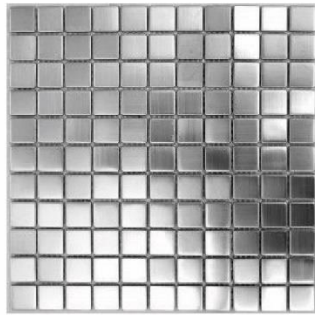
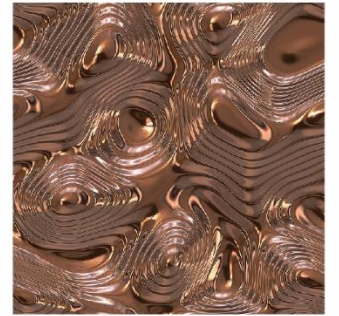
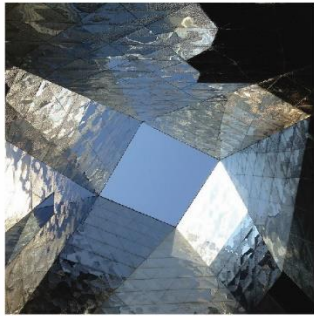
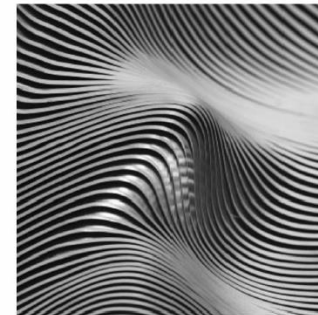


Surtec-Eurosaj

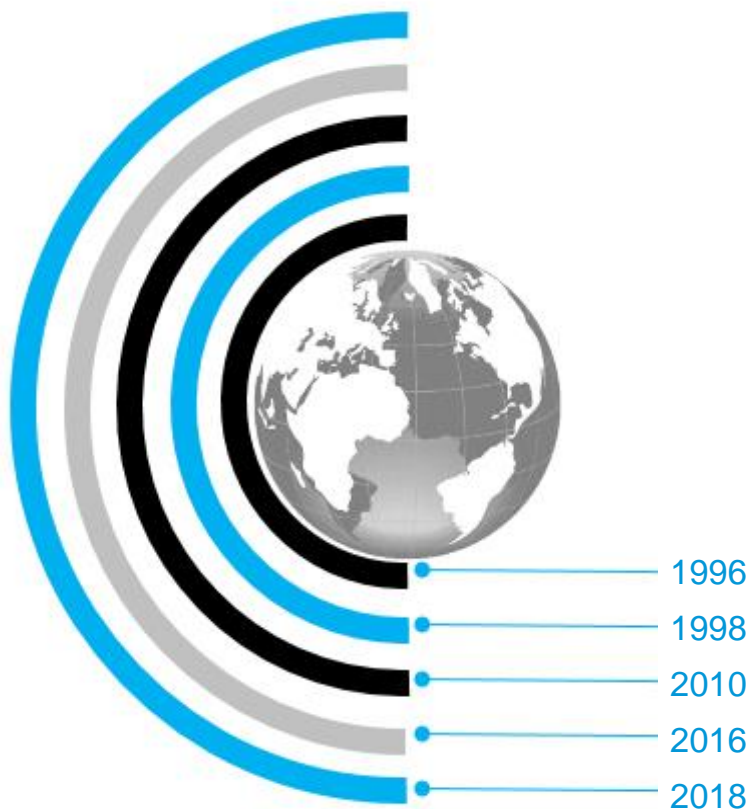


We deliver excellence

<http://www.surtec-eurosaj.ba/>



- Introduction
- Implemented standards in business
- Surtec-Eurosaj today: technology and production capacities
 - I. Galvanic protection processes
 - II. Hot dip galvinizing
- Brands and dealerships
 - I. SurTec
 - II. Kluber
 - III. OKS
- Mission and Vision



1996 SURTEC-EUROSJAJ WAS FOUNDED IN 1996 AS ONE OF THE FIRST 'JOINT VENTURE' ACTIVITIES IN BIH WITH THE COMPANY SURTEC INTERNATIONAL (GERMANY).

