

EARPIECE SPEAKER MESH ASSEMBLY



TASK

The earpiece speaker mesh is one of the more complex components of mobile phones. Placement of this mesh is a challenging application that requires absolute accuracy. In the following pages we present a variety of solutions provided.

Application Study

SEMI-AUTOMATIC PLACEMENT OF VERY PARTICULAR ADHESIVE MESH WITH MODEL 3065



SOLUTION

- Model 3065
- Customized chuck
- Customized nest
- Benchtop configuration for semi-automatic operation
- X-axis detection option

FEATURES & BENEFITS

- The customized chuck along with AccuPlace's peeling technology allow for consistent peeling of the mesh.
- The bench top platform consisting of a base with feet, built-in power supply, and 2-hand control provides a simple cost-effective solution that captures the quality benefits of automation in a low-tech region.
- The optional x-axis detection corrects the cross-web tolerances of the adhesive component on the liner and allows accurate placement into the recessed area of the housing.

CHALLENGES

- The mesh shows high tolerances on the liner.
- Only a minuscule portion of the mesh is zoned with adhesive, thus chucking and peeling the mesh off the liner is difficult.
- Tight tolerances on the mobile phone housing require accurate placement.
- The manufacturing location is in a low-tech region with minimal automation expertise.



Application Study

3-DIMENSIONAL PLACEMENT INTO HOUSING



CHALLENGES

- The shape of earpiece speaker mesh is irregular and awkward to handle.
- The three-dimensional design of the target part housing requires complex, highly accurate placement of the mesh.

SOLUTION

- Model 3065
- Customized low durometer chuck
- Benchtop configuration for semi-automatic operation

FEATURES & BENEFITS

- AccuPlace's patented technology ensures a repeatable and accurate peeling.
- The low durometer chuck and the sophisticated matrix of pressure and vacuum settings warrant accurate placement 3-dimensional into the target part.
- The bench top platform consisting of a base with feet, built-in power supply, and 2-hand control provides a simple cost-effective solution that captures the benefits of automation

