

# Pressure Technology, Inc.

# The Leader in Hot Isostatic Pressing

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



## ENHANCING MATERIAL PROPERTIES SINCE 1977

### ■ THE EQUIPMENT

PTI has thirteen production units in operation, with pressure capabilities up to 30,000 PSI and temperatures up to 2550 °F (see reverse side). 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

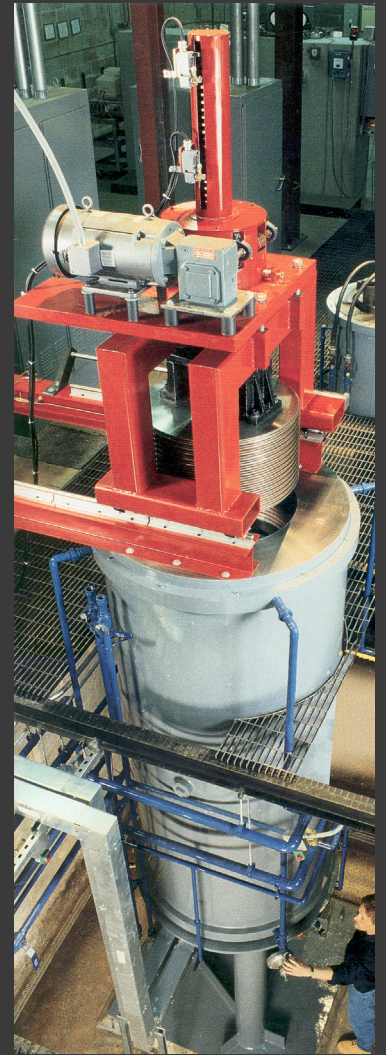
Virgin Argon gas is used in every HIP cycle. Additionally, gas chromatograph samples are taken at set locations in the process cycle to ensure the purity of the gas and the quality of the customers' parts.

### ■ 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, AS9100 and Nadcap 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  
Additive Manufacturing  
Diffusion Bonding  
Intermetallics

#### MATERIALS:

Steel • Titanium  
Cobalt Chromium Alloys  
Aluminum • Magnesium  
Nickel Superalloys  
Ceramics • Composites

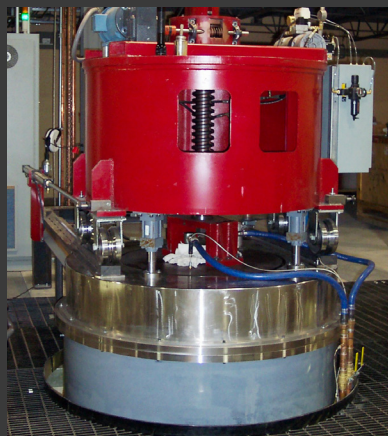
#### INDUSTRIES:

Aerospace • Automotive  
Biomedical  
Electronics  
Industrial • Oil & Gas  
Power Generation



PRESSURE TECHNOLOGY, INC.

# 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)	42" (1068 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)
HIP12	30" (760 mm)	105" (2667 mm)	2450° F (1340° C)	25,000 PSI (170 MPa)

## CONCORD, OH

Unit	Diameter	Length	Maximum Temperature	Maximum Pressure
HIP3	16" (405 mm)	42" (1068 mm)	2550° F (1400° C)	15,000 PSI (103 MPa)
HIP6	30" (760 mm)	90" (2285 mm)	2450° F (1340° C)	25,000 PSI (170 MPa)
HIP7	30" (760 mm)	90" (2285 mm)	2450° F (1340° C)	25,000 PSI (170 MPa)
HIP8	30" (760 mm)	90" (2285 mm)	2450° F (1340° C)	25,000 PSI (170 MPa)
HIP9	30" (760 mm)	90" (2285 mm)	2450° F (1340° C)	25,000 PSI (170 MPa)
HIP10	30" (760 mm)	105" (2667 mm)	2450° F (1340° C)	25,000 PSI (170 MPa)
HIP11	30" (760 mm)	105" (2667 mm)	2450° F (1340° C)	25,000 PSI (170 MPa)

## ALACHUA, FL

Unit	Diameter	Length	Maximum Temperature	Maximum Pressure
HIP14	30" (760 mm)	90" (2285 mm)	2450° F (1340° C)	25,000 PSI (170 MPa)
HIP15	30" (760 mm)	105" (2667 mm)	2450° F (1340° C)	25,000 PSI (170 MPa)

All PTI units use molybdenum furnaces and virgin argon atmosphere.

[www.pressuretechnology.com](http://www.pressuretechnology.com)  
[info@pressuretechnology.com](mailto:info@pressuretechnology.com)



Pressure Technology, Inc.  
 415 Patricia Drive  
 Warminster, PA 18974  
 Phone (215) 674-8844

Pressure Technology of Ohio  
 7996 Auburn Road  
 Concord, OH 44077  
 Phone (440) 352-0760

Pressure Technology of Florida  
 13451 NW 104th Terrace  
 Alachua, FL 32615  
 Phone (386) 518-0502

