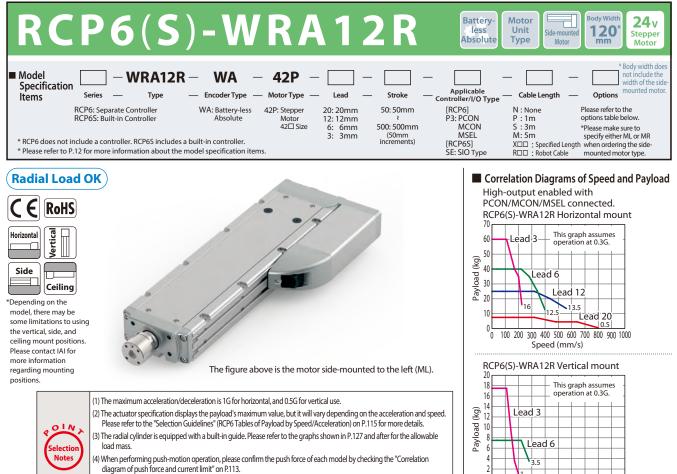
## RCP6 ROBO Cylinder®



| (5) Depending | g on the ambient operational temperature, duty control is necessary for the RCP6S (built-in controller type) with |  |
|---------------|---|--|
| lead 3/6. P   | Please refer to P.130 for more information.   |  |

| Actuator Specifications   |              |                         |    |                         |                          |                        |                        |                        |                        |             |   |              |
|---|--------------|-------------------------|----|-------------------------|--------------------------|------------------------|------------------------|------------------------|------------------------|-------------|---|--------------|
| Lead and Payload (Note 1) The payload assumes that there is an external guide. Stroke and Max. Speed (Unit: mm/s        |              |                         |    |                         |                          |                        |                        |                        |                        |             |   |              |
| Model Number  | Lead<br>(mm) | Connected<br>Controller |    | ayload<br>Vertical (kg) | Stroke<br>(mm)           | Leac<br>(mm)           |                        | 50~400<br>(Every 50mm) | 450<br>(mm)            | 500<br>(mm) |   |              |
| RCP6(S)-WRA12R-WA-42P-20-D-2  | 20           | High-output<br>Enabled  |    |                         | 20                       | High-output<br>Enabled | 800                    |                        |                        |             |   |              |
| RCP6(S)-WRA12R-WA-42P-12-0-2-3-4  | 12           | High-output<br>Enabled  | 30 | -                       | 50~500<br>(The increment | 12                     | High-output<br>Enabled | 560                    |                        |             |   |              |
| RCP6(S)-WRA12R-WA-42P-6-①-②-③-④   | 6            | High-output<br>Enabled  | 55 | 7.5                     | of stroke is<br>50mm)    | of stroke is           | of stroke is           | 6                      | High-output<br>Enabled | 40<br><28   | - | 375<br><280> |
| RCP6(S)-WRA12R-WA-42P-3-0-2   | 3            | High-output<br>Enabled  | 70 | 17.5                    |                          | 3                      | High-output<br>Enabled | 225<br><200>           | 220<br><200>           | 185         |   |              |
| Legend: ① Stroke ② Applicable controller/I/O type ③ Cable length ④ Options Values in brackets < > are for vertical use. |              |                         |    |                         |                          |                        |                        |                        |                        |             |   |              |

| ① Stroke    |      |       |             |      |       |
|-------------|------|-------|-------------|------|-------|
| Stroke (mm) | RCP6 | RCP6S | Stroke (mm) | RCP6 | RCP6S |
| 50          | 0    | 0     | 300         | 0    | 0     |
| 100         | 0    | 0     | 350         | 0    | 0     |
| 150         | 0    | 0     | 400         | 0    | 0     |
| 200         | 0    | 0     | 450         | 0    | 0     |

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| Options                         |             |                |
|---------------------------------|-------------|----------------|
| Name                            | Option Code | Reference Page |
| Brake                           | В           | See P.105      |
| Cable exit direction (Outside)  | CJO         | See P.105      |
| Flange                          | FL          | See P.106      |
| Motor side-mounted to the left  | ML          | See P.109      |
| Motor side-mounted to the right | MR          | See P.109      |
| Non-motor end specification     | NM          | See P.110      |
| T-slot nut bar (Left)           | NTBL        | See P.110      |
| T-slot nut bar (Right)          | NTBR        | See P.110      |

\* When selecting T-slot nut bar option 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.

