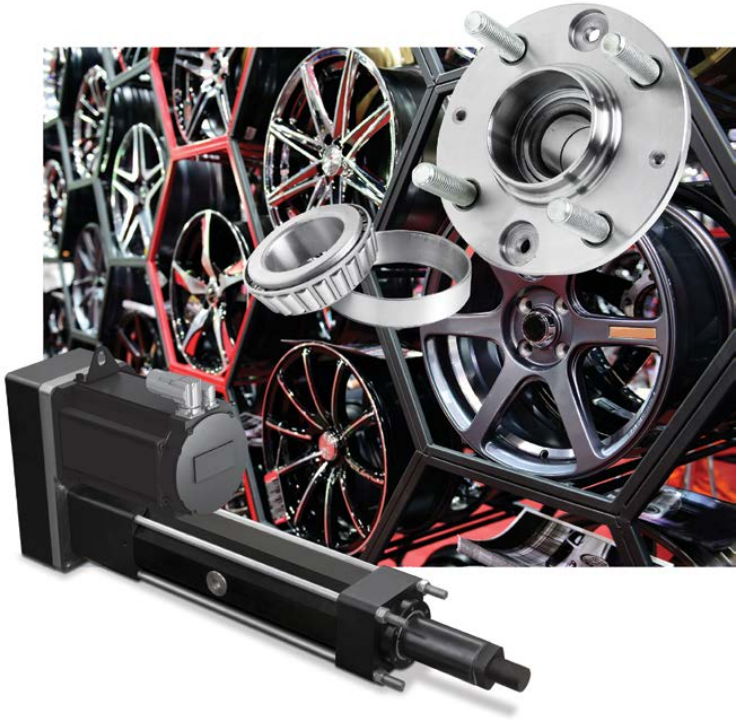
AUTO-030-E

APPLICATION SOLUTION:	Wheel Bearing Press



Product Family: Electric
Product Used: RSX Extreme Force Electric Linear Actuator
Product Type: Standard

Application Requirements:
Stroke: 300 mm (12 in)
Force: 75 kN (17,000 lbf)

Application Description:
Wheel bearing press.

Challenge:
An OEM of wheel bearing presses for the automotive market wanted to replace hydraulic cylinders to improve process control, reduce energy consumption and eliminate hydraulic fluid leakage. Although the hydraulic system provided the necessary force during changeover from one wheel size to another, the operators of the machine had to make multiple adjustments to dial-in the performance. Each changeover resulted in lost production time and rework. In addition, the hydraulic power unit had to run continuously which consumed large amounts of energy.

Tolomatic Solution:
An Tolomatic RSX extreme force electric linear actuator was selected to provide consistent, repeatable force and eliminate the need for operator changeover intervention. The servo controlled RSX actuator allowed the OEM to create quick and easy changeover procedures to accommodate any wheel size. The 80% efficiency of the servo system was significantly higher than the 40-50% efficiency of the previous hydraulic system, which allowed for substantial energy savings.

Customer Benefit:
- Consistent force performance for better process control
- Quick and easy changeovers increased production
- Elimination of messy and potentially dangerous hydraulic fluid leaks
- Increased system efficiency for significant utility cost savings