

TECH notes

Improve Quality & Efficiency

Create high-quality products
& higher profits with in-house
coating solutions.

The perfect finish

Traditionally, many manufacturers have outsourced their surface finishing processes. This approach adds significant complexity and costs and slows production as products sent to a third-party coating vendor must be packaged, shipped, received, and inspected.

If you, like manufacturers across a variety of industries, are searching for financial, operational, and product improvement throughout your operations, one relatively simple solution addresses both quality and efficiency. That solution is adding PVD coating equipment into your manufacturing operations. Bringing coating processes in-house simplifies production and significantly reduces per-part coating costs. In addition, in-house coating adds value to your products by providing full control over product appearance, durability, and performance.

VaporTech equipment creates high-performance, functional, and durable/ decorative surface finishes via thin-film physical vapor deposition (PVD), chemical vapor deposition (CVD), and diamond-like carbon (DLC) coatings.



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 VaporTech®

vaportech.com

Improve Quality & Efficiency

Getting results with PVD coating equipment

COMPELLING *benefits*



Precise

Preservation of surface features, such as sharp edges, and corporate markings



Efficient

Shorter lead times and reduced production costs



Durable

Increased product hardness, strength, and durability, better corrosion resistance



High quality

More control over manufacturing processes




Eco-friendly

Environmentally friendly processes

Many of our customers report a rapid return on investment, predictable operating costs, ease of use, and—often most important—adaptability. Our systems can apply many types of coatings to a variety of part types, sizes, and geometries. Our coatings are custom-created to meet your exact needs.

VaporTech systems offer compelling benefits, especially for products that require different properties, such as a steel cog that needs to be hard and durable, a scalpel, which has to retain an extremely sharp edge, or a faucet, which must be available in a wide choice of colors.

When you work with VaporTech, we help you improve processes and product quality and create differentiated, durable, and high-quality products. VaporTech's coating systems can lower costs, improve the manufacturing processes—and ultimately, help you develop better end products.

 *Examples of coatings and features*

MATERIALS	Hardness (Hv)*	Rigidity/Modulus GPa*	Color range
Chromium nitride (CrN)	2200	300	Light gray
Zirconium oxide (ZrO)	1700	225	Stainless steel
Zirconium nitride (ZrN)	2500	400	Gray to brass
Zirconium oxy carbide (ZrOC)	2300	300	Gray to bronze
Titanium nitride (TiN)	2800	500	Gold
Diamond-like carbon (VT-DLC)	2200	165	Dark gray
304 stainless steel	166	193	Stainless steel

About us

For more than 25 years, companies in a variety of industries have relied on VaporTech's industry-leading coating technologies to ensure their products feature premium surface finishes and functional surface finishes. VaporTech is a subsidiary of Masco Corporation.

