www.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru

Industrial Automation Robots

Product Overview IAI ROBOT LINEUP



www.intelligentactuator.com

Micro Slider

(A) Max Stroke (A) Max Speed (B) Max Payload (C) Repeatability

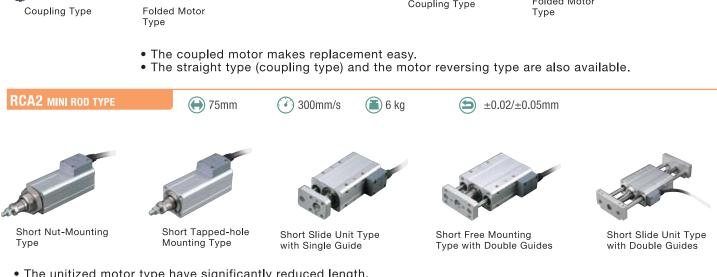






Next-generation electric actuators, the solution for space constrained applications





• The unitized motor type have significantly reduced length.

Micro Slider Long Stroke Type

• If an application requires extra rigidity and linearity, you can choose from single and double built-in guides. The non-guide types allow external guide(s) to be attached, which help significantly reduce the actuator size.



- With the use of linear motors, these actuators can operate at high speeds and high acceleration/deceleration with G-forces up to 2G.
- Slider and rod types are available. The slider type is classifed into six sub-types according to size and stroke.

Micro Cylinder

• The multi-slider type has two sliders installed on one axis, where both sliders can be operated separately.

ROBO Cylinder®



The affordable high-precision electric actuators reduce your running costs to 1/5 of a pneumatic system

ROBO Cylinders are high-performance electric actuators with a ball screw, linear guide and AC servo motor or DC servo/stepper motor. These next-generation actuators offer multi-point positioning capability and speed/acceleration change function unseen with air

ERC2 SERIES CONTROLLER INTEGRATED TYPE



- The ERC2 Series have built-in controllers which simplify set up and use
- High-precision, performance and rigidity all in an affordable package





Three Finger Gripper

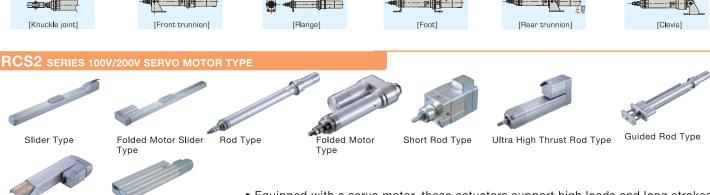
Arm Type

- High push force is acheived with the use of stepper motors.
- Many different sizes and variations are available to meet a wide range of applications.

RCA2 SERIES Coupling Type Folded Motor Type Guided Rod Type Slider Type Folded Motor Type Slider Type

- Shaped similar to a rod-type air cylinder, these actuators accept various mounting brackets that are used on air cylinders.
- Three motor installation methods are available to choose from.
- An optional home check sensor can be set.

Flat Type

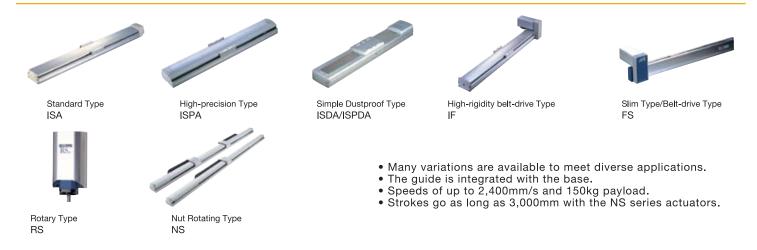


- Equipped with a servo motor, these actuators support high loads and long strokes.
- When an XSEL controller is used, you can combine three or more axes.
- Connectable to DeviceNet, ProfiBus, ModBus and CC-Link.

Single Axis Robot



Intelligent actuators with high-speed, high-transfer capabilities



Cleanroom Type

Dedicated cleanroom types conforming to cleanliness class 10



Splash proof/Dust proof Type

Protection conforming to IP54 \sim IP67, these actuators are the solution when the environment is less than desirable.







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

TT Table Top Type









Gated 3-axis Type



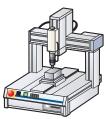
Cantilever 2-axis Type



Cantilever 3-axis Type

- These all-in-one actuators are ideal for cell production and R&D applications. The 200mm x 200mm and 400mm x 400mm type are available as standard products.
- The TT is equipped with a rigid base, servo control motor and an encoder to prevent mis-stepping.
- All models come with a built-in XSEL controller which is popular for its ability to achieve high tracing precision and constant speed operation.





