TECHNICAL DATA SHEET (TDS) AND INSTRUCTIONS FOR USE

METOX 500

Weld Cleaning Machine

TIG weld cleaning, passivation and marking on stainless steel (14 V AC)

Product Description

METOX 500 restores a clean surface on welded stainless steel and saves considerable time, labour and consumables. It instantly removes discolouration caused by TIG (argon) welding and heat treatment and restores the original colour. No shade differences or dulling occur during cleaning, and the treated area is passivated in the same operation.

With an instant reaction, its marking system produces high-quality marks on stainless, galvanised, chrome and carbon steel, aluminium, brass, copper and titanium at a lower cost than laser systems.

Features and Benefits

- **Instant cleaning:** removes heat tint in seconds.
- **Passivation:** restores corrosion resistance in the same step.
- **No marks:** no shade differences, swirl marks or dulling.
- **Marking (AC):** permanently marks logos, serial numbers and CE marks.
- **Light and portable:** 7.4 kg.



Set Contents

Code	Item	Qty
METOX 500 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 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
- Kitchen equipment, architectural and decorative stainless applications

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- 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
Current	30 A
Protection class	IP23
Weight	7.40 kg
Dimensions (L × W × H)	260 × 142 × 120 mm
Cleaning capacity	Single brush
Functions	TIG weld cleaning · Passivation · Marking
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 the machine. The on/off switch is on the rear panel, just above the power cable inlet.
5. **Solution.** Dip the brush in METOX KTS 501 weld cleaning solution.
6. **Cleaning.** Move the brush evenly over the weld; do not press, contact is enough. Dip the brush in the solution frequently.
7. **Rinsing.** Rinse the surface with plenty of water.
8. **Marking.** Fit the METOX 506 carbon, place the METOX 507 pad and the stencil, fix them with the METOX 510 O-ring and use METOX MS 505.
9. **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).