



**KRIEG**

LACKIEREN +  
BESCHICHTEN

# KRIEG

## LACKIEREN + BESCHICHTEN

### We are your external team

Are you looking for an expert in high-quality, innovative coating and lacquering technology? Welcome to E. Krieg GmbH. Since 1971, we have been impressing industrial customers in various industries with our external service. We specialise in manual and automatic lacquering as well as technical lacquers such as anti-corrosion or anti-friction coatings.



### Tried-and-tested values

Since the founding of the family business, three generations have now been integrated into the company management. However, our values have remained constant – our customers can count on amazing punctuality, flexibility and quality. The latter are verified by our IATF 16949 and ISO 9001 certifications.



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## New location

Since the end of 2018, we have been producing at the new location with a total of 3,500 square meters of production and office space and state-of-the-art equipment – the best prerequisite for successfully tackling any project. Thanks to our convenient location on the motorway, you can reach us without taking any detours.





## Only the best is good enough

Above all, our customers rely on the highest quality standards and a sense of responsibility from our team. Our certifications are proof of that.

## Certifications

E. Krieg GmbH's integrated management system ISO 9001, IATF 16949 and EMAS certified.

### ISO 9001:2015

The quality management system based on ISO 9001 is sub-divided according to the high level structure and is based on the following principles:

- + customer focus
- + leadership accountability
- + personal involvement
- + process-oriented approach
- + continuous improvement
- + fact-based decision making approach
- + relationship management

### IATF 16949

The IATF 16949 standard of the automotive industry is ISO 9001 compliant and provides for continuous improvement, emphasising error prevention and reducing waste in the supply chain.



## EMAS Environmental management system

- + E. Krieg GmbH implemented and validated an environmental management system in accordance with the Eco-Management and Audit Scheme, as well as EN ISO 14001:2004 section 4 (also known as EU EcoAudit or EcoAudit).
- + E. Krieg GmbH EMAS registration number D-261-00055.
- + Our environmental statement is available on request. The EN 9100 certification is pending for 2019. This provides the framework of a quality management system for organisations in the aeronautics, aerospace and defence industries based on the DIN EN ISO 9001 general quality management system.

## Your professional for lacquers and coatings

As a service provider, we offer a wide range of manual and automatic lacquers and coatings. Rely on complete services in industrial lacquers – for decorative as well as technical applications. The decisive factor for a high-quality end result is, above all, the correct pre-treatment.



## Degreasing

In addition to relevant criteria such as cleaning medium, exposure time, zone control and temperature, the selected cleaning process is also characterised by the special mechanical action (agitation/application).

## Aluminium pre-treatment

Our aluminium passivation replaces chrome (VI) pre-treatment with aluminium parts and ensures that the aluminium surfaces provide an ideal primer for subsequent lacquering.

## Multi-metal pre-treatment

To improve corrosion protection and lacquer adhesion to metallic substrates, we recommend our fine crystalline thin film conversion treatment.

## Dry ice cleaning

The dry ice cleaning process is a non-abrasive process, which means that the workpiece will have a perfectly clean surface without any abrasion. This cleaning method is suitable for both metal and plastic components.

## Fluorinating plastic parts

A fluorination is not a coating, but a molecular chemical reaction. The result is a rougher surface that can be lacquered very well and remains active for several weeks. A special advantage of this method is that even very complex geometries can be processed in perfect uniformity, because cavities, depressions, etc. are also covered by the fluorine gas mixture.

## Best pre-treatment – the most important thing first

Only if a surface has been well prepared can the coating adhere to it in the best way possible. Pre-treatment is therefore the first important step in surface treatment. We are happy to offer you the right solution for cleaning your components with IATF 16949 certified quality.

- + degreasing
- + passivation
- + dry ice cleaning
- + fluorination
- + sandblasting





## Technical coating

We also carry out all important processes for you when it comes to technical coating. Rely on competent advice and support – and a result that matches your ideas exactly.

