



**Our Compact, High Efficiency Welder -
Ideal for Retrofitting**

Solid State Welders for Tube & Pipe Producers

Thermatool's innovative approach to HF welded tube and pipe.



Solid State Welders

Beginning with the introduction of its' first solid state welding unit in 1986, Thermatool continues to be the preferred supplier of state-of-the-art solid state welding units with over 1200 units operating worldwide.

Thermatool offers a worldwide source for the finest equipment and the most dependable and responsive aftermarket sales support available. As it continues to pioneer the development of innovative solid state technology, all of Thermatool's activities are focused on achieving higher efficiencies and enhanced productivity for tube and pipe producers worldwide.

Thermatool's latest innovation, the Height Efficiency Series Welder, offers a compact design, resilient construction and enhanced efficiency.

Compact single cabinet design delivers:

- A high efficiency rating of 85% to meet the ever increasing worldwide electrical energy standards.
- Simple compact design in a single cabinet. Ideal for quickly retrofitting or existing mills when replacing older vacuum tube welders.
- High-frequency, high-power capacitor bank delivers stable power with low voltage to minimize arc-overs and enhance reliability.
- Short circuit, damage-proof CFI power supply technology ensures reliable operation through coil arc-overs, minimizes trip-outs and is not damaged by short circuits.
- Water-cooled, high frequency module pairs minimize total power loss in case of module fault and reduces time required for maintenance. Units are supplied with 50kW module pairs.



Thermatool's compact, single cabinet design makes the welder easy to install and ideal for retrofitting on existing mills.



- All doors are fitted with lift-off hinges for easy access.
- Power supply is completely sealed with high quality gaskets, thus eliminating contamination.
- Wide coil-to-tube clearance allows for easy mill threading and extended coil life.
- Protective cover keeps weld leads clean of mill scale and welding debris.
- Compact, efficient and rugged high output MOSFET power modules cleanly convert DC voltage to high frequency AC voltage. Modules are 50kW pairs.
- Matching feature helps weld a wide range of products.
- Low ripple DC filter reduces any AC component ricing on the DC line, producing a smoother output resulting in high quality welds with minimum ID and OD weld beads reducing wear on scarfing tools and downtime.

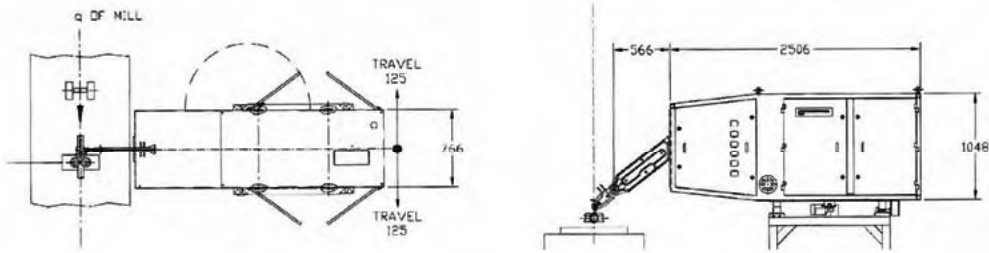
High Efficiency Series Advantages

- Simple and rugged SCR power control provides excellent speed and power control during mill start-up.
- Control cards accurately control the output of the welder through changing load conditions, safety allowing the system to ride through normal output arcs and sparks, while shutting down in the case of major out put short or open circuit conditions occur.
- Circuit breaker protection and relay logic for simplified controls aid in trouble shooting and maintenance. Thermatool high efficiency welders are simple to maintain and keep operating reliably.
- Thermatool's main control board conveys operating status with easy to read LED indicators allowing for safe start-up and shut down under both normal and fault conditions.
- Standard Speed/Power control simplifies operation, significantly reduces scrap, and greatly reduces open seam tube through the accurate control of weld power in relation to mill speed at start-up and ramp down.
- Optional air cooled transformer eliminates leaks, and inflammable or other problems associated with liquid cooled designs.





Thermatool High Efficiency Series Welder Layout



Dimensions:

Single Cabinet Unit					Optional Power Supply		
kW Size	Measure	Width	Length	Height	Width	Length	Height
100 - 300	inch	26	97	41	34	60	71
	mm	664	2510	1050	860	1560	1800

Single Cabinet Welder Specifications

Power Rating	100, 150, 200, 250, 300
Frequency	300
Applications	Round, Oval, Square, Rectangle, Special Shapes
Materials	Carbon & Alloy Steels, Stainless Steels, Copper, Brass, Aluminum



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