STRONG3000

TECHNICAL DATA SHEET

Product Data Sheet · Revision: November 2026

INDUSTRIAL OVENS

Box Ovens

Box Ovens provide flexible batch curing for varied and low-to-mid volume production. Engineered both as box-type powder curing ovens (160–220 °C) and box-type powder enamel firing ovens (780–850 °C).

Open online

strong3000.com/en/products/batch-ovens/



KEY FIGURES

Oven Type	Operating Mode	Maximum Temperature	Temperature Control
Box / batch	**Batch loading**	**Powder coating: 220 °C · Powder enamel: 850 °C**	**Digital thermostat and PLC panel; for powder enamel, recipe-based heating, holding and cooling on a touchscreen**

OVERVIEW

Flexibility for Varied Production.

Box (batch) ovens process parts loaded in batches through a single curing cycle. Because they operate in discrete cycles rather than a continuous conveyor flow, they are ideal for different part sizes, geometries and low-series production runs.

Curing temperature is set to the process — typically the ~160–200°C range for powder coating. An insulated enclosure and controlled air circulation maintain uniform temperature across the whole batch.



KEY BENEFITS

Batch Flexibility.

Process Flexibility

Adapts to different part sizes and curing cycles.

Uniform Temperature

Even heat across the batch through controlled circulation.

Suited to Low Volumes

Economical solution for varied and low-series production.

Floor-Level Loading

The oven floor is level with your factory floor, so parts load easily by trolley.

GALLERY

Take a Closer Look.






TECHNICAL SPECIFICATIONS

Box Ovens — Technical Specifications.

Oven dimensions are engineered to your largest part and your plant.

Oven Type	Box / batch
Operating Mode	Batch loading
Maximum Temperature	Powder coating: 220 °C · Powder enamel: 850 °C
Temperature Control	Digital thermostat and PLC panel; for powder enamel, recipe-based heating, holding and cooling on a touchscreen
Chamber Dimensions	Engineered to the largest part and the ceiling height
Capacity	Set by batch size and cycle time
Heat Source	Powder coating: burner-fired, stainless steel combustion chamber (heat exchanger) · Powder enamel: per project
Insulation	Powder coating: 150 mm high-density rock wool and glass wool panels · Powder enamel: ceramic fibre blankets and refractory brick
Door and Loading	Manual or automatic trolley at floor level; pneumatic or motorized guillotine door for powder enamel

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.