ROBOTIC PRODUCT ASSEMBLY CELL

FUNCTION: Designed to integrate with a mold press, this cell automated the assembly process while inspecting proper fit between liners (shown in robot gripper), O-ring (placed on liner) and the cap.

SAFETY
Switches are wired to stop the robot when doors are open and quickly resume when closed.

HUMAN ERROR REDUCTION
Operators’ responsibility was to keep the product loaded which was signaled by the light tree.

PRODUCT QUALITY IMPROVEMENT
Each product is inspected through a series of pass/fail operations. All of which provide early detection of problems prior to the assembly.

CYCLE TIME REDUCTION
What were once three independent processes have now become consolidated into one work cell reducing cycle time to a fraction of the prior process.

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