

MR16T

Ordering method

Single carriage model

MR16T - RH - S - 1550 - 3L - SRCP - 05A - 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	50 to 1550 (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

MR16TD - H - S - 1450 - 3L - SRCP - 05A - 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	50 to 1450 (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.

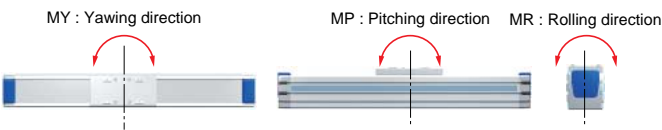
Basic specification

Model	MR16T
Repeated positioning accuracy	+/-5 μm 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 / φ16
Scale	Magnetic type: resolution of 1 μm
Rated thrusting force	21N
Maximum carrying weight	5kg
Maximum speed	2500mm/sec (Note 1)
Maximum stroke	1550mm
Operating temperature	10°C to 40°C
Controller	SRCP-05A
Robot driver	RDP-05-RBR1

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

Static load moment

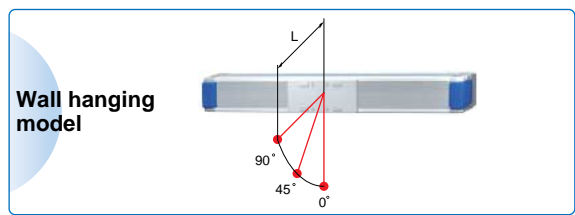
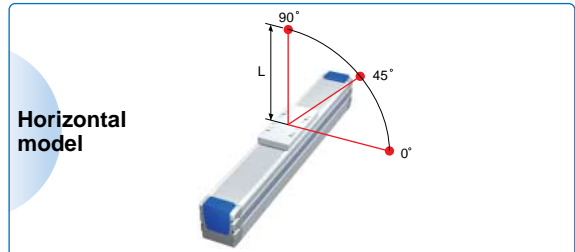
Allowable static load moment (N · m)	MY : 181	MP : 181	MR : 59
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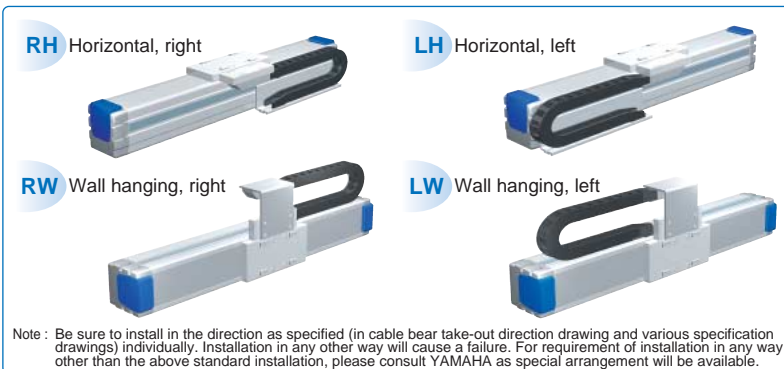
Allowable overhang (Note 2)

Horizontal model (mm)	Load	Angle	0°	45°	90°
	1kg	688	956	1380	
3kg	229	322	460		
5kg	136	191	270		
Wall hanging model (mm)	1kg	1230	803	586	
	3kg	600	206	146	
	5kg	540	—	—	

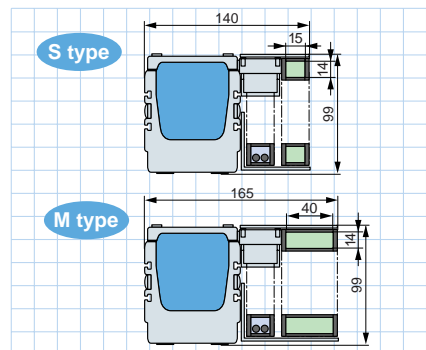
Note 2 : Distance from the center of the top face of the carriage to the gravity center of the item being carried.