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

| ③ Cable Len      | gth                  |      |       |
|------------------|----------------------|------|-------|
| Cable Type       | Cable Code           | RCP6 | RCP6S |
|                  | <b>P</b> (1m)        | 0    | 0     |
| Standard         | <b>S</b> (3m)        | 0    | 0     |
|                  | <b>M</b> (5m)        | 0    | 0     |
| Specified Length | X06 (6m) ~X10 (10m)  | 0    | 0     |
|                  | X11 (11m) ~X15 (15m) | 0    | 0     |
|                  | X16 (16m) ~X20 (20m) | 0    | 0     |
|                  | R01 (1m) ~R03 (3m)   | 0    | 0     |
|                  | R04 (4m) ~R05 (5m)   | 0    | 0     |
| Robot Cable      | R06 (6m) ~R10 (10m)  | 0    | 0     |
|                  | R11 (11m) ~R15 (15m) | 0    | 0     |
|                  | R16 (16m) ~R20 (20m) | 0    | 0     |

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100 200 300 400 500 600 700 800 900 1000

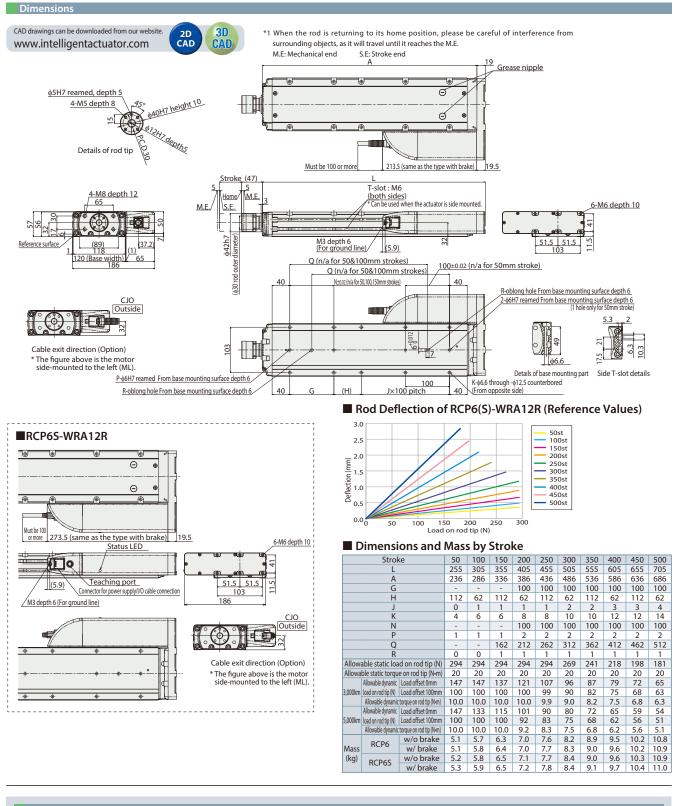
Speed (mm/s)

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

## Actuator Specifications

| ltem                                 | Description                             |  |  |  |  |
|--------------------------------------|---|--|--|--|--|
| Drive system                         | Ball screw ø10mm, rolled C10            |  |  |  |  |
| Positioning repeatability            | ±0.01mm                                 |  |  |  |  |
| Lost motion                          | 0.1mm or less                           |  |  |  |  |
| Rod                                  | φ30mm Stainless steel                   |  |  |  |  |
| Rod non-rotation precision           | 0 deg.                                  |  |  |  |  |
| Allowable load and torque on rod tip | See P. 127                              |  |  |  |  |
| Rod tip overhang distance            | 100mm                                   |  |  |  |  |
| Ambient operating temp. & humidity   | 0~40°C, 85% RH or less (Non-condensing) |  |  |  |  |

## RCP6 ROBO Cylinder®



|             | External | Max. number of  |                            | Please select the type depending on your intended use. * Please refer to P.147 for mo<br>Control method |                            |         | Maximum number                 |                                 |                                |                                       |
|-------------|----------|-----------------|----------------------------|---|----------------------------|---------|--------------------------------|---------------------------------|--------------------------------|---------------------------------------|
| Name        | view     | controlled axes | Input power                | Positioner  | Pulse train                | Program | Network *Option                |                                 | of positioning points          | Reference page                        |
| PCON-CB/CGB | Ĵ        | 1               | DC24V                      | ●<br>*Option  | ●<br>*Option               | -       | DeviceNet<br>CC-Link           |                                 | 512<br>(768 for network spec.) | Please see P.131                      |
| MCON-C/CG   |          | 4               |                            |   | This model i<br>k-compatib | -       | CompoNet                       | 256                             | Please see the MCO<br>catalog. |                                       |
| MSEL-PC/PG  | 0        | 4               | Single-phase<br>100~230VAC |   | -                          | •       | will vary deper<br>controller. | nding on the reference page for | 30,000                         | Please see the MSEL<br>PC/PG catalog. |

\*Please select "high-output specification" as an option for the MCON. With the MCON, operation is possible only when the high-output specification is selected.

