NS-MXMS

Single-Axis Robot Medium Nut Rotation Type Main Unit Width 125mm 200W
Horizontal Type Single Slider

■Model

NS — MXMS — ☐ — 200 — ☐ — ☐ — T2 — ☐ — AQ — ☐ — RT

Series	Type	Encoder Type	Motor Type	Lead	Stroke	Applicable controller	Cable Length	Option
		A: Absolute I: Incremental	200: 200W	30: 30mm 20: 20 mm	500: 500mm 〃 1500: 1,500mm	T2: SCON SSEL XSEL-P/Q	N: No S: 3m M: 5m X☐☐: Length Specified	See the options table below

Model/Specification

Model	Encoder Type	Motor Output (W)	Lead (mm)	Stroke (mm)	Speed (mm/s)	Acceleration (Note 1)				Payload capacity (Note 1 & 2)				Rated Thrust (N)
						Horizontal (G)		Vertical (G)		Horizontal (kg)		Vertical (kg)		
						Rated	Maximum	Rated	Maximum	Rated Acceleration	Maximum Acceleration	Rated Acceleration	Maximum Acceleration	
NS-MXMS-①-200-30-②-T2-③-AQ-④-RT	Absolute Incremental	200	30	500~1500	1800	0.3	1.0	Horizontal Only		25	0.5	Horizontal Only		113.9
NS-MXMS-①-200-20-②-T2-③-AQ-④-RT			20		1200	0.3	0.8			40	2.5			170.9

*In the model above, ① indicates the type of encoder, ② indicates the stroke, ③ indicates the cable length, and ④ indicates the option.

Option

Name	Model	Reference page	Note
AQ Seal	AQ	→P5	Standard Equipment
Installation Direction of Standard Cable Track	CT1~CT4	→P5	Enter CT1 for standard installation
Guide with Ball-Retaining Mechanism	RT	→P6	Standard Equipment

Common specifications

Driving Method	Ball Thread, Diameter φ16 mm, Equivalent to Rolled C5
Repeated Positioning Accuracy	+/- 0.01 mm
Backlash	0.02 mm or less
Guide	Integrated to Base
Dynamic Allowable Moment(Note 3)	Ma: 69.6N·m, Mb: 99.0N·m, Mc: 161.7N·m
Overhung load length	Ma Direction: 600mm or less; Mb and Mc Direction: 600mm or less
Base	Material: Aluminium, White Alumite Treatment
Cable Length (Note 4)	N: No cable; S: 3 m; M: 5 m; X☐☐: Length specified
Ambient Temperature	0~40 degrees Celsius, 85% RH or less (No condensation)

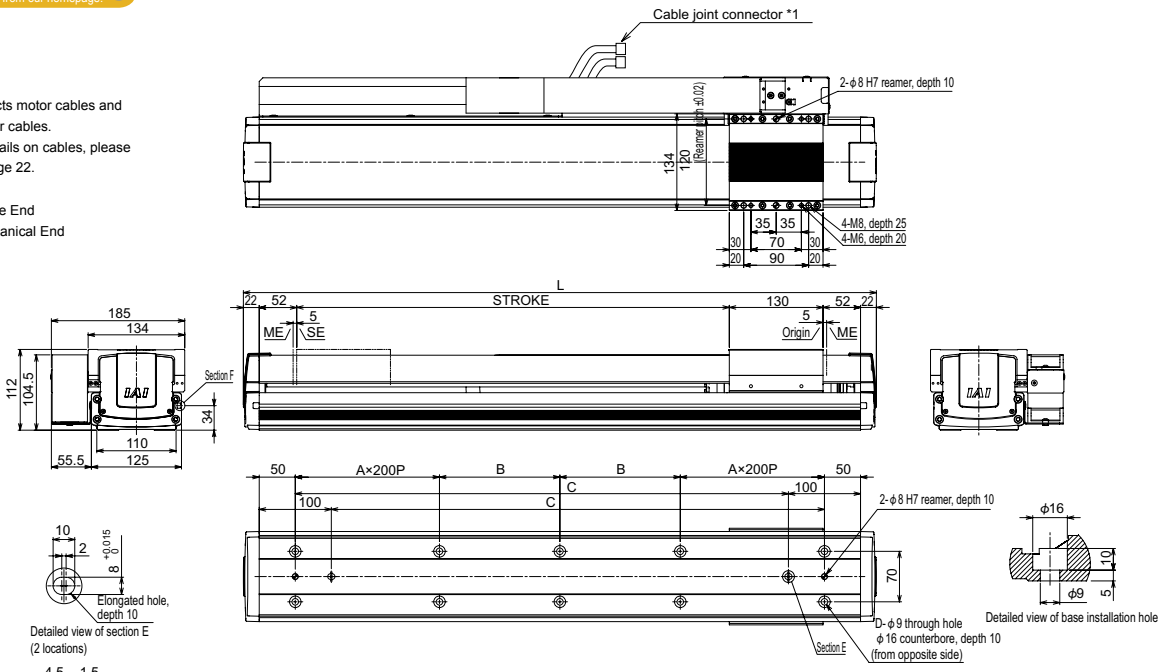
Dimensional drawing

The CAD drawings can be downloaded from our homepage.

2D CAD

*1 Connects motor cables and encoder cables.
For details on cables, please see page 22.

SE: Stroke End
ME: Mechanical End



*For the internal dimensions of the cable track, please see page 6.

Stroke	500	600	700	800	900	1000	1100	1200	1300	1400	1500
L	778	878	978	1078	1178	1278	1378	1478	1578	1678	1778
A	0	1	1	1	1	2	2	2	2	3	3
B	317	167	217	267	317	167	217	267	317	167	217
C	584	684	784	884	984	1084	1184	1284	1384	1484	1584
D	6	10	10	10	10	14	14	14	14	18	18
Mass (kg)	11.9	13.1	14.4	15.6	16.8	18.0	19.3	20.5	21.7	23.0	24.2

Applicable Controller Specifications

Applicable Controller	Max. Number of Axes Controlled	Compatible Encoder Type	Operation Method	Power/ Voltage
X-SEL-P/Q	6 axis	Absolute/ Incremental	Programs	Three-Phase/ Single-Phase 200V AC
SSEL	2 axis			Single-Phase 100/200VAC
SCON	1 axis		Positioner Pulse Train Control	

Note

(Note 1) For the relationship between acceleration and payload capacity, see page 4.
(Note 2) The values shown are payload capacities during operation at maximum speed.
(Note 3) For a 10,000-km running life.
(Note 4) The maximum cable length is 30 m. Please specify length in meters. (E.g., X08 = 8 m)
(Note 5) When an axis with a long stroke (1,300 mm or more) is used hanging from the ceiling, the cover of the body may hang down and contact the slider. Therefore, in cases of such use, please contact our sales representative in advance.