



# CATAPHORETIC COATING

A brand new powder-coating system  
integrated with cataphoresis treatment

[zanardo.com](http://zanardo.com)

 **ZANARDO**  
QUADRI ELETTRICI

# OUR CATAPHORETIC COATING SYSTEM

Zanardo S.p.A. is proud to announce the commissioning of its **brand new powder-coating system, integrated with cataphoresis treatment** to the world of electrical panels.

This system is the largest and most modern currently available from any manufacturer of electrical panels.

This type of coating **works by immersion** and ensures the protective film penetrates into every narrow opening or hole in the product.

We are the first in the electrical panel sector to use a Japanese epoxy cataphoretic product from the automotive sector which **guarantees mechanical seal, elasticity and long life, and can be painted over.**



The painting process is **fully automatic** and monitored by software on a **4.0 digital platform**, integrated into the internal management system.







## SYSTEM FEATURES

### STEP 1 / LOADING THE MATERIAL

- **3 stations** for material loading
- **3500 metres** of track for loading the material
- **125 hangers**
- **250 kg** maximum weight permitted for each hanger
- **3.5 metres/minute** working speed
- **8 metres/minute** material movement speed

### STEP 2 / TREATMENT

- **800 square metres** of treatable surface/hour
- Treatment tunnel length **54 metres**
- **Drying oven at 110°** for 15 min.
- **90 m<sup>3</sup>** double cataphoresis immersion tank.
- 4 pieces with maximum **simultaneous coating**  
dimensions H.2200 W.3500 D.1000
- **Cataphoresis polymerisation** oven at 165° for 18 minutes
- **2 automatic powder-coating cabins**
- **1 manual powder-coating cabin**
- **Powder-coating polymerisation** oven at 170° for 20 minutes
- **3 stations** for material unloading

## ADVANTAGES OF THE PROCESS

- ✓ **guaranteed protective** film coverage
- ✓ reduction in the applied coating thickness
- ✓ **double baking** for products
- ✓ production **speed**
- ✓ **guaranteed treatment** for cleaning the sheet metal, with six pre-treatment stages and passivation using nanotechnology
- ✓ less environmental pollution with a closed-circuit purification system, use of liquid cataphoresis paint with just 1.5% of solvent, and a sharp reduction in coating product waste
- ✓ low baking temperatures of the 2 products
- ✓ longer product lifespan

# A TREATMENT WHICH ENSURES BETTER SEAL AND DURATION

This treatment is standard for our products DRC, KA, VFR, KQ, KM, all stands, all accessories in RAL 7035, and a limited series of ES and D93 cases, at no additional cost.

Cataphoresis, combined with special powder coatings, will be used (on request) to manufacture **products installed outdoors or in aggressive environments, where a "C4" degree of durability is required.**

With these treatments, the products will be 100% comparable to those in galvanised sheet metal.

**Within a few months we will have finished developing a treatment cycle with classification "C5X", with a duration of 1200 hours in a room with salt mist.**



Via Trevisani nel Mondo, 8  
31058 Susegana (Treviso) - Italy  
Tel. +39.0438.64155  
info@zanardo.com