

# 2025 IAI ROBOT LINEUP GUIDE

Product Lineup Catalog

ELECYLINDER®  
ROBO Cylinder®  
Industrial robots

[www.intelligentactuator.com](http://www.intelligentactuator.com)

Available now!

**RCP6 High Rigidity  
1500mm Long Stroke Type**

RCP6-HSA6X(C/R)  
RCP6-HSA7X(C/R)



**Compact ELECYLINDER**  
EC-CRP/CGD/CTC



**Compact Vertical Gripper**  
EC-GRBP8/GRBP8□W



**ROBO Pump®**  
RP-VPM

Coming soon!

**Programmable  
Multi-axis Controller  
XSEL2**



- CODESYS - PLC is not required
- OPC UA server standard
- EtherNet/IP scanner as standard
- Predictive & Preventive Maint. Functions
- Function blocks supported
- ELECYLINDER connection supported
- Tool function extended

# ELECYLINDER®

Simple yet high performance electric actuators that brings you profits.

Equipped with battery-less absolute encoder

Built-in controller type



ELECYLINDER®



ELECYLINDER can be operated only by ON/OFF signals like solenoid valves.

It's easy to operate for **2 positions.**

You can adjust A (Acceleration), V (Velocity) and D (Deceleration) individually by input percentage. It can start/stop smoothly at high speed.

No need to connect a PC or a teaching pendant.

Setting and trial operations can be performed by the ELECYLINDER alone.

**Built-in Digital Speed Controller Available**



**Wired Teaching Controller**  
TBD-1



**Wireless Teaching Controller**  
TBD-1WL



## Slider Type

Slider Type	Wide Type	Small Type	Ultra Compact
Body width (mm): 20-188 Stroke (mm): 25-2800 Max. payload (kg): Horizontal 400 / Vertical 80	Body width (mm): 100, 120 Stroke (mm): 50-500, 50-800 Max. payload (kg): Horizontal 44, 62 / Vertical 7, 13.5	Body width (mm): 20-44 Stroke (mm): 25-500 Max. payload (kg): Horizontal 18 / Vertical 6.5	Body width (mm): 30 Stroke (mm): 50-200 Max. payload (kg): Horizontal 2 / Vertical 0.7
EC-(D)S□(X)□A EC-(D)S□(X)□A/R	EC-(D)WS□ EC-(D)WS□□R	EC-(D)S□□A EC-(D)S□(X)□A/R	EC-SL3

Ultra Large		Belt Drive	High-Rigidity	
Large Slider Type	200V power supply for Large sliders	Long Stroke	High-Rigidity Slider Type	Side-mounted motor
Body width (mm): 100-188 Stroke (mm): 100-2800 Max. payload (kg): Horizontal 400 / Vertical 80	200V power supply for Large sliders	Body width (mm): 63-89 Stroke (mm): 300-2600 Max. payload (kg): Horizontal 25	Body width (mm): 60-80 Stroke (mm): 450-1500 Max. payload (kg): Horizontal 51 / Vertical 25	Body width (mm): 60-80 Stroke (mm): 450-1500 Max. payload (kg): Horizontal 51 / Vertical 25
EC-S□(X)	PSA-200	EC-(D)B□S(U) <b>24v Stepper Motor</b> EC-B8SS(U) <b>200v AC Servo Motor</b>	EC-(D)S□(X)□AH	EC-(D)S□(X)□AHR

## Rod Type

Rod Type	Radial Cylinder®	High-Rigidity Radial Cylinder®	Side-mounted motor available	Rod Type with Double Guide
Body width (mm): 60-70 Stroke (mm): 50-300 Max. payload (kg): Horizontal 80 / Vertical 19 Max. push force (N): 1094	Body width (mm): 40-110 Stroke (mm): 50-800 Max. payload (kg): Horizontal 35, 80, 300 Vertical 6.5, 19, 150 Max. push force (N): 263, 1094, 6000	Body width (mm): 60-70 Stroke (mm): 600-1000 Max. payload (kg): Horizontal 80 / Vertical 28 Max. push force (N): 1094	Side-mounted motor available	Body width (mm): 110-150 Stroke (mm): 50-300 Max. payload horizontal (kg): 60 Max. payload vertical (kg): 12.5 Max. push force (N): 449
EC-(D)R□	EC-(D)RR□ EC-(D)RR□□R	EC-(D)RR□X□AH	EC-(D)RR□□AH EC-(D)RR□□AHR	EC-SRG11 EC-SRG15

