

# mg

MUSCHERT + GIERSE  
OBERFLÄCHENSYSTEME



## Company

In 1949, Josef Muschert and Fritz Gierse opened a small plating workshop and laid the foundation for the **MUSCHERT + GIERSE** enterprise. Over the years, the company has become a specialist in surface treatment. Today, the group is headquartered in the Westphalian town Neuenrade-Küntrop and since 1992 also operates a subsidiary in Heiligenstadt, a spa in Thuringia.

**MUSCHERT + GIERSE** specializes in the surface treatment of metal and mainly supplies the automobile industry. The supply range is comprised of electroplated zinc deposits and zinc base alloys, cathodic dip coating, as well as the combination of various processes. Good relations with the automobile industry has fostered a continuous exchange of information and knowledge with specialists of client industries. The integrated certification of ISO/TS 16949:2002, as well as continuous investment in most up-to-date plants and process optimisation, make **MUSCHERT + GIERSE** an efficient, competent and reliable partner.



## Processes

At **MUSCHERT + GIERSE**, first-rate plating systems produce long-lasting surfaces for high-quality products. With innovative processes and technologies, we apply organic and/or inorganic coatings in our modern coating plants. The applied technical surface first and foremost serves as corrosion protection and contributes substantially to the valence and sustainability of the products.

**MUSCHERT + GIERSE** offers the following surface treatment technologies:

- Electroplated surface finishes
- Organic surfaces + combinations
- Conversion layers + chemical processes



**FIB**  
Perfekte Oberflächen.  
Aus Leidenschaft.



## Special services

The customer is in the center of our operations. Thus, **MUSCHERT + GIERSE** offers services that go beyond the actual coating process.

- System assembly and completion
- Development of article-specific reusable packaging
- Development of SKID technologies (combination of coating and transporting device to reduce cost intensive handling)
- Direct dispatch at home and abroad with customer specific identification
- Pick-up through area carriers directly at customer premises
- Electronic data exchange (retrieval, delivery notes, IMDS / first sample packs)
- Tests and analyses on inquiry
- Customer training, e.g. Coating Appropriate Construction



## Quality assurance

**MUSCHERT + GIERSE** does not only talk about quality - we live it! The integrated certification according to ISO/TS 16949:2002 together with the fact that **MUSCHERT + GIERSE** is rated as A-supplier with various automobile companies like Volkswagen, Daimler Chrysler, Magna, Autoliv, etc. impressively demonstrates our active and quality-oriented attitude. It is our designated aim to integrate quality, environmental issues and work safety into a system that sharply limits the amount of red tape. Our integral TQM strategy is based on internal and external constants which range from handling customer inquiries to customer satisfaction.

Ecological conservation is the provision for our future - **MUSCHERT + GIERSE** is fully aware of its social responsibility to the environment. Our internal environmental policy is based on ecologically-oriented operations and the careful and responsible use of resources. We are continuously working on optimising our eco-balance: solvent reduction and processes free of heavy metal or cyanide (e.g. Chromium-VI substitutes) are current examples of our environmental activities.



# Laboratory

In 2001 **MUSCHERT + GIERSE** built a state-of-the-art laboratory in which process engineers work on the development of surface treatments and improvement of chemical processes. Here is where article specific applications are developed and production accompanying tests are conducted.



- **Coating thickness measurement**

X-Ray fluorescence method according to DIN 50987

Magnetic induction method according to DIN EN ISO 2178

Eddy current method according to DIN EN ISO 2360

- **Corrosion tests**

Neutral salt spray test according to ISO 9227 SS (DIN 50021 SS)

Condensation water constant atmosphere test according to DIN 50017KK

Industrial atmosphere exposure test according to EN ISO 6988 (DIN 50018 KFW 2,0S)

Cyclic corrosion test according to e.g. P-VW-1210, VDA 621 415 etc.

- **Special tests**

Specular gloss measurement according to DIN 67530

Surface finish measurement according to DIN EN ISO 4287

Chromium-VI evidence at component according to ZVO-method

Endoscopy

Residual waste analysis

A chemical and metallographic laboratory with extensive instrumental analysis and technical equipment is available for special tests.

The documentation of the test results is secured through electronic photo and data archives and can partly be done online.

