

# Application Study

## ASSEMBLY OF NAME PLATE ONTO MOBILE PHONE HOUSING



### TASK

Assemble the manufacturer's name plate onto a mobile phone housing. Outlined below are two different solutions AccuPlace has developed and provided to the market.

### ROBOT MODE SOLUTION FOR INTEGRATION IN FULLY AUTOMATED STATION

#### SOLUTION

- RM3065
- RS 232
- Tape low sensor
- Rewind reel

#### FEATURES & BENEFITS

- AccuPlace's peeling technology allows for consistent peeling of the name plate.
- The RM3065's foot print and easy interface make it ideal for integration into an automated system, using a RS 232 serial communication port.
- To minimize machine changeover time, the optional tape low sensor alerts for upcoming reel changes in advance.
- The RM3065 operates at a cycle time of less than one second per name plate.

### CHALLENGE

- The name plate is inflexible and must be placed into a tight recessed area.
- High accuracy is required.
- Communication with integrator's equipment is required.



# Application Study

## FULLY AUTOMATIC SOLUTION WITH APAC AND VISION



### SOLUTION

- APAC
- 2 RM3065
- Customized tooling
- Vision system
- Tape low sensor
- Status indicator light
- Dual rewind reel
- Dual tray shuttle

### FEATURE & BENEFITS

- Visual inspection of the name plate at the peel position and the target part in a molded tray ensures fully automated, accurate placement within a tolerance of  $\pm 0.002$ ".
- 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 dual rewind reel option cleanly removes both the waste liner and the cover liner protecting the name plates.
- To ensure reliable adhesion, the servo-driven z-axis holds the name plate to the housing for three seconds at 60 pounds per square inch (psi).
- The APAC can be modified easily for a new generation of mobile phone housings and name plates at minimal expenses: The chuck is the only custom tooling that must be changed.



### CHALLENGE

- The name plate is inflexible and must be placed into a tight recessed area.
- High accuracy is required.
- A specific adhesion processing time is required.