

# **High performance metallizing**



**VACUUM METALLIZING**

**VISION K5 METALLIZER**

# Advancing sustainability

The **VISION K5 Metallizer** can handle a wide variety of different film types including heat sensitive, thin gauge and the new generation of sustainable substrates (BOPE, MDO PE, CPE) and low temperature Heat Sealable BOPP films.

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Total **flexibility**



Energy saving and  
**improved cooling**



Perfect **winding**

# Creating value

**BOBST innovations**  
are driven by customer  
and brand owner needs.

> READ MORE

## Sustainability

Growing demand in the market for recyclable, reusable and compostable packaging solutions, to work towards a circular economy.

## Barrier solutions

Growing requirement for packaging with high barrier to oxygen and water to extend shelf life. Unique combinations of vacuum and wet coatings for faster time-to-market.

## Expanding reach of added value coating

Barrier enhancement and high precision coating for high quality, high appeal products with extended shelf life to be used in a variety of industries including labels, medical, hygiene, cosmetics and industrial.

## Partnerships to deliver new innovative solutions

Working together to develop, test, refine and certify new products and solutions. Process experts and converters fulfill the desired end product and meet evolving market needs.

## Cost reduction

AluBond® as an enabling technology to higher performance, dyne level, adhesion and barrier at a lower cost.

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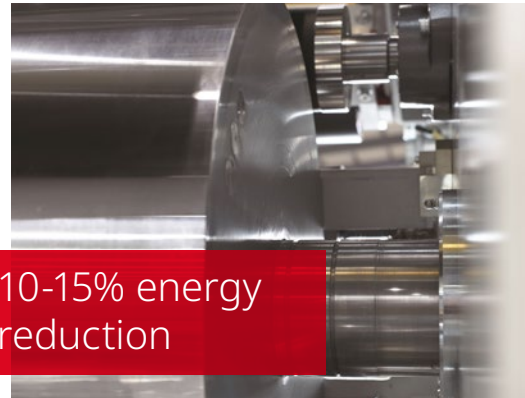
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### 16% improved collection efficiency

- 600mm coating drum
- Largest coating window in the industry
- Less consumables
- Increased boat life
- Full width viewing windows for improved view of metallization process



### 10-15% energy reduction

- ECO Mode reduces energy consumption by up to 50% during stand-by and reduces consumables usage
- Improved film cooling due to the 600mm drum and the 2 zone gas wedge
- Increased cooling efficiency of 25%
- Improved water cooling system



### Excellent coating uniformity

- Powerful, robust evaporation source
- Staggered boat arrangement
- Easy access to clean boats
- Spools mounted on removable trolley for easy changing
- 10% increased performance

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Perfect winding

- BOBST renowned winding mechanism
- Minimum roller contact
- True tension control for virtually wrinkle-free film
- 6 independently driven motors giving 3 independent tension control zones
- Lay-arm rollers on unwind and rewind give better winding performance and help to prevent telescoping
- Unload and load rolls from same side




High productivity

- Compact vacuum pumping group resulting in smallest machine footprint in industry
- Dry rotary screw pumps provide consistently high vacuum performance with lower cost of ownership
- Booster pumps run with hermetically sealed water cooled motors operating at double the normal speed
- Floor mounted diffusion pumps located directly underneath the evaporation zone eliminating the risk of a backstream of oil on to the film

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**1**

VISION K5 1250   1650   2050   2450	2.97 m	9.74 ft
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**2**

VISION K5 1250   1650   2050   2450	5.67 m	18.60 ft
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**3**

VISION K5 1250	10.83 m	35.55 ft
VISION K5 1650	11.35 m	37.24 ft
VISION K5 2050	15.52 m	50.92 ft
VISION K5 2450	16.32 m	53.54 ft

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### Performance VISION K5 METALLIZER

20µm OPP	K5 STANDARD	DarkNight®	AluBond®
Oxygen transmission rate (cm <sup>3</sup> /m <sup>2</sup> /day) - typical values	<40		<20
Water vapor transmission (g/m <sup>2</sup> /day) - typical values	<1		<0.1
OD uniformity (%)	<±5%		<±10%
Adhesion (N/15mm) - typical values	>0.5		>2

12µm PET			
Oxygen transmission rate (cm <sup>3</sup> /m <sup>2</sup> /day) - typical values	<1	<0.6	
Water vapor transmission (g/m <sup>2</sup> /day) - typical values	<1	<0.6	
OD uniformity (%)	<±5%		
Adhesion (N/15mm) - typical values	>0.5		>4

25µm CPP			
Oxygen transmission rate (cm <sup>3</sup> /m <sup>2</sup> /day) - typical values	<40		<20
Water vapor transmission (g/m <sup>2</sup> /day) - typical values	<1		<0.1
OD uniformity (%)	<±5%		
Adhesion (N/15mm) - typical values	>0.5		>2


### Technical

Max web width (mm)	1250	1650	2050	2450
Min web width (mm)	425	625	825	1025
Max roll diameter (mm)	1000	1000	1000	1000
Max line speed (m/min)	840	840	840	840
Average power consumption (kW)	155	180	225	250
Average water consumption (m <sup>3</sup> /hr)	27	30	33	36
Estimated annual output (tonnes)	2300	3100	3800	4500

