

## YAMAHA's improved 4-axis controller Debut

# RCX240

### ■ RCX141 and RCX142 united into one unit

- Even when FLIP-X and PHASER used together in addition to a Cartesian robot or SCARA robot, the absolute function of FLIP-X is usable.

### ■ Absolute data retained for 1 year

- As the power consumption of the absolute circuit is reduced compared with the conventional RCX142 model, the retention time of the absolute position data while the power is not applied is increased to as long as 1 year.
- At the same time, the battery is made smaller and lighter. Furthermore, the battery is changed from the nickel-cadmium type to rithium type for the environment friendly purpose.

### ■ Double power source system

- With the control power source and main power source separated, compliance to the higher ranked safety category is available.

### ■ Programming by a new programming box RPB

- The same tool can be used commonly with RCX221 / 222.
- As the 15 digits display is used for this unit while 8 digits for the conventional MPB, much larger amount of information can be displayed at one time, making it easier to use.

### ■ A new option board is added

- By adding iVY system board or iVY tracking board, it is now possible to construct the vision system easily.

### ■ The system constructed with RCX141/142 can be replaced as it is

- The robot cable, standard I/O and safety connector wiring are usable as they are.
- The program, point data, etc. can be used commonly.

### ■ Performance is enhanced

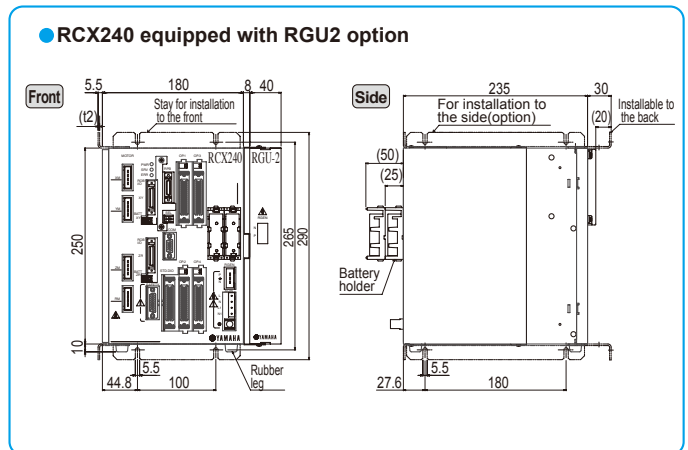
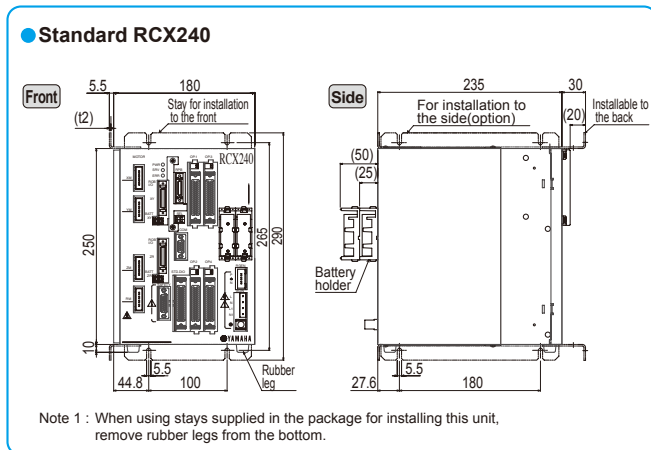
- CP (interpolation operation) speed and locus accuracy are improved
  - With the driver board changed, CP (interpolation) operation is much more improved. As a result, higher locus accuracy can be obtained in the dispenser application.
- Operation speed is increased
  - The operation time can be reduced substantially in the processes of avoiding the interfering object and conveyor tracking of the SCARA robot.



## Table of comparison between RCX141 / 142 and RCX240

	RCX141 / 142	RCX240	When changing loading from RCX141/142 to RCX240, and vice versa	Note
<b>Dimensions</b>	W180 x H250 x D235		Interchangeable	Usable as it is without any change
<b>Wiring and related items</b>	<b>Power cable</b>	Round terminal or Y terminal at the end of power cable	Bare wire as it is	Terminal attachment by pressure, cutting or cover peeling. One of these operations is required.
	<b>Power supply connection</b>	Control power and main power sources united	Control power source and main power source separated	Whether there is crossover or not Change of sequence (Not always)
	<b>Robot power cable</b>	Connection using a connector made by AMP		Interchangeable
	<b>Robot signal cable</b>	Connection using a connector made by 3M		Interchangeable
	<b>I/O option connector</b>	Connection using a connector made by HONDA		Interchangeable
	<b>Network modules</b>	Connection using a connector		Interchangeable
<b>Software and related items</b>	<b>SAFETY connector</b>	Connection using a connector made by OMRON		Interchangeable
	<b>Point data</b>	Common(Interchangeable)		Interchangeable
	<b>Program</b>	Common(Interchangeable)		Interchangeable
<b>Others</b>	<b>Parameter</b>	Common(Interchangeable on the upper level)		Interchangeable on the upper level
	<b>ABS battery</b>	Ni-Cd battery Up to 28days of retention time	Lithium battery 1 year of retention time No need of charging	Not interchangeable
	<b>Programming box</b>	MPB / MPB-E2	RPB / RPB-E	Not interchangeable

## Dimensions



● Specifications and appearance are subject to change without prior notice.

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