

Robot ordering method description

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

[Example]

● Mechanical ▶ MR16

- Cable carrier take out direction ▷ RH
- Grease ▷ Standard
- Optional cable carrier for users ▷ S
- Stroke ▷ 550mm
- Origin position ▷ Change (R side)
- Cable length ▷ 3.5m

● Controller ▶ SR1-P

- Regenerative unit ▷ Not required
- I/O selection ▷ NPN

● Ordering method

MR16-RH-S-Z-550-3L-SR1-P-05-N

Mechanical section

Controller section

This page describes using the ordering form for mechanical components.

To find detailed controller information see the controller page.

SR1-P ▶ [P.377](#), TS-P ▶ [P.354](#), RDP ▶ [P.366](#)

Mechanical section

● MR type (Single carriage)

① Model		② Cable carrier entry location		④ Optional cable carrier for users		⑤ Option			⑥ Stroke		⑦ Cable length		
MR12	MR12A	RH	Horizontal, right	No entry	None	Orig n position change	None	Standard	Grease type	None	Standard	3L	3.5m
MR16	MR16A	LH	Horizontal, left	S	S type	Z	R side		GC	Clean			
MR16H	MR16HA	RW	Wall mounted, right	M	M type						5L	5m	
MR20	MR20A	LW	Wall mounted, left								10L	10m	
MR25	MR25A												

● MR type (Double carriage)

① Model		③ Installing direction		④ Optional cable carrier for users		⑤ Option			⑥ Stroke		⑦ Cable length		
MR12D	MR12AD	H	Horizontal installation	No entry	None	Grease type	None	Standard			3L	3.5m	
MR16D	MR16AD	W	Wall mounted installation	S	S type	GC	Clean					5L	5m
MR16HD	MR16HAD			M	M type							10L	10m
MR20D	MR20AD												
MR25D	MR25AD												

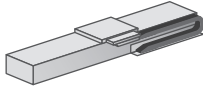
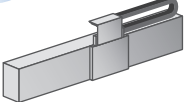
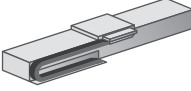
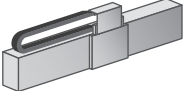
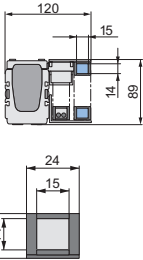
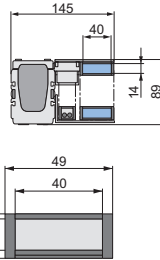
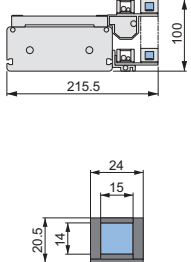
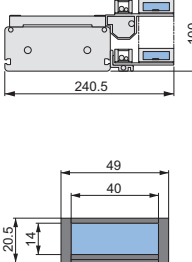
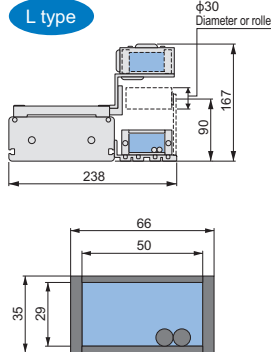
● MF type (Single carriage)

① Model		② Cable carrier entry location		④ Optional cable carrier for users		⑤ Option			⑥ Stroke		⑦ Cable length		
MF15	MF15A	RH	Horizontal, right	No entry	None	Orig n position change	None	Standard	Grease type	None	Standard	3L	3.5m
MF20	MF20A	LH	Horizontal, left	S	S type	Z	R side		GC	Clean			
MF30	MF30A	RW	Wall mounted, right	M	M type						5L	5m	
MF50	MF50A	LW	Wall mounted, left	L	L type						10L	10m	
MF100													

● MF type (Double carriage)

① Model		③ Installing direction		④ Optional cable carrier for users		⑤ Option			⑥ Stroke		⑦ Cable length		
MF15D	MF15AD	H	Horizontal installation	No entry	None	Grease type	None	Standard			3L	3.5m	
MF20D	MF20AD	W	Wall mounted installation	S	S type	GC	Clean					5L	5m
MF30D	MF30AD			M	M type							10L	10m
MF50D	MF50AD			L	L type								
MF100D													

Robot ordering method terminology

<p>① Model</p>	<p>Enter the robot unit model. Select from 2 types: incremental specifications and semi-absolute specifications. (MF100 / MF100D only support incremental specifications).</p>
<p>② Cable carrier entry location</p>	<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 hanging, right</p>  </div> <div style="text-align: center;"> <p>LH Horizontal, left</p>  </div> <div style="text-align: center;"> <p>LW Wall hanging, 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>
<p>③ Installing direction</p>	<p>Select what direction to install the robot (horizontal / wall mounted).</p>
<p>④ Optional cable carrier for users</p>	<p>Please specify if a cable carrier is needed for customer wiring.</p> <p>[MR type]</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>S type</p>  </div> <div style="text-align: center;"> <p>M type</p>  </div> </div> <p style="text-align: center;">■ Space for optional cable for users</p> <p>Note. The cable and air hoses should take up less than 30% of the space when storing them inside the cable carrier. Lay out the cables and air hoses in rows inside the cable carrier so they do not cross each other.</p> <p>[MF type]</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>S type</p>  </div> <div style="text-align: center;"> <p>M type</p>  </div> <div style="text-align: center;"> <p>L type</p>  </div> </div> <p style="text-align: center;">■ Space for optional cable for users</p> <p>Cable and pipe guide S : $\phi 8$ flexible cable x 1, $\phi 4$ air tube x 1 M : $\phi 8$ flexible cable x 2, $\phi 6$ air tube x 2 L : $\phi 8$ flexible cable x 2, $\phi 8$ air tube x 3</p>
<p>⑤ Option</p>	<p>Origin position change: Origin point position can be changed. (Changeable only with MR type) Grease type: Clean grease can be selected.</p>
<p>⑥ Stroke</p>	<p>Select the stroke for the robot operating range.</p>
<p>⑦ Cable length</p>	<p>Select the length of the robot cable connecting the robot to the controller. 3L : 3.5m (Standard) 5L : 5m 10L : 10m</p>

APPLICATION
 TRANSERVO
 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
 MR type
 MF type