STRONG3000

TECHNICAL DATA SHEET

Product Data Sheet · Revision: November 2026

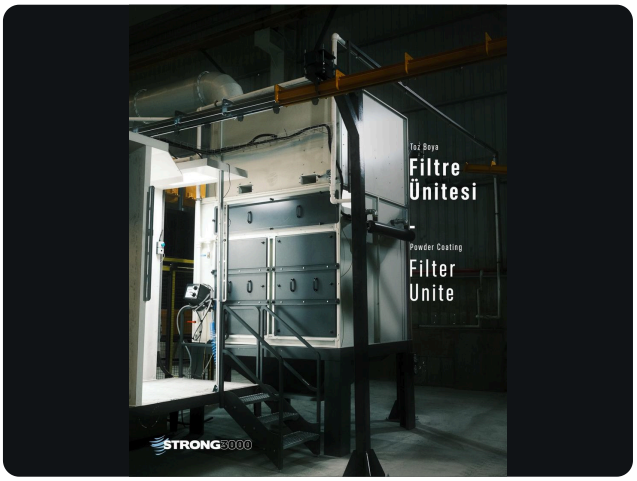
BOOTHS & RECOVERY

Filter Units

Filter Units provide final-stage filtration with a cartridge after-filter; they clean the air before returning it to the shop floor and complete the powder recovery chain after the cyclone/monocyclone.

Open online

strong3000.com/en/products/filter-units/



KEY FIGURES

Filtration	Emission	Cleaning	Fan flow rate
Cartridge filter, efficiency ≥ 99.9%	**< 5 mg/m³**	**Jet-pulse, 5 – 6 bar**	**5,000 – 15,000 m³/h (per project)**

OVERVIEW

Designed for Clean Air Return.

After-filter cartridges complete the powder recovery chain, securing the recovery of overspray powder and maintaining clean air return. They work as a coordinated line with STRONG3000 cyclones, monocyclones and booths.



KEY BENEFITS

Clean Air, Complete Recovery.

Cartridge Filtration

After-filter cartridges capture fine powder.

Clean Air Return

Cleaned air returns safely to the shop floor.

Final-Stage Recovery

Completes the powder recovery chain.

System Compatible

Works with cyclones, monocyclones and booths.

GALLERY

Take a Closer Look.







TECHNICAL SPECIFICATIONS

Filter Units — Technical Specifications.

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

Filtration	Cartridge filter, efficiency ≥ 99.9%
Emission	< 5 mg/m³
Cleaning	Jet-pulse, 5 – 6 bar
Fan flow rate	5,000 – 15,000 m³/h (per project)
Differential pressure monitoring	Via pressure gauge / PLC

THE WHOLE SYSTEM

The Powder Recovery Chain.

The after-filter is the last link of the recovery chain: it holds back the very fine powder the cyclone cannot separate and returns clean air to the shop floor.

1



BOOTH

PVC Powder Coating Booths

Powder that does not stick collects on the booth floor and is drawn into the mono-cyclone through the suction ducts.

Explore →

2



SEPARATION

Cyclones

Separates the powder coming from the booth from the air; the separated powder goes back into production.

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3

You are here

AFTER-FILTER

Filter Units

Holds back the very fine powder the cyclone cannot separate in its cartridges; the cleaned air returns to the shop floor.

4



TRANSFER

TP-2 Transfer Pump

There is no hopper under the cyclone; TP-2 carries the powder separated in the cyclone straight to the powder center hopper on the dense-phase principle.

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5



MIXING AND FEEDING

Powder Centers

Recovered powder mixes with virgin powder in the hopper; the injectors deliver it to the guns through the hoses.

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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.