1998 INSTALLED FIRST ELECTROPLATING SURFACE PROTECTION PRODUCTION LINES.

2010 SURTEC-EUROSJAJ BECOMES 100% BOSNIAN COMPANY AND HOLDS DEALERSHIPS FOR KLUBER AND OKS BRANDS.



2016 SURTEC-EUROSJAJ INSTALLS FIRST HOT DIP GALVANIZING TECHNOLOGIES.

2018 SURTEC-EUROSJAJ REGISTERS COMPANIES EUROSJAJ IN CROATIA AND EUROSJAJ IN SERBIA.

ABOUT

4

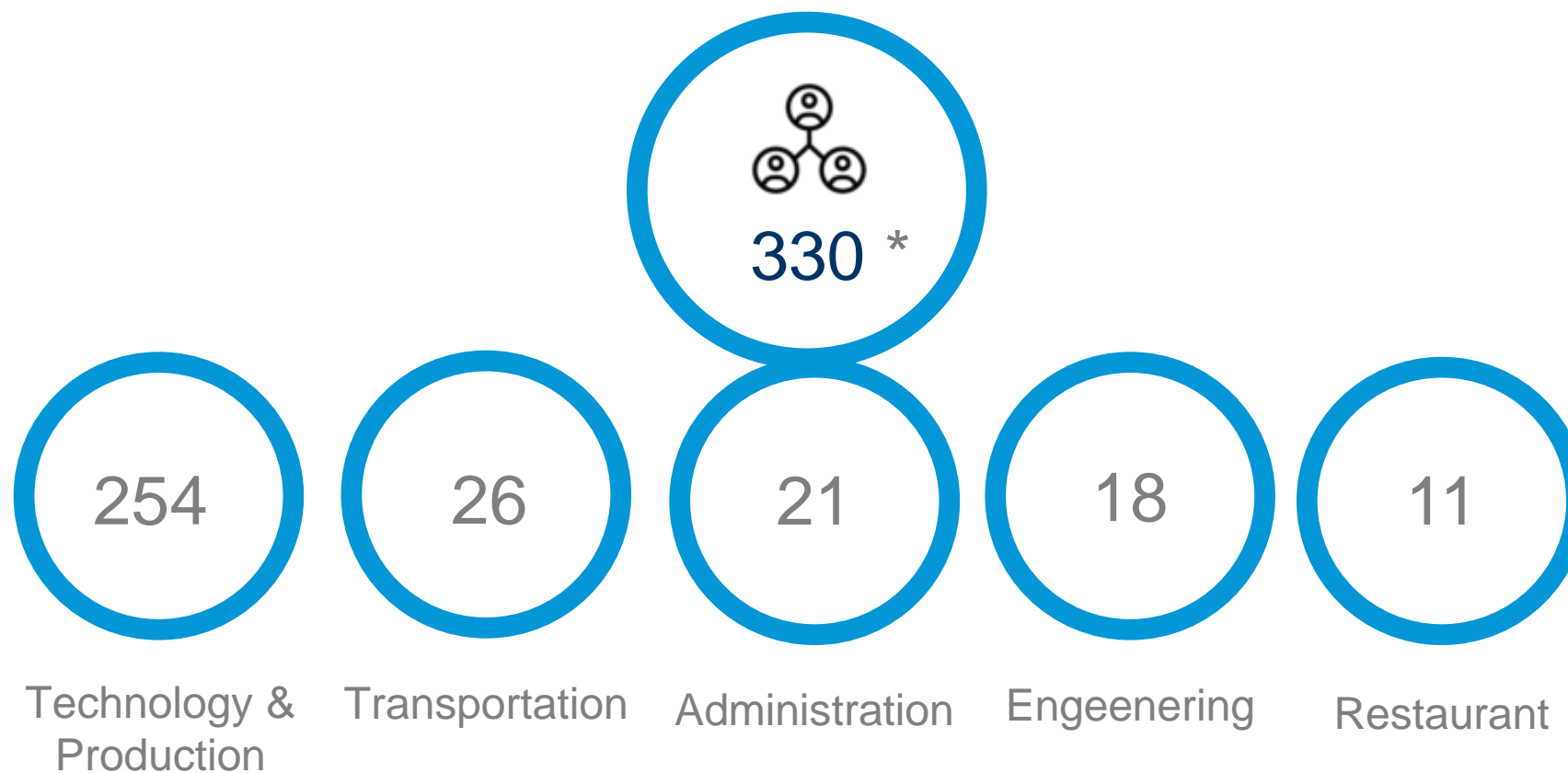
COMPANY IS LOCATED IN INDUSTRIAL ZONE
„UNIS“ IN KONJIC, BOSNIA AND HERZEGOVINA.



ALL FACILITIES INCLUDING
PRODUCTION PLANTS,
OFFICE BUILDING,
STORAGES,
LABORATORY,
RESTAURANT AND OTHER SERVICES SPREAD OUT
ON THE TOTAL SURFACE OF
15.000 M2 OF COVERED SPACE.



330 EMPLOYEES



*Data on 01.05.2018

IMPLEMENTED STANDARDS

6

Management systems applicable in the organizational units of the company which directly or indirectly participate in the implementation of the company's activity, continuously improving, and the control system performs the TUV NORD.



ISO 9001

Quality management system



ISO 14001

Environment management system



ISO / TS 16949

Quality management systems for design and development, manufacturing, and installation and service products of the automotive industry.



PROVIDING HIGHEST QUALITY SERVICES
WORKING IN ACCORDANCE WITH EUROPEAN STANDARDS,
PARTNER RELATIONSHIPS WITH CUSTOMERS,
CONTINUOUS TECHNOLOGY DEVELOPMENT AND IMPROVEMENT,
ECOLOGICAL CONSCIENTIOUS BUSINESS
CONTINUOUS INVESTMENT IN EMPLOYEES EDUCATION.

SURFACE TECHNOLOGIES



22. different metal surface protection technologies in one location.

CHEMICALS DEALERSHIPS



Chemicals for industrial parts cleaning, functional electroplating, metal pre-treatment, decorative electroplating and lubrications.

