



## Fast Facts

### Company:

A well known tire manufacturing company.

### Challenge:

The rubber cutting system for the tire's carcass provided inconsistent cuts due to an outdated RTC cylinder.

### Solution:

Livingston & Haven specialists suggested and installed a complete Rexroth control system.

### Results:

The system has increased overall production and reduced manufacturing costs. The system has the potential to be installed in the company's facilities worldwide.



## Tire-Cutting Knife System

### Company

A well-known tire manufacturing company with several large facilities worldwide. The company produces millions of tires per year and receives a profit of over \$1 billion.

### Challenge

The company had previously employed a Rexroth RTC pneumatic cylinder and an electromechanical cylinder from Exlar to precisely cut the rubber for the carcass of the tire. This action was a coordinated motion that could impact the overall production time of building tires in the event of a blade breakage, hang up on the wire or cutting at an improper angle. The RTC cylinder caused inconsistent cuts as it surged and slowed. The RTC cylinder also had to be repaired continuously, increasing manufacturing costs.

### Solution

The Livingston & Haven team began working with the company to install a Rexroth belt driven linear module. However, the company eventually purchased a complete Rexroth solution, which included a belt driven linear module with motors, drives and controls, an R&D demonstration, support and training as well as Rexroth on-site support. The new application required modifications to the cutting machine and mounting configuration, but the Rexroth package improved production and eliminated manufacturing problems.

### Results

The success of the application garnered the attention of the plant manager, supervisors and corporate engineers. The application had no post-installation issues. Livingston & Haven is not in possession of an exact cycle count, but it is suspected that they would have experienced several issues with the RTC causing downtime, reduced production output and material waste in the same timeframe. Overall, the solution has increased production and decreased manufacturing costs for the tire company.

## About Livingston & Haven

Established in 1947, Livingston & Haven is the leading industrial technology provider in the Southeast. The company specializes in providing solutions in the automation, hydraulic, pneumatic, lubrication and connector industries. Headquartered in Charlotte NC, L&H utilizes a collaboration of engineers and industry-focused specialists to provide innovative productivity solutions for manufacturers.