

2025 IAI ROBOT LINEUP GUIDE

Product Lineup Catalog

ELECYLINDER®
ROBO Cylinder®
Industrial robots

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

Large Slider Type

Body width (mm): 100-188
Stroke (mm): 100-2800
Max. payload (kg):
Horizontal 400 / Vertical 80



EC-S□(X)

200V power supply for Large sliders



PSA-200

Belt Drive

Long Stroke

Body width (mm): 63-89
Stroke (mm): 300-2600
Max. payload (kg): Horizontal 25



EC-(D)B□S(U) **24v Stepper Motor**
EC-B8SS(U) **200v AC Servo Motor**

High-Rigidity

High-Rigidity Slider Type

Body width (mm): 60-80
Stroke (mm): 450-1500
Max. payload (kg):
Horizontal 51 / Vertical 25



EC-(D)S□(X)□AH

Side-mounted motor

Body width (mm): 60-80
Stroke (mm): 450-1500
Max. payload (kg):
Horizontal 51 / Vertical 25



EC-(D)S□(X)□AHR

Rod Type

Rod Type

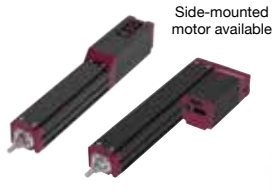
Body width (mm): 60-70
Stroke (mm): 50-300
Max. payload (kg):
Horizontal 80 / Vertical 19
Max. push force (N): 1094



EC-(D)R□

Radial Cylinder®

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



EC-(D)RR□
EC-(D)RR□□R

Side-mounted motor available

High-Rigidity Radial Cylinder®

Body width (mm): 60-70
Stroke (mm): 600-1000
Max. payload (kg):
Horizontal 80 / Vertical 28
Max. push force (N): 1094



EC-(D)RR□X□AH

Side-mounted motor available



EC-(D)RR□□AH
EC-(D)RR□□AHR

Rod Type with Double Guide

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-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-m²): 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-R</p>	<p>EC-S *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>
Body width (mm): 60-70 Stroke (mm): 65-315 Max. payload (kg): Horizontal 80 / Vertical 19 Max. push force (N): 1094	<p>EC-RR</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>

Table Type

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


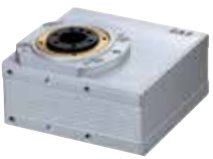



Standard Type	Side-mounted Motor Type	Compact Type	Standard Type	Side-mounted Motor Type	Servo Motor 200V
<p>Equipped standard with battery-less absolute encoder</p> <p>Built-in controller available</p> <p>24v Stepper motor</p>  <p>RCP6(S)-TA□C</p>	<p>Equipped standard with battery-less absolute encoder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

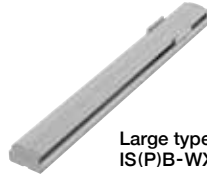
Stroke (mm): 100-3000
Max. speed: 100-2500
Max. payload (kg): Horizontal 400 / Vertical 80

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

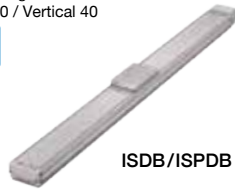
Ball Screw Type (Standard)

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

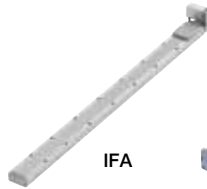
Equipped standard with battery-less absolute encoder



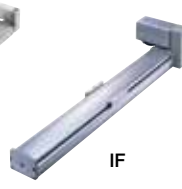
ISDB/ISPDB

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

Gripper Type



RCP2W-GRM

Rotary Type



DDW



RCP2W-RT

SCARA Robot



IXA-4NHW□□□□



IXP-□W



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

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

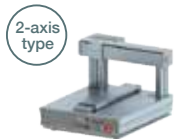
A-Type [Movable workpiece type]

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

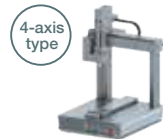
24v AC servo motor



TTA-A2



TTA-A3



TTA-A4

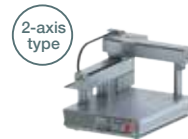
C-Type [Fixed workpiece type]

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

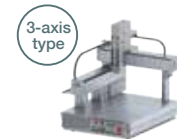
Equipped standard with battery-less absolute encoder

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



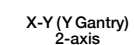
IK3
X-Y-Z 3-axis



X-Y 2-axis



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

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

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.