

CLEANING OF ELECTROSTATIC FILTERS

REQUIREMENTS

Electrostatic filter systems are used to clean solid and liquid particles from the exhaust air of cooling lubricant or oil-bearing machine tools by means of high voltage. This in turn serves

- to protect employees and the environment as well as
- to ensure cleanliness in production, i.e. as a showcase for the company.

In order to maintain the value of the machine tool and to ensure its proper functioning, manufacturers recommend thorough cleaning at intervals depending on the level of contamination, typically every 4 - 12 weeks. Therefore, a fast, cost-efficient, effective and damage-free cleaning of the pre-filters and after-filters, the ionizers and collectors is required, without damaging sensitive parts such as the tungsten wires of the ionizers.

PREVIOUS TECHNIQUE

High-pressure cleaners would damage the collector plates and the tungsten wires of the ionizers. Correspondingly large ultrasonic systems based on the flooding principle, on the other hand, are extremely cost-intensive. Neither of these systems can usually be used on site, i.e. on the machines; rather, the electrostats have to be removed and shipped to a service provider or taken to a washroom and cleaned there.

OUR SOLUTION

In contrast, the low-pressure hot cleaning process of ph-cleantec offers a cost-efficient and effective alternative: Electrostats can be removed and cleaned directly on site in the parts cleaning level of the SR units.

Due to the high temperatures of up to 95°C, oils are easily dissolved and particles are effortlessly transported away thanks to the low pressure, without causing any damage.

This saves time by eliminating assembly and travel times, and is efficient because the electrostatics can be reinstalled directly instead of being sent in and/or centrally cleaned.

Even hard-to-reach places can be easily attained; equally, sensitive elements such as the tungsten filaments can be cleaned without damage and usually without the use of chemicals.



Cleaning an electrostat in parts cleaning level of 1000 SR

YOUR ADVANTAGES

- Efficiency/quality: Fast and thorough cleaning especially of the oily contaminations due to the high working temperature up to 95°C. With our electrostatic nozzle SR-ES easy cleaning between the plates.
- No damages: Thanks to the low pressure, even delicate parts such as the tungsten filaments in the electrostats can be cleaned.
- Mobility: Devices are self-sufficient and can be moved from machine tool to machine tool and thus from filter to filter within the workshop.
- Occupational safety and environmental protection/chemicals: Very few chemicals, if any, are required; this protects the environment, increases occupational safety and reduces costs.
- Cost-effectiveness: Significantly less time spent cleaning, transporting and reloading; less chemicals; depending on the type and number of filters, even on a full-cost basis cheaper than third-party suppliers.
You want to run the numbers for your company? Then please go to the amortization calculator on our website.
- Universal applicability of the hot cleaning devices: Also for machine and parts cleaning.
- In summary: Comparatively low investment, hardly any running costs, high efficiency and top quality.

SEE ALSO

- Video Parts cleaning which includes cleaning of electrostats on our website.
- Amortisation calculator on our website.



Electrostat before / after