

made
in
germany



Ultrasonics.Steam.Ultraclean.



Industry

Elmasteam 4⁵ basic

Environment-friendly steam jet cleaning

- Professional 4.5 bar steam pressure with long steam availability due to high heat output
- Environment-friendly precleaning:
Dirt and contaminations are removed without using any cleaning agents
- High reliability and long service life of the steam tank
- Compact design - space saving tabletop unit with wall brackets
- Quality product made by Elma, with 3 years warranty*

www.elma-ultrasonic.com

Elmasteam 4⁵ basic

The environment-friendly alternative

Large quantities of oil, lubricants, polishing pastes and swarf occur frequently in industry and in workshops due to the processing with machinery.

In order to clean the workpieces effectively, precleaning with steam is recommended. During the cleaning process with steam, no chemical cleaning agents are used. Thus the contaminations accrue as undiluted and concentrated as possible and less disposal costs occur. This is the strength of steam jet cleaning. Due to the high temperature and high pressure, the steam removes the contaminations very efficiently and with no chemicals. For the fine cleaning, the parts and components can be further treated, e.g. in an Elmasonic ultrasonic bath.

Typical parts and components in industry and workshops: engine parts, tools and components from reconditioning cleaning.

There are two versions of the Elmasteam 4⁵ basic:

a. with fixed nozzle:

This allows working with both hands. Ideal for holding tools and components securely while removing even smallest dirt particles.

b. with flexible hand piece (HP) and 1.3 m hose:

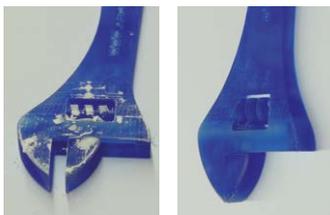
Using this, the part to be cleaned can be held securely (also with tweezers) and sprayed all-round quickly and effectively.



The hand piece fits well in the hand and has been designed for longer use in accordance with ergonomics principles. The valve is purely mechanical and thus very robust and with a long service life.

Application examples before and after the cleaning

STL components



Removal of wax

Flange



Removal of grease and silicone

Gear drive



Removal of oil and swarf

Gear drive



Removal of polishing paste

With the Elmasteam 4⁵ basic and basic HP, industrial contaminations such as pickling agents, adhesive wax and other residues can also be gently removed.

Elmasteam 4⁵ basic

Thoughtout steam technology

QUALITY and SAFETY are top priorities at Elma. This mean, only tried and tested components and high quality materials are used.

The pressure tank with a filling volume of approx. 3.3 litres is cast from special material. The heating is integrated and emits its energy into the water over a large area. This increased radiation area reduces lime deposits when using mains water. Due to the strong heating, the steam is available for a long period of time. Selected and tested materials ensure a long service life of the tank.

The sophisticated 2-chamber design separates the water-containing from the electrical system and thus increases the quality and reliability of the equipment.

In addition to quality, safety of the users was on focus during the whole development process and got finally confirmed by the TÜV type test according to DIN EN 61010-1 and the CE marking. Therefore and provided that the unit is being operated properly, the usual warranty can be increased to 3 years.*



- **Simple start-up**
fill water via the integrated funnel, screw closed and let the machine heat up
- **Storage tray**
for small parts during the work

- **Fixed nozzle**
for working with both hands

- **Operation display**
- clear display,
- constant check of the operating status

- **Indirect heating:**
 - short heating-up time
 - high steam availability
 - simple decalcification and tank cleaning
 - long service life

- **Practical foot pedal**
for switching the steam on and off



It is recommended to use demineralised or distilled water to significantly reduce the maintenance intervals. If mains water is used, regular rinsing out in accordance with the operating instructions must be performed using the rinsing set via the safety ball valve.

The Elma cleaning concept with Elmasteam 4⁵ basic

Due to their high performance, Elmasteam steam jet cleaners are used for pre-cleaning before the cleaning with ultrasound or for intermediate cleaning in the production process.

Elmasteam steam jet cleaners are also used for rinsing. The steam is free of minerals and chemical agents; thus workpieces, engine parts and components are spotless after drying.



Technical data

Operating pressure (bar)	4.5	Steam temperature in the tank (°C)	max. 155
Pressure tank volume (l)	4	Steam temperature at the nozzle (°C)	max. 135
Max. filling volume (l)	3.3	Dimensions with hand piece W/D/H (mm)	290 / 320 / 420
Max. power consumption (W)	2800	Dimensions with fixed nozzle W/D/H (mm)	250 / 320 / 420
Weight empty (kg)	6.75	Length of fixed nozzle (mm)	140

Scope of delivery



Water connection hose · Sieve · Rinsing set ·
Pressure tank screw cap · Maintenance hose ·
Actuation clamp · Tweezers

Further accessories



Wall bracket set

*3 years warranty for proper use in accordance with the operating manual. Wear parts are not covered by the warranty.

