

High performance metallizing



VACUUM METALLIZING

VISION K5 HS METALLIZER

Leading sustainability

The **VISION K5 HS** (high speed) metallizer has been designed to handle a wide variety of different film types including heat sensitive, thin gauge and sustainable substrates with new features to improve metallizing performance on PE and low temperature Heat Sealable BOPP films.

VISION K5 HS

- > At a glance
- > Packaging market
- > Benefits and features
 - > 1–3
 - > 4–5
- > Specifications
 - > Measurements
 - > Technical information
- > Related products
- > Services
 - > General services
- > BOBST Connect

Total flexibility and perfect winding

Improved cooling and handling for PE films

BOBST Connect Essential, data and connectivity **as standard**

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Creating value

BOBST innovations
are driven by customer
and brand owner needs.

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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.

VISION K5 HS

- > At a glance
- > Packaging market
- > Benefits and features
 - > 1–3
 - > 4–5
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 - > Measurements
 - > Technical information
- > Related products
- > Services
 - > General services
- > BOBST Connect



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Improved source design

- 100 mm full staggered boat arrangement
- Improved coating uniformity at high speeds
- Access to both sides of the source
- Simpler wire feed design
- Reduced maintenance
- Pneumatically activated shutter for faster response times
- Shutter on the Hinged Shield for easier cleaning



20% wider coating window

- Largest coating drum in industry at 700 mm
- Improved collection efficiency
- Wider coating window
- Increased cooling efficiency for PE & low SIT films
- Less aluminium consumption
- Improved boat life

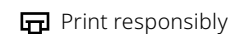


Perfect winding

- BOBST renowned winding mechanism
- Minimum roller contact
- Non Contact Web path option
- 6 independently driven motors giving 3 independent tension control zones
- True tension control for virtually wrinkle-free film
- Designed for careful handling of heat-sensitive substrates such as PE

VISION K5 HS

- > At a glance
- > Packaging market
- > Benefits and features
 - > 1–3
 - > 4–5
- > Specifications
 - > Measurements
 - > Technical information
- > Related products
- > Services
 - > General services
- > BOBST Connect



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High productivity

- Faster coating speeds (860 m/min at 2.2 OD)
- 20 minutes improvement in cycle time
- Diffusion pump lids on vessel wall for reduced cleaning
- 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




Lower production costs

- Faster venting and pump down times
- Savings in production costs
- Reduced production cycle resulting in more rolls per day
- Reduced Total Cost of Ownership compared to previous model

VISION K5 HS

- > At a glance
- > Packaging market
- > Benefits and features
 - > 1–3
 - > 4–5
- > Specifications
 - > Measurements
 - > Technical information
- > Related products
- > Services
 - > General services
- > BOBST Connect

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VISION K5 HS

- > At a glance
- > Packaging market
- > Benefits and features
 - > 1–3
 - > 4–5
- > Specifications
 - > Measurements
 - > Technical information
- > Related products
- > Services
 - > General services
- > BOBST Connect

1


VISION K5 HS 1350 1650 2600	3.21 m	10.53 ft
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2

VISION K5 HS 1350 1650 2600	5.79 m	19.0 ft
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3

VISION K5 HS 1350	13.13 m	43.07 ft
VISION K5 HS 1650	13.13 m	43.07 ft
VISION K5 HS 2600	14.53 m	47.67 ft

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Performance		VISION K5 HS	
20µm OPP	K5 STANDARD	DarkNight®	AluBond®
Oxygen transmission rate (cm ³ /m ² /day) - typical values	<40		<20
Water vapor transmission (g/m ² /day) - typical values	<1		<0.1
OD uniformity (%)	<±5%		<±10%
Adhesion (N/15 mm) - typical values	>0.5		>2
12µm PET			
Oxygen transmission rate (cm ³ /m ² /day) - typical values	<1	<0.6	
Water vapor transmission (g/m ² /day) - typical values	<1	<0.6	
OD uniformity (%)	<±5%		
Adhesion (N/15 mm) - typical values	>0.5		>4
25µm CPP			
Oxygen transmission rate (cm ³ /m ² /day) - typical values	<40		<20
Water vapor transmission (g/m ² /day) - typical values	<1		<0.1
OD uniformity (%)	<±5%		
Adhesion (N/15mm) - typical values	>0.5		>2
Technical			
Max web width (mm)	1350	1650	2600
Min web width (mm)	475	625	1125
Max roll diameter (mm)	1000	1000	1000
Max line speed (m/min)	1000	1000	1000
Average power consumption (kW)	199	217	308
Average water consumption (m ³ /hr)	37	45	107
Estimated annual output (tonnes)	3510	4250	6500

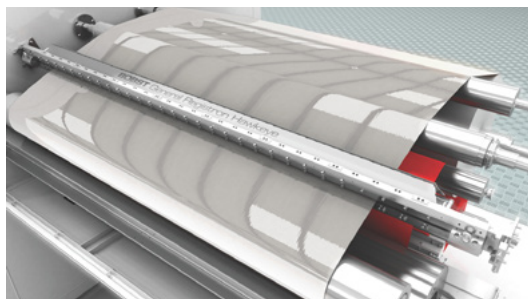
VISION K5 HS

- > At a glance
- > Packaging market
- > Benefits and features
 - > 1–3
 - > 4–5
- > Specifications
 - > Measurements
 - > Technical information
- > Related products
- > Services
 - > General services
- > BOBST Connect

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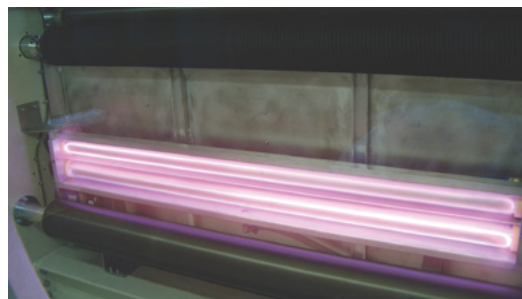
> Hawkeye

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 0.1 mm upwards. Hawkeye comes as standard with both the AIOx and DarkNight® processes.



