



Inline Thin Film Deposition Systems

The flawless performance you expect

From the most respected name in high vacuum deposition systems: Dynavac





Ingenuity That Drives Your Business Forward

Dynavac has been designing, manufacturing and supporting thin film deposition systems for over 30 years. Our customers are in a wide range of industries, but they share the same expectation: top-quality performance and consistent results, process after process, year after year.



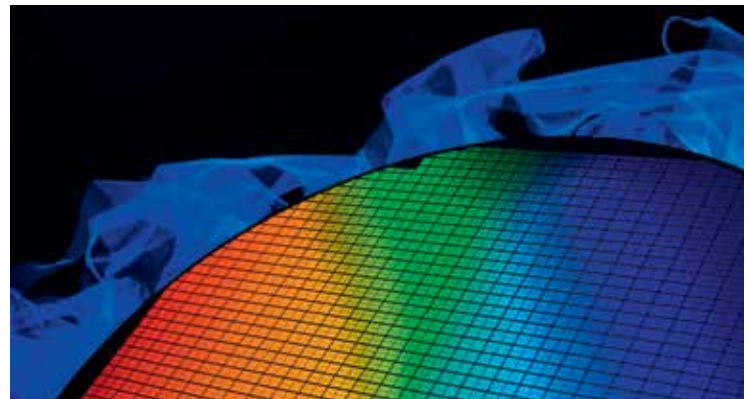
Maximum throughput. Consistent quality. Minimal downtime.

Dynavac's Inline systems offer the highest performance and lowest cost solution for a variety of thin film deposition requirements.

Engineering Expertise That Ensures Your Success

When you partner with Dynavac, you work directly with scientists and engineers with hands-on experience with your application.

- Perform initial process development and produce coatings to provide assurance before your equipment is delivered.
- Design and fabricate custom fixtures to meet your specific application needs.
- Provide flexible control system architecture customizable for your production requirements.

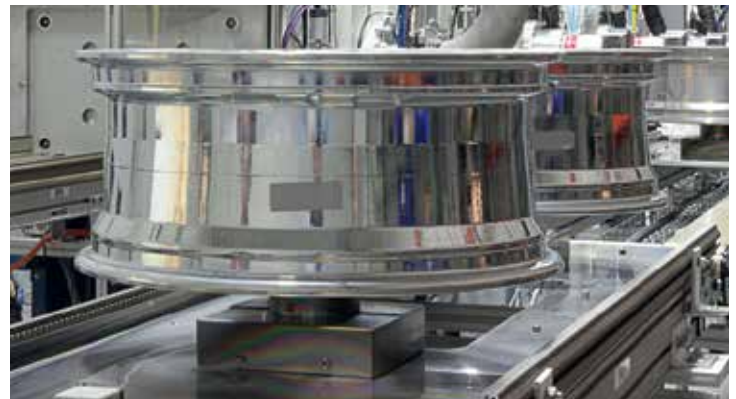


Inline System Features

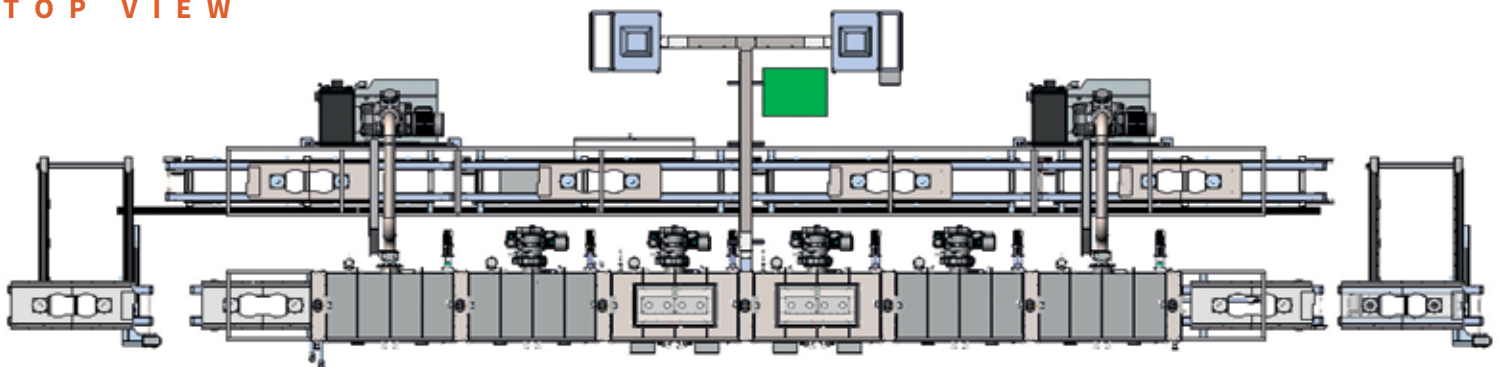
- Modular vacuum chambers for scalability
- Sputtering, evaporation, or ion-assisted deposition
- Fully automated production
 - Material handling systems
 - Integrated control systems
- Low cost of ownership
- Custom engineered fixtures to handle a wide range substrate types and sizes

Applications

- Anti-reflection coatings
- Transparent conductive-oxide coatings
- Substrate metalization
- EMI shielding coatings
- Decorative coatings
- Substrate pre-post treatments (Plasma and thermal)



TOP VIEW





Specifications

Vacuum Chamber

- Modular and flexible multi-chamber design
- High-duty chamber isolation valves

Material Handling

- Tray, pallet or roller based conveyor systems to accommodate a variety of substrate geometries
 - Flat/rigid
 - Flexible
 - Three dimensional
- Accurate control and sensing to ensure precise positioning throughout system

Pumping System

- High vacuum: cryopumps, turbopumps and diffusion pumps
- Rough: single or multistage mechanical pumps
- Water vapor pumping systems

Process

- Substrate treatment
 - Heat
 - Plasma
 - Cooling
- Deposition methods
 - Magnetron sputtering
 - Electron beam evaporation
 - Ion assisted deposition

System Control

- Fully automated system and process control
- Supervisory control system with HMI interface
- Enhanced data logging and trending capabilities
- Remote login feature
- Integrated quartz crystal monitoring
- Residual gas analyzer
- Plasma emission monitor

System Commissioning

- Systems fully assembled and tested prior to shipment
- Installation, start-up and post-installation support

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30 Years of Innovation