

**We speak Surface Technology  
for computer controlled chrome plating.**



**STI  
Hartchrom**

*The precision company*

# Chrome Plating of Metering Rods



If precisely coated finished products and utmost economic efficiency are what is aimed for, metering rods will be among the measures to achieve these goals. Accordingly, Hartchrom AG Steinach has designed an innovative continuous plating facility which turns metering rods into a precision instrument with a long lifespan. Profiled and zero metering rods up to 12 meters in length are coated one by one according to individual parameters in our computer-controlled chrome plating facility.

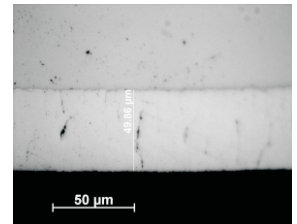
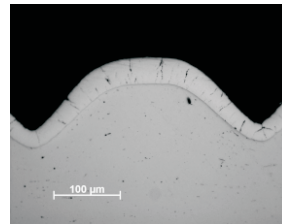
Computer-controlled continuous chrome plating ensures the exact control of all physical parameters. Extremely evenly distributed layers and a precise contour definition are the result. Closest tolerances increase the metering rods' functionality and the quality of the finished product decisively. Moreover, they allow for the exact reproduction of a successful plating. Higher layer thicknesses and a significantly stronger hardness result in maximum wear resistance, higher lifetimes and less downtime.

Thanks to a long-term strategic partnership, this computer controlled chrome plating technology will be the standard for all metering rods of Horst Sprenger GmbH, the market leader for dosage systems in the paper industry. The technology is applied, for example, as a partial innovation of the patented Combi-System of Horst Sprenger GmbH. The Combi-System for rod coaters and film coaters allows for the easy replacement of individual wear and tear elements. Together with the increased functionality and lifetime of the individual wear and tear elements, including the rods, the Combi-System allows for savings of over 50% compared to the customary systems in the market.

## Metering rods

surfaced by **Hartchrom**

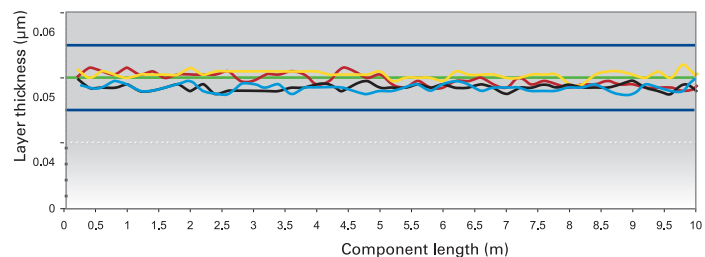
**HORST SPRENGER**



### Surface specifications

■ Hardness	> 1,000 HV 0.1
■ Standard layer thicknesses	profiled rods 25 µm + 5 µm zero rods 50 µm + 5 µm
■ Surface	without defects
■ Surface dispersion axial	± 3 µm (Lges) ± 2 µm (L < 1,000 mm, no short waves)
■ Surface dispersion radial	± 2 µm
■ Component dimensions	500 - 12,000 mm length 9.75 - 40 mm diameter

### Layer thickness distribution



**STI | Hartchrom is a subsidiary of AFG Arbonia-Forster-Holding AG, Arbon (CH)**

#### We are STI | Hartchrom®

Surface Technologies International Holding AG Switzerland  
Hartchrom AG Steinach Switzerland  
Hartchrom Defense Technology AG Steinach Switzerland  
Hartchrom Inc. Watervliet NY USA  
Hartchrom Schoch GmbH Sternenfels Germany

Cromotec Oberflächentechnik GmbH Sternenfels Germany  
Hartchrom Teikuro Automotive GmbH Sternenfels Germany  
Hartchrom Teikuro Automotive AG Steinach Switzerland  
Hartchrom Aeronautics Europe Steinach Switzerland  
Hartchrom Aeronautics France SA Paris France

Hydrométal SA Arudy France  
Chromage Pyrénéen SA Oloron-Escout France  
STI Shanghai Ltd, Shanghai China

#### Representations in

Belgium Luxembourg  
Finland Netherlands  
Great Britain Norway  
Italy Singapore  
Korea Spain