STRONG3000

TECHNICAL DATA SHEET

Industry Sheet · Revision: November 2026

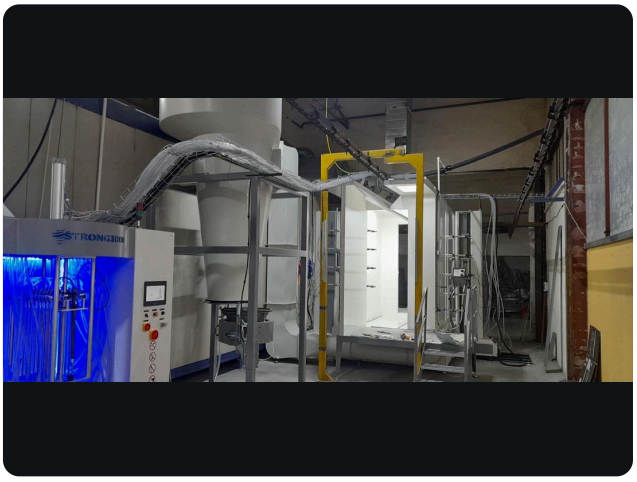
INDUSTRIES

# Powder Coating Lines for Metal Furniture & General Metal Fabrication

Durable, consistent finishes across a wide range — from office furniture to steel structures, from wire panels to sheet metal parts — with cyclone recovery booths, corona/tribo guns and turnkey powder coating plants engineered for your production volume.

**Open online**

strong3000.com/en/industries/metal-industry/



OVERVIEW

## Engineering for Metal Furniture & General Metal Fabrication Lines.

Metal furniture and general metal fabrication require surfaces that withstand corrosion, wear and daily use, applied consistently across a wide variety of part geometries and masses. STRONG3000 engineers powder coating application, automation and curing technology — from office furniture to steel structures, and from wire mesh to sheet metal housings.

From individual application equipment (corona or tribo guns, cyclone recovery booths, conveyor ovens) to complete turnkey powder coating plants, we design a complete line configuration for every part and production target. Wet paint can also be applied for heat-sensitive parts or parts with special requirements.



APPLICATIONS

# Parts We Help Coat.

For exterior/decorative and structural metal, the right process is thermoset powder coating; each part comes with its own edge pull-back, Faraday zone and corrosion challenges. Below we summarize how we approach these parts; you can download technical datasheets (PDF) for the part-specific engineering/metallurgy approach.



POWDER COATING

### Steel Cabinet, Locker & File Cabinet Bodies

Risk of Faraday effect and edge pull-back at folded edges and weld zones; conversion coating + hybrid powder on cold-rolled sheet for a consistent, durable cabinet finish.

Technical Datasheet (PDF)

OWL Integration



POWDER COATING

### Industrial Shelving & Storage Uprights/Beams

Faraday effect in perforated uprights and box sections; polyester powder that resists scratching under load for protected shelving and storage components.

Technical Datasheet (PDF)

OWL Integration



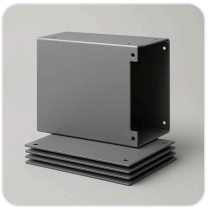
POWDER COATING

### Wire Panels & Welded Wire Fencing/Mesh

Every wire intersection is a micro Faraday cage; instead of forcing the voltage, current limiting and gun geometry deliver an outdoor-durable powder finish that reaches the back of the wire.

Technical Datasheet (PDF)

OWL Integration



POWDER COATING

### Sheet Metal Parts & Cabinet/Housing Panels

Color/gloss consistency over large surfaces and coverage at cut edges are critical; conversion coating + powder coating for a smooth, durable sheet metal finish.

Technical Datasheet (PDF)



POWDER COATING

### Structural Steel Profiles & Railings

Thick sections, weld seams and sharp edges are challenging; blasting + polyester powder (zinc-primed where needed) for long-lasting resistance to atmospheric corrosion.

Technical Datasheet (PDF)

OWL Integration



POWDER COATING

### Tube/Profile Furniture Legs & Continuous Lines

Rapid heating and color drift on thin-walled tubes, risk of pull-back at tube ends/seams; hanging geometry and a uniform oven profile for a smooth, decorative powder coated finish.

Technical Datasheet (PDF)

OWL Integration

SOLUTIONS

# The Right Process for Metal Furniture & General Metal Fabrication.

### Powder Coating Line

Automatic powder coating booths, cyclone recovery and conveyor ovens for metal furniture, office furniture, shelving systems, sheet metal parts and steel structures.

### Cyclone Recovery Booth

Cyclone recovery system that minimizes powder waste; metal part coating with fast color change and high application efficiency.

### Automation & Robotics

Single/two-axis reciprocators and robotic application systems for consistent, high-volume metal part coating; supports complex geometries and mixed products.

### Turnkey Powder Coating Plant

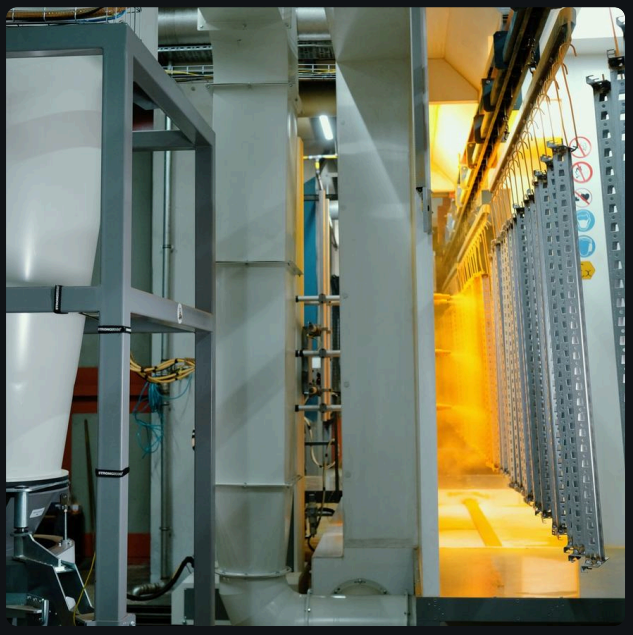
A complete turnkey powder coating plant consisting of a pretreatment tunnel, automatic powder coating booth, cyclone recovery and curing oven — tailored to your metal industry production targets.

WHY STRONG3000 FOR METAL FURNITURE & GENERAL METAL FABRICATION

## A Single Point of Contact for Your Complete Powder Coating Plant.

STRONG3000's expertise in corona/tribo gun technology, cyclone recovery booths, automation and turnkey line engineering means a single partner can design a complete powder coating plant that scales to your mixed production needs.

- ✓ Corona & tribo gun options — the right charging for each part
- ✓ Low powder consumption and fast color change with cyclone recovery
- ✓ Complex geometry & mixed product application (OWL gun technology)
- ✓ High-volume automatic conveyorized lines & complete turnkey plants



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 →

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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| Phone | +90 212 438 56 94 · +90 534 037 98 10 |
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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.