STRONG3000

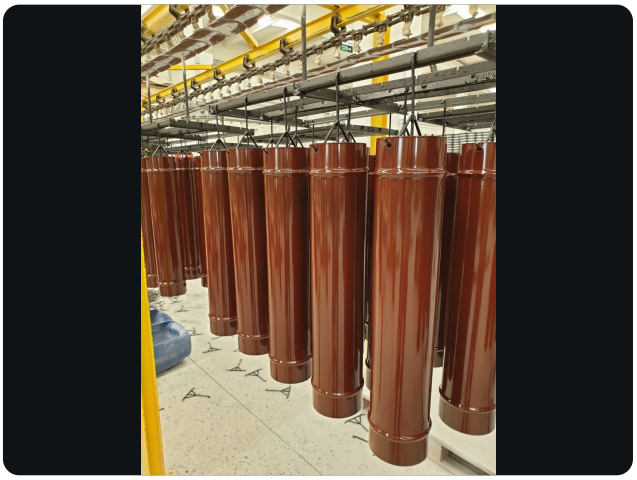
TECHNICAL DATA SHEET

Industry Sheet · Revision: November 2026

INDUSTRIES

Stove & Flue Pipe Coating Equipment: Powder Enamel, Wet Enamel & Heat-Resistant Powder Coating

From flue pipe coating lines to cast iron stove body enameling plants — high-temperature powder enamel (~780–850 °C fusion), wet (slip) enamel and silicone polyester powder coating, engineered for production volume.



Open online

strong3000.com/en/industries/stoves/

OVERVIEW

Engineering for Stove & Flue Pipe Coating Lines.

Stoves and flue pipes expose their surfaces directly to high temperatures, which makes heat-resistant enamel — a glass layer fused to metal at approximately 780–850°C, not a paint — ideal for this application. STRONG3000 engineers the application, automation and firing technology behind electrostatic powder enamel for steel bodies and pipes, and wet (slip) enamel for cast iron stove bodies.

From individual application equipment to complete turnkey lines, we tailor the process to every stove and flue pipe part and production target.



APPLICATIONS

Parts We Help Coat.

Heat-resistant powder coating is also used on decorative, lower-temperature exterior surfaces. Below we summarize how we approach each part with the right process, the right substrate and the right firing window.



POWDER ENAMEL

Stove Combustion Chamber / Inner Firebox (Steel)

Risk of fish scale and outgassing at weld seams; decarburized steel and ~800-850°C fusion firing for a flame-side-resistant, self-cleaning powder enamel interior.

Technical Datasheet (PDF)

OWL Integration



POWDER ENAMEL

Flue / Stove Pipes (Steel, Continuous Line)

Uniform thickness on the thin-walled cylinder and coverage of the weld seam are critical; interior and exterior powder enamel on a continuous line for resistance to flue gas temperatures and acidic condensate.

Technical Datasheet (PDF)

OWL Integration



WET ENAMEL

Cast Iron Stove Bodies & Door Panels

Outgassing from porosity in cast iron can cause blistering; ground coat + cover coat wet (slip) enamel and controlled annealing for a decorative, non-porous body resistant to thermal cycling.

Technical Datasheet (PDF)



WET ENAMEL

Barbecue Cooking Grates & Pan Supports

Risk of drips at bar ends and outgassing from casting porosity; food-safe wet (slip) enamel withstands open flame, thermal shock and spatula wear.

Technical Datasheet (PDF)



POWDER ENAMEL

Pellet Stove Burn Pots

Continuous coverage of the perforated wall without clogging the holes is critical; heat-resistant powder enamel provides a self-cleaning surface against combustion above 500°C, slag and acidic condensate.

Technical Datasheet (PDF)

OWL Integration



POWDER COATING

Stove Outer Casings & Decorative Panels (Steel)

On exterior surfaces insulated from the flame, appearance and color consistency come first; heat-resistant thermoset powder for a decorative finish that withstands radiant heat and indoor use.

Technical Datasheet (PDF)

SOLUTIONS

From High-Temperature Powder Enamel to Silicone Polyester Powder Coating Lines: The Right Process for Every Part.

Powder Enamel

Heat-resistant vitreous enamel coating equipment, electrostatically applied and fired at ~780–850 °C, for steel flue/stove pipes and panels.

Wet Enamel (Slip)

Wet (slip) enamel application equipment for dipping, flow coating or spraying cast iron stove bodies and complex hollow parts.

Automation

Multi-axis reciprocators and robotic automation systems for consistent, high-volume stove and flue pipe production.

Turnkey Enamel Plant

Complete powder enamel and wet enamel coating plants engineered around your stove and flue pipe production targets.

Smart AI Control

Adaptive control for repeatable results in the high-temperature enamel process across a wide variety of stove and flue pipe parts.

OWL Flue Pipe Application

OWL intelligent application equipment for uniform powder enamel thickness inside pipes and in deep stove geometries.

WHY STRONG3000 FOR STOVES & FLUES

Our Heat-Resistant Powder Enamel & Wet Enamel Expertise Sets Us Apart.

STRONG3000's expertise in both techniques means a single partner can engineer both the powder and wet enamel stages.

- ✓ Heat-resistant powder & wet (slip) enamel — both techniques under one roof
- ✓ Interior and exterior flue pipe coating & deep geometry application (OWL)
- ✓ High-volume automation & turnkey stove coating oven solutions
- ✓ The right process choice between silicone polyester powder coating and true vitreous enamel



CASE STUDIES

Enamel Projects from the Field.

Selected projects from STRONG3000 plants in operation.



Wet Enamel · U-Type Booth

Grate & Cookware Wet Enamel Plant

Wet enamel coating plant for grates and pots/pans, including a U-type enamel application booth.

Country	**Türkiye**
Project No.	**1204**

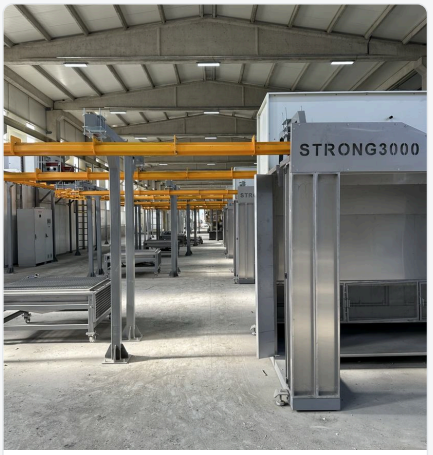


Enamel · Overhead Conveyor

Cooktop Burner Cap Enameling Line

Enamel coating line with overhead conveyor for cooktop burner caps.

Country	**Türkiye**
Project No.	**0559**



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 →

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.