



Anodization Surface Solutions A.SS

A.SS makes use of a printing process in which the lettering, image or logo are captured in the anodized layer of the aluminum. The dye is therefore not applied to the surface, but integrated and protected within the material. Using state-of-the-art digital printing technology, even photorealistic images and halftone printing as well as color gradients can be easily

implemented – also when applied to metals with structures (undulated, perforated, brushed, etc.).

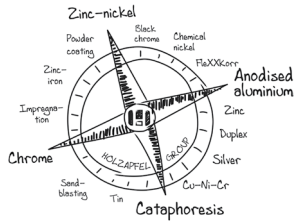
The A.SS process does not require the films and screens normally needed for screen printing and even changing texts, consecutive numbering and barcodes can be reproduced.

Technical details:

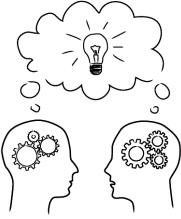
- Individually designed anodized surfaces with personally selected coloring, images, logos, etc.
- Clean, smooth surfaces: the images or lettering captured in the anodized surface are not felt
- A wide range of colors and special colors, including transparent and black
- Unsaturated colors or color mixtures can also be selected
- Highly decorative surfaces; defined gloss levels possible, from matt to glossy
- Coloring, appearance and haptics reproducible
- Wear- and scratch-resistant aluminum oxide coating featuring hardness up to 500 HV (fingernail test, sticky tape test, flying sparks test)
- High electrical insulation effect
- Very high temperature stability
- Overprint is resistant to oil, grease, solvents and alcohol
- Can be applied to hybrid materials
- Can also be easily applied to structured surfaces
- Work pieces free of damage and distortion
- UV-resistant, depending on the shade
- Non-toxic
- Plate sizes up to 600 x 1800 mm can be coated using A.SS

Your added value with the Holzapfel brand...

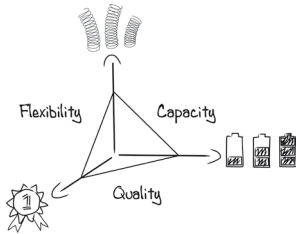
A broad range of surface processes to suit the widely varying specifications of your components



Developers and innovative driving force for all types of coating processes and surfaces



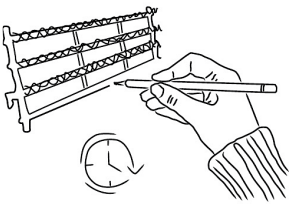
State-of-the-art systems engineering



Coatings and processes in accordance with all common standards, such as those of the automotive industry



In-house frame development for fast, flexible development and manufacture of individual, component-specific frames



Components management, logistics, packaging



Lean management, CIP, value stream analysis



...and how YOU can benefit from it!

- Corrosion-resistant, decorative, functional and organic coating solutions for the automotive, mechanical engineering, medical, sanitary, electronics, optical, consumer goods, lifestyle and renewable energy industries
- Combination coatings in numerous variations available from one single supplier
- Consulting that always comes up with solutions "outside the box"

Direct implementation instead of prolonged coordination: We provide you with the answers to ALL of your coating issues!

- Individually developed surfaces optimally adapted to suit the specifications of your components
- Future-oriented surface solutions that benefit from the experience and expertise gained in over 65 years of surface development
- ▣ We love to take on development projects that challenge our creative ability.

- Large systems capacity
- Sufficient capacity for special dimensions of 2,300 mm x 4,000 mm and up to a weight of 750 kg
- Increased added value through additional assembly services

... and enough space to keep growing with your company's needs!

- Planning security for our customers is assured through detailed advance planning of each process stage
- Customers' coating requirements are met on a sustainable basis and much more

Experience quality in every detail, from consulting and coating to packaging and shipment.

- Ability to react quickly to new products, short production start-up times
- Frames ensure cost-optimised assembly and coating processes

More than 65 years of experience gained in the field of surfaces enable us to find creative solutions for all of your products.

- Coating as well as upstream and downstream value-added processes from one single source
- Fewer suppliers mean fewer processes to monitor and manage!
- One partner to contact

We think ahead and manage processes on your behalf.

- Lean processes that concentrate on creating added value
- Transparency and outstanding quality by means of standards and continuous improvement processes
- KPI-based process management
- Detection of wastage by means of value stream analyses and elimination via continuous improvement processes

We do not need encouragement when it comes to continuous improvement. At Holzapfel, CIP goes without saying and is an integral part of our company philosophy.

If the above-mentioned points have still not entirely convinced you, then please take a look at our customer reference projects at www.holzapfel-group.com/referenzen.