



TRATTAMENTI GALVANICI

PRESENTATION

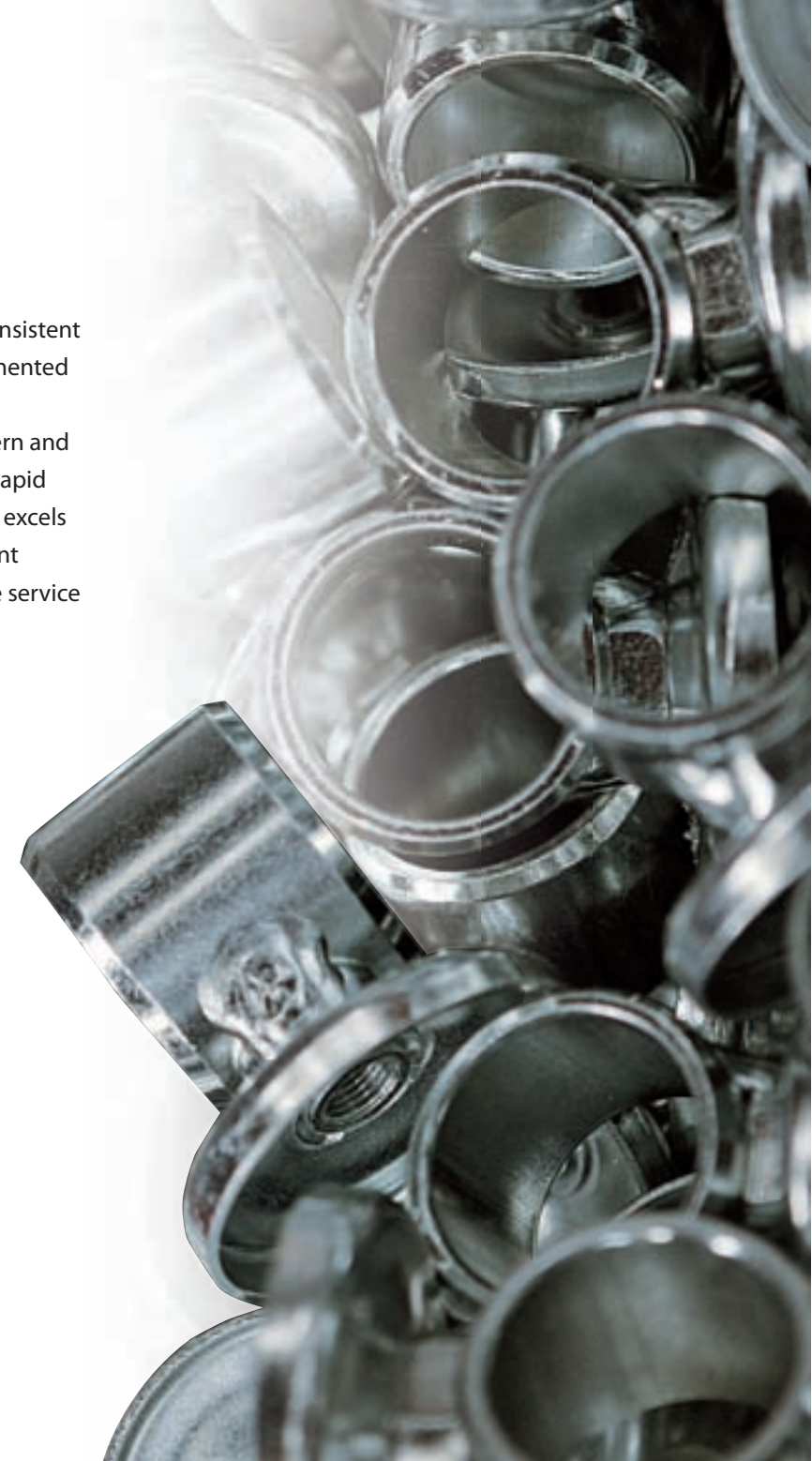
Zincoplating was founded in 1993 following the disbanding of a group which had operated in the anti-corrosive surface protection sector for ten years. The company's continuous research aimed at improving implemented technology and product quality has distinguished it from other companies.