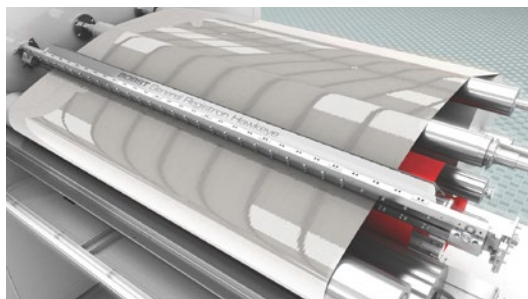
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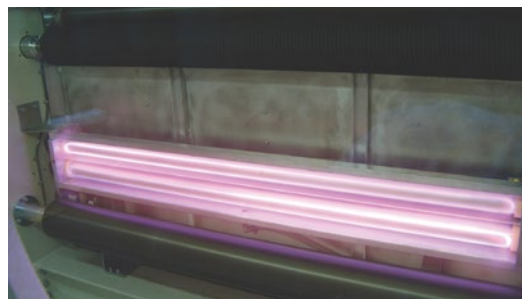
### > HAWKEYE

BOBST Hawkeye is an in-line optical density deposition control and defect monitoring system that, at full metallizer speed, detects, counts and categorizes pinholes and other defects from 0.1mm upwards. Hawkeye comes as standard with both the AIOx and DarkNight® processes.



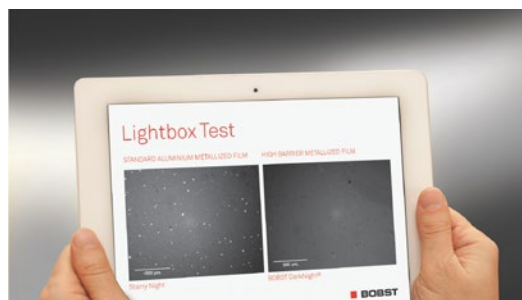
### > AluBond®

The BOBST AluBond® process provides high metal adhesion with values up to 5N/15mm and improves surface energy levels through metallization, eliminating the need for chemically treated films. Additionally, AluBond® enhances oxygen and water vapour barrier levels on BOPP and CPP films.



### PLASMA TREATMENT

BOBST offer both a plasma pre-treater and a post-treater as an option. The pre-treater is used to prepare the film surface for metallization to achieve better adhesion and improved barrier properties and is available up to 4450mm. The standard post unit is available up to 2450mm.



### > DarkNight®

BOBST DarkNight® achieves high barrier metallized films at a lower cost eliminating the need to use high Optical Density (OD) deposition levels (>3.0 OD) to achieve high OTR & WVTR values. An enhanced barrier performance of 60-80% is achieved.

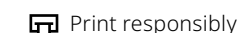


### > AIOx Conversion

The BOBST AIOx process is a well-established system for production of clear film. The Integrated Conversion Solution incorporates application of an off-line topcoat to protect barrier. OTR values have been shown to improve from 1.14cm<sup>3</sup> (m<sup>2</sup>/day) to <0.1cm<sup>3</sup> (m<sup>2</sup>/day).

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# Maintaining excellence

Expert services for all your equipment.  
Improve your processes, boost your productivity  
and enhance your expertise with a complete range  
of services from BOBST.



## Maintenance Plus

- Scheduled maintenance with BOBST certified technicians
- Preventative intervention, maximizing machine uptime
- Optimum performance over the equipment lifetime

[> WATCH VIDEO](#)

## Approved parts and logistics

- BOBST Original and Certified parts, and consumables
- Quality assurance, and extended maintenance intervals
- Worldwide distribution, and full availability where and when you need it

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## Machine upgrades

- Additional features, configured for your machine
- Enhanced functionality, connectivity and capability
- Future-proofing your investment, maintaining competitive advantage

[> LEARN MORE](#)

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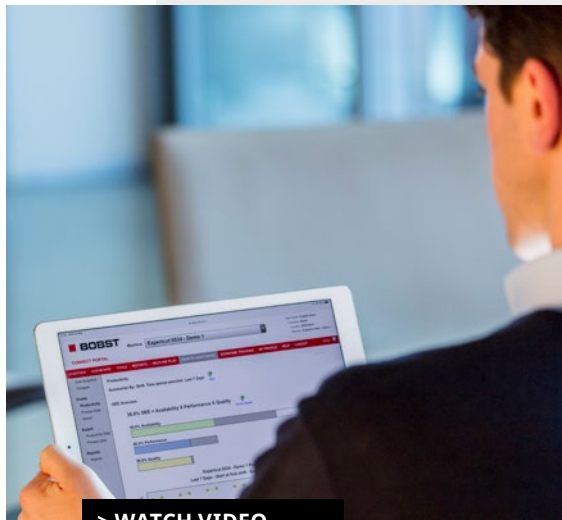
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# Switch on digital transformation

BOBST Connected Services ensures your business is ready for the changing world of digital manufacturing. Our range of apps and technical support brings full connectivity to your equipment and processes – providing you with a wealth of real-time data, analytical tools and expertise – helping you work smarter and more productively.



> WATCH VIDEO

## Helpline Plus

- Remote access intervention, with BOBST technicians
- Expert support, eight hours a day, five days a week
- Maintain production, reduce callouts by 80%

## Connect Portal

- Easy-to-access portal to data, reports and analysis
- User-friendly interface
- Full connectivity and accessibility
- Access insights on the go with

**Mobile Portal** from your smartphone

## Remote Monitoring

- Real-time production and operating data
- Alerts and notifications when something happens
- Enabling instant intervention

## Downtime Tracking

- Detailed analysis on machine performance
- Understand the root causes of downtime
- Enabling preventative intervention and improved productivity

Please contact your local BOBST representative for service availability

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# **Your dream machine** is waiting for you


[WWW.BOBST.COM/VISIONK5](http://WWW.BOBST.COM/VISIONK5)



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