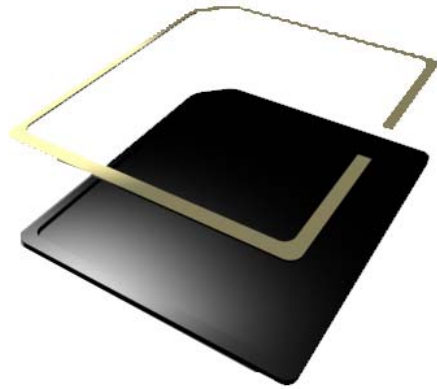


Application Study

ASSEMBLY OF HEAT ACTIVATED FILM ONTO MULTI-MEDIA CARD



TASK

Apply a heat activated film (HAF) inside a multi-media card (MMC).

CHALLENGES

- The film adhesive, shaped like the outer contour of the lid, is very thin and weak, making it difficult to handle.
- The film adhesive must be placed within a tight tolerance of ± 0.08 mm inside a recess in the lid.
- The lid must be heated up to activate the adhesive and allow it to adhere.
- The time required to heat and cool the lid must not impact the overall cycle time.

SOLUTION

- Model 3065
- Customized chuck
- Customized nest with heating device and linear feeder enabling manually fed automatic operation
- Rewind reel
- Bench top configuration for semi-automatic operation

FEATURES & BENEFITS

- The linear feeder has an integrated heater to pre-heat lids before they enter the heated nest.
- Once in the heated nest the lid is automatically centered and the heat activated film placed.
- The temperature of the nest and pre-heater, the placement force, and the placement dwell time are all adjustable parameters allowing the complete process control.
- Utilizing the Bench top platform for stand-alone operation allows for a simple yet automatic operation. Operator responsibilities are limited to manually loading the lids and replacing rolls of heat activated film.

