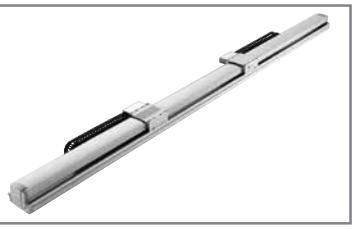
NS-LZMM

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



■Model

NS — LZMM — □ — 400 — □ — □ — T2 — □ — AQ — B — □ — RT

Series	Type	Encoder Type	Motor Type	Lead	Stroke	Applicable controller	Cable Length	Options
		A: Absolute I : Incremental	400: 400W	20: 20 mm	250: 250mm , 950: 950 mm	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-LZMM-①-400-20-②-T2-③-AQ-B-④-RT	Absolute Incremental	400	20	250~950	1000	Vertical Only	0.3	0.8	Vertical Only	16	6.0			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
Brake (*)	B	→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

(*) A brake box is attached for powering the brake.
(For details, see page 21)

Common specifications

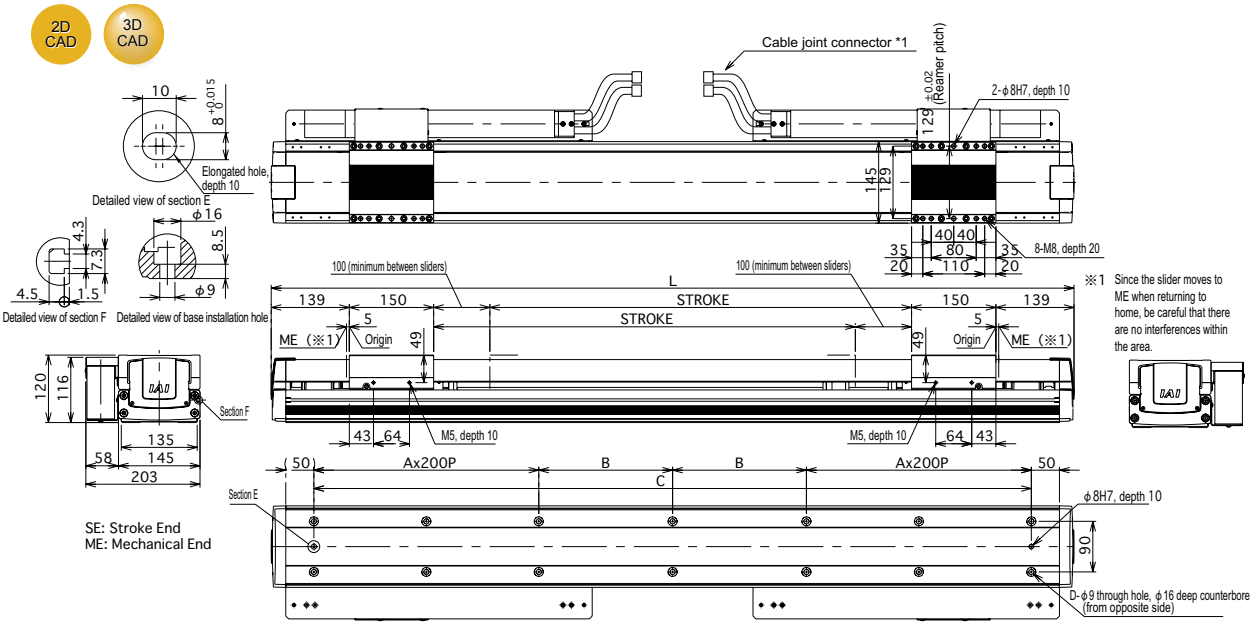
Driving Method	Ball Thread, Diameter φ20 mm, Equivalent to Rolled C5
Repeated Positioning Accuracy	±0.01mm
Backlash	0.02 mm or less
Guide	Integrated to Base
Dynamic Allowable Moment (Note 3)	Ma: 104.9N·m; Mb: 149.9N·m; Mc: 248.9N·m
Overhung load length	Ma Direction: 750 mm or less; Mb and Mc Direction: 750 mm or less
Brake	Non-excitation electromagnetic brakes are installed as standard equipment
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.



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

Stroke	250	350	450	550	650	750	850	950
L	928	1028	1128	1228	1328	1428	1528	1628
A	1	1	1	2	2	2	2	3
B	188	238	288	138	188	238	288	138
C	776	876	976	1076	1176	1276	1376	1476
D	10	10	10	14	14	14	14	18
Mass (kg)	27.1	28.8	30.5	32.2	34	35.7	37.4	39.2

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 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)