



**THERMATOOL**
An Inductotherm Group Company

HAZControl Technology™

Thermatoool Solid State Welder



- HAZControl Technology™ simplifies the complex relationships between the key HF welding variables: heat (power), HAZ width (frequency), vee length and mill speed.
- To use HAZControl Technology™ an operator enters the mill and tube information into the HMI and the software power and frequency provides the initial settings.

HF WELDING WITH HAZControl Technology™

- HAZControl Technology™ uses predictive algorithms to calculate the initial recommended HF welding frequency and power settings.
- During operation the welder power and frequency can then be adjusted by the operator based on experience or the suggested settings from the HAZControl screen.
- Once the operator has achieved the best weld per their production requirements, the optimal HF weld parameters can be stored for future runs.
- At any time during HF welding, manual adjustments to the welding parameters are possible.



Store and Recall Weld Recipe Parameters

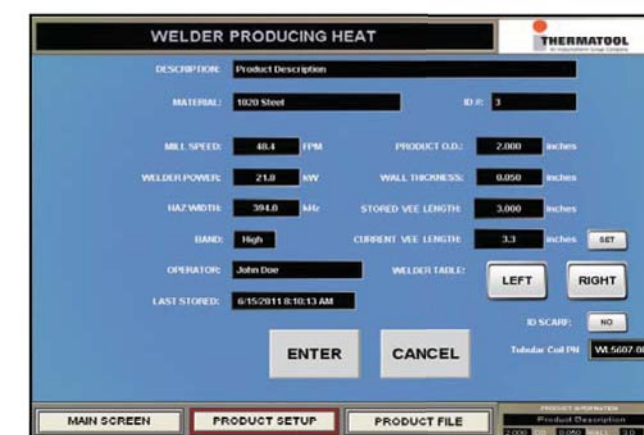
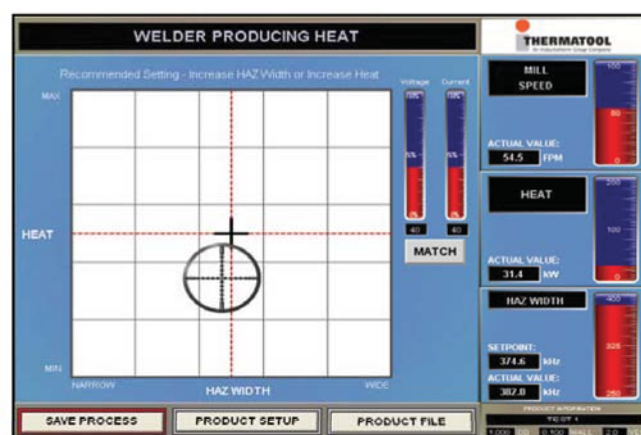
- The operator enters all necessary tube information (diameter, strip thickness, vee length, material, etc), and then stores it for future use in the HAZControl Technology™ database.
- HAZControl Technology™ setup screens are used to store product parameters in a simple chart that allows users to later edit or recall process recipes as production requirements change.

AutoMatch™ - Welder Load Matching

- The patented fully automatic load matching system enables the welder to run at optimum efficiency with +/- 1% frequency stability.

Vee Axis Control™ – Automated Vee Length Setup

- When the operator inputs the desired vee length in the HMI, the HF welder table positioning servo sets the induction coil or weld contacts to the specific position. Note: feature requires use of Thermatool induction coils.
- Speed Power Control gives the operators the confidence and the tools that they need to start, stop and jog the mill while welding. This keeps scrap to a minimum by reducing open seam.



HAZControl Technology™



HAZControl Technology™ RF 12



HAZControl Technology™ RF 24



HAZControl Technology™ RF 36

The combination of selecting the right power and frequency offers pipe and tube manufacturers the flexibility to successfully produce the best weld despite ever changing mill variables. HAZControl Technology™ allows the welder operator to select the optimum welding frequency at the console, maintain the frequency, store and retrieve setup parameters and achieve consistent repeatability.

HAZControl Technology™ welders are now coupled with an operator friendly control system that enables the user to tailor weld parameters to your products and mill.

Models	Power Range	Frequency Range
HCT RF 12	100-350 kW	150-400 kHz
HCT RF 24	350-600 kW	150-400 kHz
HCT RF 36	600-1200 kW	150-320 kHz
Custom	1400-1800 kW	150-275 kHz

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