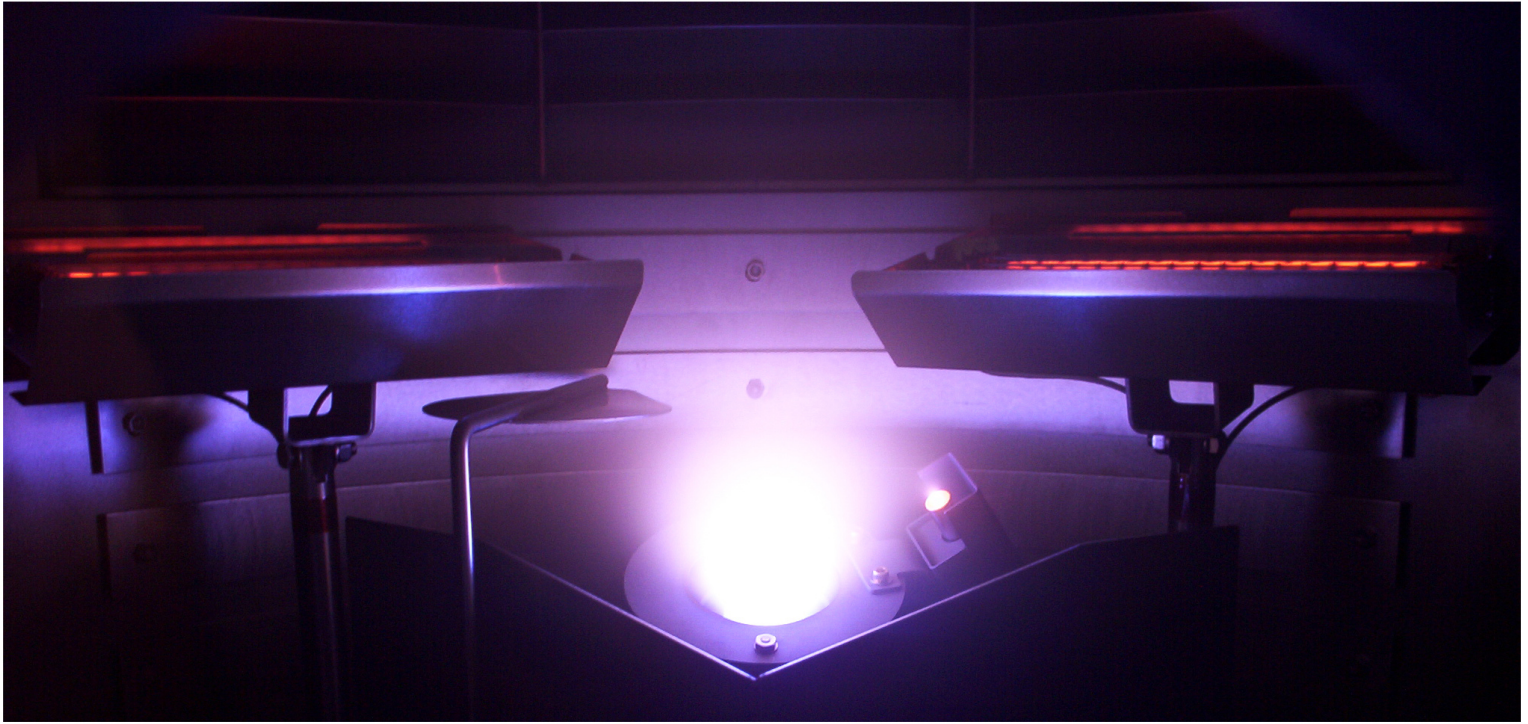




OPTIPRO™ SERIES

High Performance
Optical Coating Systems

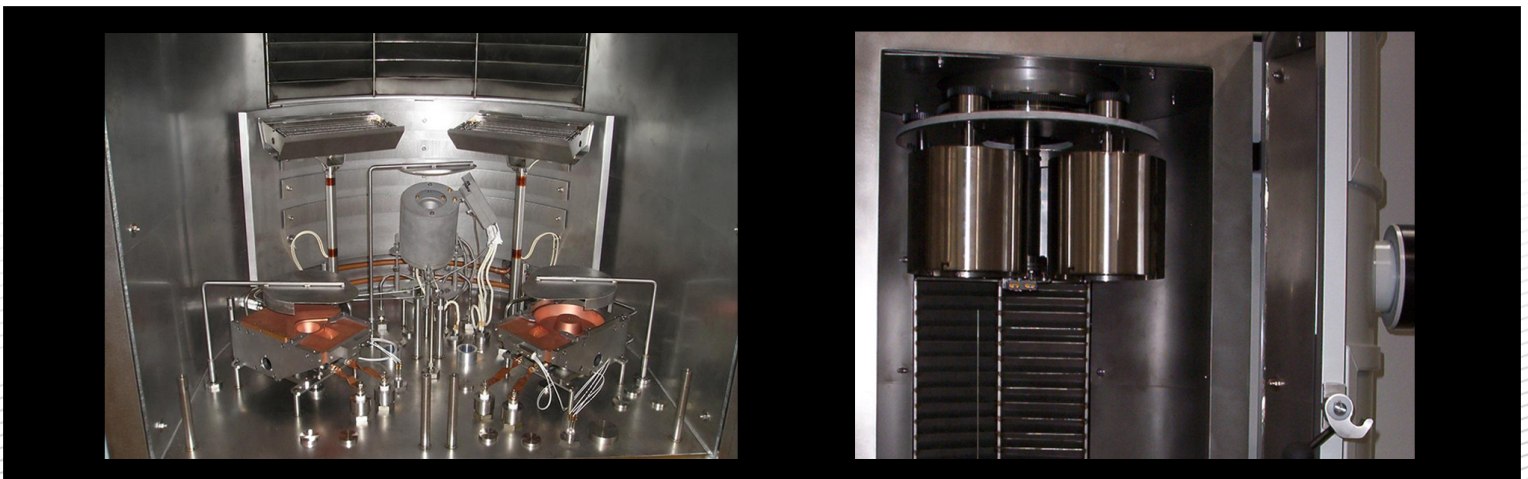


Mustang manufactures the most reliable systems on the market. Mustang's OptiPro™ Optical Coating Systems are designed for customization and ease of operation, offering the ability to produce complex multi layer coatings with unparalleled quality control, run after run. Mustang equipment offers higher throughput, with over 90% uptime, so our customers can stay focused on meeting their production demands.

MUSTANG OPTICAL SYSTEMS FEATURE:

- High Quality, Consistent, Recipe-Controlled Systems
- Extensive Thin-film Process Capabilities
- Customization Options to meet your specific needs
- Training for both operators and maintenance personnel

Mustang's OptiPro series vacuum coater series sets the industry benchmark for production and R&D. This diverse system produces excellent coatings at extremely competitive deposition rates and is also available in special configurations for infrared (IR) and ultraviolet (UV) wavelength regimes or can be configured to complex configurations for more demanding coatings.





SPECIFICATIONS

SYSTEM DIMENSIONS

Width: 84.0 inches (2.133 m)

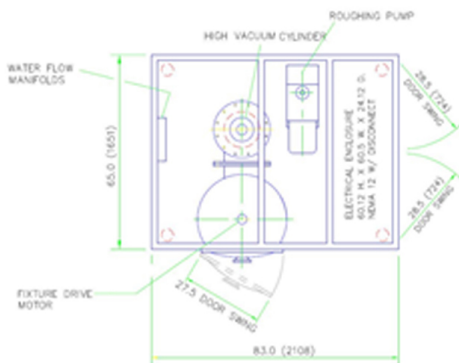
Depth: 72.0 inches (1.828 m)

Height: 87.0 inches (2.209 m)

Weight: 5000 pounds

PLANETARY CONFIGURATION

- Dual axis rotation
- Five (5) 8" diameter planets.
- Other configurations available upon request

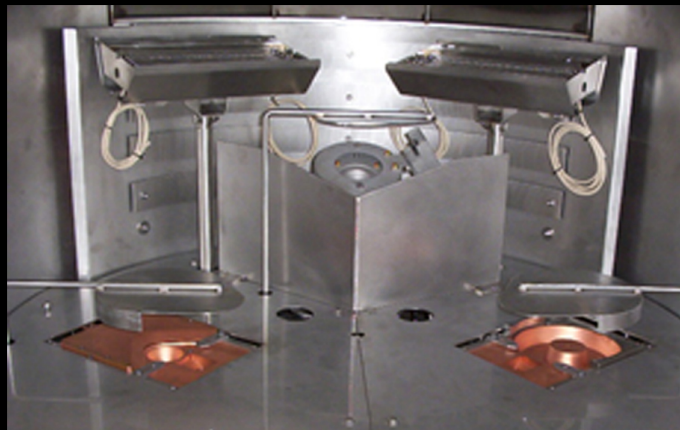


DEPOSITION SOURCES AND MONITORING

