

Overview of ELECYLINDER® EC



Please check New products web page for latest information.
ecc.iai-america.com



Simple & Wireless Operation



EC Product List

Environmental Resistance

<Features>

- The rod operates in the same way as a rod type air cylinder.
- Waterproof type with ingress protection rating of IP67.
- The Radial Cylinder type is equipped with a ball circulating type built-in linear guide.

<Applications>

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

NEW Splash-proof
(Radial cylinder)

EC-RR6□W
EC-RR7□W



IP67

Radial Cylinder

Splash-proof
(Rod type)

EC-R6□W
EC-R7□W



IP67

High Rigidity

NEW Small type
(Radial cylinder)

EC-RR3
EC-RR4



Radial Cylinder

NEW Side-mounted motor

EC-S6□AHR
EC-S7□AHR

High Rigidity

EC-RR6□R
EC-RR7□R

Radial Cylinder



EC-RR6□AHR
EC-RR7□AHR

Radial Cylinder

High Rigidity

NEW High rigidity
(Slider type)

EC-S6□AH
EC-S7□AH



High Rigidity

NEW High rigidity
(Radial cylinder)

EC-RR6□AH
EC-RR7□AH



Radial Cylinder

Radial Cylinder

EC-RR6
EC-RR7



Radial Cylinder

<Features>

- A ball circulating type linear guide is built in.
- The high rigidity slider and high rigidity Radial Cylinder types have 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 swinging operations such as clamping and opening/closing doors.

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

<Application Example>

Door open/close

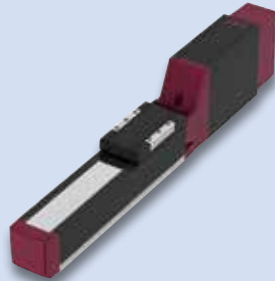


Standard

NEW

Small type

EC-S3
EC-S4



NEW

Side-mounted motor

EC-S6□R
EC-S7□R



Slider type

EC-S6
EC-S7



Rod type

EC-R6
EC-R7



<Features>

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

<Applications>

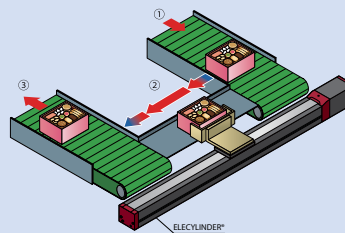
Slider type Suitable for transporting workpieces.

Rod type Suitable for pushing and lifting.

<Application Examples>

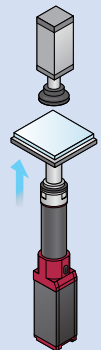
Slider type

Transferring between conveyors



Rod type

Pushes up the set workpiece



Compact

<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.

Mini Table type

EC-TC4
EC-TW4



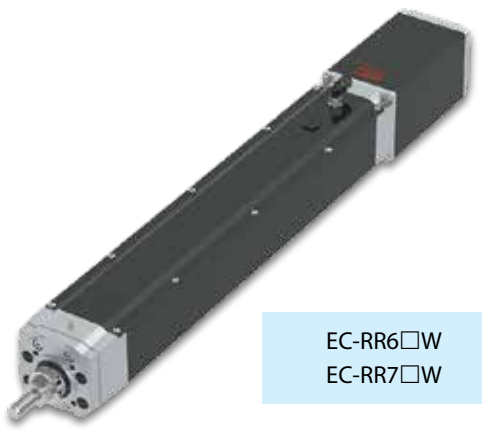
Mini Guided rod type

EC-GS4
EC-GD



Immersed in water? No problem!

Splash-proof type Radial Cylinder

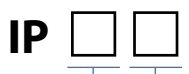


EC-RR6□W
EC-RR7□W

1. The ingress protection rating is IP67.

The Splash-proof structure prevents the ingress of water even when immersed, making it suitable for equipment such as food-related machines and washing machines which are exposed to violent splashes of water. It can also be used in an environment where oil mist is present around processing machines.

Ingress protection Indication



The first number
Protection against ingress from solid objects, including fingers.

The second number
Protection against water.
*Please consult with us when liquid other than water is used.

