STRONG3000

TECHNICAL DATA SHEET

Product Data Sheet · Revision: November 2026

BOOTHS & RECOVERY

PVC Powder Coating Booths

Powder-repellent PVC walls, automatic floor powder evacuation and monocyclone recovery in one booth: powder coating booths that bring color changes down to minutes and return overspray powder to production.

Open online

strong3000.com/en/products/pvc-monocyclone-booths/



KEY FIGURES

Body	Booth types	Powder evacuation	Recovery
Powder-repellent PVC panels	**Monocyclone, round, compact (integrated powder center)**	**Floor air valves + under-booth extraction**	**Monocyclone + after-filter (hopper under filter)**

OVERVIEW

Why a PVC Booth?

In powder coating, cleaning the booth interior is the longest part of a color change. PVC walls are smooth and do not hold powder; instead of sticking, powder slides down. The interior is cleaned quickly and no contamination is carried into the next color.

Powder extracted from the booth is separated and reclaimed in the monocyclone. Unlike cartridge-filter booths, there is no need to change filter cartridges for every color — saving time and powder on lines that change color often.



- Smooth PVC walls that do not hold powder
- Automatic powder evacuation from the floor
- Recovery with monocyclone + after-filter
- Full integration with the powder center and TP-2 transfer pump

BOOTH TYPES

Choose the Right PVC Booth for Your Line.

All three PVC booth types work on the same principle: a powder-repellent body, floor evacuation and monocyclone recovery. The difference is the body form and where the powder center sits.



Monocyclone PVC booth — with automatic gun reciprocators on both sides

STANDARD

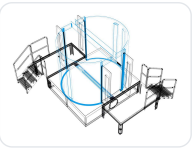
Mono-Cyclone PVC Booth

The standard solution for conveyorized lines. Works with automatic guns, reciprocators and manual touch-up stations; the powder center stands next to the booth as a separate unit.

CORNER-FREE BODY

Round PVC Booth

With its cylindrical body there are no corners for powder to collect. Cleaning is even shorter — designed for lines that change color many times a day.



SINGLE UNIT

Compact PVC Booth

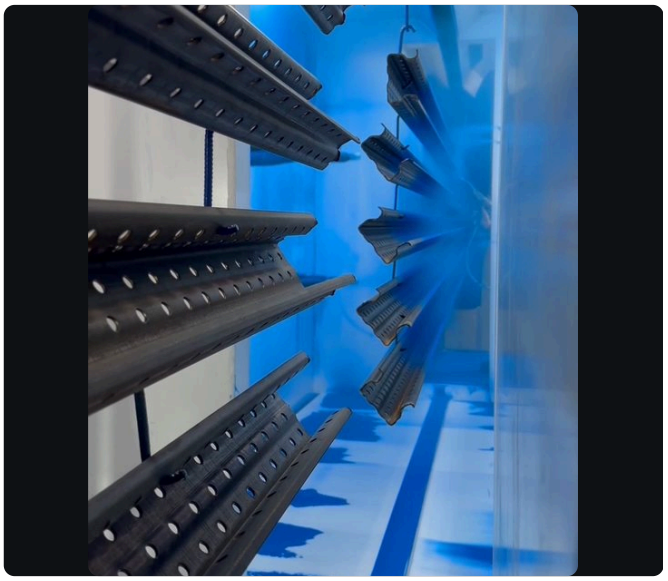
The powder center is integrated into the booth body. No separate floor space is needed for the powder center — ideal for plants with limited space and for a single-unit solution.



Explore the All-in-One system →

HOW IT WORKS

From the Booth to the Cyclone, from the Cyclone to the Gun.



1. **Application**
   Most of the powder from the guns adheres to the part; the small amount that does not falls to the booth floor.
2. **Floor evacuation**
   Air valves along the centre of the floor periodically push the powder towards the wall bases.
3. **Extraction**
   Powder is drawn through the extraction ducts under the booth to the monocyclone.
4. **Separation**
   The monocyclone separates powder from the air; very fine particles go to the after-filter and are collected in the hopper below it.
5. **Return**
   The TP-2 transfer pump sends powder from the cyclone straight to the powder center hopper, where it mixes with virgin powder and goes back to the guns.

COLOR CHANGE

A New Color in Minutes.

When the PVC booth, powder center and monocyclone work together, color change becomes a planned and repeatable routine.

