





ELECYLINDER®

Simple yet high performance electric actuators that brings you profits.

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



Equipped with battery-less

Built-in controller type

Standard Slider type

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



Body width (mm): 63-73 Stroke (mm): 50-300 Max. payload (kg): Horizontal 80/Vertical 19

Rod type



Side-mounted motor

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

FC-S□R

EC-RR□R

Small type

Body width (mm): 35-44 Stroke (mm): 50-300 Max. payload (kg): Horizontal 18/Vertical 6.5

Small, side-mounted motor

Body width (mm): 35-44 Stroke (mm): 50-300 Maximum payload (kg): Horizontal 18/Vertical 6.5

Wide type

Body width (mm): 100, 120 Stroke (mm): 50-800 Maximum payload (kg): Horizontal 62/Vertical 13.5



Radial Cylinder

Radial Cylinder®

Body width (mm): 63-73 Stroke (mm): 65-315 Maximum payload (kg): Horizontal 80/Vertical 19



EC-RR

Maximum payload (kg): Horizontal 80/Vertical 28

High-rigidity Radial Cylinder®

Body width (mm): 63-75

Stroke (mm): 50-1000

EC-RR□AH EC-RR□AHR FC-RR□XAH

Small type Radial Cylinder®

Body width (mm): 35-44 Stroke (mm): 50-300 Maximum payload (kg): Horizontal 35/Vertical 6.5



High-rigidity

High-rigidity slider type

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



Side-mounted motor

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



High rigidity radial cylinder

High Rigidity Radial Cylinder

Body width (mm): 63-75 Stroke (mm): 50-1000 Maximum payload (kg) Horizontal 80/Vertical 28

EC-RR EC-RR□X

Environment-resistant

Splash-proof (Rod type) Body width (mm): 63-73

Stroke (mm): 50-300 Maximum payload (kg): Horizontal 80/Vertical 19

EC-R□W

Splash-proof (Radial cylinder)

Body width (mm): 63-73 Stroke (mm): 65-315 Maximum payload (kg):



EC-RR□W

Body width (mm): 35-75 Stroke (mm): 50-800 Maximum payload (kg):



EC-S□CR EC-S□AHCR

Belt drive

Long stroke Body width (mm): 63-73 Stroke (mm): 300-2600 Maximum payload (kg): Horizontal 20 EC-B

Compact Table type

Body width (mm): 78-88 Stroke (mm): 30, 50, 100, 150 Maximum payload (kg): Horizontal 20/Vertical 6.5



EC-TC/TW

Rod type

Body width (mm): 34-112 Stroke (mm): 30, 50, 100, 150 Maximum payload (kg): Horizontal 35/Vertical 6.5



EC-RP/GS/GD

Others

Rotary

Body width (mm): 90-117 Max. swaving angle (degree): 330 Max. speed (degree/s): 600

Stopper cylinder

Body width (mm): 148 Stroke (mm): 50 Max. workpiece mass (kg): 50



FC-ST

Electric actuator can change speed by entering numeric values directly.

No need to connect a PC or a teaching pendant. Setting and trial operations can be performed by the ELECYLINDER alone.

Equipped with battery-less absolute encoder

Built-in controller type

Standard

Slider type

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



EC-DR

Rod type

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



FC-DS□R

Side-mounted motor

Body width (mm): 63-73

Stroke (mm): 50-500

Maximum payload (kg):

Small type

Body width (mm): 35-44 Stroke (mm): 50-300 Maximum payload (kg): Horizontal 18/Vertical 6.5



Small, side-mounted motor

Body width (mm): 35-44 Stroke (mm): 50-300 Maximum payload (kg): Horizontal 18/Vertical 6.5



Body width (mm): 100, 120 Stroke (mm): 50-800 Maximum payload (kg): Horizontal 62/Vertical 13.5

Program-

less



Radial Cylinders

Radial cylinder®

Body width (mm): 63-73 Stroke (mm): 65-315 Maximum payload (kg): Horizontal 80/Vertical 19



High-rigidity Radial Cylinder®

Body width (mm): 63-75 Stroke (mm): 50-1000 Maximum payload (kg): Horizontal 80/Vertical 28



High-rigidity

High-rigidity Slider type Body width (mm): 63-75 Stroke (mm): 50-800 Maximum payload (kg):



Side-mounted motor

Body width (mm): 63-75 Stroke (mm): 50-800 Maximum payload (kg): Horizontal 80/Vertical 28



High rigidity radial cylinder

High Rigidity Radial Cylinder

Body width (mm): 63-75 Stroke (mm): 50-1000 Maximum payload (kg) Horizontal 80/Vertical 28 **EC-DRR**

EC-DRR□X

Environment-resistant

Small type Radial Cylinder®

Body width (mm): 35-44

Stroke (mm): 50-300

Maximum payload (kg):

Cleanroom specification

Body width (mm): 35-75 Stroke (mm): 50-800 Maximum payload (kg): Horizontal 51/Vertical 25

> EC-DS□CR EC-DS□AHCR

Belt drive

Long stroke Body width (mm): 63-73 Stroke (mm): 300-2600 Maximum payload (kg): Horizontal 20 EC-DB

ELECYLINDER®

Large slide type

Slider type

Body width (mm): 132-156 Stroke (mm): 100-2500 Maximum payload (kg): Horizontal 108/Vertical 36

200V power supply for **ELECYLINDER®**



ELECYLINDER®

Field network connection unit

Field network compatible remote I/O



ELECYLINDER®

Teaching pendant with dedicated power supply unit



REC

ROBO Cylinder®

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

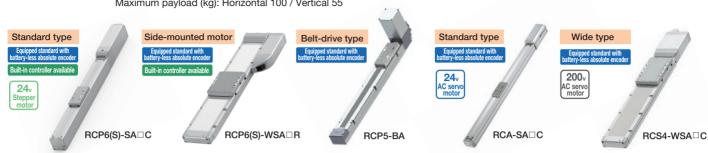
ROBO Cylinder is high-performance electric actuator equipped with a ball screw, linear guide, and servo motor. These next-generation actuator has multi-point positioning capability as well as the ability to change speed and acceleration, unlike anything seen with air cylinders.





