

The Intelligent Solution



DISCERNING ENGINEERS ALL OVER THE WORLD CHOOSE IAI'S ROBO CYLINDER

According to independent research done by Fuji Research Institute, IAI has **56.8%** of the world market share for electric linear actuators. (2006 Data) The quality and innovative products of IAI has been embraced by many businesses around the world to deliver high quality automation to their business models.

IAI's extensive ROBO Cylinder lineup will extend your possibilities and is your perfect solution by maximizing your ROI with proven reliability, energy efficiency and long maintenance-free intervals. **Contact us regarding your application today!**

Built-In Motor Specification:
Direct connection between the motor and the ball screw offers shorter actuator length for space-limited applications.

Easy Programming: Acceleration and deceleration can be set independent of each other, providing excellent control of the work. Dramatically reduce work damage and error.

Trunnion

Knuckle Joint

Coupling Motor Specification:
Optimized for fast and easy motor change-outs. Reduce downtime and maximize your return.

Guide Rails: Durable internal guide rails handle the demands of increased moment. Create multi-axis systems tailored to your specific needs.

Stainless Steel Dust Strip: Keeps contaminants out of the system, prolonging actuator performance and efficiency.

Ball Screw Lubrication: The AQ Seal is engineered to provide precise lubrication to critical points and will ensure optimal maintenance-free operation.

Slider Type Actuators:
Speeds of up to 1500 mm/s and stroke lengths of 1200 mm, the slider type actuator performs flawlessly in a many applications.

Rod Type Actuators: Mounts like an air cylinder and operates at speeds of up to 800 mm/s at strokes of 300 mm offering smooth transitions unseen with air cylinders. With up to **1500** positioning points, you can produce a variety of products on the same automation line.

Coupling Motor Specification:
Optimized for fast and easy motor change-outs. Reduce downtime and maximize your return.

Foot Bracket

Reverse Motor Specification:
Maximize your workspace usage while keeping top performance.

Push Force: IAI's Ultra-High Thrust actuator provides up to 2T (19,600N) of laser precise force (± 0.01 mm). Adjustments that were once difficult with mechanical presses and hydraulic presses are all made simple with easy variable changes.

Foot Bracket

Clevis



IAI Energy Efficiency Enhancements

Full servo control mode

In this mode, current to the motor is reduced to $\frac{1}{2}$ to $\frac{1}{4}$ in standstill state. It provides an effective way to suppress power consumption when the motor remains in standby position.

Automatic Servo Off Mode

Once positioning is completed, the servo will turn off automatically after a specified time. (User set) Since holding current does not flow while the servo is off, power consumption is reduced. (External force must not be applied while the servo is off.)

Operation:
Push motion and teaching operations can easily be configured to your applications

Safety:
Conforms to safety category 4 (CE/ANSI)

Axes:
Control up to 6 axes

Power:
Total connectable wattage of 2,400W with 3-phase 200VAC

Positioning:
Positioning points of up to a staggering 4,000 points.

Interpolation:
Perform precise arc interpolation and path operation by connecting two axes.

Positioning:
Supports positioning points of up to 1,500 points

Communications:
A single controller can handle the actuator operation and communication with external equipment.

Axes:
Control one or two axes



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ISO 9001:2000

In our uncompromising pursuit for "Quality," we have been certified for ISO 9001:2000 and JIS Q9001:2000 by an independent auditor. We at IAI are constantly improving our methods to produce quality products and services that surpass customer expectations.

