## RCA2-TCA3N
### ROBO Cylinder
#### Mini Table Type
##### Short-Length Compact Model
- **Width:** 32mm
- **Servo Motor:** 24V
- **Lead Screw:**
  - **Stroke:** 30mm
- **Cable List:**
  - **Actuator Specifications**
  - **Stroke and Maximum Speed**
  - **Cable Length** (**Unit:** mm)
  - **Options**

### Lead and Load Capacity
- **Model:** RCA2-TCA3N-I-10-4S-30-
- **Motor Output (W):** 0.25
- **Max. Lead Capacity (mm):** 0.125
- **Lead Screw:**
  - **Stroke:** 30 (Fixed)
  - **Load (mm):**
    - **Horizontal:** 0.25
    - **Vertical:** 0.125

### Stroke and Maximum Speed
- **Model:**
  - **Stroke:** 30 (Fixed)
  - **Lead Screw:**
    - **Horizontal:** 4
    - **Vertical:** 2
- **Max. Speed (mm/s):**
  - **Horizontal:** 200
  - **Vertical:** 100

### Cable List
- **Type:**
  - **Robot Cables:**
    - **Standard:**
      - **P (1m):** –
      - **S (3m):** –
      - **M (5m):** –
    - **Special Lengths:**
      - **X06 (6m):** –
      - **X10 (10m):** –
      - **X11 (11m):** –
      - **X15 (15m):** –
      - **X16 (15m):** –
      - **X20 (20m):** –

### Notes on Selection
- **(1)** The load capacity is based on operation at an acceleration of 0.2G. This is the upper limit of the acceleration.
- **(2)** This model uses a Lead screw, therefore please ensure that your usage is appropriate for its characteristics. (See page Pre-42 for more information.)

### Configuration
- **Series:** RCA2
- **Type:** TCA3N
- **Encoder:** Incremental
- **Motor:** 10W servo motor
- **Stroke:** 30mm

### Lead Screw
- **Lead:** ø4mm
- **Thread:** M4

### Actuator Specifications
- **Frame/Type:** Table/Arm
- **Type:** Cleanroom
- **Ambient Operating Temp./Humidity:** 0°C to 40°C, 85% RH or less (non-condensing)
- **Service Life:** Horizontal: 10 million cycles, Vertical: 5 million cycles
- **Allowable Dynamic Moment:** Max: 9.9 Nm, Mtc: 9.9 Nm, Mc: 3.3 Nm
- **Service Life:**
  - **Based on a 5,000 km service life set for the guide.**

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### RCA2-TCA3N

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[Image of ROBO Cylinder Mini Table Type Short-Length Compact Model 32mm Width]
The RCA2 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 Price</th>
<th>See Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solenoid Valve Type</td>
<td>AMEC-C-10I</td>
<td>-NP-2-0</td>
<td>Easy-to-use controller, even for beginners</td>
<td>3 points</td>
<td>AC100V</td>
<td>2.4A-rated</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>ASEP-C-10I</td>
<td>-NP-2-0</td>
<td>Operable with same signal as solenoid valve. No homing necessary with simple absolute type.</td>
<td></td>
<td>DC24V</td>
<td>4.4A max.</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>ASEP-CN-10I</td>
<td>-NP-2-0</td>
<td>(Power-saving)</td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Positioner Type</td>
<td>ACON-C-10I</td>
<td>-NP-2-0</td>
<td>Positioning is possible for up to 512 points</td>
<td>512 points</td>
<td>AC100V</td>
<td>2.4A-rated</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>ACON-CN-10I</td>
<td>-NP-2-0</td>
<td>(Standard)</td>
<td></td>
<td>DC24V</td>
<td>2.5A max.</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>ACON-CN-10I</td>
<td>-NP-2-0</td>
<td>(Power-saving)</td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Pulse Train Input Type</td>
<td>ACON-PL-10I</td>
<td>-NP-2-0</td>
<td>Pulse train input type with differential line driver support</td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>ACON-PL-10I</td>
<td>-NP-2-0</td>
<td>Pulse train input type with open collector support</td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Serial Communication Type</td>
<td>ACON-SE-10I</td>
<td>-NP-2-0</td>
<td>Dedicated to serial communication</td>
<td>64 points</td>
<td>AC100V</td>
<td>2.4A-rated</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Field Network Type</td>
<td>RACON-10I</td>
<td>-NP-2-0</td>
<td>Dedicated to field network</td>
<td>768 points</td>
<td>AC100V</td>
<td>2.4A-rated</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Program Control Type</td>
<td>ASEL-C-1-10I</td>
<td>-NP-2-0</td>
<td>Programmed operation is possible on up to 2 axes</td>
<td>1520 points</td>
<td>AC100V</td>
<td>2.4A-rated</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

* This is for the single-axis ASEL.
* 1 is a placeholder for the code “LA” if the power-saving option is specified.