

SMALL CYLINDERS LEAD TO LARGE SAVINGS

Efficient energy usage cuts running costs and benefits the environment

At the forefront of every industry's business plan are cost-saving solutions, beginning with energy efficiency. Now is the time to think small – at least as far as actuators go. As the next generation of cutting-edge technology emerges, John Henry Foster is partnering with Intelligent Actuator America, Inc. (IAI) to introduce the Mini-ROBO Cylinder®, a new motion control system that provides unique linear and robotic components.

ENERGY AND PRODUCTIVITY BENEFITS

- Improves overall energy efficiency
- Xcel Energy Rebates
- Reduces overall production costs
- Effective energy efficiency is as high as 80% - 90%
- Lower "down time"
- Versatility allows one actuator to perform multiple functions
- Green automation benefits the environment

FEATURES OF THE MINI-ROBO CYLINDER

- Lower maintenance time
- Reduces costly air leakage
- Smaller and space-saving
- Easy-to-make adjustments
- Flexible
- Greater control
- Longer life - up to 10,000,000 cycles

Longer Life!
Up to
10,000,000
Cycles!

The Mini-ROBO Cylinder is designed with a smaller footprint. Similar to an air cylinder and easy to use, the small format makes the transition to electric seamless. The 24 VDC electric actuator's controller package mimics the valve setup of an air cylinder. The difference - and advantage - of using an electric cylinder is that force and speed can be accurately adjusted. Those features, along with position feedback, make these products attractive to the user that's looking for increased controllability in any application.



Lower running costs by 1/3 and up to 1/10th of air cylinders with IAI Electric Actuators.

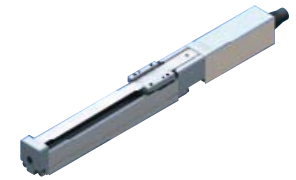
Energy is not a fixed cost, but rather **a variable cost.**

TYPES OF MINI-ROBO CYLINDERS

John Henry Foster offers various types of Mini-ROBO Cylinders, including slider, rod, table and linear servo.

SLIDER

The slide design enables a user to push or carry a load within the footprint of the actuator, which can be critical when work space is at a premium. In addition, because of its built-in support, the slider is capable of longer stroke lengths. Popular applications include part transfer and table indexing.



SLIDER

ROD

The rod design is beneficial for higher push force. Typical applications include pushing a guided load, clamping and press fit.



ROD

TABLE

The table design incorporates a guide to allow for greater overhang of a load and mounting versatility.



TABLE

LINEAR SERVO

Linear servo style actuators have a low friction design that allows for greater accelerations (2Gs) and longer cycle life. Applications where short cycle times are desired are well suited for this style of actuator.



LINEAR SERVO

NEW 2 AND 3 POINT CONTROLLERS

The new line of position controllers from IAI continues to incorporate the force and position control of previous lines but at a reduced implementation cost. These controllers are also sold with an IP53, dust-proof rating for installation on the work floor near the actuator, similar to the installation of an air valve.



2 AND 3 POINT CONTROLLERS

Is your leak costing you?

	Size	Cost per Year
●	1/16"	\$1,004.16
●	1/8"	\$4,022.40
●	1/4"	\$16,093.44

Costs calculated using electricity rate of \$0.096 per kWh*, assuming constant operation and an efficient compressor. *Cost adjusted for average commercial retail price of electricity (Nov. 2007)

John Henry Foster (www.jhfoster.com) is dedicated to serving our clients with the most cutting-edge products available on the market today. With over 70 years of experience, we are one of the Midwest's leading compressed air systems distributors and service providers and are uniquely qualified to assist our clients from design to build. We provide both capital and pneumatic components consultatively, allowing us to partner with both the supply and demand sides of compressed air systems.

Our team of experts provides customized solutions that impact our clients' consistency, reliability and profitability, while continuing to demonstrate our knowledge of the latest industry trends and solutions. Headquartered in Eagan, Minn. with a facility in Fargo, N.D., John Henry Foster employs over 75 technical, service and professional staff.