



PHYSICAL AI FOR A SMARTER INDUSTRY

AI-Powered Coating Intelligence

From Formulation to Production. From Data to Predictive Quality.

NuSense™ and NuCoating™ turn coating processes into intelligent, continuously monitored manufacturing operations — improving quality, reducing waste and accelerating innovation.



SENSE.
UNDERSTAND.
PREDICT.
OPTIMIZE.



NuSense™

Multi-Sensor Fusion

Integrates data from optical, thermal, vision, NIR, environmental and machine signals for a complete process view.

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NuCoating™

AI-Based Coating Intelligence

From formulation to inline inspection, process optimization and predictive quality.

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NumBox II™

NPU-Powered Edge AI

Real-time AI inference at the production line with low latency, high reliability and secure operation.

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Numondium AI™

Industrial AI Platform

Enterprise analytics, digital coating fingerprints, AI agents and continuous learning across R&D and production.



Multi-Sensor Coating Intelligence

NuSense™ integrates multiple sensing technologies

-  **Coating Thickness**
(Non-contact Optical)
-  **Visual Inspection**
(RGB / 3D Vision)
-  **NIR Spectroscopy**
(Material & Chemical Insights)
-  **Thermal Sensing**
(Curing & Temperature)
-  **Environmental Sensors**
(Temperature, Humidity, etc.)
-  **Process Signals**
(PLC, Line Speed, Equipment)

AI Across the Coating Lifecycle

-  **Formulation Development**
AI-assisted material and formulation insights
-  **Application**
Process parameter optimization
-  **Curing**
Thermal analysis and process intelligence
-  **Inline Inspection**
Thickness, vision, spectral and multi-sensor AI
-  **Predictive Quality**
Early detection of process drift
-  **Continuous Learning**
R&D to production feedback loop

Higher Quality
Lower Scrap
More Consistent
Smarter Manufacturing

Digital Coating Fingerprint

Every product. A complete data profile.



- Product ID
- Coating Measurements
- Spectral Data
- Thermal Signature
- Visual Inspection
- Process Parameters
- Environmental Conditions
- AI Quality Score

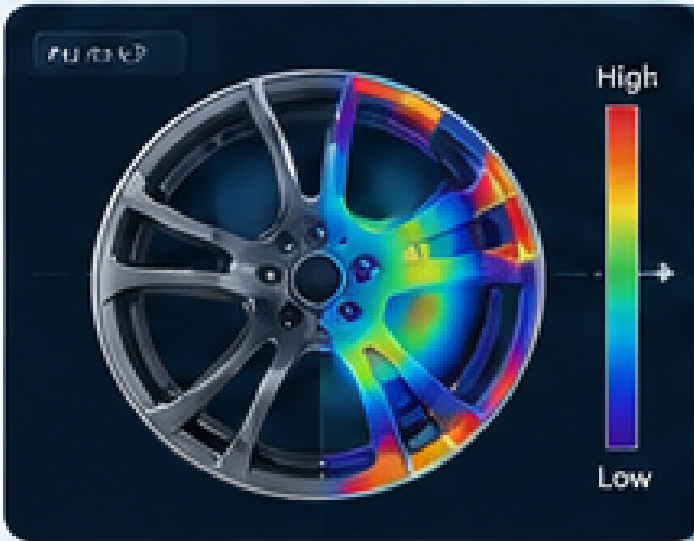
Coating ID: WHL-45872



- ✓ Thickness OK
- ✓ Surface OK
- ✓ Material OK
- ✓ Curing OK
- ✓ Overall AI Quality OK

AI Insights in Real Time

Detect issues before defects are produced.



Coating Thickness (μm)

In Spec



Process Trend



Early Drift Detected
Check Spray Pressure

Results That Matter



Reduced scrap and rework



More consistent coating quality



Improved material utilization



Faster root-cause analysis



Data-driven process optimization



Full traceability at product level



Better Coatings
A More Sustainable
Tomorrow



QUALITY TODAY.
A CLEANER TOMORROW.