

KP Galvano s.r.o.
COMPANY PROFILE

KPG



50% PLASTIKA a.s.

50% KOVOFINIŠ a.s.

PLASTIKA a.s.

- **50%** co-owner of KP Galvano s.r.o.
- More than **60 years of experience** in the plastics industry
- Nearly **90%** of total production is concentrated on **automotive**
- Product design, development & tool production, surface treatment, assembly
- Flexible technical solutions in development, production and logistics
- Intense and integrated customer relationship

KOVOFINIŠ a.s.

- **50%** co-owner of KP Galvano s.r.o.
- Almost **70 years** in manufacturing surface treatment equipment
- Experience in automotive, aerospace and engineering
- Development and design capacity including programming
- **Strong support**: Service and support at the new plant site
- Possibility of quick reaction to changes and new customer requirements as well as changes in legislation

A photograph of an industrial facility, likely a steel mill or refinery, featuring a complex network of blue steel structural beams and yellow pipes. The background is a large, light-colored building with a blue horizontal stripe near the base. The sky is clear and blue.

Start of production 4Q/2020

Galvanic line

- Fully automated
- Designed for plating **ABS** and **ABS/PC**
- Maximum batch dimension **2600 × 300 × 1200 mm**
- Maximum yearly capacity **300 000 m²**
- Designed for pretreatment possibilities with hexavalent Cr and also chromium-free
- Final chromium plating is possible in hexavalent and also trivalent Cr: trivalent Cr sulfur and chloride

PLATING POSSIBILITIES ACCORDING TO TL528

According to specification for each part line provides plating in baths:



**Microporous
nickel**



**Microcracked
nickel**



**Satin
nickel**

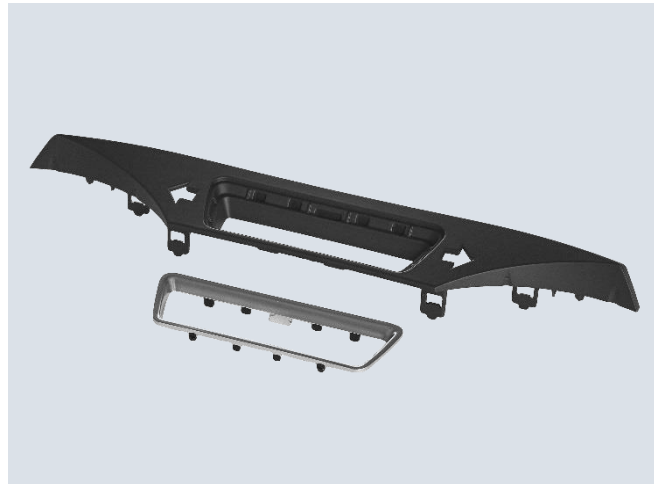
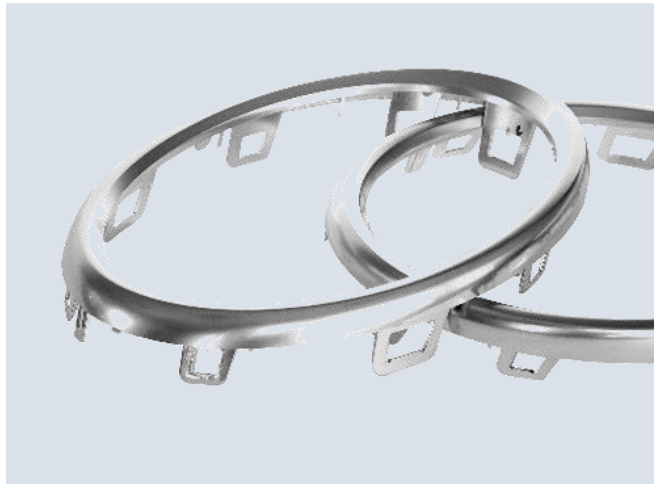
EXTERIOR PARTS

