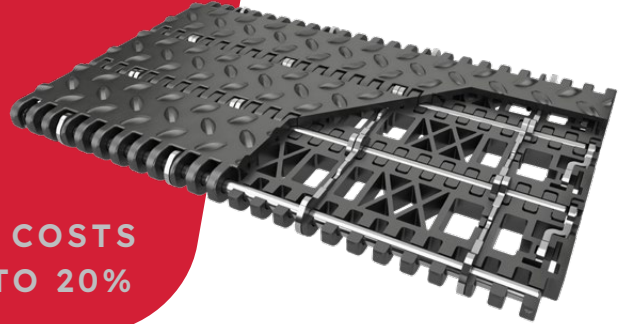




SOLUTION STORY

RV MANUFACTURER MOVES TO REXNORD® HYBRID TECHNOLOGY

REDUCING FLOOR SPACE BY 30%, LABOR COSTS BY 15% AND ENERGY CONSUMPTION UP TO 20%



LOCATION — Recreational vehicle manufacturer in Europe.

PROBLEM — Manually moving assets along the assembly line took a lot of time and space, and contributed to a hazardous work environment for employees.

SOLUTION — Installation of Rexnord Hybrid MatTop® Chain moving floor technology to create a flow line assembly.

RESULT — The customer saw benefits including increases in output, efficiency, and quality, as well as reductions of 30% in floor space and 20% in energy consumption.

THE CHALLENGE

As in many factories, a European RV manufacturing customer was moving its configurable assets along its assembly line by manual trolley or forklift. The process was not only labor intensive, but also consumed a great deal of time and space, which affected profitability. The additional labor of moving components contributed to the hazards of the work environment for employees.

THE REGAL REXNORD SOLUTION

The customer partnered with the Regal Rexnord team, who recommended its Rexnord Hybrid MatTop Chain moving floor technology to streamline the customer's manufacturing process. Available in configurations up to 26 feet wide (7.92 m) and 650 feet (198 m) long, the technology can move assets either by interval or constant speed, creating a flowline. By combining the new flowline with Lean manufacturing principles, the customer was able to achieve improvements in safety, quality and productivity on the shop floor, as well as a reduction in lead times. With the new system in place, workers spend more of their time on value-added work, and require less movement to get the same job done.

SAVINGS IN ACTION

The customer noticed reductions in occupied floor space of 30% and labor costs of 15%. Additionally, workers enjoyed the enhanced safety of their environment without having to move around the large assembly tools and assets. The Rexnord moving floor technology requires virtually no maintenance, while reducing energy consumption by up to 20% versus competing conveyor solutions. The customer can also reduce inventory through kanban supermarkets.

The Rexnord Hybrid MatTop Chain solution is ideal for RV, automotive, truck, boat, aviation, industrial, housing, appliance and asset conversion manufacturing industries.

RegalRexnord™



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CONVEYOR BELT TECHNOLOGY COMPARISON:

✗ Not Optimal
 ✓ Optional
 ★ Best choice

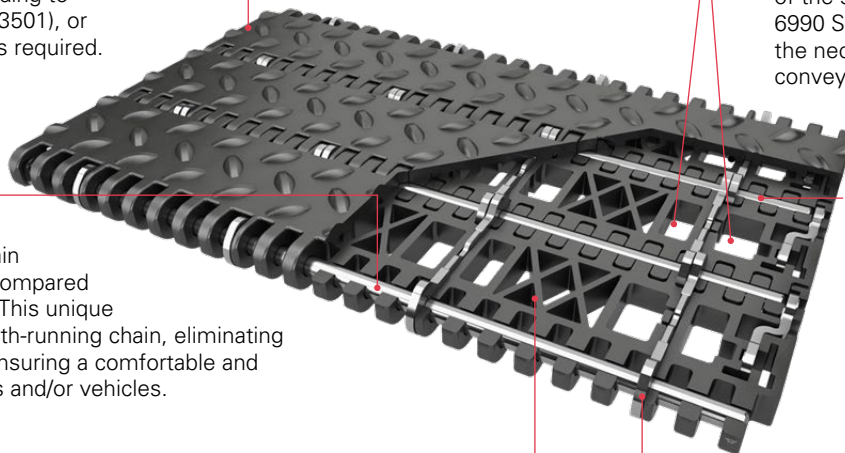
Chain Type	Steel	Plastic	Hybrid (Steel + Plastic)
Increased output vs. traditional layout	★	★	★
Minimized production fluctuation (takt time)	★	★	★
Increased Plant ROI	✓	✓	★
Plant cost reduction	✓	✓	★
Floorspace optimization*	✓	✓	★
Reduction of energy consumption*	✗ +10%	✓ 0%	★ -10%
Removal of non-value added worker effort	★	★	★
Improved worker safety and comfort *	✗	★	★
Ease of maintenance	✗	✓	★
High strength and reliability	★	✗ elasticity	★
Reduced chain elongation	★	✗	✓
Built on top of existing floor	✗ not possible	✗ difficult	★ easy < 200 mm high
Modular system	✗	★ easy to modify + expand	★ easy to modify + expand
Difficulty of repair or conversion	✗ heavy machinery required	★ easy for 1 worker	★ easy for 1 worker
Level of maintenance requirement	✗ lubrication + greasing	★ none	★ none
Long conveyor lengths without transfers	★ 200 m (656 ft)	✗ 80 m (262 ft)	★ 200 m (656 ft)
Full width conveyors	✗ higher cost	★ 8 m (26 ft)	★ 8 m (26ft)
No pulsation or slip-stick	★	✗ brakedrive required	★
ESD surface resistivity	★ N/A	✗ > 10 ⁶ Ω/sq	★ < 10 ³ Ω/sq

* Sustainability Improvements

Meets Regulations

Modules are available in flame retardant material according to DIN 4102-B1 (DIN EN 13501), or standard POM quality as required.

Rexnord 6999 Hybrid H4 Execution



Drive

Sprockets are located to the left and right of the steel hybrid structure. The Rexnord 6990 Series Hybrid MatTop Chain provides the necessary capacity to operate on long conveyors with high loads.

Smooth Ride

Rexnord 6990 Series Hybrid H4 MatTop® Chain offers higher stiffness compared to full plastic solutions. This unique design provides a smooth-running chain, eliminating slip-stick or pulsation, ensuring a comfortable and smooth ride for workers and/or vehicles.

Performance

Even load distribution through steel tension plates and steel pins contribute to the strength and stiffness of the chain, eliminating deformation in the hinge area. Operates with Rexnord's easy-to-use, steel TwistLock® Pin Retention System.

Maintenance

6990 Series Hybrid Chain consists of one standard component, enabling easy installation and operates virtually maintenance-free without the need for lubrication or tensioning on the conveyor system.

ESD Standard

6990 Series Hybrid Chain offers the lowest surface resistivity of all competitive plastic modular chains (offering < 10³ Ω/sq, according to NEN-EN-IEC 61340-4-5), protecting sensitive electronic equipment and providing a safe environment for workers.



Automation and Motion Control Regal Rexnord

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