

U.S. Heatstake to Host Webinar on Impulse Staking and Brass Inserting with the Benchtop Press

Understand how features like linear encoders, "Weld by Energy" control systems, and design enhance precision, efficiency, and safety.



COLUMBUS, OH, UNITED STATES,

September 11, 2024 /EINPresswire.com/ -- [U.S. Heatstake](#), an innovative provider of advanced insert staking solutions, announces an upcoming webinar hosted by founder Alex Spurgeon. The webinar will focus on the company's groundbreaking Benchtop Press, a solution designed to address the challenges of modern manufacturing.

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These manual processes could be a lot better for your success. They strain your workforce, limit your output, and expose you to potential safety hazards and customer dissatisfaction.”

*MANUFACTURING SOLUTIONS
PROVIDER*

The Need for Agility in Manufacturing

Today's manufacturing environment demands agility. Companies face pressure to complete shorter runs, iterate designs faster, and find cost-effective prototyping methods. Traditional methods often struggle to keep pace with these demands.

Bridging the Gap: Manual Processes vs. Large-Scale Automation

While common, manual processes often lack precision, can

be labor-intensive, and even dangerous. On the other hand, large-scale automation systems are often cost-prohibitive for many businesses.

The Benchtop Press provides a solution that bridges this gap. Developed out of a need identified during U.S. Heatstake's product development process, it offers a versatile and affordable option for prototyping and low-volume production.

Webinar Highlights: Unveiling the Benchtop Press

- Discover the shortcomings of traditional methods: Gain insights into the limitations of manual processes and large-scale automation, particularly in applications like brass inserting.
- Explore the key features of the Benchtop Press: Understand how features like linear encoders,

“Weld by Energy” control systems, and intuitive design enhance precision, efficiency, and safety.

- Witness the Benchtop Press in action: See a live demonstration showcasing its ease of use and capabilities, focusing on practical applications.
- Learn about real-world applications: Discover how the Benchtop Press benefits industries such as automotive, injection molding, and ultrasonics.
- Participate in a live Q&A: Have your questions answered directly by experts from U.S. Heatstake.

Who Should Attend?

This webinar is ideal for professionals involved in various stages of manufacturing.

- Manufacturing engineers and technicians
- Machine builders
- Production managers and supervisors
- Quality control professionals

Webinar Details

- Date: October 15, 2024
- Time: 10:00 – 10:30 AM EST
- Presenter: Alex Spurgeon, Founder, U.S. Heatstake
- Registration Link: <https://www.eventbrite.com/e/1014504338787?aff=oddtcreator>


Watch a video to learn more: [Impulse Heat Staking with Weld by Energy](#)

About U.S. Heatstake

U.S. HeatStake is an innovative provider of advanced insert staking solutions designed to transform how manufacturers assemble components. Our impulse technology delivers lightning-fast, precise, and safe insert staking for various industries, including automotive, medical devices, and consumer electronics. By replacing outdated methods, U.S. HeatStake empowers businesses to streamline production, reduce costs, and improve product quality, all while ensuring the safety of their workforce. Our bench-style presses and other customizable components are engineered to meet each customer’s needs, providing a tailored solution for

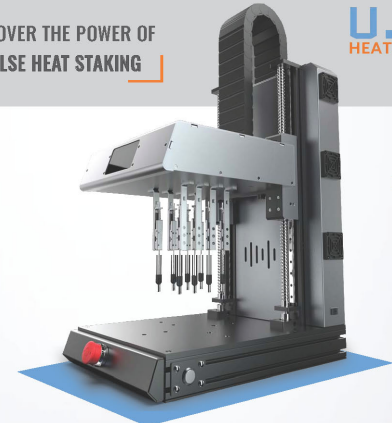
BENCH TOP PRESS

DISCOVER THE POWER OF IMPULSE HEAT STAKING




FEATURES

- Independent Weld by Energy Control for up to Eight Tips
- Integrated, High Accuracy Linear Encoders for Independent Boss/Insert Presence and Weld Distance Confirmation
- High Visibility and Easy to Navigate HMI
- Dual Ballscrew Actuators with Encoder Feedback
- Real-Time Distance and Energy Readout
- Digitally Configurable, Variable Work Position
- Integrated Interference Detection to Prevent System Crash
- Plastic Heat Staking or Brass Inserting Modes



MODEL 8TP




LINEAR ENCODER

With a high accuracy linear encoder featuring 0.1mm precision, our staking equipment ensures that bosses are present before each cycle and welds are completed within tolerance.

STANDARD FEATURES:		TECHNICAL DETAILS	
	Dual Anti-Tie Down Start Buttons	Standard	Input Voltage 110VAC/1Ph.
	Non-Contact Style Start Buttons	Optional	Input Amperage 25A
	Front Emergency Stop	Standard	System Weight 95lbs.
	Remote Software Updates	Optional	


HOW DOES IMPULSE HEAT STAKING WORK?



1 THE RIGHT PULSE

Our specially designed tip delivers a precise, intense pulse of electrical current through a heating element, tailored to your project's needs.


HEAT



2 POWERFUL BONDING

Pressing the heated element onto plastic parts softens and flows the plastic, creating a strong, reliable bond that withstands rigorous use and environmental factors.

COOL




3 SWIFT AND LASTING RESULTS

The tip is cooled with compressed air, solidifying the plastic within seconds to form a permanent, long-lasting bond. The heating element then retracts without any risk of sticking or stringing.


RETRACT

APPLICATION



PLASTIC HEAT STAKING

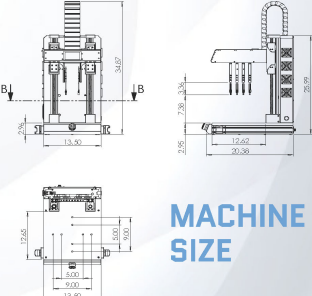
U.S. Heatstake's impulse staking technology provides precise, efficient plastic heat staking, forming strong bonds with minimal thermal impact. Ideal for delicate applications, it ensures consistent, high-quality results.



BRASS INSERTING

U.S. Heatstake's impulse staking technology efficiently inserts brass into plastic with controlled heat, ensuring strong bonds and minimal thermal stress. Ideal for reliable threaded connectors, it enhances assembly quality and consistency.

MACHINE SIZE



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optimal efficiency and performance.

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