EMBLEMS, LETTERS, GRIP MOLDING

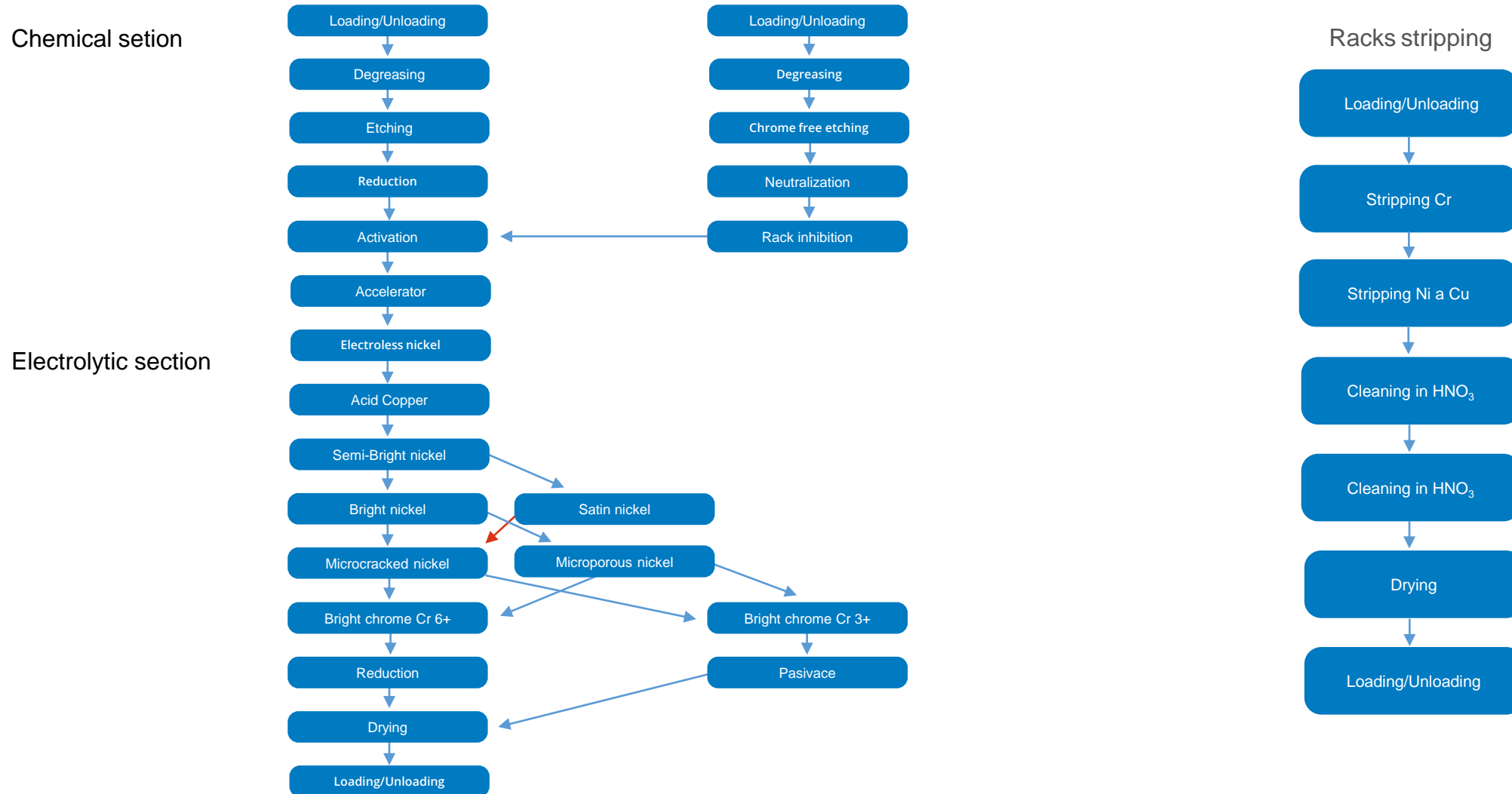


INTERIOR PARTS

PARTS FOR CLUSTERS – RINGS, FRAMES



PLATING PROCESS DIAGRAM



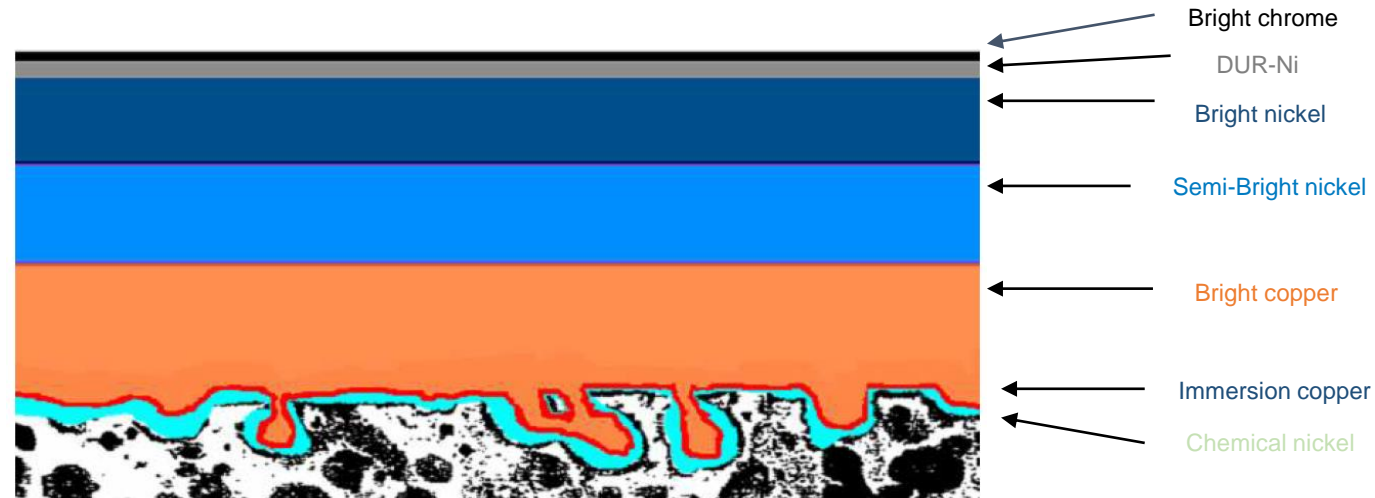
PROCESS MONITORING

SOLUTION ANALYSIS

- Testing parameters of galvanic baths
- Quality control/process monitoring/optimize galvanic process

MATERIAL TESTING

- Quality control of chrome coated plastic parts
- Chrome-coated plastic parts – analysis of defects and causes of origin



SOLUTION ANALYSIS CAPABILITY

- Surface tension measuring
Bubble pressure method, Wilhelmy Plate, DuNoüy ring
- Atomic emission spectrometry
- Hull Cell
- pH, conductivity, density determination
- UV/VIS Spectrometry
- Analytical determination of baths parameters - titration



MATERIAL TESTING CAPABILITIES

- Visual properties (visual evaluation and color matching)
Matte chrome surfaces, high gloss chrome surfaces
- Coating system analysis-coating thickness
Microscopically, coulometric, STEP Test, X-ray fluorescence, Fuhrmann test
- Adhesive strength
Cross-cut test
- Temperature resistance and resistance to environmental cycle test
Stability under heat, resistance to sink marks, PV 1200
- Corrosion resistance
CASS test, PV1200 followed by NSS Test
- Verifying the origins of defects – chrome plated plastics parts
Cut, sample encapsulation, microscopic evaluation





THANK YOU
FOR YOUR ATTENTION.

KPG

