

CASE STUDIES

AutoLiv

Assembly

The Application

AutoLiv manufactures equipment for folding automotive airbags across multiple OEM programs. Each airbag design requires precise handling and dedicated tooling. Historically, this meant purchasing a new machine for every model, with each unit costing approximately \$132,000. This approach limited flexibility and increased overall production costs.

The Challenge

Relying on dedicated machines created a costly and inefficient process. Every new airbag program required additional capital investment, making it difficult for AutoLiv to stay competitive when quoting new business. The lack of flexibility also restricted their ability to adapt quickly to changing production demands.

The Solution

EFFECTO implemented a customized solution using the Epsilon **XCHANGE®** Automatic Tool Changer to enable a flexible, multi-tool system. A modified pneumatic utilities module was developed, increasing air capacity and simplifying integration with pre-terminated wiring. The

system was delivered as a fully integrated unit, eliminating on-site assembly and streamlining ordering.

By replacing dedicated machines with a flexible table and interchangeable tooling, AutoLiv reduced equipment costs by approximately \$100,000 per application. This improvement not only lowered capital expenses but also allowed AutoLiv to offer more competitive pricing to automotive manufacturers. ●

“AutoLiv ASP is proud to have **EFFECTO** as part of our supplier team. They were able to meet our needs at all costs by customizing their tooling to fulfill our unique manufacturing requirements. Their commitment and expertise has contributed greatly to our ability to deliver quality products and maintain our leadership position in automotive safety.”

—**Brian L. Shupe**

AutoLiv ASP Project Manager
Machine Design and Process Development



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