IAI ROBOT LINEUP GUIDE

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

Eleycylinder operation is extremely simple

Eleycylinder can be operated only by ON/OF 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 short time breakdown will be reduced.

**EC-S**
- Body width (mm): 63~73
- Stroke (mm): 50~500
- Maximum payload (kg): Horizontal 51/Vertical 19

**High Rigidity EC-S**
- Body width (mm): 63~75
- Stroke (mm): 50~800
- Maximum payload (kg): Horizontal 51/Vertical 25

**EC-S AH**
- Built-in controller available

**EC-R**
- Body width (mm): 63~73
- Stroke (mm): 50~300
- Maximum payload (kg): Horizontal 80/Vertical 19

**EC-RR**
- Body width (mm): 63~73
- Stroke (mm): 50~315
- Maximum payload (kg): Horizontal 80/Vertical 19

**EC-TC/TW**
- Body width (mm): 22~160
- Stroke (mm): 25~2600
- Maximum payload (kg): Horizontal 100/Vertical 19

**EC-GS/GD**
- Body width (mm): 55~76
- Stroke (mm): 30, 50
- Maximum payload (kg): Horizontal 8/Vertical 2.5

**EC-RR AH**
- Body width (mm): 63~75
- Stroke (mm): 50~800
- Maximum payload (kg): Horizontal 51/Vertical 25

**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. 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.

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

**EC-R**
- Wide: Side-mounted Motor Type
- Built-in controller available

**EC-RR**
- Wide: Side-mounted Motor Type
- Built-in controller available

**EC-TW**
- Wide: Side-mounted Motor Type
- Built-in controller available

**EC-GD**
- Wide: Side-mounted Motor Type
- Built-in controller available

**EC-RR AH**
- Wide: Side-mounted Motor Type
- Built-in controller available
ROBO Cylinder® These affordable, highly precise and high rigidity actuators have 1/5th the running cost of a pneumatic system.

**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)

![Image of Rod Type actuators](image)

**Servo Press**

Rod type actuators equipped with load cell on rod tip

You can realize the high-precision press.

Body width (mm): 40~200  Stroke (mm): 100~520  Maximum push force (N): 50000

![Image of Servo Press actuators](image)

**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

![Image of Table Type actuators](image)
**ROBO Cylinder**

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

### 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*

- **Hollow Type**
  - RCP6-RTFML
- **Flat Type**
  - RCP2-RTC
- **Vertical Type**
  - RCP2-RTB
- **Rotary Type**
  - RCS2-RTC
- **Direct Drive Motor**
  - DDA-LT/LH

### Gripper Type

*Suitable for gripping and lifting up the work.*

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

- **Solenoid Type**
  - GRM-S/M EG (Outer diameter grip)
  - S/M IG (Inner diameter grip)
- **Ultra Compact Slide Type**
  - RCD-GRSNA
- **Long Stroke : Coupling Type**
  - RCP6(S)-GRST
- **Long stroke: side-mounted Motor Type**
  - RCP6(S)-GRST
- **Thin Slide Type**
  - RCP6-GRT

### Vertical Type

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

### Hollow Type

- **Slide Type**
  - RCP4-GRS
- **Lever Type**
  - RCP4-GRL
- **3-finger Slide Type**
  - RCP2-GR3S
- **3-finger Lever Type**
  - RCP2-GR3L

### Ultra Compact Slide Type

- **Rotary Chuck Type**
  - RCP6-RTCK

### Others

- **Stopper Cylinder**
  - Body width (mm): 106.5–108
  - Stroke (mm): 20–30

- **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.

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**Cleanroom Specification**

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

Dedicated cleanroom types conforming to cleanliness class 10.

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**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.

- **LSA-S**
  - Body width (mm): 60–210
  - Stroke (mm): 40–4155
  - Maximum payload (kg): 120

- **LSAS-N**

- **LSA-W**

SCARA Robot
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.

- **A-type [Gate Type]**
  - 2-axis Specification
  - 3-axis Specification
  - 4-axis Specification

- **C-type [Cantilever Type]**
  - 2-axis Specification
  - 3-axis Specification
  - 4-axis Specification

- **TTA-A2**
- **TTA-A3**
- **TTA-A4**
- **TTA-C2**
- **TTA-C3**
- **TTA-C4**
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
Select the operational pattern based on the purpose of use.

**Positioner Type**

**Single Axis Controller**
- Small Position Controller
- Max. size: W28mm×D69mm×H80mm

**Multi Axes Controller**
- Position Controller DC24V
- Max. size: W233.4mm×D95mm×H115mm

**Program Type**

**Multi Axes Controller**
- Program Controller DC24V
- Max. size: W49mm×D116mm×H158mm

**Plc Function**

**Single Axis Controller**
- Max. size: W72mm×D121mm×H194mm

**Teaching Pendants**

**Touch Panel Teaching Pendant for Controllers**
- Max. size: W190mm×D25mm×H155mm

**Touch Panel Teaching Pendant with wireless data setting function**
- Max. size: W200mm×D34mm×H155mm

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