

Application Study

PLACEMENT OF MICROPHONE MESH and DUST GASKET



TASK

Assemble a microphone mesh and a dust gasket onto the front housing of mobile phones.

CHALLENGE

- Both the mesh and dust gaskets are awkwardly shaped and the gasket is of porous material. These characteristics make them difficult to peel.
- Microphone mesh can be picked up by vacuum in certain defined adhesive zoned areas only.
- Accurate placement within a tolerance of ± 0.02 mm is required.

SOLUTION

- APAC
- 2 RM3065
- Two customized chucks on Z-axis with independent z-stroke
- Fixed camera vision system
- Dual tray shuttle

FEATURES & BENEFITS

- The APAC's integrated vision system allows easy identification and accurate placement of meshes and gaskets.
- The precision chucks match the form and adhesive zoned areas of both mesh and dust gasket. This along with AccuPlace's patented peeling technology ensures that the adhesive parts are peeled and placed accurately onto the target part.
- 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.
- Placing two parts simultaneously ensures a high throughput rate of 99.8% good parts and meets the customer's requirements for a fast ROI.

