

# Custom Press

## Special Purpose Compression Presses

At PHI, we understand that special applications require special features that are not offered in the standard PHI hydraulic presses. For these special applications, we have developed features such as nickel alloy platens for temperatures up to 1,200 degrees Fahrenheit, special heaters for heat rise up to 50 degrees Fahrenheit a minute and exhaust hoods for removing out gassing and many others. We solicit your special applications in order to provide you with customized, special purpose compression presses that will fit your specific needs.

Over the years, we have developed this research and development laboratory press to handle special purpose pressing needs. Standard Features of Special Purpose Compression Presses  
The standard features of PHI's special purpose compression presses include:

- Microprocessor based program controller for programming temperature and pressure.
  - Digital display of platen position
  - Bimodal temperature controllers for heating and cooling
  - Programmable cooling rates
  - Programmable logic controller (PLC)
  - Over temperature protection
  - Multiple-zone platen temperature control
- Optional Features of Special Purpose Compression Presses  
The optional features of PHI's special purpose compression presses include:

- Vacuum chamber enclosing pressing area
- Digital display of pressure
- Heater status indicating lights
- Exhaust hoods
- Computer interface
- Special platens for up to 1,200 degree Fahrenheit operation
- Photocell actuated limit switches
- Safety gate with light curtain
- Double-acting cylinder
- Multiple openings
- Temperature and pressure vacuum recorder