# **Application Study**

# ASSEMBLY OF FLEX CIRCUIT ADHESIVE ONTO INK CARTRIDGE



#### TASK

Assemble a double-sided flex circuit adhesive onto ink cartridge for affixing a flex circuit.

## **CHALLENGES**

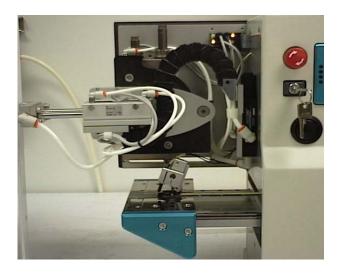
- The assembly of the adhesive is part of a multi-step asynchronous automated system that requires the pallet to present the cartridge in an orientation horizontal to the AccuPlace machine due to other process constraints.
- Many different ink cartridges are assembled on the same line requiring easy changeover between different adhesives.

### SOLUTION

- Model 3065
- Customized vacuum chuck
- Optional alpha-axis placement actuator
- Rewind reel
- Tape low sensor

#### FEATURES & BENEFITS

 Once peeled, the optional alphaaxis placement actuator rotates
90 degrees and subsequently places the double-sided adhesive.
In addition, the option allows the machine to be mounted in its standard orientation for improved maintenance and roll changeover



- One vacuum chuck designed to peel all variations of the double-sided adhesive allows for quick changeover between ink cartridge models.
- A speed advantage was gained using the alpha machine as it has the ability to place the current component while simultaneously feeding another.
- The tape low sensor communicates to the host controller adhesive component roll status.



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