

INUBIA B6 & B15

THE NEXT GENERATION
IN POLYMER METALLIZATION



Coating Equipment



INUBIA B6 & B15

VERSATILE SYSTEMS FOR DECORATIVE COATINGS AND DESIGN ELEMENTS

The PVD coating systems INUBIA B6 and B15 are perfectly suited for surface finishing in the high-end sector, where design, durability, cost-effectiveness and reproducibility are important - and all this with a high degree of flexibility in terms of base substrates and component geometries.

Smooth, matt or glossy decorative coatings

The INUBIA B6 and B15 are single- and double-door, fully automated coating systems that operate in batch mode. Short pumping times ensure high efficiency and fast processing times, while simple maintenance routines and the use of convenient spindle loading equipment maximize operational efficiency.

With the INUBIA B15, optional additional swing cathodes not only increase the flexibility of the system, but also save you lots of time when changing targets.

The new-generation INUBIA B6 and B15 boast extended maintenance intervals, resulting in a longer productive coating service life.

The INUBIA B6 and B15 are planar magnetron sputtering systems that enable both reactive and non-reactive PVD processes. The intelligent combination of different metal plasma sources and process gases allows thin-film coatings with decorative and functional properties to be deposited.

The INUBIA B6 and B15 produce smooth, matt and glossy coatings in custom colors with high durability and adhesion on a wide range of conductive and non-conductive base materials. The substrates retain their original surface texture.



The metallized coating of the kidney of the electric BMW iX enables the integration of sensors, for example to measure the distance to the vehicle in front.

A BROAD SPECTRUM OF MODERN COLORS FOR A WIDE RANGE OF APPLICATIONS



For many markets and applications

The INUBIA B6 and B15 coating systems have been specially developed for PVD coating factories that need the flexibility to coat different substrates and geometries flexibly and quickly. They meet the demanding requirements of industries including jewellery, medical technology, automotive, sanitary, consumer electronics and household appliances.

Excellent mechanical properties

The INUBIA B6 and B15 coating systems from Oerlikon Balzers can be used to apply various high-performance coatings that meet the specific requirements of a wide range of industries. The diverse properties include high adhesion, excellent scratch and abrasion resistance and outstanding color stability.

Reproducible decorative coatings

The INUBIA B6 and B15 coating systems from Oerlikon Balzers enable reproducible decorative coatings.

The easy-to-use software from Oerlikon Balzers allows specific process parameters to be configured and saved, with profiles that can be reused. Automatically generated messages provide information on the type and position of relevant process events, which are documented and available for evaluation at any time. Service technicians can access the system via remote maintenance, search for problems and provide information on suitable corrective measures.

This all means that you can coat components and design elements made of polymers and other materials with the colors that your customers want.

Examples of sputter targets:	Chromium, titanium, zirconium, aluminum, tungsten, molybdenum, stainless steel, copper, silver, gold, carbon, silicon and many others.
Process gases:	Argon, nitrogen, acetylene (carbon dioxide or other process gases optional)
Examples of substrate materials:	Plastics: ABS, PC, PC/ABS, PC/PBT, PC/PET, selected PA blends (glass fiber or mineral fiber reinforced), galvanized plastic, stainless steel...
Batch time:	typically 20 - 60 min. Coating thickness: typically 0.05 - 1.5 µm



THE NEW GENERATION INUBIA B6

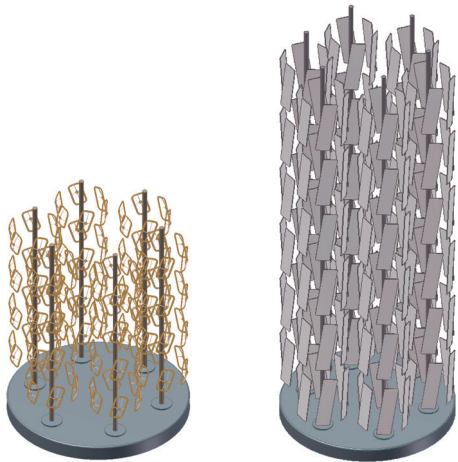
The ideal system for small volumes and parts

The INUBIA B6 is perfect for small volumes, smaller parts, sampling and special colors.

