STRONG3000

TECHNICAL DATA SHEET

Industry Sheet · Revision: November 2026

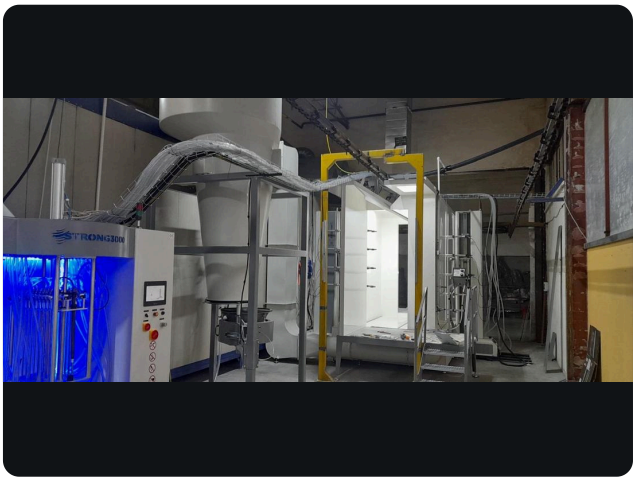
INDUSTRIES

Powder Coating Plants for Electrical Enclosures & Cabinets

Durable, corrosion-resistant powder coated finishes for enclosure bodies, sheet metal cabinets and outdoor housings — engineered for indoor and outdoor applications with box ovens, cyclone recovery and turnkey line configurations.

Open online

strong3000.com/en/industries/electrical-enclosures/



OVERVIEW

Engineering for Enclosure & Cabinet Powder Coating Lines.

Electrical enclosures and cabinets require surfaces that withstand corrosion, moisture and mechanical wear, applied consistently at production volume. STRONG3000 engineers the application, automation and curing technology behind these durable powder coated finishes — from enclosure bodies to cabinets and sheet metal components. We design electrical enclosure painting lines and cabinet powder coating booths around your production capacity and part geometry.

From box-type powder coating ovens to continuous conveyor lines, and from manual powder coating lines to fully automatic sheet metal curing ovens, we tailor the process to every part.



APPLICATIONS

Parts We Help Coat.

Every part has its own challenges — Faraday zones in box geometry, dielectric coverage on conductive busbars and UV resistance on outdoor housings. Below we summarize how we approach enclosure parts; you can download technical datasheets (PDF) for the part-specific engineering approach.



POWDER COATING

Enclosure Bodies (Sheet Metal Cabinets)

Faraday effect at inside corners and box sections makes coating difficult; conversion coating + epoxy-hybrid powder on cold-rolled/galvanized sheet for an insulating, corrosion-resistant enclosure body.

Technical Datasheet (PDF)

OWL Integration



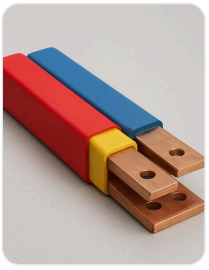
POWDER COATING

Outdoor Cabinets (Freestanding Enclosures)

Must withstand years of outdoor UV, rain and salt spray; galvanizing + polyester powder (duplex) for a UV-stable, corrosion-resistant freestanding cabinet finish.

Technical Datasheet (PDF)

OWL Integration



POWDER COATING

Conductive Busbars (Busbar Insulation Coating)

Dielectric strength weakens at the busbar's sharp edges; electrostatic spraying or fluidized-bed dipping with functional epoxy powder for non-porous insulation verified by holiday testing.

Technical Datasheet (PDF)



POWDER COATING

Covers, Doors & Frames

Color/texture consistency is decisive on visible covers and doors; uniform pretreatment on thin sheet + epoxy-hybrid/polyester powder for a smooth, durable front surface.

Technical Datasheet (PDF)



POWDER COATING

Mounting Plates (Backplates)

Galvanized plates carry a risk of outgassing and pull-back at hole edges; zinc-compatible pretreatment + epoxy-hybrid powder for an insulating, uniform mounting plate surface.