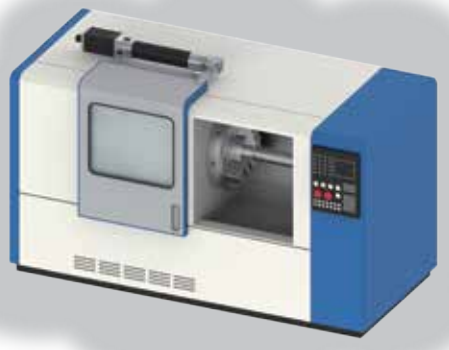
Description of protection rating

| | |
|-------------|---|
| IP67 | Solid objects : Completely protected from ingress by dust or solid particles. |
| | Water : No ingress by water, even when immersed. |

2. Fluororubber seal option is added as an option.

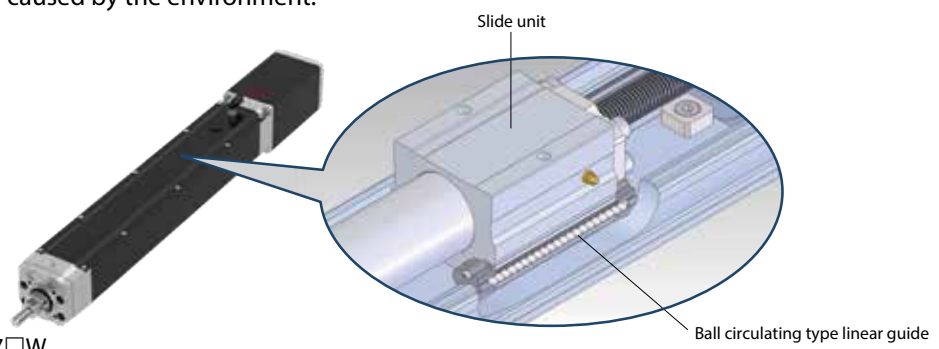
A fluororubber seal, which has excellent resistance against cutting oil and cleaning fluid, is added as an option to be used for O-rings and gaskets. (Option code: SLF)
The Radial Cylinder can be used near machine tools where oil mist scatters.

<Application Example>
Processing machine door open/close



3. Equipped with a guide.

A ball circulating type built-in linear guide is equipped in the rod. The guide part is protected by the water-proof construction, eliminating troubles of the guide caused by the environment.



EC-RR6□W/RR7□W

Increased rigidity thanks to the 4-row guide

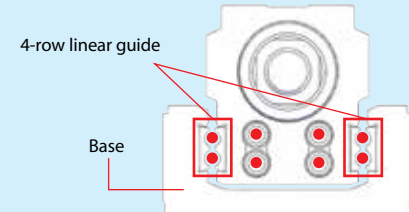
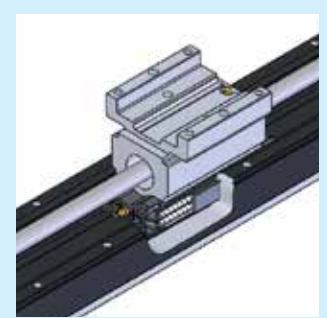
High Rigidity ELECYLINDER®

4-row linear guide construction (sectional view)

Because of high rigidity

- * Increased dynamic allowable moment
- * Increased load on overhang length
- * Increased transferrable weight

