

Product Overview

Industrial Automation Robots

ELECYLINDER Available now!



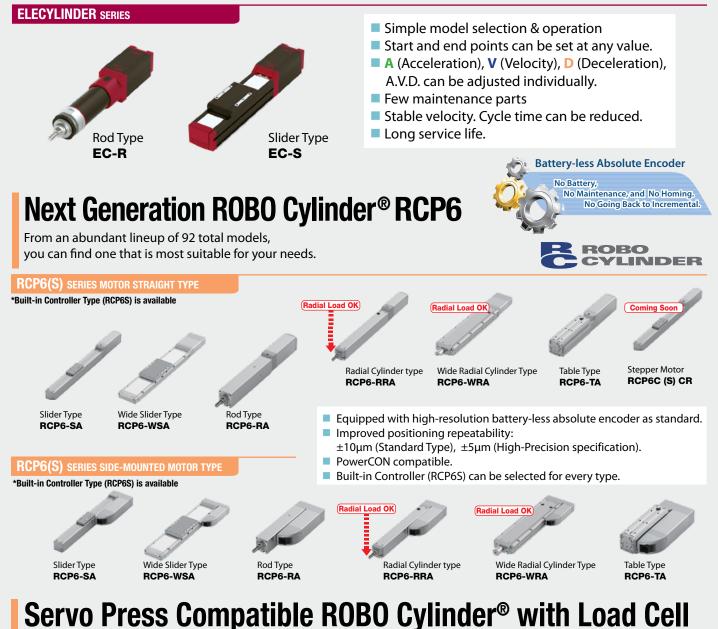


www.IntelligentActuator.com

Advancing into a NEW ERA switching Air to ELECYLINDER

Designed to move between two points just like Air Cylinder Speed / Acceleration / Deceleration can be set in just 5 minutes.





Compact and low-thrust rod type actuator that can even be used for simple pressing. The high-precision position control enables easy adjustment of the push force and the position control, typically difficult for hydraulic equipment. 8 types from a range of 20N-50,000N are available.





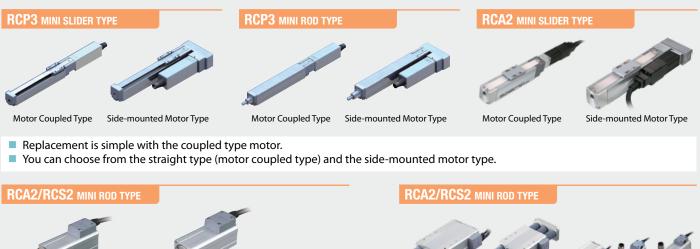
When an XSEL controller is used, you can combine three or more axes.

Compatible with DeviceNet, CC-Link, and other field networks.

Mini ROBO Cylinder®

Next-generation electric actuators, the solution for space constrained applications





Short Nut-mounting Type









Short Free Mounting Type with Single Guide

Short Free Mounting Type with Double Guides

Short Slide Unit Type with Double Guides



Dust-proof / Splash-proof Type



Side-mounted Motor Type

You can choose between the slim motor coupled type and the short free mounting type, that has significantly reduced in length. Fou can choose between built-in guide type which allows for increased rigidity and straightness, or the external guide type which has significantly been reduced in size.



The built-in guide allows the actuator to hold overhung loads.

You can choose between the compact short type and the motor coupled type with longer stroke.



- a cross-section size of 12mm.
- The built-in encoder allows position control.
- By using linear motors, these actuators operate at a g-force (in speeds and acceleration force) of up to 2G.
- The slider and rod types are available. The slider-type has six different kinds based on size and stroke.
- The multi-slider type, which has two independently-working sliders installed on one axis, is available.