# Technologies

## Electroplated surface finishes

Coating	Passivation	Chromate Treatment	Sealing	Rack	Barrel
	Free of Chromium-VI	Contains Chromium-VI			
Zinc	Transparent		●	●	●
	Blue		●	●	●
	High Build		●	●	●
	Yellow				●
	High Build	Yellow		●	●
Zinc-Iron 0,3-1,0 %		Black		●	
	Transparent		●	●	●
Zinc-Nickel 12-15 %	Blue		●	●	●
	High Build		●	●	●
	Black		●		●
Base Metals	Steel, cast material, zinc plated material, brass More material on inquiry				

## Organic surfaces + combinations

Coating	Coating formation	Base		Coating thickness	
		Zinc Phosphate	Passivation	Zn/ZnFe/ZnNi	Cathodic dip coating
Cathodic dip coating	Cathodic dip coating	●	●		15-20 μm
	D-Cathodic dip coating	●	●		25-40 μm
Zinc-Zinc base alloy + Cathodic dip coating	Zinc + Cathodic dip coating	●	●	4-20 μm	15-20 μm
	Zinc + D-Cathodic dip coating	●	●		25-40 μm
	Zinc-Iron + Cathodic dip coating	●	●	4-20 μm	15-20 μm
	Zinc-Iron + D-Cathodic dip coating	●	●		25-40 μm
	Zinc-Nickel + Cathodic dip coating		●	4-12 μm	15-20 μm
	Zinc-Nickel + D-Cathodic dip coating		●		25-40 μm
Base Metals	Steel, alloy steel, Fe-cast material, zinc plated material, zinc die casting, aluminium material, brass More material on inquiry				

## Conversion layers + chemical processes

Treatment	Coating weight	After treatment	Film build-up	Rack	Barrel	
Degreasing		Passivation			●	
		Preservation	●		●	
Pickling		Passivation			●	
		Preservation	●		●	
Zinc phosphating	0,5-1,0 g/m <sup>2</sup>	Passivation		●		
		Preservation			●	
	3,5-5,0 g/m <sup>2</sup>	Passivation				●
		Preservation	●			●
10-20 g/m <sup>2</sup>	Passivation				●	
	Preservation	●			●	
Base Metals	Steel, cast material, zinc plated material, brass More material an inquiry					

Special treatment through article specific processes is possible.

## MUSCHERT + GIERSE

**Galvanik GmbH  
Industrielackierungen GmbH**

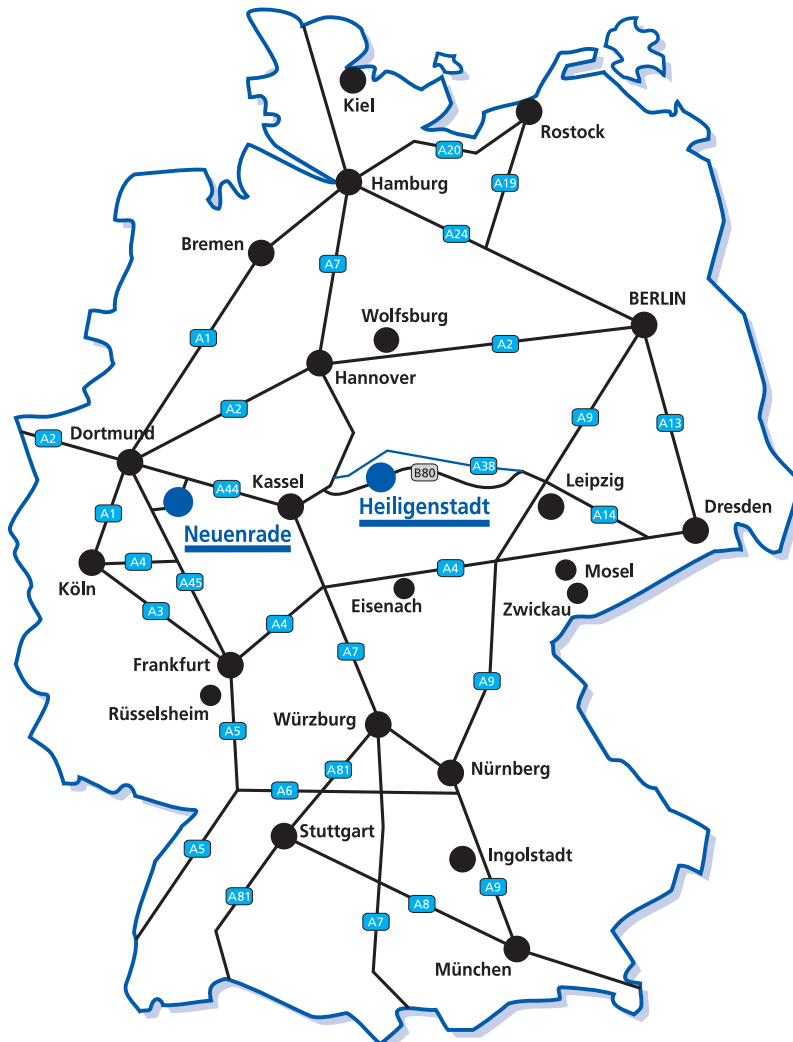
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### Heiligenstadt plant:

From the motorway 7 coming from northern or south direction, you reach Heilbad Heiligenstadt by means of the exit Drammetal, motorway 38 direction Halle / Leipzig;  
Motorway 38 with direct connection Heiligenstadt – Halle – Leipzig

### Neuenrade plant:

From the motorway 45 you reach Neuenrade by means of the exit Lüdenscheid via highway B 229 direction Werdohl / Arnsberg.