TECHNICAL DATA SHEET (TDS) AND INSTRUCTIONS FOR USE

METOX 600

Weld Cleaning Machine

Weld cleaning, passivation, electropolishing, marking and etching (14 V AC/DC)

Product Description

METOX 600 is our new model with more powerful cleaning than METOX 500. The instant electrochemical reaction provided by its advanced technology delivers weld cleaning and surface passivation on all stainless steels without delay, swirl marks or dulling.

Thanks to the DC current applied to stainless steel welds and surfaces, it electropolishes in seconds. Its marking system produces high-quality marks with an AC reaction on stainless, galvanised, chrome and carbon steel, aluminium, brass, copper and titanium at a lower cost than laser systems, and performs etching (recessed marking) with a DC reaction.

Features and Benefits

- **More powerful cleaning:** for long welds and high volumes.
- **Passivation:** in the same step as cleaning.
- **Electropolishing (DC):** bright, smooth surface.
- **Marking (AC) and etching (DC):** surface or recessed permanent mark.
- **Every function in one machine.**



Set Contents

Code	Item	Qty
METOX 600 Unit	Weld cleaning machine	1
METOX 503	Brush holder – 1.5 m cable	1
METOX 508	Earth clamp – 1.5 m cable	1
METOX 502	Carbon brush	3
METOX KTS 501	Weld cleaning solution – 1 kg	1
METOX POL 511	Polishing solution – 1 kg	1
METOX MS 505	Marking solution – 1 kg	1
METOX 506	Marking carbon	1
METOX 507	Marking pad	1
METOX 510	Marking O-ring	1

Areas of Application

- Food, dairy and beverage equipment; pharmaceutical and chemical plants
- Stainless steel fabrication, tanks, pipework and railings

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- Kitchen equipment, architectural and decorative stainless applications
- Materials: 304/304L, 316/316L, duplex and super duplex, 904L, ferritic (430) stainless steels

Technical Specifications

Property	Value
Input	220 V, 50–60 Hz
Output	14 V AC/DC
Current	30 A
Protection class	IP23
Weight	11.2 kg
Dimensions (L × W × H)	330 × 230 × 200 mm
Cleaning capacity	Single brush
Functions	TIG weld cleaning · Passivation · Electropolishing · Marking · Etching
Application	Stainless steel (marking: various metals)
Warranty	2 years

Instructions for Use

1. **Surface preparation.** Remove oil, dust and coarse dirt from the area; the reaction does not work properly on oily surfaces.
2. **Connections.** Attach the METOX 508 earth clamp to a clean metal spot on the workpiece and connect the METOX 503 brush holder to the machine.
3. **Brush preparation.** Fit the METOX 502 carbon brush to the METOX 503 brush holder.
4. **Switching on.** Plug in and switch on with the red on/off switch on the right of the front panel.
5. **Mode selection.** Turn the rotary mode switch on the left of the front panel to the left for weld cleaning / marking (AC). The centre position is standby.
6. **Solution.** Dip the brush in METOX KTS 501 weld cleaning solution.
7. **Cleaning.** Move the brush evenly over the weld; do not press, contact is enough. Dip the brush in the solution frequently.
8. **Rinsing.** Rinse the surface with plenty of water.
9. **Polishing.** Turn the mode switch to the right for polishing / marking (DC), use METOX POL 511 polishing solution and apply in the same way.
10. **Marking / etching.** With the mode switch on the left (AC) for surface marking and on the right (DC) for etched marking; use the METOX 506 carbon, 507 pad, 510 O-ring and METOX MS 505.
11. **After work.** Switch off the machine; clean the brush and accessories with water and store them dry.

Safety and care

- Wear chemical-resistant gloves and safety goggles during work; follow the relevant SDS for the solutions.
- Do not operate the machine on wet floors or in the rain; check cables and connections before use.
- Replace worn carbon brushes (METOX 502) in good time. Spare parts and consumables are available separately.

General product description based on our present knowledge; not part of the delivery specification. For the safe use of the solutions, refer to the relevant Safety Data Sheets (SDS).

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