



# CADENCE™

## FLEX

### Build Your Competitive Advantage

#### Production at the pace of your business

Most commercial PVD coating systems process a single coating in large batches of parts over long time periods. However, large batch processing does not always provide the most compatible solution for modern manufacturing scenarios.

Cadence coating systems process one rack at a time, with rapid, high-throughput processing technologies. Business advantages include:

- » Alignment with "one-piece flow" lean manufacturing strategies
- » Efficient processing of multiple part types
- » On-the-fly processing of multiple coating types

Cadence FLEX gives you the flexibility to utilize multiple coating technologies on a single system. In addition, Cadence FLEX is compact making it easy to integrate into the factory environment.

Cadence FLEX coating systems reduce manufacturing complexity by achieving a balanced combination of small batch processing, high-throughput, high-yield and high-reliability, while delivering high-value coatings at the pace of your business.

### The Right Coatings – The Right Technologies – The Right Systems

Delivered exclusively by Cadence FLEX coating systems, Vapor Tech coatings add value to your products with superior performance and appearance. Vapor Tech designed and engineered its Cadence FLEX coating systems to be efficient and flexible to keep pace with your real-world business and manufacturing needs.



**NEW FROM VAPOR TECH**  
A Coating System Designed  
to Keep Pace with Real-World  
Manufacturing Requirements



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## High-Performance Coatings and the Business Flexibility You Need

**Cadence™ FLEX delivers configurations and features that meet your product requirements as well as the demands of your business**

The new Cadence FLEX systems from Vapor Tech address evolving market requirements, delivering a system that can deposit a variety of durable surface finishes efficiently. Applications requiring high-performance functional and durable-decorative surface finishes benefit from Vapor Tech's thin-film PVD (Physical Vapor Deposition) coatings. Cadence FLEX systems adapt to manufacturing workflow requirements and integrate efficiently into your manufacturing operations.

Traditional PVD batch coating systems interrupt the flow of your operations. Many are so application-specific that the equipment cannot adapt to changing market or project demands. Cadence FLEX systems are capable of applying many types of coatings to a variety of part types and geometries, giving you the flexibility to adapt to evolving manufacturing strategies.

Vapor Tech LTAVD Systems Deliver High-Performance Coating Solutions for Manufacturers Across a Variety of Industries and Applications



## The Systems

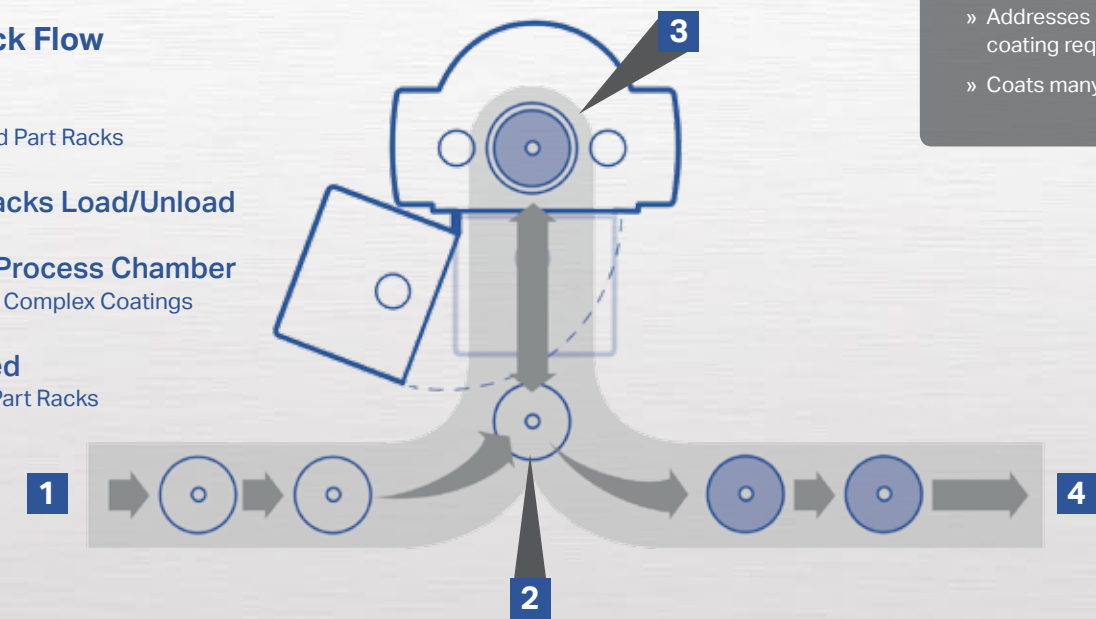
**Cadence™ FLEX — designed to keep pace with your real-world manufacturing requirements**

Cadence Flex systems offer a combination of small batch capacity and high speed, fulfilling coating requirements for job shops, tool coaters, and other businesses that need a responsive system scaled to fit their operations. Cadence Flex systems are the right solution for rapid turn, short lead-time, and custom production volume jobs.

