

# IAI ROBOT LINEUP GUIDE

A simplified guide that summarizes the IAI Products Lineup. It presents the main products categorized by actuator type.







### Advancing into a NEW ERA switching Air to ELECYLINDER

Elecylinder can be operated only by ON/OFF signal like solenoid valve. It's easy to operate for beginners. You can adjust A(Acceleration), V(Velocity), D(Deceleration) individually by input percentage. It can start / stop at high speed smoothly. Cycle time and trouble recovery time will be reduced.





Built-in controller available

# Slider Type Body width (mm): 63~73 Stroke (mm): 50~500 Maximum payload (kg): Horizontal 51/Vertical 19

### High Rigidity Slider Type Body width (mm): 63~75 Stroke (mm): 50~800 Maximum payload (kg): Horizontal 51/ Vertical 25





### **Table Type**

Body width (mm): 78 Stroke (mm): 30, 50 Maximum payload (kg): Horizontal 8/ Vertical 2.5

EC-TC/TW

**Rod Type with Guide** 



Small type

EC-S3

EC-S4





### High Rigidity Radial Cylinder



# **Newest Additions to the Series**



Small type (Radial Cylinder) EC-RR3 EC-RR4



EC-RR7□W

Splash-proof type (Radial Cylinder) EC-RR6□W



Side-mounted motor EC-S6□R EC-S7□R



High rigidity (Radial Cylinder) EC-RR6□AH EC-RR7□AH



High rigidity (Slider type)

EC-S6□AH EC-S7□AH



Side-mounted motor

EC-RR6□W EC-RR6□R EC-RR7□W EC-RR7□R

EC-RR6□AHR EC-RR7□AHR

# ROBO Cylinder 2

### These affordable, highly precise and high rigidity actuators have 1/5th the running cost of a pneumatic system.



Robo Cylinder is high-performance electric actuator equipped with a ball screw, linear guide, and servo motor. These next-generation actuators has multi-point positioning capability as well as the ability to change speed and acceleration, unlike anything seen with air cylinder.





### Suitable for moving something horizontally and for a long distance.

Body width (mm): 22~160 Stroke (mm): 25~2600 Maximum payload (kg): Horizontal 100 / Vertical 55



**Rod Type** 

Please choose this type when moving something vertically or carrying something with chuck etc. It's also suitable for push force or holding a workpiece.

Body width (mm): 12~200 Stroke (mm): 10~800 Maximum payload (kg): Horizontal 300 / Vertical 150 (Except High payload)



### **Table Type**

Use this type when moving a workpiece in a vertical direction or if a moment load is applied.

Body width (mm): 32~95 Stroke (mm): 20~390 Maximum payload (kg): Horizontal 30 / Vertical 24





RCP6(S)-TA R









Compact Type

RCS2-TCA/TWA/TFA

### ROBO Cylinder High precision, high rigidity, and the running cost of air cylinders High precision, high rigidity, and low cost with only one-fifth of

### **Rotary Type**

Use this type when changing the direction of the workpiece or for precise positioning as an index.

Body width (mm): 45~233 Maximum speed (degree/s): 266~1200





RCP6-RTFML

Flat Type

**Vertical Type** 



Rotary Type

**Direct Drive Motor** 

Body width (mm): 180 Maximum speed (degree/s): 1800



**Gripper Type** 

### Suitable for gripping and lifting up the work.

RCP2-RTC

Stroke (mm): 2-finger 4~260, 3-finger 10,14, 38





Ultra Compact Slide Type



GRM-S/M EG (Outer diameter grip) S/M IG (Inner diameter grip)



RCD-GRSNA

**Lever Type** 



RCP2-RTB

RCP6(S)-GRST□C





RCP6(S)-GRST□R





RCP6-GRT



Slide Type



RCP4-GRL

### 3-finger Slide Type



RCP2-GR3S



3-finger Lever Type

RCP2-GR3L

### **Rotary Chuck Type**

Rotation capability with the rotary and gripping capability with the gripper are integrated into one unit. 24<sub>v</sub>



