

ROBO Cylinder 6



Actuator with Built-in Controller RCP6S (On left)
Quadruple Radial Cylinder Application (On right)

POINT 1

Equipped with the High Resolution Battery-less Absolute Encoder as Standard

No maintenance is required since there is no battery. Since home-return operation is not required at start up or after an emergency stop or malfunction, this reduces your operational time, resulting in reduced production costs.



Battery-less Absolute Encoder

No Battery, No Maintenance, No Homing,
and No Price Increase.
No Going Back to Incremental.

POINT 2

±20μm of Positioning Repeatability for the Current ROBO Cylinder Has Improved Improved Positioning Repeatability for Standard Specification: **±10μm**

Standard Specification	±10μm
High-precision Specification	±5μm (Available only for RCP6-SA / WSA types)

POINT 3

RCP6S Actuator with Built-in Controller

What is the RCP6S actuator with a built-in controller?

RCP6S is an RCP6 actuator with a built-in controller.
No external controller is needed, making the control panel more compact.

16 axes of RCP6S at max. are available to connect from one unit of gateway unit.

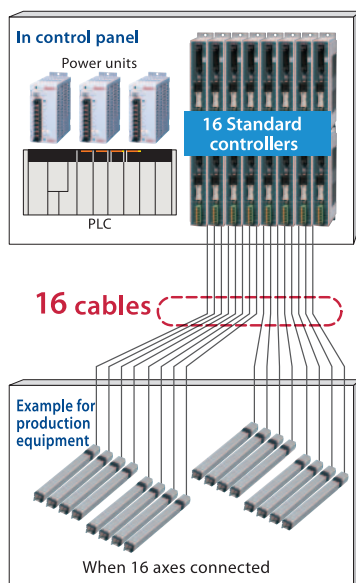
A maximum of 16 axes of RCP6S (relayed through a hub unit) can be connected to one gateway unit.

In addition, the gateway unit can supply the motor power and control power needed for all connected axes, therefore only requiring one cable (power and communication line) for the RCP6S.

The RCP6S actuator with built-In controller has the following advantages:

- Control panel can be smaller
- Wiring can be easier.
- Reduced maintenance parts since a common cable is used.

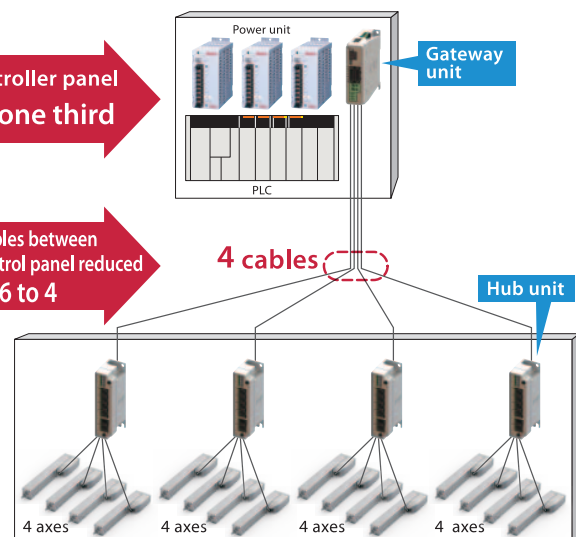
Control Panel for Standard Controllers



Control Panel for RCP6S Controller Built-in Actuator

Size of the controller panel reduced to one third

Number of cables between equipment and control panel reduced from 16 to 4



POINT 4

ROBO Cylinder Series

Product Types

- Rod Type
- Radial Cylinder Type
- Wide Type
- Table Type
- Slider Type

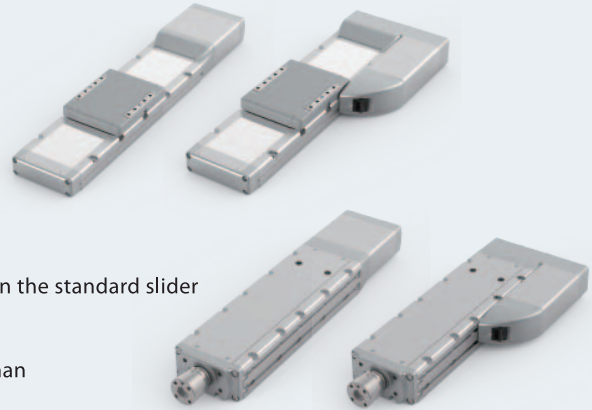
Features of the Wide Type

(1) Wide Slider Type

Allowable dynamic moment is **14** times higher than the standard slider

(2) Wide Radial Cylinder

Allowable torque on the rod tip is **3** times higher than the standard radial cylinder



POINT 5

Selection of PowerCON® Compatible Controllers Is Available

The RCP6 is compatible with PowerCON, the controller equipped with a high-output driver. Thanks to the PowerCON, the stepper motor has achieved higher output. This has reduced the production cycle time, leading to improved productivity of the equipment. You can choose from two controllers compatible with PowerCON: the "separate type" and "built-in type".

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