



**Automation in
Vertical Powder Coating**

Introduction

Take a look at
VISICOAT
in action!



SAT Introduces one of the most important innovations in the control of the aluminium profile coating process with the introduction of AI. The unique Vision Recognition System developed specifically for vertical coating lines!

Thanks to a close collaboration between SAT and GEMA, **VISICOAT is able to recognize the cross section of the profiles, and conduct the coating process autonomously through our sophisticated AI solution.**

Thanks to its self-learning capabilities and integration with GEMA's powder application equipment, the coating process, even for a mixed selection of profiles, VISICOAT ensures excellent productivity, powder savings and process repeatability.

VISICOAT eliminates the need for human intervention, reduces risk, avoiding mistakes, and provides an excellent solution for automated error free coating program selection.

Let's make a step towards the future together!



READY...

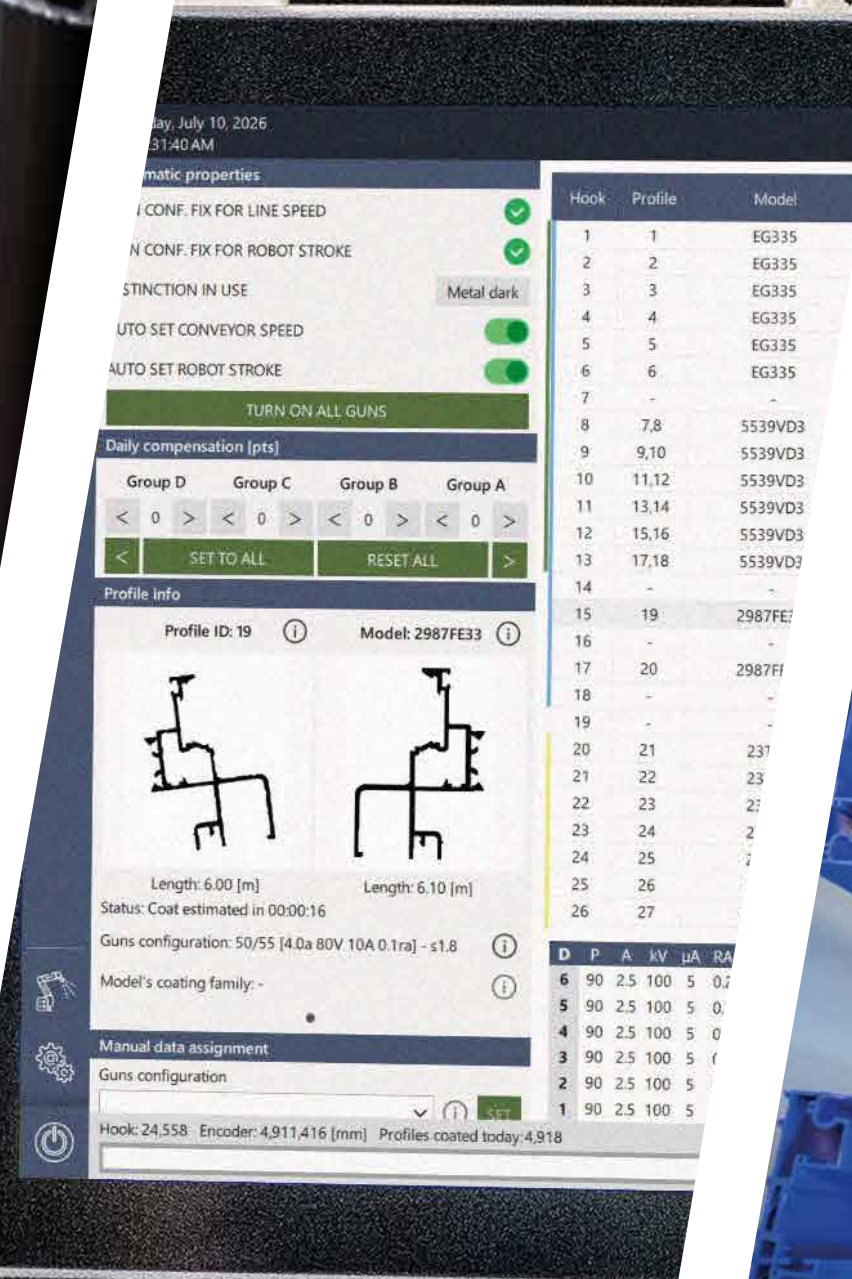
SELF RECOGNITION OF EACH PROFILE LOADED

...SET...

AUTOMATED SELECTION OF COATING PARAMETERS

...COAT!

AUTONOMOUS MANAGEMENT OF BOOTH PARAMETERS





VISICOAT
Advantages

**SIMPLICITY &
BETTER WORKING CONDITIONS**

PRODUCTIVITY & SAVINGS

**REPEATABILITY – QUALITY –
TRACEABILITY**



Advantages: **SIMPLICITY & BETTER WORKING CONDITIONS**

NO NEED OF EXPERT PAINTERS:

self recognition of the profiles and self
setting of the coating parameters

NO METICULOUS SCHEDULING OF THE PRODUCTION

(you can easily modify the production
plan adding a last minute batch)

SIMPLICITY

FULLY INTEGRATED with **SAT** coating booth and
GEMA Electrostatic equipment

NO STRESS:

anticipation and self-selection of the
coating setting just after loading

MORE COMFORTABLE:

reduced demands on plant operators,
no request of high concentration or
visual control of the booth