## Bonded coatings (anti-friction coatings)

Using bonded coatings (anti-friction coatings) offers major benefits for a variety of industrial applications. This is because the surfaces reduce friction and prevent corrosion. We would be happy to advise you on the best possible application for you!

## Paintflux

We coat more than 150,000 parts using this process every day. This makes us the leading contractor for fluxing aluminium stamped parts. For more than 17 years, we have been successfully preparing aluminium components for subsequent processing in the soldering oven.

The Paintflux process has been in standard production for 20 years. It ensures temporary adhesion and a defined application rate for the NOCOLOK flux powder on, for example, heat exchanger components that need to be soldered. We are proud to have developed this process in application technology.

More information on this topic can be found on our website [www.paintflux.com](http://www.paintflux.com).

## Corrosion protection lacquer

For light corrosion protection, primers and base coats are used as a thin-layer system, most of which contain zinc phosphate pigments. For heavy corrosion protection, thick film systems are required, which mainly contain iron mica and zinc dust. The basic requirement is compliance with the prescribed minimum layer thicknesses.

## EMC coating

An EMC coating ensures the electromagnetic compatibility (EMC) of an electrical or electronic device, thus shielding the device from electromagnetic interference (EMI), or strengthening the device against electrostatic discharge (ESD) and electromagnetic interference fields.

Electrical or electronic devices that have only a plastic housing without special coating are therefore not protected against damage caused by an electrostatic discharge. In addition, other devices in the surrounding area may not function properly if exposed to the emissions from devices that are not protected by an EMC coating.





## Decorative lacquering

The decorative coating has one primary purpose: to appeal to the eye. Thanks to the best material quality and perfect execution, we put your object in the right light.

### Selecting lacquer: the linchpin of the perfect finish

Which lacquer is right for your workpiece? We determine this via in-depth dialogue with you. First, we analyse your request and put it through a comprehensive feasibility study. Subsequently, we will find an optimal lacquer system for you and create an appropriate quote built on this. From the start of the project to the end, our experts provide you with knowledge and experience.

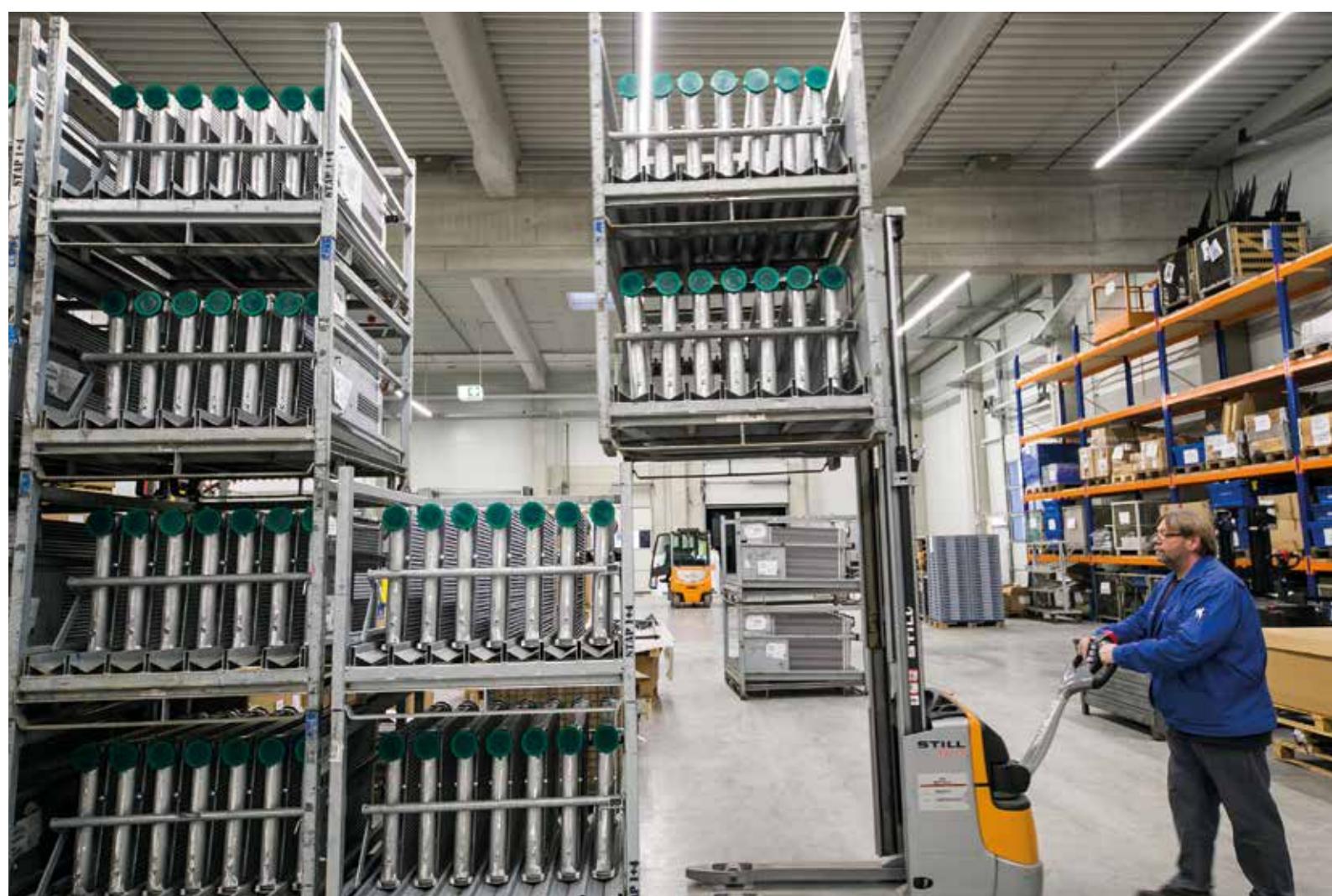
### Your workpieces become pieces of jewellery

