STRONG3000

TECHNICAL DATA SHEET

Product Data Sheet · Revision: November 2026

APPLICATION EQUIPMENT

Smart AI

AI support for powder coating settings. Enter the part's geometry, material, powder type and working conditions; Smart AI suggests a ready setting for gun distance, head group, kV, µA and air, and the screen keeps track of the values throughout production.

Open online

strong3000.com/en/products/smart-ai/



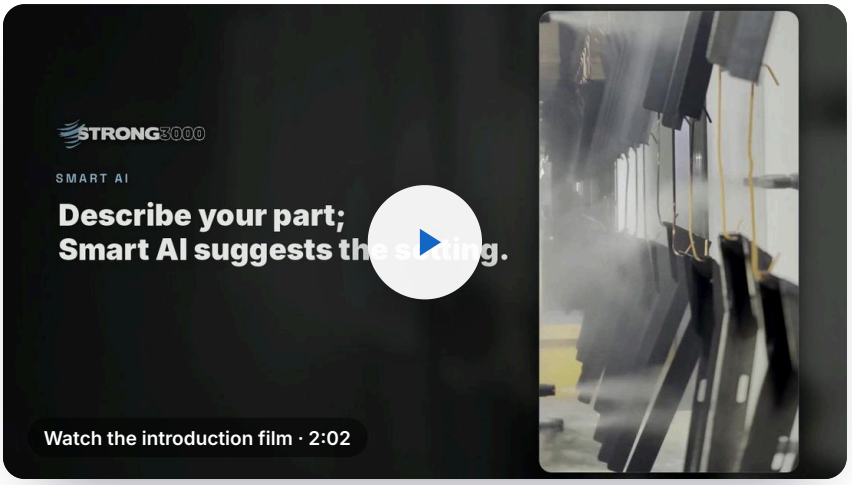
KEY FIGURES

Display	Supply Voltage	Power	Current Range
Color touchscreen interface	**110–240 V AC · 50–60 Hz**	**25 W**	**0–120 µA (Corona) · 0–5 µA (Tribo)**

INTRODUCTION FILM

Meet Smart AI in 2 Minutes.

The world's first powder coating unit with integrated AI. In manual application it supports the operator and teaches the right setting; in automatic systems it delivers major efficiency gains, and it is the only unit that integrates with OWL.



01 DESCRIBE THE PART

First, Describe Your Part.

Smart AI is started from the unit's screen. In a few steps you describe your part and working conditions; the system works out the setting.

1 Geometry and size
The basic part geometry and size are chosen from flat, small, perforated / wire, profile, deep and round parts.

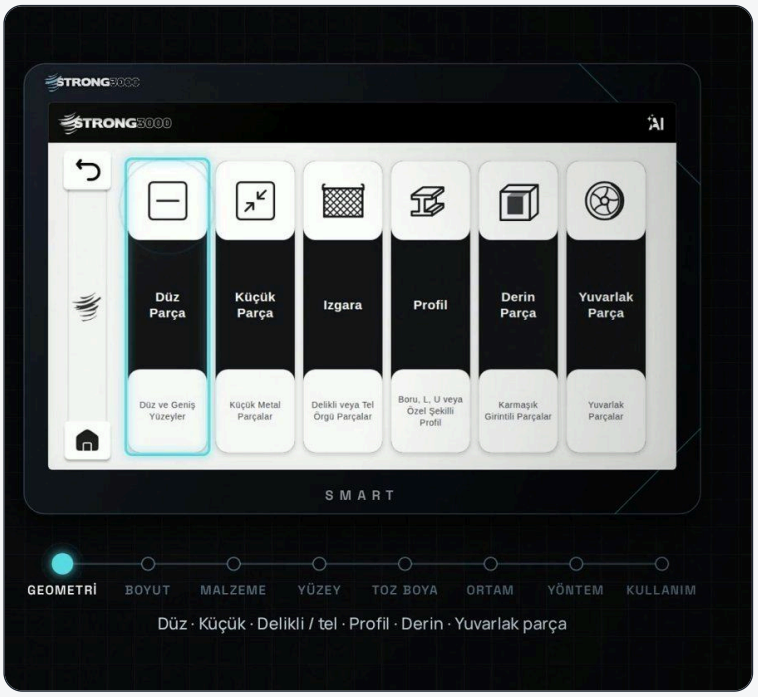
2 Material
Steel, aluminium, cast iron, stainless steel and galvanized.