ELECYLINDER can be operated only by ON/OFF signals like solenoid valves. It's easy to operate for **2 positions**. You can adjust A (Acceleration), V (Velocity) and D (Deceleration) individually by input percentage. It can start/stop smoothly at high speed.



## Compact

20mm Slider Type	20mm Rod Type	Mini Rod Type	Mini Table Type
Body width (mm): 20 Stroke (mm): 25-300 Max. payload (kg): Horizontal 3 / Vertical 1.5	Body width (mm): 20 Stroke (mm): 25-300 Max. payload (kg): Horizontal 4 / Vertical 1.25 Max. push force (N): 47	Body width (mm): 30-180 Stroke (mm): 30, 50, 100, 150 Max. payload (kg): Horizontal 8-35 / Vertical 2.5-6.5 Max push force (N): 90-310	Body width (mm): 30-40, 80-90 Stroke (mm): 30, 50, 100, 150 Max. payload (kg): Horizontal 8-20 / Vertical 2.5-6.5 Max. push force (N): 90-310
<p>EC-S2      EC-S2R</p>	<p>EC-RR2      EC-RR2R</p>	<p>EC-GS4      EC-RP      EC-GD</p>	<p>EC-TC      EC-TW</p>

## Compact

## Others

Ultra Mini Rod Type	Ultra Mini Table Type	Rotary	Gripper	Stopper Cylinder
Body width (mm): 40 Stroke (mm): 10-50 Max. payload (kg): Horizontal 2 / Vertical 0.8 Max. push force (N): 17	Body width (mm): 30 Stroke (mm): 10-50 Max. payload (kg): Horizontal 2 / Vertical 0.8 Max. push force (N): 17	Body width (mm): 45-213.5 Max. swaying angle (degree): 330 Max. speed (degree/s): 600 Max. torque (N-m): 25.2 Allowable moment of inertia (kg-m <sup>2</sup> ): 0.49	Body width (mm): 35-130 Max. stroke (mm): both sides: 20-260 Max. grip force (N): both side: 28-1641	Body width (mm): 110, 150 Stroke (mm): 50
<p>EC-GD3</p>	<p>EC-T3</p>	<p>EC-RTC      EC-RTB4</p>	<p>EC-GRST3      EC-GRC6 EC-GRB (M/L)      EC-GRST7</p>	<p>EC-ST11/15 EC-ST15ME</p>

\*EC-GDS3 is a stopper cylinder.

## Dust/Splash-proof Specification

## Cleanroom Specification

Rod Type & Radial Cylinder®	Slider Type	Standard Type	High-Rigidity Type	Wide Type
Body width (mm): 60-70 Stroke (mm): 50-300 Max. payload (kg): Horizontal 80 / Vertical 19 Max. push force (N): 1094	Body width (mm): 60-70 Stroke (mm): 50-800 Max. payload (kg): Horizontal 51 / Vertical 19	Body width (mm): 35-73 Stroke (mm): 50-800 Max. payload (kg): Horizontal 51 / Vertical 19	Body width (mm): 63-75 Stroke (mm): 50-1500 Max. payload (kg): Horizontal 51 / Vertical 25	Body width (mm): 100, 120 Stroke (mm): 50-800 Max. payload (kg): Horizontal 62 / Vertical 13.5
<p>EC-RW</p>	<p>EC-S      EC-SR *Dust-resistant spec.</p>	<p>EC-(D)S(X)A/CR</p>	<p>EC-(D)S(X)AHCR</p>	<p>EC-(D)WS/CR</p>

## Field Network Connection Unit

## Teaching Pendant

## Conveyor Control Motor

Field network compatible remote I/O

Teaching Pendant with wireless option and Teaching pendant with dedicated power supply type are available.

