

VON ARDENNE 

VA INDIGO DIGITALE LÖSUNGEN FÜR IHR BUSINESS

VA INDIGO

**DIGITALE LÖSUNGEN
FÜR IHR BUSINESS**

Digitalisieren Sie Ihre Abläufe
mit digitalen Services & Produkten
auf dem Weg zur Smarten Fertigung

DIGITALISIEREN SIE IHRE ABLÄUFE

MIT DIGITALEN SERVICES
& PRODUKTEN

VA INDIGO

Digitale Lösungen für Ihr Business

Mit **VA INDIGO** unterstützen wir Sie bei der Digitalisierung Ihrer Arbeitsabläufe im Zusammenhang mit der Maschinenbedienung - von der Installation und Schulung über die Bedienung, Wartung und Störungsbehebung bis hin zu Service und Support.

Die Welt wird immer digitaler und die Industrie mit ihr. Ein wichtiger Aspekt ist dabei die Digitalisierung und Vernetzung von Maschinen, Logistik, Peripheriesystemen und Ressourcen auf Basis der Erfassung, Analyse und Übertragung von Daten. Dies ermöglicht die Optimierung nicht nur eines Produktionsschrittes, sondern einer kompletten Wertschöpfungskette. Darüber hinaus werden neue Wege für die Bereitstellung von Produkten und Dienstleistungen eröffnet.

Auf der Grundlage dieser weltweiten Entwicklung werden wir Sie dabei unterstützen, zukünftige Anforderungen wie Autonomie, Konnektivität, Produktivität, Vorhersagbarkeit und Flexibilität zu erfüllen. Und wir werden Ihnen helfen, in die nächste Ära der Produktion zu starten.

- ☒ **Optimierte Ressourcennutzung**
durch automatisierte Prozesse
- ☒ **Höherer Ertrag & geringere Kosten**
für Qualitäts- & Schadensmanagement
- ☒ **Ermöglicht größeres Produktportfolio**
mit profitableren Produkten



VA DASHBOARD ist das Eingangstor zu Ihrer Beschichtungsanlage. Es fasst wichtige Informationen über Ihre Maschine auf einem einzigen Bildschirm zusammen.

VA DASHBOARD

Visualization of Production KPIs



DAILY QUESTIONS

HE WANTS TO SEE INFORMATION
OF DIFFERENT PRODUCTION SITES.

HE NEEDS OVERVIEWS FOR
INTERNAL ANALYSIS & IMPROVEMENTS

OUR SOLUTION

VA DASHBOARD
VISUALIZATION OF PRODUCTION KPIs

DEFINED KPIS AT A GLANCE

FAST WEB-BASED ACCESS



PROCESS SUITE

Automation & Monitoring



The PROCESS SUITE is covering all coating process related software products. We understand the critical importance of maintaining stable and efficient processes while improving yield and usability.

With the PROCESS SUITE, we support your operators in making the coating machines as autonomous as possible and in monitoring the process.



VA PROCESSMASTER
VA SMART OPERATOR
VA TIPCOS
VA PROCESSMONITOR
VA TRIMSHIM
VA PROCOS



ANALYSIS SUITE

Data Review & Analysis



The ANALYSIS SUITE is tailored to meet all your analysis needs. From data collection and provision to in-depth analysis and correlations, this suite offers you a comprehensive solution to make full use of your data.

With intuitive dashboards, trend, exporting and visualisation tools process, your engineers can create their own analysis toolbox, supporting root cause analysis and technological optimization of products and machines. Predefined visualized KPIs give Managers overviews - especially for their needs.



VA VACUUM ANALYZER
VA PROCESSDB INTERFACE
VA TRENDS & EXPORTER



SERVICE SUITE

Smart Services



The SERVICE SUITE is designed to cover every aspect of your maintenance operations - from ordering spare and wear parts to providing remote support and managing maintenance schedules.

With comprehensive features, including staff training and a knowledge database, this suite is your one-stop solution for optimizing efficiency and maximizing uptime.



VA CATALOG
VA COLLEGE
VA LIVE
VA PEDIA
VA CATHODE MANAGEMENT
VA MAINTENANCE MONITOR



VA SMART OPERATOR

Automated Recipe
Routines



DAILY QUESTIONS

HOW CAN I EFFICIENTLY SWITCH FROM
COATING PRODUCT 1 TO PRODUCT 2?

HOW CAN I GET STANDARDIZED
RAMP-UPS AND RUMP-DOWNS?

OUR SOLUTION

VA SMART OPERATOR
AUTOMATED RECIPE ROUTINES

CREATE PROCESS ROUTINES
BY SOFTWARE SUPPORT

PREDICTABLE UP-TIME



VA PROCESSMASTER

Automated Process
Stabilization



DAILY QUESTIONS

OUR LAYER STACKS ARE GETTING
MORE COMPLEX.

HOW CAN I PREVENT DEVIATIONS
FROM THE PROCESS?

OUR SOLUTION

VA PROCESSMASTER
AUTOMATED PROCESS STABILIZATION

EASIER & FASTER
PRODUCT SETUP

INCREASED PRODUCTION YIELD



VA TIPCOS

Tipping Point Control



DAILY QUESTIONS

HOW CAN I EFFICIENTLY
FIND THE OPTIMAL WORKING POINT?

HOW CAN I DETERMINE THE
TIPPING POINTS OF CATHODES GROUPS?