Single-axis Robots INTELLIGENT Intelligent actuators with high-speed and high-transfer capabilities High-rigidity Type Standard Type: ISB Simple Dust-proof Type High-rigidity Slim Belt-drive Type ISDB/ISPDB High-precision Type: ISPB (Steel-base) **Belt-drive Type** FS SSPA IF 👜 ISB/ISDB Series equipped with Battery-less Absolute Encoder as standard. ISB/ISDB Series equipped with 3x lead ball screws. Many variations are available to meet diverse applications. Vertical / Rotational Nut Rotational Type **Rotary Type** The guide is integrated with the base for the linear actuators. RS Integral Type: ZR NS **Cleanroom Types** Dedicated cleanroom types conforming to cleanliness class 10 Coming Soon Stepper Motor Stepper Motor Servo Motor High-performance Type Stepper Motor Servo Motor RCP5CR RCP4CR RCACR RCS2CR/RCS3CR ISDBCR/ISPDBCR RCP6C (S) CR Anti-static Type Gripper Type **Rotary Type ISDBCR-ESD** RCP2CR-GR RCP2CR-RT Ultra-compact Direct Drive A well sealed structure allows it to achieve a cleanliness class 10. SCARA Robot SCARA Robot SCARA Robot Motor A wide variety of products are available, from ROBO Cylinder® all IXP- C IX-NNC IX-NNC DDACR the way to single-axis actuators and SCARA robots. Splash-proof/Dust-proof Types These actuators offer protection conforming to IP54~IP67, and are a desirable solution when operated in adverse environments. Stepper Motor Radial Cylinder Type Stepper Motor Slider Type Stepper Motor Rod Type Stepper Motor Stepper Motor Slider Type



These actuators handle environments with extreme dust or water splashes. Many variations are available to meet diverse applications.

IXP- W

DDW

LSA Series Linear Servo Actuators A full lineup of linear servo actuators to meet your needs Maximum payload of up to 120kg and maximum strokes of up to 4m Shaft Type Small Type Medium Type Flat Type Large Type LSA-S LSA-H LSA-L LSA-N LSA-W High-speed and high-precision are kept even at long strokes. Supports high accelerations of up to 3G and maximum speeds up to 2.5m/s. Multi-slider type and synchronized operation are also available. **IXP Series PowerCON SCARA® Robots Battery-less Absolute Encoder** No Battery, No Maintenance, No Homing, and All models come standard with battery-less absolute encoders No Price Increase. No Going Back to Incremental. POWERCON SCARA ROBOT ARM LENGTH 180/250/350/450/550/650mm







- All models come standard with battery-less absolute encoders.
- 🚋 The encoder resolution has increased to 10 times that of the existing IXP.
- The cost of IXP is around half of the traditional models.
- Lighter than conventional models.
- The regular cycle time is about 60% shorter than conventional cartesian robots.
- Added 3-axis specification, 4-axis with gripper specification.
- Equipped with optimal speed and acceleration/deceleration settings.

IX Series SCARA Robots

The IX SCARA robots feature high performance and functionality

Dust-proof Type

SCARA ROBOT ARM LENGTH 250/350/500/600/700/800mm





Standard Compact Type

Standard Medium Type



Standard Large Type



Wall Type



Ceiling Type

- Achieves high speeds, payload and precision.
- Easy programming makes these actuators much more user-friendly.
- It supports a wide variety of arm lengths, ranging from 250mm to 800mm.

ULTRA-COMPACT SCARA ARM LENGTH 120/150/180mm



- The compact size of the robot allows you to reduce the size of your production equipment.
 - The rated payload of 0.2kg can be increased up to a maximum of 1kg.
- High-speed performance with a cycle time of 0.35sec.

SUPER-LARGE SCARA ROBOT ARM LENGTH 1,000/1,200mm



- Achieves high-speed, payload and precision.
 - Each arm length type can carry up to 50kg.
 - All high-speed performance with a standard cycle time of 0.66sec.



High-speed Type









2-axis Specification

2-axis Specification

3-axis Specification

🐺 Every model equipped with battery-less absolute encoder as standard.

👜 AC Servo Motor specification added to the series.

🌉 Max. payload: 🛛 X-axis: 30kg 🛛 Z-axis: 15kg (AC servo motor), Max. speed: 🛛 XY-axis: 1200mm/s 🖉 -axis: 40mm/s (AC servo motor)

4-axis Specification

👜 Improved positioning repeatability: ±0.005mm (AC servo motor) /±0.01mm(Stepper motor spec)

🚋 The SEL Program Generator eliminates the tedious work of program creation.

CT4 High-speed Cartesian Robots

High-speed cartesian robot that shortens assembly / inspection cycle times by operating at high speed, ensuring high rigidity, and demonstrating excellent straight moving performance.