Cable carrier take out direction

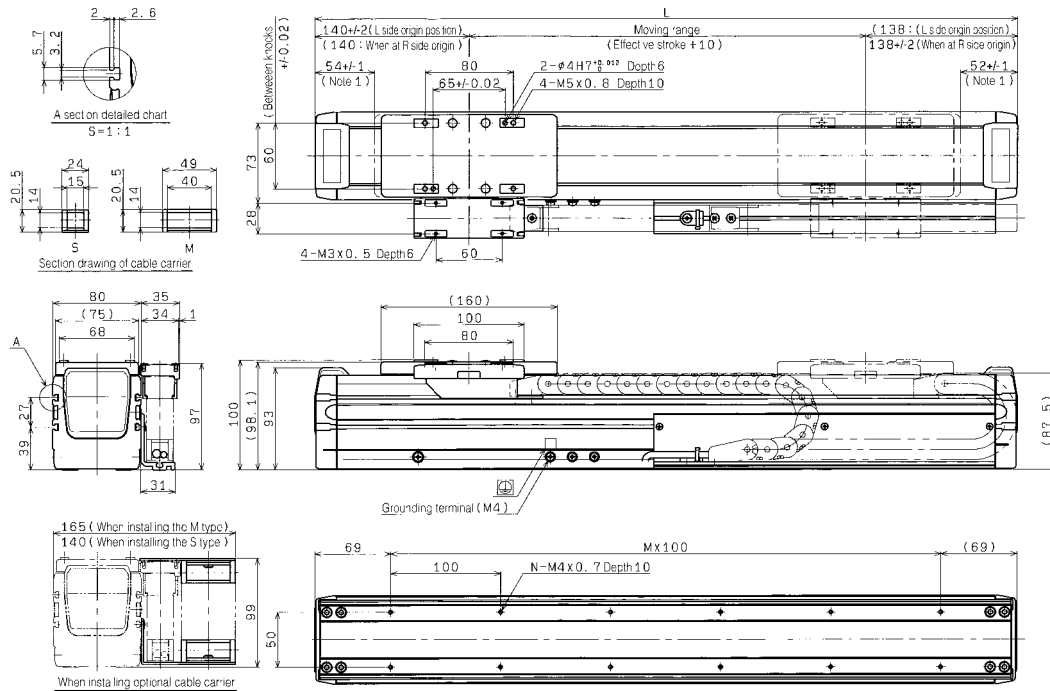


Optional cable carrier for users



Optional cable for users

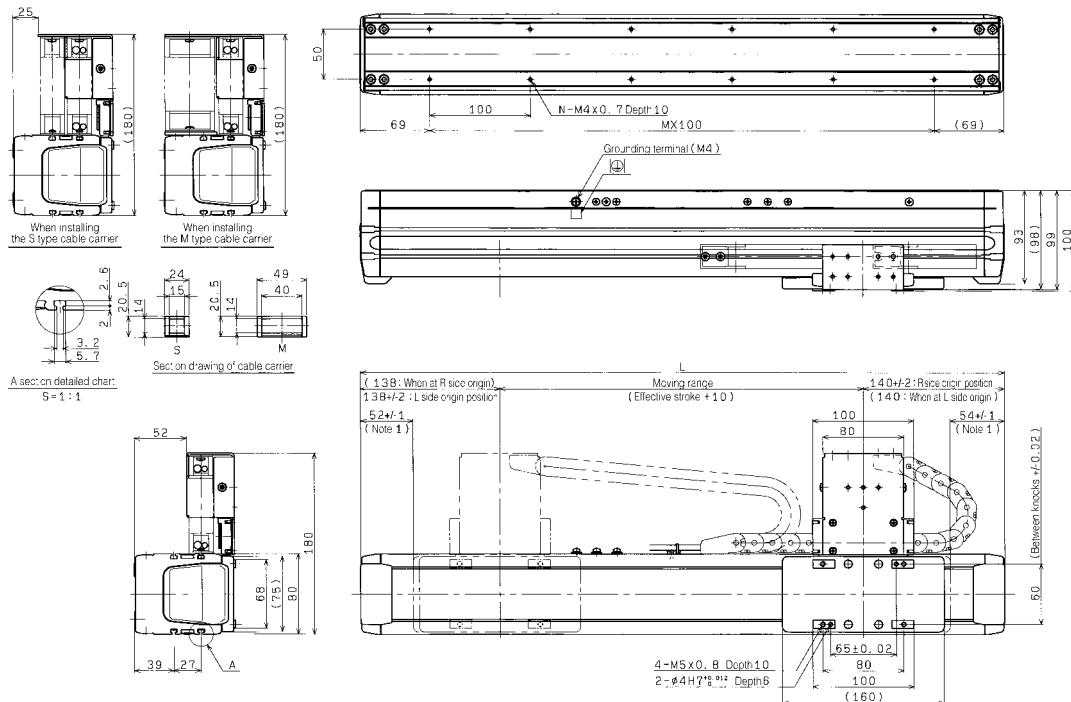
MR16T single carriage horizontal model RH