OUR SOLUTION

VA TIPCOS
TIPPING POINT CONTROL

PREVENT EXCEEDING
TIPPING POINT & LESS WASTE

INCREASE SPUTTER RATE



VA VACUUM ANALYZER

Evaluation of Vacuum
Quality



DAILY QUESTIONS

DO WE HAVE A CHANGE
IN VACUUM QUALITY OVER TIME?

HOW LEAK-PROOF IS
THE COATING MACHINE?

OUR SOLUTION

VA VACUUM ANALYZER
EVALUATION OF VACUUM QUALITY

CONCLUSIONS OF
VACUUM COMPONENT QUALITY

MONITOR VACUUM
OF THE MACHINE



VA PROCESSDB INTERFACE

Interface to Machine Data



DAILY QUESTIONS

I NEED TO GET
HISTORICAL DATA OF THE PROCESS.

I NEED TO FIND
CERTAIN CORRELATIONS.

OUR SOLUTION

VA PROCESSDB INTERFACE
INTERFACE TO MACHINE DATA

ROOT CAUSE ANALYSIS

USE DATA WHERE NEEDED



VA TREND & EXPORTER

Data Visualizer & Exporter



DAILY QUESTIONS

I NEED A TOOL TO GET
DATA FROM THE MACHINE.

I NEED THEM
IN A CERTAIN DATA FILE FORMAT.

OUR SOLUTION

VA TREND & EXPORTER
DATA VISUALIZER & EXPORTER

TREND VISUALISATION
OF ANY PROCESS PARAMETER

EASY ACCESS TO DATA



VA MAINTENANCE MONITOR

Preventive Maintenance



DAILY QUESTIONS

I NEED TO IDENTIFY
TASKS & FIND INFORMATION.

HOW CAN I PLAN
A MAINTENANCE?

OUR SOLUTION

VA MAINTENANCE MONITOR
PREVENTIVE MAINTENANCE

SUCCESSFULLY
MAINTAINED MACHINE

STEP BY STEP INSTRUCTIONS



VA CATALOG

Spare & Wear Parts
Catalog



DAILY QUESTIONS

I NEED TO IDENTIFY
SPARE PARTS.

3D MODELS COULD HELP ME
TO FIND THEM FASTER.

OUR SOLUTION

VA CATALOG
SPARE & WEAR PARTS CATALOG

SPARE & WEAR PARTS -
ALWAYS ON TIME

FASTER ORDERING PROCESS



OUR STRENGTHS



IN-HOUSE TECHNOLOGY & APPLICATION CENTER

- 🔧 Sample coatings of customer applications
- 🔧 Development of customized layer stacks
- 🔧 Product & process verification and optimization
- 🔧 Testing of new technologies and components



PROFESSIONAL SIMULATION SUPPORT

We offer professional simulation technology to ensure best process quality with regards to plasma, heat and cooling. Furthermore, our simulation tools help demonstrate, develop and improve layer properties and define or optimize processes, details and the performance of our systems.



GLOBAL PROJECT EXPERIENCE

VON ARDENNE equipment is used in over 50 countries.

We have established an installed base of hundreds of coating systems worldwide, ranging from small tools to equipment for large-area coating applications for several markets.



COMPREHENSIVE SERVICE PORTFOLIO

- 🔧 VON ARDENNE service hubs around the world
- 🔧 On-site service
- 🔧 Remote access by our technology department
- 🔧 Regular technical and technological trainings
- 🔧 Spare & wear part warehouse close to customers
- 🔧 Lifecycle extension of wear parts



CLOSE PARTNERSHIP

VON ARDENNE has a network of partners for even more profound R&D work and to identify future technologies. It consists of:

- 🔧 Fraunhofer Institutes such as IPMS, FEP, IST and ISE
- 🔧 Institutes of the Helmholtz Association (Jülich, Berlin)
- 🔧 Universities (Kiel, Dresden, Sheffield)
- 🔧 Companies such as FAP GmbH, scia Systems GmbH



UPGRADES & RETROFITS

As soon as your business is growing, your VON ARDENNE equipment will grow accordingly - thanks to its modular design and the upgrades we provide. We will also supply you with the necessary technology upgrades if you decide to change your applications.

Furthermore, when your equipment is ageing, we will retrofit your systems with new components, no matter if they are VON ARDENNE or third-party machines.



PRODUCT
TOPICS



PRODUCT
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COMPO-
NENTS



vonardenne.com

WHO WE ARE & WHAT WE DO

VON ARDENNE develops and manufactures industrial equipment for vacuum coatings on materials such as glass, wafers, metal strip and polymer films. These coatings give the surfaces new functional properties and can be between one nanometer and a few micrometers thin, depending on the application.

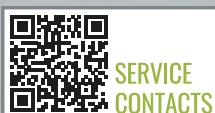
Our customers use these materials to make high-quality products such as architectural glass, displays for smartphones and touchscreens, solar modules and heat protection window film for automotive glass.

We supply our customers with technologically sophisticated vacuum coating systems, extensive expertise and global service. The key components are developed and manufactured by VON ARDENNE itself.

Systems and components made by VON ARDENNE make a valuable contribution to protecting the environment. They are vital for manufacturing products which help to use less energy or to generate energy from renewable resources.



SALES
CONTACTS



SERVICE
CONTACTS

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