**RCP6(S)-WRA16R**

### Model Specification Items

- **Series**: RCP6: Separate Controller, RCP6(S): Built-in Controller
- **Type**: WA: Battery-less Absolute
- **Encoder Type**: 60P: Stepper Motor 60DC Size
- **Motor Type**: **Leads**
  - 20: 20mm / 10mm
  - 5: 5mm
- **Stroke**: 50 500mm / 800 800mm (10mm increments)
- **Applicable Controller/IO Type**: (RCP6): P4, (ROBO-CORE-CF) (RCP6(S)): SE, S40 Type
- **Cable Length**: N: None
  - P: 1m
  - S3: 3m
  - M: 5m
- **Options**
  - CE: Absolute
  - CF: Controller
  - RB: Brake

### Lead and Payload

- **Note 1**: The payload assumes that there is an external guide.
- **Note 2**: Please refer to P.12 for more information about the model specification items.
- **Note 3**: The radial cylinder is equipped with a built-in guide. Please refer to the graphs shown in P.127 and after for the allowable load mass.
- **Note 4**: When performing push motion operation, please confirm the push force of each model by checking the "Correlation diagram of push force and current limit" on P.113.
- **Note 5**: For RCP6(S) (built-in controller type), please limit the duty cycle to 70% or less.

#### Stroke (mm) RCP6 RCP6S Stroke (mm) RCP6 RCP6S

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Lead (mm)</th>
<th>Max. Payload (kg)</th>
<th>Stroke (mm)</th>
<th>Max. Speed (mm/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCP6(S)-WRA16R-WA-60P-20-10-05</td>
<td>20</td>
<td>30</td>
<td>-</td>
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<td>100</td>
<td>63</td>
<td></td>
</tr>
</tbody>
</table>

### Stroke and Max. Speed (Unit: mm/s)

- **Values in brackets < > are for vertical use.**

### Motor Side-mounted

- For RCP6S (built-in controller type), please limit the duty cycle to 70% or less.

### Correlation Diagrams of Speed and Payload

- **PCON connected.**
- **RCP6(S)-WRA16R Horizontal mount**
- **RCP6(S)-WRA16R Vertical mount**

### Actuator Specifications

- **Cable Length**
  - **Cable Type**: P1 (m) / S (m) / M (m) / X06 (m) / X10 (m)
  - **Specified Length**: X06 (m) / X10 (m)
  - **Robot Cable**: R01 (m) / R03 (m)
  - **Robot Cable**: R06 (m) / R10 (m)

### Actuator Specifications

- **Drive system**: Ball screw 416mm, rolled 1:10
- **Positioning repeatability**: ±0.01mm
- **Lost motion**: 0.1mm or less
- **Rod**: 645mm Stainless steel
- **Allowable load and torque on rod tip**: See P.127
- **Rod tip overhang distance**: 150mm

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*Please refer to P.144 for more information regarding the maintenance cables.*

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*Please refer to P.12 for more information about the model specification items.

*The figure above is the motor side-mounted to the left (ML).*

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*Depending on the model, there may be some limitations to the vertical side, and cable mounting positions. Please contact IAI for more information regarding mounting positions.*

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*When selecting T-slot nut bar with a side-mounted motor model, please choose NTBR when the motor is side-mounted to the left, and NTBL when the motor is side-mounted to the right.*

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*When selecting multiple options, please list them in alphabetical order. (e.g. B-CJB-NM)*

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*Please refer to P.114 for more information.*
The RCP6 series actuators can be operated by the controllers indicated below. Please select the type depending on your intended use. * Please refer to P.147 for more information about the built-in controller of RCP6S series.

- **PCON-CFB/CGFB**
  - Input power: DC24V
  - Control method: "Option"" Option"
  - Number of positioning points: 512
  - Reference page: Please see P.131