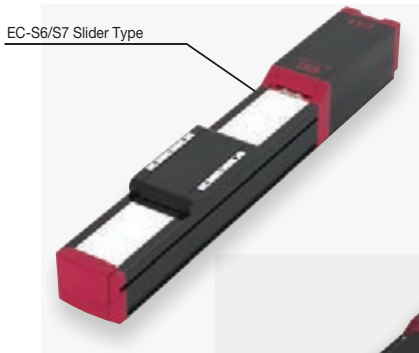
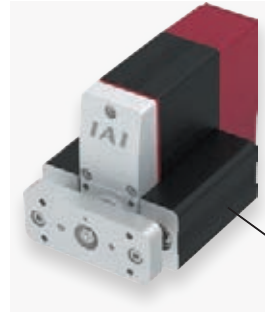


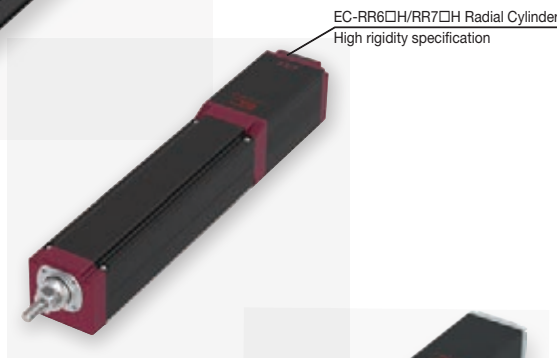
Simple-to-use EleCylinder Series



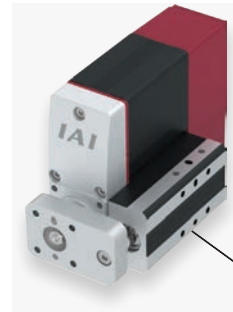
EC-S6/S7 Slider Type



EC-GD4 Mini Double Guide Rod Type
Motor-reversing specification



EC-RR6□H/RR7□H Radial Cylinder
High rigidity specification



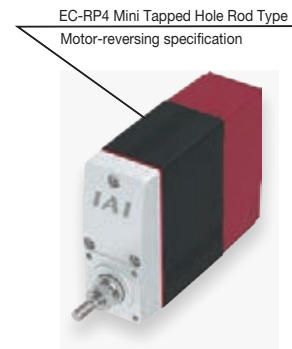
EC-GS4 Mini Single Guide Rod Type
Motor-reversing specification



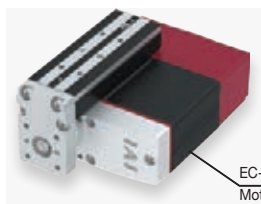
EC-R6/R7
Rod Type



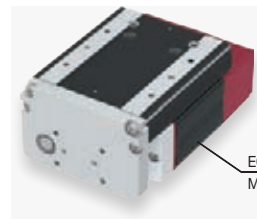
EC-R6□W/R7□W Rod Type
Waterproof specification



EC-RP4 Mini Tapped Hole Rod Type
Motor-reversing specification



EC-TC4 Mini Compact Table Type
Motor-reversing specification



EC-TW4 Mini Wide Table Type
Motor-reversing specification

Slider Type

*Speed limitation applies to push motion. See the manual or contact IAI.

Motor	Type	External view	Body width (mm)	Lead (mm)	Positioning repeatability (mm)	Stroke (mm)	Max. speed (mm/s)	Max. push force (N)*	Max. payload (kg)	
									Horizontal	Vertical
Straight Motor	S6			20	±0.05	50 to 400 (per 50st)	800	56	15	1
				12			700	93	26	2.5
				6			450	185	32	6
				3			225	370	40	12.5
	S7			24	±0.05	50 to 500 (per 50st)	860	112	37	3
				16			700	168	46	8
				8			420	336	51	16
				4			210 <175>	673	51	19

<> represents vertical operation.

High Rigidity Slider Type

*Speed limitation applies to push motion. See the manual or contact IAI.

Motor	Type	External view	Body width (mm)	Lead (mm)	Positioning repeatability (mm)	Stroke (mm)	Max. speed (mm/s)	Max. push force (N)*	Max. payload (kg)	
									Horizontal	Vertical
Straight Motor	S6□H			20	±0.05	50 to 400 (per 50st)	800	56	15	1
				12			700	93	26	2.5
				6			450	185	32	6
				3			225	370	40	12.5
	S7□H			24	±0.05	50 to 500 (per 50st)	860	112	37	3
				16			700	168	46	8
				8			420	336	51	16
				4			210 <175>	673	51	19

<> represents vertical operation.

Rod Type / Mini Rod Type

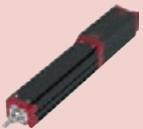



*Speed limitation applies to push motion. See the manual or contact IAI.

