

Original Reuter-Pinsel erkennen Sie an dem orangenen Faden



INNOVATIVE IMPLEMENTATION OF ELECTROEROSION FOR METALS DECONTAMINATION / POLISHING OPERATIONS

Stainless steel, Steel, Aluminium





CARBON FIBER BRUSHES

Carbon fibres are excellent conductors. Our carbon fibre brush contains up to 1.5 million of them; they conduct high current to the work piece with a current density up to 250 A/cm².

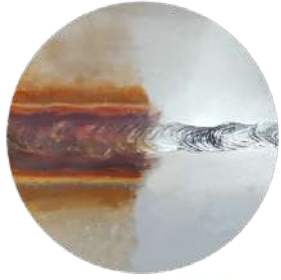
SWITCHABLE AC / DC DEVICES

In direct current mode: **dissolve metal, oxides and polish the surface (stainless steel).**

In alternating current mode: removal of **oxides** by acid, oxidizing and reducing dissolution reactions.

AUTOMATIC ELECTROLYTE SUPPLY SYSTEM

- A microprocessor calculates the optimum amount of electrolyte, which is then fed directly into the carbon fiber brush by a servo pump.
- The flow rate is function of the power generated, the metal treated and the electrolyte used. The order of magnitude is 0.5 l / h.
- Depending on the electrolyte used and the possibilities of waste acceptances, it is possible either to rinse the treated surface, or to wipe it with a smear: consequently, the waste generated will be either the used electrolyte diluted with rinse water, or wet smears.
- Automatic electrolyte supply system included in the Cleanox 5.0 model



ADVANTAGES

● EASY

Portable equipment can be installed on site very quickly

● FLEXIBLE

Different sizes of brushes (single size M, L, XL, XXL), different shapes

● POWERFUL

Removal of a few microns of oxides or base metal in a very short time

● REMOTE CONTROLLED

The brush can be automatically supplied with electrolyte (flow rate \approx 0.5 l / h)

● REPRODUCIBLE

Since erosion is linked to the amount of current, the thickness removed (microns) is controlled by the time of the operation

● LOW WASTE

ELECTROLYTES



- MAINTENANCE OPERATIONS

- Phosphoric acid

- DISMANTLING OPERATIONS

- Nitric acid
- Phosphoric acid

USE CASES

- ◆ Hot spot removal
- ◆ Waste decommissioning (change the waste category)
- ◆ Extensive decontamination of expensive or strategic parts to allow their maintenance and then their re-use
- ◆ Preparation of inactive surfaces to give them a state close to mirror polish limiting the incrustation of subsequent contamination

CONTACT

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