POWDER COATING · MANUAL & AUTOMATIC

Smart AI

Application Equipment · AI-Assisted Control Unit

Describe your part; let Smart AI suggest the setting. 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.

Product Images



STRONG3000 — Smart AI hopper and multicolor units

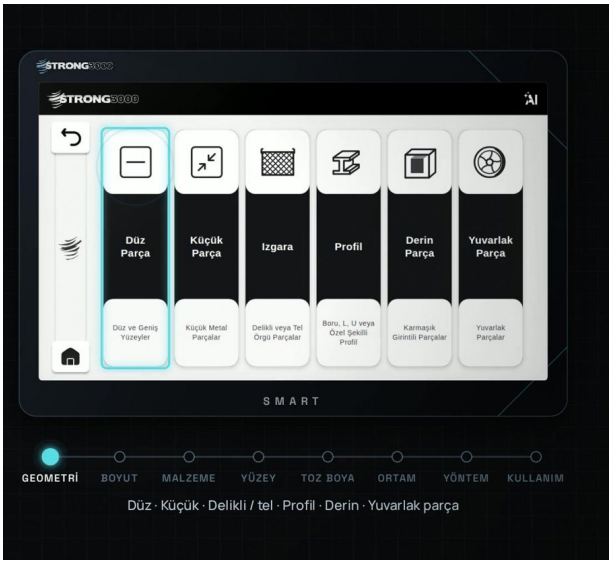
This datasheet is general engineering guidance; final parameters are defined per project by part, substrate and capacity.

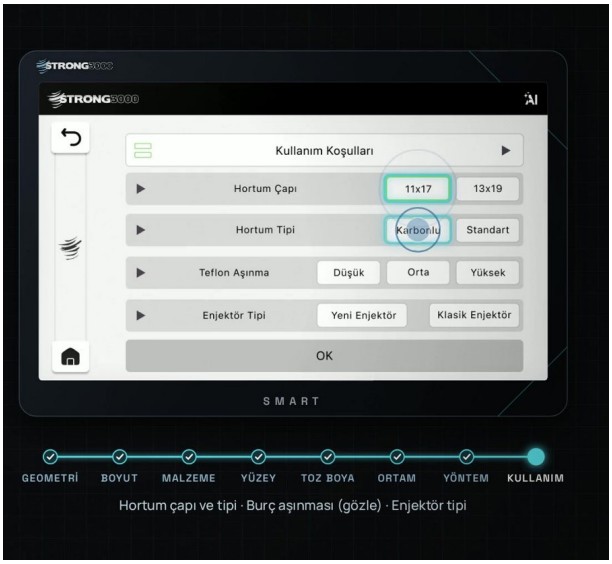
01 — DESCRIBE THE PART

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.



