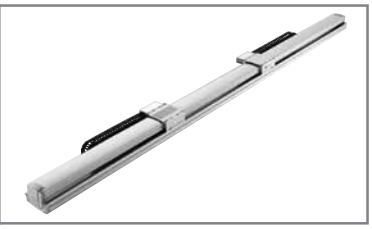
NS-LXMM

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



■Model

NS— LXMM — ☐ — 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	250: 250mm , 2250: 2,250mm	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-LXMM-①-400-40-②-T2-③-AQ-④-RT	Absolute Incremental	400	40	250~2250	2400	0.3	1.0	Horizontal Only		40	10	Horizontal Only		170
NS-LXMM-①-400-20-②-T2-③-AQ-④-RT			20		1300	0.3	1.0			80	24			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	
Standard/Extended Cable Track Selection	CT1/ET1	→P5	Enter CT1 for Standard Cable Track
Limit Switch	L	→P6	
Guide with Ball-Retaining Mechanism	RT	→P6	Standard Equipment

Common specifications

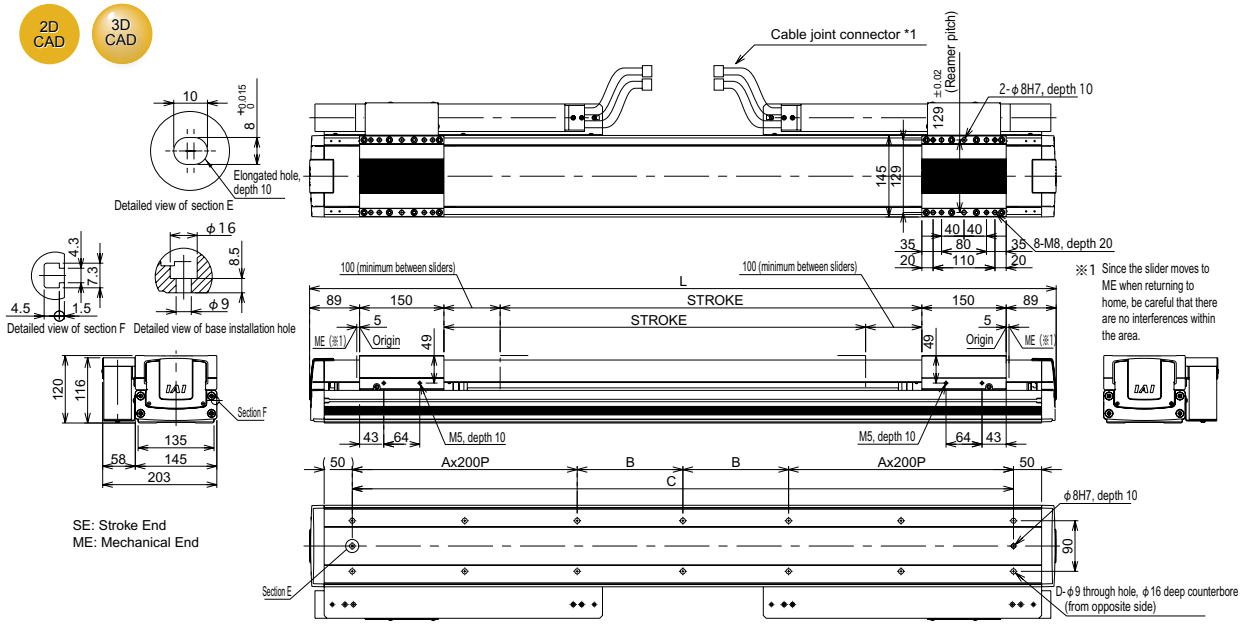
Driving Method	Ball Thread, Diameter φ20 mm, Equivalent to Rolled C5
Repeated Positioning Accuracy	+/- 0.01 mm
Backlash	0.02 mm or less
Guide	Integrated to Base
Dynamic Allowable Moment (Note 3)	Ma: 104.9N·m, Mb: 149.9N·m, Mc: 248.9N·m
Overhung load length	Ma Direction: 750 mm or less; Mb and Mc Direction: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

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

Stroke	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250
L	828	928	1028	1128	1228	1328	1428	1528	1628	1728	1828	1928	2028	2128	2228	2328	2428	2528	2628	2728	2828
A	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
B	138	188	238	288	138	188	238	288	138	188	238	288	138	188	238	288	138	188	238	288	138
C	676	776	876	976	1076	1176	1276	1376	1476	1576	1676	1776	1876	1976	2076	2176	2276	2376	2476	2576	2676
D	10	10	10	10	14	14	14	14	18	18	18	18	22	22	22	22	26	26	26	26	30
Mass (kg)	24.7	26.4	28.2	29.9	31.6	33.4	35.1	36.8	38.6	40.3	42	43.8	45.5	47.2	48.9	50.7	52.4	54.1	55.9	57.6	59.3

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: A two-axis controller is required to operate the multi-slider.
Two controllers are required for SCON.
(Please note that SCON does not have a collision prevention mechanism)

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.