Unlike many traditional coating systems, Cadence FLEX is capable of producing multiple coating types and combinations. A choice of coating technologies are available including clean-sputtered, highly-ionized arc-deposited, and RAAMS ultra-dense coatings, as well as PECVD. Cadence FLEX systems create the customized thin-films your products need.

### One-Rack Flow

- 1 Infeed**  
Uncoated Part Racks
- 2 Part Racks Load/Unload**
- 3 Batch Process Chamber**  
Simple & Complex Coatings
- 4 Outfeed**  
Coated Part Racks



## MEETING YOUR BUSINESS AND MANUFACTURING NEEDS

**Cadence™ coating systems are designed to work for you**

Cadence FLEX systems prove their value by fulfilling key requirements for successful integration and operation in your business.

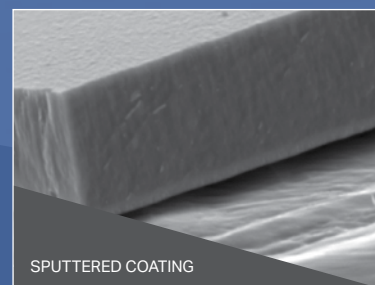
- » Rapid ROI — low cost of ownership
- » Predictable costs of operation
- » Easy to use
- » High utilization and availability
- » Simplified factory integration
- » Adapts to many operational scenarios
- » Addresses a wide range of coating requirements
- » Coats many part types

## VAPOR TECH™ COATINGS — THE RESULTS SPEAK FOR THEMSELVES

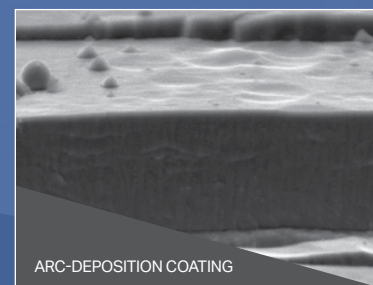
**A new category of high-performance PVD coatings from Vapor Tech**

Vapor Tech coatings are the result of years of research and development. The technology behind Vapor Tech coatings delivers desirable attributes including improved coating adherence, purity, consistency, toughness, and durability. Available only from Cadence FLEX systems, Vapor Tech coatings offer alternatives to techniques such as paint, flame spray, anodization, electroplating or other PVD processes.

Applications for Vapor Tech coatings include high-performance functional films required for specialized industrial applications such as tribological surfaces, high corrosion resistance, long lasting cutting surfaces, and high-end durable-decorative films for industrial and consumer products.



SPUTTERED COATING



ARC-DEPOSITION COATING

**Choose the right coating for the job with Cadence™ Coating Systems**

Cadence FLEX systems enable the deposition of simple or complex coatings with specific attributes. Choose magnetron sputtering, arc-deposition, and electron-fortified RAAMS to create coatings precisely tailored to fit your finishing needs.



RAAMS™ COATING

**RAAMS™ coatings are ultra-dense for superior performance**

For applications where smoothness, gloss, high-density, high substrate adherence, hardness, barrier characteristics and superior functional performance attributes are essential, RAAMS coatings are simply your best choice.

## EXCEED YOUR CUSTOMERS' EXPECTATIONS

Compared to generic surface finishing methods, Vapor Tech™ coatings demonstrate superior performance and appearance.

- » Denser, harder, tougher coatings
- » Increased corrosion-resistance
- » "Dimensionless" – does not obstruct critical dimensions
- » Optimum performance for cutting, abrasive or sliding friction applications
- » Perfect for high performance tooling and industrial machine applications
- » Vivid, accurate, stable metallic color palette
- » Smoother, higher gloss surface finishes without sacrificing durability and performance
- » Long-lasting finishes for decorative/consumer products