

## Our customer's requirements are the central focus of our attention and activity.

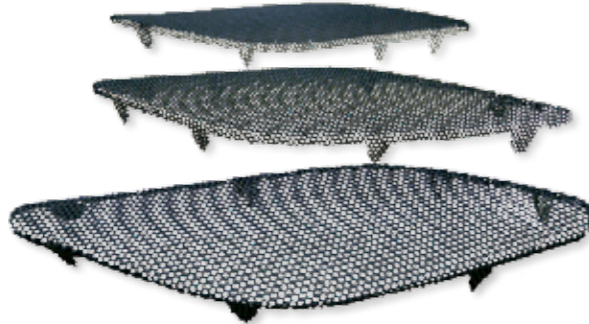
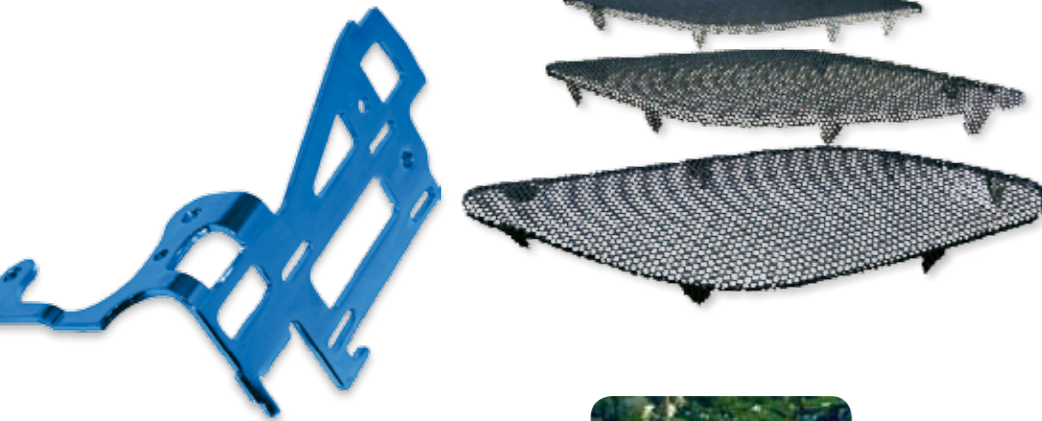
Project realisation from planning to serial production done by professional project management.

We guarantee best quality by:

- Risk analyses
- PPAP approval according to VDA vol. 2
- Process capabilities analysis (Statistical Process Control)
- Measurement System Analysis
- Measuring Device Capabilities
- Continuous Improvement Process

We realize your projects with the help of professional project management from the planning to the production stage.

- adherence to delivery dates
- very short turnaround time of the produced parts and a fast response time for short-term requests
- flexible capacity planning and tailor-made services from a single source



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### Core Competencies

- Punching
- Deep-Drawing
- Pressing
- Spot and projection welding, MIG/MAG welding
- Tumble riveting
- Assembly services
- »» Galvanic surface finishing  
Methods: Zinc base coat with blue or thick-film passivation + sealing, Zinc-nickel base coat with transparent or black passivation + sealing.
- »» Automatic surface spraying  
all one-component water-based lacquers can be used.

### Machinery

- Automatic presses up to 360 t
- Eccentric presses
- Hydraulic presses
- Tumble riveting machines
- Machines for spot and projection welding
- Automatic assembly machines
- High-performance automatic electroplating plant
- Compact flatbed spraying machine

### In cooperation with experienced partners we offer

- CNC-turning, -milling, -drilling, -beveling, -punch nibbling, -laser cutting, -tube and profile bending
- Powder coating, cathodic dip paint coating



**We manufacture:**  
from coil to surface-treated and assembled unit.

## From coil to surface-treated and assembled unit.

### Punching

We process sheet steel up to 8 mm thickness and 600 mm width.

### Riveting and assembly

The assemblies are completed with efficient special-purpose machines and a wide range of riveting machines.

### Shaping

Parts are bended, pressed and pulled on eccentric and hydraulic presses – according to your specifications.

### Welding

We offer the following welding standards:  
 • WIG • MAG • autogenous • gas metal arc • spot- and projection welding

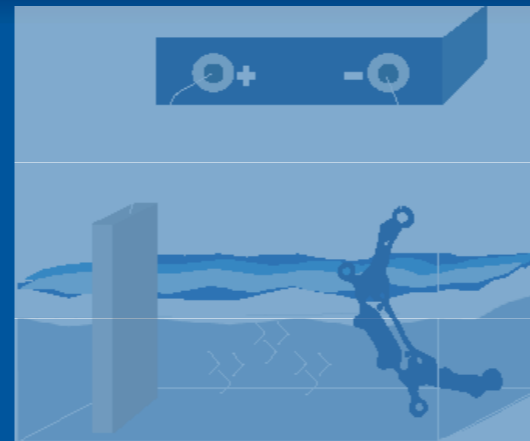
### Varnishing

For flat parts in horizontal position. All one-component water-based lacquers can be used. Paint baking up to 180 °C possible. Materials to be coated: metal, plastic, wood.

## Galvanic Electroplating

State of the art manufacturing procedures in electrogalvanizing

- Rack and barrel processing possible
- Exclusive Cr (VI)-free passivation
- Acidic and alkaline process
- Goods can be sealed after passivation
- Size of the goods carrier: 2600 x 1300 mm
- QA: Layer thickness gauging via X-Ray, corrosion tests in salt spray cabinet according to DIN EN ISO 9227
- Own laboratory



### Reliable and effective surface-treatments

Zinc coatings	DIN-EN	BMW GS 90010	DB DBL 8451	VW TL 217, TL 244	Ford GME 0252	Porsche PTL 7531	Toyota
Zn blue passivated	DIN-EN 12329		8451.12 (22)	OfL- c 340 / 640	A2 / B2 / A6	c 340	TSH 6500 G DU - BD
Zn blue passivated + sealing	DIN-EN 12329			OfL- c 341 / 641	A6 - X / B6 - X	c 343	
Zn thick-film passivated		ZNT	8451.15 (16)	OfL- c 343 / 643	A7	c 340	
Zn thick-film passivated + sealing		ZNT	8451.15 (16)	OfL- c 642	A7 - X / B7 - X	c 343	
ZnNi black passivated	DIN-EN 50979	ZNNI SW		r672			
ZnNi black + sealing	DIN-EN 50979	ZNNI SWW		r673			
ZnNi transparent passivated	DIN-EN 50979	ZNNI SI	8451.62 8451.72	r642			
ZnNi transparent + sealing	DIN-EN 50979	ZNNI SIV	8451.65 8451.66 8451.76	r643			

## „Fast – Flexible – Reliable“

It's not a marketing slogan but the principal object of our work:

Apart from our flexibility and delivery reliability, we distinguish by the highest production quality.

Streamlined hierarchies and short decision-making paths in the company provide flexibility and speed, required when dealing with difficult situations.

You receive your product from a single source and have one point of contact that takes care of your product. We manufacture "starting from the coil to the surface-treated and assembled unit."

Committed and motivated employees and modern machinery make it possible for you to take care of your own core business. For this purpose the continuous improvement process is an indispensable tool.

The company's integrated management system is ISO/TS 16949 certified and meets the requirements of the automotive industry and its environmental management system is certified to ISO 14001.



### Our tools for quality assurance

- Coordinate measuring machine
- Professional project management
- Process control via quality control chart

Certified according to the ISO/TS 16949:2009 norm



Oscar für den Mittelstand, 2000