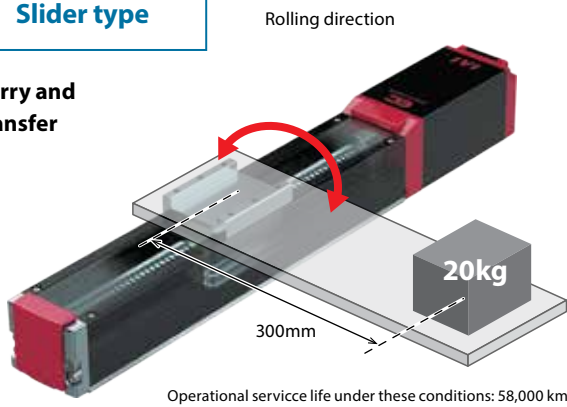
The 4-row steel balls disperse loads

1. Dynamic allowable moment is 3.5 times greater than that of the conventional products.

Slider type

Carry and transfer



EC-S6□AH ▶ P47
EC-S7□AH ▶ P49

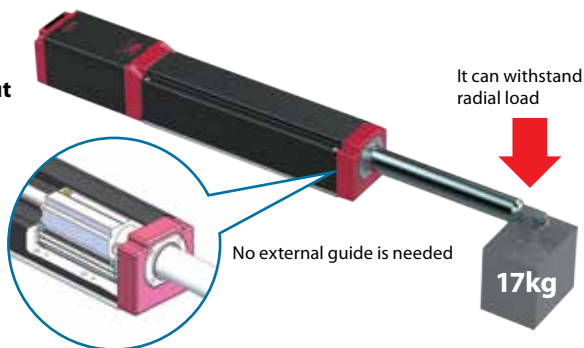
Specifications

| | S6□AH | S7□AH |
|--|----------|-----------|
| Maximum stroke | 800mm | 800mm |
| Maximum payload (horizontal) | 40kg | 51kg |
| Dynamic allowable moment (rolling direction) | Mc 55N·m | Mc 134N·m |

2. Dynamic allowable radial load at the rod tip is 2.8 times greater than that of the conventional products.

Rod type (Radial Cylinder)

**Push
Pull
Press-fit**



EC-RR6□AH ▶ P71
EC-RR7□AH ▶ P73

Specifications

| | | |
|--|-------|-------|
| Longest stroke | 400mm | 500mm |
| Dynamic allowable radial load at the rod tip * | 130N | 170N |

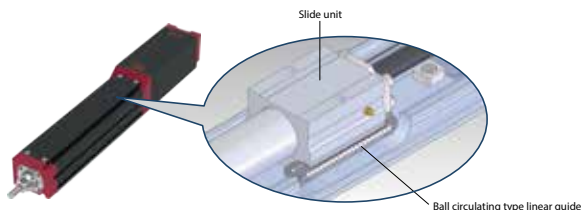
* Assuming a basic rated service life of 5,000km.
(Note) Please confirm the conditions specified on P107 before use.

Radial load can be applied without an external guide!

Radial Cylinder®

1. Includes a built-in guide.

The radial cylinder is equipped with a built-in ball circulating type linear guide in the rod body. No external guide is required, as both radial loads and eccentric loads can be applied.



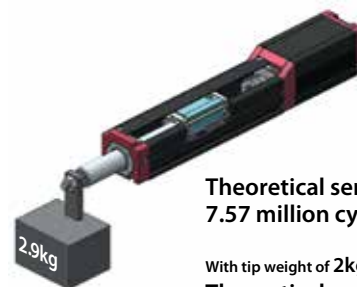
(1) There is no tip runout.

Since it has a built-in linear guide and the rod is supported by the guide, there is no runout to the tip.

(2) It can be used in narrow spaces.

Since there is no need for an external guide, it can be used even in narrow spaces to save overall space.

The theoretical operation life of the 315mm stroke Radial Cylinder, with a load of 2.9kg applied to the rod tip, is 4,770km. When the load on rod tip is halved, the theoretical service life increases 8-fold.



Theoretical service life: 4,770km
7.57 million cycles (when moving 315mm)

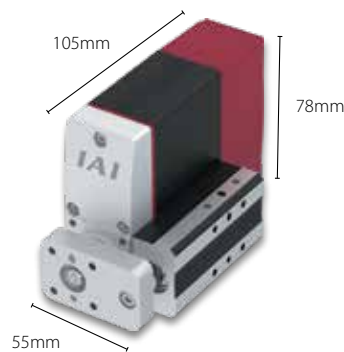
With tip weight of 2kg...
Theoretical service life: 14,547km
23.09 million cycles (when moving 315mm)