RCP6-RTCK

## Others

RCP4-GRS



### Stopper Cylinder

Body width (mm): 106.5~108 Stroke (mm): 20~30



RCP4-ST

### ZR Unit (Vertical/Rotation Integrated Type)

Body width (mm): S/122, M/138 Maximum payload (kg): S/3, M/6



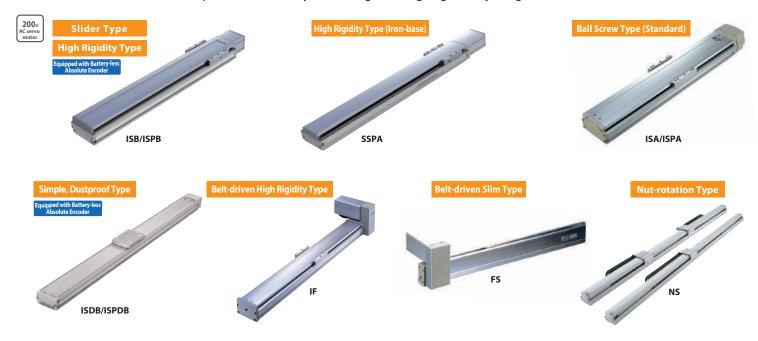
### **Wrist Unit**

Body width (mm): S/136.5, M/136.5 Maximum payload (kg): S/1, M/2



# Single-axis Robot Intelligent actuator with high speed and high transfer capabilities

The single-axis robot is a high-precision positioning system with a built-in base, linear guide, ball screw and servo motor and can be used to help reduce the cost by minimizing the designing and adjusting time.



## **Cleanroom Specification**

You can use them for the carrier and positioning in cleanroom.

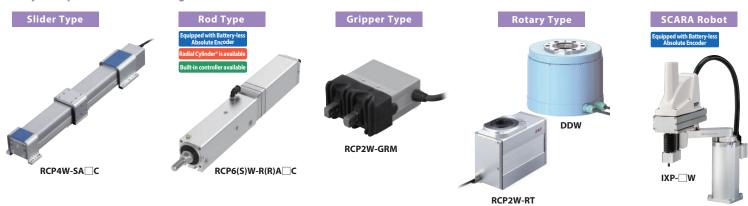
Dedicated cleanroom types conforming to cleanliness class 10.



# **Dustproof/Splash-proof Specification**

These actuators handle environments with extreme dust or water splashes.

They offer protection conforming to IP52~67.



## **LSA series Linear Servo Actuators**

Suitable for long stroke with high-speed and high acceleration/deceleration.



# **SCARA Robot**

200v AC servo motor

Standard Type

SCARA Robot suitable for transferring lightweight work with high-speed.

IXA Arm length (mm): 300 to 600 Standard cycle time (S): 0.26 to 0.38 Maximum payload (kg): 3 to 12



IXP (Power Con Type) Arm length (mm): 180~650 Maximum payload (kg): 6



IX Arm length (mm): 120~1200 Maximum payload (kg): 20



# **Table Top Robot**

Suitable for cell productions, R&D applications, and more.



You can choose from pulse motor and servo motor specification. Body width (mm): 401~755.8 XY axis Stroke (mm): 150~500

# Cartesian Robot Many variation are available by combining single-axis robots.

Realize high rigidity by ingenious mechanical design. Number of Axis: 2~6 Maximum payload (kg): 65



4-axis Cartesian with Rotational Axis Specification



#### 4-axis Cartesian + Pick & Rotate Specification

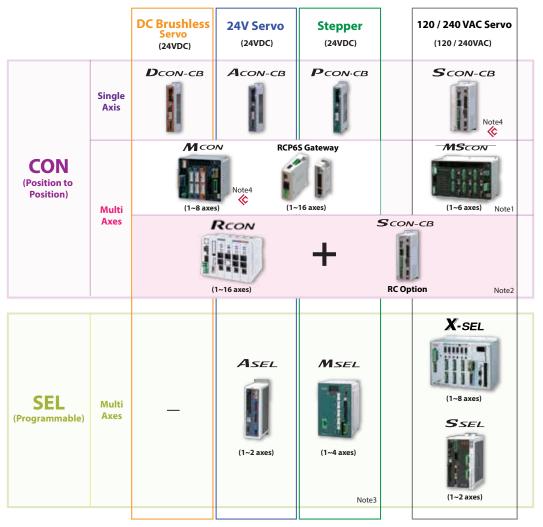


4-axis Cartesian Specification



### Controller

### Select the operational pattern based on the purpose of use.



Note1: SSEL (1~2 axes) has Positioner Mode. Note2: Additional SCON-CB RC Option required per axis. Note3: PSEL (1~2 axes) only supports RCP2 / RCP3 Note4: 🌾 LC-LADDER Free Ladder Programming Software is available for our controller with PLC function. Available with MCON-LC and SCON-LC

### FIELD NETWORKS

Note: The type of compartible networks may vary depending on the controller.

### Ether Net / IP Componet Device Net (













### **Power Supply**

Low-cost DC24V power supply ideal for powering actuators



- Safely accelerate an output actuator at a maximum momentary current of 17A.
- Up to five units can be operated parallel to one another.
- The load factor detection function lets you monitor the load condition of the unit.

**Available now!** PSA-24/24L



- Power sourse: Universal AC100V ~230V Continuous rated output: 240W/330W
- Peak output: 408W (17A)
- Compact size, smaller than PS-24

## Teaching Pendants

Programming points have never been easier Compatible with Safety Category



Touch Panel Teaching Pendant for Controllers TB-02



Touch Panel Teaching Pendant with wireless data setting function TB-03

\*screen image



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