



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.

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Enabling Lights-Out Manufacturing.

Paired with automated processes, our solutions target labor-intensive 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 custom-formulated 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.



1

Substrate Warming

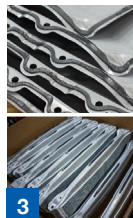
- Quick surface heating to 50 to 110°C with no impact to the metal



2

Material Deposition

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



3

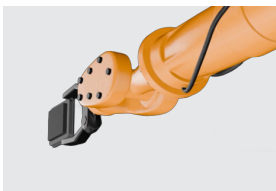
Dry-to-Touch for Handling

- 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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