

Robot ordering method description

In the order format for the YAMAHA single-axis robots FLIP-X series, the notation (letters/numbers) for the mechanical section is shown linked to the controller section notation.

[Example]

● Mechanical ▶ F8

- Lead ▷ 20mm
- Brake ▷ Yes
- Origin position ▷ Non-motor side
- Grease ▷ Standard
- Stroke ▷ 500mm
- Cable length ▷ 3.5m

● Controller ▶ SR1-X

- Usable for CE ▷ Not required
- Regenerative unit ▷ Not required
- I/O selection ▷ NPN
- Battery ▷ With battery

● Ordering method

F8-20-BK-Z-500-3L-SR1-X-05-N-B

Mechanical section

Controller section

This page describes using the ordering form for mechanical components.

To find detailed controller information see the controller page.

SR1-X▶ [P377](#), TS-X▶ [P354](#), RDX▶ [P365](#)

Mechanical section

● T type / F type (F8 / F8L / F8LH)

① Model		② Lead designation		③ Brake		⑨ Option			⑩ Stroke		⑪ Cable length		
T4H	F8	30	30mm	No entry	No brakes	Origin position change	None	Standard	Grease type	None	Standard	3L	3.5m
T5H	F8L	20	20mm	BK	Brakes provided	Z	Non-motor side	GC	Clean			5L	5m
T6	F8LH	12	12mm									10L	10m
T9		10	10mm										
T9H		6	6mm										
T4		5	5mm										
T5		2	2mm										

● F type (Except F8 / F8L / F8LH)

① Model		② Lead designation		③ Brake		⑤ Cable entry location		⑨ Option			⑩ Stroke		⑪ Cable length		
F10	F20	50	50mm	No entry	No brakes	No entry	Standard (S)	Origin position change	None	Standard	Grease type	None	Standard	3L	3.5m
F14	F20N	40	40mm	BK	Brakes provided	U	From the top	Z	Non-motor side	GC	Clean			5L	5m
F14H		30	30mm			R	From the right							10L	10m
F17		20	20mm			L	From the left								
F17L		10	10mm												
		5	5mm												

● N type (Single carriage)

① Model		② Lead designation		⑥ Cable carrier entry location		⑦ Cable carrier specification		⑨ Option			⑩ Stroke		⑪ Cable length		
N15		20	20mm	RH	Horizontal, right	S	Standard cable carrier	Origin position change	None	Standard	Grease type	None	Standard	3L	3.5m
N18				LH	Horizontal, left	M	Optional cable carrier	Z	Non-motor side	GC	Clean			5L	5m
				RW	Wall, right									10L	10m
				LW	Wall, left										

● N type (Double carriage)

① Model		② Lead designation		④ Take out direction		⑦ Cable carrier specification		⑨ Option			⑩ Stroke		⑪ Cable length	
N15D		20	20mm	H	Horizontal installation	S	Standard cable carrier	Grease type	None	Standard	GC	Clean	3L	3.5m
N18D				W	Wall hanging installation	M	Optional cable carrier						5L	5m
													10L	10m

● B type

① Model		⑧ Motor installation direction		⑨ Option			⑩ Stroke		⑪ Cable length	
B10		L	Motor leftward, horizontal position	Grease type	None	Standard	3L	3.5m		
B14		R	Motor rightward, horizontal position	GC	Clean		5L	5m		
B14H		LU	Motor leftward, upper position				10L	10m		
		RU	Motor rightward, upper position							
		LD	Motor leftward, lower position							
		RD	Motor rightward, lower position							

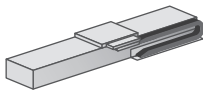
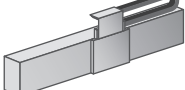
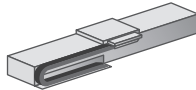
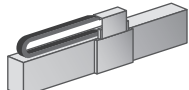
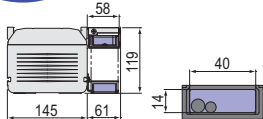

