

# APPLICATION DATA

## No. 806 – Sealant Adhesive Dispensing Machine

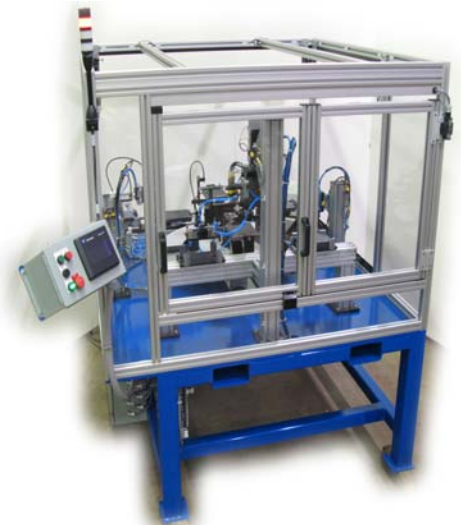


### Sealant Adhesive Dispensing Machine Specifications

- **Assembly:** Two piece, flexible plastic, LCD display (for Boogie Board™ tablet).
- **Adhesive:** Norland UV Sealant 91; single component sealant designed for liquid crystal displays.
- **Production Rate:** 400-500 parts per hour.
- **Dimensions:** 70" W x 70"L x 78"H
- **Utilities:** Electrical, 110/1/60, Control voltage 24VDC, Compressed Air ¼ NPT, 70 psi.
- **Control:** Allen Bradley Micrologix 1500 PLC with Panel View 550 operator interface.
- **Safety Features:** Complete perimeter plexiglas guarding of all machine functions.

### Sequence:

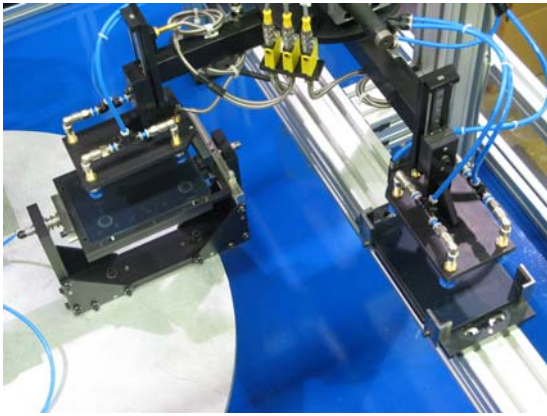
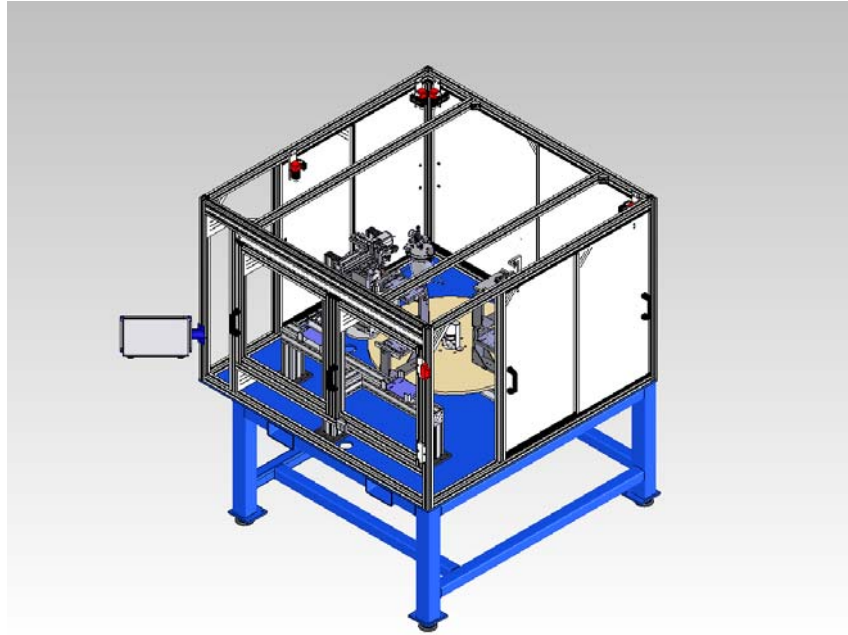
1. Operator loads a stack of 100 displays into a holding bin.
2. Pick-and-place device removes one display from the stack onto station #1 of the rotary index machine.
3. At station #2, dispensing head applies sealant adhesive layer to first display tab. Fixture is inverted and adhesive is applied to second display tab.
4. Stations #3 and #4 are equipped with UV spot light curing systems that seal the substrate overlap joint area. Two UV curing stations are used to achieve production rate.
5. Displays are unloaded by same pick-and place that loaded them at station #1. Finished displays are stacked into a holding bin.
6. Machine detects empty display bin; operator is responsible for removing the full display stacks and replenishing bins as needed.



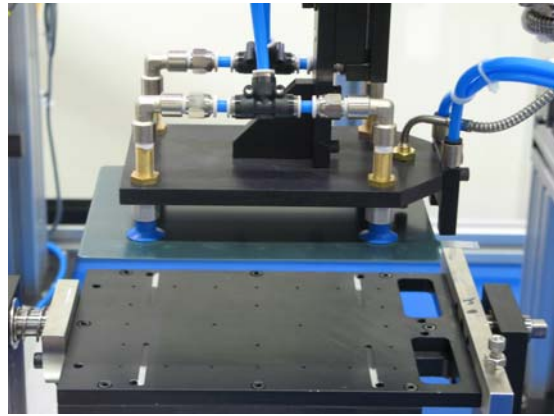
*Dispenser applies sealant adhesive to display tabs.*



*UV light-curing spot lamps affect tabs without disturbing active display area.*



*Dual head, pick-and-place functions as both display loader and unloader.*



*Pick-and-place equipped with soft suction cups and vacuum to protect sensitive display surface.*

#### **Machine Components/Features**

- Processes display sizes between 3"x3" and 9"x12"; changeover time approx. 15 minutes.
- EFD 725 Series piston valve dispenser with 1 liter capacity reservoir.
- Dymax BlueWave® 200 UV light curing system.
- Dual head pick-and-place.

