## RCS2CR $\quad$ rosoc cyinder



## C $\in$ Rots

*CE compliance is optional.

| Technical <br> References | $\stackrel{y}{3}$Appendix <br> P. |
| :--- | :--- |

(1) When the stroke increases, the maximum 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 0.3 G ( 0.2 G for the 4 mm -lead model). These values are the upper limits for the acceleration.
(3) The cleanliness class 10 is for horizontal usage.

Please note that the actuator may not support C 10 when used on its side or in vertical orientation.
(4) See page A-71 for details on push motion.

| Actuator Specifications |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - Lead and Payload |  |  |  |  |  |  | $\square$ Stroke and Max. Speed/Suction Volume by Lead |  |  |  |  |
| Model number | Motor | Lead | Max. Load | Capacity | Rated thrust ( N | Stroke (mm) | Stroke | 50~600 | ~700 | ~800 | Suction Volume |
| RCS2CR-SA7C- (1)-60-16-(2)-(3)-(4)-(5) | 60 | 16 | 12 | 3 | 63.8 | $\begin{gathered} 50 \sim 800 \\ \text { (every } 50 \mathrm{~mm} \text { ) } \end{gathered}$ | 16 | 800 | 640 | 480 | 50 |
| RCS2CR-SA7C-(1)-60-8-(2)-(3)-(4)-(5) |  | 8 | 25 | 6 | 127.5 |  | 8 | 400 | 320 | 240 | 30 |
| RCS2CR-SA7C- (1)-60-4-(2)-(3)-(4)-(5) |  | 4 | 40 | 12 | 255.0 |  | 4 | 200 | 160 | 120 | 10 |

Code explanation (1) Encoder (2) Stroke (3) Applicable Controller (4) Cable length (5) Options *See page A-71 for details on push motion.
(Unit: mm/s)
(1) Encoder type/(2)Stroke

| (2) Stroke (mm) | Standard price |  |
| :---: | :---: | :---: |
|  | (1) Encoder Type |  |
|  | Incremental |  |
|  | $\mathbf{I}$ | Absolute |
| $\mathbf{5 0 / 1 0 0}$ | - | $\mathbf{A}$ |
| $\mathbf{1 5 0 / 2 0 0}$ | - | - |
| $\mathbf{2 5 0 / 3 0 0}$ | - | - |
| $\mathbf{3 5 0 / 4 0 0}$ | - | - |
| $\mathbf{4 5 0 / 5 0 0}$ | - | - |
| $\mathbf{5 5 0 / 6 0 0}$ | - | - |
| $\mathbf{6 5 0 / 7 0 0}$ | - | - |
| $\mathbf{7 5 0 / 8 0 0}$ | - | - |

(4)Cable Length

| Type | Cable symbol | Standard price |
| :---: | :--- | :---: |
| Standard | $\mathbf{P}(1 \mathrm{~m})$ | - |
|  | $\mathbf{S}(3 \mathrm{~m})$ | - |
|  | $\mathbf{M}(5 \mathrm{~m})$ | - |
|  | $\mathbf{X 0 6}(6 \mathrm{~m}) \sim \mathbf{X 1 0}(10 \mathrm{~m})$ | - |
|  | $\mathbf{X 1 1}(11 \mathrm{~m}) \sim \mathbf{X 1 5}(15 \mathrm{~m})$ | - |
|  | $\mathbf{X 1 6}(16 \mathrm{~m}) \sim \mathbf{X 2 0}(20 \mathrm{~m})$ | - |
|  | $\mathbf{R 0 1}(1 \mathrm{~m}) \sim \mathbf{R 0 3}(3 \mathrm{~m})$ | - |
|  | $\mathbf{R 0 4}(4 \mathrm{~m}) \sim \mathbf{R 0 5}(5 \mathrm{~m})$ | - |
|  | $\mathbf{R 0 6}(6 \mathrm{~m}) \sim \mathbf{R 1 0}(10 \mathrm{~m})$ | - |
|  | $\mathbf{R 1 1}(11 \mathrm{~m}) \sim \mathbf{R 1 5}(15 \mathrm{~m})$ | - |
|  | $\mathbf{R 1 6}(16 \mathrm{~m}) \sim \mathbf{R 2 0}(20 \mathrm{~m})$ | - |