3 types of pulleys: V ribbed belts, V belt and Round belt. Conveyor motor functions and rollers can be powered by CCM. Configured by PLC or R-Unit controller. No stopper needed.



REC



TB-03

TB-03E

ROBO Cylinder compatibility pendant is also available.



CCM

# ROBO Cylinder®

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.

This next-generation actuator has **multi-point positioning** capability as well as the ability to change speed and acceleration, unlike anything seen with air cylinders.







## Slider Type

Body width (mm): 22-160, Stroke (mm): 25-2600, Max. payload (kg): Horizontal 100 / Vertical 55

Standard Type	Side-mounted motor	Belt-drive Type	Standard Type	Wide Type / Standard Type
<p>Equipped standard with battery-less absolute encoder</p> <p>Built-in controller available</p> <p>24v Stepper motor</p>  <p>RCP6(S)-SA□C</p>	<p>Equipped standard with battery-less absolute encoder</p> <p>Built-in controller available</p>  <p>RCP6(S)-WSA□R</p>	<p>Equipped standard with battery-less absolute encoder</p>  <p>RCP5-BA□</p>	<p>Equipped standard with battery-less absolute encoder</p> <p>24v ACservo motor</p>  <p>RCA-SA□C</p>	<p>Equipped standard with battery-less absolute encoder</p> <p>200v ACservo motor</p>  <p>RCS4-WSA□C</p>
<p>Also available:</p> <p>High Rigidity RCP6-HSA□(C/R)</p> <p>Small RCP3-SA2□□</p>				<p>Also available:</p> <p>Standard Type RCS4-SA□□</p> <p>High Rigidity RCS4-HSA□C</p>

## Rod Type

Body width (mm): 12-200, Stroke (mm): 10-800, Max. payload (kg): Horizontal 500 / Vertical 300(\*RCS2-RA13R)

Standard Type	Wide side-mounted motor	Standard side-mounted motor	Wide Type
<p>Equipped standard with battery-less absolute encoder</p> <p>Radial cylinder available</p> <p>Built-in controller available</p> <p>24v Stepper motor</p>  <p>RCP6(S)-R(R)A□C</p>	<p>Equipped standard with battery-less absolute encoder</p> <p>Radial cylinder</p> <p>Built-in controller available</p>  <p>RCP6(S)-WRA□R</p>	<p>Equipped standard with battery-less absolute encoder</p> <p>Radial cylinder available</p> <p>200v ACservo motor</p>  <p>RCS4-R(R)A□R</p>	<p>Equipped standard with battery-less absolute encoder</p> <p>Radial cylinder</p>  <p>RCS4-WRA□C</p>

## Compact Type

<p>24v DC brushless motor</p>  <p>RCD-RA1DA</p>	<p>24v ACservo motor</p>  <p>RCA2-RN/GS/SD</p>	<p>200v ACservo motor</p>  <p>RCS2-RN/GS/SD</p>
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## Servo Press

Body width (mm): 40-200  
Stroke (mm): 110-520  
Max. push force (N): 50000

<p>Equipped standard with battery-less absolute encoder</p> <p>200v ACservo motor</p>  <p>RCS3-RA□R</p>	 <p>RCS2-RA13R</p>
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## Pulse Press

Max stroke (mm): 310-320,  
Max. push force (N): 300-2000

 <p>RCP6-RRR□R</p>
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## Table Type

Body width (mm): 30-80, Stroke (mm): 25-390, Max. payload (kg): horizontal 30 / vertical 24

