



SURFACE TECHNOLOGY AT ITS BEST!

For over 40 years, our surface specialists have made important contributions to the development of new products and technologies. Our services are used in many industries. Although powder coating, painting, and electroplating often account for only a small proportion of the end product's value, these processes play a significant role in developing innovative products.

Additionally, these processes extend the service life of many everyday objects.

Thus, MBO GmbH prevents the destruction of valuable materials and contributes to environmental protection and resource conservation.

Since its inception, our surface technology has been characterized by our flexibility, sustainability, and innovative ideas.



MBO GMBH

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- STATE-OF-THE-ART TECHNOLOGIES
- HIGHEST QUALITY STANDARDS
- OVER 40 YEARS OF EXPERIENCE
- ONE-STOP SHOP

POWDER COATING & PAINTING

VARNISHING & POWDER COATING

- Individual layer thickness
- Materials up to two tons per carrier
- Dimensions: up to 8000 x 4000 x 4000 mm

ADVANTAGES:

- Corrosion protection and basic protection
- Decorative and weather-resistant

IRON PHOSPHATING

- Dimensions: up to 8000 x 4000 x 4000 mm

ADVANTAGES:

- Corrosion protection and basic protection

GLASS BEAD- & GRIT BLASTING

- Decorative post-treatment & surface pre-treatment
- Dimensions: up to 10000 x 4500 x 4500 mm
- 40 - 70 μm , 70 - 150 μm and 180 - 250 μm fineness
- 5-axis automatic blasting

ADVANTAGES:

- Environmentally friendly removal of rust, scale and lacquer
- Deburring of mechanically processed areas
- Surface cleaning

SPECIAL AIRCRAFT AND SPACE PAINTING



Find more information on our website.
Please contact us if you have any questions!

SPEED



Thanks to our daily in-house pick-up and delivery service, we guarantee fast processing of your orders. We reserve 160 hours per week for processing express orders. We deliver quality at the speed you demand from us.

GALVANIZATION

ZINC (ACIDIC / ALKALINE) – ZINC / NICKEL

- Dimensions up to 2700 x 1500 x 600 mm
- Barrel galvanizing (small parts in large quantities)

ADVANTAGES:

- High corrosion protection
- Various colors

ANODIZATION

- Aluminum
- Dimensions up to 2700 x 1500 x 600 mm

ADVANTAGES:

- Organic and electrolytic coloring
- Decorative, effective look
- Very good corrosion protection

HARD-ANODIZATION

- Aluminum
- Dimensions up to 2700 x 1500 x 600 mm
- Layer thickness up to 150 μm

ADVANTAGES:

- Maximum corrosion protection
- Very high surface hardness and abrasion resistance
- Physiologically harmless, suitable for food

BLACK OXIDATION

- Dimensions up to 1000 x 500 x 600 mm

ADVANTAGES:

- Unchanged conductivity of magnetic properties
- No dimensional changes of the components

PASSIVATION (SURTEC 650)

- Dimensions up to 2700 x 1500 x 600 mm

ADVANTAGES:

- Corrosion protection
- Basis for coating processes

TROWELLING / SLIP GRINDING

- Dimensions up to L=1000 mm

MB LOTUS

ADVANTAGES:

- No visible fingerprints
- RoHS compliant
- Satin finish without processing marks

THERMAL AGING

- Dimensions up to 1600 x 950 x 900 mm
- Temperature max. + 450 °C

SPACE COATING

GALVANIZING FOR AEROSPACE

- SURTEC 650
Conversion coating for standard & high-alloy aluminum alloys
- Compliant with aerospace standards:
 - LN 9368
 - MIL-DTL-5541
 - MIL-DTL-817063

ELECTROLYTIC COLORING

- Currently under development - Coming soon

PAINTS / COATINGS FOR AEROSPACE

- AZ
- MAP
- AEROGLAZE
- AKZONOBEL
 - Suitable materials: Aluminum & Titanium

ADVANTAGES:

- Proven application in space industry
- Temperature resistance from -180 °C to +1400 °C
- Particle resistant to atomic oxygen
- Protection against charged particles (electrons and protons)
- Low outgassing, suitable for vacuum environments
- High thermal absorption capacity

TECHNICAL CONSULTING

WE ARE HAPPY TO FULFILL YOUR SPECIAL REQUESTS IN THE FIELD OF SURFACE TECHNOLOGY. INDIVIDUAL AND RELIABLE.

We support you in every phase of the product life cycle, from development to on-time delivery.

You decide when we join the process: with your idea, specific requirements or concept, or at any later stage. A product's market success is determined in the early stages of development.