

Super Elite

Watch cleaning machine



Pictured Super-Elite

Elma Order Nos

Super-Elite 230V	301 000 0000
Super-Elite 115V	301 000 2000

Manual watch cleaning machine for cleaning and drying

A low-price alternative for the cleaning of disassembled watch works. Charging of the 3 cleaning chambers by hand; drying chamber for the spotless drying of the cleaning items.

Product features

- Motor with sliding shaft
- Adjustable rotational speed
- Timer
- Heating for drying chamber, seperatly switchable

Standard accessories

- 3 jars with lid
- screen basket:
 - 1 basket frame
 - 1 basket lid
 - 2 insert 5 div. (h= 15mm)
 - 1 insert 1 div. (h=15mm)
 - 1 Miniature basket with lid

Technical Data

Outer dimensions of unit ø/h (mm / inch)	330 / 500 / 13 x 19 7/10
Weight (kg / lbs)	8.7 / 19.2
Timer (min.)	0 - 15
Heating (W)	200
Motor (W)	8



Operating Instructions



Super Elite

Watch Cleaning Machine

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1

General

The present Operating Instructions are part of the delivered equipment. They must be ready for use at any time and remain with the unit in case of resale.

Reprints, translations and copying of any kind, including of parts of the document, must be authorized by the editor.

The copy right remains with the editor.

These Operating Instructions are not automatically revised. For the latest revised issue please contact the manufacturer and editor of these Operating Instructions.

The manufacturer's address is indicated on the last page of the Operating Instructions.

2

Important safety warnings



To be read before initial operation!

Intended use The Elma Super Elite has been designed for the cleaning of metal items only, e.g. watch pieces.

Transport damages Check the unit and mains cable for transport damages. In case of visible damages do not put the unit into operation.

Mains connection For safety reasons, this electrical appliance must be connected to a correctly grounded socket only. The technical details indicated on the nameplate must correspond with the available mains connection details, in particular those of the mains voltage.



Placement Place the unit onto a stable surface. Keep the unit dry!

Hot surface Caution! The surfaces of the heating chamber heat up considerably during operation. Touch the cover at the plastic handle only. The bottom of the drying chamber can reach temperatures exceeding 90°C depending on the period of operation.



Prevention of electrical accidents In order to prevent electrical accidents keep the working surface, the unit and the mains plug dry! Do not put the unit under water!



In case of damages on the Super Elite or the mains cable do not connect the unit to the mains!
The unit must be opened by authorized and specialized personnel only! Unplug the mains cable before opening the unit!

3

Product description

A low-price alternative for the cleaning of disassembled watch works. Charging of the 3 cleaning chambers by hand; drying chamber for the spotless drying of the cleaning items.

3.1

CE conformity

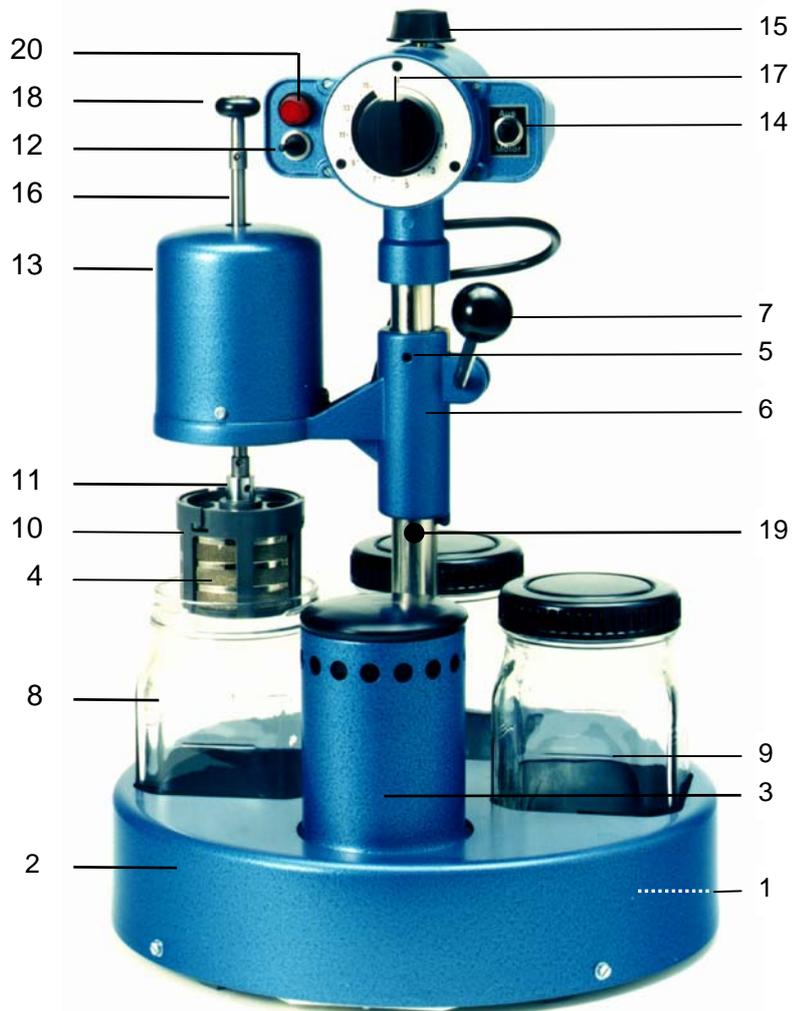
The present Elma Super Elite complies with the CE criteria regard to

- the low-voltage-directive 73 / 23 / EWG (EEC)
- the EMC directive 89 / 336 / EWG (EEC)
- the machine-directive 98 / 37 / EWG (EEC).