Palm size

Mini ELECYLINDER®

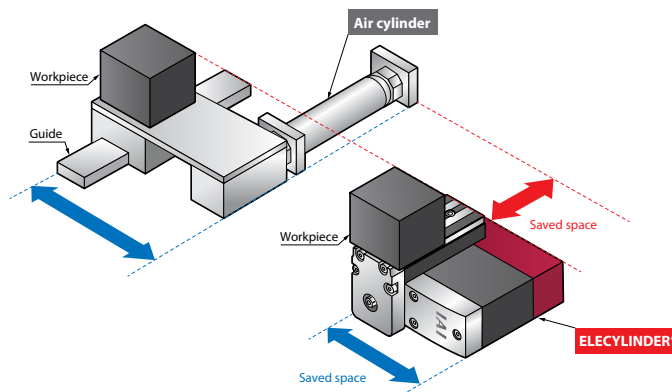
1. It can be used in narrow spaces.

- (1) The use of a nut rotation mechanism reduces the size.
- (2) Even with a built-in controller, the size is a compact 55mm × 105mm × 78mm.



2. As it has a guide, no external guide is required.

- (1) The guide design process can be eliminated.
- (2) It helps save space.



Body widths 35mm and 44mm are now available!

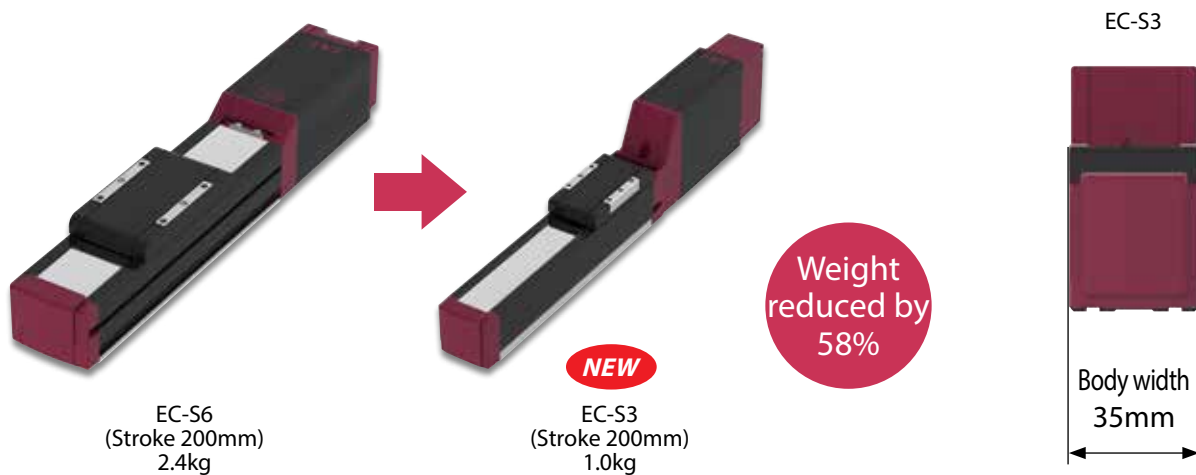
Compact slider Compact Radial Cylinder



1. Compact and lightweight

The body width is only 35mm wide thanks to the built-in controller.

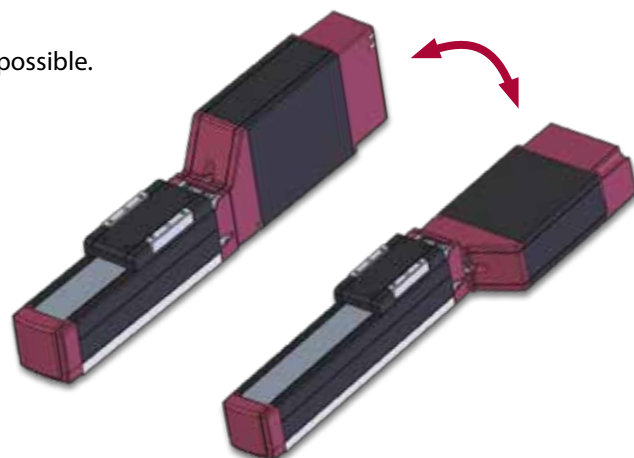
The main unit weight is reduced by 58%, compared to our conventional model with the same stroke.



2. Mounting direction of the motor and controller unit is selectable.

The direction of the motor and controller unit can be selected according to the application (See P105).

