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.

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.

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

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.
Pressure Technology Equipment Specifications

<table>
<thead>
<tr>
<th>Unit</th>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Maximum Temperature (°F/°C)</th>
<th>Maximum Pressure (PSI/MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIP2</td>
<td>16 (405)</td>
<td>44 (1115)</td>
<td>2550° F (1400° C)</td>
<td>15,000 PSI (103 MPa)</td>
</tr>
<tr>
<td>HIP4</td>
<td>20 (505)</td>
<td>60 (1520)</td>
<td>2550° F (1400° C)</td>
<td>30,000 PSI (207 MPa)</td>
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<tr>
<td>HIP5</td>
<td>30 (760)</td>
<td>70 (1780)</td>
<td>2450° F (1340° C)</td>
<td>25,000 PSI (170 MPa)</td>
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<tr>
<td>HIP12</td>
<td>30 (760)</td>
<td>108 (2740)</td>
<td>2450° F (1340° C)</td>
<td>25,000 PSI (170 MPa)</td>
</tr>
</tbody>
</table>

**Concord, OH**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Maximum Temperature (°F/°C)</th>
<th>Maximum Pressure (PSI/MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIP3</td>
<td>16 (405)</td>
<td>44 (1115)</td>
<td>2550° F (1400° C)</td>
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</tr>
<tr>
<td>HIP6</td>
<td>30 (760)</td>
<td>92 (2335)</td>
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</tr>
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<td>HIP7</td>
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<tr>
<td>HIP8</td>
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<td>2450° F (1340° C)</td>
<td>25,000 PSI (170 MPa)</td>
</tr>
<tr>
<td>HIP9</td>
<td>30 (760)</td>
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</tr>
<tr>
<td>HIP10</td>
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<td>108 (2740)</td>
<td>2450° F (1340° C)</td>
<td>25,000 PSI (170 MPa)</td>
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<tr>
<td>HIP11</td>
<td>30 (760)</td>
<td>108 (2740)</td>
<td>2450° F (1340° C)</td>
<td>25,000 PSI (170 MPa)</td>
</tr>
</tbody>
</table>

All PTI units use molybdenum furnaces and virgin argon atmosphere.

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