

# **Product Overview**

Industrial Automation Robots



www.IntelligentActuator.com





Max Speed



Max Payload





# Mini ROBO Cylinder

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



- The coupled motor makes replacement easy.
- The straight type (motor coupled type) and the side-mounted motor type are also available.



- The unitized motor type has significantly reduced in length.
- 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 classified into six sub-types according to size and stroke.
- 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 cylinders.





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





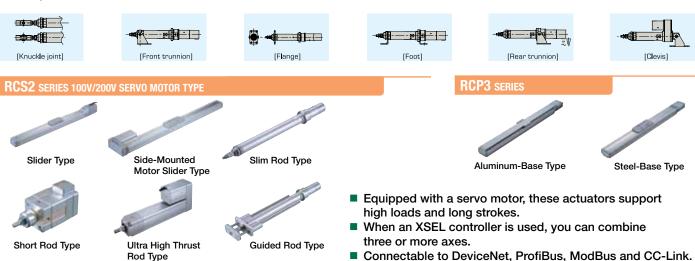
### Motor Coupled Side-Mounted **Guided Rod Type** Slider Type Side-Mounted Rod Type Motor Rod Type Motor Type



Table Type



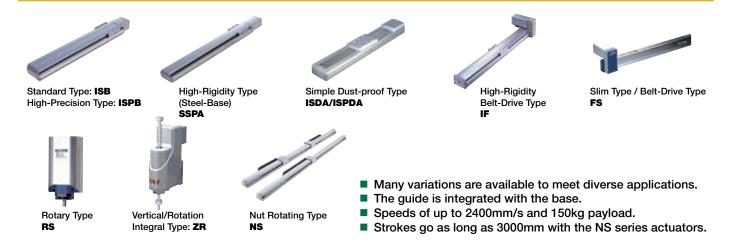
- Shaped similar to a rod-type air cylinder, these actuators accept various mounting brackets that are used on air cylinders.
- Three motor installation methods are available to choose from.
- An optional home check sensor can be set.



# **Single Axis Robot**

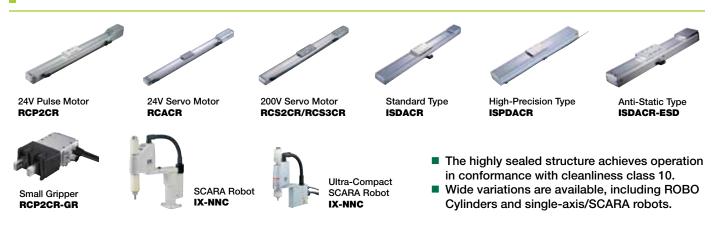


Intelligent actuators with high-speed, high-transfer capabilities



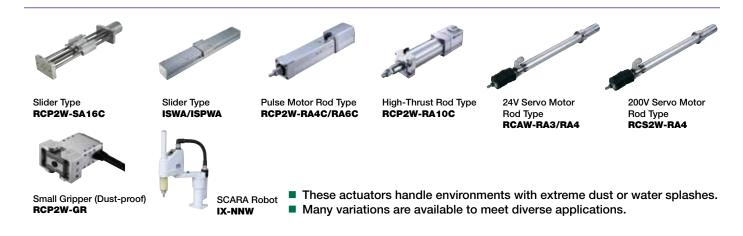
### **Cleanroom Type**

Dedicated cleanroom types conforming to cleanliness class 10



# Splash-proof/Dust-proof Type

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



## TT Table Top Type









3-axis Gate Type

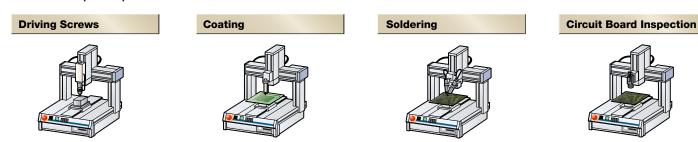


2-axis Cantilever Type



3-axis Cantilever 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.



### **Cartesian Robots**

Get your ROI quickly with pre-configured cartesian robots that reduce installation and setup times



- 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 Type



Standard Medium Type



Standard Large Type



High-Speed Type



Wall Type



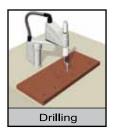
Ceiling Type

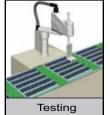
- Achieves high speeds and repeatability.
- Easy programming makes these actuators much more user-friendly.
- Many variations are available to support arm lengths of 250 to 800mm.

### 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.





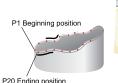


### **Z-axis Push Function**

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 operation range.

### **Controller**

Wide operation patterns for your specific needs

### 3-POSITION CONTROLLER







- A MEC Power supply, acceleration/speed change function included.
  - Operation as easy as any air-cylinder system's.

RCP2/RCP3 RCA/RCA2/RCL







RCP2/RCP3 RCA/RCA2/RCL

SCON-CA

Use the same signals as air-cylinder solenoid valves.

- Standard and dust-proof specifications are available.
- The dust-proof specification has a protective structure conforming to IP53, allowing it to be installed outside the control panel.

#### **POSITION CONTROLLER**



BCP2/BCP3 Position Controller



RCA/RCA2/RCI Position Controller

SCON

RCS2/RCS3 - 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.
- SCON-CA comes with force control and vibration control functions.

#### **ROBO NET**



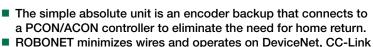
RCP2/RCP3/RCA/RCA2/RCL Network Controller



Simple Absolute



**Expansion Unit** 



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/RCS3 - Cartesian - Linear Servo **Program Controller** 

- - 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.

■ PSEL/ASEL/SSEL controllers support interpolated

# **Power supply**

Low-cost 24VDC 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.

# **Teaching Pendant**

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



PCON/ACON/SCON/ ROBONET/PSEP/ASEP/PMEC/AMEC **CON-PT-M-ENG** 





PCON/ACON/SCON/ ROBONET **RCM-E-ENG** (Simple Teaching Pendant)



Atlanta Office: 1220 Kennestone Circle, Suite 108, Marietta, GA 30066 (888) 354-9470