Standard Type	Side-mounted Motor Type	Compact Type	Standard Type	Side-mounted Motor Type	Servo Motor 200V
<p>Equipped standard with battery-less absolute encoder</p> <p>Built-in controller available</p> <p>24v Stepper motor</p>  <p>RCP6(S)-TA□C</p>	<p>Equipped standard with battery-less absolute encoder</p> <p>Built-in controller available</p>  <p>RCP6(S)-TA□R</p>	<p>24v ACservo motor</p>  <p>RCA2-TWA/TFA</p>	<p>Equipped standard with battery-less absolute encoder</p> <p>200v ACservo motor</p>  <p>RCS4-TA□C</p>	<p>Equipped standard with battery-less absolute encoder</p>  <p>RCS4-TA□R</p>	<p>200v ACservo motor</p>  <p>RCS2-TCA</p>


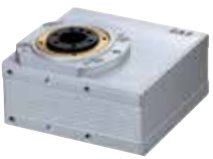





# ROBO Cylinder®

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











## Rotary Type

Body width (mm): 50-180, Maximum speed (degree/s): 266-1200




Hollow Type	Flat Type	Vertical Type	Rotary Type	Direct Drive Motor
<p>Equipped standard with battery-less absolute encoder</p> <p>24v Stepper motor</p>  <p>RCP6-RTFML</p>	 <p>RCP2-RTC</p>	 <p>RCP2-RTB</p>	<p>200v ACservo motor</p>  <p>RCS2-RTC□L</p>	<p>Body width (mm): 180 Max. speed (degree/s): 1800</p>  <p>DDA-LT/LH</p>

## Gripper Type

Stroke (mm): 2-finger 4-260, 3-finger 10, 14 (degree): 2-finger 180, 3-finger 19

Solenoid Type	Ultra Compact Slide Type	Long Stroke: Coupling Type	Long Stroke: Side-mounted Motor Type	Thin Slide Type
 <p>GRM-S/M EG (Outer diameter grip) S/M IG (Inner diameter grip)</p>	<p>24v DC brush-less motor</p>  <p>RCD-GRSNA</p>	<p>Equipped standard with battery-less absolute encoder</p> <p>Built-in controller available</p> <p>24v Stepper motor</p>  <p>RCP6(S)-GRST□C</p>	<p>Equipped standard with battery-less absolute encoder</p> <p>Built-in controller available</p>  <p>RCP6(S)-GRST□R</p>	<p>Equipped standard with battery-less absolute encoder</p> <p>24v Stepper motor</p>  <p>RCP6-GRT</p>
<p>24v Stepper motor</p>  <p>RCP4-GRSLL</p>	 <p>RCP4-GRL</p>	 <p>RCP2-GR3S</p>	 <p>RCP2-GR3L</p>	<p>24v Stepper motor</p>  <p>RCP6-RTCK</p> <p>Rotation capability with the rotary and gripping capability with the gripper are integrated into one unit.</p>

## Others

Stopper Cylinder	ZR Unit (Vertical / rotation Integrated Type)	Wrist Unit
<p>Max. work piece weight: 25~150kg Stroke (mm): 20-30</p> <p>24v Stepper motor</p>  <p>RCP4-ST</p>	<p>Body width (mm): S/122, M/138 Max. payload (kg): S/3, M/6</p> <p>200v ACservo motor</p>  <p>ZR-S/M</p>	<p>Body width (mm): S/136.5, M/136.5 Max. payload (kg): S/1, M/2</p> <p>Equipped standard with battery-less absolute encoder</p> <p>24v Stepper motor</p>  <p>WU-S/M</p>

# Single-axis Robot

## Slider Type

### High Accuracy Type

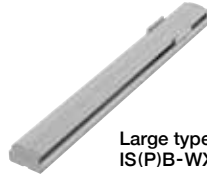
Stroke (mm): 100-3000  
Max. speed: 100-2500  
Max. payload (kg): Horizontal 400 / Vertical 80

Equipped standard with battery-less absolute encoder

200V AC servo motor



ISB/ISPB



Large type:  
IS(P)B-WXM(X)-750



SSPA



ISA/ISPA

### High-Rigidity Type (Iron-base)

Stroke (mm): 100-1500  
Max. speed: 200-2500  
Max. payload (kg): Horizontal 120 / Vertical 25