1. BRIGHT ALKALINE ZINC PLATING ON RACKS
2. BRIGHT ALKALINE ZINC PLATING IN BARRELS
3. BRIGHT ALKALINE ZINC PLATING WITH THICK-FILM PASSIVATION
4. BRIGHT ACIDIC ZINC PLATING IN BARRELS
5. ZINC PLATING IN BARRELS WITH SEALERS
6. ALKALINE ZINC-NICKEL PROCESS
7. ALKALINE BRASS-PLATING PROCESS
8. ALKALINE COPPER-PLATING PROCESS
9. BRIGHT NICKEL PLATING
10. DECORATIVE CHROME PLATING
11. HARD CHROME PLATING
12. TINNING PROCESS
13. SILVER PLATING PROCESS
14. BLACK OXIDATION ON IRON
15. PHOSPHATING
16. ELECTROSTATIC POWDER COATING (EPC)
17. ZINC PLATING + EPC
18. CATAPHORESIS (KTL)
19. HOT DIP GALVANIZING
20. HOT DIP GALVANIZING + EPC
21. CENTRIFUGAL HOT DIP GALVANIZING ,
22. CENTRIFUGAL HIGH TEMPERATURE HOT DIP GALVANIZING

ZINC PLATING

10

6

GALVANIC ZINC-PLATING PRODUCTION LINES

4

lines with
galvanic racks

2

galvanic lines
with the barrels





ADDITIONAL TREATMENT OF
WHITE (BLUE), YELLOW AND THICK LAYER PASSIVATION
IS CONDUCTED TO PROVIDE THE TREATED SURFACES A DIFFERENT COLOR,
IE. THE VISUAL APPEARANCE AND DIFFERENT CORROSION RESISTANCE



GALVANIC ZINC-PLATING ON RACKS

12



PRODUCTION LINE 1



PRODUCTION LINE 2



PRODUCTION LINE 3



PRODUCTION LINE 7

FOUR PRODUCTION LINES WITH RACKS
ARE IMPLEMENTING
NEW GENERATION OF BRIGHT ZINC-PLATING
WITH ALCALINE NON-CYNIDE ELECTROLITE SURTEC 704

Also featuring:
Zinc generators for zinc dissolution,
Ion-exchangers for thick layer passivation SurTec 680,
Demi water equipment,
Automatic dosage , etc.



PRODUCTION LINE 1



7000 liters of electrolytes



Maximum dimensions for galvanizing positions are 1800x800 mm.

Technology:

- SurTec 704
- Thick-filmed passivation SurTec 680,
- Blue trovalent passivation SurTec 664,
- Sealing for Bright Zinc with Sur Tec 555 S.
- Base materials: iron, cooper, brass, ZAMAK

SEMI - AUTOMATIC
PRODUCTION LINE
FOR BRIGHT ZINC-PLATING
ON SPECIALISED RACKS

References:

Zinteknik Bosnia d.o.o. Mostar
(for MAGNA, AUTOLIV),
EMKA BOSNIA d.o.o. Goražde
(for EMKA Germany, Schüco),
PD Igman d.d. Konjic etc.





PRODUCTION LINE 2



20.000 liters of electrolytes



Maximum dimensions for galvanizing positions are 2500x1000 mm.

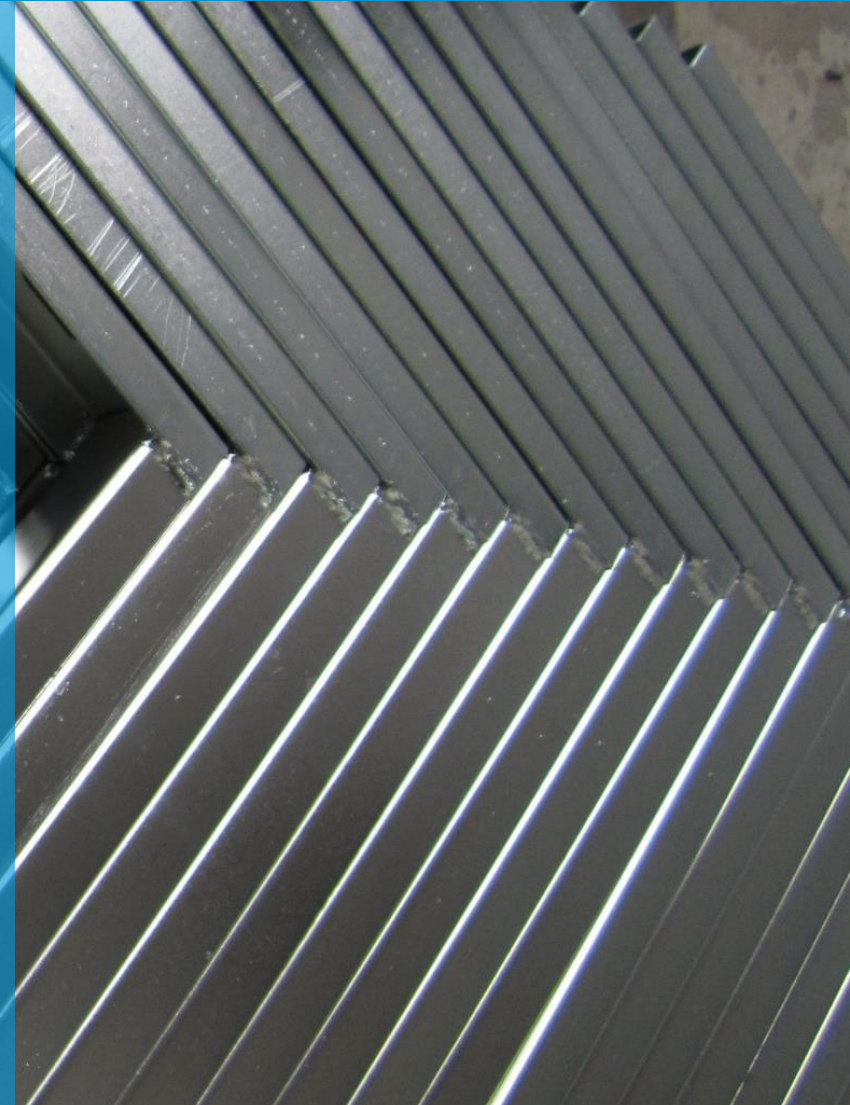
Technology:

- SurTec 704
- Thick-filmed passivation SurTec 680,
- Blue trivalent passivation SurTec 664,
- Sealing for Bright Zinc with Sur Tec 555 S.
- Base materials: iron, ZAMAK

AUTOMATIC PRODUCTION LINE FOR BRIGHT ZINC-PLATING ON RACKS

References:

MANN+HUMMEL BA,
HST CNC TECHNIK Gračanica –
(for Kröne Njemačka),
Zinktechnik Bosnia d.o.o. Mostar,
MAHLE Letrika d.o.o. Laktaši,
Elas Metalexpert Banja Luka,
Jaksche Technology Laktaši,
Metal a.d. Gradiška etc.



GALVANIC ZINC-PLATING ON RACKS

15



PRODUCTION LINE 3



22.000 liters of electrolytes



Maximum dimensions for galvanizing positions are 3000x2000 mm.

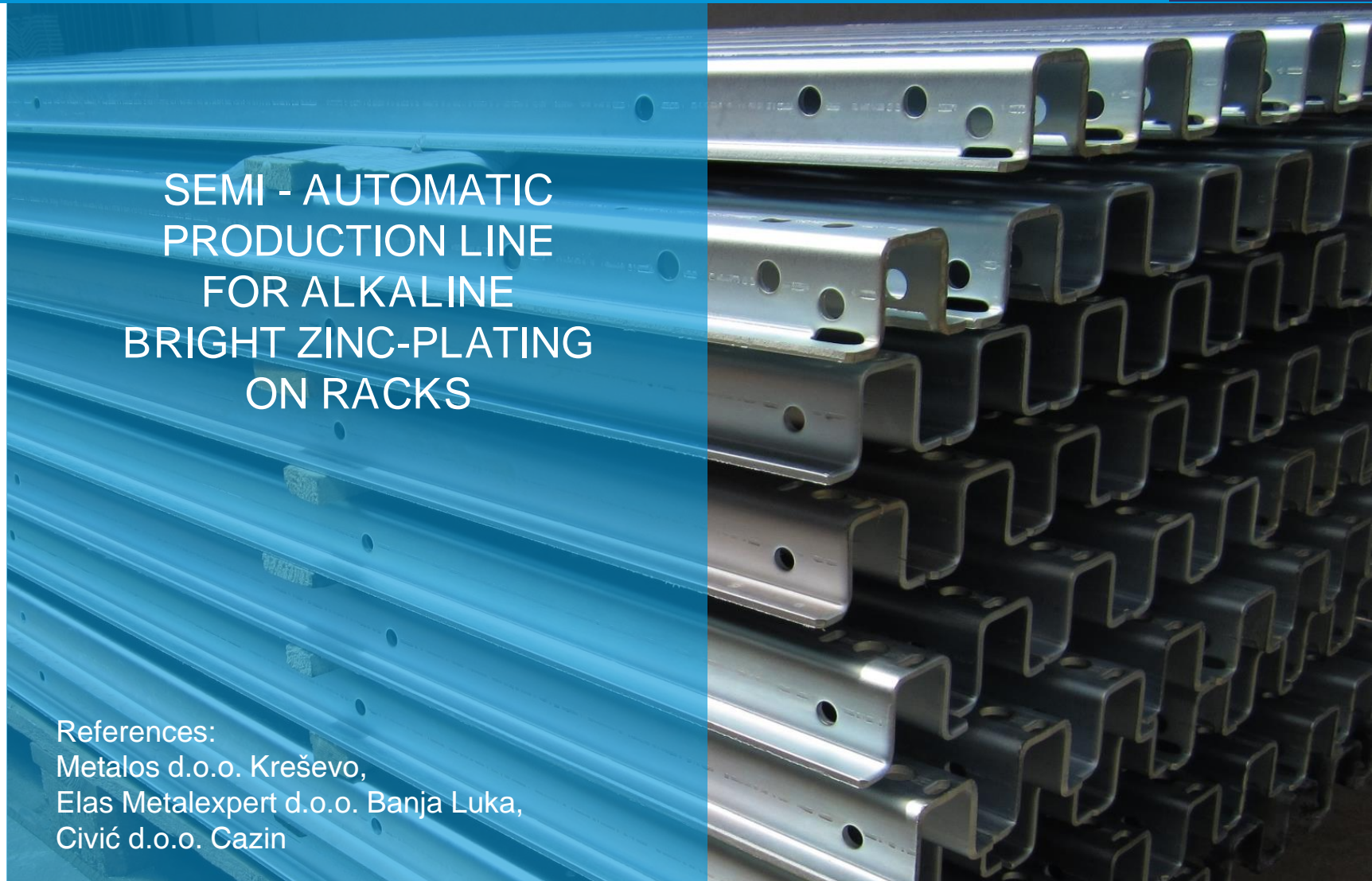
Technology:

- SurTec 704
- Thick-filmed passivation SurTec 680,
- Blue trovalent passivation SurTec 664,
- Sealing for Bright Zinc with Sur Tec 555 S.
- Base materials: iron

SEMI - AUTOMATIC PRODUCTION LINE FOR ALKALINE BRIGHT ZINC-PLATING ON RACKS

References:

Metalos d.o.o. Kreševo,
Elas Metalexpert d.o.o. Banja Luka,
Civić d.o.o. Cazin





PRODUCTION LINE 7



50.000 liters of electrolytes



Maximum dimensions for galvanizing positions are 3000x1400 mm.

