

# *Distek™ (ArmorGalv®)*

## *Thermal Diffusion Zinc Coating*

*The better way to protect  
your products against  
corrosion*







# *What is Distek™ / ArmorGalv®?*

An innovative, ecologically clean, anti-corrosion zinc coating method provides better quality, stronger corrosion resistance, maximum uniformity, and an attractive cost-benefit ratio.



*We help manufacturers cut their costs dramatically by allowing them to make their anti-corrosion coating in-house with green, easy-to-operate TDG coating lines.*

# History

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developm

**1993**

Dr. Shtikan won a grant from the Israel Chief Scientist and started the development of the Distek™ technology.

**1995**

Completion of the development. The first Distek™ coating line has been sold to a Russian company.

**2007**

The establishment of Distek North America and the development of the ArmorGalv® process.

**2014**

The establishment of Distek China and sale of the first Distek™/ArmorGalv® lines in the Far East.

**2022**

The company continues to expand while constantly improving and working on new developments.

# ***Distek™ (ArmorGalv®)*** ***worldwide***



Since finishing the technology development in 1995, we established dozens of licensees worldwide, including in the US, Europe, China, Japan, South Africa, Russia, Canada, Australia, Israel, and Turkey.



# ***Industries***



***Marine***



***Oil & Gas***



***Railway***



***Automotive***



***Construction***



***Metro***



***Electricity***



***Energy***



# Among Our Clients





# *Services*



# *Line*

We will plan, design, and produce the coating line most suitable for your company's needs.

# *Powder*

A unique mixture developed by the Distek company consists of zinc powder and other materials.

# *Materials*

An integral part of the technology is the passivation process; involves patented chromate-free solutions developed by the Distek company.

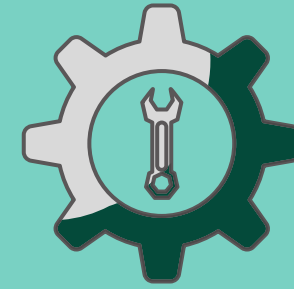


# Advantages

Our unique coating process performs much better results in every significant aspect.

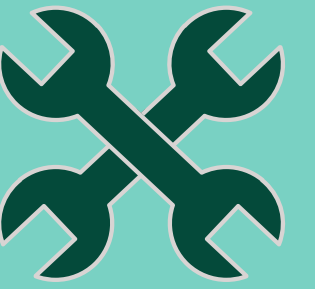


## Maximum Protection



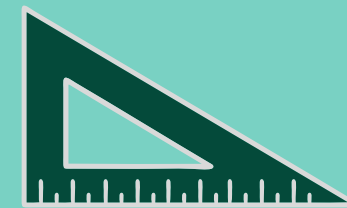
Corrosion resistance up to 3000 hours in SST

## Minimal Pretreatment



No need for a chemical process before coating

## Maximum Uniformity



Guarantees uniform thickness even on tubes and internally threaded parts.

## Cost - Effectiveness



Save energy, no wastewater, no additional expansions on environmental issues



***Completely  
Ecologically Clean***



Won the Pollution Prevention Award  
(MVP2), presented by the US EPA.

