EXLAR a Curtiss-Wright Company

Application Note

Riveting, Fastening or Joining Machine Retrofits

Consistent Performance, Shortened Cycle Times

Riveting, fastening, and joining processes require high forces to squeeze, pierce and join high-strength materials to form a strong joint. Exlar's electric linear actuators provide the ideal solution!

Replacing the cumbersome hydraulic systems or large ball screw mechanisms on your fastening machines could give you a significant performance improvement.

The Benefits of Electric Actuators

• With an Exlar actuator you will save space. The brushless servo motor and linear actuator are integrated into a single unit with a smaller footprint than many hydraulic, pneumatic or ball screw systems.

• Cycle rates can be increased through the high speed capability of Exlar's linear actuators - speeds as high as 40 linear inches/second, and the control benefits of servo technology.

• Your rivet upset force will be consistent, and produce more repeatable rivet height because of the inherent accuracy and repeatability of an electro-mechanical servo-based system.

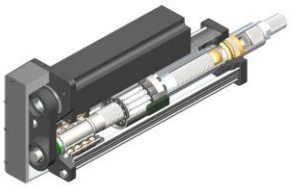
• An Exlar electric linear actuator provides a higher mechanical stiffness than most other actuator solutions. This results in low losses and repeatable fastener height.

Benefits (continued)

• Low maintenance and long life are certain benefits of an electric actuator system. A roller screw actuator provides as much as 15 times the life of similar size ball screw actuators. Minimize downtime with a system designed for the rigors of continuous duty, high velocity, and high force.

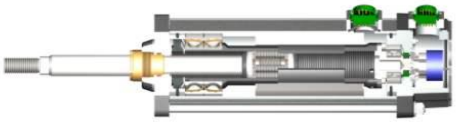
• The high shock load capacity of Exlar's roller screw actuators allows them to act directly as The upset force in the riveting, fastening or joining application.

Exlar Products



Exlar FT Series actuators offer motor options tailored to your exact requirements. Stroke lengths to 8 feet and forces to 40,000 lbs make this actuator suitable for high force applications.

Exlar GSX Series, an integrated unit, is capable of forces to 25,000 lbs and strokes from 3 to 18 inches.



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Contact us at 952-500-6200 or email info@exlar.com to discuss your application.
You may also visit www.exlar.com to locate the sales rep nearest you.

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