The legacy of the company's founder, Nicola Dicosta, was cultivated over 40 years of work experience, and his children have followed in his footsteps, carrying on the family business. Zincoplating is proud of the achievements which have led to its present day managerial and productive philosophies, which are integrated with generations of professionalism and competence, as well as a highly organized and dynamic structure.

From 1993 to the present, these qualities have allowed Zincoplating to systematically acquire the Waste Water Quality Certificate in 1998, environmental certification UNI EN ISO 14001 in 2005 and also the approval of other leading companies in this sector.

These standards illustrate Zincoplating's consistent quality in surface covering, which is implemented in total respect for the environment.

Another vitally important factor for a modern and dynamic business is the ability to promise rapid delivery times, a skill in which Zincoplating excels by continuously collaborating with the client as to productive methods when immediate service is demanded.



SERVICES

We offer the following services

- **Electro galvanising**
- **Zinc-Nickel plating**
- **Sealing**
- **Phosphate coating**
- **Molykote**
- **Sandblasting**
- **Dehydrogenation**

Reference documents

- Fiat 957409
- Fiat 957405
- VW TL 244
- VW TL 217
- BMW GS90010
- Mercedes DBL 8451
- PSA 154101
- PSA 154102
- Piaggio 2798
- Ducati STR 008
- Brembo 11.24
- Bosch 82644
- Renault 01-71-002



ELECTRO-GALVANISING

This is the most common corrosive protection for metal surfaces.

The electro-galvanising process, and in particular the alkaline process, allow for a thin layer of zinc to be applied, resulting in excellent resistance to corrosion.

The main advantages of galvanising, in contrast to more noble metals, are that it offers maximum protection to corrosion and excellent affordability. Zincplating uses ALKALINE ZINC WITHOUT CYANIDE PLATING. This is an innovative system, as it does not contain toxic substances.

The advantages of this process are:

- Excellent penetrating power and uniform thickness
- Better guarantee of chromate adherence
- Maximum resistance to corrosion of the zinc-passivator

Our productive processes use extra pure zinc with test analyses proving 99.99% zinc purity.

The finished product can vary in colour: white, yellow, black, olive green.

Passivation free from Hexavalent Chromium

New European standards regulate the use of hexavalent chromium, which as of 01/07/2007 set a limit of 2 gr. per automobile.

Nevertheless, for some time, the motor vehicle industry has already been imposing severe limitations on the use of hexavalent chromium based compounds.

In contrast to the aforementioned statement, in recent years products that have been passivated without Cr VI have proven to be more effective and more environmentally safe.

- **White trivalent galvanising**
- **Iridescent trivalent galvanising (point IV)**
- **Black trivalent galvanising**



ZINC-NICKEL

Zinc Nickel high resistance to corrosion

The zinc-nickel alkaline process is free of cyanide. The nickel content is 12-16%. The zinc-nickel alkaline provides excellent resistance to corrosion and is applied to both plating barrel and chassis work.

Advantages:

- Incomparable resistance to corrosion (up to 720/1000 hours in the salt spray chamber without red salts)
- Resistance to high temperatures
- Excellent ductility
- Free from hydrogen embrittlement
- Great receptivity to Cr III finishes
- Great receptivity, even to finishes without any Cr
- Great resistance, even without chromic passivation, with only the addition of organic sealant (> 480 h salt spray chambers without red salts)

Finishes:

- **Transparent trivalent**
- **Black trivalent**
- **With sealant**

SEALING

In recent years, the automobile industry has required anti-corrosive coatings WITH CONSISTENTLY BETTER RESISTANCE QUALITIES. The increase in temperatures in the engine compartment has modified the criteria used for corrosion resistance testing. For the past several years, an innovative sealing process has been implemented, which has provided higher quality results, including better distribution of the sealant layer, and above all, elimination of accumulation in hollow areas.