Retrofit changes of the mounting direction are also possible.



Motor side-mounted type is added as standard!

Motor side-mounted specification



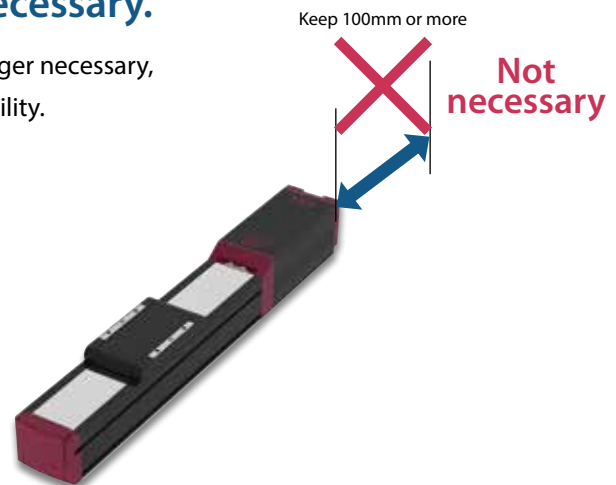
1. The overall length has been shortened.

The overall length has been shortened by up to 133.5mm, allowing a smaller installation space in the longitudinal direction.



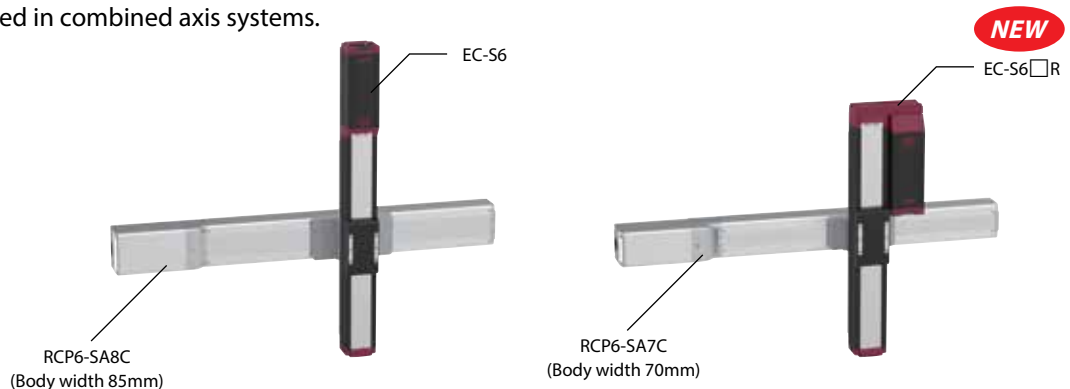
2. No extra space for maintenance is necessary.

A maintenance space required for the straight type is no longer necessary, providing wider options for equipment layout within the facility.



3. Compact combination possible

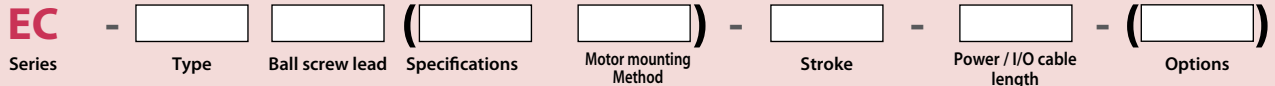
The shorter overall length results in a shorter overhang length, which allows more compact axes to be used in combined axis systems.



* Please refer to the IAI website for new products.

Model Specification Items

ELECYLINDER®



| | |
|-----|--|
| S3 | Slider width 35mm |
| S4 | Slider width 44mm |
| S6 | Slider 63mm width |
| S7 | Slider 73mm width (75mm for high rigidity type) |
| R6 | Rod 63mm width |
| R7 | Rod 73mm width |
| RR3 | Radial Cylinder width 35mm |
| RR4 | Radial Cylinder width 44mm |
| RR6 | Radial cylinder 63mm width |
| RR7 | Radial cylinder 73mm width (High rigid type is 75mm) |
| RP4 | Rod type side-mounted motor specification 34mm width |
| GS4 | Rod type side-mounted motor specification 55mm width (with single guide) |
| GD4 | Rod type side-mounted motor specification 76mm width (with double guide) |
| TC4 | Mini table type (table part) 31mm width |
| TW4 | Mini table type (table part) 73mm width |

