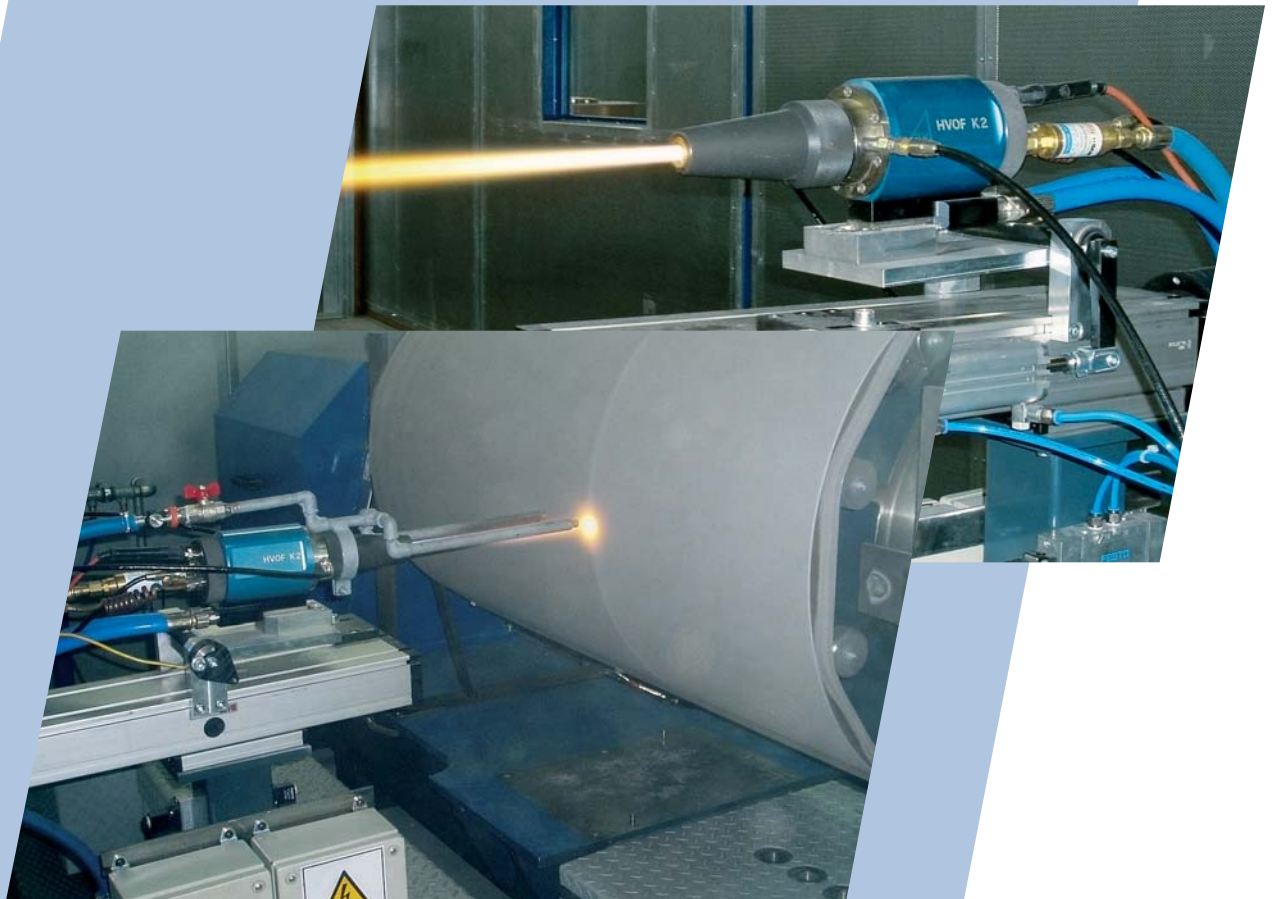


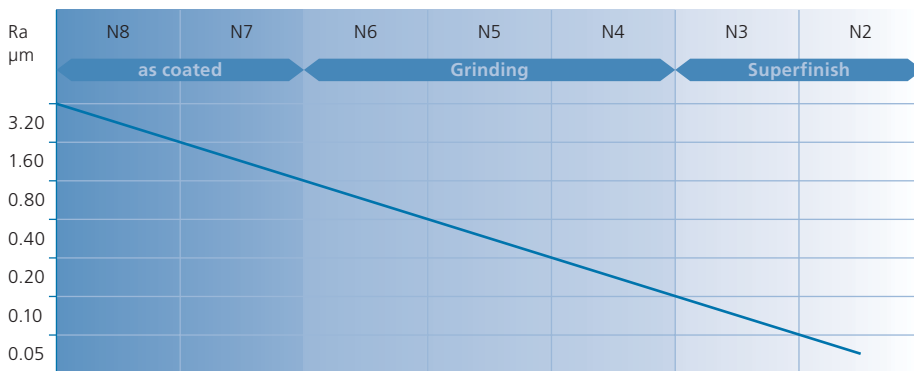
Chrome replacement by HVOF Carbide coatings for maximum requirements



High gloss surface with superfinish
Extreme hardness and maximum wear resistance
Properties as for solids
Mechanical strength due to residual compressive stresses
Individual design due to selection of matrix and carbide
Application on steel, light alloys, ceramics and compound materials

Kerosene HVOF by K2-System

The HVOF system operated with kerosene enables us to produce homogenous carbide coatings with minimum porosity cost effectively. Both of these are conditions for extreme wear protection, also for applications in liquids or seawater. These coatings can be adapted to any specific application, including hot grinding. We will be pleased to help you find the solution to your individual requirements.



Surface roughness of a tungsten carbide coating as a function of the machining status, displayed in terms of the average roughness Ra

Property profile

- 5–12 times better abrasion resistance as galvanic hard chrome coatings
- Surface quality for maximum requirements, see diagram
- Layer thickness in mm range possible
- Hardness adjustable from 800 to 1400 HV according to application profile
- Operating temperatures up to 850°C

Application spectrum of carbide coatings

- Erosion protection for temperatures up to 850°C (e.g. maritime diesel engines)
- Extreme abrasion protection, for example for application rollers or paper calenders
- Close-contour coating of complex geometries without reworking (e.g. corrugating rolls)
- Also high gloss surfaces through superfinishing (e.g. for film production)



Set-up of the K2 system for carbide coating of the rollers



Typical calender roller of the plastic film industry ready for coating



Overview of the system with sound insulation cabin, maximum component length 10 m

Buser coating processes – modern technology combined with experience and knowledge.

Development and production of surface coating is our speciality. As a result of long years of experience we are able to offer sophisticated technology for a multitude of applications in all branches of industry – for individual components, serial production and repairs.

Our coatings enable the low-cost, custom-made manufacture and reconditioning of high quality industrial components.

We coat serial components up to 15 tons in weight and up to 8 meters long. Please contact us with enquires for larger parts.

We are the only company in Switzerland to offer both plastic, metal, ceramic and tungsten carbide coatings and hardplating welding and repair welding of castings as well.

Coated components stand up to the test of toughest application conditions protecting against wear and corrosion and offering thermal and electric insulation. The quality of our work is underlined by the certification to ISO 9001 and GTS.

Our service in surface technology:

- competent, extensive advice
- design and production of workpieces
- preparation of the workpieces to be coated.
- coating to defined specification
- on-site coating
- quality control with report
- packing and shipping worldwide

Extreme hardness
Maximum wear resistance
Minimum porosity
Superfinish

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