

APPLICATION SOLUTION:	Tire Inspection Press
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Product Family: Electric

Product Used: RSX15 Extreme Force Rod-Style Electric Actuator

Product Type: Standard

Application Requirements:

Stroke: 610 mm (24 in)

Static Force: 196 kN (44,000 lbf) when tire is under pressure

Dynamic Force: 4.83 kN (1,100 lbf)

Speed: 500 mm/sec (20 in/sec)

Rate: 1,500 cycles per day

Application Description:

Tire inspection press

Challenge:

The tire inspection press machines used a set of hydraulic actuators and back springs that brought two rim halves into position. The tire was then inflated and tested under pressure. All of the hydraulic components required regular maintenance and oil changes. Additionally, the hydraulic system was not very efficient and cost thousands each year to operate. Finally, the hydraulic units (including hydraulic pump, reservoir, accumulators, etc.) were noisy and occupied a lot of floor space.

Tolomatic Solution:

Tolomatic's RSX15 rod-style extreme force electric actuators were selected to replace the hydraulic cylinders. The end result had higher efficiency (lower utility costs), reduced ambient noise, eliminated the regular maintenance and leaks while it freed up valuable floor space.

Customer Benefit:

- Increased efficiency and reduced energy costs
- Eliminated downtime and costs related to hydraulic system maintenance
- Gained production floor space
- Eliminated any potential contamination of finished product from leaking hydraulic fluids