

HEATED PLATEN PRESSES

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The increased popularity of thermoformed parts has driven demand for hydraulic presses integrated with heated platens. Once reserved for the Aerospace industry, the process of using heat and pressure to produce various parts can now be found throughout the manufacturing world.



Heated Platen Press Configurations

Beckwood's Heated Platen Presses are available in a variety of sizes and configurations, as each is designed to meet the needs of the individual customer. Press size, tonnage, cycle parameters, heat specifications, and the level of control sophistication are all designed to maximize the customer's manufacturing process. Beckwood's heated platen presses are engineered to dwell under pressure, providing a tight fluctuation of the holding force for pre-determined periods of time.



Control options range from a standard PLC system with LED displays to Beckwood's Productivity Package, which features an Allen Bradley Versa View Touchscreen with programmable cycle parameters, jobs storage & recipe handling capability. Temperature accuracy can be controlled with a basic single zone controller or a more robust multiple zone system for increased temperature uniformity across the heated platen.



LED Display Control



Multi-Zone Programmable Control



Additional features such as platen cooling systems and multiple stacked platens, for increased productivity, can be incorporated into a fully integrated press system.

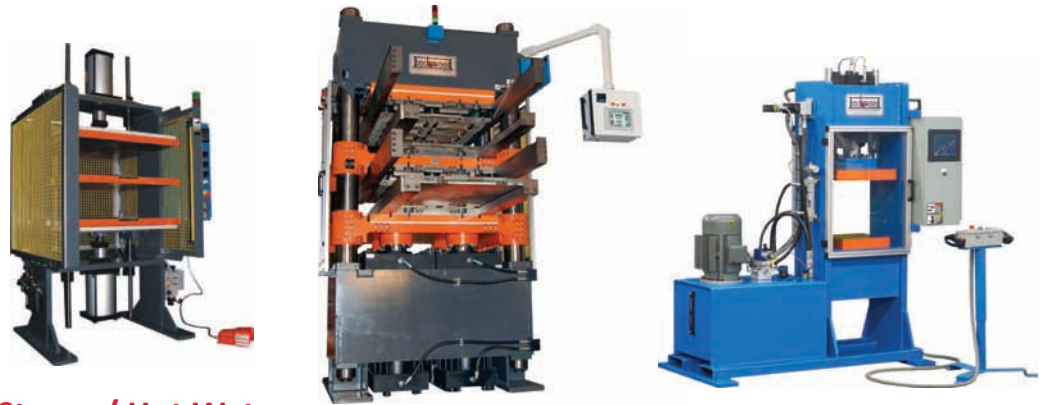


Heating Methods

Several heating and cooling methods are available per the customer's specification. These methods include: electric heating rods, steam/hot water, and hot oil. The optimal choice is contingent upon each customer's specific application requirements. The heating/cooling parameters for each method can be controlled using a manual or programmable control system.

Electric Rods

- Fast heat-up/recovery times
- Maximum operating temperature $\sim 1,200^{\circ}\text{F}$ dependent on press insulation space
- Single or variable watt heaters available
- Beckwood's Versa-Zone Controller Technology provides independent control of multiple heating/cooling zones per platen for greater temperature uniformity

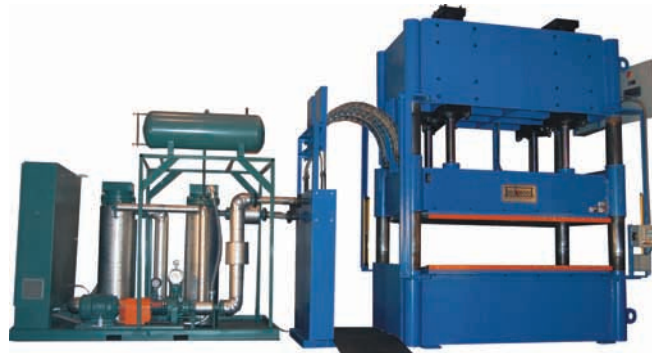


Steam / Hot Water

- Accurate heating ($\pm 5^{\circ}\text{F}$) to a maximum temperature of $\sim 400^{\circ}\text{F}$
- Serpentine cooling circuits available with adjustable water valving for cooling following the heat cycle
- Corrosion prevention features reduce expedited corrosion due to environmental conditions

Hot Oil

Comparable temperature distribution accuracy to Steam/Hot Water systems ($\pm 5^{\circ}\text{F}$), with an increased maximum operating temperature to $\sim 700^{\circ}\text{F}$



Turnkey Integration Solutions

Beckwood Press will apply its heated platen press experience to engineer the perfect press for your application. We will provide a turnkey solution including the press, heated platens and integrated controls, all based on your application's specific requirements.

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