

Case Study: #123

Electronics Industry

COMPANY

Manufacturer of Electronic Consumables

OBJECTIVE

To develop an automated transportation system to join two high speed process machines together with high density accumulation, automated positioning and product re-orientation.

SITUATION

The customer's existing assembly line equipment was too slow, very costly to operate, caused significant downtime and inaccurately placed product at the pick points. Further, floor space restrictions required the assembly stations to be offset by 180-degrees, necessitating a matching re-orientation of the product between stations.

Due to machine changeover, the system had to absorb machine outputs on-the-fly and redirect them to high capacity accumulation towers.

SOLUTION

Conveyors Direct constructed a modular conveyor system with high strength conveyor chains to allow a fluid transport path with a minimum of transfer points. "Alpine" style accumulators were designed to both lift and lower product within the same compact footprint.

A specially designed product carrier and orientation device quickly reoriented product as it passed along the conveyor.

High speed, high accuracy automated stops and escapements positioned product at each pick point. Automated divert gates routed moving products to either accumulation or production points.

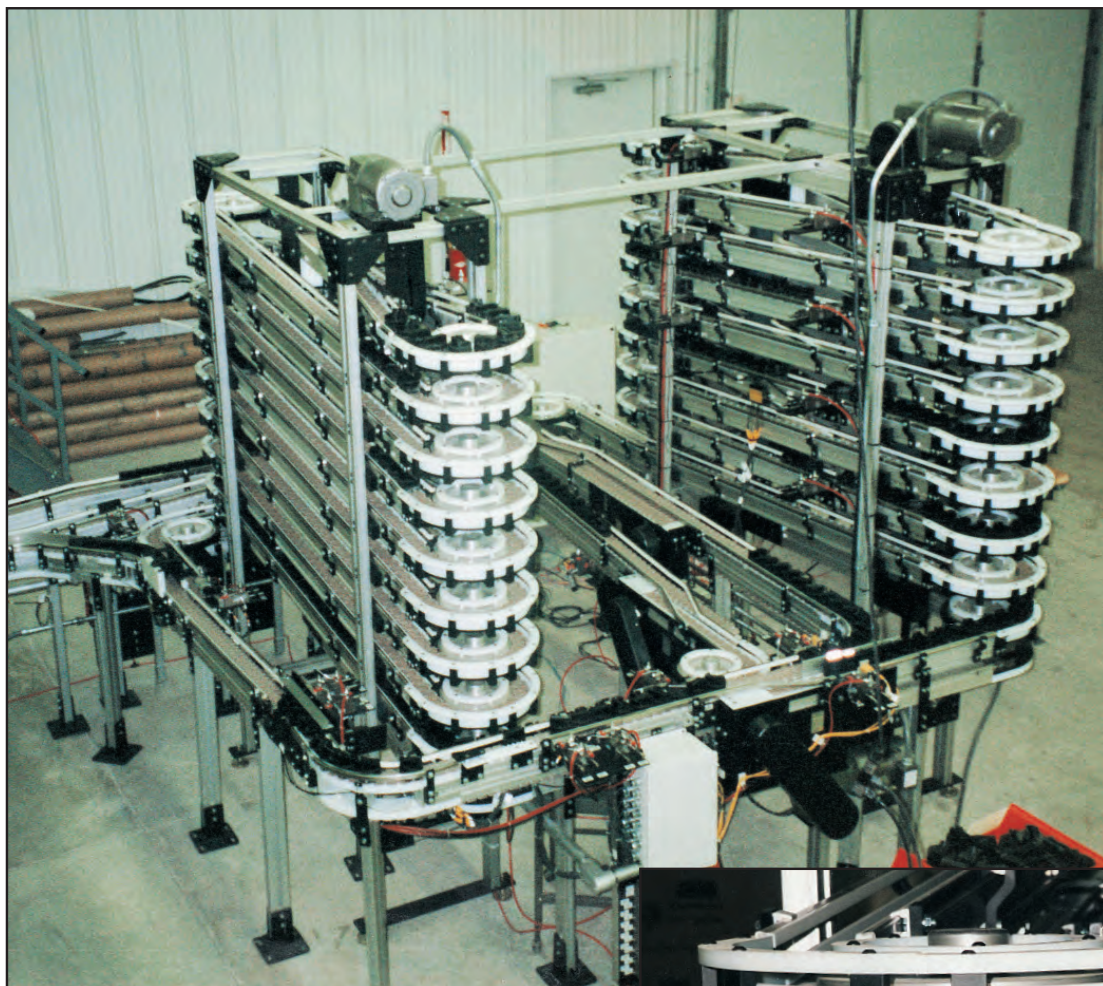
BOTTOM LINE

System uptime and accuracy surpassed previous assembly line configurations and valuable floor space was conserved by the **Conveyors Direct** innovative UP/DOWN accumulator arrangement. The unique carrier design reoriented the product between operations without increasing cycle times, thereby increasing throughput capacity by a dramatic 20%.

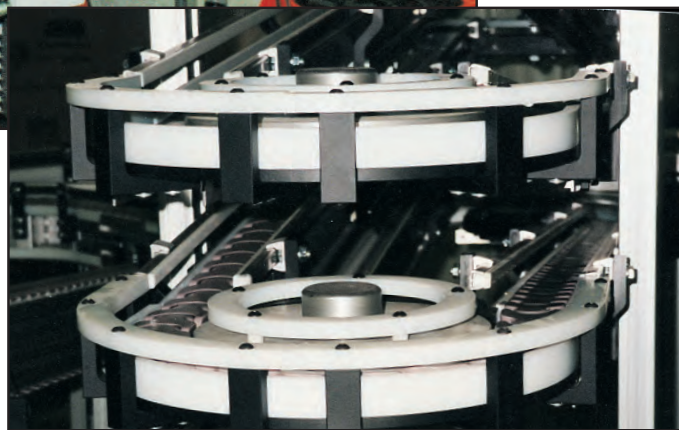
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Our innovative accumulator design saves floor space.
The system was fully assembled and tested in our facility prior to shipment.



The accumulation towers were designed with high strength frameworks, allowing them to be shipped fully assembled.



CONVEYORS *DIRECT*

Engineered Conveyor Solutions

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