
DECORA PVD SERIES

PVD System for Decorative Coatings



The Decora PVD Series is engineered for high-volume, reliable production operations, offering exceptional performance for decorative and functional coatings. Utilizing magnetron sputtering and/or cathodic arc deposition, versatile and cost-effective vacuum deposition techniques, the Decora Series delivers superior film properties, enhanced coating adhesion, and consistent quality. Each system is designed and manufactured to ensure long-term reliability and optimal performance, even under the most demanding production conditions.

CATHODIC ARC PROCESS TECHNOLOGY

Cathodic arc evaporation remains one of the most widely adopted vacuum coating technologies for decorative applications. The technique offers advantages such as high deposition rates, strong adhesion, excellent coating density, cost effective operation.

This makes cathodic arc deposition especially suitable for entry-level and mid-range decorative markets where productivity and coating robustness are key priorities.

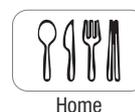


FEATURES	Decora 1215C	Decora 1515C	Decora 1915C
Vacuum chamber (Φ x H) in mm	1200 x 1500	1500 x 1500	1900 x 1500
Effective coating volume (Φ x H) in mm	800 x 900	1200 x 900	1600 x 900
Rotation system	Double		
Heating system (kW)	20	20	30
Arc sources size	4"	4"	4"
Max. number of arc sources	14	17	20
High vacuum pump	Diffusion		
Pre vacuum pump	Roots + Rotary		
Ultimate vacuum (mbar)	$\leq 5 \times 10^{-6}$		
System control	HMI with SCADA software		
Dimensions (W x Φ x H) in m	3.5 x 8.5 x 4		

* Customized configurations are available.

APPLICATIONS

The Decora Series of systems are designed for wide variety of applications with a wide range of color options



MAGNETRON SPUTTERING TECHNOLOGY

Magnetron sputtering ensures precision for premium coating applications. This technique offers superior coating quality, excellent uniformity across complex geometries, smoother surface finishes, and high-end interference color coatings on metal plates. The equipment is designed as a flexible, modular production tool.

For premium consumer products where flawless appearance, controlled optical effects, and refined textures are essential, our Decora Magnetron Series is the most suitable solution.



FEATURES	Decora 1215M	Decora 1515M	Decora 1915M
Vacuum chamber (Φ x H) in mm	1200 x 1500	1500 x 1500	1900 x 1500
Effective coating volume (Φ x H) in mm	800 x 900	1200 x 900	1600 x 900
Rotation system	Planetary (Double)		
Heating system (kW)	10	10	10
Max. number of magnetron sources	8	12	16
Magnetron Size (Ø x L) in mm	Ø 75 x 1000		
Power supply	DC / Pulsed DC / HIPIMS		
High vacuum pump	Turbo molecular pumps		
Pre vacuum pump	Roots + Rotary		
Ultimate vacuum (mbar)	≤ 5 x 10 ⁻⁶		
System control	HMI with SCADA software		
Dimensions (W x Φ x H) in m	3.5 x 8.5 x 4	4.0 x 8.5 x 4	4.3 x 8.5 x 4

* Customized configurations are available.



Screws, Tools



Consumer Electronics



Jewelry



General Tools



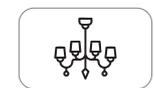
Consumer & Luxury goods



Medical Equipment's



Sporting Goods



Lighting

KEY FEATURES

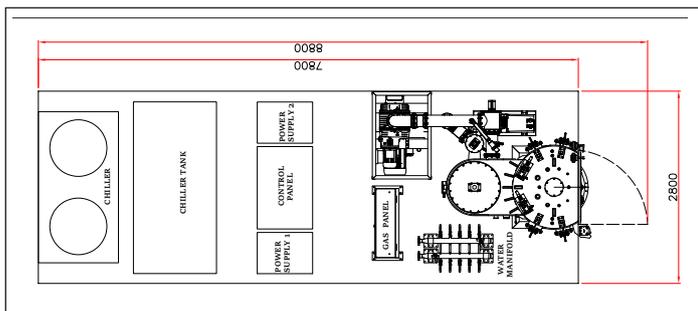
- Coating technologies: Cathodic arc, Magnetron sputtering, or a hybrid combination of the two for diverse coating applications
- Excellent color uniformity and reproducibility
- Flexible and fast loading / unloading system with 13 to 24 rack positions depending on size
- Fully automatic process control ensuring consistent coating quality with minimal operator intervention
- Process data logging and historical database through SCADA system
- Remote support and diagnostics for easy maintenance and trouble shooting
- Compact, space-saving footprint
- Can be tailored according to specific production requirements and throughput capacity

COLOURS AND FINISHES

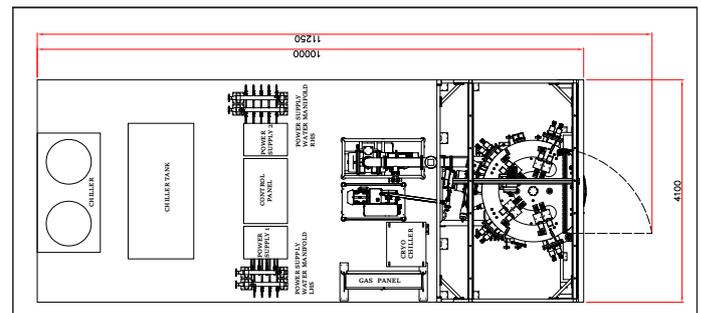
Processes can be customized for any colour in the Pantone catalogue with matte and glossy finishes.



SYSTEMS LAYOUT



Decora 1215C



Decora 1915M

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ADVANCED
Technologies