

Application Study

DOMESTIC SWITCH ARRAY ASSEMBLY



TASK

Apply an adhesive-backed popple-dome keypad onto a mating printed circuit board (PCB) within a tolerance of 0.002".

Outlined below is a semi-automated as well as a fully automated solution.

FULLY-AUTOMATIC SOLUTION

SOLUTION

- APAC
- Robot Mode RM3065
- Vision system
- SMEMA conveyor system
- Project specific tooling

FEATURES & BENEFITS

- The APAC's vision system inspects each placement position and re-centers the peeled dome switch array before actual placement. The APAC thus reaches the required tight placing tolerance of 0.002" even as the dome switch array itself shows a significantly higher tolerance.
- The conveyor system and SMEMA interface allow the APAC to communicate with succeeding production steps, resulting in a fully integrated and automated assembly line.