***Dry Process***

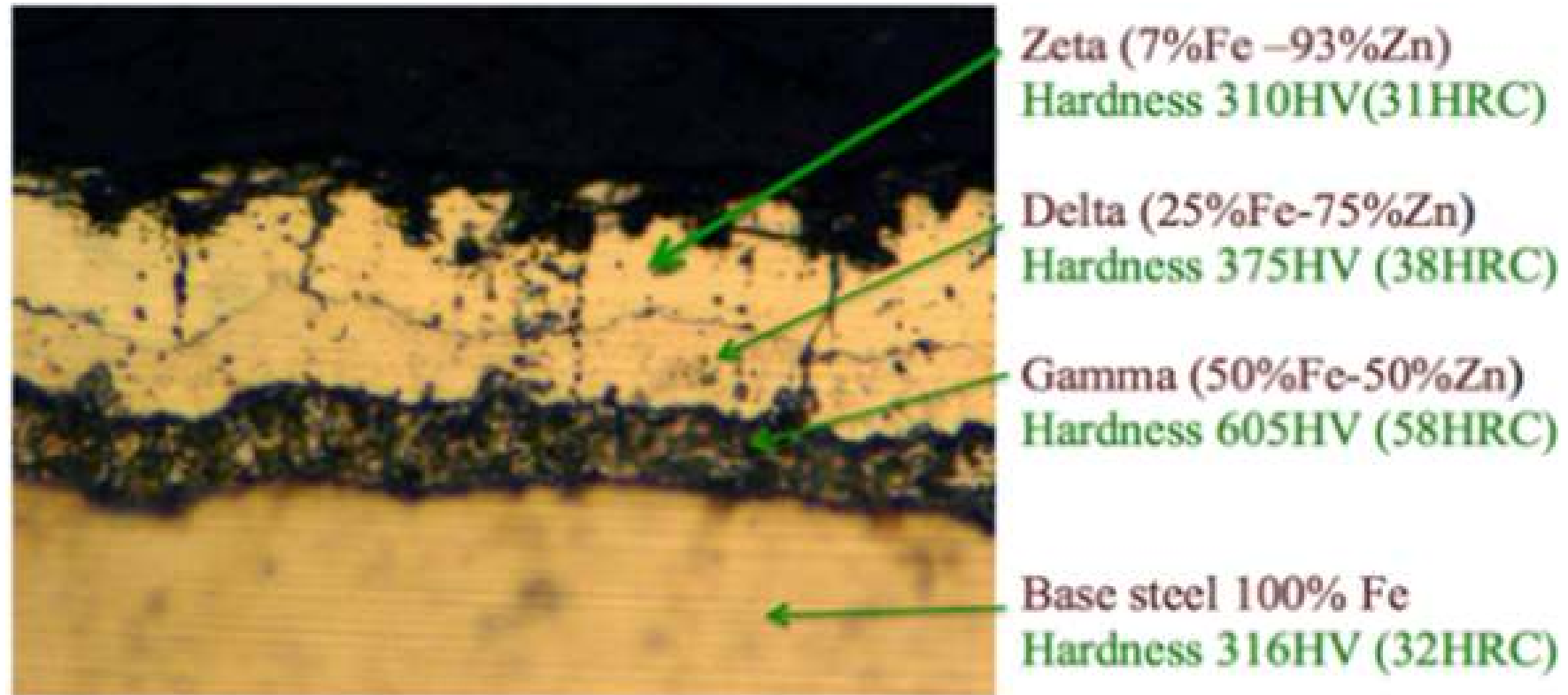
No acids or toxic elements, and  
nothing is thrown into the sewer.

***No Wastewater***

Distek lines include a water-cleaning  
system that recycles the water.