| | |
|----|-----|
| 0 | 0m |
| ? | ? |
| 10 | 10m |

Cable length
0: Power I/O connector supplied
1 to 10: Power I/O cable supplied

| | |
|-----|-------|
| 30 | 30mm |
| ? | ? |
| 800 | 800mm |

| | |
|------------|---|
| Left blank | Slider type, rod type, radial cylinder type, mini table type |
| AH | High rigidity slider type High rigidity radial cylinder type |
| W | Waterproof specification |

| | |
|-------|----------------------------------|
| Blank | Motor in-line specification |
| R | Side-mounted motor specification |

| | |
|------------|---|
| Left blank | Incremental encoder specification, NPN specification, no option |
| ACS | Actuator pigtail cable length: 5m |
| B | Brake |
| FFA | Tip adapter (flange) |
| FL | Flange (front) |
| FT | Foot bracket (bolting from top) |
| GT2 | GS4 guide right mount / TC4 table right mount |
| GT3 | GS4 guide bottom mount / TC4 table bottom mount |
| GT4 | GS4 guide left mount / TC4 table left mount |
| ML | Side-mounted motor to the left |
| MR | Side-mounted motor to the right |
| MOB | Motor mounting direction change (bottom) |
| MOL | Motor mounting direction change (left) |
| MOR | Motor mounting direction change (right) |
| MOT | Motor mounting direction change (top) |
| NFA | Tip adapter (internal thread) |
| NJ | Knuckle joint |
| NJPB | Knuckle joint + oscillation receiving bracket |
| NM | Non-motor end specification |
| PN | PNP specification |
| QR | Clevis bracket |
| QRPB | Clevis bracket + oscillation receiving bracket |
| TMD2 | Split motor and controller power supply specification |
| WA | Battery-less Absolute Encoder specification |
| WL | Wireless communication specification |
| WL2 | Wireless axis-operation specifications |

| | | | | | | | | | |
|----------|----------|----------|------------|-------------|-----------|-------------|-----------|-----------------------|----------|
| <S3/RR3> | | <S4/RR4> | | <S6/R6/RR6> | | <S7/R7/RR7> | | <RP4/GS4/GD4/TC4/TW4> | |
| L | Lead 2mm | L | Lead 2.5mm | L | Lead 3mm | L | Lead 4mm | L | Lead 2mm |
| M | Lead 4mm | M | Lead 5mm | M | Lead 6mm | M | Lead 8mm | M | Lead 4mm |
| H | Lead 6mm | H | Lead 10mm | H | Lead 12mm | H | Lead 16mm | H | Lead 6mm |
| | | S | Lead 16mm | S | Lead 20mm | S | Lead 24mm | | |

* The range of selectable options varies according to the actuator type. For details, please refer to the pages showing each type.