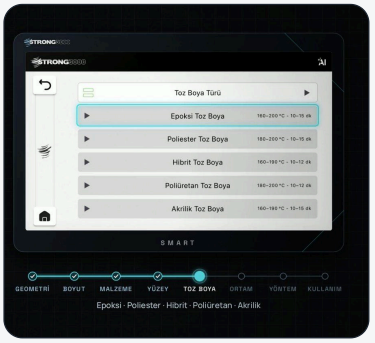
3 Surface preparation
How the part's surface was prepared is chosen from 7 methods.

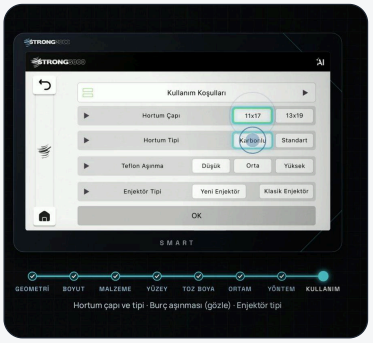
4 Powder type
Epoxy, polyester, hybrid, polyurethane and acrylic.

5 Environment
Ambient and part temperature, humidity, indoor or outdoor.

6 Application conditions
Hose diameter and type, sleeve wear (visual check) and injector type are also taken into account.



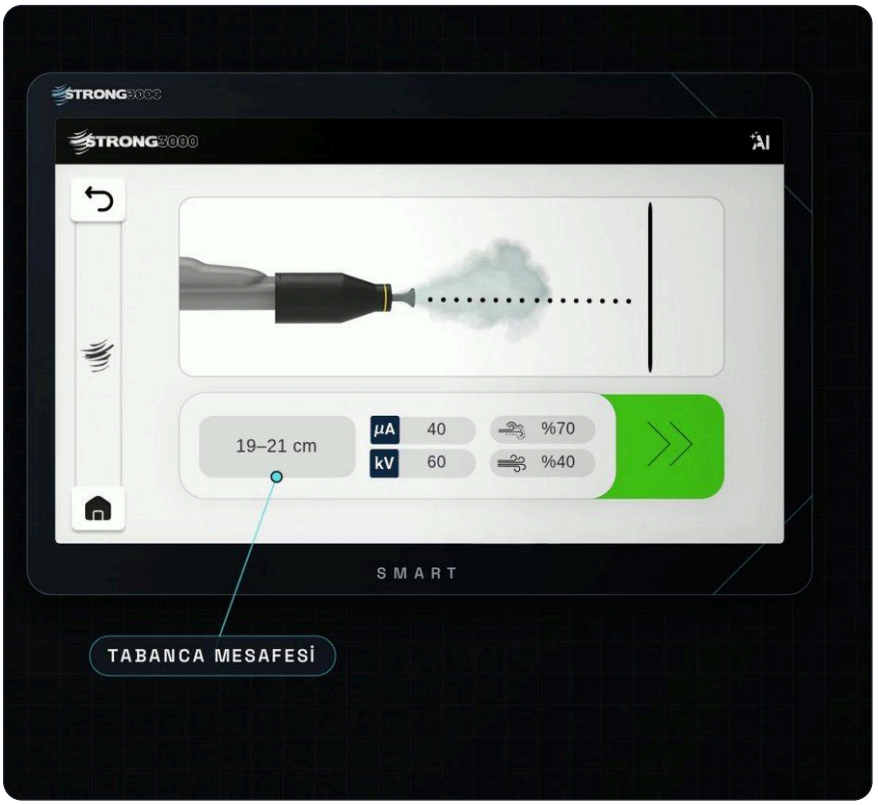




02 READY SETTING

Let Smart AI Suggest the Setting.