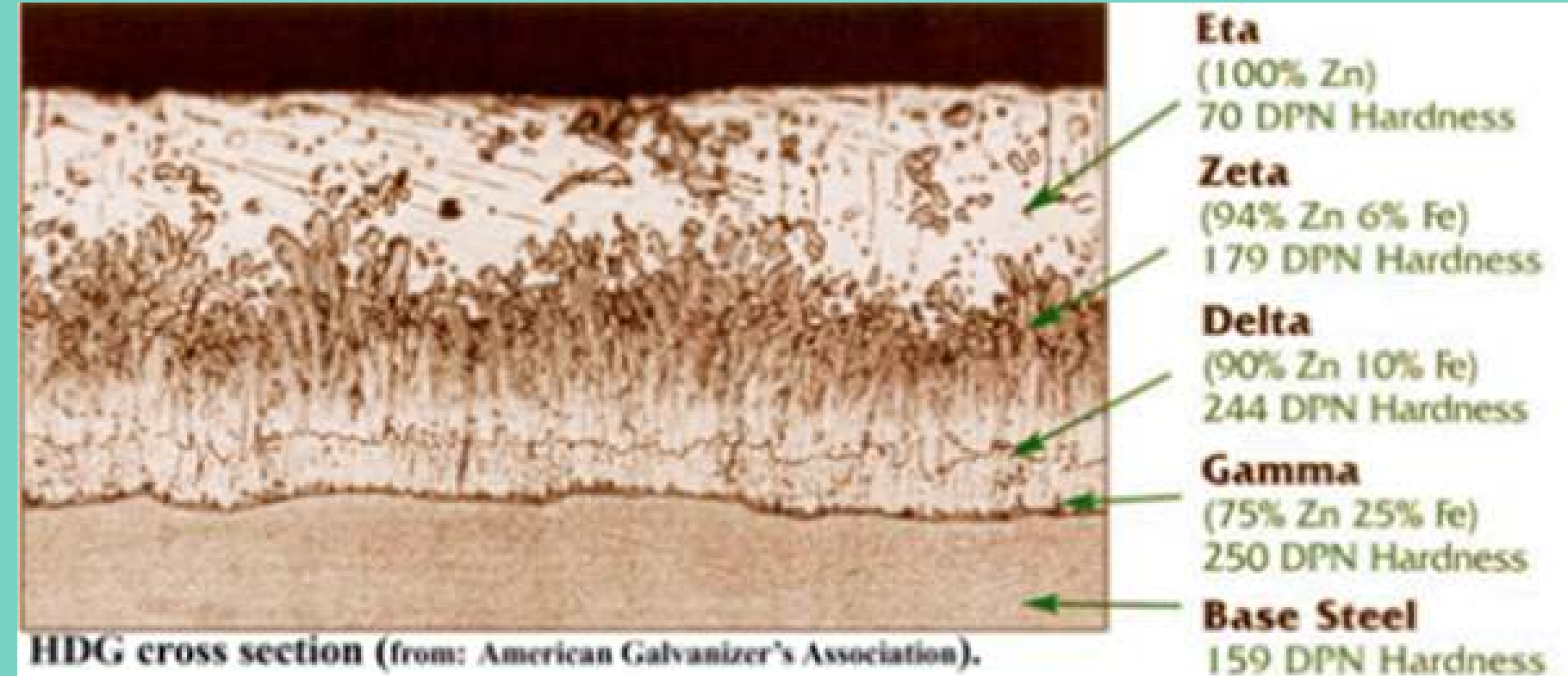


# Distek™/ArmorGalv® VS. HDG



**ArmorGalv® cross section**

Distek™ (ArmorGalv®) has a 100% intermetallic alloy structure, with a significant Gamma layer and a more iron-rich structure than HDG. The ArmorGalv® layer is hard and abrasion-resistant, while the richer iron content also provides superior corrosion resistance.



HDG, most of the time, has a pure zinc layer that is more than half of the coating. The intermetallic alloy layers are much thinner (particularly the very thin Gamma, which is the hardest and most corrosion-resistant) and poorer in Iron content.



## *Distek™/ArmorGalv®*

Superior Corrosion  
Resistance



No Hydrogen  
Embrittlement Failures



High Precision and  
Uniformity



Environmentally  
Friendly



## *Hot-Dip Galvanizing*

Lower Corrosion  
Resistance

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Hydrogen Embrittlement  
Failures

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Poor Precision and  
Uniformity

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Not Environmentally  
Friendly

