Ordering method

RCX240 / RCX240S – [Controller] – [Usable for CE] – [Regenerative unit] – [Option I/O] – [Network Option] – [iVY System Option board] – [Gripper] – [Battery]

Controller Note1	Usable for CE	Regenerative unit Note2	Option I/O	Network Option	iVY System Option board	Gripper	Battery
RCX240: Standard model	No entry: Standard	No entry: None	N, P: Standard I/O 16/8	No entry: None	No entry: None	No entry: None	No entry: None Note6
RCX240S: Low capacity model	E: CE marking	R: RGU-2	N1, P1: 40/24 points	CC: CC-Link	VY: iVY (Vision)	GR: Gripper	B: 2pcs Note7
		R3: RGU-3 Note3	N2, P2: 64/40 points	DN: DeviceNet	TR: iVY+Light+Tracking		BB: 4pcs Note8
			N3, P3: 88/56 points	PB: Profibus	LC: iVY+Light		
			N4, P4: 112/72 points	EN: Ethernet			
				EP: EtherNet/IP			
				YC: YC-Link Note5			

Note 1. The RCX240S controller is limited to use with robots that handles 200W or lower on each axis. Check the following controller selection table to find the matching model.
Note 2. The regenerative unit (option) is required when operating a model designated by YAMAHA or a load with a large inertia. Please refer to the following regenerative unit selection table.
Note 3. YK550X / YK500XG to YK1000XG are for RGU-3.
Note 4. Use N to N4 when NPN is selected on the I/O board, and P to P4 when PNP is selected.
Note 5. Available only for the master.
Note 6. Uses no-battery specifications if connecting to all axis - linear motor.
Note 7. If any or Single-axis among the XY axes are absolute specifications then 2 batteries are required.
Note 8. If any or Single-axis among the ZR axes are absolute specifications then 2 batteries are required.

Controller model selection table

The RCX240S controller is limited to use with robots that handles 200W or lower on each axis and is partly modified such as for optimizing the IPM, but it is fully compatible with RCX240 operation and functions, and peripheral equipment can be used by both models.

	XY-X								
	PXYX	FXYX	FXYBX	SXYX	SXYBX	NXY	MXYX	HXYX	HXYLX
RCX240						●	●	●	●
RCX240S	●	●	●	●	●				

	YK-XG																																				
	YK500TW	YK120XG	YK150XG	YK180X/XG	YK220X	YK250XG	YK350XG	YK400XG	YK500XGL	YK500XG	YK600XGL	YK600XG	YK700XG	YK800XG	YK900XG	YK1000XG	YK1200X	YK300XGS	YK400XGS	YK500XGS	YK600XGS	YK700XGS	YK800XGS	YK900XGS	YK1000XGS	YK250XGP	YK350XGP	YK400XGP	YK500XGLP	YK500XGP	YK600XGLP	YK600XGP	YK600XGHP	YK700XGP	YK800XGP	YK900XGP	YK1000XGP
RCX240	●									●		●	●	●	●	●	●			●	●	●	●	●	●					●		●	●	●	●	●	●
RCX240S		●	●	●	●	●	●	●	●		●							●	●							●	●	●	●		●						

	CLEAN											
	YK180XGC	YK220XC	YK250XGC	YK350XGC	YK400XGC	YK500XGLC	YK500XC	YK600XGLC	YK600XC	YK700XC	YK800XC	YK1000XC
RCX240							●		●	●	●	●
RCX240S	●	●	●	●	●	●		●				

Multi-robot: Driver list for each model

For "multi-robots" that are used in combination with one or more single-axis robots, the RCX240S can be used unless the divers for the combined models include a 20A model.

		FLIP-X																		PHASER					
		T4LH	T5LH	T6L	T9	T9H	F8/F8L/F8LH	F10	F14	F14H	F17/F17L	F20/F20N	N15	N18	B10	B14/B14H	R5	R10	R20	MR12	MF7	MF15	MF20	MF30	MF75
Driver	05A	●	●	●	●		●	●	●						●	●	●	●		●					
	10A					●				●									●		●	●	●		
	20A										●	●	●	●										●	●

Regenerative unit selection table

	XY-X					
	FXYx 3 axes	SXYx 3,4 axes	NXY 3,4 axes	NXY 6 axes	MXYx 3,4 axes	HXYx 3,4 axes
No entry (None)	●	○				
R (RGU-2)		○	●	●	●	●
R3						

	YK-XG																																					
	YK120XG	YK150XG	YK180XG	YK180X	YK220X	YK250XG	YK350XG	YK400XG	YK500XGL	YK500XG	YK600XGL	YK600XG	YK600XGH	YK700XG	YK800XG	YK900XG	YK1000XG	YK1200X	YK300XGS	YK400XGS	YK500XGS	YK600XGS	YK700XGS	YK800XGS	YK900XGS	YK1000XGS	YK250XGP	YK350XGP	YK400XGP	YK500XGLP	YK500XGP	YK600XGLP	YK600XGP	YK600XGHP	YK700XGP	YK800XGP	YK900XGP	YK1000XGP
No entry (None)	●	●	●	●	●	●	●	●	●		●								●	●							●	●	●	●		●						
R (RGU-2)																		●																				
R3										●		●	●	●	●	●	●				●	●	●	●	●	●					●		●	●	●	●	●	●

	Clean											
	SXYxC 3 axes	SXYxC 4 axes	YK180XC	YK220XC	YK250XCH	YK350XCH	YK400XCH	YK500XC	YK600XC	YK700XC	YK800XC	YK1000XC
No entry (None)	●	●	●	●	●	●	●					
R (RGU-2)								●	●	●	●	●
R3												

● : Required ○ : If Z axis is 200W specifications then regenerative unit RGU-2 is required.

Conditions where regenerative unit is needed on multi robots

- Where motor capacity exceeds a total of 450W.
- Where motor capacity for perpendicular axis exceeds a total of 240W.
- Where maximum speed exceeds 1250mm/sec. and uses belt drive.
- Where the following conditions apply when perpendicular axis capacity is 240W or less.
  - perpendicular axis is 200W.
  - perpendicular axis is 100W and stroke is 700mm or more
  - Where there are 2 perpendicular axes at 100W, and includes leads of 5mm