Technology:

- SurTec 704
- Thick-filmed passivation SurTec 680,
- Blue trovalent passivation SurTec 664,
- Sealing for Bright Zinc with Sur Tec 555 S.
- Base materials: iron.

AUTOMATIC PRODUCTION LINE FOR BRIGHT ZINC-PLATING ON RACKS

References:

Metalos d.o.o. Kreševo,
Elas Metalexpert d.o.o. Banja Luka,
Civić d.o.o. Cazin



GALVANIC ZINC-PLATING IN BARRELS

17



PRODUCTION LINE 1-UG



PRODUCTION LINE 2-UG

TWO PRODUCTION LINES WITH BARRELS
THE PROCESS IS BASED ON LOW-ACIDIC ZINC
ELECTROLYTE - SURTEC 759 PROCESS
AND IS CHARACTERIZED BY A HIGH BRIGHTNESS AND
EXCELLENT CORROSION RESISTANCE.

Also featuring:
Zinc generators for zinc dissolution,
Ion-exchangers for thick-film passivation SurTec 680,
Demi water equipment,
Automatic dosage , etc.



PRODUCTION LINE 1-UG



Capacity 400 Tons/Month

Technology:

- SurTec 759
- Thick layer passivation SurTec 680,
- Blue trovalent passivation SurTec 664,
- Yellow sixvalent passivation SurTec 676,
- Sealing for Bright Zinc with Sur Tec 555 S.
- Base materials: iron.

AUTOMATIC PRODUCTION
LINE SUITABLE FOR SMALL
PIECES SUCH AS BOLTS,
NUTS, PLATES...

References:
GRAEWE TADIV Konjic,
Real Comerc Vitez,
Real-Kem Konjic,
MAHLE Letrika d.o.o. Laktaši,
KMM Gradiška,
Elting NN Gradiška,
Enker Tešanj itd.





PRODUCTION LINE 2-UG



Capacity 200 Tons/Month

Technology:

- SurTec 759
- Thick-filmed passivation SurTec 680,
- Blue trovalent passivation SurTec 664,
- Yellow sixvalent passivation SurTec 676,
- Sealing for Bright Zinc with Sur Tec 555 S.
- Base materials: iron.

SEMI-AUTOMATIC
PRODUCTION LINE SUITABLE
FOR SMALL PIECES SUCH AS
BOLTS, NUTS, PLATES, ETC.

References:

Elektro-Agent Tuzla,
Ramex Kladanj,
MAHLE Letrika d.o.o. Laktaši,
GRAEWE TADIV Konjic,
Igman d.d. Konjic itd.





PRODUCTION LINE 4



Capacity 100 Tons/Month

SEMI-AUTOMATIC
PRODUCTION LINE SUITABLE
FOR SMALL PIECES SUCH AS
BOLTS, NUTS, PLATES...

Duration of corrosion protection is on average 10 times longer than a standard galvanized zinc plating and 3 times longer than cadmium plating.

Technology:

- SurTec 717 B – non-cyanide alkaline zinc-nickel method for the barrel,
- Base materials: iron.

References:

GRAEWE TADIV d.o.o. Konjic,
Šumer d.o.o. Celje - Slovenija



ALKALINE BRASS-PLATING PROCESS

21



PRODUCTION LINE 5



Capacity 30 Tons / Month

Technology:

- SurTec 810
- Prior to brass-plating, layer of nickel is applied to the base material applied, to increase corrosion resistance.
- Base materials: iron.

SEMI-AUTOMATIC PRODUCTION LINE WITH BARRELS

Brass is an alloy of zinc and copper, with the proportion of 30-40% for zinc and 60-70% for copper. Brass as electrochemical metal plating is used as an anti-corrosive coating, mainly because of its specific color for decorative purposes.

References:

Pobjeda Tehnologija Goražde,
Axle Bugojno (for IKEA),
Zupčanik Tešanj (for IKEA).





PRODUCTION LINE 6



Capacity 50 Tons / Month



In barrels for small pieces

Technology:

- Alkaline process SurTec 864
- Base materials: iron.

SEMI-AUTOMATIC PRODUCTION LINE WITH BARRELS AND RACKS

The process of copper plating may be a corrosion protection(10-20 microns) with organic passivation for copper, as well as a base for applying a decorative surface of nickel and chrome.

References:

MAHLE Letrika d.o.o. Laktaši,
Igman d.d. Konjic.





PRODUCTION LINE 4



Capacity 30 Tons / Month



On racks with maximum
object of
3000x1200x550mm

Technology:

- Alkaline cooper process SurTec 864
- Acidic cooper process SurTec 867
- Semibright nickel process SurTec 853
- Bright nickel process SurTec 856
- Base materials: iron, cooper, brass, ZAMAK

AUTOMATIC PRODUCTION LINE FOR GALVANIC PROTECTION OF SEMI GLOSS AND POLISHED NICKEL PLATING

Nickel-plating may be a corrosion protection or base coat for decorative chromium plating.