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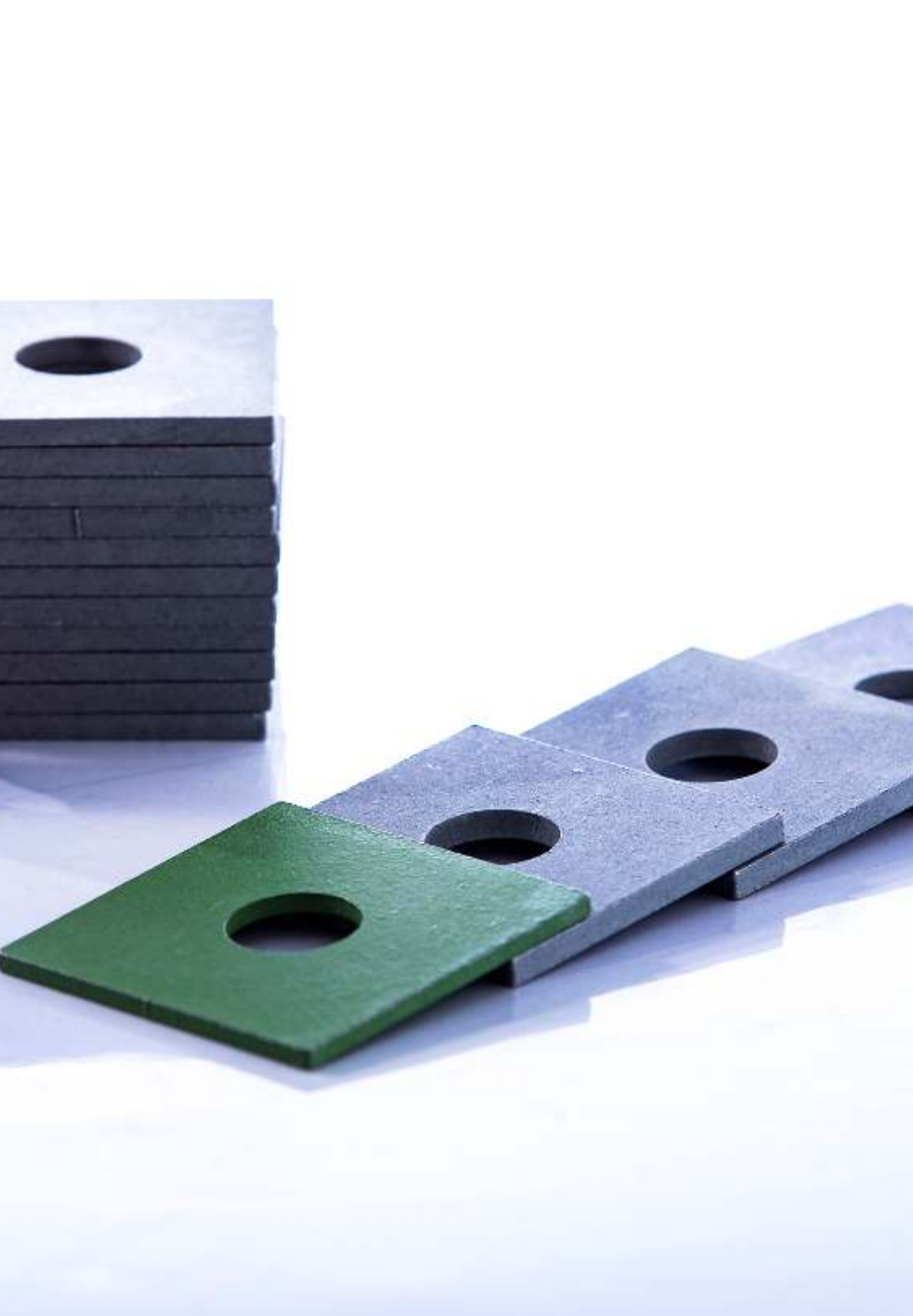




performance in severe salt environments with and without abrasion show a 5 to 10 times improvement in performance with the TZD-coated steel versus HDG steel. Steel coated





