STRONG3000

TECHNICAL DATA SHEET

Product Data Sheet · Revision: November 2026

POWDER MANAGEMENT

TP-2 Transfer Pump

The TP-2 Transfer Pump moves powder gently and at high rate between hopper, box and powder center — dense-phase transfer technology engineered for minimal powder degradation.

Open online

strong3000.com/en/products/transfer-pump-tp2/



KEY FIGURES

Operating principle	Powder flow rate	Conveying air	Wear parts
Venturi powder transfer	**50 – 400 g/min (adjustable)**	**6 – 8 bar, dry & oil-free**	**Replaceable venturi set**

OVERVIEW

High-Rate Transfer Without Damaging the Powder.

The TP-2 Transfer Pump works on the dense-phase principle — moving powder at low velocity and a low air/powder ratio for minimal degradation.

A gentle handling path reduces particle breakdown and fines generation, protecting both powder recovery efficiency and coating quality. It operates as part of a coordinated line with the STRONG3000 powder center, hoppers and big-bag systems.



KEY BENEFITS

Gentle, Reliable Transfer.

Dense-Phase Transfer

Stable handling with low-velocity dense-phase flow.

Gentle Handling

Protects particles with minimal powder degradation.

High Transfer Rate

High-capacity transfer between hopper, box and powder center.

System Compatible

Works with STRONG3000 powder center and hoppers.

TECHNICAL SPECIFICATIONS

TP-2 Transfer Pump — Technical Specifications.

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

Operating principle	Venturi powder transfer
Powder flow rate	50 – 400 g/min (adjustable)
Conveying air	6 – 8 bar, dry & oil-free
Wear parts	Replaceable venturi set

THE WHOLE SYSTEM

The Powder Recovery Chain.

TP-2 is the link that carries powder separated in the cyclone to the powder center: with no hopper under the cyclone, recovered powder goes straight back into production.

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



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.

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You are here

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.

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.