References:

MAHLE Letrika d.o.o. Laktaši,
Elsta Mosdorfer Bosnia Tuzla (for Elsta-
Mosdorfer Austria),
Elas Metalexpert Banja Luka,
General Steel Čelinac,
DAL CIN Čelinac ...





PRODUCTION LINE 3
PRODUCTION LINE 4



Capacity 30 Tons / Month



In barrels for small pieces



On racks with maximum
object of
3000 x 1200 x 550 mm.

Technology:

- Alkaline cooper process SurTec 864
- Acidic cooper process SurTec 867
- Semibright nickel process SurTec 853
- Bright nickel process SurTec 856
- Decorative chrome plating SurTec 871
- Base materials: iron, cooper, brass, ZAMAK

SEMI - AUTOMATIC PRODUCTION LINE FOR DECORATIVE CHROME PLATING

The process of decorative chrome plating is applied to the polished nickel coatings in thicknesses of 0.3-0.5 microns, giving the product a distinctive bluish gloss chrome.

References:

Elas Metalexpert Banja Luka,
DAL CIN Čelinac,
General Steel Čelinac,
MAHLE Letrika d.o.o. Laktaši,
A.M.T. Široki Brijeg,
Sinkro Sarajevo.





PRODUCTION LINE 8



Installed capacities for vertical hard chrome-plating:

1. Length 800 mm,
2. Hardness of the coating HV 700-1000.



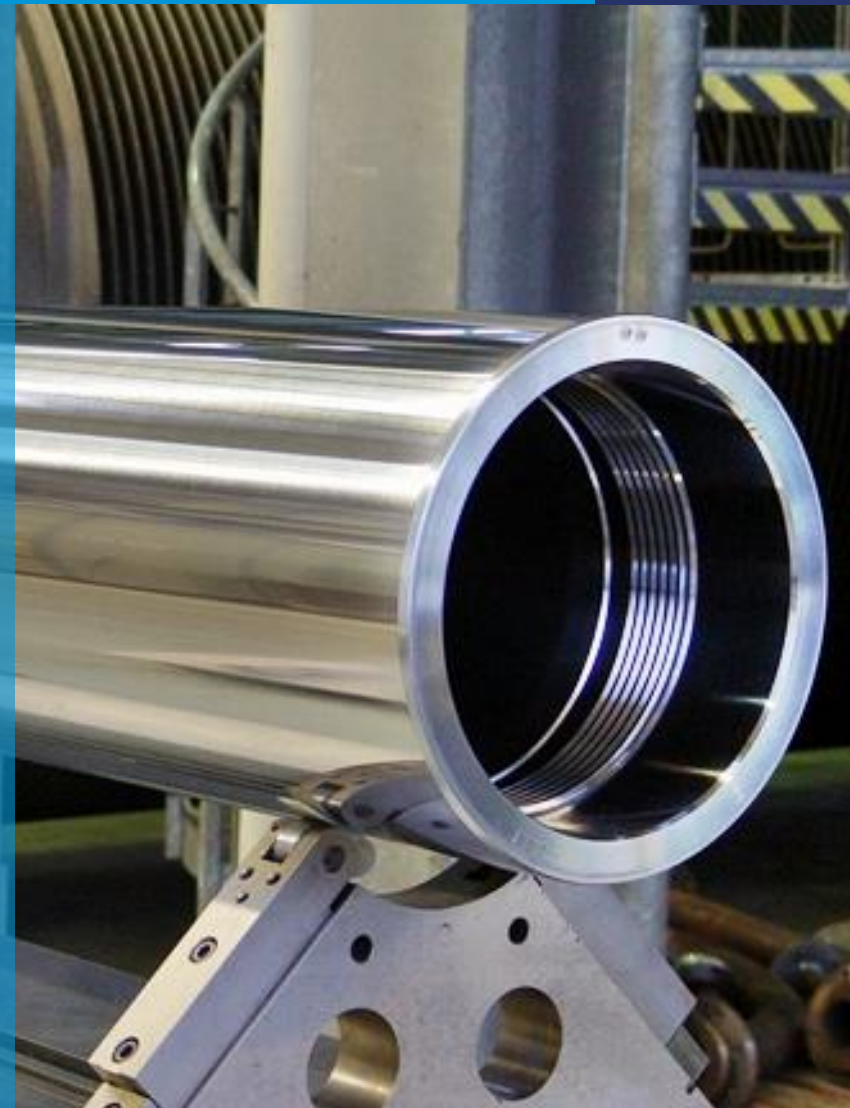
Installed capacity for horizontal hard chrome-plating:

1. Length up to 2000 mm,
2. Hardness of the coating 700-1000 HV.

PRODUCTION LINE FOR HARD CHROME PLATING

Compared with decorative chrome-plating, technical hard chromium-plating provides high wear resistance and corrosion protection.

References:
Alat d.o.o. Konjic,
Igman d.d. Konjic,
Gostol-Gopan d.o.o. Lukavac.





PRODUCTION LINE 3
PRODUCTION LINE 4



Capacity 30 Tons / Month



In barrels for small pieces



On racks with maximum
object of
3000 x 1200 x 550 mm.

