

Don't give dust a chance

A new type of ionizing device neutralizes static charge and thus reduces the problems caused by dust inclusion during the painting process. The device powered by compressed air lies lightly in the hand and ensures a smooth process in the painting booth.

Ionizing guns for the automotive industry are mostly difficult to handle heavy devices that work with batteries, battery packs or power cables. Herrmann Lack-Technik developed an easy to handle, light weight device that makes the job in the paint booth much easier. In the meantime, the ATEX-certified IONSTAR has proven to be

an indispensable tool in the paint booth and is already exported in over 35 countries worldwide.

Costs that arise due to dust inclusions cannot be passed on to the customer. The ionizer can neutralize the static charge on work surfaces and thus the problems in the painting process which cause

dust inclusions are reduced drastically. Therefore, refinishing work is significantly reduced, which minimizes costs for the user.

Compressed air instead of power supply

The integrated turbine generator creates the necessary electricity simply by using compressed air. This energy is used for the ionization process which ensures that surfaces are less susceptible to dust and contamination. By means of ionization, the static charge +/- on parts and surfaces is neutralized. Contaminations no longer adhere to the neutralized parts and won't attract more dust to the surface.

Because the gun is powered by compressed air and no external power supply is required, it is light and easy to handle. Only the compressed air hose has to be connected. Battery changes, battery charging times and waiting times during which the device is not used can be eliminated. This means that it is ready for use at any time, which ensures a smooth process in the paint booth.

In addition to the CE and EC Directive 2006/42 / EC, the antistatic gun also complies with the stringent ATEX standards. The EX-certified device is therefore also approved for the use in potentially explosive environments.



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Impurities that stick to production parts often have to be removed before further processing can be carried out.



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The handy antistatic gun is hardly bigger than a normal blow gun.



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In industrial production, static electricity builds up, for example, through the use of assembly lines, rotating wheels or synthetic materials.

Surfaces that can be painted immediately

The ionizing effect works on every surface, but is most effective on surfaces or with materials, that are little to not at all conductive. The device is therefore particularly suitable for plastic and composite surfaces. Unprimed plastic parts are often a problem; the diversity of plastic compositions and variations create additional hurdles for the painter. Antistatic cloths (tack rags) don't usually have a great effect as the application and friction on the surface creates its own static charge. In contrast, IONSTAR creates an immediately paintable surface.

The ionizing gun also helps in the alignment of aluminum particles in metallic paint, making color adjustment easy and effective. Electrostatic charging is often a reason for cloud formation or dark edges in the paint job, as well as for color matching difficulties. By ionizing surfaces, these problems can be solved.

Static electricity in the industrial production process

The ionizer was originally designed for use in the automotive industry and developed for paint booths in hazardous areas. Since the problem of static charge is not limited to this area, the device is gaining access to other industries.

A by-product in industrial production is static electricity. Using assembly lines, rotating wheels or synthetic fabrics create static in the manufacturing process. Thus a basic charge is present and can be passed on to the parts being produced. The simple transfer of bulk goods or the removal of a film from surfaces is often enough to generate static charge that hinders further working steps.

Plastic parts, for example, that during production must be handled, become a magnet for dust and chips that are inevitable in these processes. Impurities that adhere to production parts often have to be removed before further processing such as painting can be done. Inclusions of dust can cause parts to be sorted out as they do not meet the quality requirements. Even label stickers and product labels can only be tidy and neatly attached when the goods are dust free. A brief application of the anti-static gun ensures professional and clean labeling.

Increased productivity and a safe environment

In addition, the health effect on workers cannot be neglected. Shocks due to static discharge, or risk of ignition in the event of severe static electricity pollution, are a recurring problem. The sparks caused by static discharge disrupt processes and damage goods. IONSTAR can solve many

of these problems caused by electrostatic charge, eliminate them and thereby increase productivity and create a safe environment. Industries already using the gun include:

- Industrial painting
- Mechanical engineering
- Yacht builders
- Airplane service / maintenance companies
- High technology companies
- Electronics and sensor technology
- Surface finishers
- Agricultural machinery manufacturers
- Medical technology
- Railway technology
- Aircraft construction
- Wind turbines
- Plastic processors //

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