



Through own Research & Development  
*... always one coating ahead*

## Coating Portfolio

- **Hard Chrome** (high wear protection)
- **Hot Chrome** (high corrosion protection)
- **Electroless Nickel** (High Phosphorus 10.5-12.0 % mass fraction)
- **Nickel Sulfamate** (Pure Nickel  $\geq 99.99$  % purity)
- **ZiNiTec** (Zinc Nickel)
- **NIBSORB<sup>®</sup>** (neutron absorbing)
- **NICABOR<sup>®</sup>** (highest wear protection)
- **MPC<sup>®</sup>** (Modular Powder Coating)
- **Copper** (cyanide and sulphuric)
- **Bronze** (highest corrosion protection)
  - Yellow Bronze (Tin:  $\sim 12$  % mass fraction / Hardness:  $\sim 300$  HV)
  - Hard Bronze (Tin:  $\sim 30$  % mass fraction / Hardness:  $\sim 500$  HV)
  - White Bronze (Tin:  $\sim 42$  % mass fraction / Hardness:  $\sim 650$  HV)
- **MProtect<sup>®</sup>** (Tin Nickel)
- **NiL35<sup>®</sup>** (sea water resistant according ASTM G48-C)
- **Coating Systems** (combinations of coatings)
  - Hot Chrome / Hard Chrome
  - Electroless Nickel / Hard Chrome
  - Pure Nickel / Hard Chrome
  - Pure Nickel / Electroless Nickel
  - Pure Nickel / NICABOR<sup>®</sup>
  - Bronze / Hard Chrome
  - Bronze / Hard Bronze



Fig.1: Main Plant Solingen



Fig.2: Production Site Mülheim

## Offered Services

- **Product & Project Development**
- **Racks, Jigging, Masking, etc.**
- **Mechanical Treatment**
  - Turning ( $\varnothing 700 \times 3,800$  mm)
  - Grinding ( $\varnothing 800 \times 6,000$  mm,  $\varnothing 600 \times 10,000$  mm)
  - Finishing ( $\varnothing 800 \times 6,000$  mm,  $\varnothing 600 \times 10,000$  mm)
  - Polishing (Inner & Outer Surfaces)
- **Thick Nickel Plating & Electro Forming**
- **Repair Coatings**
- **Selectron Process**



Fig.3: How to find us in Solingen



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## Part Sizes

Depending on size and state of the respective parts more than 60 tanks are available for the fully automated serial production of components. Plating of single parts and from-complex work pieces as well as the production of special coatings are carried out in separate tanks or specifically designed equipment. Rotation-symmetrical parts as for example printing and hydraulic cylinders are deposited vertically rotative, to guarantee a homogeneous, dimensional high-quality coating.

- **Serial Production:**
  - Fully Automated Equipment (*Bathes: 3,000 x 3,000 x 800 mm*)
  - Unit Weight up to 3,500 kg (*Single pieces up to 8,000 kg*)
- **Special Coatings:**
  - Part Diameter up to 600 mm (*Single pieces up to  $\varnothing$  3,200 mm*)
  - Part Sizes up to 7,000 mm (*Single pieces up to 10,000 mm*)
  - Unit Weight up to 100 t (*Single pieces up to 120 t*)

## Contact Persons

MTV NT GmbH is technology and market leader in the field of functional surface technology. With high performance and innovation power the main focus of the company is on electro-plating and mechanical treatment of series parts and special components for mechanical engineering and plant construction as well as the development of new functional coatings for highest corrosion protection and wear resistance. The outstanding quality and high reliability of the MTV coating systems allow many customers an improvement of their competitive position. Thus from being an innovation leader the MTV NT GmbH have become an integrated, comprehensive technology partner.

We are pleased with your interest in the MTV NT GmbH and with pleasure are available for a personal consultation:

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