Motor	Type	External view	Body width (mm)	Lead (mm)	Positioning repeatability (mm)	Stroke (mm)	Max. speed (mm/s)	Max. push force (N)*	Max. payload (kg)	
									Horizontal	Vertical
Straight Motor	R6			20	±0.05	50 to 300 (per 50st)	800	56	6	1.5
				12			700	93	25	4
				6			450	185	40	10
				3			225	370	60	12.5
	R7			24	±0.05	50 to 300 (per 50st)	860 <640>	182	20	3
				16			700 <560>	273	50	8
				8			350	547	60	18
				4			175	1094	80	19
Side-mounted Motor	RP4			6	±0.05	30, 50	300	30	2.5	1
				4			200	45	4	1.5
				2			100	90	8	2.5
	GS4			6	±0.05	30, 50	300	30	2.5	1
				4			200	45	4	1.5
				2			100	90	8	2.5
	GD4			6	±0.05	30, 50	300	30	2.5	1
				4			200	45	4	1.5
				2			100	90	8	2.5

<> represents vertical operation.

Radial Cylinder

*Speed limitation applies to push motion. See the manual or contact IAI.

Motor	Type	External view	Body width (mm)	Lead (mm)	Positioning repeatability (mm)	Stroke (mm)	Max. speed (mm/s)	Max. push force (N)*	Max. payload (kg)	
									Horizontal	Vertical
Straight Motor	RR6		 63mm	20	±0.05	65 to 315 (per 50st)	800	56	6	1.5
				12			700	93	25	4
				6			450	185	40	10
				3			225	370	60	12.5
	RR7		 73mm	24	±0.05	65 to 315 (per 50st)	860 <640>	182	20	3
				16			700 <560>	273	50	8
				8			350	547	60	18
				4			175	1094	80	19

<> represents vertical operation.

High Rigidity Radial Cylinder


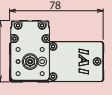

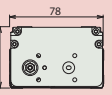
*Speed limitation applies to push motion. See the manual or contact IAI.

Motor	Type	External view	Body width (mm)	Lead (mm)	Positioning repeatability (mm)	Stroke (mm)	Max. speed (mm/s)	Max. push force (N)*	Max. payload (kg)	
									Horizontal	Vertical
Straight Motor	RR6□H		 63mm	20	±0.05	50 to 300 (per 50st)	800	56	6	1.5
				12			700	93	25	4
				6			450	185	40	10
				3			225	370	60	20
	RR7□H		 75mm	24	±0.05	50 to 300 (per 50st)	860 <640>	182	20	3
				16			700 <560>	273	50	8
				8			350	547	60	18
				4			175	1094	80	28

<> represents vertical operation.





Mini Table Type

*Speed limitation applies to push motion. See the manual or contact IAI.

Motor	Type	External view	Body width (mm)	Lead (mm)	Positioning repeatability (mm)	Stroke (mm)	Max. speed (mm/s)	Max. push force (N)*	Max. payload (kg)	
									Horizontal	Vertical
Side-mounted Motor	TC4		 78mm	6	±0.05	30, 50	300	30	2.5	1
				4			200	45	4	1.5
				2			100	90	8	2.5
	TW4		 78mm	6	±0.05	30, 50	300	30	2.5	1
				4			200	45	4	1.5
				2			100	90	8	2.5

Waterproof Specification

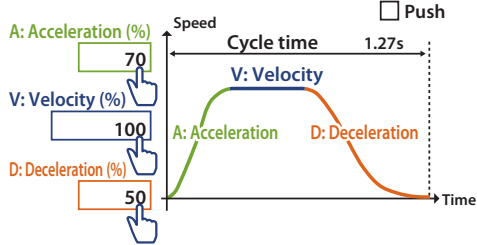
*Speed limitation applies to push motion. See the manual or contact IAI.

Motor	Type	External view	Body width (mm)	Lead (mm)	Positioning repeatability (mm)	Stroke (mm)	Max. speed (mm/s)	Max. push force (N)*	Max. payload (kg)	
									Horizontal	Vertical
Straight Motor	R6□W		 63mm	20	±0.05	50 to 300 (per 50st)	800	56	6	1.5
				12			700	93	25	4
				6			450	185	40	10
				3			225	370	60	12.5
	R7□W		 73mm	24	±0.05	50 to 300 (per 50st)	860 <640>	182	20	3
				16			700 <560>	273	50	8
				8			350	547	60	18
				4			175	1094	80	19

<> represents vertical operation.

Standard

Operating conditions (Push forward: Backward end → Forward end)



<Features>

- For the slider type, the slider on the top of the body operates.
- For the rod type, the rod operates in the same way as a rod type air cylinder.

<Applications>

- Slider type Suitable for transporting workpieces.
- Rod type Suitable for pushing and lifting.

