

Pressure Technology, Inc.

The Leader in Hot Isostatic Pressing

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

ENHANCING MATERIAL PROPERTIES SINCE 1977

■ THE EQUIPMENT

PTI has eleven 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

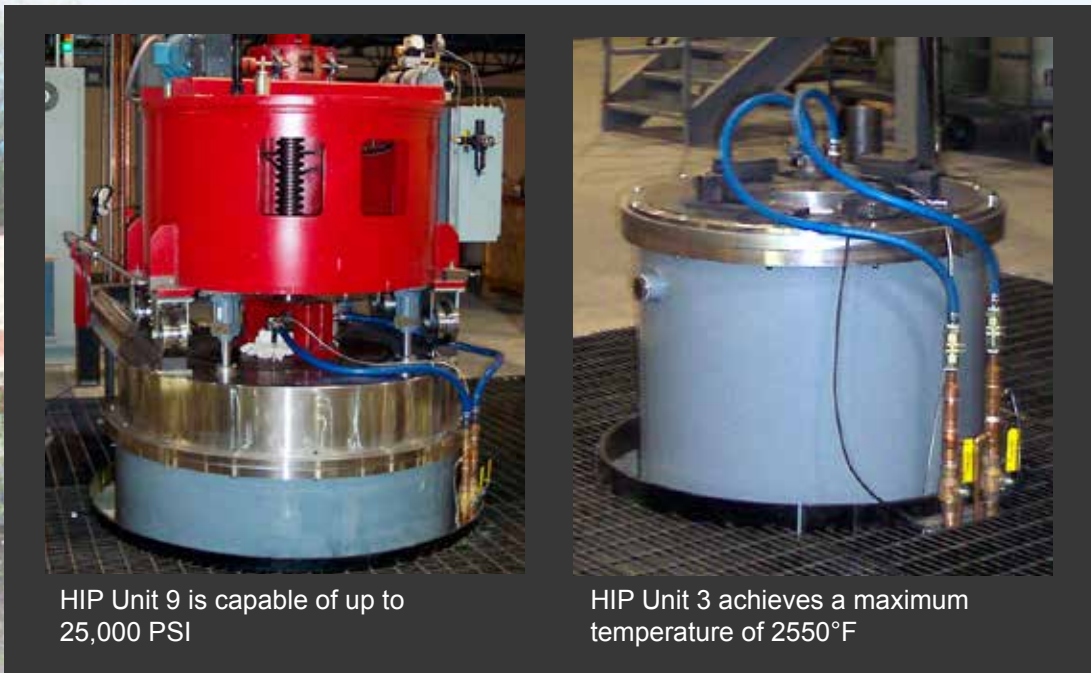
INDUSTRIES:

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) | 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) |
| HIP12 | 30" (760 mm) | 108" (2740 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) |
| HIP11 | 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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