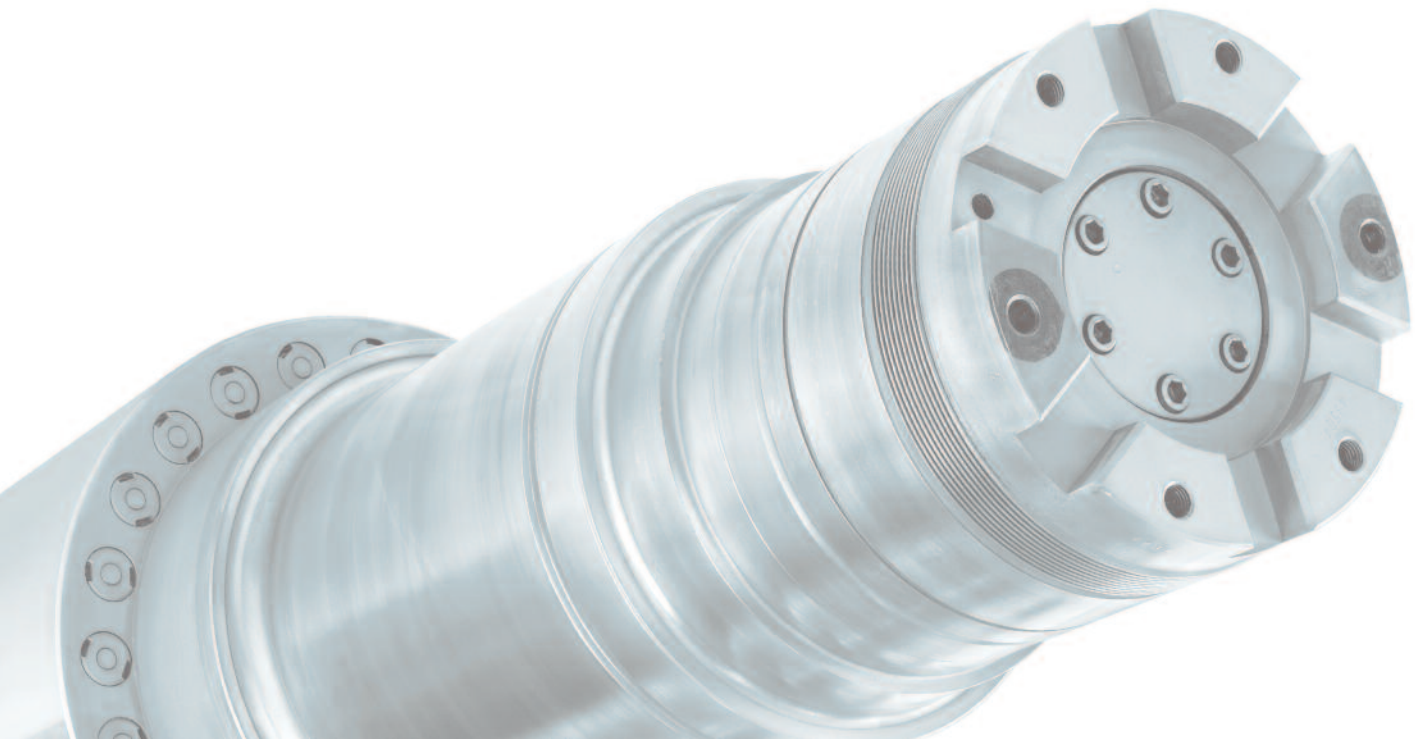


**CYLINDRICAL GRINDING AND
TECHNICAL HARD CHROMIUM-PLATING
FOR THE ROLLER AND ROLL INDUSTRY**



Need something on the big side?

Mechanical properties, form tolerances and also surface quality of rollers and rolls are crucial to the quality of an end product. You can gain a crucial edge over your competitors here precisely by choosing just the right surface-treatment partner. We have made a name for ourselves worldwide as specialists in all types of technical hard chromium-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 ($R_z \leq 80 \mu\text{m}$) through to mirror-finish high gloss ($R_z, R_{\text{max}} < 0.05 \mu\text{m}$) or even hydrophilic. Size is no object for us either: We can treat workpieces with diameters up to 2,300 mm and overall lengths of up to 12 m.



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

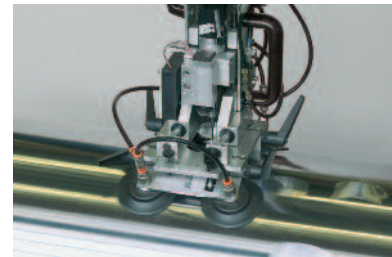
- Length up to 8 m
- Diameter up to 2.3 m
- Weight up to 15 metric tons
- Continuously variable temperature up to 300 °C



High gloss-polished roll for the film industry



Calender for plastic film production



Repair of pores in a chill pass roll



Larger sizes on request
Cylinders in our large-format workpiece shop

Variants of technical hard chromium-plating:

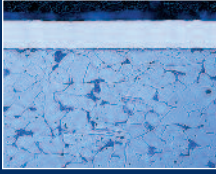
- Mass hard chromium-plating
 - Heavy hard chromium-plating
 - Multilayer hard chromium-plating (special M-DURIT® process)
 - Matt hard chromium-plating
 - Electrolytic matt hard chromium-plating
 - Structured surfaces with defined roughness
 - Special SATIN® process
 - Hydrophile hard chromium-plating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

Base materials:

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

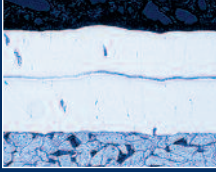


Plating variants



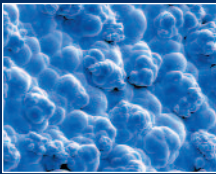
Hard chromium-plating (special DURIT® process)

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



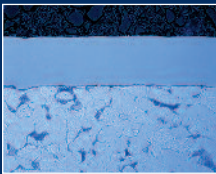
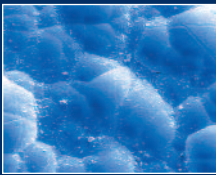
Multilayer hard chromium-plating (special M-DURIT® process)

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



Electroless nickel, hard chromium

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

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