

El Bajío, Oct. 5th, 2023

Collini

Unternehmen Oberfläche *Applied Surface Intelligence*

Collini-Group
For STABILUS

Content



Brief introduction – Collini Group



Our competence in coating and plating



Our presence in Mexico



since 120 years

We experience the world through
surfaces.

Flexibility, innovative power, and efficiency in
surface technology.

History

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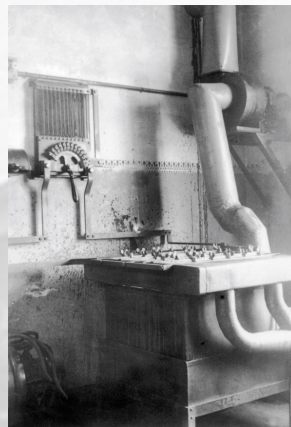
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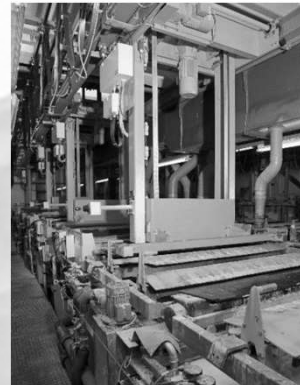
Damian Collini opens a scissors grinding shop in Hohenems, Austria

1898



Setup of Austria's first chromium bath

1928



Setup of Austria's first fully automatic galvanising line

1962

Founding of Collini Holding

over the years
locations set up in AT,
CH, DE, RU, IT and
MEX

1990

International group growing into a global market leadership position

15 Locations
>50 Nationalities
70 Apprentices
75 Coating Lines
100 Engineers
300 Surface Technicians
1700 Employees in total
300m EUR in Revenue

Today

Outlook of our global presence



VISION

Creation of an international active Surface Technology Enterprise with strong market position.



MISSION

We understand, what our customer actually needs.

We promote and challenge our customers to improve their competitive position.

We learn and act fast.

We grow and become the leading enterprise with Surface Technologies.

Our technology portfolio

Electroplating



With galvanizing electric power or chemical processes are used to apply metal out of a metal salt solution onto substrates.

Anodizing



Anodizing is an electrolytic process to create Oxide layers upon light metals.

Hot dip zinc



Steel parts receive a zinc layer by dipping parts into a liquid zinc bath. A thermal reaction among iron and zinc creates a strong bond of the layer to the substrate achieving high corrosion resistance.

Organic Coating



Powder coating is a painting process, Electro-static enhanced paint powder particles are attracted to the surface.

Diversity in our portfolio

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Chrome



Gold



Nickel



Zinc



Al-Anodizing



Hot Dip Zinc



Electroless Nickel



Hardchrome



Silver



Zinc/Nickel



Hard-Anodizing



E-Coat (KTL/ATL)



