

# Pressure Technology, Inc.

# The Leader in Hot Isostatic Pressing

- **Castings**
- **Powders**
- **Ceramics**
- **Super Alloys**
- **Bonding**

## ENHANCING MATERIAL PROPERTIES SINCE 1977

### ■ THE EQUIPMENT

PTI has nine production units in operation, with pressure capabilities up to 30,000 PSI and temperatures up to 2550 °F (see reverse side for equipment specs). PTI matches the equipment to the job for optimum processing efficiency. With a rigid maintenance program and back-up inventory of critical components, customers can count on a 99% uptime.

### ■ GAS PURITY

Virgin Argon gas is used in every HIP cycle. Additionally, gas chromatograph samples are taken at set locations in the process cycle to ensure the purity of the gas and the quality of the customers' parts.

### ■ PRECISE PROCESS CONTROL

Computer-controlled equipment provides stringent control of every HIP cycle. HIP processing is both repeatable and reliable, ensuring consistent quality. The PTI system provides accurate measurement of temperature and pressure that is continuously recorded for process traceability.

### ■ RIGID QUALITY CONTROL

PTI maintains a comprehensive quality control program meeting ISO 9001 and AS9100 standards, ensuring compliance with all customer requirements. Training, maintenance, instrument calibration, process control and documentation are closely monitored, continuously improved and updated.



### SERVICE

PTI is a highly responsive company staffed by core personnel with extensive experience in the HIP industry. PTI staff works to achieve the highest levels of customer satisfaction of quality, turnaround and pricing.

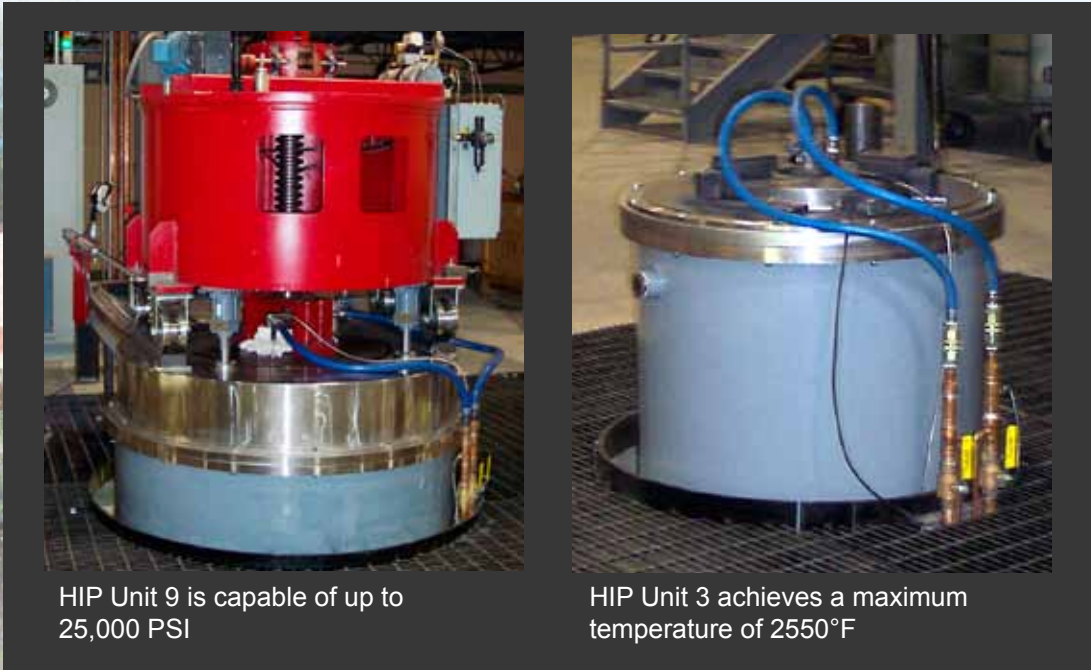
**APPLICATIONS:**  
Casting Densification  
Powder Metallurgy  
Diffusion Bonding  
Ceramics Consolidation

**MATERIALS:**  
Steel • Titanium  
Cobalt Chromium Alloys  
Aluminum • Ceramics  
Nickel Superalloys

**INDUSTRIES SERVED:**  
Aerospace • Power Generation  
Wear & Tool Parts  
Medical Prosthesis  
Computers & Electronics



# Pressure Technology Equipment Specifications



HIP Unit 9 is capable of up to 25,000 PSI

HIP Unit 3 achieves a maximum temperature of 2550°F

## WARMINSTER, PA

Unit	Diameter	Length	Maximum Temperature	Maximum Pressure
HIP2	16" (405 mm)	44" (1115 mm)	2550° F (1400° C)	15,000 PSI (103 MPa)
HIP4	20" (505 mm)	60" (1520 mm)	2550° F (1400° C)	30,000 PSI (207 MPa)
HIP5	30" (760 mm)	70" (1780 mm)	2450° F (1340° C)	25,000 PSI (170 MPa)

## CONCORD, OH

Unit	Diameter	Length	Maximum Temperature	Maximum Pressure
HIP3	16" (405 mm)	44" (1115 mm)	2550° F (1400° C)	15,000 PSI (103 MPa)
HIP6	30" (760 mm)	92" (2335 mm)	2450° F (1340° C)	25,000 PSI (170 MPa)
HIP7	30" (760 mm)	92" (2335 mm)	2450° F (1340° C)	25,000 PSI (170 MPa)
HIP8	30" (760 mm)	92" (2335 mm)	2450° F (1340° C)	25,000 PSI (170 MPa)
HIP9	30" (760 mm)	92" (2335 mm)	2450° F (1340° C)	25,000 PSI (170 MPa)
HIP10	30" (760 mm)	108" (2740 mm)	2450° F (1340° C)	25,000 PSI (170 MPa)

**All PTI units use molybdenum furnaces and virgin argon atmosphere.**

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