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

Use rod type when moving workpieces vertically or carrying them with a chuck. It is also suitable for pushing operations and press-fitting operations.

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

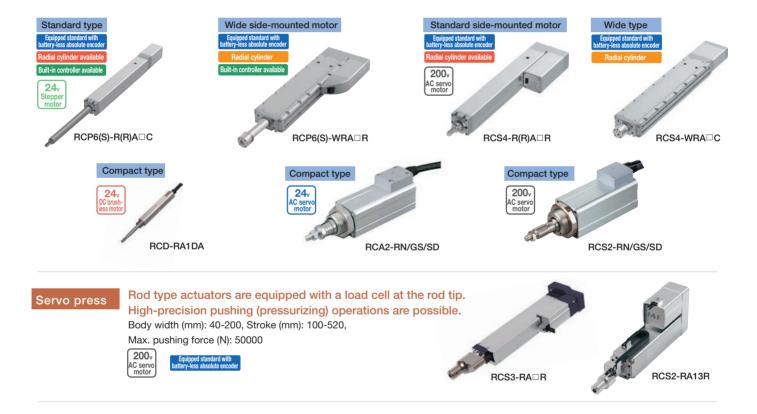


Table type

Use this type when moving workpieces vertically and when moment loads are applied.

Body width (mm): 32-95, Stroke (mm): 20-390, Max. payload (kg): horizontal 30 / vertical 24.



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





RCP6-RTFML

Flat type

Vertical type





RCP2-RTB

Rotary type





RCS2-RTC□L

Direct drive motor

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



DDA-LT/LH

Gripper type

Suitable for gripping and lifting up workpieces.

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

Solenoid type



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

Ultra compact slide type

RCP2-RTC



RCD-GRSNA





RCP6(S)-GRST□C



RCP6(S)-GRST□R





RCP6-GRT

Slide type



RCP4-GRS

Lever 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.



RCP6-RTCK

motor

Others

Stopper cylinder

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





ZR Unit (vertical/rotation integrated type)

Body width (mm): 2/122, M/138 Max. payload (kg): S/3, M/6





Wrist unit

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







WU-S/M

Single-axis Robot

Intelligent actuator with high speed and high transfer capabilities

The single-axis robot is a high-precision indexing device, which is quipped with a base, linear guide, ball screw and servo motor integrated into one unit. It reduces designing and adjustment times, achieving lower costs.



Cleanroom Specification

Suitable for transfer and indexing in the cleanroom.

Electric actuators for cleanroom applications, compliant with Class 10 or Class 100.



Dust- and Splashproof Specification

Operations with extreme dust or water splashes.

Degree of protection conforms to IP50-67.



Linear Servo Type

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



SCARA Robot

Horizontal articulated robots suitable for high-speed transfer operations of light workpieces

IXA Arm length (mm): 300-1000 Standard cycle time (S): 0.26-0.45 Max. payload (kg): 3-24 IXP (Power Con type)

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











Table Top Robot

All-in-one, table-top type robot equipped with built-in controller and power supply unit

Selectable from stepper motors or servo motors. Body width (mm): 401-755.8 XY axis stroke (mm): 150-500





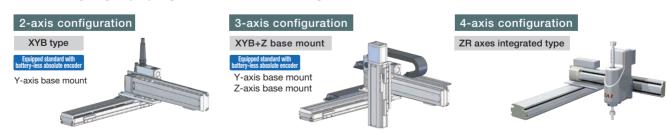




Cartesian Robot

Many variations are available by combining single-axis robots.

Realizes high rigidity by ingenious mechanical design. Number of axes: 2-6 Max. payload (kg): 65









TTA-C3

Controller

Select an operational pattern based on the purpose of use.

Positioner type

Single-axis controller

<Small> Position controller

Max. dimensions: W28mm x D69mm x H80mm



PCON-CYB



ACON-CYB



DCON-CYB





Position controller DC24V/AC100V/AC200V types



PCON-CB

DCON-CB

Max. dimensions: W49mm x D116mm x H158mm



SCON-CAL

Max. dimensions: W72mm x D121mm x H194mm



SCON-CB

Multi-axis controller

Position controller DC24V type Max. dimensions: W223.4mm x D95mm x H115mm



RCON

IAI's new controller series R-unit This series of unit-connecting controllers allows you to freely select and combine connected actuators and control methods. RCON R-unit REC

Program Type

Multi-axis controller

Max. dimensions: W100mm x D126mm x H177~195mm

Max. dimensions: W304mm~372mm x D125.3mm x H195mm



SSEL







RSEL

Touch Panel Teaching Pendant

Position controller / Program controller common use Max. dimensions: W190mm x D25mm x H155mm

Position controller / Program controller common use Max. dimensions: W200mm x D34mm x H155mm

Teaching pendant with dedicated for EC power supply unit Max size: W250mm x D57.4mm x H164.4mm







TB-03



TB-03E/TB-02E

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

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