

## Tecnar HUB features:

### Visualization and data analytics

The Tecnar HUB enables powerful process visualization through an intuitive, user-friendly interface. Quickly compare performance between booths, benchmark recipes, analyze long-term process drift, explore parameter interactions, and uncover trends that may impact coating quality and repeatability.

### Automatic process window evaluator

Effortless and fully automated, the Process Window Evaluator (PWE), included in the Tecnar HUB, continuously accumulates spray run data and uses an unsupervised Principal Component Analysis (PCA) algorithm to build a model that captures variations in spray conditions.

This eliminates the need for manual parametric studies to determine suitable process windows—procedures that require production downtime and are inherently operator-dependent.

With the combined power of Tecnar sensors and the Tecnar HUB, your process is continuously characterized. The system automatically defines process windows once sufficient data is collected and ensures that every coated part meets the correct spray conditions.

# earlier insight changes everything

tecnar HUB

Intelligent platform for **process control**

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Learn more about the Tecnar HUB



"We were introduced to the Tecnar Hub concept and immediately saw the potential. We quickly decided to come on board, and the impact on our business has been significant."

Since implementing the Tecnar Hub, we have substantially reduced our coupon usage, resulting in measurable cost savings and improved operational efficiency. At the same time, our customers have been impressed with our ability to leverage data to optimize their coating processes and maximize performance."

**Michael Lanoue, Ing. Technical Director**  
Tekalia Aeronautik

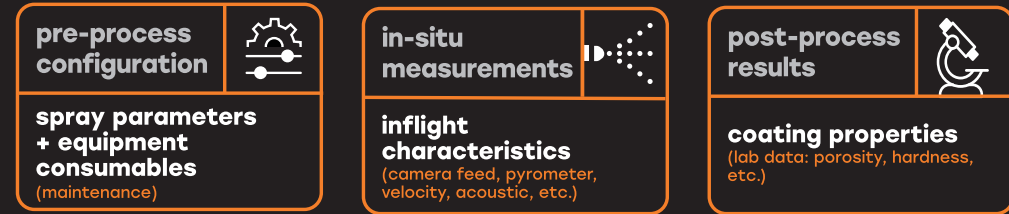
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Our insight. Your productivity.

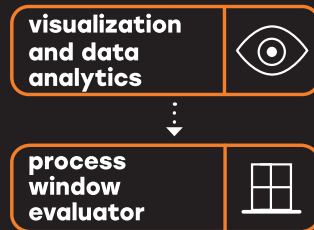
ON-PREMISE  
SOLUTION

# Transform data into actionable process intelligence

The more you use Accuraspray, the more powerful your process intelligence becomes. The Tecnar HUB is a centralized digital platform that connects multiple sensors, consolidates data, and delivers insights for process optimization, Go/No-go criteria, and quality assurance. The HUB turns high volumes of daily production data into actionable insights.



