CATAPHORETIC COATING

A brand new powder-coating system
integrated with cataphoresis treatment

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 immersionand** 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 m³** 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

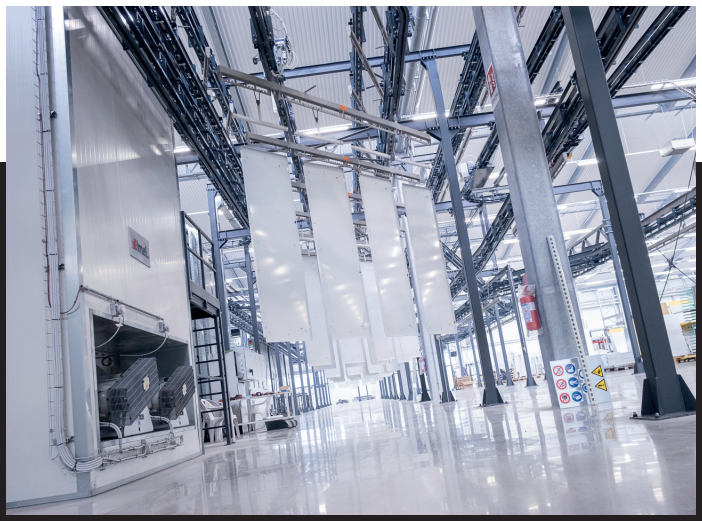
- **guaranteed protective** film coverage
- reduction in the applied coating thickness
- **double baking** for products
- production **speed**
- **guaranteed treatment** for cleaning the sheet metal, with six pre-treatment stages and passivation using nanotechnology
- less environmental pollution with 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

Please specify e-coating requirements when placing the order.

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.



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

ZANARDO
QUADRI ELETTRICI

zanardo.com