Product List

*** Please refer to the IAI website for new products.**

Slider Type

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

| Spec | 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 |
| Coupled Motor | S3 | | | 6 | ±0.05 | 50 to 300 (per 50st) | 420 | 45 | 3.5 | 1.5 |
| | | | | 4 | | | 280 | 68 | 6 | 2.5 |
| | | | | 2 | | | 140 | 136 | 9 | 3.5 |
| | S4 | | | 16 | ±0.05 | 50 to 300 (per 50st) | 800 | 41 | 7 | 1.5 |
| | | | | 10 | | | 700 | 66 | 12 | 2.5 |
| | | | | 5 | | | 350 | 132 | 15 | 5 |
| | | | | 2.5 | | | 175 <150> | 263 | 18 | 6.5 |
| | S6 | | | 20 | ±0.05 | 50 to 400 (per 50st) | 800 | 67 | 15 | 1 |
| | | | | 12 | | | 700 | 112 | 26 | 2.5 |
| | | | | 6 | | | 450 | 224 | 32 | 6 |
| | | | | 3 | | | 225 | 449 | 40 | 12.5 |
| | S7 | | | 24 | ±0.05 | 50 to 500 (per 50st) | 860 | 139 | 37 | 3 |
| 16 | | | | 700 | | | 209 | 46 | 8 | |
| 8 | | | | 420 | | | 418 | 51 | 16 | |
| 4 | | | | 210 <175> | | | 836 | 51 | 19 | |
| Motor side-mounted specification | S6□R | | | 20 | ±0.05 | 50 to 400 (per 50st) | 800 | 67 | 15 | 1 |
| | | | | 12 | | | 700 | 112 | 26 | 2.5 |
| | | | | 6 | | | 450 <400> | 224 | 32 | 6 |
| | | | | 3 | | | 225 | 449 | 40 | 12.5 |
| | S7□R | | | 24 | ±0.05 | 50 to 500 (per 50st) | 860 | 139 | 37 | 3 |
| | | | | 16 | | | 700 | 209 | 46 | 8 |
| | | | | 8 | | | 420 <350> | 418 | 51 | 16 |
| | | | | 4 | | | 190 <175> | 836 | 51 | 19 |

Figures in <> represent vertical operations.

High Rigidity Slider Type

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

| Spec | 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 |
| Coupled Motor | S6□AH | | | 20 | ±0.05 | 50 to 800 (per 50st) | 1440 <1280> | 67 | 15 | 1 |
| | | | | 12 | | | 900 | 112 | 26 | 2.5 |
| | | | | 6 | | | 450 | 224 | 32 | 6 |
| | | | | 3 | | | 225 | 449 | 40 | 16 |
| | S7□AH | | | 24 | ±0.05 | 50 to 800 (per 50st) | 1230 | 139 | 37 | 3 |
| | | | | 16 | | | 980 <840> | 209 | 46 | 8 |
| Motor side-mounted specification | S6□AHR | | | 20 | ±0.05 | 50 to 800 (per 50st) | 1120 | 67 | 15 | 1 |
| | | | | 12 | | | 900 <800> | 112 | 26 | 2.5 |
| | | | | 6 | | | 450 <400> | 224 | 32 | 6 |
| | | | | 3 | | | 225 | 449 | 40 | 16 |
| | S7□AHR | | | 24 | ±0.05 | 50 to 800 (per 50st) | 1080 <860> | 139 | 37 | 3 |
| | | | | 16 | | | 840 <700> | 209 | 46 | 8 |
| | | | | 8 | | | 420 <350> | 418 | 51 | 16 |
| | | | | 4 | | | 190 <175> | 836 | 51 | 25 |

*** Please refer to the IAI website for new products.**

Product List

Mini Rod Type / Rod Type

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

| Spec | 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 |
| Motor side-mounted specification | 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 |
| Coupled Motor | R6 | | | 20 | ±0.05 | 50 to 300 (per 50st) | 800 | 67 | 6 | 1.5 |
| | | | | 12 | | | 700 | 112 | 25 | 4 |
| | | | | 6 | | | 450 | 224 | 40 | 10 |
| | | | | 3 | | | 225 | 449 | 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 |
| | | | | | | | | | | |

Figures in <> represent vertical operations.

Radial Cylinder

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

| Spec | 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 |
| Coupled Motor | RR3 | | | 6 | ±0.05 | 50 to 300 (per 50st) | 420 | 45 | 9 | 1.5 |
| | | | | 4 | | | 280 | 68 | 14 | 2.5 |
| | | | | 2 | | | 140 | 136 | 18 | 3.5 |
| | RR4 | | | 16 | ±0.05 | 50 to 300 (per 50st) | 800 | 41 | 7 | 1.5 |
| | | | | 10 | | | 700 | 66 | 16 | 2.5 |
| | | | | 5 | | | 350 | 132 | 25 | 5 |
| | | | | 2.5 | | | 175 <150> | 263 | 35 | 6.5 |
| | RR6 | | | 20 | ±0.05 | 65 to 315 (per 50st) | 800 | 67 | 6 | 1.5 |
| | | | | 12 | | | 700 | 112 | 25 | 4 |
| | | | | 6 | | | 450 | 224 | 40 | 10 |
| | | | | 3 | | | 225 | 449 | 60 | 12.5 |
| | RR7 | | | 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 | |
| | | | | | | | | | | |
| Motor side-mounted specification | RR6□R | | | 20 | ±0.05 | 65 to 315 (per 50st) | 800 | 67 | 6 | 1.5 |
| | | | | 12 | | | 700 | 112 | 25 | 4 |
| | | | | 6 | | | 450 | 224 | 40 | 10 |
| | | | | 3 | | | 225 | 449 | 60 | 12.5 |
| | RR7□R | | | 24 | ±0.05 | 65 to 315 (per 50st) | 860 <640> | 182 | 20 | 3 |
| | | | | 16 | | | 700 <560> | 273 | 50 | 8 |
| | | | | 8 | | | 320 <280> | 547 | 60 | 18 |
| | | | | 4 | | | 160 <140> | 1094 | 80 | 19 |
| | | | | | | | | | | |