## tecnar HUB



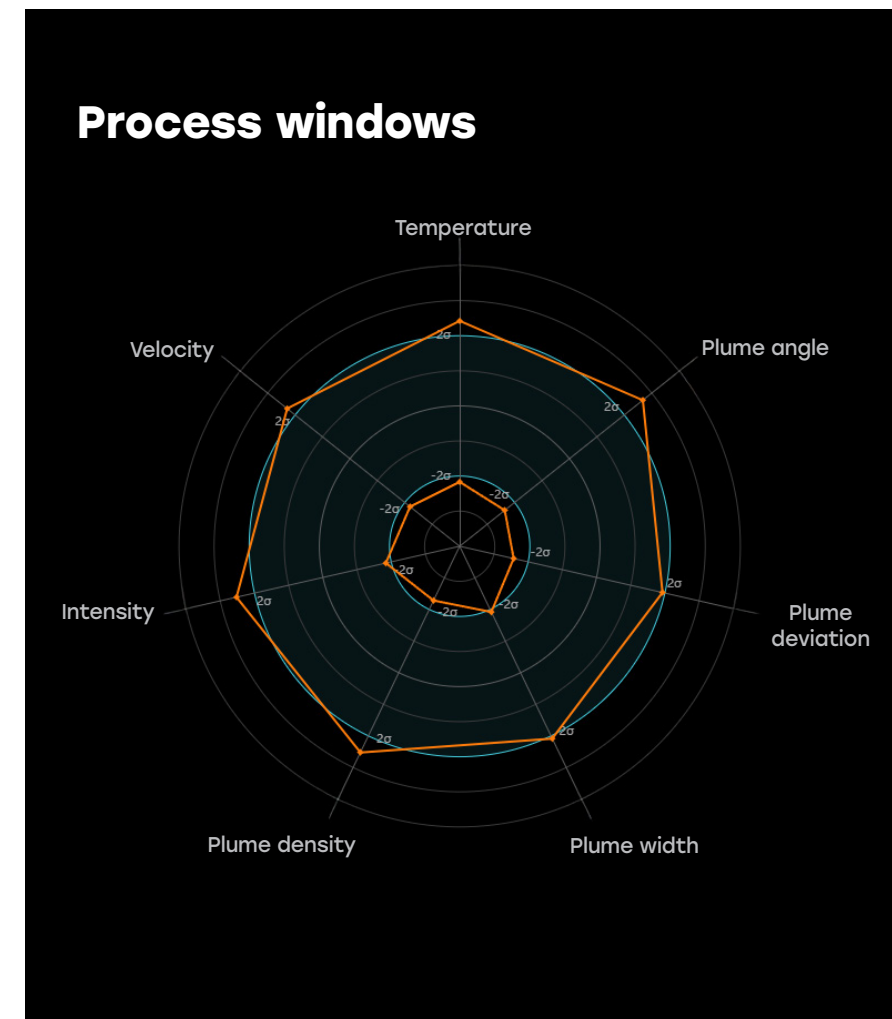
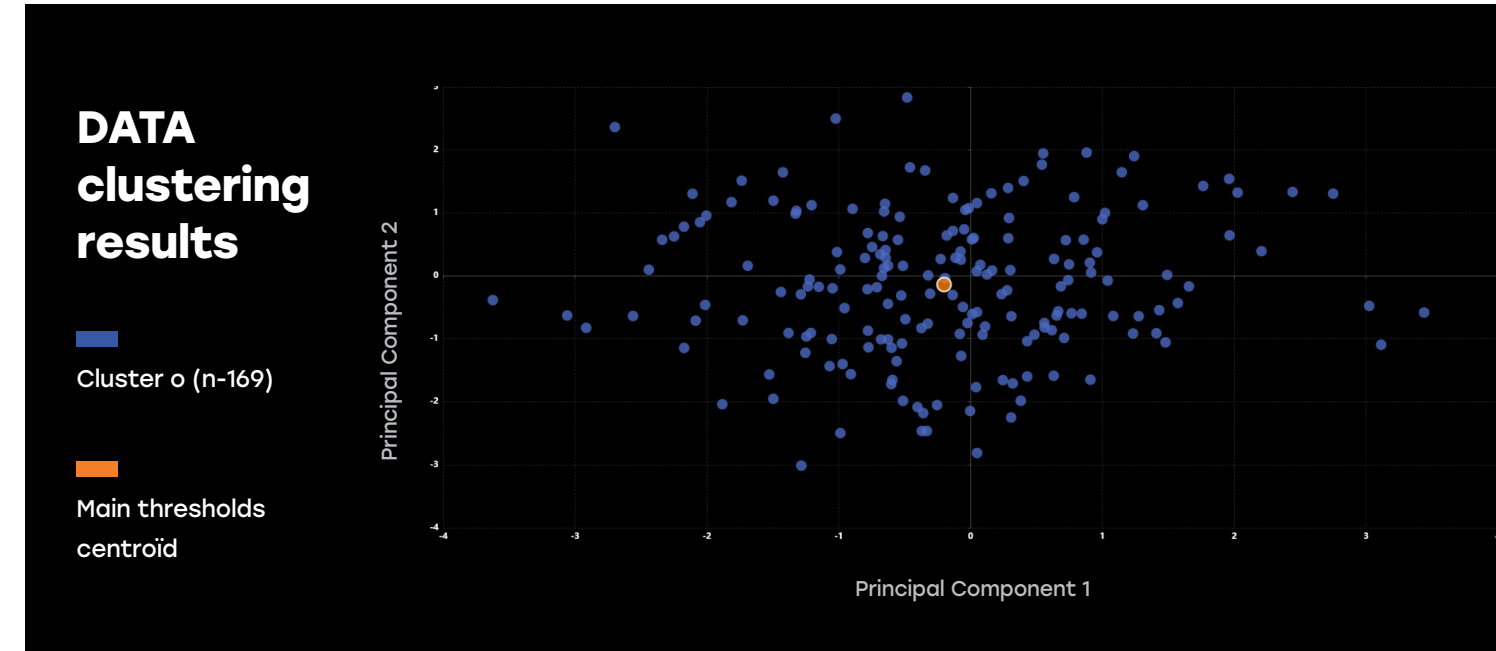
## Work with the industry leader

Tecnar is a global leader in delivering cutting-edge spray sensors to the shop floor. With over 1,000 sensor heads in operation daily across more than 25 countries, we are committed to driving innovation in the industry. Tecnar is investing in advanced digital innovation with our multidisciplinary team of data scientists and machine learning engineers. We are working together to develop analytical models that turn raw diagnostics into actionable insights.

## Why use our Tecnar HUB?

- Define and refine data-based process windows
- Reduce operational cost
- Maintain equipment proactively
- Root cause analysis and troubleshooting
- Compare multiple booths effortlessly
- Track performance over time

# Process Window Evaluator – a tecnar HUB feature



## Stop guessing with 2-sigma boxes. Control the spray where it actually lives.

The Process Window Evaluator (PWE) will learn automatically and define your process window on its own.

What the industry has been asking for decades is now ready!

## What it does

Tecnar HUB now includes the Process Window Evaluator—an automated, unsupervised tool that learns your spray signature across many runs. It builds a PCA learning curve, keeps the minimum number of components needed to explain 95% of overall variation, then uses a clustering algorithm to isolate the stable operating core. Those cluster boundaries are converted back into actionable limits on each Accuraspray reading. Compared with simple  $\pm 2\sigma$  windows, it respects correlations, handles non-normal behavior, and detects drift sooner.

## Technical specifications

### Deployment architecture

Hosting type	On-premise / locally hosted
Installation	Dedicated industrial PC or customer-provided server
Network configuration	Local Area Network (LAN)
Data storage	Local secure database
Remote access	Optional (customer-controlled via VPN)
Multi-sensor support	Yes (configurable per system)

### System Requirements

CPU (vCPUs)	4
RAM	8GB
Storage	120GB SSD
Network	1 Gbps NIC

### On-going Support

Upgrades	Periodic upgrades with new features
Subscription	Annual renewal
Training	Onboarding and on-going technical support

## Build your intellectual property on what really matters

- Consistent quality
- Actionable thresholds
- Fully unsupervised
- Reduced scrap
- Scalable monitoring
- Proactive alerts
- Real-time drift detection