

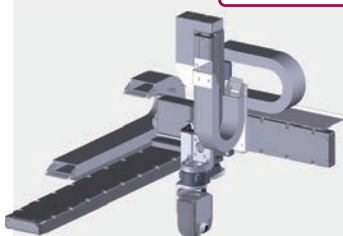
IAI
Quality and Innovation

IAI ROBOT LINEUP GUIDE

Product Lineup Catalog

ELECYLINDER®
ROBO Cylinder®
Industrial robots

Available now!



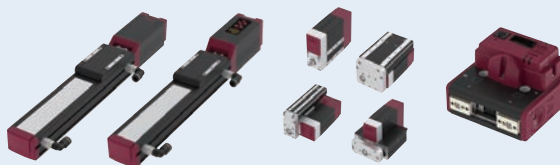
CRS



IXA
Dust-splash proof
Specification

Newest Additions to the ELECYLINDER® Series

Cleanroom specification, Mini, Gripper type



Coming soon!

Robo Cylinder®
Pulse press



www.intelligentactuator.com

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.

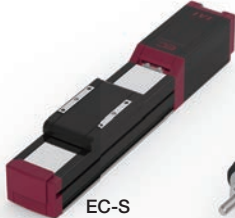
Equipped with battery-less absolute encoder

Built-in controller type

Standard

Slider type

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



Rod type

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



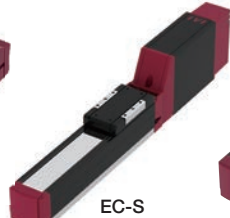
Side-mounted motor

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



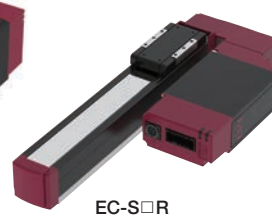
Small type

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

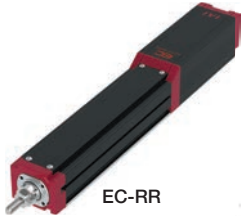
Body width (mm): 100, 120
Stroke (mm): 50-800
Maximum payload (kg):
Horizontal 62/Vertical 13.5



Radial Cylinder

Radial Cylinder®

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



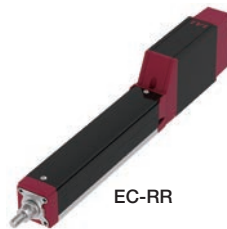
High-rigidity Radial Cylinder®

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



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



Environment-resistant

Splash-proof (Rod type)

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



Splash-proof (Radial cylinder)

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



Cleanroom Specification

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



Belt drive

Long stroke

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



Compact

Table type

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



Rod type

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



Others

Rotary

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



Stopper cylinder

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



ELECYLINDER® Digital Speed Controller

Electric actuator can change speed by entering numeric values directly.









Program-less

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	Rod type	Side-mounted motor	Small type	Small, side-mounted motor	Wide 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 Maximum payload (kg): Horizontal 80/Vertical 19	Body width (mm): 63-73 Stroke (mm): 50-500 Maximum payload (kg): Horizontal 51/Vertical 19	Body width (mm): 35-44 Stroke (mm): 50-300 Maximum payload (kg): Horizontal 18/Vertical 6.5	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
 EC-DS	 EC-DR	 EC-DS□R	 EC-DS	 EC-DS□R	 EC-WS□

Radial Cylinders

Radial cylinder®	High-rigidity Radial Cylinder®	Small type Radial Cylinder®	High-rigidity Slider type	Side-mounted motor
Body width (mm): 63-73 Stroke (mm): 65-315 Maximum payload (kg): Horizontal 80/Vertical 19	Body width (mm): 63-75 Stroke (mm): 50-1000 Maximum payload (kg): Horizontal 80/Vertical 28	Body width (mm): 35-44 Stroke (mm): 50-300 Maximum payload (kg): Horizontal 35/Vertical 6.5	Body width (mm): 63-75 Stroke (mm): 50-800 Maximum payload (kg): Horizontal 51/Vertical 25	Body width (mm): 63-75 Stroke (mm): 50-800 Maximum payload (kg): Horizontal 80/Vertical 28
 EC-DRR	 EC-DRR□AH EC-DRR□AHR EC-DRR□XAH	 EC-DRR	 EC-DS□AH	 EC-DS□AHR EC-DRR□R EC-DRR□AHR

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

Cleanroom specification

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



EC-DS□CR
EC-DS□AHC

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



EC-S

200V power supply for
ELECYLINDER®



PSA-200

ELECYLINDER®

Field network connection unit

Field network compatible remote I/O



REC

ELECYLINDER®

Teaching pendant with dedicated power supply unit



TB-03

TB-03E

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.

