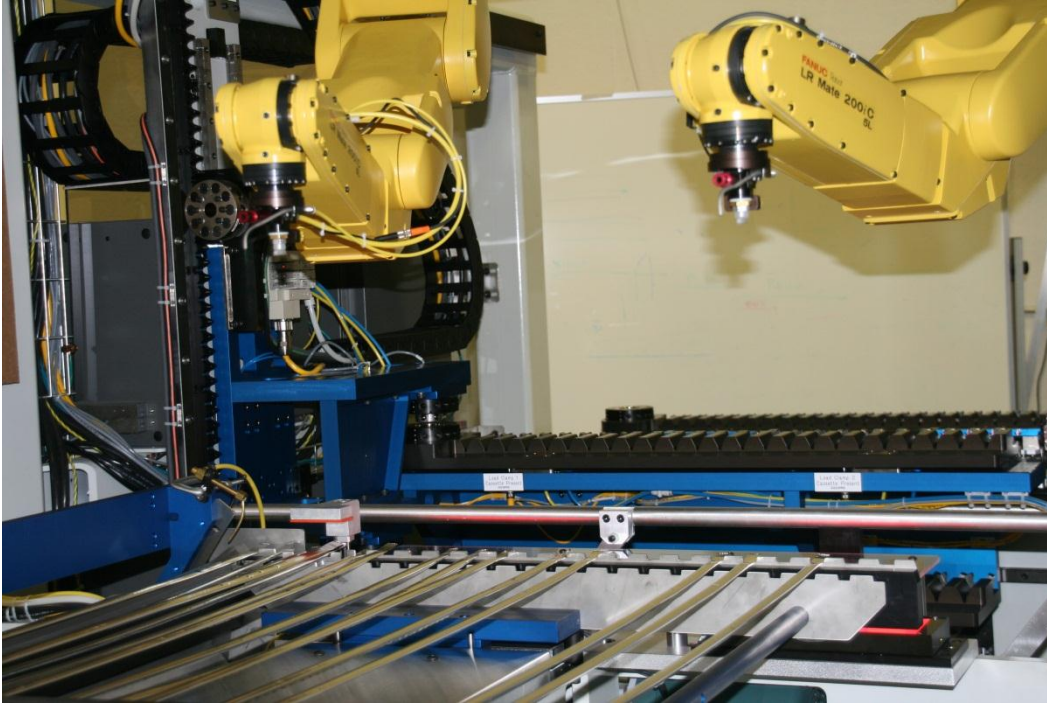


## AUTO HANDLING OF NONCONFORMING PARTS



*Material Handling*

*Robotic Integration*

This customer came to Isthmus with a unique material handling challenge. Following a successful proof-of-process (PoP) development, a system was designed to automatically handle gas-filled Mylar casings used in the solar industry.

Parts are presented in bulk to a cam driven step feeder which transfers them to a walking beam conveyor. Two six-axis vision-guided robots use vacuum end effectors to pick and place the casings into a custom fixture. This fixture has pneumatic clamps which stage and secure 24 parts at a time.

A servo-driven rack and pinion transfers the fixtures for further downstream processing.

### **FEATURES**

- Production rate: 3200 parts/hr
- Labor reduction and ergonomic improvements
- Multiple systems to meet production demand
- Integration with upstream and downstream material handling equipment

### **TECHNOLOGIES**

- Walking beam conveyor transfer
- Custom vacuum end effectors
- Vision-guided robotics
- Servo-driven rack and pinion transfer