STRONG3000

TECHNICAL DATA SHEET

Product Data Sheet · Revision: November 2026

INDUSTRIAL OVENS

U-Type Ovens

U-Type Ovens bring entry and exit to the same side with a U-turn conveyor layout. Engineered both as powder coating curing ovens (160–220 °C) and powder enamel firing ovens (780–860 °C) — with up to 30% floor-space saving.

Open online

strong3000.com/en/products/u-type-ovens/



KEY FIGURES

Concept	Application	Temperature	Advantage
U-turn conveyor — entry/exit on one side	**Powder curing & enamel firing**	**Powder 160–220 °C · Enamel 780–860 °C**	**Up to 30% space saving**

OVERVIEW

Entry and Exit on the Same Side.

U-type ovens fold the conveyor path into a U shape so the inlet and outlet openings sit on the same side of the oven. This requires far less floor space than a long straight tunnel and keeps loading/unloading together to reduce heat loss.

Curing temperature is set to the process — typically the ~160–200°C range for powder coating. An insulated enclosure and controlled circulation maintain uniform temperature across the compact volume. Available with gas or electric heating.



KEY BENEFITS

Compact Layout.

Space Saving

Minimal floor footprint through the U-shaped layout.

Same-Side Entry/Exit

Consolidates loading and unloading at a single point.

Uniform Temperature

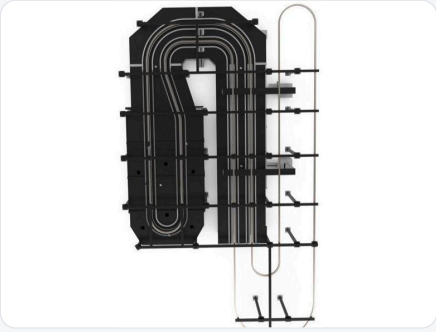
Controlled, even heat distribution across the compact volume.

Flexible Heat Source

Gas or electric heating to suit your plant infrastructure.

GALLERY

Take a Closer Look.







TECHNICAL SPECIFICATIONS

U-Type Ovens — Technical Specifications.

Values are typical ranges; final values are confirmed per project by STRONG3000 engineering.

Concept	U-turn conveyor — entry/exit on one side
Application	Powder curing & enamel firing
Temperature	Powder 160–220 °C · Enamel 780–860 °C
Advantage	Up to 30% space saving
Control	PLC + touchscreen

THE WHOLE SYSTEM

Order of the Powder Coating Line.

The U-type oven is the curing step of the line; the conveyor makes a U inside the oven and exits on the same side.



PRETREATMENT

Industrial Washing Systems

Oil, grease and swarf are removed by multi-stage spray washing; an optional phosphate / nano-ceramic stage is added.

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DRYING

Dry-off Oven

Water and moisture left on wet parts from pretreatment are driven off before coating (typically ~100–160 °C).

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POWDER APPLICATION

PVC Powder Coating Booths

Powder is applied to the part by automatic guns; powder that does not stick is recovered by the mono-cyclone.

Explore →

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You are here

CURING

U-Type Ovens

With a U-turn conveyor, entry and exit are on the same side and curing takes place in a compact footprint.

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

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