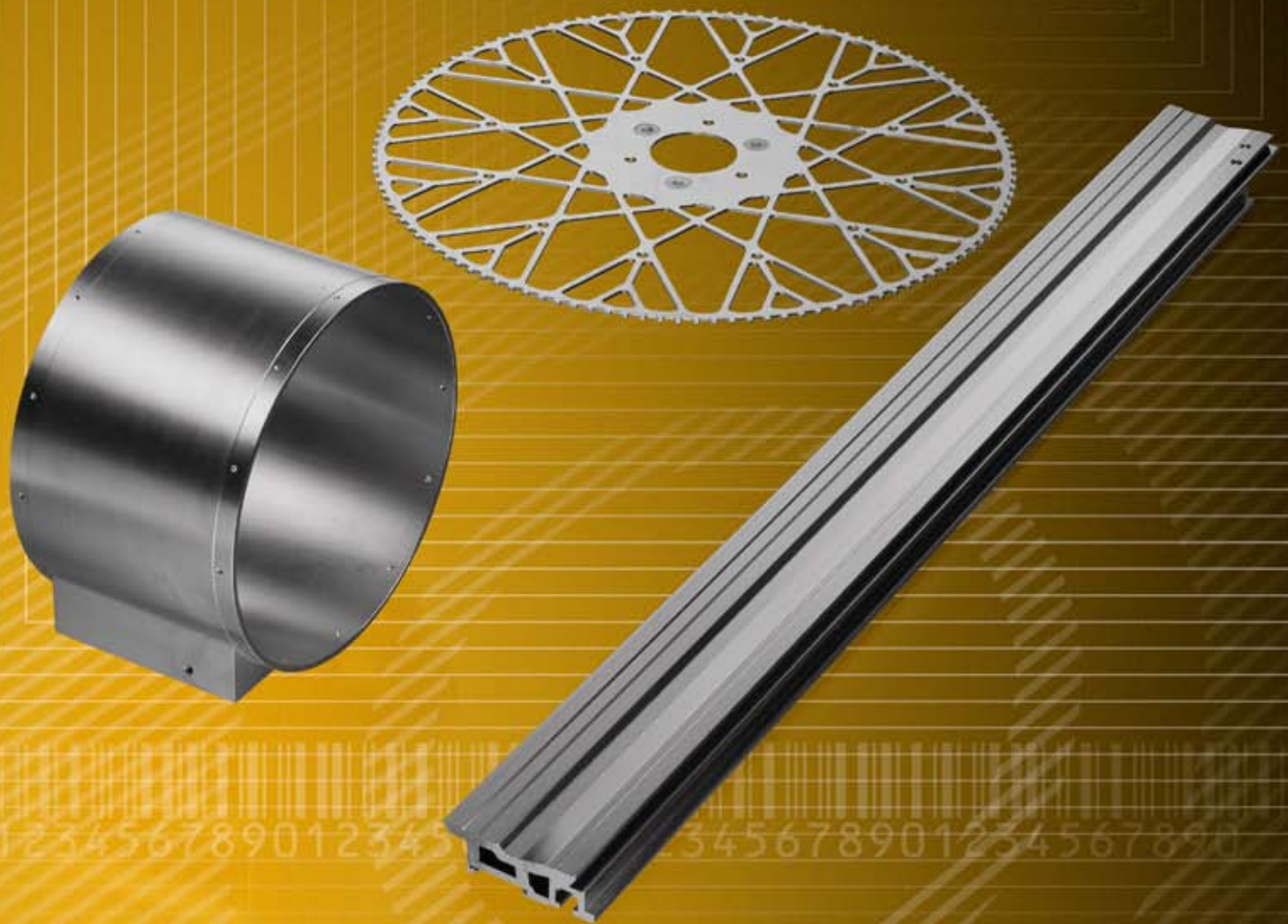


Electroless Nickel



DURNI-COAT® - DNC 520

DURNI-COAT® - DNC AL

We add value to your parts

Elektroless Nickel (DURNI-COAT®)

DURNI-COAT®, also known as DNC, is a surface treatment that is tuned to material and their processing and application. The main purpose of the DNC surface treatment is to provide machine components in all sectors of industry with protection against wear and corrosion, while at the same time fulfilling other application demands.

The electroless deposition of DURNI-COAT® layers is based on a reduction into metallic nickel of the nickel ions present in the aqueous process solution. The chemical reacting agents and formulators of the electrons required in this process are the hypophosphite ions in the solution. These agents transform themselves, by oxidation in the course of the reaction, into orthophosphite and are also responsible for the phosphorus content of the deposited DURNI-COAT® layers.

Suitable Alloys

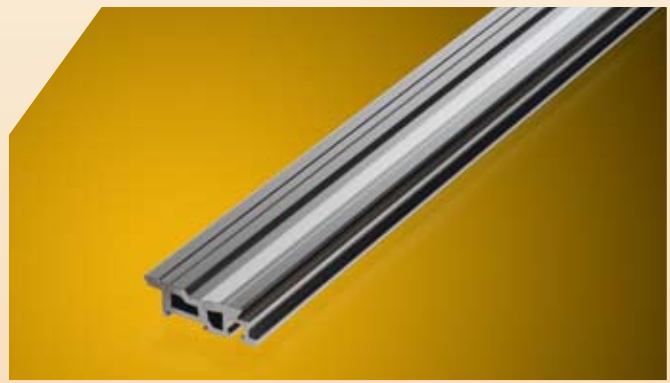
The range of base materials suitable for treatment with DURNI-COAT® includes most of the industrial used metals as well as plastics:

- Ferritic steel
- Cast iron-based materials
- Stainless steel
- Non-ferrous metals such as copper, brass and bronze
- Aluminum alloys
- Die-cast zinc
- Titanium alloys
- Magnesium alloys
- Sintered metal materials
- LCP
- Other metal and ceramic-based materials (depending on previously-supplied sample coatings)



DURNI-COAT®-Surface Finishing can be perfectly used for applications with specific requirements

- Excellent corrosion resistance
- Resistant to erosion
- High wear resistance
- Elongation at break up to 2%
- Uniform layer formation
- Good dimensional stability
- Outstanding hardness
- Magnetic and/or anti magnetic properties (depends on variant)
- Suitable for contact functions and soldering
- Surface conductivity
- Perfect non-friction properties
- Good chemical resistance



Maximum Size

Main process	Alloy	Max. size	Max. weight / part
DNC 520	Steel	3.600 x 500 x 850	750 Kg
	Titanium	800 x 500 x 700	200 Kg (more on request)
	Magnesium on request		
DNC AL	For Aluminum only	1.900 x 500 x 750	500 Kg