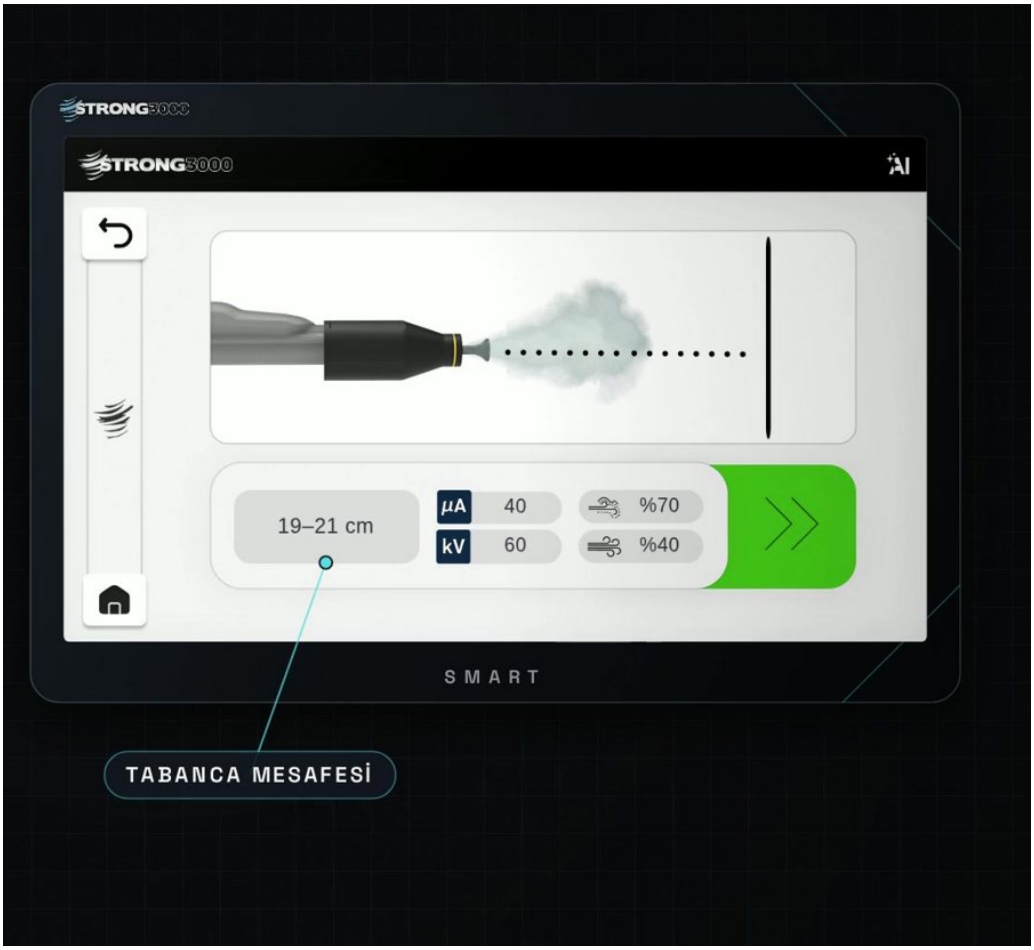


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02 — READY SETTING

Let Smart AI Suggest the Setting

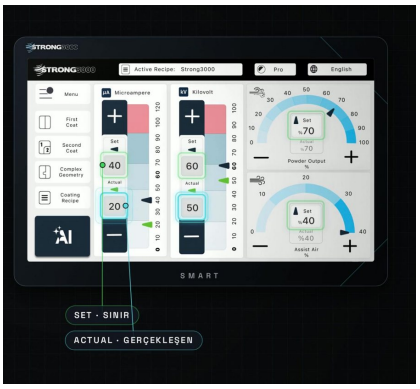
Based on your inputs, Smart AI offers a ready setting: gun distance, head group, kV, µA and air. The values are sent to the unit with a single touch.



Distance	Head group	kV	µA	Air
Gun to part	Deflector / nozzle	Voltage	Current	Main and assist

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What the Screen Shows



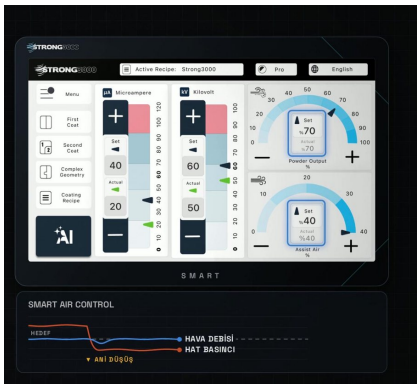
Set and Actual

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



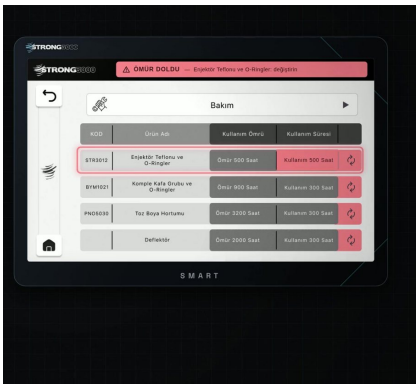
Correct distance warning

If the gun is not held steady at the right distance, kV and µA drop and the screen gives a warning.



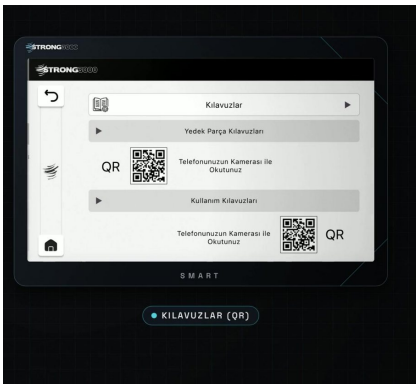
Smart air control

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.

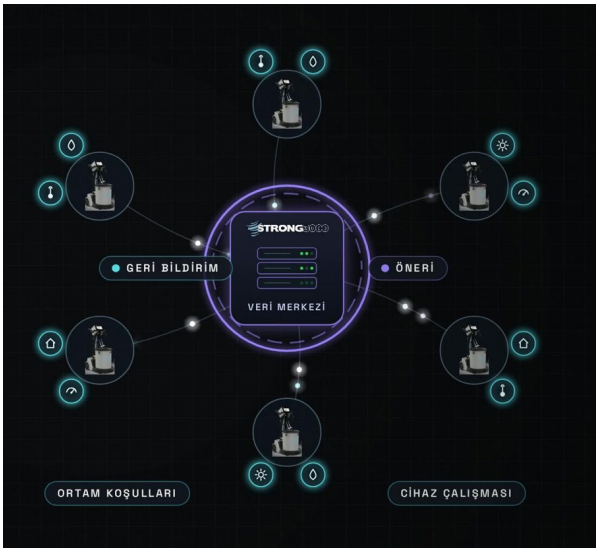
One-touch transfer. Suggested values are sent to the unit with a single touch; the screen shows throughout production whether they are actually delivered.