Based on your inputs, Smart AI offers a ready setting: gun distance, head group, kV, µA and air. The values are sent to the unit with a single touch.



Distance
Gun to part

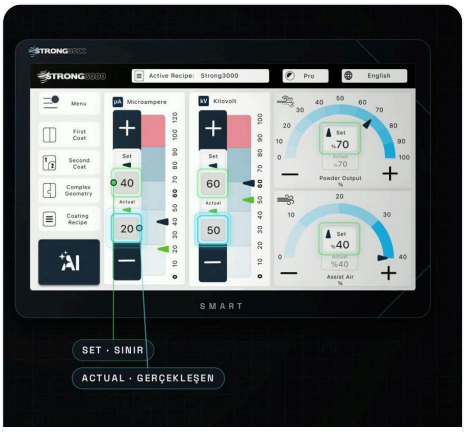
Head group
Deflector / nozzle

kV
Voltage

µA
Current

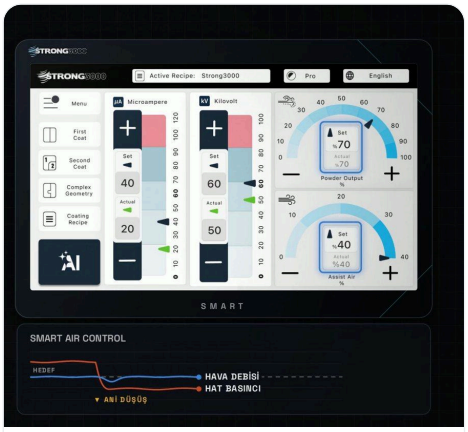
Air
Main and assist

Once applied, the screen shows whether the values are actually being delivered throughout production.



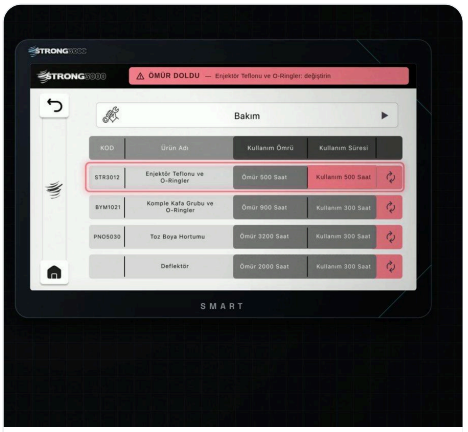
Set and Actual

Set, on top, is the limit value; Actual, below, shows the kV and µA actually delivered.



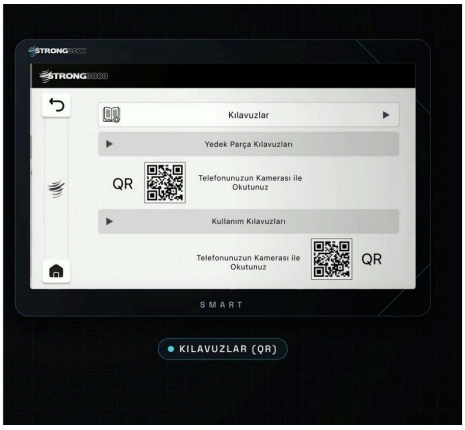
Smart air control

Main and assist air are controlled by separate valves and sensors. Even if compressor pressure drops, the valves open; air flow stays constant and Actual stays at Set.



Maintenance tracking

Usage time of wear parts is tracked against their service life. When a part reaches end of life, the screen prompts a replacement.



QR-coded manuals

The screen has QR-coded manuals and a connection menu; spare parts and user manuals open with a phone camera.

03 SELF-IMPROVING SYSTEM

Better With Every Use.