- Multiple electron beam gun configurations available
- Single or multiple pocket designs
- Electronic crucible indexing
- Electronic Sweep Control
- 6-15kW power supplies available in either tetrode tube/DC or AC.
- Ion source for pre-cleaning/etch & deposition assist.
- All sources include shutters.
- INFICON deposition controllers with quartz crystal monitor

PUMPING PACKAGES

- Brooks/CTI Cryopump
- Turbomolecular
- Diffusion pumped with Meissner trap
- Either wet or oil sealed mechanical pumps





BENEFITS

- MVS OptiPro Control System comes from over 35 years experience
- First in the "Plug-in-Play" of precision optics
- Modular layer format allows the highest flexibility in optical coating design
- Process and Equipment Logging
- Cleanroom Inspired Footprint
- Ergonomically designed to reduce fatigue
- Network compatible for real-time monitoring, diagnostics or system upgrades
- Flexible component options
- Mustang Reliability
- Made in USA

SERVICE & SUPPORT

Mustang Vacuum Systems and our global service partners provide onsite installation, repair service, preventative maintenance, applications and service training. OptiPro series systems come standard with a dedicated VPN or analog telephone connection, allowing Mustang's service and support team to remotely diagnose and resolve any problems. We are available to provide support for your system 24/7.

COMMON APPLICATION AREAS

- Anti-Reflective coatings
- Anti-Fingerprint coatings
- Enhanced reflectors
- Infrared films
- Hot mirrors
- Cold mirrors
- Laser ablation mirrors
- Dichroic filters
- Bandpass filters