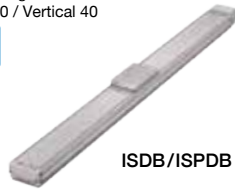
### Ball Screw Type (Standard)

Stroke (mm): 100-1500  
Max. speed: 200-2500  
Max. payload (kg): Horizontal 120 / Vertical 25

### Simple Dust-proof Type

Stroke (mm): 100-1600  
Max. speed: 120-1800  
Max. payload (kg): Horizontal 120 / Vertical 40

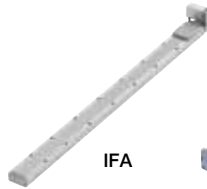
Equipped standard with battery-less absolute encoder



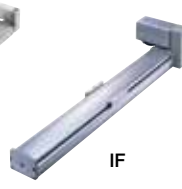
ISDB/ISPDB

### Belt-drive, High-Rigidity Type

Stroke (mm): 200-3200, Max. speed: 2000-3000  
Max. payload (kg): Horizontal 40



IFA



IF

### Rotating Nut Type

Stroke (mm): 300-3000, Max. speed: 1200-2500  
Max. payload (kg): Horizontal 120



NSA



NS

# Cleanroom Specification

### Slider Type

Equipped standard with battery-less absolute encoder

Built-in controller available



RCP6(S)CR-SA□C

### Rod Type



RCA2CR-GS

### Gripper Type



RCP2CR-GRM

### SCARA Robot

Equipped standard with battery-less absolute encoder

IXA-□C is available



IXP-□C

### Rotary Type



DDACR



RCP2CR-RT

# Dust/Splash-proof Specification

### Slider Type



RCP4W-SA□C

### Rod Type

Equipped standard with battery-less absolute encoder

Radial cylinder available

Built-in controller available



RCP6(S)W-R(R)A□C

Equipped standard with battery-less absolute encoder

### SCARA Robot



IXA-4NHW□□□□



IXP-□W

### Gripper Type



RCP2W-GRM

### Rotary Type



DDW



RCP2W-RT



IXA-4NSW□□□□

## Linear Servo Type

Body width (mm): 60-210  
 Stroke (mm): 40-4155  
 Max. speed (mm/s): 2500  
 Max. payload (kg): Horizontal 120  
 Max. rated thrust (N): 80, 400  
 \*Horizontal mount only



LSA-S



LSAS-N



LSA-W

Linear servo motor

## SCARA Robot

### IXA

Standard Type / High-Speed Type

Arm length (mm): 180-1200  
 Standard cycle time (S): 0.26-0.61  
 Max. payload (kg): 1-50

Equipped standard with battery-less absolute encoder

200v AC servo motor



IXA-NNN



IXA-NSN

Equipped standard with battery-less absolute encoder



IXA-NHN

Long Arm Type

### IXP (Power Con Type)

Standard Type

Arm length (mm): 180-650  
 Max. payload (kg): 6

Equipped standard with battery-less absolute encoder

24v Stepper motor



IXP-3N

## Table Top Robot

Selectable from stepper motors or servo motors

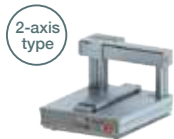
### A-Type [Movable workpiece type]

X axis stroke (mm): 200-500  
 Y axis stroke (mm): 200-500  
 Z axis stroke (mm): 100-150

Equipped standard with battery-less absolute encoder

24v Stepper motor

24v AC servo motor



TTA-A2



TTA-A3



TTA-A4

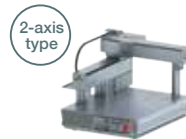
### C-Type [Fixed workpiece type]

X axis stroke (mm): 200-500  
 Y axis stroke (mm): 150-450  
 Z axis stroke (mm): 100-150

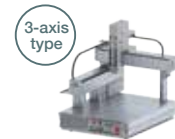
Equipped standard with battery-less absolute encoder

