STRONG3000

TECHNICAL DATA SHEET

Product Data Sheet · Revision: November 2026

POWDER MANAGEMENT

Drum Feed System

The drum feed system draws powder straight from the powder drum with a transfer pump and delivers it to the booth. A scale in the base measures the powder in the drum by weight; the vibrating base plate and back-air from the suction tube keep the powder flowing.

Open online
strong3000.com/en/products/drum-feed-system/



KEY FIGURES

Feeding	Extraction	Fluidizing	Flow support
Direct suction from the powder drum (no intermediate hopper required)	**Embossed-tip suction tube**	**Back-air through the suction tube**	**Vibration motor under the base plate**

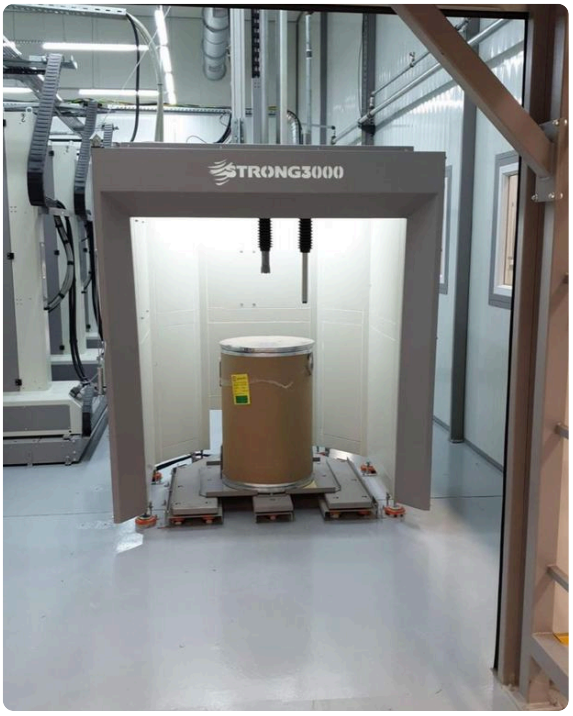
OVERVIEW

From Drum to Booth, No Intermediate Hopper.

The drum feed system is designed to use powder directly from the drum it is supplied in. An embossed-tip suction tube immersed in the drum picks up the powder, and the transfer pump delivers it to the booth or any required point. There is no need to transfer the powder into a separate hopper.

The system has no fluidized bed. The base the drum stands on carries a weighing system and a vibration motor: the scale measures the powder in the drum by weight to show the fill level, while the vibration prevents bridging and keeps the powder flowing to the suction point.

Air is blown back through the suction tube to fluidize the powder in the drum. Compacted powder loosens and suction continues steadily.



KEY BENEFITS

Weighed, Fluidized, Continuously Flowing Powder.

Weight-Based Level Monitoring

A scale in the base measures the powder in the drum by weight.

Vibrating Base Plate

Prevents bridging and keeps powder flowing to the suction point.

Back-Air Fluidizing

Air blown through the suction tube loosens the powder in the drum.

Delivery by Transfer Pump

Powder is delivered to the booth or any required point by the transfer pump.

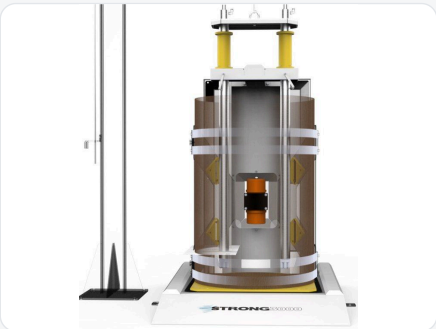
GALLERY

Take a Closer Look.









TECHNICAL SPECIFICATIONS

Drum Feed System — Technical Specifications.

The configuration is finalized per project with STRONG3000 engineering.

Feeding	Direct suction from the powder drum (no intermediate hopper required)
Extraction	Embossed-tip suction tube
Fluidizing	Back-air through the suction tube
Flow support	Vibration motor under the base plate
Level measurement	Weighing system in the base (by weight)
Delivery	By transfer pump to the booth or any required point
Color change	Easy cleaning
Integration	Fresh feed and recovery lines

THE WHOLE SYSTEM

The Powder Feed Chain.

Drum feeding is where the feed chain starts: virgin powder comes straight from the drum without an intermediate hopper, mixes with recovered powder and reaches the guns through the injectors.

1

You are here

VIRGIN POWDER

Drum Feed System

Draws virgin powder straight from the drum; a scale shows the fill level, and vibration plus reverse air keep the suction steady.

2



SIEVING AND MIXING

Recovery & Sieving Units

Recovers the powder coming from the booth, sieves it and cleans out foreign matter, then mixes it with virgin powder.

Explore →

3



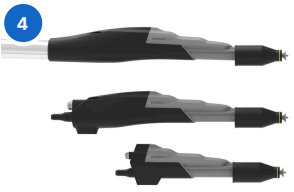
FEEDING

Powder Coating Injectors

Delivers a stable, measurable powder flow to the guns with venturi or dense-phase feeding.

Explore →

4



APPLICATION

Automatic Powder Coating Gun

Applies powder to the part repeatably in robot and line applications.

Explore →

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.