STRONG3000

TECHNICAL DATA SHEET

Product Data Sheet · Revision: November 2026

APPLICATION EQUIPMENT

Smart

Smart is a programmable control unit with a large recipe library, multi-gun coordination and data connectivity — one step below the fully adaptive Smart AI platform, built for high-volume, multi-color production.

Open online

strong3000.com/en/products/smart/



KEY FIGURES

Output voltage	Recipes	Variants	Interface
0 – 100 kV fine adjustment	**100 programs**	**Hopper / Multicolor / Powder Enamel**	**7" touchscreen**

OVERVIEW

Programmable, Repeatable, Scalable.

Smart combines the touchscreen ease of Elite Plus with a large recipe library, multi-gun synchronization and line integration. It delivers a consistent film build and fast color changes in production with high part variety.

It works in coordination with STRONG3000 guns, powder delivery, booths and automation — and can be upgraded to the adaptive control of Smart AI as needs grow.



KEY BENEFITS

Programmable Production Control.

Large Recipe Library

Quickly recalled settings for many parts and colors.

Multi-Gun Coordination

Synchronized application for consistent, high-volume coating.

Connectivity & Data

Ready for line integration and production monitoring.

Upgradeable to Smart AI

Move to the adaptive control platform as needs grow.

TECHNOLOGY

Smart Air Control Technology.

Smart Air Control is a technology for digital, recipe-based control of powder output air and assist (atomizing) air. Precise adjustment on the touchscreen replaces manual flowmeters and valves — delivering a repeatable powder cloud and consistent film thickness for every part and color.

- Digital control of powder output air (Powder Output) and assist air (Assist Air)
- Recipe-based, repeatable settings — recalled instantly on color/part change
- Consistent powder cloud and film thickness — less waste, higher transfer efficiency
- Synchronized control with kV / µA; balanced coating on angular and recessed geometries



CONTROL PANEL

The Smart Interface.

The numbered points on the panel and what each function does.



Panel Functions

1 kV Setting
Sets the electrostatic high voltage (kV); determines powder charging efficiency and coating penetration.

2 µA Setting
Sets the output current (µA); controls back ionization for a consistent film on the surface.

3 Main Air Setting
Sets the main (conveying) air flow that carries powder from the hopper to the gun.

4 Auxiliary Air Setting
Sets the auxiliary (shaping) air flow that forms the powder cloud.

5 **Recipe Page**
Save up to 50 recipes and recall them with a single touch. Store kV, µA and air settings as a recipe for each part type — consistent, repeatable production.

6 **Active Recipe**
Shows the recipe currently in use and its key parameter values.

7 **Fixed Memory — 1st Coat**
Ready-made base settings for the first coat, field-tested and optimized by STRONG3000. The right start with a single touch.

8 **Fixed Memory — 2nd Coat**
Ready-made base settings for the second coat, tested and validated by STRONG3000 — consistent hiding and film thickness.

9 **Fixed Memory — Corners / Recesses**
Ready-made base settings tested by STRONG3000 for demanding parts with corners, recesses and cavity geometry.

10 **Manual Setting**
Mode for adjusting all parameters freely by hand.

11 **Smart Panel**
STRONG3000 Smart color touchscreen control interface — the hub of every function.

CONFIGURATIONS

Smart, Configured to Your Production.

The Smart control unit is available in manual and automatic configurations — to suit your part, color and capacity requirements.

Manual Configurations



Manual · Powder Coating

Smart Multicolor
Multicolor powder feed for production with fast, frequent color changes.



Manual · Powder Coating

Smart Hopper
Manual application fed from an integrated powder hopper.



Manual · Powder Enamel

Smart Enamel
Dedicated manual configuration for powder enamel application.

Automatic Configurations



Automatic · Powder Coating

Smart Automatic Powder Coating

Powder coating unit for automatic lines — works with automatic guns.



Automatic · Powder Enamel

Smart Automatic Powder Enamel

Powder enamel unit for automatic lines — works with automatic guns.

MATERIAL

Durable Engineering Plastics.

Across all our manual series — Elite, Elite Plus, Smart and Smart AI — the carts, hopper and multicolor models are made of antistatic, easy-to-clean and durable engineering plastics.

Antistatic

Powder does not cling to or build up on the surface.

Easy to clean

Body and hopper are cleaned quickly at color change.

Durable

A body that withstands impacts and tough shop-floor conditions.

COMPATIBLE GUNS

A Gun for Every Job.

All guns work with Smart, Elite and Smart AI control units. Manual guns are not used on automatic units.

Manual Guns · 3 Types



Manual · Powder Coating

Manual Powder Coating Gun

Manual gun for standard powder coating applications.



Manual · Powder Enamel

Manual Powder Enamel Gun

Wear-resistant manual gun for vitreous/porcelain enamel.

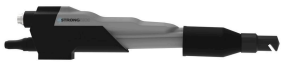


Manual · Laboratory

Manual Laboratory Gun

Laboratory-type gun for sample and R&D work.

Powder Coating Guns · 3 Lengths



Powder Coating · 40 cm

Short

Short reach for compact parts and tight spaces.



Powder Coating · 52 cm

Medium

General-purpose, the most widely used medium length.

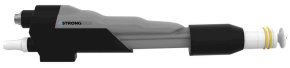


Powder Coating

Long

Long reach for deep and large parts.

Powder Enamel Guns · 2 Lengths



Powder Enamel

Short

Short reach for compact and cavity parts.