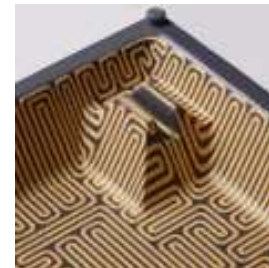
Zinc/Iron



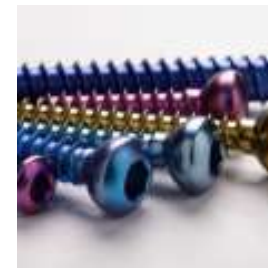
Tin



Copper



Composites & Alloys

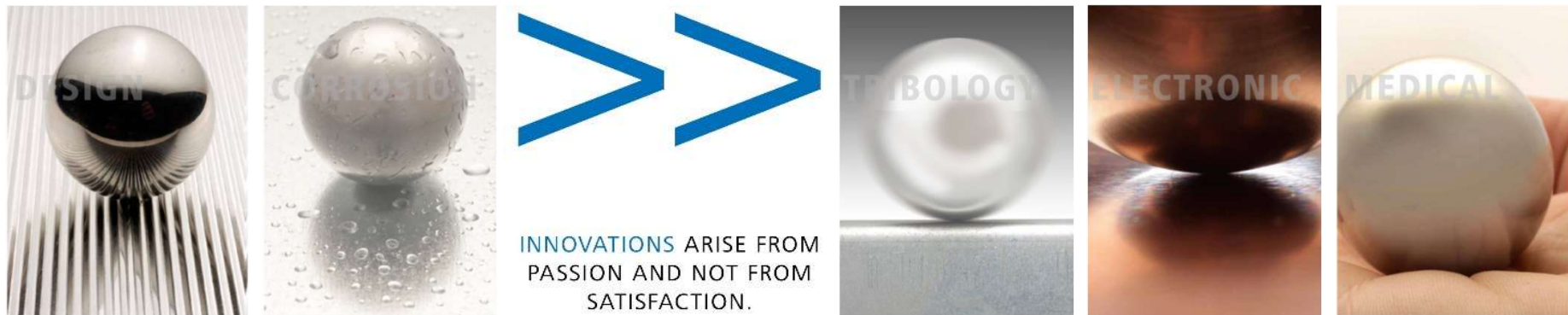


Ti-Anodizing



Powder Coating

Our core competence
Your added value



Collinox®, Glatox®, SkinTech®, Triflon®, Collossal®, Duor®, XCOR®, Galvatronic®,
Opptalloy®, Optragen®, Pallatronic®, Tribor®, Niphoplate®, Collidur®, Collimed®,
Pallodal®, Triboplate®, Turbocel®, GGHG®, Nicoll®, GG_D®, Ductalloy®, etc.

Collini - your partner for all applications and destinations

Hohenems (AUT)



Civate (ITA)



Vienna (AUT)



Dübendorf (SUI)



Biel (SUI)



Bludesch (AUT)



Bürmoos (AUT)



Judenburg (AUT)



Marchtrenk (AUT)



St. Pantaleon (AUT)



Asperg (GER)

Puebla (MEX)



El Bajio (MEX)



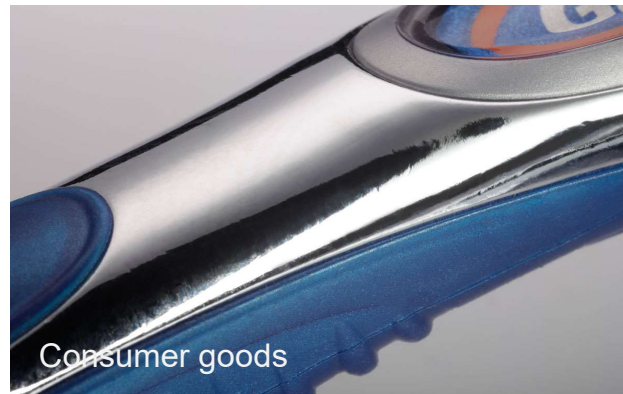
Nizhny Novgorod (RUS)



Our competence centers for innovative Solutions

Hohenems (AUT) Civate (ITA) Zhenjian (CHN)	Corrosion protection / Design, Zinc-Diecast, Anodizing
Wien (AUT)	Tribological attributes, Alu-Alloys, (Hard-) Anodizing
Duebendorf (CHE)	Electrical attributes, technical plastics, Titanium (-Anodizing)
Biel (CHE)	Coil-to-Coil coating
Asperg (GER) Puebla (MEX) El Bajío (MEX)	Cathodic corrosion protection on steel
Nizhny Novgorod (RUS)	Corrosion protection / Design
Bludesch (AUT) Bürmoos (AUT) Judenburg (AUT)	Hot dip zinc, passivation zincomet plus
Marchtrenk (AUT) St. Pantaleon (AUT)	Corrosion protection by E-coating and powder coat

Collini supports world market leaders



High volumes with interesting price models



Asperg, GER: Biggest ZnNi line in Europe in its days



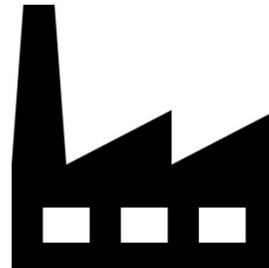
El Bajío, MEX: Biggest ZnNi worldwide



El Bajío, MEX: Specific product dedicated line with e-coat and powder coat



Europe: Fully automated lines for coating in barrel of furniture parts



Product Specialized Coating Lines



Hohenems, AUT: Highly automated line for decorative plating of razor arms

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The surface makes the difference.



www.collini.eu

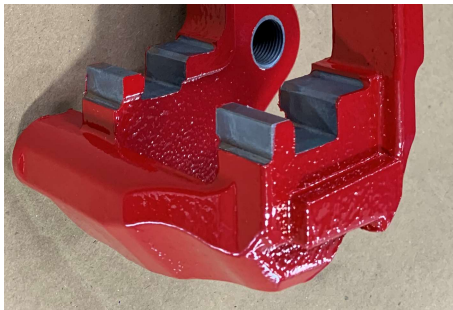
Powder Coating Process

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Collini primarily focusses on powder coating and cataphoresis (CDP) – a proven combination in the automotive industry. The design options in terms of colour, structure and gloss are limitless, while also providing optimal corrosion protection.



