Application Study

PLACEMENT OF FOAM PADS ONTO AUTOMOTIVE COMPONENTS

Foam pads are used in multiple applications in the Automotive industry: Noise reduction, moister sealing, vibration dampening. The solution described below represents one of the numerous examples solved.

TASK

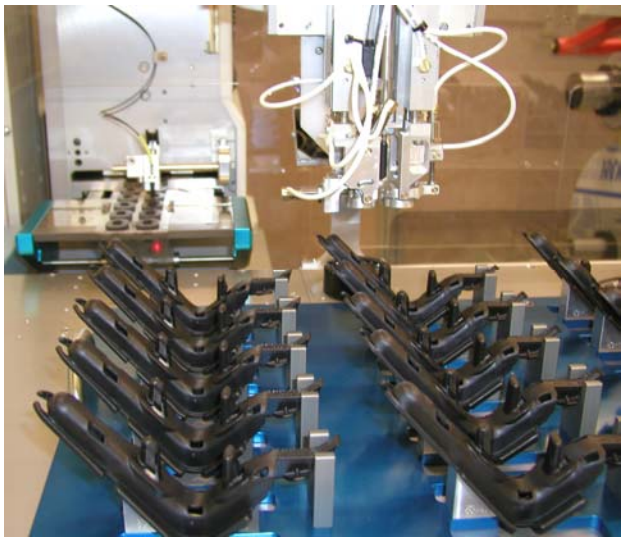
Place two foam pads over an extrusion for noise reduction. The foam pads are oriented in a 90 degrees angle to each other.

CHALLENGES

- Foams are thick and difficult to die-cut consistently to low tolerances, making it difficult to accurately peel and place.
- The foam pads have to be placed over an extruded hook
- The two foam pads are oriented in a 90 degree angle to each
- Bad placed parts or missing foam pads have to be detected and sorted out

SOLUTION

- APAC
- 3 Robot Mode RM3065
- Vision system
- Dual tray shuttle



FEATURES & BENEFITS

- AccuPlace's peeling technology allows for consistent peeling of the components and for bubble-free placement.
- The dual tray shuttle allows for semi-automated operation. The operator loads/unloads one tray shuttle while the APAC assembles on the other. The only other operator responsibility is changing rolls of adhesive.
- The custom chuck and nest allows rotating of the part after the first foam is placed, then the second foam can be placed in a 90 degree angle.
- The optional vision system ensures that only good assembled parts are processed any further.

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