

MR16TH

Ordering method

Single carriage model

MR16TH - RH - S - 1500 - 3L - SRCP - 10A - E - CC - CN1

Model	Cable carrier take out direction	Optional cable carrier for users	Stroke	Cable length	Controller	Driver	Usable for CE	Network	I/O connector specification
	- RH : Horizontal, right - LH : Horizontal, left - RW : Wall hanging, right - LW : Wall hanging, left	- No entry: None - S : Small size - M : Large size	- 100 to 1500 (100mm pitch)	- 3L: 3.5m (Standard) - 5L: 5m - 10L: 10m	- SRCP - RDP (see page 22)		- No entry: Standard - E: CE specification	- No entry: None - CC: CC-Link - DN: DeviceNet - PB: Profibus - EN: Ethernet	- CN1: I/O flat cable 1m (Standard) - CN2: Twisted-pair cable 2m

Double carriage model

MR16THD - H - S - 1300 - 3L - SRCP - 10A - E - CC - CN1

Model	Installation method	Optional cable carrier for users	Stroke	Cable length	Controller	Driver	Usable for CE	Network	I/O connector specification
	- H : Horizontal installation - W : Wall hanging installation	- No entry: None - S : Small size - M : Large size	- 100 to 1300 (100mm pitch)	- 3L: 3.5m (Standard) - 5L: 5m - 10L: 10m	- SRCP - RCX141 - RDP (see page 22)		- No entry: Standard - E: CE specification	- No entry: None - CC: CC-Link - DN: DeviceNet - PB: Profibus - EN: Ethernet	- CN1: I/O flat cable 1m (Standard) - CN2: Twisted-pair cable 2m

Note : 2 units are required when using SRCP or RDP based on the double carrier specifications.

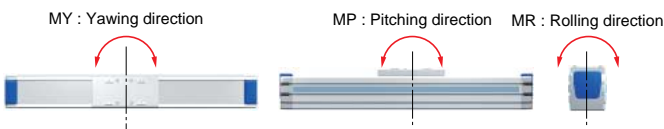
Basic specification

Model	MR16TH
Repeated positioning accuracy	+/-5 μ m or less
Maximum dimensions of cross section of main unit	W80 x H100mm (except the cable carrier section)
Shaft bearing method	With 1 thin, wide guide attached to frame(with self-lubricating seal)
Driving method/shaft diameter	Shaft motor / ϕ 16
Scale	Magnetic type: resolution of 1 μ m
Rated thrusting force	29N
Maximum carrying weight	7kg
Maximum speed	2500mm/sec (Note 1)
Maximum stroke	1500mm
Operating temperature	10°C to 40°C
Controller	SRCP-10A
Robot driver	RDP-10-RBR1

Note 1 : Depending on the operation conditions, it may not be possible to use the unit at the maximum speed.

Static load moment

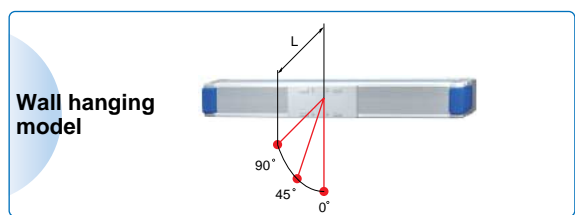
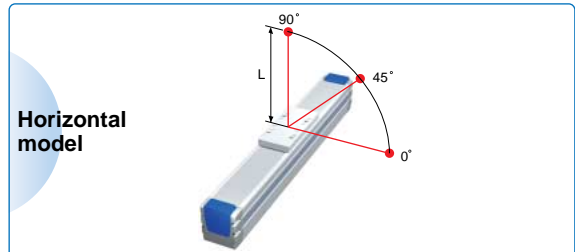
Allowable static load moment (N · m)	MY : 271	MP : 271	MR : 59
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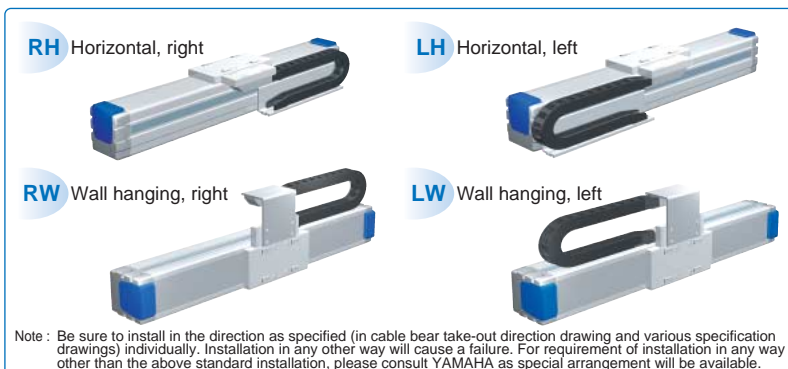
Allowable overhang (Note 2)

Horizontal model (mm)	Load	Angle	0°	45°	90°
	3kg		228	320	445
Wall hanging model (mm)	5kg		135	191	270
	7kg		95	134	190
	3kg		540	199	141
	5kg		340	—	—
	7kg		240	—	—

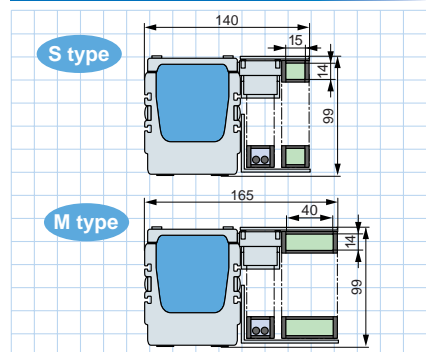
Note 2 : Distance from the center of the top face of the carriage to the gravity center of the item being carried.



Cable carrier take out direction



Optional cable carrier for users



Optional cable for users