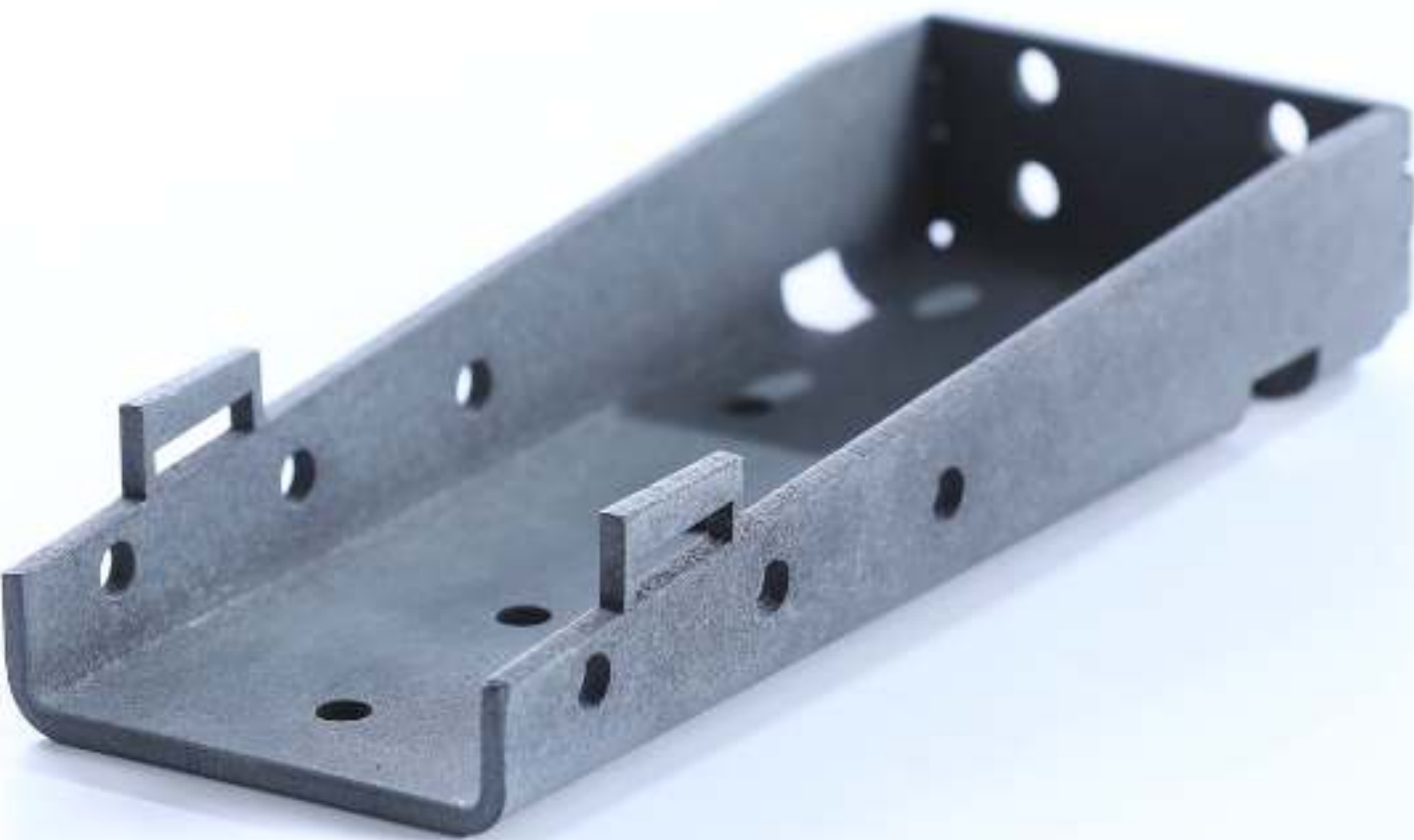


# *Standards*

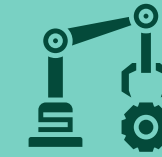
Distek™ /ArmorGalv® coating conforms to the following standards:

- ASTM A 1059A/1059M - 08
- BS-EN 17668:2016
- Russian standard GOST R 9.316 - 2006
- Israeli standard 4271

# How it Works?



## STEP 1



We plan, design, and manufacture the line most suitable for your products and needs.

## STEP 2



We ship, assemble, start-up the line, and train the local staff.

## STEP 3



During the years, we supply the patented powder and materials and technical support and advice.

Once a year, we visit our licensee place, ensure everything is done correctly, and renew the certification to use the name Distek™/ArmorGalv®.





# *Let's Talk*

In a world of growing and uncompromising demand for better quality on the one hand, while preserving the environment on the other, the Distek™ / ArmorGalv® technology is the ideal solution.