Slider type

EC-S6
EC-S7



Rod type

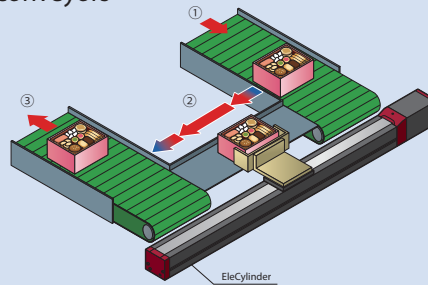
EC-R6
EC-R7



<Usage Examples>

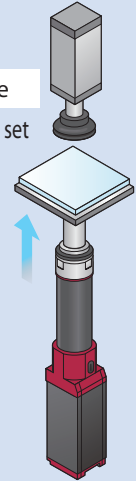
Slider type

Transferring between conveyors



Rod type

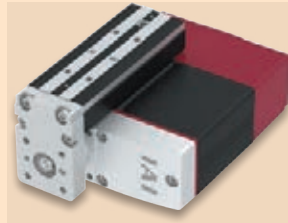
Pushes up the set workpiece



Mini

Mini Table type

EC-TC4
EC-TW4



Mini Guided rod type

EC-GS4
EC-GD4



<Features>

- For the slider type, the table on the top of the body operates.
- For the mini guided rod type, the rod operates.
- The use of a nut rotation mechanism reduces the size.

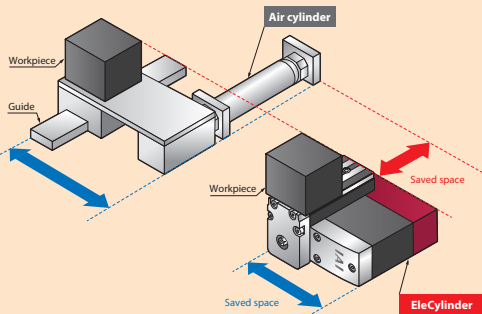
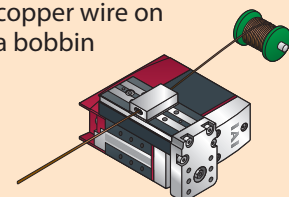
<Applications>

Suitable for conveying and pushing workpieces in narrow spaces.

<Usage Examples>

Mini Table type

Device for winding copper wire on a bobbin



High Rigidity

Radial Cylinder High Rigidity Radial Cylinder

EC-RR6
EC-RR7

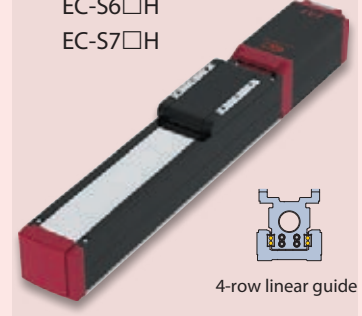


EC-RR6□H
EC-RR7□H



High Rigidity slider type

EC-S6□H
EC-S7□H



<Features>

- A ball circulating type linear guide is built in.
- The high rigidity specification type has a built-in 4-row linear guide. The highly rigid structure supports loads distributed over 4 rows of steel balls.

<Applications>

Radial Cylinder

Suitable for oscillating motion such as opening and closing clamps and doors.

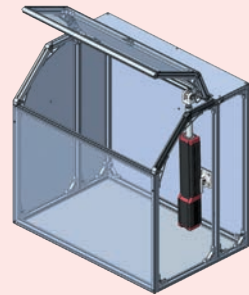
High Rigidity Spec. Type

Suitable for applications where a large reaction force is applied, such as tightening screws and drilling holes.

<Usage Examples>

Radial Cylinder

Door open/close



Environmental Resistance

Waterproof rod type

EC-R6□W
EC-R7□W



<Usage Examples>

Waterproof rod type

Processing machine door open/close



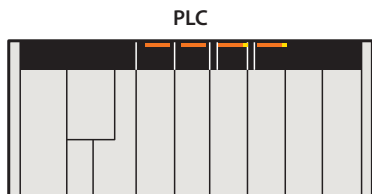
<Features>

- The rod operates in the same way as a rod type air cylinder.
- Waterproof specification type with ingress protection rating of IP67.

<Applications>

- Suitable for use in environments with flying dust or exposure to water.
- Usable in places where food-related equipment is washed.

System Configuration



DC24V
Power Supply
24V ⊕
0V ⊕
FG ⊕

24VDC power supply
* Is to be provided by the customer

<Wires>
For "24V" and "0V", the thickness should be AWG18.
For others, it should be AWG26 or higher.
* All cables should be 10m or shorter.

Accessories

Power / I/O connector

Connector for connecting customer-side power and I/O wiring.



Accessories

Power / I/O cable

<Model: CB-EC-PWBIO□□□-RB>

Cable for connecting power and PLC I/O signals.



Sold separately

Touch Panel Data Setter with Wireless Function

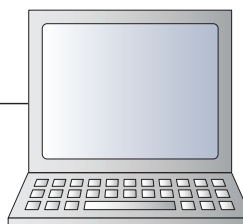
<Model: TB-03-□>



Sold separately

Touch Panel Teaching Pendant

<Model: TB-02-□>



Sold separately

PC software

(5m cable included)

RS232 connection version

<Model: RCM-101-MW>

USB connection version

<Model: RCM-101-USB>

For Waterproof Specification

Connect the power I/O connector to the interface box connected to the main body by the actuator cable.

Accessories (Waterproof Specification)

- Interface box
- Actuator cable

