

NS-SZMS

Single-Axis Robot Small Nut Rotation Type Main Unit Width 94mm 60W
Vertical Type Single Slider



Model **NS - SZMS** - [] - **60** - [] - [] - **T2** - [] - **AQ** - **B** - [] - **RT**

Series Type Encoder Type Motor Type Lead Stroke Applicable controller Cable Length
 A: Absolute 60: 60W 12: 12 mm 400: 400mm T2: SCON N: No
 I: Incremental SSEL S: 3m
 XSEL-P/Q 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	Maximum	Rated	Maximum	
NS-SZMS- [] -60-12- [] -T2- [] -AQ- [] -RT	Absolute Incremental	60	12	400~800	600	Vertical Only	0.3	0.7	Vertical Only	3	0.5	70.8		

*In the model above, [] indicates the type of encoder, [] indicates the stroke, [] indicates the cable length, and [] indicates the option.

Option

Name	Model	Reference page	Note
AQ Seal	AQ	→P5	Standard Equipment
Brake	B	→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 $\phi 10$ mm, Equivalent to Rolled C10
Repeated Positioning Accuracy	+/- 0.02mm
Backlash	0.05mm or less
Guide	Integrated to Base
Dynamic Allowable Moment (Note 3)	Ma: 28.4 N·m, Mb: 40.2 N·m, Mc: 33.3N·m
Overhung load length	Ma Direction: 450mm or less; Mb and Mc Direction: 450mm 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)

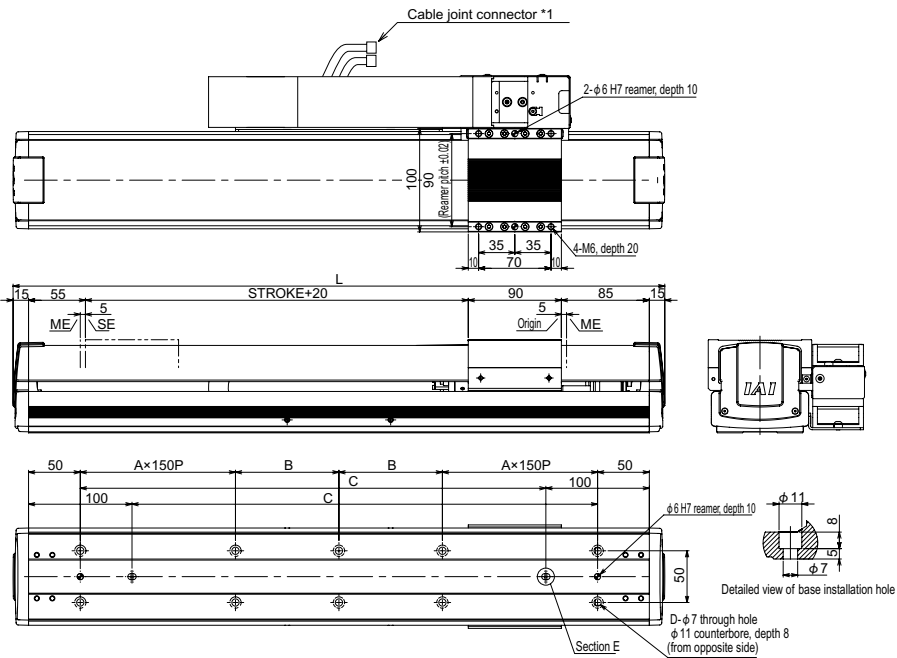
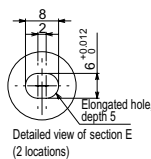
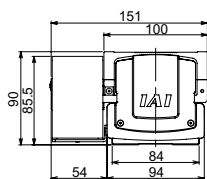
Dimensional drawing

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	400	500	600	700	800
L	680	780	880	980	1080
A	1	1	1	2	2
B	125	175	225	125	175
C	500	600	700	800	900
D	10	10	10	14	14
Mass (kg)	6.2	6.8	7.4	8.1	8.7

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



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)