STRONG3000

TECHNICAL DATA SHEET

Product Data Sheet · Revision: November 2026

POWDER MANAGEMENT

Powder Enamel Injectors

Powder enamel injectors are designed for abrasive glass-frit enamel powder. Because enamel powder is an abrasive glass frit, wear-resistant components are essential — a dedicated flow path ensures stable, repeatable feeding.



Open online
strong3000.com/en/products/enamel-injectors/

KEY FIGURES

Application	Wear set	Powder flow rate	Conveying air
Powder enamel (abrasive powder)	**Wear-resistant parts suited to enamel**	**50 – 400 g/min**	**6 – 8 bar, dry & oil-free**

OVERVIEW

A Flow Path Designed for Abrasive Enamel Powder.

Enamel powder is an abrasive glass frit, so it creates a far higher wear load than standard powder coating injectors face. Powder enamel injectors meet this load with wear-resistant components and a dedicated flow path — venturi and dense-phase feeding options deliver a stable powder flow rate.

The wear-resistant flow path extends service intervals and ensures consistent feeding. It works as part of a coordinated line with STRONG3000 guns, control units and the powder center.



KEY BENEFITS

Wear-Resistant Enamel Feeding.

Wear-Resistant Flow Path
Dedicated components to withstand abrasive glass-frit enamel powder.

Stable Feeding
Steady, fluctuation-free powder flow to the guns.

Long Service Life
Long wear part life and low spare part costs.

System Compatible
Works with STRONG3000 guns and the powder center.

TECHNICAL SPECIFICATIONS

Powder Enamel Injectors — Technical Specifications.

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

Application	Powder enamel (abrasive powder)
Wear set	Wear-resistant parts suited to enamel
Powder flow rate	50 – 400 g/min
Conveying air	6 – 8 bar, dry & oil-free

THE WHOLE SYSTEM

Order of the Powder Enamel Line.

The injector is the link that carries enamel powder to the gun; it is engineered together with the rest of the line.



PRETREATMENT

Industrial Washing Systems

Oil, grease and swarf are removed by multi-stage spray washing; an optional phosphate / nano-ceramic stage is added.

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DRYING

Dry-off Oven

Water and moisture left on wet parts from pretreatment are driven off before coating (typically ~100–160 °C).

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FEEDING

Powder Enamel Injectors

Abrasive glass-frit powder is fed steadily to the guns through a wear-resistant flow path.

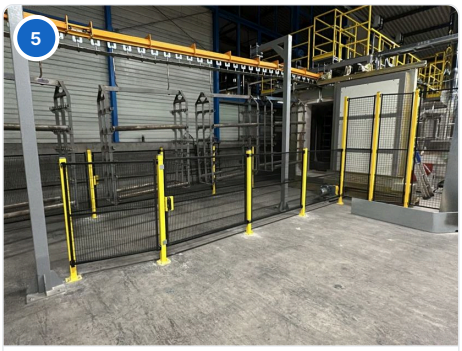


APPLICATION

Powder Enamel Booths

Enamel powder is applied in a booth built for the part, using OWL or automatic guns.

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FIRING

Powder Enamel Firing Ovens

The enamel powder melts at ~780–850 °C and fuses to the steel.

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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.