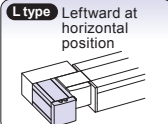
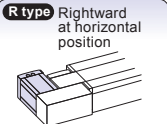
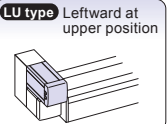
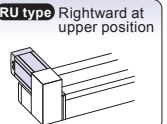
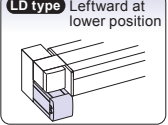
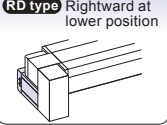
● YMS type

① Model		② Lead designation		③ Brake		⑩ Stroke		⑪ Cable length	
YMS45		12	12mm	No entry	No brakes			3L	3.5m
YMS55		6	6mm	BK	Brakes provided			5L	5m
								10L	10m

● R type

① Model		⑤ Cable entry location		⑪ Cable length	
R5		No entry	Standard (S)	3L	3.5m
R10		B	From the side	5L	5m
R20				10L	10m

Robot ordering method terminology

① Model	Enter the robot unit model.
② Lead designation	Select the ball screw lead.
③ Brake	Select Brake or No-brake. Horizontal specs: No-brake Vertical specs: with Brake
④ Take out direction	Select what direction to install the robot (horizontal / wall mounted).
⑤ Cable entry location	Select what direction to extract the robot cable connecting the robot and controller.
⑥ Cable carrier entry location	<p>Select what direction to install the robot (horizontal / wall mounted) and what direction to extract the robot cable carrier.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>RH Horizontal, right</p>  </div> <div style="text-align: center;"> <p>RW Wall, right</p>  </div> <div style="text-align: center;"> <p>LH Horizontal, left</p>  </div> <div style="text-align: center;"> <p>LW Wall, left</p>  </div> </div> <p>Note. Be sure to install in the direction as specified (in cable carrier take-out direction drawing and various specification drawings) individually. Installation in any other way will cause a failure. For requirement of installation in any way other than the above standard installation, please consult YAMAHA as special arrangement will be available.</p>
⑦ Cable carrier specification	<p>Select the cable carrier size for the customer wiring.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>S type Standard cable carrier</p>  <p>145 61 58 119 40 14</p> </div> <div style="text-align: center;"> <p>M type Optional cable carrier</p>  <p>145 86 168 73 57 35 25</p> <p>Space for optional cable for users</p> </div> </div> <p>Note. Cannot pass more than 3 urethane hoses (φ6 x 4).</p>
⑧ Motor installation direction	<p>Select what direction to install the motor.</p> <div style="display: grid; grid-template-columns: repeat(2, 1fr); gap: 10px;"> <div style="text-align: center;"> <p>L type Leftward at horizontal position</p>  </div> <div style="text-align: center;"> <p>R type Rightward at horizontal position</p>  </div> <div style="text-align: center;"> <p>LU type Leftward at upper position</p>  </div> <div style="text-align: center;"> <p>RU type Rightward at upper position</p>  </div> <div style="text-align: center;"> <p>LD type Leftward at lower position</p>  </div> <div style="text-align: center;"> <p>RD type Rightward at lower position</p>  </div> </div>
⑨ Option	Origin position change: Origin point position can be changed.
	Grease type: Clean grease can be selected.
⑩ Stroke	Select the stroke for the robot movement range.
⑪ Cable length	<p>Select the robot cable length to use for connecting the robot to the controller.</p> <p>3L : 3.5m (standard) 5L : 5m 10L : 10m 3K : 3.5m (Bend-resistant cable) 5K : 5m (Bend-resistant cable) 10K : 10m (Bend-resistant cable)</p>

APPLICATION
 TRANSSERVO
 Compact single-axis robots
 FLIP-X
 Single-axis robots
 PHASER
 Linear motor single-axis robots
 XY-X
 Cartesian robots
 YK-XG
 SCARA robots
 YP-X
 Pick & place robots
 CLEAN
 CONTROLLER INFORMATION
 T type
 F type
 N type
 B/MMS/R type