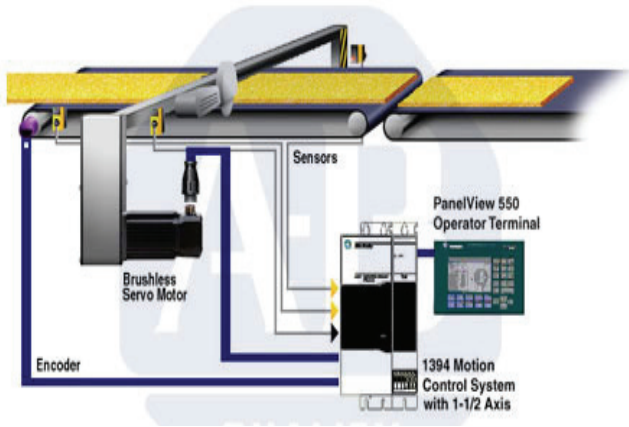


APPLICATION SOLUTION: Tire Manufacturing



Product Family: Electric
Product Used: MXB Belt drive actuator
Product Type: Standard

Application Requirements

Stroke: 72 in.
Speed: Peak speed 140 in/sec; 0.75 sec cycle time
Load: 25 lbs
Moments: Guided
Motion Profile: Trapezoidal

Application Description:

Cutting of rubber in tire manufacturing

Challenge:

A leading manufacturer of automotive tires was looking to reduce their energy consumption by 20% in their tire rubber cutting operation and improve component reliability. They were using a pneumatically operated process that was consuming considerable amounts of compressed air and requiring shock absorber replacements on the actuators on a monthly basis.

Tolomatic Solution:

A MXB belt drive actuator replaced the pneumatic actuator in the rubber cutting process. The speed of the belt drive was more than adequate to accommodate their 140 in/sec requirement and using electric rather than pneumatic motion, better suited their energy goals.

Customer Benefit:

- Saved \$4000 per year per machine
- Reduced component parts cost by over \$1500 per year