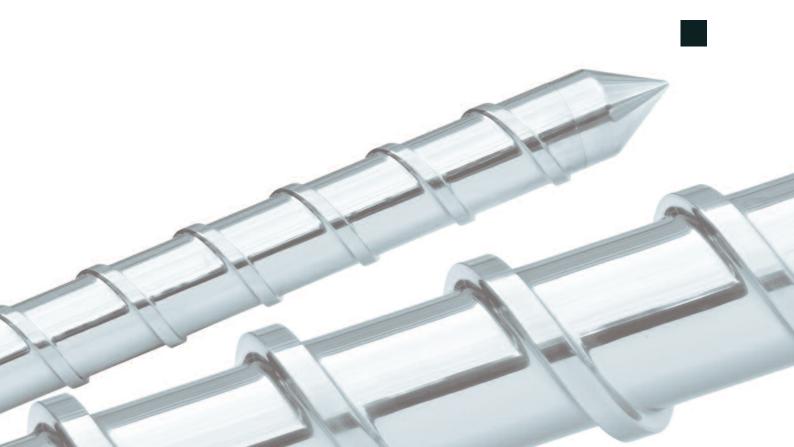


TECHNICAL HARD CHROMIUM-PLATING
AND ELECTROLESS NICKEL-PLATING
FOR THE PLASTICS INDUSTRY



Need something a little more precise?

Mechanical properties, form tolerances and also surface quality of a wide variety of workpieces are crucial to the quality of an end product. You can gain a crucial edge over your competitors here precisely by choosing the right surface-treatment partner. We have made a name for ourselves worldwide as specialists in plating thanks to our state-of-the-art infrastructure and our specialist knowledge, gained over many, many years. We can handle any challenge from matt to rough (Rz \leq 80 μ m) through to mirror-finish high gloss (Rz, Rmax < 0.05 μ m). Our outstanding engineering and precise jig and fixture construction ensure you maximum precision, particularly in the case of complex geometries. Make use of the fine difference.



Technical hard chromium-plating

- Length up to 12 m
- Diameter up to 2.3 m
- Weight up to 25 metric tons



Electroless nickel-plating

- Length up to 2 m
- Width up to 0.6 m
- Height up to 1.6 mm

Larger dimensions on request



Cylindrical grinding

- Length up to 12 m
- Diameter up to 2.3 m
- Weight up to 25 metric tons



Dehydrogenate

- Length up to 8 m
- Diameter up to 2.3 m
- Weight up to 15 metric tons
- Continuously variable temperature up to 300 °C



Injection-moulding machine



Calendar stack for film casting system



Compression mould for PET bottle blanks



Anode construction for spiral mandrel

Variants of technical hard chromium-plating:

- Mass hard chromium-plating, Heavy hard chromium-plating
- Multilayer hard chromium-plating (special M-DURIT® process)
- Matt hard chromium-plating, Electrolytic matt hard chromium-plating
- Structured surfaces with defined roughness
- Special SATIN® process
- Hydrophile hard chromium-plating
- Combined plating (electroless nickel chromium, chromium PTFE)

Base materials:

- All types of steel (including hardened, nitrided and stainless etc.)
- Castings, Aluminium, Zinc
- Copper, brass, bronze, nickel-silver and brazed joints
- Nickel-plated workpieces
- Carbon fibre-reinforced plastics / Glass-reinforced plastic

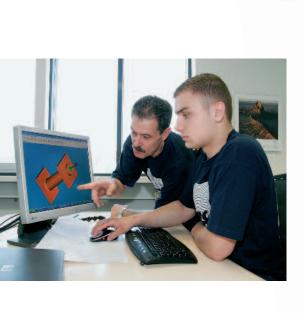
Variants of electroless nickel-plating:

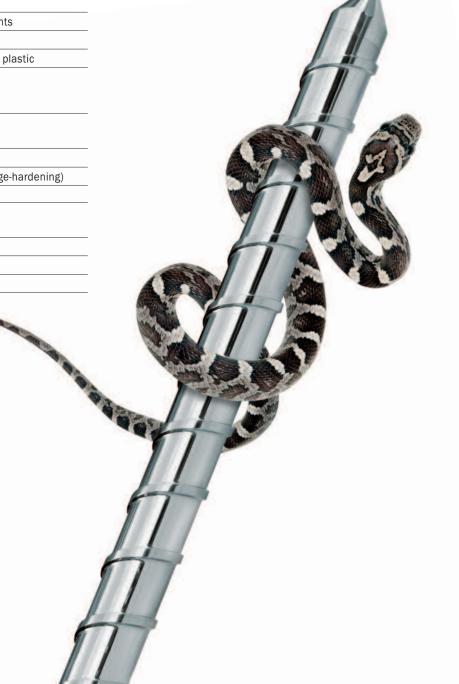
Mass nickel-plating, matt nickel-plating,

including de-embrittlement and heat treatment (age-hardening)

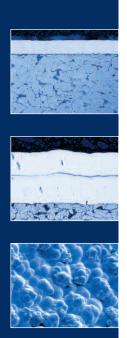
Base materials:

- All types of steel, castings
- Non-ferrous metals, aluminium
- Titanium





Plating variants



Hard chromium-plating (special DURIT® process)

For wear and corrosion protection, to improve the coefficients of friction and adhesion properties and as protection against chemical action

Multilayer hard chromium-plating (special M-DURIT® process)

For workpieces subject to more corrosive ambient conditions, such as hydraulic components, pneumatic components and components for the chemical industry

Matt hard chromium-plating (special SATIN® process)

For production of technical laminates, films, foils, transport rollers, textile rollers (orange peel) and in both the optical industry and the furniture industry



Electroless nickel

Mouldmaking/toolmaking, the plastics industry and general mechanical engineering and machine construction



Hydraulic components in mines and pits, workpieces used in seawater environments and vehicle construction, extrusion systems





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