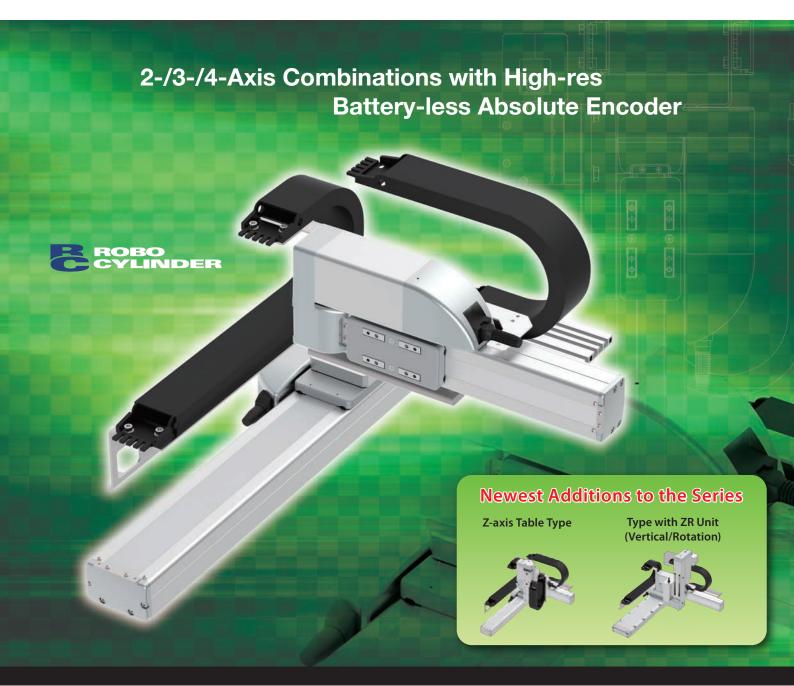


Cartesian RCP6 RoboCylinder System

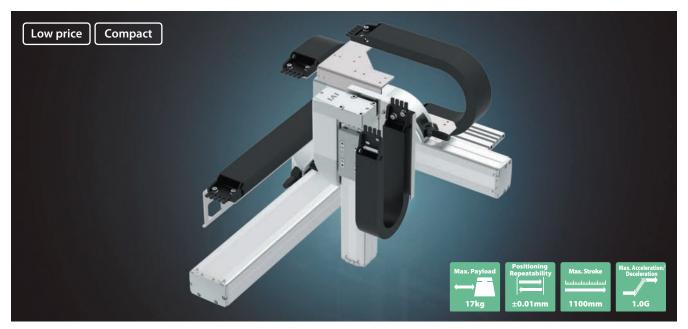
IK-P6 Series



Cartesian RoboCylinder have never been more affordable.

The RoboCylinder equipped as standard with a Battery-less Absolute Encoder has been added to the "IK Series". It helps reduce the design and assembly steps.

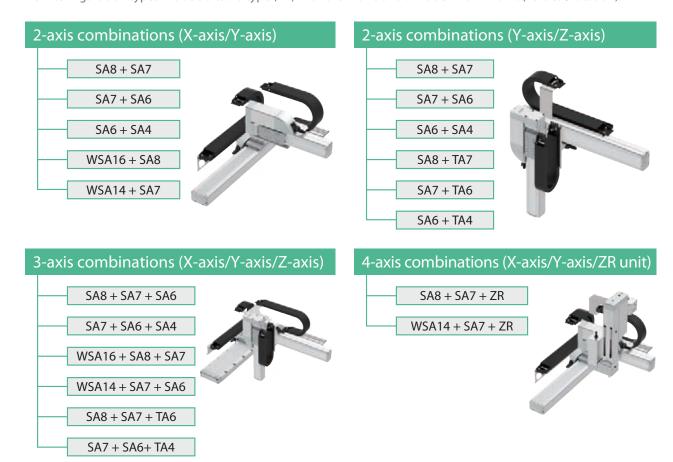
The RoboCylinder RCP6 Series has been adopted to achieve even higher speeds compared with conventional models.



Diverse Combinations

The available combinatations have been greatly expanded from the conventional models, allowing the ideal selection to suit your needs from 516 options.

New configuration types include a table type (TA) with the Z-axis and a model with ZR unit (vertical/rotation).



Proof of the Proof of the Proo

Equipped as standard with Battery-less Absolute Encoder for all configuration axes. No battery maintenance is required since there is no battery.

Homing operation is not required at startup or after emergency stop or malfunction. This reduces your operation time, resulting in reduced production costs.



The advantages of using an absolute encoder.

- (1) With an absolute encoder, home return is not required.
- (2) No external home sensor is required since home return is not necessary.
- (3) Removal of workpieces is not necessary, even after an emergency stop.
- (4) The troublesome creation of home-return programs is not necessary even when stopping inside of a complex machine.

The advantages of battery-less.

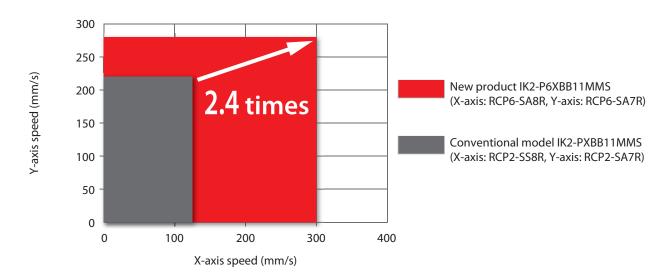
- (1) No battery maintenance required.
- (2) No installation space for battery required.



3 Higher Speed

Compatible with PowerCon which is equipped with a high-output driver. The maximum speed has been increased with the use of PowerCon.

This can reduce cycle time and help improve productivity.



