NS-LXMXS

Single-Axis Robot Large Nut Rotation Type Main Unit Width 145mm 400W
Horizontal Type With Mid-Support Single Slider

■Model

NS— LXMXS— □ — 400 — □ — □ — T2 — □ — AQ — □ — RT

Series	Type	Encoder Type	Motor Type	Lead	Stroke	Applicable controller	Cable Length	Option
		A: Absolute I: Incremental	400: 400W	40: 40mm 20: 20 mm	2300: 2,300mm › 3000: 3,000mm	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-LXMXS-①-400-40-②-T2-③-AQ-④-RT	Absolute Incremental	400	40	2300~3000	2400	0.3		Horizontal Only		40		Horizontal Only		170
NS-LXMXS-①-400-20-②-T2-③-AQ-④-RT			20		1300	0.3				80				340.1

*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
Creep Sensor	C	→P5	
Installation Direction of Standard Cable Track	CT1~CT4	→P5	Enter CT1 for standard installation
Installation Direction of Extended Cable Track	ET1~ET4	→P5	
Limit Switch	L	→P6	
Guide with Ball-Retaining Mechanism	RT	→P6	Standard Equipment

Common specifications

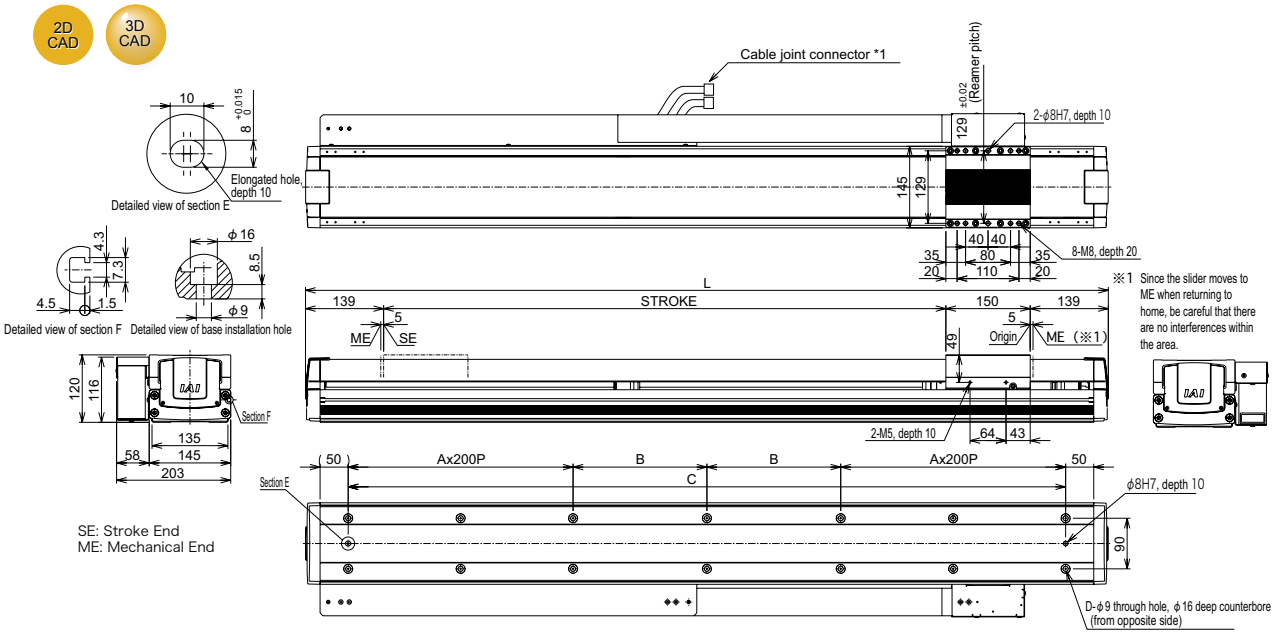
Driving Method	Ball Thread, Diameter φ20 mm, Equivalent to Rolled C5
Repeated Positioning Accuracy	±0.01mm
Backlash	0.02 mm or less
Guide	Integrated to Base
Dynamic Allowable Moment (Note 3)	Ma: 104.9N·m, Mb: 149.9N·m, Mc: 248.9N·m
Overhung load length	Ma Direction: 750 mm or less; Mb and Mc Direction: 750 mm 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 3D CAD

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



SE: Stroke End
ME: Mechanical End

Note: Due to their structure, models with a mid-support cannot be positioned horizontally on their side or vertically.

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

Stroke	2300	2400	2500	2600	2700	2800	2900	3000
L	2728	2828	2928	3028	3128	3228	3328	3428
A	5	6	6	6	6	7	7	7
B	288	138	188	238	288	138	188	238
C	2576	2676	2776	2876	2976	3076	3176	3276
D	26	30	30	30	30	34	34	34
Mass (kg)	46.4	47.9	49.4	50.9	52.3	53.8	55.3	56.8

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 200VAC
SSEL	2 axis			Single-Phase 100/200VAC
SCON	1 axis		Positioner Pulse Train Control	

Note

(Note 1) The maximum acceleration is 0.3 G.
(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.