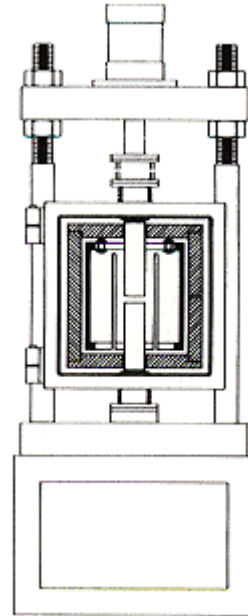


PRESSMASTER

Pressmaster uniaxial hot press systems are designed for simultaneous application of high temperatures and high pressures. Primary applications include densification of powdered materials, diffusion bonding of solid components, and processing of fibrous composites.

Each Pressmaster is supplied as a complete system including: vacuum chamber, hydraulic press and frame, graphite heat zone, power supply, mechanical vacuum pump, and a programmable control system. Available options include: interchangeable heat zones, high vacuum pumps, data recorders, hot ejection, and load cells.



Die or Platen Max Dimensions (inches)	Press Capacity Standard (tons)	Ram Travel (inches)	Ram Diameter (inches)	Model Number
18?by 12	200	6	6	1812
12?by 12	100	6	4	1212
8?by 12	50	6	3	812
6?by 10	50	6	3	610
20?by 20	100	8	5	2020

Other sizes available as well as 10 and 25 ton laboratory units

INTERCHANGEABLE HEAT ZONES

Each Pressmaster furnace will accept four different heat zones which are easily interchanged. All internal components (including heating element, insulation, and power feedthroughs) are mounted on the front and rear vacuum chamber doors. To change zones, simply disconnect the power leads, remove the doors from their hinges, and replace with alternate door/heat zone assemblies. Both doors and the main chamber are fabricated from double-walled carbon steel with internal baffling for efficient water cooling. Stainless steel doors and chambers are available for areas with poor water quality which could accelerate corrosion or when the ultimate high vacuum performance is required.

HEATING ELEMENT	Graphite	Tungsten Mesh	Molybdenum Mesh	Molybdenum Disilicide
INSULATION	Graphite Fiber	Radiation Shields	Radiation Shields	Ceramic Fiber
ATMOSPHERE	Vacuum, Inert	Vacuum, Inert	Vacuum, Inert	Air
OPERATING TEMP.	2200 蚓	2000 蚓	1500 蚓	1500 蚓
MAXIMUM TEMP.	2500 蚓	2200 蚓	1700 蚓	1600 蚓

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