Technical Datasheet (PDF)



POWDER COATING

Cable Trunking & Wire Mesh Trays

Coverage of the back side and intersections is difficult on open wire mesh; epoxy-hybrid/polyester powder over galvanizing for an edge-protected, corrosion-resistant cable tray and trunking finish.

Technical Datasheet (PDF)

OWL Integration

SOLUTIONS

The Right Configuration for Cabinet Powder Coating Lines.

Powder Coating Line

Complete electrical enclosure painting lines with cyclone recovery booths and box-type / conveyor oven options for enclosure bodies, sheet metal cabinets and outdoor housings.

Robotics & Automation

Robotic application solutions with single- and two-axis reciprocators for consistent, high-volume enclosure production.

Turnkey Plants

Complete solutions engineered around your production targets — from manual powder coating lines to fully automatic conveyorized enclosure powder coating plants.

Smart AI Control

Adaptive control and line monitoring for repeatable results across a wide variety of enclosure parts.

WHY STRONG3000 FOR ELECTRICAL ENCLOSURES

The Right Powder and the Right Protection in Your Enclosure Powder Coating Plant.

Electrical enclosures require a finish that is both aesthetic and functional. For indoor applications, epoxy and epoxy-hybrid powders provide good electrical insulation and hardness; for outdoor housings and freestanding cabinets, polyester powders offer superior UV and weather resistance. STRONG3000 brings the entire system together as a single engineering partner — from the application gun to the cyclone recovery booth, and from the box oven to the conveyor line.



- ✓ Powder matching: epoxy/epoxy-hybrid for indoor, polyester for outdoor housings
- ✓ Box geometry & Faraday zone solution — interior surface application (OWL gun)
- ✓ Powder efficiency & fast color change with cyclone recovery
- ✓ From manual powder coating lines to fully automatic turnkey plants — a single integrator

CASE STUDIES

Projects from the Field.

Selected projects from STRONG3000 plants in operation.



Powder Coating · Booth

Range Hood / Extractor Cover Powder Coating Booth

Electrostatic powder coating application booth for range hood and extractor covers.

Scope	**Powder coating booth**
Project No.	**1467**



Enamel Furnace · Pretreatment

Enamel Furnace, Washing & Drying Line

Sintering (enamel) furnace, washing and drying line for enameling plants.

Country	**Türkiye**
Project No.	**0851**



Wet Enamel · Automatic Line

Valve & Pipe Wet Enamel Line

Automatic line-type wet enamel plant for the inside and outside of valves and pipes. Filtered, stackless application booths.

Country	**Germany**
Project No.	**0638**

See all case studies →

RELATED INDUSTRIES

Similar Powder Coating Line Solutions.

Metal Furniture & General Fabrication

Automatic powder coating booths and cyclone recovery lines for sheet metal parts, shelving systems and office furniture.

Pipes, Profiles & Wire Mesh

Continuous-conveyor powder coating line solutions for cable trunking, box profiles and panel fencing.

Home Appliances

High-volume powder coating and automation lines for white goods sheet metal parts and appliance housings.

WHY STRONG3000?

The Engineering Difference.

We don't sell equipment and walk away; we stay with your line from design through commissioning and beyond.

Integrated Engineering

Machinery, electrical, automation and software under one roof — not sourced and assembled.

In-House Technology

Smart AI and OWL are original STRONG3000 technologies developed in-house.

Proven Experience

25+ years of engineering; installation, commissioning and service in 40+ countries.

24/7 Support

Phone, remote connection and 24/7 live support via WhatsApp.

Quotes & Technical Consulting

Tell us about your part, capacity and process. A STRONG3000 engineer will get back to you with a tailored proposal.

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FOR A QUOTE, PREPARE

- Product to Be Coated
- Max. Part Dimensions
- Required Capacity
- Number of Colors
- Daily Color Changes
- Coating Process
- Project Timeline

Values are typical ranges; final values are confirmed per project by STRONG3000 engineering. This sheet summarises the product page on our website; scan the QR code for the latest information.