High-Precision Adhesive Dispensing System for Automated Production offers Quality Results

As head lamp and rear lamp adhesive bonding applications continue to evolve, Nordson Sealant Equipment continues to work with material suppliers and lighting manufacturers to develop high-precision dispensing systems for these applications.

Today’s glass manufacturing challenges include increasingly large assemblies and a wide variety of designs in polycarbonate and glass lamp bonding. In applications such as these, precision dispensing and automation is crucial for high production and quality bonding.

Many two-part adhesives use an accelerator to improve the speed of the overall process. This requires mixing both components at a specific ratio. Nordson Sealant Equipment provides meter-mix dispensing systems are capable of laying on-ratio and repeatable precision beads of adhesive.

The two-part adhesive dispensing process is the most popular choice for lamp bonding, and has been adopted by many companies globally for several years. The possibilities for future use are endless. Any application using precision bead dispensing is an opportunity for Nordson Sealant Equipment to work with a manufacturer to improve production time and quality.

The following is one example for lamp bonding:

- Servo-Flo 801 Meter System
- Electronic control panel with HMI
- Two-part mix-dispense valve and mixers
- Material supply pumps or tanks
- Hose sets for supply and dispense

Lamp dispensing applications include:
- Plastic lens to housing reflector bonding
- Glass lens to metal reflector bonding
- Sealing exhaust holes
- Halogen burner bonding
- Halogen insertion lamp potting

Materials used in lamp bonding include:
- Two-part polyurethanes
- Two-part silicones
- Hot melt adhesives
- UV cure epoxies

Material supplier partners:
- Dow Corning
- Henkel Loctite

Nordson Sealant Equipment offers a range of metering systems to fit the needs of a manufacturer’s dispensing application.