Case Study: #121
Automotive Industry

COMPANY

Tier 2 Automotive Supplier

OBJECTIVE

To automate the transport, accumulation and positioning of airbag canisters between two automated assembly machines.

SITUATION

The customer had received proposed layouts using right angle turns and transfers. These designs consumed several times the floor space allocated for the project. The customer required a conveyor solution that would yield a large quantity of accumulation in the company's limited floor space.

SOLUTION

Instead of orientating the product on its side, **Conveyors Direct's** innovative design team re-engineered the part carrier to allow the product to be transported upright on our GP450 series conveyor.

This resulted in several key benefits:
1. The part carrier footprint was reduced from 12″ x 12″ to 4.5″ x 4.5″, while accommodating nearly three times as much product in the area allotted.
2. Continuous, tight radius turns further reduced floor space consumption.
3. The new part orientation made it easier to load into the assembly machine.

BOTTOM LINE

The system far exceeded the original requirements specified by the customer. Meaningful cost savings and maximum productivity were achieved by reducing the use of valuable production floor space by 66% and through the elimination of costly transfers, control sensors and programming. Also, quality was significantly improved by eliminating one handling operation at each pick point. Finally, the use of **Conveyors Direct** non-proprietary industry standard fasteners and slot nuts assisted in lowering mechanical and electrical installation costs.
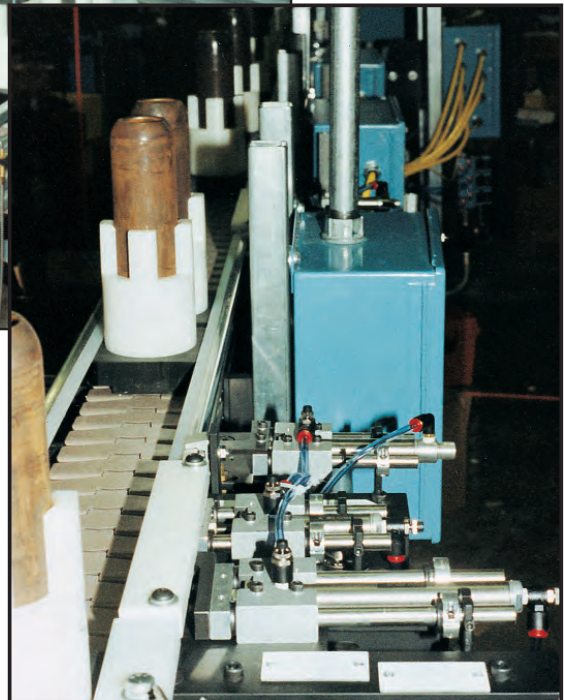
Re-orienting the product to an upright position allowed
tight radius turns and conserved floor space.

Automated lock and escapement stations.
(Safety covers removed for clarity.)

CONVEYORS DIRECT™

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