Smart AI improves itself with feedback from its users.

1 **Feedback**

Smart AI users report the results they get with the suggested settings.

2 **Data center**

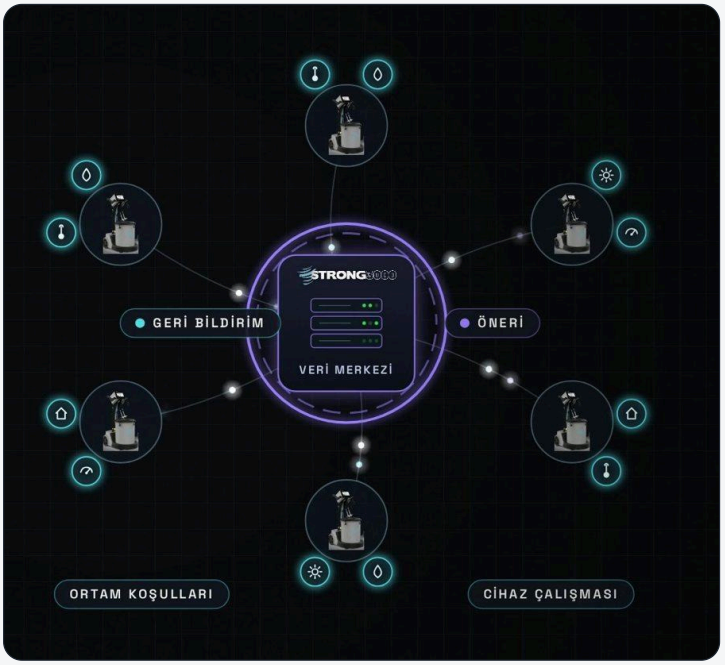
The data is collected and processed in the STRONG3000 data center.

3 **Environment and device**

Which results are achieved in which conditions, and how the units operate, is monitored.

4 **Better suggestions**

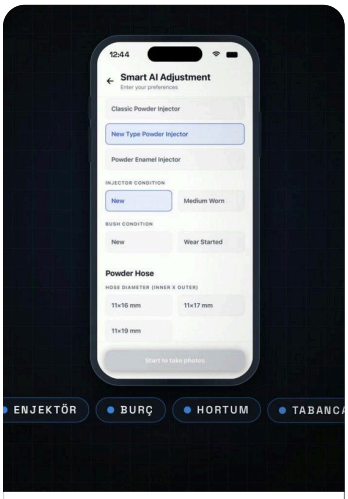
The collected experience feeds into future setting suggestions.



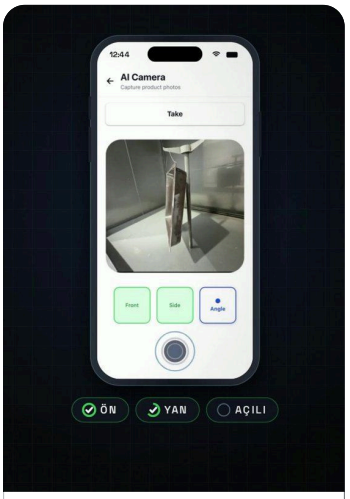
04 MOBILE APP

Smart AI in Your Pocket, Too.

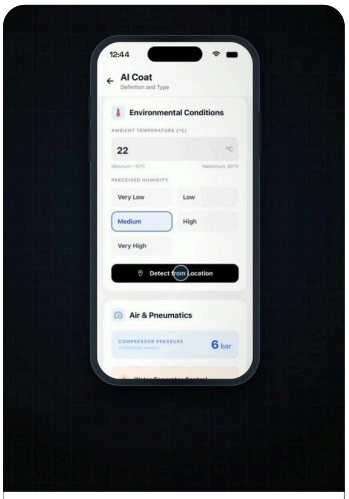
Smart AI is also in the STRONG3000 mobile app. Photograph the part, let the conditions be added automatically and get the suggested setting.