Technology:

- SurTec 821
- Base materials: iron, copper, brass

PRODUCTION LINE FOR TINNING

Electrolytic tinning is mostly used in the food industry (white sheet metal), as well as in the electrical and electronics industries (copper contacts, copper strips and electronic elements). Technical support is DIN 50965.

References:

Kolektor Bosnia d.o.o., Laktaši,
Bekto Precisa d.o.o., Goražde,
Tvornica dalekovodnih stubova, Sarajevo,
Elsta Mosdorfer Bosnia d.o.o., Tuzla
(for Elsta-Mosdorfer Austrija),
MAHLE Letrika d.o.o. Laktaši,
Ditrax d.o.o., Mostar ...



SILVER PLATING PROCESS

27



PRODUCTION LINE 13



Capacity 15 Tons / Month



In barrels for small pieces

Technology:

- Silver process
- Base materials: iron, copper, brass, ZAMAK

PRODUCTION LINE FOR SILVER PLATING PROCESS

Silver Plating provides a coating which is matte-white in appearance. This finish provides good corrosion resistance, but also has the tendency to easily tarnish. Silver plating also provides a good coating for parts that require low electrical resistance, and lastly, silver provides great lubricity.



BLACK OXIDATION ON IRON

28



PRODUCTION LINE 8



Capacity 25 Tons / Month

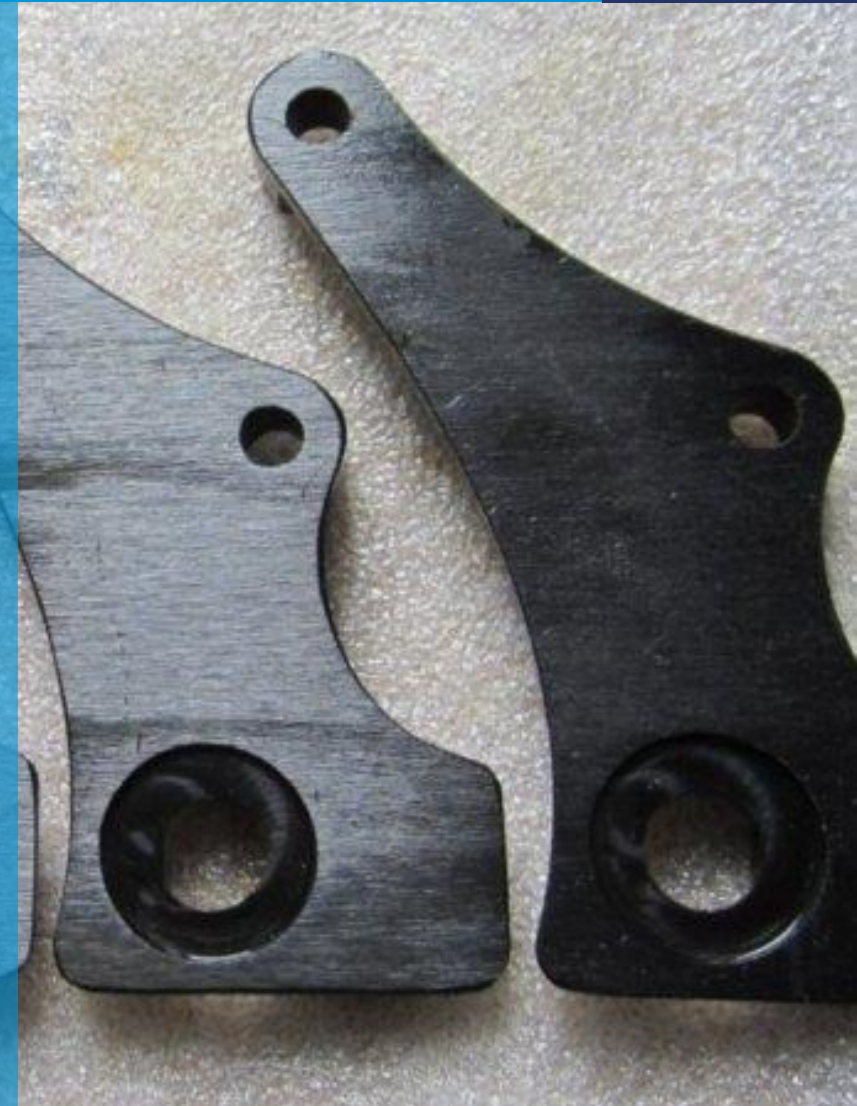
Technology:

- The hot browning method (133-145 ° C)
SurTec 620
- Base materials: iron.

The term black oxidation is understood as burnishing surface protection of ferrous materials due to which the surface of metal is covered in very thin layer of black iron oxide with the aim of corrosion protection and / or optical effect.

References:

Zec d.o.o. Međugorje,
Čičak d.o.o. Međugorje
Alat d.o.o. Konjic





PRODUCTION LINE 2-UG AND KTL



Capacity 100 Tons / Month



In barrels for small pieces



On racks with maximum
object of
2500x900x2000mm

Technology:

- SurTec iron phosphate product range includes the following: SurTec 614 and SurTec 618
- Base materials: iron.

The process includes the phosphating procedure for coating metal that may have a variety chemical composition, depending on the type of phosphate baths.

The most common use of phosphate coating is:

1. As a base for existing varnishing or rubberizing,
2. Holder of the lubricant for corrosion protection or due to cold deformation of metals.

