

# DECKER

since 1891

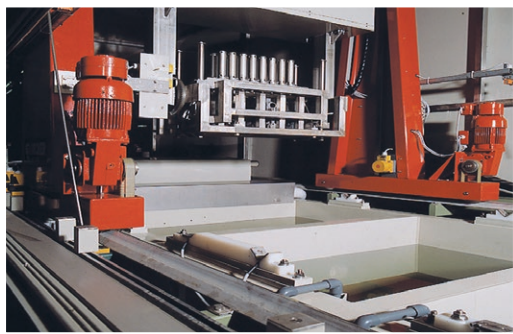
**Plant engineering with high standards  
and passion**

**SEE FOR YOURSELF!**



**PHOSPHATIZING SYSTEMS**





## Phosphatizing

Phosphatizing of metal parts is mainly used for 3 purposes: Corrosion protection, Holding primer for subsequent paint film, Improvement of gliding characteristic. By attaching phosphates to metals thin and compact surface layers are created. Thus created phosphate layers are electrically non-conductive and are very strongly anchored to the base metal. They are not water soluble and are characterized by fine crystalline to macro crystalline appearance. Phosphate coatings can absorb applied oil due to the capillary structure of the coating. Phosphatized parts can be further processed e.g. by cold deformation or drawing with no negative influence to the quality of the surface. Phosphate coatings are applied mainly by spraying. The coating performance is significantly characterized by crystal structure and weight of the base material.

## Materials

Phosphatizing is mainly used for steel and iron parts, but phosphate conversion layers can be attached to parts made of a variety of metals, for example:

- steel and iron
- aluminium
- zinc
- cadmium
- silver

## Phosphate Coatings

- iron phosphate (used as grounding for further coatings like varnishing)
- manganese phosphate (produces mainly friction resilient coatings)
- zinc phosphate (produces highly corrosion resistant coatings)

## Typical Parts



## Phosphatizing Systems made by DECKER

DECKER provides customized fully automatic as well as hand-operated phosphatizing systems for a broad variety of parts, materials and industries.

The systems can, according to technical and economic requirements, incorporate features like automatic product transfer, low temperature dryers, media conditioning and sewage equipment. The phosphatizing systems can be fully integrated into the production environment on customer's site. Intelligent control systems with flexible interfaces to other kinds of machinery and interlinked production systems support fast return on investment and quick time-to-market of the respective products.

# DECKER

At DECKER we believe that success thrives as a combination of experience and technical vision. More than 120 years of tradition in manufacturing systems for wet chemical and galvanic surface treatment as well as Fluorescent Penetrant Inspection (FPI), automation and assembly technology are ample proof for our philosophy.

Please contact us directly for further information.

**DECKER Anlagenbau GmbH**  
Wegscheid 1a • D – 92334 Berching

phone +49 (0)8462 - 200 617-0  
fax +49 (0)8462 - 200 617-11

info@decker-anlagenbau.de  
www.decker-anlagenbau.de