YP-X SPECIFICATION SHEET

Type	Model	Maximum payload (kg)	Cycle time (sec) Note 1	Structure		Moving range	Detailed info page
2-axes	YP220BX	3	0.45	X-axis	Belt	200mm	P.304
				Z-axis	Belt	100mm	
	YP320X	3	0.57	X-axis	Ball screw	330mm	P.305
				Z-axis	Belt	100mm	
3-axes	YP220BXR	1	0.62	X-axis	Belt	200mm	P.306
				Z-axis	Belt	100mm	
				R-axis	Rotation axis	+/-180°	
	YP320XR	1	0.67	X-axis	Ball screw	330mm	P.307
				Z-axis	Belt	100mm	
				R-axis	Rotation axis	+/-180°	
	YP330X	3	0.57	X-axis	Ball screw	330mm	P.308
				Y-axis	Ball screw	150mm	
				Z-axis	Belt	100mm	
4-axes	YP340X	1	0.67	X-axis	Ball screw	330mm	P.309
				Y-axis	Ball screw	150mm	
				Z-axis	Belt	100mm	
				R-axis	Rotation axis	+/-180°	

Note 1. Cycle time is the time required for moving back and forth 150mm (arch 50) and vertically 50mm (during rough positioning motion with 1kg load).

Robot ordering method description

In the order format for the YAMAHA pick & place robots YP-X series, the notation (letters/numbers) for the mechanical section is shown linked to the controller section notation.

[Example]

■ 2-axis specifications

● **Mechanical ▶ YP220BX**
- Robot cable length ▷ 3.5m

● **Controller ▶ RCX222**
- Usable for CE ▷ Not required
- Input/Output selection 1 ▷ NPN
- Input/Output selection 2 ▷ None

● **Ordering method**

YP220BX-3L-RCX222-N

Mechanical section — Controller section

①Model	②Cable length	③Controller Note 1	④Usable for CE	⑤Input/Output selection 1	⑥Input/Output selection 2
		RCX222			
YP220BX	3L: 3.5m (Standard)		No entry: Standard	N: NPN Note 2	No entry: None
YP320X	5L: 5m		E: CE marking	P: PNP	N1: OP.DIO 24/16 (NPN) Note 2
	10L: 10m			CC: CC-Link	P1: OP.DIO 24/17 (PNP)
				DN: DeviceNet	EN: Ethernet Note 3 Note 4
				PB: Profibus	
				EN: Ethernet None 2	
				YC: YC-Link Note 3	

Note 1. DRCX is also selectable.
Note 2. With the CE marking, it is not possible to select NPN or Ethernet.
Note 3. Available only for the master.
Note 4. Only when CC-Link or DeviceNet or Profibus was selected for I/O select 1 above.
Ethenet can be selected in I/O select 2.

■ 3 / 4 axis specifications

● **Mechanical ▶ YP340X**
- Robot cable length ▷ 5m

● **Controller ▶ RCX240**
- Usable for CE ▷ Not required
- Expansion I/O ▷ NPN Standard I/O 16/8
- Network option ▷ CC-Link
- Battery ▷ 4 pcs

● **Ordering method**

YP340X-5L-RCX240-N-CC-BB

Mechanical section — Controller section

①Model	②Cable length	③Controller	④Usable for CE	⑦Expansion I/O Note 1	⑧Network option	⑨Battery
		RCX240				BB
YP220BXR	3L: 3.5m (Standard)		No entry: Standard	N: Standard I/O 16/8 (NPN)	No entry: None	
YP320XR	5L: 5m		E: CE marking	N1: 40/24 (NPN)	CC: CC-Link	
YP330X	10L: 10m			N2: 64/40 (NPN)	DN: DeviceNet	
YP340X				N3: 88/55 (NPN)	PB: Profibus	
				N4: 112/72 (NPN)	EN: Ethernet	
				P: Standard I/O 16/8 (PNP)	YC: YC-Link Note1	
				P1: 40/24 (PNP)		
				P2: 64/40 (PNP)		
				P3: 88/55 (PNP)		
				P4: 112/72 (PNP)		

Note 1. Available only for the master.

To find detailed controller information see the controller page. DRCX ▶ P.387, RCX222 ▶ P.395, RCX240 ▶ P.402

Robot ordering method terminology

① **Model**	Enter the robot unit model.
② **Cable length**	Select the length of the robot cable connecting the robot and controller. 3L : 3.5m (Standard) 5L : 5m 10L : 10m
③ **Controller**	2-axis specifications: Select either RCX222 or DRCX. 3 / 4 axis specifications: RCX240.
④ **Usable for CE**	CE marking is selectable.
⑤ **Input/Output selection 1**	This is an RCX222 controller option. It allows selecting an expansion I/O board and network board adding to the standard I/O board.
⑥ **Input/Output selection 2**	
⑦ **Expansion I/O**	This is an RCX240 controller option. It allows selecting an expansion I/O board adding to the standard I/O board.
⑧ **Network option**	This is an RCX240 controller option. It allows selecting a network board adding to the standard I/O board.
⑨ **Battery**	Absolute data backup battery (not required if using incremental specifications).