**Actuator Specifications**

### Lead and Load Capacity

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RCS2CR-SA4C-1</td>
<td>20</td>
<td>10</td>
<td>4</td>
<td>1</td>
<td>19.6</td>
</tr>
<tr>
<td>RCS2CR-SA4C-2</td>
<td>10</td>
<td>5</td>
<td>6</td>
<td>2.5</td>
<td>39.2</td>
</tr>
<tr>
<td>RCS2CR-SA4C-3</td>
<td>5</td>
<td>8</td>
<td>4</td>
<td>4.5</td>
<td>78.4</td>
</tr>
</tbody>
</table>

**Stroke, Max. Speed/Suction Volume**

<table>
<thead>
<tr>
<th>Stroke</th>
<th>Max. Speed [mm/s]</th>
<th>Suction Volume [Nl/min]</th>
</tr>
</thead>
<tbody>
<tr>
<td>50–400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>165</td>
<td>15</td>
</tr>
</tbody>
</table>

### Encoder & Stroke List

<table>
<thead>
<tr>
<th>Stroke [mm]</th>
<th>Encoder Type</th>
<th>Standard Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>Incremental</td>
<td></td>
</tr>
<tr>
<td>150</td>
<td>Incremental</td>
<td></td>
</tr>
<tr>
<td>165</td>
<td>Absolute</td>
<td></td>
</tr>
</tbody>
</table>

### Cable List

<table>
<thead>
<tr>
<th>Type</th>
<th>Cable Symbol</th>
<th>Standard Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>R01</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>R03</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>R06</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>R11</td>
<td></td>
</tr>
<tr>
<td>16m</td>
<td>R15</td>
<td></td>
</tr>
<tr>
<td>Robot</td>
<td>R20</td>
<td></td>
</tr>
</tbody>
</table>

### Option List

- **Encoder**
  - Option Code: A
  - See Page: A-25
- **Foot Bracket**
  - Option Code: A
  - See Page: A-29
- **Reach**
  - Option Code: M
  - See Page: A-32
- **Rearward Home**
  - Option Code: N
  - See Page: A-33
- **Slider Space**
  - Option Code: S
  - See Page: A-36
- **Write Port Mounted on Opposite Side**
  - Option Code: V
  - See Page: A-38

### Actuator Specifications

- **Drive System**: Ball screw 8mm C10 grade
- **Positioning Repetitiviy**: ±0.02mm
- **Cushion Load**: 0.1mm or less
- **Allowable Static Moment**: Max: 2.9N·m Min: 1.9N·m M: 17,6N·m
- **Allowable Dynamic Moment**: Max: 2.7N·m Min: 1.9N·m M: 8.7N·m
- **Overhang Length**: Max therefore 120mm or less, 160M: Max 160mm or less
- **preload type**: Low load pre-insertion grease 8mm ball screw oval guide
- **Temperature/Relative Humidity**: 15°C to 40°C, 20% to 90% RH or less (non-condensation)

(*) Based on a 5,000km service life. Directions of Allowable Load Moments

- **Ma**
- **Mb**
- **Mc**
- **Ma**
- **Mb**
- **Mc**

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**RCS2CR-SA4C**

- **Cleanroom ROBO Cylinder**
- **Sliding Coupling Type**
- **40mm Width**
- **200V Servo Motor**
- **Aluminum Base**

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**RCS2CR-SA4C**

- **Configuration**
  - **Series**: RCS2CR
  - **Type**: SA4C
- **Encoder**
  - **Output**: 20 [20W servo motor]
- **Motor**: 10 [10N·m]
- **Lead**: 5 [5mm]
- **Stroke**: 50 [50mm]

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**NOTES ON SELECTION**

1. When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching the critical rotational speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
2. The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 2.5mm-lead model). This is the upper limit of the acceleration.
### Dimensions

1. The motor-encoder cable is connected here. See page A-30 for details on cables.
2. When homing, the slider moves to the ME; therefore, please watch for any interference with the surrounding objects.
3. Reference position for calculating the moment Ma.
4. If the actuator is secured using only the mounting holes provided on the top surface of the base, the base may twist to cause abnormal sliding of the slider, or may produce abnormal noise. Therefore, when using the mounting holes on the top surface of the base, keep the stroke at 200mm or less.

#### Details of the slotted area
- Actuator’s reference side
- Depth 3.7 (for mounting actuator) *
- 4-M3 depth 72 ø3H7 depth 5

#### 3.2 Special Orders
For Special Orders

#### Compatible Controllers

The RCS2CR series actuators can operate with the controllers below. Select the controller according to your usage.

<table>
<thead>
<tr>
<th>Name</th>
<th>External View</th>
<th>Model</th>
<th>Description</th>
<th>Max. Positioning Points</th>
<th>Input Voltage</th>
<th>Power Supply Capacity</th>
<th>Standard Size</th>
<th>See Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positioner Mode</td>
<td></td>
<td>SCOCN-C-20 (-NP-2-2)</td>
<td>Positioning is possible for up to 512 points</td>
<td>512 points</td>
<td>Single-phase AC200V</td>
<td>380Vac max.</td>
<td>—</td>
<td>— P547</td>
</tr>
<tr>
<td>Solenoid Valve Mode</td>
<td></td>
<td>SSEL-C-1-20 (-NP-2-2)</td>
<td>Operable with the same controls as the solenoid valve</td>
<td>7 points</td>
<td>Single-phase AC200V</td>
<td>—</td>
<td>— P577</td>
<td></td>
</tr>
<tr>
<td>Serial Communication Type</td>
<td></td>
<td>SCON-C-20 (-NP-2-2)</td>
<td>Dedicated to serial communication</td>
<td>64 points</td>
<td>Three-phase AC200V (300-PIG only)</td>
<td>—</td>
<td>— P527</td>
<td></td>
</tr>
<tr>
<td>Pulse Train Input Control Type</td>
<td></td>
<td>PCON-C-20 (-NP-2-2)</td>
<td>Dedicated to pulse train input</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>— P527</td>
<td></td>
</tr>
<tr>
<td>Program Control 1-2 Axis Type</td>
<td></td>
<td>SSEL-C-1-32 (-NP-2-2)</td>
<td>Programmed operation is possible</td>
<td>2000 points</td>
<td>—</td>
<td>—</td>
<td>— P527</td>
<td></td>
</tr>
<tr>
<td>Program Control 1-4 Axis Type</td>
<td></td>
<td>SSEL-C-1-32 (-NP-2-2)</td>
<td>Programmed operation is possible</td>
<td>2000 points</td>
<td>—</td>
<td>—</td>
<td>— P527</td>
<td></td>
</tr>
</tbody>
</table>

* For SSEL and XSEL, only applicable to the single-axis model.
* 1: A placeholder for the encoder type (I: incremental, A: absolute).
* 2: A placeholder for the power supply voltage (1: 100V, 2: Single-phase 200V).
* 3: A placeholder for the XSEL type name (J, K, P, Q).
* 4: A placeholder for the power supply voltage (1: 100V, 2: single-phase 200V, 3: 3-phase 200V).