

**FOR CLEAN WELD SEAMS.
LIGHTNING FAST AND
ENVIRONMENTALLY FRIENDLY.**

EC-Clean 1000R.



FORGET ABOUT TOXIC PICKLING OR MECHANICAL CLEANING!

Clean and passivate the weld seam in a single step in no more than 30 seconds. With the EC-Clean 1000. An electro-chemical process allows polishing of the workpiece to a mirror-smooth finish and signing it in a forgery-proof manner.

EC-Clean is used when welding stainless steel. The diverse range covers anything from railing, container, and pipeline construction to, for example, the furniture industry. This procedure is perfectly safe since the electrolytes used are also found as additives in the food industry (phosphoric acid E338).

EC-Clean 1000R

- Full power, 1000 VA at 100% duty cycle
- For workshop and construction site use



Cleaning, passivation, and polishing

- Cleaning and passivation in a single step
- Cleans thoroughly and quickly even in corners and edges
- Polishes the workpiece until its surface is as smooth as glass
- Perfectly non-toxic electrolytes



Cleaned

Polished

Signing

- Dark-signing of stainless steel by oxidation
- Light-signing of aluminium by material removal
- Durable and resistant to chemicals or abrasion
- Long-term stencils can be used up to 5,000 times



EC-CLEAN 1000R



EC-Clean 1000R Set	
Cleaning with alternating voltage	✓
Polishing with direct voltage	✓
Signing on aluminium	✓
Signing on stainless steel	✓
Technical data	
Power	1,000 VA
Connection	230 V / 50 – 60 Hz
Protective class	IP21
Dimensions	320 mm x 130 mm x 215 mm
Weight	7,7 kg

Forget about toxic pickling or mechanical cleaning!

Stainless steels obtain their corrosion resistance through a thin passive layer of chromium oxide. The heat from welding destroys this layer, rendering the surface susceptible to corrosion. Tarnish and oxidation must, therefore, be removed after welding and the surface must be re-passivated. This can be done either chemically or mechanically. Dry cleaning by pickling is toxic, requires long exposure times and leaves unsightly pickling marks. Mechanical processes by brushing or grinding are non-toxic – but almost always leave ferrites or iron oxides on the surface, which produce new rust. Beam processes, on the other hand, are associated with high investments. All methods share one important drawback: An additional work step is required to passivate the surfaces. This can be done by storing at controlled humidity and oxygen supply, or using chemical passivation agents that pollute the environment and health again.

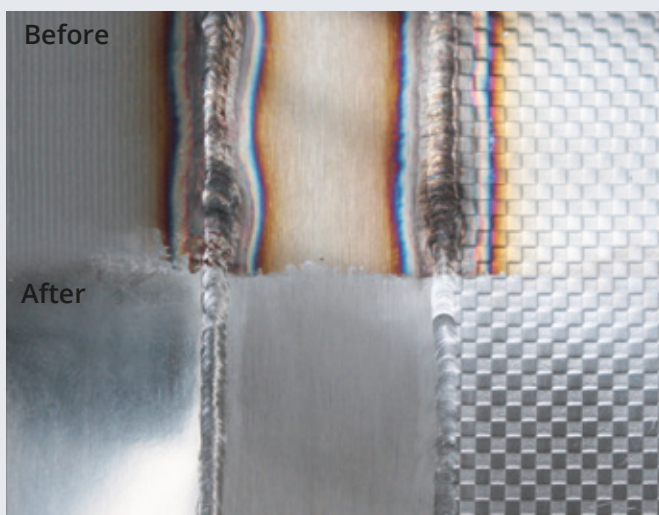
Pure efficiency.

Millions of small arcs at the ends of the carbon fibre brushes remove all impurities on high-alloyed stainless steels and even on non-ferrous metals such as copper in the blink of an eye. A second work step to passivate the weld seam is not necessary.

Poison? Wrong!

The EC-Clean 1000 cleans with the power of arcs without using any toxic pickling chemicals such as hydrofluoric or sulphuric acid. Only non-toxic electrolytes that are also used as the food additive E338 are used for this.

CLEANING AND PASSIVATION:



POLISHING:



Before

After