10–15 min
Between similar colors

20–25 min
Between contrasting colors (e.g. white → black)

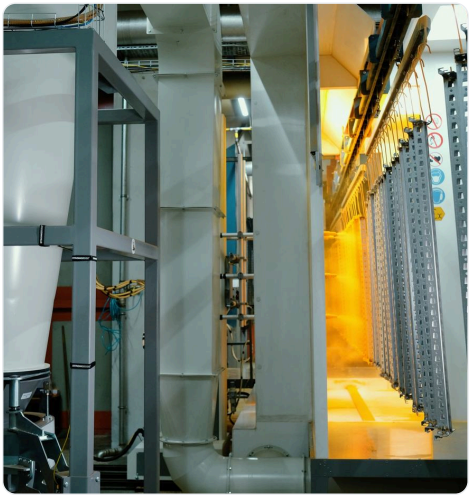
1 operator
With one experienced operator

1. **Powder center cleaning**
   The injectors and level sensor are lifted by a piston and the hopper is removed; clean compressed air purges the injectors, hoses and guns.
2. **Cyclone cleaning**
   Only the lower section of the cyclone is opened by pistons and cleaned.
3. **Booth and guns**
   The operator cleans the PVC walls quickly; airborne powder is drawn to the cyclone by the extraction points on the powder center.

How does the powder center work? →

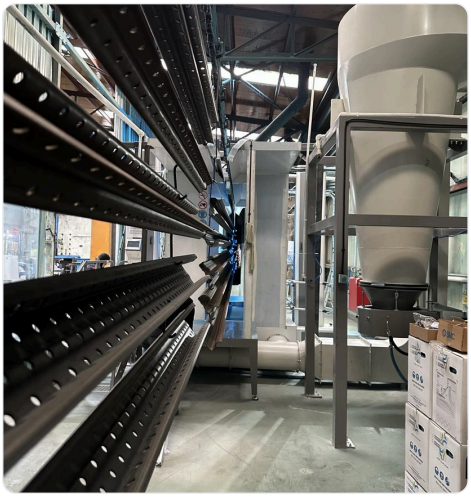
GALLERY

From the Field.













TECHNICAL SPECIFICATIONS

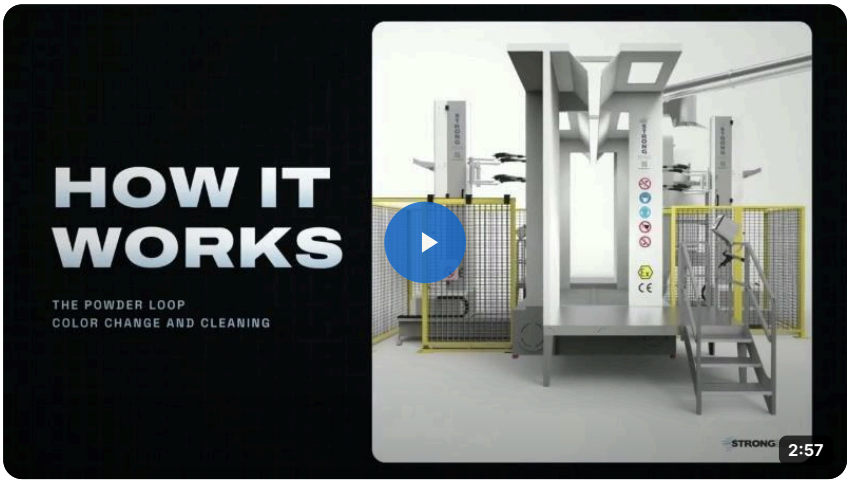
PVC Powder Coating Booths — Specifications.

Booth dimensions, fan capacity and number of guns are engineered to part size and line speed.

Body	Powder-repellent PVC panels
Booth types	Monocyclone, round, compact (integrated powder center)
Powder evacuation	Floor air valves + under-booth extraction
Recovery	Monocyclone + after-filter (hopper under filter)
Powder transfer	TP-2 transfer pump — 6 kg per minute over 15 m
Color change	Similar colors 10–15 min · contrasting colors 20–25 min
Compatible equipment	Smart / Smart AI / Elite series guns, reciprocators, powder center

VIDEO

See It in Action.



PVC Monocyclone Powder Coating Booth — Fast Color Change & Powder Recovery

Watch on YouTube ↗

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.

Production Center	Ömerli Mah. Elektro 2000 Sanayi Sitesi B18 Blok, Tunaboyu Sk. No:1AZ, 34555 Arnavutköy / Istanbul, Türkiye
Phone	+90 212 438 56 94 · +90 534 037 98 10
E-mail	info@strong3000.com
24/7 WhatsApp	+90 537 353 54 19
Web	strong3000.com/en/products/pvc-monocyclone-booths/

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.