2-axis combinations | 3-axis combinations | 4-axis combinations

Configuration Type Descriptions

Each configuration pattern is available with an extensive range of sizes from light load to heavy load and short stroke to long stroke. Select the optimal model for your application.

XYB (Y-axis base mount) type



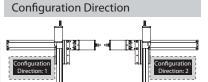
A basic configuration type in which the base of the Y-axis is fixed to the X-axis slider. It is operated by fixing equipment or a Z-axis on the Y-axis slider.

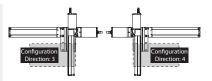
Point 1

Select from 4 patterns of Y-axis configuration directions. (See the figure at right)

A cable track can be selected for Y-axis wiring. Select the cable track size from a maximum of 4 different sizes. You can also select a cable track for wiring by

→ 2-axis combinations IK2-P6XB: p5~34





2-axis combinations IK2-P6YB:

YZB (Z-axis base mount) type

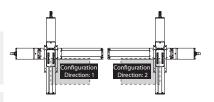


For this type, the base of the Z-axis (vertical axis) is fixed to the Y-axis slider with the Y-axis side-mounted. The Z-axis slider moves vertically, allowing mounting of jigs or chucks for transport, raising, or lowering of workpieces.

Select from 2 patterns of Z-axis configuration directions. (See the figure at right)

A cable track can be selected for Z-axis wiring. Select the cable track size from a maximum of 4 different sizes. You can also select a cable track for wiring by

Configuration Direction



XYB (Y-axis base mount) + Z-axis base mount type

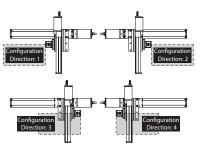
For this type, the base surface of the Z-axis is fixed to the Y-axis slider of XYB type (Y-axis base is fixed to X-axis slider).

The Z-axis body is fixed and the slider moves vertically.

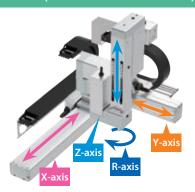
Cable tracks can be selected for Y-axis and Z-axis wiring. Select the cable track size from a maximum of 4 different sizes. You can also select a cable track for wiring by the user.

3-axis combinations IK3-P6BB:

Configuration Direction



XYB (Y-axis base mount) + ZR (vertical/rotation) unit type



X-axis

This is an XYB (Y-axis base mount) type Y-axis slider equipped with a ZR unit that enables both vertical and rotational operation.

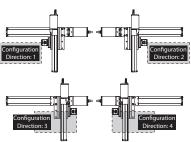
More compact with the integrated Z-axis and rotational axis.

Point 2

Cable tracks can be selected for Y-axis and Z-axis wiring. Select the cable track size from a maximum of 4 different sizes.

4-axis combinations IK4-P6BB:

Configuration direction



Cartesian RoboCylinder

RoboC	ylinder 2-axis	Combinations	Rol
	IK2-P6XBD1□□S	5	
IK2 Pulse Motor	IK2-P6XBD2□□S	7	
	IK2-P6XBD3□□S	9	
	IK2-P6XBC1□□S	11	
	IK2-P6XBC2□□S	13	
	IK2-P6XBC3□□S	15	
	IK2-P6XBB1□□S	17	
	IK2-P6XBB2□□S	19	
	IK2-P6XBB3□□S	21	IK
	IK2-P6XBF1□□S	23	Pulse N
	IK2-P6XBF2□□S	25	
	IK2-P6XBF3□□S	27	
	IK2-P6XBE1□□S	29	
	IK2-P6XBE2□□S	31	
	IK2-P6XBE3□□S	33	
	IK2-P6YBD1□□S	35	
	IK2-P6YBD2□□S	37	
	IK2-P6YBD3□□S	39	
	IK2-P6YBC1□□S	41	_
	IK2-P6YBC2□□S	43	Rol
	IK2-P6YBC3□□S	45	
	IK2-P6YBB1□□S	47	
	IK2-P6YBB2□□S	49	IK
	IK2-P6YBB3□□S	51	Pulse M
	IK2-P6YBI1□□S	53	
	IK2-P6YBI2□□S	55	
	IK2-P6YBI3□□S	57	_
	IK2-P6YBH1□□S	59	
	IK2-P6YBH2□□S	61	
	IK2-P6YBH3□□S	63	
	IK2-P6YBG1□□S	65	MSE
	IK2-P6YBG2□□S	67	PCO
	IK2-P6YBG3□□S	69	MCO

RoboCylinder 3-axis Combinations					
	IK3-P6BBC1□□	∃S 71			
	IK3-P6BBC2□□	S 73			
	IK3-P6BBC3□□	S 75			
	IK3-P6BBB1□□	S 77			
	IK3-P6BBB2□□	S 79			
	IK3-P6BBB3□□	S 81			
	IK3-P6BBF1□□	S 83			
	IK3-P6BBF2□□	S 85			
IK3	IK3-P6BBF3□□]S 87			
Pulse Motor	IK3-P6BBE1□□]S 89			
	IK3-P6BBE2□□]S 91			
	IK3-P6BBE3□□]S 93			
	IK3-P6BBH1□□	S 95			
	IK3-P6BBH2□□	S 97			
	IK3-P6BBH3□□	S 99			
	IK3-P6BBG1□□	S 101			
	IK3-P6BBG2□□	S 103			
	IK3-P6BBG3□□	∃S 105			
RoboCylinder 4-axis Combinations					
	IK4-P6BBB1□□]S 107			
	IK4-P6BBB2□□]S 109			
IK4	IK4-P6BBB3□□]S 111			
Pulse Motor	IK4-P6BBF1□□	S 113	5		
	IK4-P6BBF2□□]S 115			
	IK4-P6BBF3□□]S 117			
Ontions					
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Controller					
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MCON-C/LC