Coating



Soldering



Circuit board inspection



Cartesian Robots

Get your ROI quickly with preconfigured cartesian robots that reduce installation and setup times

ICSA2/ICSPA2 2-axis combination



Y-axis base fixed type XYB



Y-axis slider fixed type XYS



Z-axis base fixed type XZ



Z-axis slider fixed type YZ



Gantry Type XYG

ICSA3/ICSP3 3-axis combination



XYB+Z axis type



XYG+Z axis type



X-axis nut rotation type X-axis linear servo type

ICSPA6 6-axis combination



X-axis nut rotation, multi-slider type X-axis linear servo, multi-slider type

IK Series Multi-axis ROBO Cylinder kits



ZR Unit



- Many variations are available to support 2 to 6 axis configurations
- The multi-slider types (ICSPA4/ICSPA6) let you reduce space and cycle time
- We can also design specifications with rotational axis(es)
- Customize the optimum model that suits your specific needs

LSA Series Linear Servo Actuator

A full lineup of linear servo actuators to meet your need. Max load capacities of up to 120kg and max strokes of up to 4m.



IX Series SCARA Robots

The IX SCARA robots feature high performance and functionality



SCARA Robot Arm Length 250/350/500/600/700/800 mm



Standard Compact



Standard Medium Type



Standard Large



High-speed Type



Wall Type



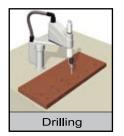
Ceiling Type

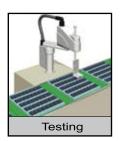
- Achieves high speeds and repeatability.
- Easy programming makes these actuators much more user-friendly.
- Many variations are available to support arm lengths of 250 to 800mm.

Ultra-Compact SCARA Arm Length 120/150/180 mm



- The compact size of the robot allows you to reduce the size of your production facility.
- The rated loading capacity is 0.2 kg, and can be increased to 1 kg.
- High-speed performance with a cycle time of 0.35 sec.







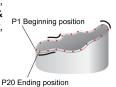
Z-Axis Push Function

Enables you to easily apply compression force and torque.



3D Path Capability

Faster CPU speed and rigid robot construction, along with 3D arc motion & path control, allow for easy, accurate path tracing.





Interference Check Zones

A maximum of 10 user-defined check zones can be set inside the robot's operating range.

Controller

Wide Operation Patterns for your Specific Needs

Position Controllers and Program Controllers

3-Position Controller

PSEP







- Use the same signals as air-cylinder solenoid valves
- Standard and dustproof specifications available
- The dustproof specification has a protective structure conforming to IP53, allowing it to be installed outside the control panel

Position Controller



RCP2/RCP3 Position Controller

ROBO NET



RCP2/RCP3/RCA/RCA2/RCL Network Controller



RCA/RCA2/RCL Position Controller



Simple Absolute



- Cartesian - Linear Servo Position Controller

- PCON/ACON controllers are available in: Positioner/Solenoid valve/Pulse-train input/Serial communication types
- SCON controllers are an all-in-one controller that conforms to all control methods
- Up to 512 positions can be set
- · DeviceNet, CC-Link and other field networks can be supported





Expansion Unit

- The simple absolute unit is an encoder backup that connects to a PCON/ACON controller to eliminate the need for home return
- ROBONET minimizes wires and operates on DeviceNet, CC-Link or other networks
- Link and operate up to 16 axes

Program Controller



RCP2/RCP3 Program Controller 1~2 axis



RCA/RCA2/RCL Program Controller 1~2 axis





RCS2 - Cartesian - Linear Servo Program Controller

- PSEL/ASEL/SSEL controllers support interpolated operation and are used to set one or two axes
- XSEL controllers can operate up to 6 axes
- All controllers support DeviceNet, CC-Link and other field networks

Teaching Pendant

Programming points have never been easier. (ANSI type offering enhanced safety is available)











ASEP/ACON/RACON SCON/ERC2* CON-PT (Standard) CON-PD (Enable Switch type) CON-PG (Global Safety type)

Power Supply

Low-cost 24-VDC power supply ideal for powering actuators



- Accelerate an actuator with maximum momentary current output of 17A
- Up to 5 units can be operated in parallel
- The load factor detection function lets you monitor the load condition of the unit

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IAI America, Inc

U.S. Headquarters: 2690 W. 237th Street Torrance, CA 90505 (800) 736-1712
Chicago Office: 1261 Hamilton Parkway Itasca, IL 60143 (800) 944-0333
Atlanta Office: 1220 Kennestone Circle, Suite E Marietta, GA 30066 (888) 354-9470

IAI Industrieroboter GmbH

Ober der Röth 4, D-65824 Schwalbach am Taunus, Germany