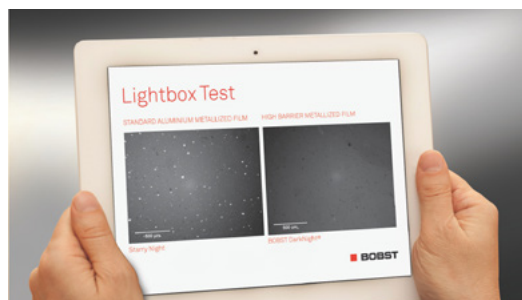
> AluBond®

The BOBST AluBond® process provides high metal adhesion with values up to 5N/15 mm 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 a plasma pre-treater and a post-treater as options. The pre-treater is used to prepare the film surface to achieve better adhesion and improved barrier and is available up to 4450mm. The standard post unit is available up to 2450mm and promotes improved dyne level benefits.



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 1.14cm³ (m²/day) to <0.1cm³ (m²/day).

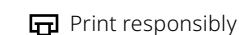


> oneBARRIER PrimeCycle

The **oneBARRIER** project creates recycle-ready mono-material ultra-high and high barrier polyolefin-based (**PrimeCycle**) for packaging designers that are industrially viable alternatives to non-recyclable metallized PET film.

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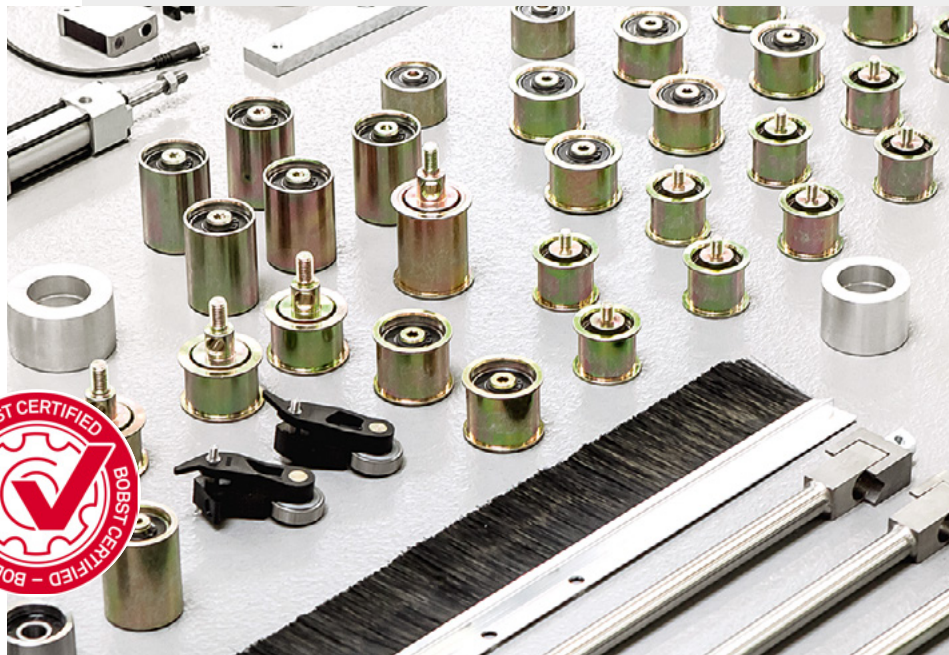
- > At a glance
- > Packaging market
- > Benefits and features
 - > 1-3
 - > 4-5
- > Specifications
 - > Measurements
 - > Technical information
- > Related products
- > Services
 - > General services
- > BOBST Connect



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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.



Maintain your investment

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

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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

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VISION K5 HS

- > At a glance
- > Packaging market
- > Benefits and features
 - > 1-3
 - > 4-5
- > Specifications
 - > Measurements
 - > Technical information
- > Related products
- > Services
 - > General services
- > BOBST Connect

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Digital age manufacturing happening with BOBST Connect

BOBST Connect is an end-to-end, user-centric digital platform that enhances and increases your packaging productivity. It's designed to help you make the most of the data your machine generates, improving efficiency across your value chain.

As well as exceptional data insights, BOBST Connect helps to orchestrate and improve your whole production process, from your PDF to the finished product and quality report. It brings data and digital services together in one fully connected platform, with machine insights and expertise built in.

All of this is available to you as part of BOBST Connect Essential, the first subscription level that you receive when you purchase a new BOBST machine.



Performance analysis

- Production insights, including interaction of OEE components
- Identify and eliminate performance gaps

Accurate reporting

- Meaningful insights on OEE and downtime
- Accurately measure target speed and quality losses
- Trend analysis over time

Progress indicator

- Highlights extensive production deviations
- Empowers timely interventions

Remote assistance

- Priority access to technical specialists
- Video with Augmented Reality expert support based on real-time data
- Available 24/7 (optional)


Shift management

- Optimize planning time
- Deliver overall resource efficiency

VISION K5 HS

- > At a glance
- > Packaging market
- > Benefits and features
 - > 1-3
 - > 4-5
- > Specifications
 - > Measurements
 - > Technical information
- > Related products
- > Services
 - > General services
- > BOBST Connect

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- > At a glance
- > Packaging market
- > Benefits and features
 - > 1–3
 - > 4–5
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 - > Measurements
 - > Technical information
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- > Services
 - > General services
- > BOBST Connect

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