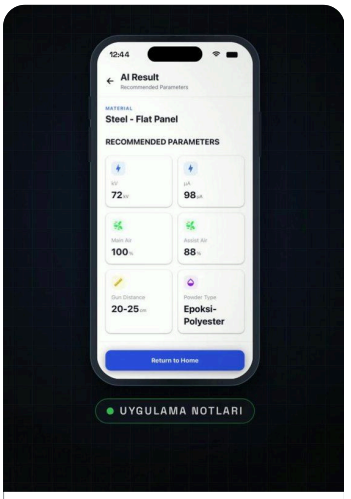
1 Injector, sleeve, hose and gun details are entered.



2 Front, side and angled photos of the part are taken; options are suggested from the photos.



3 Weather data is taken automatically from your location.



4 Result: recommended parameters and application notes.

CONFIGURATIONS

Choose Your Setup.



Smart AI — Powder Coating (Hopper)

With a fluidized powder hopper; for long runs in one color.



Smart AI — Powder Coating (Multicolor)

Draws powder straight from the box; for shops that change color often.



Smart AI + OWL

The only unit that integrates with OWL; intelligent motion and ready settings together on complex geometries.



Smart AI — Powder Enamel

Configured for vitreous / porcelain powder enamel application.

AUTOMATIC CONTROL

Control Automatic Guns Too.

Smart AI's intelligent control extends to automatic lines too. STRONG3000 **automatic control cabinets** manage many automatic guns from a single point, and the voltage (kV) and current (µA) of each gun can be adjusted **independently**.

It integrates with reciprocator and robot lines, enabling repeatable, operator-independent series production with recipes.

Discover the Automatic Powder Coating Gun →



TECHNICAL SPECIFICATIONS

Smart AI — Technical Specifications.

Display	Color touchscreen interface
Supply Voltage	110–240 V AC · 50–60 Hz
Power	25 W
Current Range	0–120 µA (Corona) · 0–5 µA (Tribo)
Powder Output	0–27 kg/h
Inlet Air Pressure	6–8 bar
Air Consumption	7 Nm^3/h
Air Inlet Hose	Ø8 mm
Contact	Industry 4.0 connectivity
Operating Temperature	5 – 40 °C
Protection Class	IP 64
ATEX Marking	⟨Ex⟩ II 3(2)D 85 °C
Certifications	ATEX IEP 23 1257X · EN 50050-2 / EN 50177

GALLERY

Take a Closer Look.









CERTIFICATIONS

Built to Standards.

STRONG3000 Smart AI 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

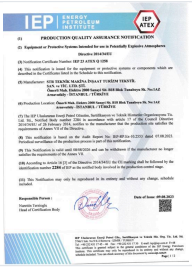
Download



CE — Device & Gun

2023PTC3602 · PDF · 1.2 MB

Download



ATEX — Production Quality Assurance

IEP 23 ATEX Q1258 · PDF · 2.2 MB

Download

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.

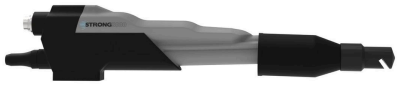


Manual · Laboratory

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.

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

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

THIS PRODUCT

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.

Can Smart AI integrate with existing STRONG3000 equipment?

Yes. Smart AI works as part of a coordinated line with STRONG3000 automatic guns, reciprocators, booths and recovery systems.

How do I get technical specifications and pricing?

Because Smart AI is configured to each application, specifications and pricing are provided on request. Submit a project request and a STRONG3000 engineer will respond with a tailored recommendation.

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.

Production Center	Ömerli Mah. Elektro 2000 Sanayi Sitesi B18 Blok, Tunaboyu Sk. No:1AZ, 34555 Arnavutköy / Istanbul, Türkiye
Phone	+90 212 438 56 94 · +90 534 037 98 10
E-mail	info@strong3000.com
24/7 WhatsApp	+90 537 353 54 19
Web	strong3000.com/en/products/smart-ai/

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.