Effective stroke	50	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550
L	338	438	538	638	738	838	938	1038	1138	1238	1338	1438	1538	1638	1738	1838
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Weight (kg)	5.8	6.7	7.6	8.6	9.5	10.4	11.4	12.3	13.2	14.2	15.1	16.0	16.9	17.9	18.8	19.8

Note 1 : Distance from both ends to the mechanical stopper.
 Note : The origin is set on the left side at the time of shipment. It can be reset on the right side by means of the parameter setting.

MR16T single carriage wall hanging model RW

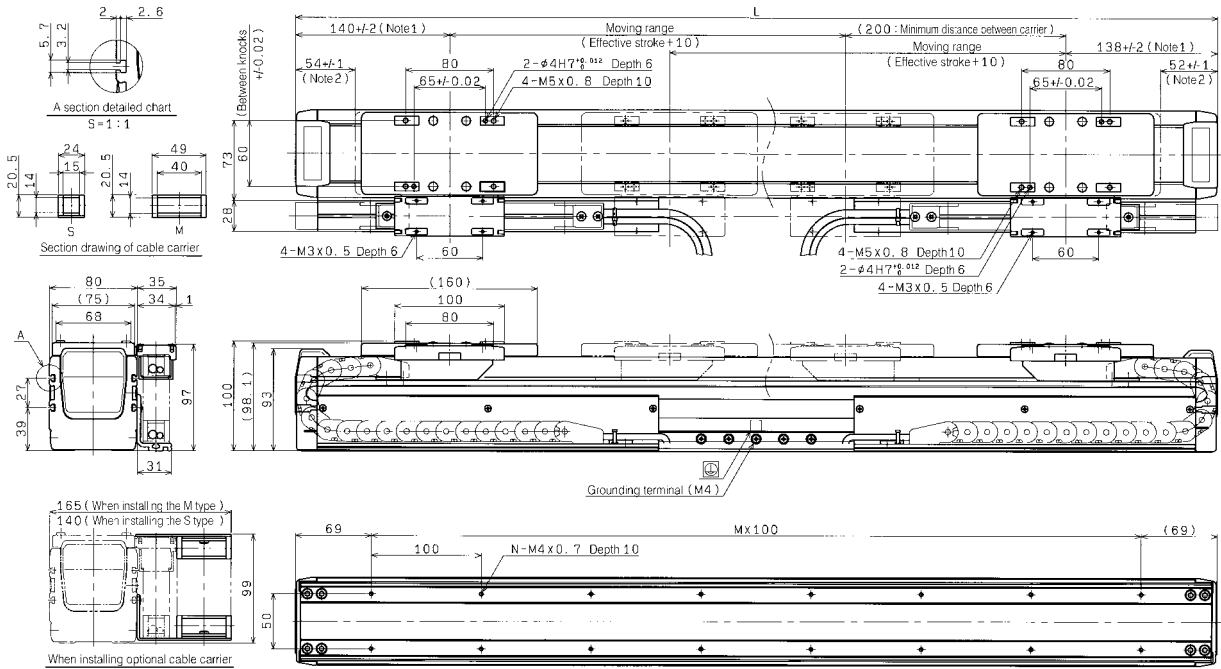


Effective stroke	50	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550
L	338	438	538	638	738	838	938	1038	1138	1238	1338	1438	1538	1638	1738	1838
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Weight (kg)	5.8	6.7	7.6	8.6	9.5	10.4	11.4	12.3	13.2	14.2	15.1	16.0	16.9	17.9	18.8	19.8

Note 1 : Distance from both ends to the mechanical stopper.
 Note : The origin is set on the right side at the time of shipment. It can be reset on the left side by means of the parameter setting.

