



## MECHANICAL DEVICES



## Rod Style Actuation: A Project's Push & Pull

Rod style actuators are your best choice when you need a load pushed or pulled. iMotion partners with Exlar and other manufacturers to provide high performance rod style actuators. iMotion utilizes these products and their various other product lines to provide engineered solutions that ensure your applications are high quality, efficient and cost effective.



Exlar Actuation Solutions designs and manufactures Exlar® electric roller screw linear actuators, rotary servo motors, and integrated control solutions for motion control for a broad range of applications.

Their linear actuator technology provides an efficient electro-mechanical replacement for your hydraulic or pneumatic cylinders with forces up to 40,000 pounds force and linear speeds up to 60 inches per second.



### Exlar® Roller Screw Actuators

There are significant operational differences between a planetary roller screw and a ball screw. In a ball screw, the steel balls contact one another and rotate, with mating surfaces moving in opposite directions. Even when well-lubricated, the resulting friction creates significant heat and wear as rotational speeds increase. In a roller screw, the planetary rollers are constrained by journals at each end of the roller. Since one roller never touches another, friction is eliminated.

### Advantages of Roller Screw Technology

- Higher speed for increased efficiency and productivity
- Greater load distribution for higher load capacity and longer life



### Power Your Designs

iMotion carries numerous rod style and other actuator options that help power your designs. No matter the industry, with any level of load, we are glad to help you find an actuator that fits both your application and your budget.



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