Powder Coating Process

Process Specifics

Process: Powder coating (electrostatically sprayed)

Coating Colour: Wide colour spectrum (RAL, NCS, metallic)

Base Material: Grey cast iron

Corrosion protection: More than 1000 h NSST

System technology: Corona

Conformity: RoHS, REACH, 2000/53/EC (End of life vehicle)

Protective Properties: Protection against corrosion, chemical influences, UV rays, high weather resistance

Decorative Properties: Wide variety of colours (RAL, NCS, metallic), gloss level from matt to silky gloss to high gloss, smooth surface finish, fine structure or coarse texture can be achieved

01

Technical Support and 30+ years experience in powder coating for mobility applications within the Collini group

02

2+ years experience at El Bajío, Mexico processing duplex system (ZnNi + powder coat) of brake parts

03

More than 1 year with 0 quality claims at El Bajío

04

Current rework rate less than 5% at El Bajío facility

Powder Coating Process Flow



... Updated state for Mexico so far

Process overview

SOP

Zn & ZnNi (alkaline, acid)

2016 ✓ (PU, EB)

Powder Coating

2021 ✓ (EB)

E-coating + Powder Coating

2021 ✓ (EB)

Puebla



El Bajío



Certifications at Mexico

- ISO 9001 in place
- IATF 16949 prepared, certification Q1'2024
- ISO 14001 planned

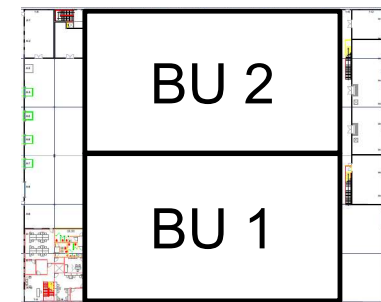
Group certifications worldwide

- ISO 9001 all locations
- ISO 14001 All Austrian locations, DE-Asperg
- IATF 16949 DE-Asperg, AT-Vienna, RU-Nishny
- Other

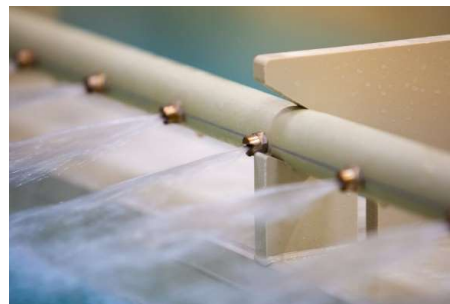
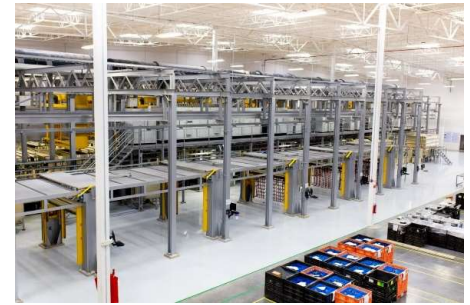
All certifications can be downloaded at <https://www.collini.eu/downloads>



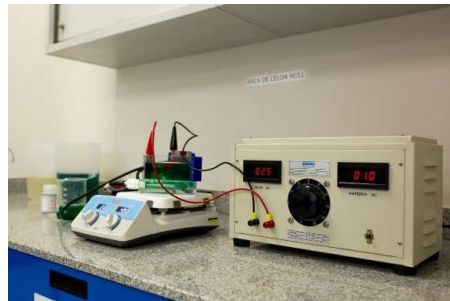
Impressions



ZnNi / Zn - Process line



Laboratory & Misc equipment



Contact Information

Pablo Morales
Managing Director

Collini

| Unternehmen Oberfläche
| Applied Surface Intelligence
| Collini S. de R.L. de C.V. Apaseo El Grande
| T +52 (442) 628 3553
| www.collini.eu PMorales@collini.eu

Klaus Waldhardt
Key Account Manager Automotive

Collini

| Unternehmen Oberfläche
| Applied Surface Intelligence
| Collini Wien GmbH A-1210 Wien
| T +43 1 2788614 3210 | M +43 664 8837 5999
| www.collini.eu kwaldhardt@collini.eu

Mauricio Camacho
Sales Manager

Collini

| Unternehmen Oberfläche
| Applied Surface Intelligence
| Collini S. de R.L. de C.V. Apaseo El Grande
| T 0
| www.collini.eu MCamacho@collini.eu

An aerial photograph of a beach at low tide, showing a vast expanse of sand with complex, wavy, and ridged patterns. The patterns are created by the receding water, forming a series of parallel ridges and troughs that flow across the frame. The lighting is bright, casting shadows that emphasize the three-dimensional texture of the sand. Some small, dark objects, possibly pieces of driftwood or debris, are scattered across the surface.

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