BETTER WORKING CONDITIONS

ANTICIPATION OF ALL COATING'S PARALLEL ACTIVITIES

(indication in advance of quantity of powder boxes required to
support the coating process)





Advantages:

PRODUCTIVITY & SAVINGS

GAPS ON THE LINE AVOIDED

(usually left for manual setting of the guns)

SELF SETTING OF THE LINE SPEED

(for best coating quality according to profile shape)

PRODUCTIVITY

SELF SETTING OF A LINE'S CRUISE SPEED

(when empty)

SELF ACTIVATION OF THE GUNS

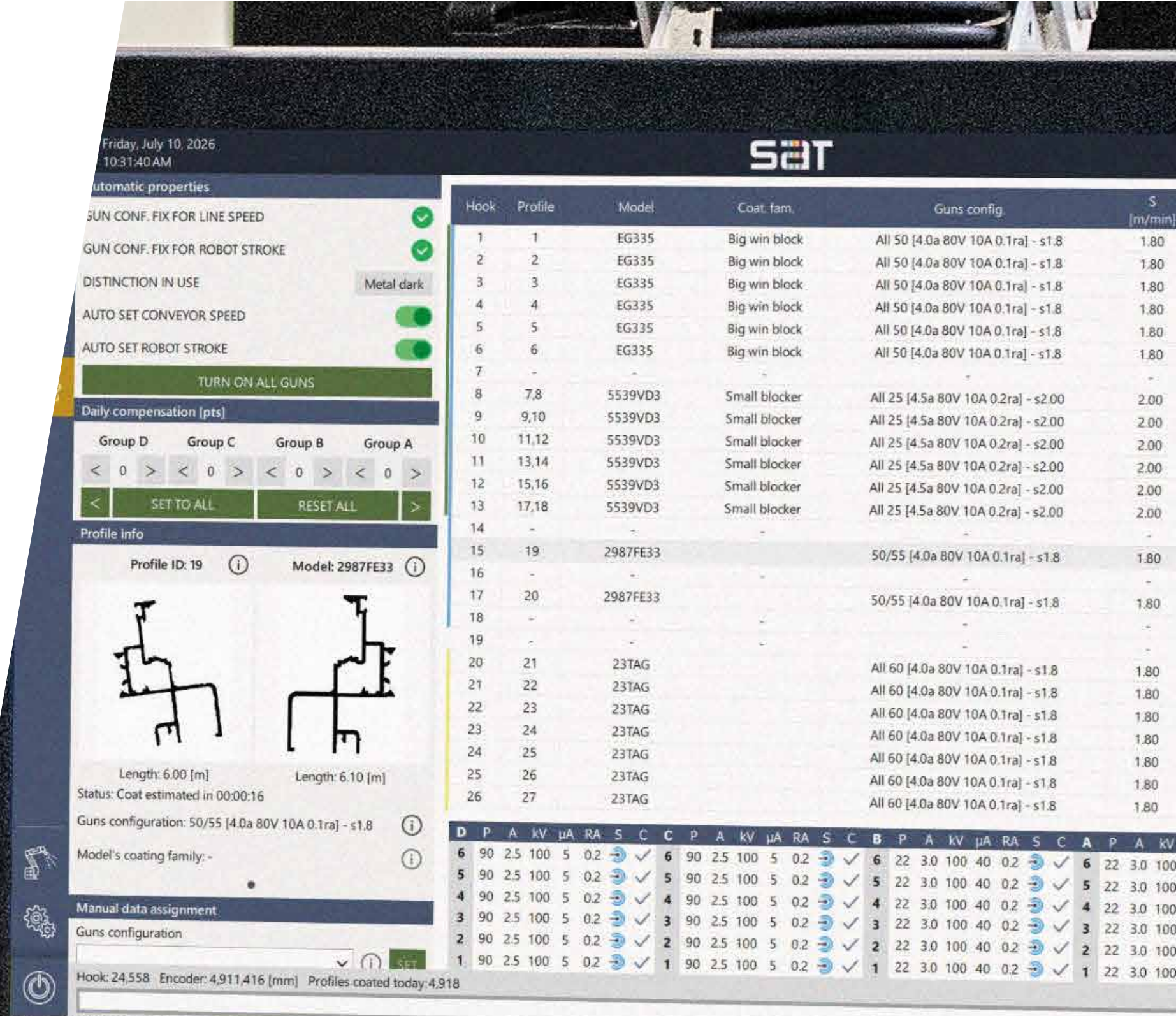
(only when the profile is detected)

SELF SETTING OF THE RECIPROCATOR STROKE ACCORDING TO PROFILE LENGTH

SAVINGS

CONTINUOUS SELF ADJUSTMENT AND OPTIMISATION OF THE COATING PARAMETERS

(managing mix of profiles inside the batch)





Advantages: **REPEATABILITY – QUALITY - TRACEABILITY**

**ALWAYS SELF
SELECTION**
of the most appropriate
COATING RECIPE

RECIPE DEFINED
for one single profile shape
or by coating family

REPEATABILITY

ALWAYS CORRECT COATING RECIPE ALLOCATED
(regardless the coater in the booth)

QUALITY

**REALISTIC
REPRESENTATION**
of how the line is loaded

**WORKS AS
A DATABASE**
storing coating parameters for every single
profile (IMPROVED QUALITY CONTROL)

TRACEABILITY





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