On which substrate should the lacquer be applied? What qualities should it have? There are many factors involved in determining the right lacquer system. In addition to technical aspects such as corrosion protection or resistance, it is all about one thing: an attractive appearance. Of course, you have the freedom of choice when choosing



the colour, the surface structure and other features – we will implement your requirements and are happy to assist you with any questions.





## Metal lacquering

As experts in industrial coatings, we refine the surfaces of your metal workpieces with absolute precision. We use only high quality materials and the latest coating techniques for professional metal lacquering.

## Interior and decorative plastic lacquering

Nowhere is the perfect look more important than with interior and decorative paint. It has to meet the highest demands – for example, in the automotive sector, where perfectly lacquered pieces are needed for vehicle interiors. The lacquer must therefore be applied very precisely and decoratively.



The decorative and interior work pieces include, among other things, covers, control knobs and switch clips. Since the production of high-quality, decorative surfaces is one of our specialties, we guarantee you perfect results. Rely on our experts' industrial lacquering project experience – contact us!



## Application technology

We select the appropriate application technology for a perfect result tailored to your individual needs.

## Robotic lacquering

Robotic lacquering is particularly suitable for lacquering large numbers of workpieces. This is specially programmed so that it is optimally adapted to the individual properties of your workpieces. This efficient application method not only improves quality but also saves material: Optimised lacquering movements reduce lacquer consumption.

## Spindle

Rotationally symmetric parts are particularly suitable for a coating with the spindle automatic principle. Brake discs, hubs, sleeves and bottles achieve a flawless appearance with this process.

## Mass small parts coating

For mass coating of small parts, we coat large quantities of small workpieces efficiently and inexpensively for you in a coating centrifuge or a lacquering drum. We give your small parts made of plastic or metal a decorative appearance, preserve the value of the parts or ensure that all the technical demands made of the workpieces are met.

## Electrostatic

In this method, lacquering is electrically charged with atomisation and applied to a grounded workpiece using an electric field. This process is particularly low-loss and efficient. Trust our expertise – and rely on excellent results.



## More services – everything from a single source

We work with our long-standing business partners to offer you convenient full packages in the fields of screen and pad printing and laser marking. Give us a call!

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