

HARTCHROM[®] KANICHROM[®]

PRECISION CYLINDRICAL GRINDING

The optimum corrosion protection

Hard chrome

Hard chrome enjoys high significance as wear- and corrosion-protection coating due to its known and tested qualities. In our modern hard chrome plating plant, we can process workpieces up to a length of ~13 metres and a weight of ~25 tonnes.

What is KANICHROM[®]?

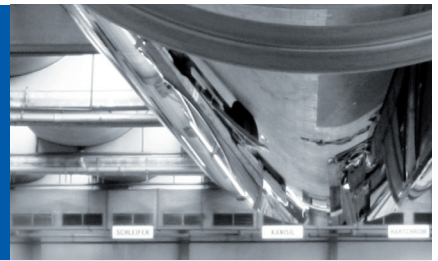
KANICHROM[®] is a widely known name for the successful combination of two coats with extraordinary properties: KANIGEN[®] and hard chrome. With KANIGEN[®] as barrier layer between base material and hard chrome, an optimum corrosion protection is combined with the known advantages of hard chrome plating.

Precision cylindrical grinding

Our precision cylindrical grinding shop is equipped with top quality cylindrical and roll grinding machines, belt grinders and polishing machines. We undertake upstream and downstream grinding works on workpieces up to a length of ~13 metres and a total weight of ~25 tonnes.



HARD CHROME / KANICHROM® / PRECISION CYLINDRICAL GRINDING KANIGEN® and hard chrome provide for an optimum corrosion protection with the renowned advantages of hard chrome plating.



The advantages:

Cost reduction

- Enables the use of low-quality base material
- Simplifies production, particularly in the area of chipping
- Offers excellent wear and corrosion protection
- Enables the recovery of the target state
- Combines the properties of KANIGEN® and hard chrome both in chemical and physical-mechanical area
- High availability in terms of scarce resources
- High dimension accuracy without mechanical intermediate and end processing

Quality enhancement

- Coating quality reproducible at the same level
- Competitive advantages by the increase in product quality with simultaneous cost reduction
- High dimension accuracy of the KANICHROM® layer without refinishing operation, to a large extent independent of material
- A very thin layer undertakes additional functions for the base material
- Combines the corrosion protection features of KANIGEN® and hard chrome

Ideal for repairs with true to size layer application!

We process workpieces up to a length of ~13 metres and a diameter of ~1.4 metres with a total weight of up to ~25 tonnes.

The features:

Unmatched combination properties!

KANICHROM® is a double coat made of KANIGEN® and hard chrome. As amorphous barrier layer, KANIGEN® offers a perfect corrosion protection against a multitude of aggressive chemicals. The well-known qualities of hard chrome (hardness, wear-resistance and sliding properties) are ideally combined with the features of KANIGEN®.

This coating combination prevents undercorrosion, as the enclosed KANIGEN® coating undertakes a block function below the micro-fissured chrome layer.

The workpiece obtains surface qualities through KANICHROM® that is offered by no base material.



Illustration of a KANICHROM® layer on steel at 150 times magnification.

As hard chrome is applied on the especially uniform KANIGEN® layer scarcely thicker than 20 µm, the otherwise well-known edge-forming effect of galvanised chrome is dispensed with.

In the said combinations, KANICHROM® can be set up true to size in the narrowest tolerances without refinishing work.

Hard chrome

Hard chrome is an integral part of surface engineering. This traditional process offers excellent wear protection properties and corrosion protection with low adhesivity. We have advanced this technology for your benefit. Our hard chrome plating plant makes use of new generation technology.

Precision cylindrical grinding

The coating quality can be optimised by the machining of the base material surface. For that reason, we undertake for you upstream and downstream mechanical processes on your workpiece.

Our precision department is equipped with top quality cylindrical and roll grinding machines, belt grinders and polishing machines. We process parts up to a length of ~13 metres and weight of ~25 tonnes and that in qualities up to surface finish of $Ra \leq 0.01 \mu m$. The workpieces are processed ready for assembly.

Larger-dimension workpieces can also be processed in individual cases after consultation.



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