



# Hot-dip galvanizing bath, the best anticorrosive solution



# Hot-Dip Galvanizing Bath



The most effective steel-made part protection and economic in the long term.

Industrias Ceno S.A., the hot-dip galvanizing bath leader in the Colombian market, has the most modern plant in the country.

Through its production processes, infrastructure, and highly qualified employees and workers continuous improvement, Industrias Ceno S.A. is able to offer its customers the most reliable galvanizing service with the highest quality, complying with ASTM A123 (NTC 3320) and ASTM A153 (NTC 2076) standards.

## Tank capacity:

1. Length: 6.90 meters;  
width: 0.55 meters; depth: 0.75 meters.

2. Length: 2.90 meters;  
width: 0.75 meters; depth: 1.10 meters.

Industrias Ceno S.A. ofrece:

- Centrifugal hot-dip galvanizing for small parts to guarantee the final dripping and zinc-excess elimination.
- Hot-dip galvanizing bath technical support by specialized personnel.



## PROTECTION

The hot-dip galvanizing bath process generates double steel protection:

**Barrier type:** cast zinc covers the whole part acting as a protection barrier and keeps the steel from reacting to the environment and from corroding.

**Cathodic type:** the galvanized surface is corroded instead of the steel and reacts actively to protect any adjacent area where the steel might be exposed.

## DEFINITION

The hot-dip galvanizing bath is a corrosion protection industrial process for a great variety of iron or steel products.

This is achieved by dipping the part in a zinc bath that not only coats it, but also causes a very resistant zinc-iron alloy that acts as an anticorrosion agent, protecting the part against air, water, and soil.

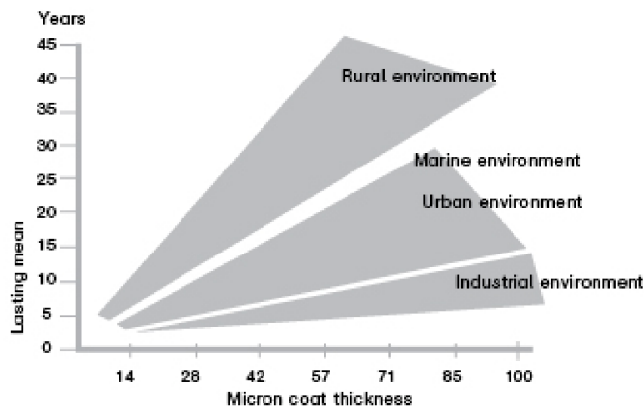


### Long Lasting

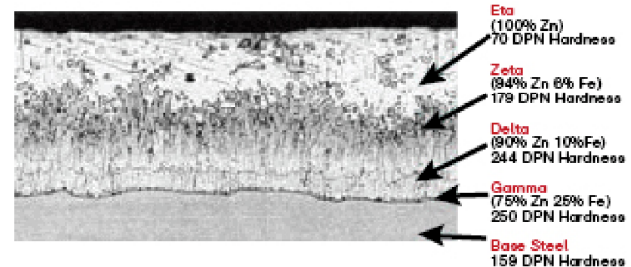
Various researches have confirmed that hot-dip galvanizing baths are the most effective, long lasting, and maintenance-free steel protection.

The great affinity between steel and zinc allows them to alloy and thus gain an extraordinary durability.

Four coats that can be over 100 micron thick form the alloy. The outermost coat is the most zinc rich, very stable to guarantee excellent steel protection.



### Hot-dip galvanizing coat microstructure



## APPLICATIONS



⚙️ STEEL STRUCTURES

⚙️ MARINE FACILITIES

⚙️ LIGHTING

⚙️ FENCING, GRIDS

⚙️ COMMUNICATION AND POWER TRANSMISSION TOWERS

⚙️ LADDERS, STAIRCASES, AND HANDRAILS

⚙️ ELECTRICAL HARDWARE

⚙️ JOINT ELEMENTS (SCREWS, BOLTS, SPACERS, NUTS) PIPING AND ACCESSORIES

## HOT-DIP GALVANIZING BATH ADVANTAGES



### ✓ More reliability

The hot-dip galvanizing process can be measured, which allows forecasting the coat useful life, being able to control and prolong the protection efficiently.

### ✓ Corrosion resistance

Excellent corrosion resistance according to the environment, being very efficient in rural, marine, urban, and industrial environments.

### ✓ Faster

This process does not require special environmental conditions for its application, as paint does. It is a faster process because the steel goes under a chemical treatment.

### ✓ More mechanical resistance

Hot-dip galvanized parts are scratch and shock resistant, being an advantage for the part handling and storage.

### ✓ More versatility

This process can be used in different shape and size parts.

### ✓ Homogeneous and full coating

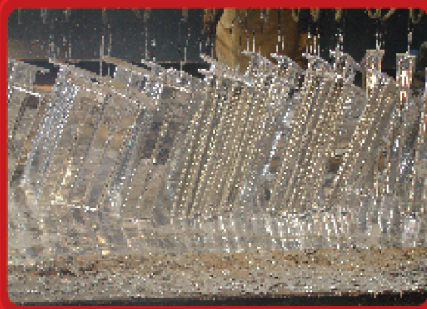
The hot-dip galvanizing bath process covers all hard-to-reach areas that would not be fully protected with other coating types.

### ✓ Little maintenance

This process does not require any maintenance at all in most cases.

### ✓ Easy to weld

Hot-dip galvanized parts can be welded following the same process to weld A-36 steel, adapting the welding parameters to these conditions.



April / 2006

## CONTACT US

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