INUBIA B6	
Max. coating height	600 mm
Vacuum chamber doors	3
Max. coating diameter	220 mm
Number of spindles	6
Spindle diameter	220 mm (for system with 6 spindles)
Footprint	~ 31 m²
Max. coating temperature	80 °C

Custom spindles manufactured

Depending on construction geometry on request



Carousel for INUBIA B6

Carousel for INUBIA B15

Ideal for small series

... since it is compact and easy to operate. Short batch and pumping times enable fast processing times.



Reproducible

... through precise parameter control. E.g. for special colors or the introduction of new product lines with small volumes.



FLEXIBILITY FOR SMALL SERIES AND SAMPLING

Efficiency

... thanks to short process steps, user-friendly process software and remote control capability.



Reliable coating adhesion

... thanks to reactive and non-reactive sputter technology with a high ionization level and high plasma density.

THE NEW SYSTEM

INUBIA B15

The system for high production volumes

INUBIA B15 is the ideal system for the automotive industry and for large components.

INUBIA B15	
Max. coating height	1500 mm
Vacuum chamber doors	1 or 2
Max. coating diameter	970 mm
Number of spindles	1 or 4
Spindle diameter	360 mm (for system with 4 spindles)
Footprint	~ 50 m ²
Max. coating temperature	80°C



An operator at the BMW factory in Landshut loads the INUBIA B15 with kidneys from the BMW iX.

For applications such as the kidney of the BMW iX, Oerlikon Balzers has developed the INUBIA B15, an integrated automated solution for metallizing polymers that enables high-volume production to meet automotive industry specifications.

2-door system
...for higher performance and more productivity thanks to parallel work steps



1-door system
... for high operating efficiency through easy access and convenient spindle loading with large components



FLEXIBILITY AND
HIGH PRODUCTIVITY
FOR INDUSTRY

Flexibility
...thanks to separate monitor desk



Maximum efficiency
... since the second door can be unloaded and reloaded during the coating process.



PROFIT FROM OUR WORLDWIDE SALES AND AFTER-SALES NETWORK



Hauptsitz

Oerlikon Balzers Coating AG
Balzers Technology & Service Centre
Iramali 18
9496 Balzers
Liechtenstein
Tel: +423 388 7500
E-Mail: info.balzers@oerlikon.com
www.oerlikon.com/balzers

Deutschland

Oerlikon Balzers Coating Germany
GmbH
Am Böttcherberg 30-38
51427 Bergisch Gladbach
Deutschland
Tel: +49 2204 299-192
E-Mail: info.balzers.de@oerlikon.com
www.oerlikon.com/balzers/de

Indien

Oerlikon Balzers Coating India Pvt. Ltd.
EL-22, J Block, M.I.D.C., Bhosari
411026 Pune, Maharashtra
Indien
Tel: +91 20 306 16 000
E-Mail: info.balzers.in@oerlikon.com
www.oerlikon.com/balzers/in

USA

Oerlikon Balzers Coating USA Inc.
6000 North Bailey Avenue
Suite 3
Amherst, NY 14226
USA
Tel: +1 716 799 06 25
E-Mail: info.balzers.us@oerlikon.com
www.oerlikon.com/balzers/us

China

Oerlikon Balzers Coating (Suzhou) Co., Ltd
No.9 Chang Yang Street
Suzhou Industry Park
Jiangsu Province Suzhou 215024
China
Tel: +86 512 68835172
E-Mail: info.balzers.cn@oerlikon.com
www.oerlikon.com/balzers/cn

Japan

Oerlikon Japan Co., Ltd. Balzers
7-2-2 Shinomiya, Hiratsuka-City
Kanagawa Pref. 254-0014
Japan
Tel: +81 463 54 83 02
E-Mail: info.balzers.jp@oerlikon.com
www.oerlikon.com/balzers/jp