STRONG3000

TECHNICAL DATA SHEET

Industry Sheet · Revision: November 2026

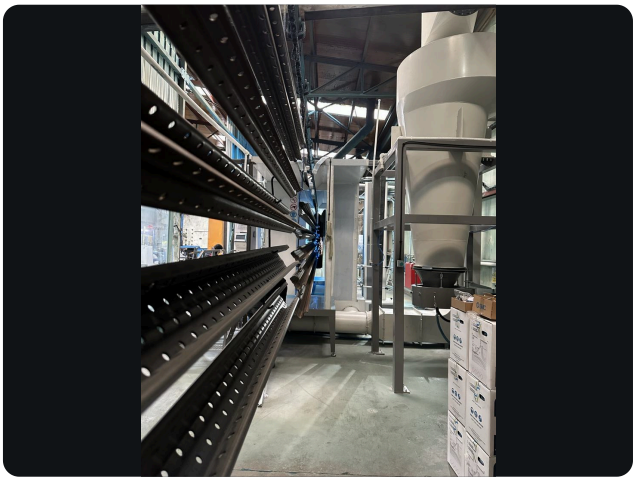
INDUSTRIES

Powder Coating Lines for Pipes, Profiles & Wire Fencing

Corrosion-resistant, long-lasting finishes for steel pipes, box profiles, panel fencing and wire mesh — engineered solutions with continuous-conveyor powder coating lines or wet paint systems for oversized parts.

Open online

strong3000.com/en/industries/pipes-profiles/



OVERVIEW

Finishing Line Engineering for Pipes, Profiles & Wire/Mesh.

From pipe powder coating lines to panel fence coating plants, and from box profile powder coating machines to fence wire coating equipment, every part type needs consistent finishes that withstand corrosion, weather and mechanical wear. STRONG3000 engineers the application, automation and curing technology.

From functional corrosion coatings to duplex galvanizing + powder systems, we tailor the process to every part type.



APPLICATIONS

Parts We Help Coat.

Pipe and profile parts must be coated at high efficiency on a continuous line and repeatably despite variations in cross-section and length. Below we summarize how we approach each part type; powder coating or wet (liquid) paint is selected according to material, geometry and service conditions. You can download part-specific technical datasheets (PDF) for the detailed engineering approach.



POWDER COATING

Round Steel Pipes (Continuous Line)

A uniform all-round film on the cylindrical surface and edge coverage at pipe ends are required on a continuous line; high-efficiency coating with polyester powder resistant to outdoor corrosion.

Technical Datasheet (PDF)

OWL Integration



POWDER COATING

Box Profiles (Square & Rectangular)

The Faraday cage effect causes low film build at corner radii and inside corners; current limiting and a tuned gun recipe give fully covered, corrosion-resistant powder coating on box profiles.

Technical Datasheet (PDF)

OWL Integration



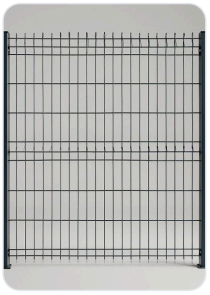
POWDER COATING

Railings & Barriers (Welded Structures)

Numerous welded joints and inside corners create Faraday effect; robotic/manual application and conversion coating for an outdoor-durable, decorative powder finish.

Technical Datasheet (PDF)

OWL Integration



POWDER COATING

Panel Fencing & Welded Wire Mesh

Back-side coverage through wrap-around on thin wire geometry and adhesion over galvanizing are critical; a duplex (galvanizing + polyester powder) system for long-lasting panel fencing.

Technical Datasheet (PDF)

OWL Integration



WET PAINT

Long / Oversized Structural Profiles

Airless wet paint for long/heavy profiles that do not fit in ovens; a zinc-rich epoxy + polyurethane multi-coat system with stripe coating at welds and edges for a film that meets the required corrosivity class.

Technical Datasheet (PDF)



POWDER COATING

Aluminum Extrusion Profiles (Facade & Structural)

Faraday effect in the internal channels of complex extrusion sections and rapid heating of thin walls are the challenges; chrome-free pretreatment + QUALICOAT-grade polyester for architectural exterior facade durability.

Technical Datasheet (PDF)

OWL Integration

SOLUTIONS

The Right Coating Process for Pipes & Profiles.

Powder Coating Line

Continuous-conveyor system; corrosion-resistant, high-efficiency coating for pipes, box profiles, panel fencing and wire mesh.

Wet Paint System

Airless wet paint application systems for long or large structural profiles that do not fit in ovens.

Automation & Conveyors

Reciprocators, robotic application and overhead conveyor systems for consistent, high-volume pipe and profile production.

Turnkey Powder Coating Plant

Complete finishing plants engineered around your pipe and profile production targets — from pretreatment to oven.

Smart AI Control

Adaptive control and process monitoring for repeatable results across a wide variety of pipes and profiles.

WHY STRONG3000 FOR PIPES & PROFILES

From Wire Fencing to Structural Profiles: Protection Regardless of Length.

Pipe powder coating lines, panel fence coating plants, fence wire coating equipment and oversized structural profiles — part sizes vary over a wide range. Continuous-conveyor powder coating lines process standard parts at high efficiency, while profiles that do not fit in ovens are coated with a wet paint system. STRONG3000 offers both processes from a single engineering partner.

- ✓ Continuous-conveyor powder coating line or wet paint system — the right choice for each part
- ✓ Duplex galvanizing + powder and functional corrosion protection coatings
- ✓ High-volume automation, cyclone recovery & turnkey installation



CASE STUDIES

Projects from the Field.

Selected projects from STRONG3000 plants in operation.



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**



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**

See all case studies →

RELATED INDUSTRIES

Other Metal Coating Applications.

Aluminum Profiles & Facades

Aluminum extrusion profile powder coating lines; QUALICOAT-grade coating and chrome-free pretreatment.

Metal Furniture & General Metal Fabrication

Automatic powder coating booths, cyclone recovery and complete powder coating plant solutions.

Electrical Enclosures & Cabinets

Enclosure powder coating plants, box-type powder coating ovens and sheet metal coating lines.

Agriculture & Heavy Industry

Combined KTL + powder coating lines for heavy construction machinery and agricultural equipment.

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.