

Automotive Sensor Weld and Assembly



Assembly

Custom Process

This turnkey system performs a series of operations on a rotary dial index as it assembles precision components.

Components are automatically fed from a magazine into a rotary dial which is designed with two (2) sets of custom-designed fixtures, for assembling three (3) different families of parts.

Once placed on the dial, the parts are positioned and ultrasonically welded. The welded assembly is then robotically transferred to a linear system for metal trim removal and photo-sensing for quality inspection. A SCARA robot transfers final parts onto trays for conveyor packout.

FEATURES

- 24/7 operation
- 3 second cycle time
- Single operator system
- Adaptability between three (3) families of parts

TECHNOLOGIES

- Custom-designed fixtures
- Servo dial indexing
- Ultrasonic welding
- Integration of press system for metal trim removal
- Inline inspection
- SCARA robot transfer and palletizing