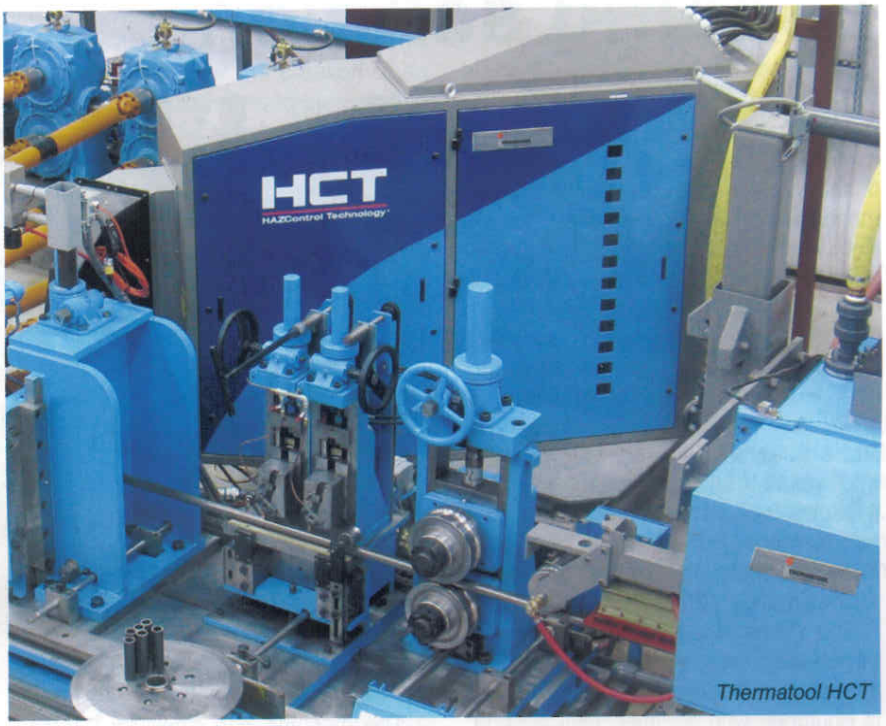
New levels of welding control

THERMATOOL Corporation has introduced a new generation of HF tube and pipe welding system that incorporates an intuitive user interface called HAZControl™ Technology (HCT™), designed to deliver precise, independent control of weld power and frequency on each mill run.

To meet the stringent demand of customers, all tube and pipe manufacturers have worked to more efficiently manufacture products to customer requirements without a compromise on quality. The quality of a tube or pipe manufacturer's end product is primarily dependent on the quality of the weld. A successful weld is rooted in the culmination of process knowledge and industry expertise.

Each producer's approach yields a different product and with influencing variables like power, line speed, frequency, and vee geometry, the weld is as complex and vital as the industry that produces it. Thermatool has introduced HAZControl Technology to simplify the complex relationships between key HF welding variables. The HCT interface enables a user to decide upon the optimal weld parameters that define their product. It then uses predictive algorithms to calculate and plot how power, frequency, vee length and mill speed influence the weld. If any of the defined key variables change, HAZControl Technology guides the operator back towards the approved HAZ width and geometry according to the producer's requirements.

HAZControl Technology represents further development of Thermatool's variable frequency current fed inverters (CFI). True variable frequency, pioneered by Thermatool in 1999, allows controlled adjustment of output welding frequency. Other welding systems can alter frequency only by forcing an operator to change capacitors, transformer taps, induction coils, or other mechanical adjustments, which results in costly downtime.



Thermatool HCT

Thermatool's HAZControl Technology guides operators by a simple visual display of the target HF weld parameters, to control output frequency in real time. The software was designed to reduce set up time and scrap by giving the operator the ability to control frequency in 1kHz increments while maintaining frequency stability of ±1%. The resulting precision ensures repeatable HAZ characteristics across an entire product range, regardless of operators, mill speeds or product. Thermatool's intuitive HCT control panel software allows the operator to save the desired weld parameters of the optimal weld per product and quickly recall the production recipe for repeatability.

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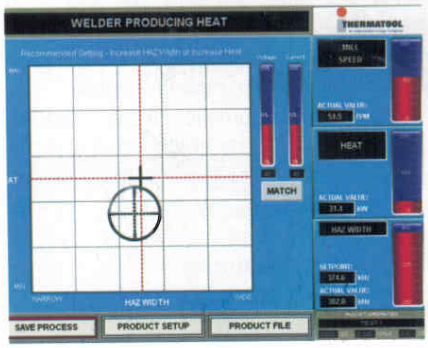

RingSaw from Reika

GERMAN company Reika recently received another order for a stationary saw based on the RingSaw solution from one of the world's largest pipe manufacturers.

The customer's requirement is to cut tubes up to 180mm in diameter that will be used later in the production of sleeves. These are high-precision tubes according to API standard for use in oil-field applications.

"The customer is cutting to a high precision standard, so there was no better choice than the RingSaw," commented sales manager Andreas Zimball. The customer conducted long-term testing with its material on a RingSaw machine at Reika's factory in Hagen, Germany, prior to making the purchase decision.

"Test results were not only entirely satisfying, but we were able to design an optimised machine on the basis of the customer's material," said Mr Zimball. The customer was quickly convinced by Reika's RingSaw head orbiting the fixed work-piece with benefits including low burr, high accuracy and quick performance.

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