Powder Enamel

Long

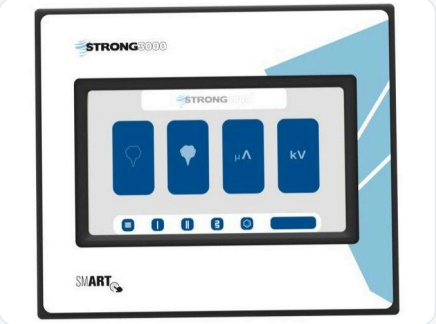
Long reach for deep and large parts.

GALLERY

Take a Closer Look.









TECHNICAL SPECIFICATIONS

Smart — Technical Specifications.

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

Output voltage	0 – 100 kV fine adjustment
Recipes	100 programs
Variants	Hopper / Multicolor / Powder Enamel
Interface	7" touchscreen
Communication	Line PLC / OKP integration

HOW IT WORKS

From Powder to Finished Part.

01

Feeding

Powder fed from hopper, box or powder center.

02

Electrostatic Charging

Precise 0–100 kV corona charging.

03

Smart Control

100 recipes on a 7" touchscreen; line PLC/OKP integration.

04

Application & Recovery

The part is coated; excess powder is recovered.

COMPATIBLE EQUIPMENT

Part of the STRONG3000 System.

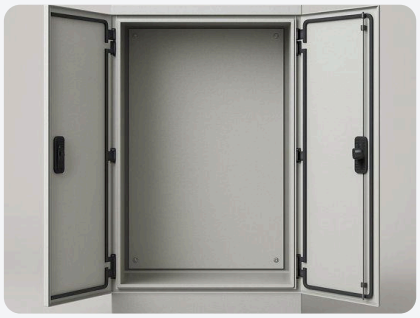
- ✓ **Venturi Injector** — precise powder feeding
- ✓ **PVC / Steel Monocyclone Booths** — application & recovery
- ✓ **Powder Center & Ultrasonic Sieve** — consistent powder quality
- ✓ **Reciprocators & Robotics** — automated motion
- ✓ **Curing & Firing Ovens** — line integration

APPLICATIONS

Where It Excels.

Series Production

Medium- to high-volume production



Explore →

Home Appliances

White goods & home appliances



Explore →

Aluminum

Aluminum profile lines



Explore →

Powder Enamel

Powder enamel applications



Explore →

CERTIFICATIONS

Built to Standards.

STRONG3000 Smart holds ATEX and CE documentation. You can download the documents below.

CE | ATEX II 3(2)D | IEP 23 ATEX 1257X | EN 50050-2 | EN 50177



ATEX — Controller

IEP 23 ATEX 1257-X · PDF · 2.7 MB

Download



ATEX — Hand-held Gun

IEP 23 ATEX 1256-X · PDF · 3.5 MB

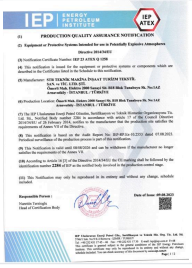
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CE — Device & Gun

2023PTC3602 · PDF · 1.2 MB

Download



ATEX — Production Quality Assurance

IEP 23 ATEX Q1258 · PDF · 2.2 MB

Download

COMPARISON

Control Unit Comparison.

Feature comparison of the Elite, Elite Plus, Smart and Smart AI control units.

Elite

- ✓ Standard Air Regulator with Pressure Gauge
- ✓ Current and voltage independently adjustable
- ✓ 100 kV & 120 µA ATEX safety limit
- ✓ 1 product recipe memory
- ✓ LED indicator panel
- ✗ Language support
- ✗ Modbus & RS485 communication
- ✗ Gun-mounted control button
- ✗ Wi-Fi & remote software updates
- ✗ OWL & AI integration
- ✗ Spare part lifetime notifications

Elite Plus

- ✓ Precision Digital Air Regulator
- ✓ Current and voltage independently adjustable
- ✓ 100 kV & 120 µA ATEX safety limit
- ✓ 10 product recipe memory
- ✓ 7-inch impact- and static-resistant display
- ✗ Language support
- ✗ Modbus & RS485 communication
- ✓ Gun-mounted control button
- ✓ Wi-Fi & remote software updates
- ✗ OWL & AI integration
- ✗ Spare part lifetime notifications

THIS PRODUCT

Smart

- ✓ Precision Digital Air Regulator
- ✓ Current and voltage independently adjustable
- ✓ 100 kV & 120 µA ATEX safety limit
- ✓ 10 product recipe memory
- ✓ 7-inch impact- and static-resistant display
- ✓ Language support
- ✓ Modbus & RS485 communication
- ✗ Gun-mounted control button
- ✗ Wi-Fi & remote software updates
- ✗ OWL & AI integration
- ✗ Spare part lifetime notifications

Smart AI

- ✓ Precision Digital Air Regulator with Flow Control Sensor
- ✓ Current and voltage independently adjustable
- ✓ 100 kV & 120 µA ATEX safety limit
- ✓ 60 product recipe memory
- ✓ 7-inch impact/static-resistant display with protective cover
- ✓ 12-language support (English, Russian, Chinese...)
- ✓ Modbus & RS485 communication
- ✓ Gun-mounted control button
- ✓ Wi-Fi & remote software updates
- ✓ OWL & AI integration
- ✓ Spare part lifetime notifications

FAQ

Frequently Asked Questions.

Is there a powder enamel version?

Yes. The Smart Powder Enamel configuration comes with an abrasion-resistant set.

How do I get a quote?

Fill in the Request a Quote form; we'll configure it for your application.

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.