

VON ARDENNE

FOBA ROLL-TO-ROLL VACUUM WEB COATING SYSTEM

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ROLL-TO-ROLL VACUUM WEB COATING SYSTEM

Highly productive roll-to-roll
coating in excellent quality
with quick & easy maintenance

FOBA

HIGHLY PRODUCTIVE ROLL-TO-ROLL COATING

in excellent quality

FOBA systems are roll-to-roll coating systems for flexible substrates. They are a good choice if you want to deposit functional coatings at high rates on polymer film or metal foil. They use proven VON ARDENNE electron beam evaporation technology. FOBA systems are ideal for high-volume production. They are available for applications requiring one or two electron-beam deposition layers.

You can rely on our many years of experience in providing vacuum coating equipment for large-area coatings. We have incorporated this experience and our know-how in technology and substrate handling into this platform.

Highest productivity
through world-leading electron beam technology



Outstanding product quality
through closed-loop process control



Low downtime
due to quick & easy maintenance



FOBA600



FOBA1600



FOBA2800

INDIGO



DIGITAL SERVICES & PRODUCTS



PROCESS SUITE
Automation &
Monitoring



ANALYSIS SUITE
Data Review &
Analysis



SERVICE SUITE
Smart Services

APPLICATIONS



RECYCLABLE FOOD PACKAGING



LITHIUM-ION BATTERIES



TECHNICAL DATA

Subject to change without notice
due to technical improvement.

Variety of substrate materials

e.g. PET, PP, PA, PE, PLA,
pre-coated paper

Substrate thickness range

4.5 μ m to 200 μ m

High operation speed

up to 1200 m/min

Good coating width

max. 2800 mm

Coating materials

metals (e.g. Al, Cu, Ti, ...) and oxides (SiO₂,
AlO_x, ...)

Typical thickness non-uniformity

< +/- 8 %

Coil outer diameter

max. 1250 mm

Coil length

max. 100 000 m (at 12 μ m substrate
thickness)

Pre-treatment

several options available

Closed-loop layer thickness control
implemented

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.

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
- Institutes of the Helmholtz Association
- Universities
- Companies

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

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.

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.

WORLDWIDE SALES AND SERVICE

VON ARDENNE GmbH (headquarters) | Am Hahnweg 8 | 01328 DRESDEN | GERMANY

Sales: +49 (0) 351 2637 189 | sales@vonardenne.com

Service: +49 (0) 351 2637 9400 | support@vonardenne.com

VON ARDENNE Vacuum Equipment (Shanghai) Co., Ltd. | +86 21 3769 0555 | sales-vave@vonardenne.com; support-vave@vonardenne.com

VON ARDENNE Malaysia Sdn. Bhd. | +60 4408 0080 | sales-vama@vonardenne.com; support-vama@vonardenne.com

VON ARDENNE North America, Inc. | Ohio office | +1 419 386 2789 | sales-vana@vonardenne.com; support-vana@vonardenne.com

VON ARDENNE Vietnam Co., Ltd. | +84 28 6272 3189 | sales-vavn@vonardenne.com; support-vavn@vonardenne.com

VON ARDENNE India Pvt. Ltd. | sales-vaid@vonardenne.com; support-vaid@vonardenne.com