The declaration of conformity is available from the manufacturer.

3.2

Designation of the elements



3.3

Technical details

Mains voltage (as per version) (Vac)	100-120 or 240-240
Mains frequency (Hz)	50 / 60
Power consumption of motor (Watt)	18
Power consumption of heating (Watt)	200
Outer dimensions of unit D / H (mm)	330 / 500
Weight (Kg)	8,7
Material of housing	Steel sheet painted

4 Putting into Operations

- Preparation**
1. Compare voltage on type-plate (1) at the machine-hood (2) with the voltage in your workshop.
 2. Place the unit onto a stable and dry surface
 3. Set up the Machine with the heating tube (3) facing toward you and unscrew the transport safety (5) in the bracket (6).
 4. Turn the black turning handle (7) to the front, move the bracket (6) upward till stop is reached. – By turning the handle (7) to the back the bracket (6) is fixed.

- Filling the jars**
5. Fill the glass jars (8) in the following order:
Fill glass jars (8) to the left of the heating tube (3) with elma cleaning concentrate 1:9 till the first level mark. Dilute up to the end of the hammered mark with ordinary tap-water. Fill the second glass jar with distilled water and the remaining third one with elma suprol special.



After 50-60 cleanings the solution should be renewed at all events.

The rinsing-solution in the last glass jar must always be kept clean.

5 Working with the Elma Super Elite

5.1 Placing the watch parts to the cleaned

1. Put your right hand round the cleaning basket (10) whilst detaching with your left hand by a light turn to the left, the basket flange (11) with suction blades (11) form the cleaning basket.
2. Push out the 3 basket insets in the body with your right forefinger into the hollow of your left hand. Then place the watch parts – which must be kept separate according to size and degree of sensitiveness – into the various insets. Place these inset again in a body into the basket with the help of your left forefinger.
The small round box with cover in the middle of the inset is for the smallest parts.
3. Attach the basket by slightly turning the flange to the right, and lock the basket with the lock decide provided on the flange plate.
4. Plug in the mains cable to a earth protective mains socket.

5.2 Cleaning Procedure

Important



All the three glass jars should always be filled up 1 the mark (9). The level of the liquid shall in any case be 1 cm above the suction blade (11).

The speed shall be regulated in all three liquids in such manner only that a small suction is formed in the centre above the basket, but the suction blades of the basket flange must not in any case become visible. Otherwise excessive foam formation would occur, and the basket would not be rinsed sufficiently

Proceeding

1. At the every start of each cleaning job switch on the heating chamber (3) by means of the switch (12) separately provided so as to have heating chamber (3) preheated for drying as soon as cleaning in finished.
2. Bring the raised basket (10) into the glass jar (8) filled up with ELMA Solution i.e. at the left of the heating tube (3). Fix the bracket (6) by turning the knob (7) to the left and dip in the basket in the liquid. Switch on the check-clock (17) for controlling the time of cleaning. The cleaning process in the first glass jar takes about 3 to 5 minutes depending on the extent to which the parts are soiled.
3. Start the motor (13) by means of the switch (14) separately provided.
4. Set the speed regulator to "slow" with the aid of the black knob (15).
5. Before transferring the basket to the first jar to the next then for centrifuging surplus solution raise the basket till the stop is reached by means of the displaceable motor shaft (16) (patent DBP. Nr. 869 025). Thereupon centrifuge for about 30 seconds at full speed.
6. After centrifuging in number 1 glass jar release the bracket (6), move it upward und swing it on to the next jar No. 2 which contains distilled water Repeat the same process i. e. turn the basket in the distilled water for one to two minutes and then again raise up the basket till stop is reached and spin it for one to two minutes. Thereafter place the basket in the third jar, which contains the rinsing-solution. Lift the basket afterwards and go to the heating tube.
7. Place the basket in the heating chamber (3) and dry for 1-2 minutes with raised basket at high speed. Built- in red inspection lamp (20) for controlling the heating.



The surface of the heating chamber heat up considerably during operation. The bottom of the heating chamber can reach temperatures exceeding 90°C depending on the period of operation.

6 Upkeep of the Machine

Basket insets If the cleaning solution is being used over and over again for an excessively long period, the fibres washed out from the soiled watch mechanism, and other dirt such as tobacco particles and the like, will settle down firmly on the tress-work of the basket. From time to time the basket must, therefore, be cleared of these dirt particle deposit and fibres, which become red by the Elma Solution, by means of a brush and petrol.

Grease All the sliding parts of the machine should be cleaned from time to time, and slightly greased (19) and (16).

Motor The AC-motor does not require any maintenance.

Mains cable and mains connection For your own safety, we recommend that you check the mains cable and the mains connection jack at the unit for damage at regular intervals.

Repair In case of technical faults please contact your supplier or the manufacturer of the unit.
When corresponding in regard to your machine, please give motor serial number.

Opening by authorized specialized personnel only Repair and maintenance works which require the unit to be connected and opened must be carried out by authorized and specialized personnel only.



DANGER

Separate the unit from the mains before opening up the housing. The manufacturer cannot be held responsible for any damage caused by unauthorized repair works.

In case of damage please contact the manufacturer or your supplier.

7 Putting out of action and waste disposal



The unit can be taken to metal and electronics recycling stations or returned to the manufacturer.