

THERMEX THERMATRON®

AUTOMOTIVE CARPET PAD WELDING SYSTEM

Thermex Thermatron, LP introduces its state of the art computer controlled Automotive Carpet Pad Welding System. This heavy duty, industrial grade unit is designed and built in accordance with the rigorous performance requirements of today's automotive industry. The system can perform multiple pad seals (heel, toe and scuff) in a three dimensional configuration over a range of pad sizes on a 24 hour/7 day a week operation basis.

The system incorporates the latest in both PLC and radio frequency technology by providing loading and sequential sealing of all pads, without the need to reload the carpet. The RF output circuit is designed to provide maximum flexibility to accommodate a large variety of carpet configurations.



Features:

- An **Allen Bradley PLC** automatically tunes and monitors process parameters during each welding cycle
- An SCR controller directs plate voltage providing greater flexibility
- Maximum output power adjustable up to 40kW
- Two opposing shuttles for maximum productivity
- Heavy duty four (4) post style construction
- Industrial grade pneumatic press with precision guide system
- Designed to provide up to ten (10) tons of force on each load
- Independently operated, double shuttle system powered by electric motor
- Two (2) operator stations
- Four (4) quadrant control acceleration, deceleration and braking
- Indexes into bonding area within five (5) to six (6) seconds

Let Us Build One For You



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SAFETY :

Safety is, of course, a primary concern to **Thermex Thermatron**. For operator safety, the system is provided with cutting edge shielding for RF radiant energy and full shuttle and press opening light curtain protection. All other press and shuttle areas that potentially expose the operator to moving parts or pinch points are covered with expanded metal guards. Additionally, the system is equipped with hydraulic counterbalance to prevent the press platen from falling in the event of pneumatic failure. Special press open safety posts are provided as well to prevent the press from closing during maintenance.

SPECIFICATIONS:

RF Generator

Power Input	480 VAC, 60 Hz, 3-phase, 62 KVA
Power Output (Adjustable)	Up to 40kW, Continuous Duty
Operating Frequency	27.12 MHz Nominal
Arc Detection	Patented AS-5 Electronic Arc Suppressor
Cooling	Air
Controls	115 VAC/24 VDC

Press and Shuttle System

Maximum Carpet Size	97" long 87" wide 15" high
Press Type	Four Post Down Acting Pneumatic
Maximum Pressure (Adjustable)	10 Tons
Total System Size	25.6" long 9.2" wide
Die Temperature Control	Closed Loop Water Cooled

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