- Maximum speed 2.5m/s, maximum acceleration /deceleration 3.2G.
- Acceleration is significantly improved (conventionally 0.3 ~ 1.0G) and standard cycle time is reduced by 32% compared to conventional cartesian robots.
- Rotational axis specification and pick & rotate specification are added to the series.

Cartesian Robots

Pre-configured cartesian robots that reduce installation and setup times

DDW, DDA Direct Drive Motors

3-axis Specification

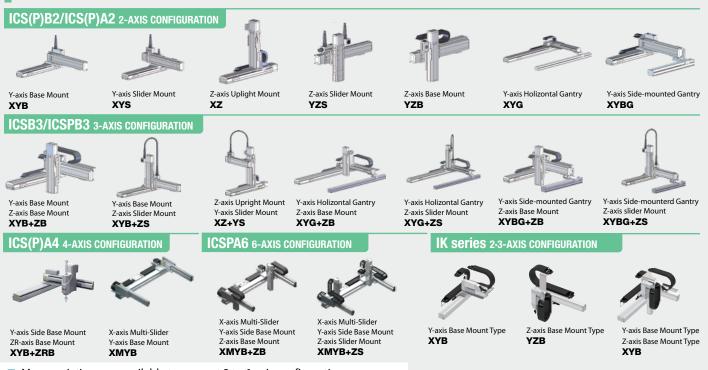
4-axis Specification

High speed/payload/precision, easy control, and compact: A direct drive motor that achieved high cost-performance.



Positioning repeatability ±0.00103 degree (±3.7s), Index accuracy ± 0.00833 degree (±30s) with SCON-CB & High resolution type.(DDA)

Maximum speed of 1,800°/s and acceleration/deceleration of 6.0G can make faster positioning time possible.(DDA)

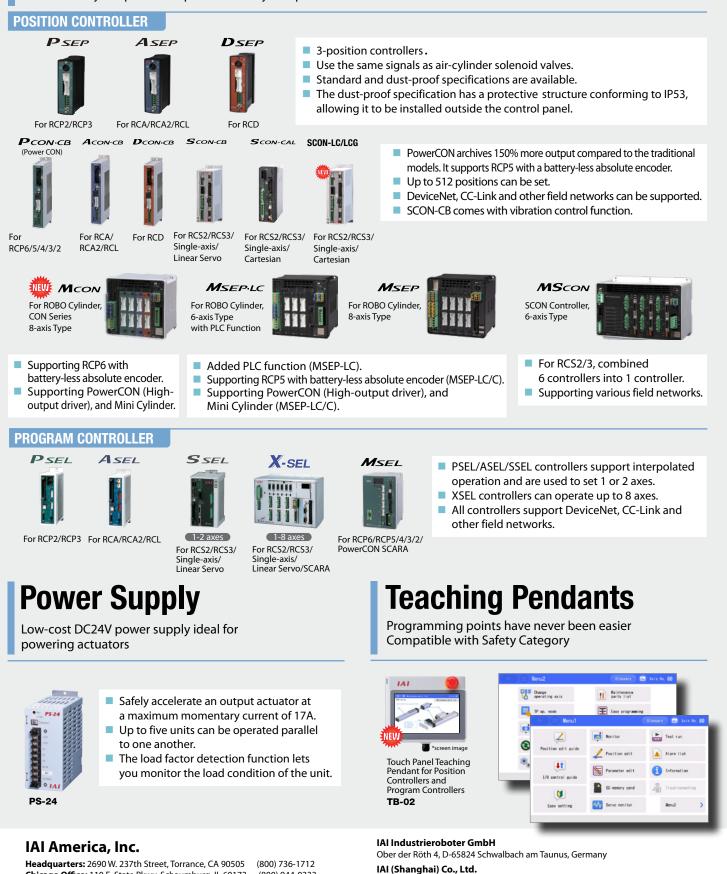


- Many variations are available to support 2 to 6-axis configurations.
- The multi-slider types (ICSPA4/ICSPA6) let you reduce space and cycle time.
- Also available are models with rotational axis(es) additions.
- Any models can be customized to meet your specific needs.
- High resolution Battery-less Absolute Encoder is available.

Controllers

A wide variety of operational patterns to fit your specific needs





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The information contained in this product brochure may change without prior notice due to product improvements.