Our most popular sealants include:

- **Finigard 105**
- **Finigard 200**
- **Finigard 401**

Advantages

- High resistance to corrosion
- Zinc galvanising and zinc-nickel coating protected by sealant free from toxic or noxious components
- Free from organic resin
- Using a sealant lubricant it is possible to reduce the friction coefficient
- In addition to zinc galvanisation, it is also possible to reach 480 hours of red corrosion resistance
- In addition to zinc-nickel galvanisation, it is also possible to reach 1000 hours of red corrosion resistance

Zincplating has obtained approval from Coventya to use Finigard.



OTHER TREATMENTS

PHOSPHATE COATING

This process consists of converting metal surfaces into surfaces that do not have metallic properties.

Applications:

- Treatment of the metal surfaces so that they can be better prepared for subsequent treatments
- Improved resistance to corrosion
- Treatment of the metal surfaces for cold extrusion and/or grinding

The phosphate coating process consists of 3 elements:

- Manganese acts as an anti-scuff
- Zinc acts as a paint base
- Micro phosphate coating acts as an anchoring base for rubber to metal bonding

SANDBLASTING

- Traditional Sandblasting
- Micro sandblasting

MOLYKOTE

Solid lubricant free of toxic or noxious components – used in the industrial field thanks to the use of MOS_2 (molybdenum bisulphide). It is made using extremely ductile layers, giving it an almost oil-like feel.

Applications:

- Prevention of corrosion
- Alternative to polluting coating substances
- Special lubricant for improved running
- Wear-resistant
- Anti-scuff
- Excellent corrosion resistance

DEHYDROGENATION

Treatment that is sometimes necessary for post-galvanising in order to avoid embrittlement of metals with elevated hardness or resistance

QUALITY

Quality and Service

Quality and service have always been among Zinco Plating's most important objectives. By constantly and continuously monitoring the production process, we are able to ensure a high quality standard.

These are the key points of our company

- Respecting the environment
- Rapid delivery times
- Innovative and highly resistant anti-corrosive treatments

By using tools specific to the field, our laboratory has a determining role in quality control throughout the productive cycle. The tools used are:

FISCHERSCOPE X-RAY
FISCHER DUALSCOPE MAGNE GAUGE
SALT SPRAY CHAMBERS
MINI PHOTO METER LASA 20
ATOMIC ABSORPTION

ENVIRONMENT

Zinco Plating has always been particularly mindful of protecting the environment.

Significant investments have been made for waste water purification and fume reduction systems. Proof of what Zinco Plating had already achieved during the first year of implementation in 1993:

- **The award for Waste Water Quality**
(issued by the entity responsible for the renewal of water in the metropolitan area)
- The Bollino D'argento (*Silver Stamp*) of recognition for continuity of waste water quality

We are not only concerned with waste water treatment, but also with selection of products and producing environmentally friendly coatings, regardless of the cost.

The UNI EN ISO 14001 Certification received 2005

The AIA Authorisation (Environmentally Integrated Authorisation) received 2006.





CERTIFICATIONS

Zincoplating has received the following certifications:

- The UNI EN ISO 9001 Certification in 1998
- The UNI EN ISO 14001 Certification of Environmental Management System in 2005
- Coventya homologation for the implementation of Finigard in 2000
- Homologation by leading businesses
- Coventya homologation for Zinc-Nickel Process
- AIA Authorisation (Environmentally Integrated Authorisation) received 2006.



ISO 9001 – Cert. N° 03308-98



ISO 14001 – Cert. N° 5388-E

SPECIALIZATIONS

The following business sectors use our services:

- Automotive
- Mechanical
- Railway
- Industrial Vehicles
- Door and Window fastenings
- Household Appliances
- Aerospace