## Ordering method

### Single carriage model

<table>
<thead>
<tr>
<th>Model</th>
<th>MF30</th>
<th>MF30D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driving method</td>
<td>Stepped linear motor with 8mm magnet</td>
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</tr>
<tr>
<td>Repeatability (μm)</td>
<td>±5</td>
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</tr>
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<td>Scale (μm)</td>
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<tr>
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</tr>
<tr>
<td>Rated thrust (N)</td>
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</tr>
<tr>
<td>Maximum payload (kg)</td>
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</tr>
<tr>
<td>Stroke (mm)</td>
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<tr>
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</tr>
<tr>
<td>Total length (mm)</td>
<td>Stroke+310</td>
<td>Stroke+560</td>
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### Specifications

**Note:** A vertical model (with brake) is not available with the PHASER series.

- **Model:** MF30, MF30D
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### Allowable overhang

**Horizontal installation:**
- 10kg: 3364 mm
- 20kg: 2298 mm
- 30kg: 2060 mm
- 40kg: 1570 mm
- 50kg: 1295 mm
- 60kg: 1070 mm

**Wall installation:**
- 10kg: 1320 mm
- 20kg: 650 mm
- 30kg: 430 mm
- 40kg: 209 mm
- 50kg: 145 mm
- 60kg: 105 mm

**Note:** Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

### Static loading moment

**Horizontal installation:**
- 10kg: 413 N·m
- 20kg: 200 N·m
- 30kg: 133 N·m
- 40kg: 56 N·m
- 50kg: 25 N·m
- 60kg: 10 N·m

**Wall installation:**
- 10kg: 106 N·m
- 20kg: 50 N·m
- 30kg: 30 N·m
- 40kg: 10 N·m
- 50kg: 5 N·m
- 60kg: 2 N·m

### Controller

**Controller:** SR1-P to RDV-P

**Operating method:**
- Programming / I/O point trace / Communication
- Remote command / Operation using RS-232C
- Remote command
- Pulse train control

### Cable carrier entry location

**RH:** Horizontal, right
**LH:** Horizontal, left
**RW:** Wall mounted, right
**LW:** Wall mounted, left

**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 other way than the above standard installation, please consult YAMAHA as special arrangement will be available.

### Optional cable carrier for users

**S type**
- Flexible cable x 1
- 44 air tube x 1

**M type**
- Flexible cable x 1
- 44 air tube x 2

**L type**
- Flexible cable x 2
- 44 air tube x 3

**Space for optional cable for users**

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**MF30/MF30D**

### MF30 single carriage horizontal mount model

**RH**

- **Effective stroke**

- **Weight (kg)**
  - Weight: 7.2

**Note:**
- Stop positions are determined by the mechanical stoppers at both ends.
- The origin is set on the L side at the time of shipment. It can be changed to the R side by parameter setting.
- For models with a 2,100mm or longer stroke, optional L type cable carriers can only be used.

### MF30 single carriage wall mount model

**RW**

- **Effective stroke**

- **Weight (kg)**
  - Weight: 7.2

**Note:**
- Stop positions are determined by the mechanical stoppers at both ends.
- The origin is set on the R side at the time of shipment. It can be changed to the L side by parameter setting.
- For models with a 2,100mm or longer stroke and an optional L type cable carrier, a roller is installed to prevent the cable carrier from sagging.

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**Controller**

- SR1-P: 516
- RCX221: 524
- TS-P: 490
- RDV-P: 504