



# ELECTROPLATING

## SURFACE TREATMENT AND FINISHING

The requirements for surface treatment and finishing are diverse and range from corrosion and wear resistance through to current conductivity and optical finishing.

Electroless nickel plating with all its benefits is one of our fields of expertise. In the area of electroforming, we produce 3D forms and elegant lettering solutions using real metal. In 2016, our company became part of the BWB Group, which offers a variety of aluminium surface treatments.

## OUR STRENGTHS

- ▶ Whether corrosion protection, decorative effects or functional coatings – we will find the optimal solution for your project
- ▶ Expertise in electroless nickel plating
- ▶ Manufacture of delicate parts and elegant lettering solutions
- ▶ Electroplating mould construction: highly precise, complex shaped, three-dimensional components
- ▶ Modern water cleaning system to protect our environment
- ▶ Flexible order processing
- ▶ Adherence to deadlines and extremely reliable

### HANDY TIP

from nickel to chrome, we offer a variety of optical finishing processes. We can also help you with surface protection through passivation, enhancing the corrosion protection of your workpieces.

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## BWB-ITEN AG'S OFFER

### ELECTROLESS NICKEL

Electroless nickel is a chemical coating made of a nickel-phosphorous alloy. It is primarily applied to metal materials for the purpose of resistance against wear and corrosion.



### SILVER

When using silver electrolyte, we often avoid metallic brighteners: the fewer foreign substances incorporated in electroplated silver layers, the higher the electrical and thermal conductivity.



### TIN

The soft metal is used for various purposes such as the reduction of rubbing in the textile industry. As it is a taste neutral and harmless metal, it is often used in the food industry.



### COPPER

Copper is often used as a heat and electricity-conducting layer. Used as a final layer it offers limited resistance to tarnishing in the air.



### OVERLAYS

The raised layer is bound more effectively with the base material, and overlays improve corrosion and surface protection.



### LITHOGRAPHY, ELECTROPLATING AND MOULDING

is used primarily for manufacturing high-precision components or lettering.



### MOULD CONSTRUCTION

Electroplating mould construction is a method for the manufacturing or reproduction of highly precise, complex shaped, three-dimensional components.



### OTHER PROCESSES

- Chrome (rough polish)
- Bright and semi-bright nickel
- Sulfamate nickel
- Zinc/blue passivation
- Passivation of non-ferrous metal and chrome steel

### QUESTIONS?

Questions? Ideas? Advice? Contact us.