

# We engineer solutions.

At PVI, we're beyond merely capable.  
We're problem-solvers.

**Materials processing systems engineering & integration**

Leading edge engineering | Superior manufacturing

High quality workmanship | Complete turnkey solutions



**PVI delivers custom turnkey systems and provides ongoing support for our products, worldwide.**

# Proven

materials processing & system integration

# solutions.

## We Build Solutions

PVI is a system engineering and manufacturing company specializing in high vacuum and thermal process technologies.

### Experienced

Our world-class technical, engineering and manufacturing capabilities give us the lead in several areas of vacuum process technology. A large percentage of the systems that we manufacture are custom designed for unique applications. PVI delivers turnkey systems and provides ongoing support for our products, worldwide.

Since 1981, PVI engineers and technical staff have successfully designed and manufactured a wide variety of automated vacuum processing systems for the photovoltaic, flat panel display, semiconductor, aerospace, high purity material and other challenging industries.

### Innovative

We have developed processing systems for opto-electronic devices such as photovoltaics, fiber optics, interference filters, and aircraft canopies. We design and build equipment and systems that are used throughout the world in a range of demanding industries, from semiconductors to solar panels to rotating grade titanium. Our team has the experience and knowledge to develop high-quality solutions to match your unique process requirements.

## High Temperature Vapor Transfer Equipment

### Making Connections.

Success in the world of vacuum distillation process (VDP) technology depends on the quality of the connection. Creating that connection is the heart of the process. It is the most complicated piece of the technology and means the difference between success or failure.

At PVI, we have been making that connection for years, where it has mattered the most.

PVI has been involved with every major project in titanium or zirconium since the early 1990s. We have

helped make the connections, keep the connections clean, and maintain the components. What makes us unique is

that we have a team that has designed, built, and operated

major vacuum distillation processing plants. Our people understand your process, inside and out.





# Unmatched

technical, engineering, and manufacturing

# capabilities.

## Thermal Diffusion Systems

PVI designs and manufactures thermal diffusion systems for large area CIGS photovoltaic device processing. PVI's thermal diffusion systems are designed and manufactured to have a high degree of reliability, safety and flexibility.



## Thin Film Deposition

**In-Line, Batch and Load-Lock System**

**Technology for Demanding Applications.**

PVI designs and manufactures leading-edge thin film deposition systems for the solar, aerospace and high purity materials processing industries.

- ❖ **Multi-Source Electron Beam Evaporation System**  
The Multi-Source Electron Beam Evaporation System is designed as a versatile, high production coating system.
- ❖ **Ion Plating System**  
The BAE ion plating system is designed to be reliable, easy to use and provide high performance optical coatings.
- ❖ **Laser Sealing & Ablation**  
PVI designs and builds a versatile laser processing system that can be configured for various laser sealing, cutting and ablation applications.
- ❖ **UHV Bakeout Systems**  
PVI's High Temperature Vacuum Bakeout Systems are designed as a bell jar type system and can be configured with independent high and rough vacuum pumping systems.
- ❖ **Sputtering System**
- ❖ **CVD/MOCVD**



# Problem solved.

Bring us your most intense materials processing and handling challenge and we will engineer an integrated solution using the latest innovations in high vacuum and thermal process technologies.



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