Slider Type

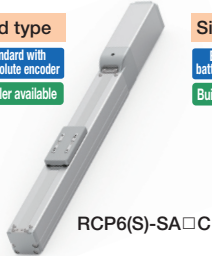
Suitable for moving something horizontally and for a long distance.

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

Standard type

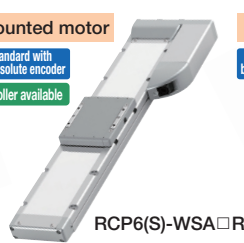
Equipped standard with battery-less absolute encoder
Built-in controller available

24v Stepper motor



Side-mounted motor

Equipped standard with battery-less absolute encoder
Built-in controller available



Belt-drive type

Equipped standard with battery-less absolute encoder



Standard type

Equipped standard with battery-less absolute encoder

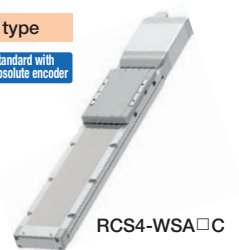
24v AC servo motor



Wide type

Equipped standard with battery-less absolute encoder

200v AC servo motor



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)

Standard type

Equipped standard with battery-less absolute encoder
Radial cylinder available
Built-in controller available

24v Stepper motor



Wide side-mounted motor

Equipped standard with battery-less absolute encoder
Radial cylinder
Built-in controller available



Standard side-mounted motor

Equipped standard with battery-less absolute encoder
Radial cylinder available

200v AC servo motor



Wide type

Equipped standard with battery-less absolute encoder
Radial cylinder



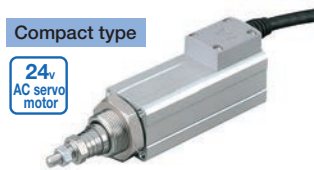
Compact type

24v DC brushless motor



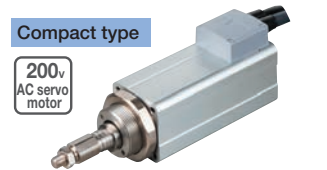
Compact type

24v AC servo motor



Compact type

200v AC servo motor



Servo press

Rod type actuators are equipped with a load cell at the rod tip.

High-precision pushing (pressurizing) operations are possible.

Body width (mm): 40-200, Stroke (mm): 100-520,

Max. pushing force (N): 50000

200v AC servo motor

Equipped standard with battery-less absolute encoder



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.

Standard type

Equipped standard with battery-less absolute encoder
Built-in controller available

24v Stepper motor



Side-mounted motor type

Equipped standard with battery-less absolute encoder
Built-in controller available



Compact type

24v AC servo motor



Standard type

Equipped standard with battery-less absolute encoder

200v AC servo motor



Side-mounted motor type

Equipped standard with battery-less absolute encoder



Compact type



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

Equipped standard with battery-less absolute encoder

24v Stepper motor



RCP6-RTFML

Flat type



RCP2-RTC

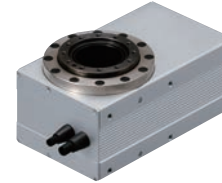
Vertical type



RCP2-RTB

Rotary type

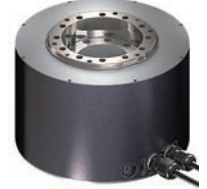
200v AC servo motor



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

24v DC brush-less motor



RCD-GRSNA

Long stroke: Coupling type

Equipped standard with battery-less absolute encoder
Built-in controller available

24v Stepper motor



RCP6(S)-GRST□C

Long stroke: Side-mounted motor type

Equipped standard with battery-less absolute encoder
Built-in controller available

24v Stepper motor



RCP6(S)-GRST□R

Thin slide type

Equipped standard with battery-less absolute encoder

24v Stepper motor



RCP6-GRT

Slide type

24v Stepper motor



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.

24v Stepper motor



RCP6-RTCK

Others

Stopper cylinder

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

24v Stepper motor



RCP4-ST

ZR Unit (vertical/rotation integrated type)

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

200v AC servo motor



ZR-S/M

Wrist unit

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

Equipped standard with battery-less absolute encoder

24v Stepper motor



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 equipped with a base, linear guide, ball screw and servo motor integrated into one unit. It reduces designing and adjustment times, achieving lower costs.

