

# 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 alpha-axis 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 access.
- 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.

