■L&L Products Automotive.



AUTOMOTIVE

Automation for Process Optimization.

L&L Products offers a range of technologies that are fully compatible with automated or robotic processes for greater efficiency, reduced waste, and improved precision compared to traditional manufacturing processes.

Ilproducts.com

L&L Products

Automotive.

Enabling Lights-Out Manufacturing.

Paired with automated processes, our solutions target laborintensive or messy manual operations, repetitive operations, cycle time reductions, and ergonomic challenges for bonding, sealing, and reinforcing applications.

EXTRUDE-IN-PLACE™ (XIP®) TECHNOLOGY

L&L's eXtrude-in-Place[™] (XiP[®]) technology combines customformulated chemistry with the capability of a fully automated application process. The sealant material is extruded and applied directly onto the part or frame by robotic application or CNC system. Once deposited, the material is dry-to-the touch for ease of handling and transportation.



XiP® eliminates messy application and waste from washout.



Substrate Warming

 Quick surface heating to 50 to 110°C with no impact to the metal



Material Deposition

- Pellets melted in the extruder
- Material extrusion by robot or CNC system
- Parts are stationary or robotically handled



Dry-to-Touch for Handling

- Ready to handle or transport once cooled
- · Wash-out resistant
- · Cured in the E-coat oven

AUTOMATED CBS™ INSERT & BAFFLE INSTALLATIONS

L&L parts are engineered for both robotic and manual installation. The L&L Products team collaborates with customers to design features for locating and gripping, as well as fastening hardware, weld tabs, and clips that enable automated installation.









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