Slider type

High rigidity type

Equipped standard with battery-less absolute encoder

200v AC servo motor



ISB/ISPB

High rigidity type (iron-base)



SSPA

Ball screw type (standard)



ISA/ISPA

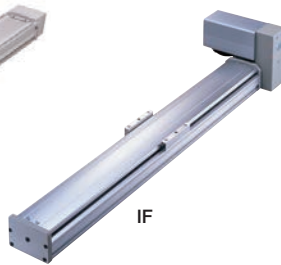
Simple dust-proof type

Equipped standard with battery-less absolute encoder



ISDB/ISPDB

Belt-drive, high rigidity type



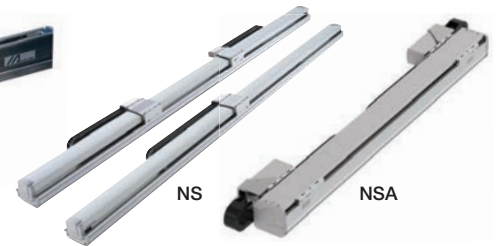
IF

Belt-drive, slim type



FS

Nut-rotation type



NS

NSA

Cleanroom Specification

Suitable for transfer and indexing in the cleanroom.

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

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

Rotary type



DDACR

RCP2CR-RT

SCARA robot

Equipped standard with battery-less absolute encoder



IXP-□C

Dust- and Splash-proof Specification

Operations with extreme dust or water splashes.

Degree of protection conforms to IP50-67.

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

Gripper type



RCP2W-GRM

Rotary type



RCP2W-RT

DDW

SCARA robot

Equipped standard with battery-less absolute encoder



IXP-□W

Linear Servo Type

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

Body width (mm): 60-210
Stroke (mm): 40-4155
Max. payload (kg): 120

Linear servo motor



LSA-S



LSAS-N



LSA-W

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

Standard type

Equipped standard with battery-less absolute encoder

200v AC servo motor



IXA-NNN

High-speed type

Equipped standard with battery-less absolute encoder



IXA-NSN

Standard type

Equipped standard with battery-less absolute encoder

24v Stepper motor



IXP-3N

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

24v Stepper motor

24v AC servo motor

A-type [movable workpiece type]

3-axis type

Equipped standard with battery-less absolute encoder



TTA-A3

C-type [fixed workpiece type]

3-axis type

Equipped standard with battery-less absolute encoder



TTA-C3

Cartesian Robot

Many variations are available by combining single-axis robots.

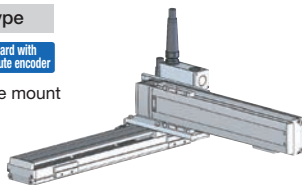
Realizes high rigidity by ingenious mechanical design. Number of axes: 2-6 Max. payload (kg): 65

2-axis configuration

XYB type

Equipped standard with battery-less absolute encoder

Y-axis base mount

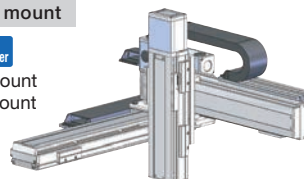


3-axis configuration

XYB+Z base mount

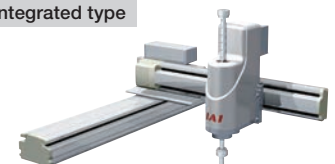
Equipped standard with battery-less absolute encoder

Y-axis base mount
Z-axis base mount



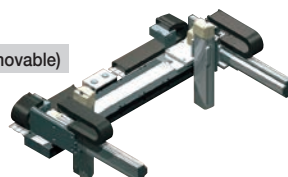
4-axis configuration

ZR axes integrated type



6-axis configuration

Z-axis base mount type (Z-axis slider movable)



High-speed Cartesian type

Cartesian 4 axes + Rotary axis



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
Max. dimensions: W35mm x D69.1mm x H190mm



PCON-CB



ACON-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.



Program Type

Multi-axis controller

Max. dimensions: W100mm x D126mm x H177~195mm
Max. dimensions: W304mm~372mm x D125.3mm x H195mm



SSEL



XSEL



RSEL

Touch Panel Teaching Pendant

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



TB-02

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



TB-03

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



TB-03E/TB-02E

IAI America, Inc.

USA Headquarter & Western Region (Los Angeles): 2690 W. 237th Street, Torrance, CA 90505 (800) 736-1712
Midwest Branch Office (Chicago) : 110 E. State Pkwy, Schaumburg, IL 60173 (800) 944-0333
Southeast Branch Office (Atlanta): 1220 Kennestone Circle, Suite 108, Marietta, GA 30066 (678) 354-9470

www.intelligentactuator.com

JAPAN Headquarters 577-1 Obane, Shimizu-ku, Shizuoka-shi, Shizuoka, 424-0103, JAPAN

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

IAI Industrieroboter GmbH

Ober der Röh 4, D-65824 Schwalbach am Taunus, Germany

IAI (Shanghai) Co., Ltd.

Shanghai Jiahua Business Center A8-303, 808, Hongqiao Rd., Shanghai 200030, China

IAI Robot (Thailand) Co., Ltd.

825 Phairojkiija Tower 7th Floor, Debaratana Rd., Bangna Nuea, Bangna, Bangkok 10260, Thailand