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03 — SELF-IMPROVING SYSTEM

Better With Every Use

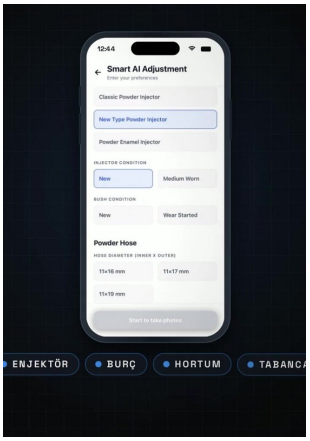
1. **Feedback**
   Smart AI users report the results they get with the suggested settings.
2. **Data center**
   The data is collected and processed in the STRONG3000 data center.
3. **Environment and device**
   Which results are achieved in which conditions, and how the units operate, is monitored.
4. **Better suggestions**
   The collected experience feeds into future setting suggestions.



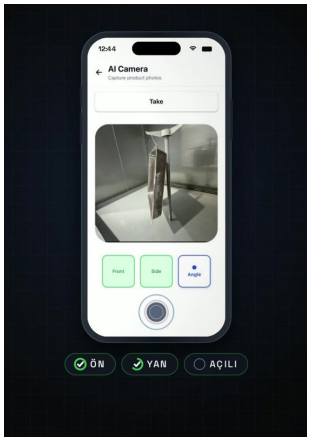
04 — MOBILE APP

Smart AI in Your Pocket, Too

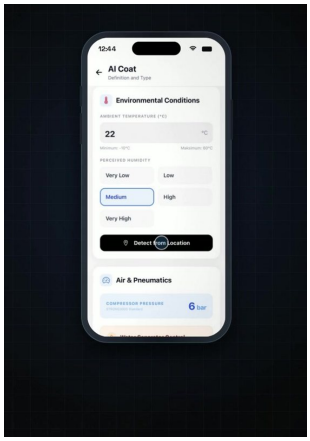
Smart AI is also in the STRONG3000 mobile app. Photograph the part, let the conditions be added automatically and get the suggested setting.



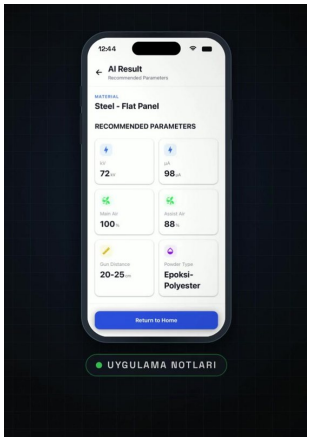
1 Injector, sleeve, hose and gun details are entered.



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



3 Weather data is taken automatically from your location.



4 Result: recommended parameters and application notes.

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Configurations



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.

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: powder does not cling or build up, the body and hopper clean quickly at color change, and the body withstands impacts and tough shop-floor conditions.

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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 Nm³/h
Air Inlet Hose	Ø8 mm
Communication	Industry 4.0 connectivity
Operating Temperature	5 – 40 °C
Protection Class	IP 64
ATEX Marking	Ex II 3(2)D 85 °C
Certificates	ATEX IEP 23 1257X · EN 50050-2 / EN 50177
Artificial intelligence	Setting suggestions on the unit and in the STRONG3000 mobile app
OWL integration	Yes — the only unit that integrates with OWL

Applications

- White goods & home appliances
- Metal furniture & sheet metal
- Aluminium profiles & facades
- Automotive parts & wheels
- Electrical enclosures
- High-mix production

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Compatible Guns

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



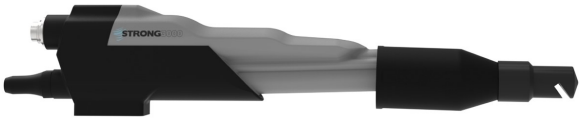
Manual Powder Coating Gun
For standard powder coating applications.



Manual Powder Enamel Gun
Wear-resistant, for vitreous/porcelain enamel.



Manual Laboratory Gun
For samples and R&D work.



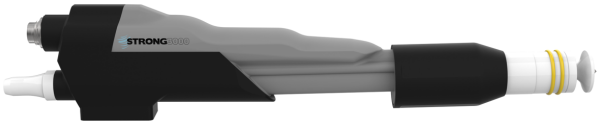
Automatic Powder · Short (40 cm)
Compact parts and tight spaces.



Automatic Powder · Medium (52 cm)
General purpose, the most common length.



Automatic Powder · Long
Reach into deep and large parts.



Automatic Powder Enamel · Short
Compact and cavity parts.



Automatic Powder Enamel · Long
Reach into deep and large parts.

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