Figures in <> represent vertical operations.

High Rigidity Radial Cylinder

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

| Spec | 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 |
| Coupled motor | RR6□AH | | | 20 | ±0.05 | 50 to 400 (per 50st) | 800 | 67 | 6 | 1.5 |
| | | | | 12 | | | 700 | 112 | 25 | 4 |
| | | | | 6 | | | 450 | 224 | 40 | 10 |
| | | | | 3 | | | 225 | 449 | 60 | 20 |
| | RR7□AH | | | 24 | ±0.05 | 50 to 500 (per 50st) | 860 <640> | 182 | 20 | 3 |
| | | | | 16 | | | 700 <560> | 273 | 50 | 8 |
| | | | | 8 | | | 350 | 547 | 60 | 18 |
| | | | | 4 | | | 175 | 1094 | 80 | 28 |
| Motor side-mounted specification | RR6□AHR | | | 20 | ±0.05 | 50 to 400 (per 50st) | 800 | 67 | 6 | 1.5 |
| | | | | 12 | | | 700 | 112 | 25 | 4 |
| | | | | 6 | | | 450 | 224 | 40 | 10 |
| | | | | 3 | | | 225 | 449 | 60 | 20 |
| | RR7□AHR | | | 24 | ±0.05 | 50 to 500 (per 50st) | 860 <640> | 182 | 20 | 3 |
| | | | | 16 | | | 640 <560> | 273 | 50 | 8 |
| | | | | 8 | | | 320 <280> | 547 | 60 | 18 |
| | | | | 4 | | | 150 <140> | 1094 | 80 | 28 |

Figures in < > represent vertical operations

Mini Table type

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

| Spec | 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 |
| Motor side-mounted specification | TC4 | | | 6 | ±0.05 | 30, 50 | 300 | 30 | 2.5 | 1 |
| | | | | 4 | | | 200 | 45 | 4 | 1.5 |
| | | | | 2 | | | 100 | 90 | 8 | 2.5 |
| | TW4 | | | 6 | ±0.05 | 30, 50 | 300 | 30 | 2.5 | 1 |
| | | | | 4 | | | 200 | 45 | 4 | 1.5 |
| | | | | 2 | | | 100 | 90 | 8 | 2.5 |

Figures in < > represent vertical operations

Splash-proof type

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

| Spec | 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 |
| Coupled motor | R6□W | | | 20 | ±0.05 | 50 to 300 (per 50st) | 800 | 67 | 6 | 1.5 |
| | | | | 12 | | | 700 | 112 | 25 | 4 |
| | | | | 6 | | | 450 | 224 | 40 | 10 |
| | | | | 3 | | | 225 | 449 | 60 | 12.5 |
| | R7□W | | | 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 |
| Coupled motor | RR6□W | | | 20 | ±0.05 | 65 to 315 (per 50st) | 800 | 67 | 6 | 1.5 |
| | | | | 12 | | | 700 | 112 | 25 | 4 |
| | | | | 6 | | | 450 | 224 | 40 | 10 |
| | | | | 3 | | | 225 | 449 | 60 | 12.5 |
| | RR7□W | | | 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 |

Figures in < > represent vertical operations

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

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