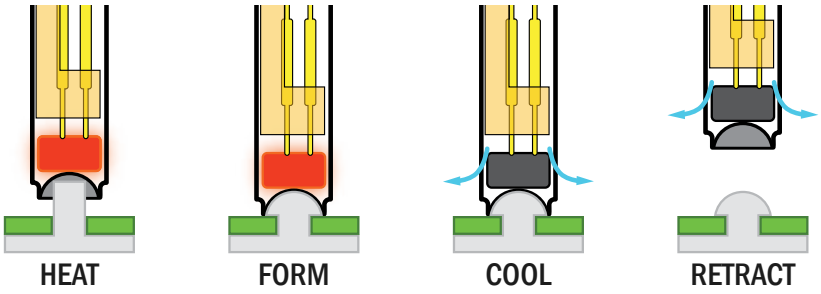
NANOSTAKE

PROCESS OVERVIEW

The low-current, high-performance heater heats the punch to a programmed melt temperature in seconds and forms the boss into a stake. Once the punch reaches the correct height, it rapidly cools to a programmed release temperature and retracts.



BENEFITS OF NANOSTAKE

FITS IN TIGHT SPACES

NanoSTAKE is small and fits into tight spaces where other technologies don't.

SAFE FOR ELECTRONICS

NanoSTAKE doesn't vibrate and only heats the boss, which makes it safe to use with electronics and other sensitive components.

LOW ENERGY CONSUMPTION

NanoSTAKE uses low current and low voltage power, using very little energy.

CLEANER STAKES

NanoSTAKE doesn't vibrate, so the finished stakes are clean and free of particulate contaminants.

RELIABLE AND REPEATABLE

NanoSTAKE is a true closed-loop process that controls several key parameters to ensure a consistent, quality process.

TAMPER EVIDENT

NanoSTAKE produces a permanent joint that shows evidence of tampering if the product is opened. In contrast, screws can be removed without evidence of tampering.

SMART RELEASE TECHNOLOGY

NanoSTAKE's Smart Release briefly reheats the module as it retracts, ensuring the plastic releases cleanly.

NO READ THROUGH

NanoSTAKE does not use excessive heat or vibration, eliminating the risk of A-surface marking and read-through on aesthetic components.

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