Press-Side® 4000SL Rapid Cycle Metalizer

SPECIFICATIONS:
- Stainless steel chamber with liners
- Chamber size: 813mm diameter x 1575mm height (32” x 62”)
- Coating zone: 710mm diameter x 1220mm height (28” x 48”)
- Matched mechanical, Roots, and diffusion pumping packages
- PLC controlled processing with industrial PC HMI option
- Dual water vapor cryotrap
- Redundant gauging with protected ports for accuracy
- DC or AC power supply option
- Remote communications link
- Fixturing design support

UTILITY REQUIREMENTS:
- Electrical: 400/480 VAC, 400 AMP, 3 Phase
- Water: 16 – 24°C (60 – 75°F)
  2.75 Bar (40 PSI) maximum pressure
  208 liters (55 gallons)/minute minimum flow
- Compressed air:
  6 Bar (87 PSI) minimum pressure
  9.4 liters/sec (20 cfm) minimum flow

The benchmark for performance in sputtered PVD films

Press-Side® 4000SL Rapid Cycle Metalizer

Precision.
Automation.
Consistent results.

Vergason Technology, Inc.
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VTI OFFICE LOCATIONS
Mumbai, India | Tokyo, Japan | Shanghai, China | Shenzhen, China | Monterrey, Mexico
São Paulo, Brazil | Krakow, Poland | Minneapolis, MN, USA | Van Etten, NY, USA

VTI INSTALLED EQUIPMENT CUSTOMER LOCATIONS
The PS4000SL is the global performance leader in Press-Side® Rapid Cycle Metalizing. VTI pioneered the concept of locating the smaller batch, rapid cycle sputtering system in synchrony with the injection press. This innovation reduces scrap from excessive part holding, and improves part quality due to the superior film characteristics of magnetron sputtering. The current third-generation system incorporates the latest technical advances while preserving the ease of use and maintenance that made the PS4000SL the best selling system of its kind in the world.

VTI engineered the PS4000SL to master the rigorous demands of continuous high-volume production. The two-door chamber configuration allows one door-mounted part fixture to be loaded and unloaded outside the chamber, while the other door-mounted fixture is undergoing the metalizing process. Major components are designed for easy access, simplifying routine preventative maintenance.

Our modular design concept allows us to quickly modify the PS4000SL configuration to meet your specific requirements. Select manual or automated door operation, choose from different pump manufacturers, robotic interface configurations, and even select a preferred programmable logic control or industrial PC. Working one-on-one with each client, the VTI team custom engineers each system to your precise specifications.

Features

- **High Performance Components:** Each PS4000SL is built using proven industry-leading components.

- **Rapid Cycling:** Exceptionally fast processing cycles are achieved using the finest pumping components coupled with the unique concept of power venting, which utilizes pressurized desiccant-dried air to vent the chamber. The optional environmentally-controlled enclosure at the load/unload station will further improve throughput in humid conditions.

- **Multiple Processes:** Each system offers the ability to sputter a variety of metals, while incorporating plasma etching and plasma polymerization of base and top coats. The user can select any sequence depending on the application.

- **Monoframe Design:** Our modular monoframe design provides fast, efficient installation and integration into your existing and future factory floor layouts.

- **Open Architecture:** Designed with operator and maintenance access in mind, the PS4000SL allows quick and easy visual and mechanical access to all key system components. Elimination of unnecessary decorative panels creates an open route for maintenance and inspection activities.

- **Start-to-Finish Integration:** Our technical support portfolio includes installation, operator training, process engineer training, Internet based service access, troubleshooting, and fast on-site assistance.

Benefits

- **Engineered Integrity:** Your technicians, engineers and customers can depend on the PS4000SL for many years of reliable service.

- **Minimized Down-Time:** User-focused design provides easy access to all components, minimizing down time for routine maintenance.

- **Versatility:** Capable of sputtering a wide range of base metals and alloys.

- **Process Efficiency:** Our breakthrough Press-Side® concept streamlines the production flow while reducing scrap rates by up to 10 times.

- **Environmentally Friendly:** PVD systems are the most "green" of the performance coating technologies, creating virtually no effluents or hazardous wastes.

- **Easy Access:** Innovative design allows for superior performance and easy access to key components.

Premium coating performance defined.

Call or visit us online:

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Superior Engineering

When you purchase a Vergason Technology coating system you benefit from over twenty years of engineering refinement. Built into each system is the know-how that can only be achieved by designing, manufacturing, installing, and operating hundreds of vacuum coating systems across the globe.

Customer support begins even before we receive your order. We take the time to understand your requirements and configure your system exactly as you need. Our field service engineers install the system and ensure it performs as expected. With all new systems, we train your operators and maintenance technicians, as well as providing detailed documentation.

Our technical expertise extends to process development and applications support. The PS4000SL can be configured with multiple coating process sequences to operate in fully automatic modes, or can be user-configured in the field. Our applications engineering team will work side by side with you to develop the optimum processes for your application.

Durability and robust continuous operation are hallmarks of Vergason Technology equipment. To ensure peak performance, our remote communications link allows our engineers to perform trouble-shooting diagnostics and make program modifications to your PS4000SL without being on-site. If you ever need field service, our engineers are on call in several locations across the globe and can be rapidly deployed to your facility.

Superior engineering coupled with top quality support has earned Vergason Technology a reputation for creating the most durable high-performance PVD coating system on the market.

Robust Interface:
VTI software and HMI allows for quick access to key system information through a familiar OS interface.
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