24v Stepper motor

24v AC servo motor



TTA-C2



TTA-C3



TTA-C4

## Cartesian Robot

### CRS 6-axis Robot - 6 degrees of freedom combining 3 cartesian and 3 rotational axes -

Y-axis Base Mounted

Equipped standard with battery-less absolute encoder



CRS-XBA/XBB  
\*Gantry combination



CRS-XGA/XGB

Z-axis Base Mounted / Y-axis Radial Cylinder

Equipped standard with battery-less absolute encoder



CRS-XZCY



CRS-XZCZ

Z-axis Base Mounted / Y-axis Slider Mounted

Equipped standard with battery-less absolute encoder



CRS-XZDY/XZEY



CRS-XZDZ/XZEZ

### IK2 / IK3 / IK4

Cartesian with stepper motor  
Robo Cylinders



IK2  
X-Y 2-axis



IK3  
X-Y-Z 3-axis



X-Y 2-axis



IK2  
Y-Z 2-axis



IK4  
X-Y-Z-R 4-axis



X-Y (Y Gantry)  
2-axis

### ICS(P)B2

Cartesian with servo motor  
single axis robots



X-Z 2-axis



Y-Z 2-axis

### ICS(P)B3

Cartesian with servo motor single axis robots



X-Y-Z 3-axis



X-Y-Z 3-axis



X-Y-Z  
Y Horizontal  
Gantry 3-axis

### ICS(P)B4 & ICS(P)B6

Cartesian with servo motor  
single axis robots



X-Y-Z-R (Rotary)  
4-axis



X-Y-X-Y 4-axis



X-Y-Z  
Y Side mounted  
Gantry 3-axis



X-Y-Z-X-Y-Z  
6-axis

**Controller**

Select an operational pattern based on the purpose of use.

**IAI's controller series**

**R-unit**

This series of unit-connecting controllers allows you to freely select and combine connected actuators and control methods.

**RCON** Max. 16 axes

**Positioner Type**



**REC** Max. 16 axes

**ELECYLINDER Drive Unit**



**RSEL** Max. 8 axes

**Program Type**



**Positioner Type : Single-axis controller**

**Other Products**

Position controller DC24V / AC100V / AC200V types  
Max. dimensions (mm): W35 x D69.1 x H190  
Small type dimensions (mm): W28 x D69 x H80

Max. dimensions (mm):  
W40 x D143 x H160

Max. dimensions (mm):  
W72 x D121 x H194

Max. dimensions (mm):  
W54 x D142.8 x H115

14 Safety function types



For 24v Stepper Motor

PCON-CB  
PCON-CYB/PLB/POB



For 24v AC Servo Motor

ACON-CB  
ACON-CYB/PLB/POB



For DC Brushless Motor

DCON-CB  
DCON-CYB/PLB/POB



SCON2  
SU-S  
Functional  
Safety Unit



SCON-CB/CGB



PSA-24(L)  
Power Supply  
for IAI products



BKR-01  
Brake Release  
Box

NEW

**Program Type : Multi-axis controller**

**Touch Panel Teaching Pendant**

Max. dimensions (mm):  
W100 x D126  
x H177~195

Max. dimensions (mm):  
W130 x D125  
x H195

Max. dimensions (mm):  
W304~372 x D125.3  
x H195

Position controller /  
Program controller common use  
Max. dimensions (mm):  
W190 x D25 x H155

Position controller /  
Program controller common use  
Max. dimensions (mm):  
W200 x D34 x H155

Teaching pendant with dedicated  
for EC power supply unit  
Max size (mm):  
W250 x D57.4 x H164.4

**2 axes**

**for WU/IXP**

**3-8 axes**



For 200v AC Servo Motor

SSEL



For 24v Stepper Motor

MSEL



For 200v AC Servo Motor

XSEL



TB-02



TB-03

\*TB-03 with wireless option  
is available.



TB-03E/TB-02E

\*ROBO Cylinder compatibility  
pendant is available.

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

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