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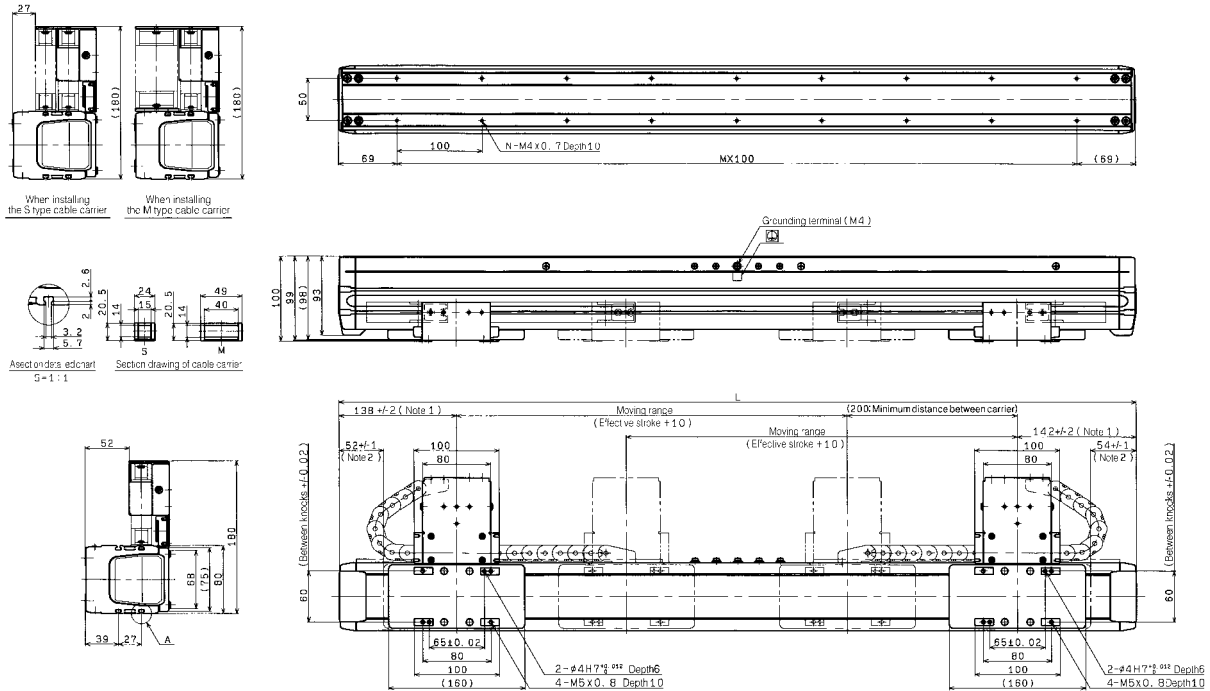
MR16TD double carriage horizontal model H



Effective stroke	50	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450
L	538	638	738	838	938	1038	1138	1238	1338	1438	1538	1638	1738	1838	1938
M	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
N	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Weight (kg)	8.7	9.7	10.6	11.5	12.5	13.4	14.3	15.3	16.2	17.1	18.0	19.0	19.9	20.9	21.8

Note 1 : Position of table carriage when returned to the origin.
 Note 2 : Distance from both ends to the mechanical stopper.

MR16TD double carriage wall hanging model W



Effective stroke	50	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450
L	538	638	738	838	938	1038	1138	1238	1338	1438	1538	1638	1738	1838	1938
M	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
N	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Weight (kg)	8.7	9.7	10.6	11.5	12.5	13.4	14.3	15.3	16.2	17.1	18.0	19.0	19.9	20.9	21.8

Note 1 : Position of table carriage when returned to the origin.
 Note 2 : Distance from both ends to the mechanical stopper.