* See page A-59 for cables for maintenance.
(5) Options

| Name | Option code | See page | Standard price |
| :--- | :---: | :---: | :---: |
| Brake (cable exiting from end) | BE | $\rightarrow \mathrm{A}-42$ | - |
| Brake (cable exiting from left) | BL | $\rightarrow \mathrm{A}-42$ | - |
| Brake (cable exiting from right) | BR | $\rightarrow \mathrm{A}-42$ | - |
| CE compliance | CE | $\rightarrow \mathrm{A}-42$ | - |
| Non-motor end specification | NM | $\rightarrow \mathrm{A}-52$ | - |
| Vacuum port on opposite side | VR | $\rightarrow \mathrm{A}-58$ | - |



## CAD drawings can be downloaded Www.intelligentactuator.com from the website.

 | For Special Orders | Appendix |
| :---: | :---: | :---: |


*For the non-motor end model, the dimensions (distance to home) on the motor-side and that on the opposite side are flipped.


F- 6 through, 09.5 counterbore,
depth 5.5 (from opposite site)
$\mathrm{E}-64 \mathrm{H} 7$, depth 6 from the bottom of the base



## Dimensions and Weight by Stroke

| Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| L | 332.5 | 382.5 | 432.5 | 482.5 | 532.5 | 582.5 | 632.5 | 682.5 | 732.5 | 782.5 | 832.5 | 882.5 | 932.5 | 982.5 | 1032.5 | 1082.5 |
| A | 0 | 100 | 100 | 200 | 200 | 300 | 300 | 400 | 400 | 500 | 500 | 600 | 600 | 700 | 700 | 800 |
| B | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 |
| C | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 |
| D | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 |
| E | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| F | 4 | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 |
| H | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| P | 0 | 85 | 85 | 185 | 185 | 285 | 285 | 385 | 385 | 485 | 485 | 585 | 585 | 685 | 685 | 785 |
| Weight (kg) | 2.6 | 2.8 | 3.0 | 3.2 | 3.5 | 3.7 | 3.9 | 4.1 | 4.4 | 4.6 | 4.8 | 5.0 | 5.3 | 5.5 | 5.7 | 5.9 |

1) Connect the motor and encoder cables here.

See page A-59 for details on cables.
(*2) After homing, the slider moves to the ME, therefore, please watch for any interference with surrounding objects.
ME: Mechanical end SE: Stroke end
The values enclosed in "( )" are reference dimensions.
(*3) Reference position for calculating the moment Ma.
(8)Applicable Controllers

RCS2CR-series actuators can be operated with the following controllers. Select an appropriate controller type according to your application.

| Name | External view | Model number | Features | Maximum number of positioning points | Input power | Power supply capacity | Standard price | Reference page |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Positioner mode |  | SCON-CA-60(1)-NP-2-(II) | Up to 512 positioning points are supported. | 512 points | Single-phase <br> 100VAC <br> Single-phase 200VAC <br> 3-phase <br> 200VAC <br> (XSEL-P/Q/R/S ONLY) | 218 VA max. <br> *Power supply capacity will vary depending on the controller, so please refer to the instruction manual for details. |  | $\rightarrow$ P643 |
| Solenoid valve mode |  |  | Actuators can be operated through the same control used for solenoid valves. | 7 points |  |  |  |  |
| Field network type |  |  | Movement by numerical specification is supported. | 768 points |  |  | - |  |
| Pulse-train input control type |  |  | Dedicated pulse-train input type | (-) |  |  | - |  |
| Positioner multi-axis, network type | bity | MSCON-C-1-60 (1)-(V)-0-(II) | Up to 6 axes can be operated. Movement by numerical specification is supported. | 256 points |  |  | - | $\rightarrow$ P655 |
| Program control type, 1 to 2 axes | -15 | SSEL-CS-1-60(1)-NP-2-(II) | Program operation is supported. Up to 2 axes can be operated. | 20,000 points |  |  | - | $\rightarrow$ P685 |
| Program control type, 1 to 8 axes |  | XSEL-(III-1-60 (1)-N1-EEE-2-(IV) | Program operation is supported. Up to 8 axes can be operated. | Varies depending on the number of axes connected |  |  | - | $\rightarrow$ P695 |

* This is for the single-axis MSCON, SSEL, and XSEL.
* (1) indicates the encoder type (I: Incremental / A: Absolute).
* (II) indicates the power-supply voltage type (1:100V / 2: Single-phase 200V).
* (III) indicates the XSEL type ( $\mathrm{J} / \mathrm{K} / \mathrm{P} / \mathrm{Q} / \mathrm{R} / \mathrm{S}$ ).
* (1) indicates the power-supply voltage type (1:100V/2: Single-phase 200V/3: Three-phase 200V). * (V) indicates field network specification symbol.

