Protection degree base unit		IP X3	IP X3
Protection degree hand piece		IP X4	IP X4
Sound pressure level at 8 bar dB	A	93	93
Pressure in pressure vessel	bar	8	8
Pressure vessel capacity	Litre	3	5
Max. filling capacity	Litre	2.6	4.7
Steam temperature at outlet		approx. 160 C°	approx. 160 C°
Casing dimensions incl. feet WxDxH	mm	338 x 260 x 296	338 x 260 x 391
Total unit dimensions with hand piece support and fixed nozzle WxDxH	mm	385 x 445 x 330	385 x 445 x 420
Casing material		stainless steel	stainless steel
Weight incl. foot activator	kg	approx. 16	approx. 20

About us



Highly specialized, and yet innovative in multiple ways – this is ELMA, a company which has successfully been on the market with their ultrasonic technology for more than 50 years now.

Constant research and permanent technical improvement of the products in the ultrasonic and process technology department have always been the core competence of the company. The product range contains a large number of serial units, modular cleaning lines and special customer-made cleaning installations. Cleaning chemicals, developed, tested and produced in our own chemical laboratory round off the ELMA product range and help to solve even the most difficult cleaning jobs in various business sectors.

ELMA are exporters of customized state-of-the-art technology into more than 70 countries all over the world, distributing their products to watchmakers and jewellers, to dental and research laboratories, to companies in the medical and optics sector and to industrial businesses.

You can find ELMA products on more than 100 international trade shows. Numerous distributors around the world recommend the ELMA technology to their customers and rely on the ELMA quality standard „Made in Germany“.

There is a staff of more than 200 people working in the research and production departments at three company sites in Singen in the South of Germany.

With ELMA, quality and service enjoy top priority! A worldwide network of service points cooperates reliably to ensure very short delivery times.

From our headquarters in Singen we entertain business relations with the whole world. The partnership with our customers is based on the identification with our customers' needs. Close cooperation with our customers for us is a matter of attitude, not distance. Today we live in digitalized times, so that important information on marketing and distributional issues are immediately available at all times. We at ELMA live internationally! A highly motivated and dynamic team work together to offer our customers smooth and service-oriented processes. You might have only one simple question, or you might aim at a long and profitable business cooperation - no matter what, trust and reliability are the principal elements that make an efficient partnership.

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