References:

PD Igman d.d., Konjic
MDG d.o.o., Sarajevo



ELECTROSTATIC POWDER COATING (EPC)

30



PRODUCTION LINE 9



Capacity 250 Tons / Month



Objects to
maximum dimensions
3000x2000x1100 mm.

Process is based on the powder coating of the surface and the polymerization of powder at a particular temperature. Plastic coated layer, in addition to being an excellent protection against corrosion, is resistant to heat and abrasion.

Painting is done in all tonalities of international RAL mark.

References:
Metalos d.o.o. – Kreševo,
FEAL Široki Brijeg,
DIS Eurostandard,
Wolkswagen Sarajevo itd.





PRODUCTION LINES
2, 7, 3-UG & 9



Capacity 250 Tons / Month



Objects to
maximum dimensions
3000x2000x900 mm.

Complete duplex metal protection which will meet the needs of the most demanding conditions.

This type of protection comprises two protective coats – zinc electroplating as the ideal basis to the application of paint by electrostatic coating.

References:
Metalos d.o.o. – Kreševo,
FEAL Široki Brijeg,
DIS Eurostandard,
Wolkswagen Sarajevo itd.





PRODUCTION LINE 12



Capacity is
40.000 to 50.000 m²,
or 50 to 100 tons of material



Maximum dimensions for
positions are
2500x900 x2000 mm

Technology:

- Zinc phosphate SurTec 618 + KTL
- Base material: iron, Zamak, Aluminium

AUTOMATIC PRODUCTION LINE FOR CATAPHORESIS

Technological process used for coating of metal surfaces with a thin, solid, one layer, and corrosion-resistant organic coating.

The possible coating thickness of parts is from 15 to 35 microns.

References:

MANN+Hummel d.o.o., Tešanj
EMKA BOSNIA d.o.o., Goražde
AMA Adriatic d.o.o., Ilijaš





PRODUCTION LINE 10



Capacity is 1500 Tons / Month.



Maximum dimensions for positions are 9000x1100x2900mm.



Maximum weight of the charge is 5000kg.

PRODUCTION LINE FOR HOT DIP GALVINISING

Hot dip galvanizing by immersion in accordance with EN ISO 1461: 2009th, standard relates to the zinc coating to be applied to the hot process of iron and steel.

References:
BH Telecom d.d.,
Alternativa d.o.o.,
Feal d.o.o.,
HP Investing d.o.o., etc





PRODUCTION LINE 11



Capacity is 200 tons of material/month.



Maximum dimensions for positions are 500mm. Suitable for galvanizing screws, nuts, chains, brackets, various carriers bearing the thread holes.

PRODUCTION LINE FOR CENTRIFUGAL HOT DIP GALVINISING

Hot galvanizing with centrifuge system contains all the steps as normal hot dip galvanizing with subsequent centrifugation, the removal of the excess zinc from the surface that will have a further utility in the context of an assembly.

References:

Graewe Tativ d.o.o., Konjic (for Wurth, Kelner Kunz i dr.), Bekto Preciza d.o.o, Goražde Silla, Serbia etc.





PRODUCTION LINE 11



Capacity is 200
tons of material / month.



Maximum dimensions for
positions are 500mm, for
galvanizing screws, nuts,
chains, brackets, various
carriers bearing the thread
holes.

PRODUCTION LINE FOR HIGH TEMPERATURE CENTRIFUGAL HOT DIP GALVINISING

This is a more advanced process of galvanizing where the dipping is done in ceramic bath containing zinc melt preheated to temperatures up to 580°C.

By this method it is possible to provide a coating of zinc coating thickness of 25 microns to 80, according to DIN EN ISO1461.

References:

Graewe Tativ d.o.o. iz Konjica
(za Wurth, Kelner Kunz i dr.),
Bekto Preciza d.o.o.,
Silla Serbia etc.





BRANDS AND DEALERSHIPS

36



Sur
Tec



//
KLÜBER
LUBRICATION



OKS®

Complete technology in our production plants is based on SurTec high quality chemicals, which SurTec-Eurosaj distributes in the market of Bosnia and Herzegovina, Croatia and Serbia. For costumers we provide technical support by trained engineering team.

SurTec Eurosaj is authorized representative for the distribution and sales of the Klüber, offering lubricate high performance. Klüber products are suitable for use in all areas of industry where special requirements need special solutions, providing lubricatea with high performance.

OKS offers products which will ensure that your equipment, machines and systems operate flawlessly under the most difficult circumstances and conditions - always.

SURTEC EUROSJAJ HAS ACHIEVED A LEADING POSITION ON THE MARKET OF BOSNIA AND HERZEGOVINA THANKS TO THE:

- 💡 TEAMWORK
- 💡 CONTINUOUS DEVELOPMENT OF SERVICES
- 💡 PARTNERSHIPS WITH CUSTOMERS
- 💡 INVESTMENT IN EDUCATION
- 💡 ENVIRONMENTALLY CONSCIENTIOUS BUSINESS

FOLLOWING THE LATEST WORLD TRENDS IN THE SURFACE PROTECTION OF METAL AND EXPANDING ACCORDINGLY TO THE NEEDS OF THE MARKET, SURTEC-EUROSJAJ WILL IN THE FUTURE EXTEND ITS CAPACITIES AND TECHNOLOGIES.





THANK YOU

Surtec-Eurosaj team