

# NS-SXMS

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



■Model **NS — SXMS — [ ] — 60 — [ ] — [ ] — T2 — [ ] — AQ — [ ] — RT**

Series    Type    Encoder Type    Motor Type    Lead    Stroke    Applicable Controller    Cable Length    Option

A: Absolute    60: 60W    12: 12 mm    400: 400mm    T2: SCON    N: No    See the options table below  
 1: Incremental    SSEL    S: 3m  
 XSEL-P/Q    M: 5m  
 X[ ]: Length Specified

## 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-SXMS-[ ]-60-12-[ ]-T2-[ ]-AQ-[ ]-RT	Absolute Incremental	60	12	400~800	720	0.3	0.8	Horizontal Only	15	0.5	Horizontal Only	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
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:28.4N·m Mb:40.2N·m Mc:65.7N·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)

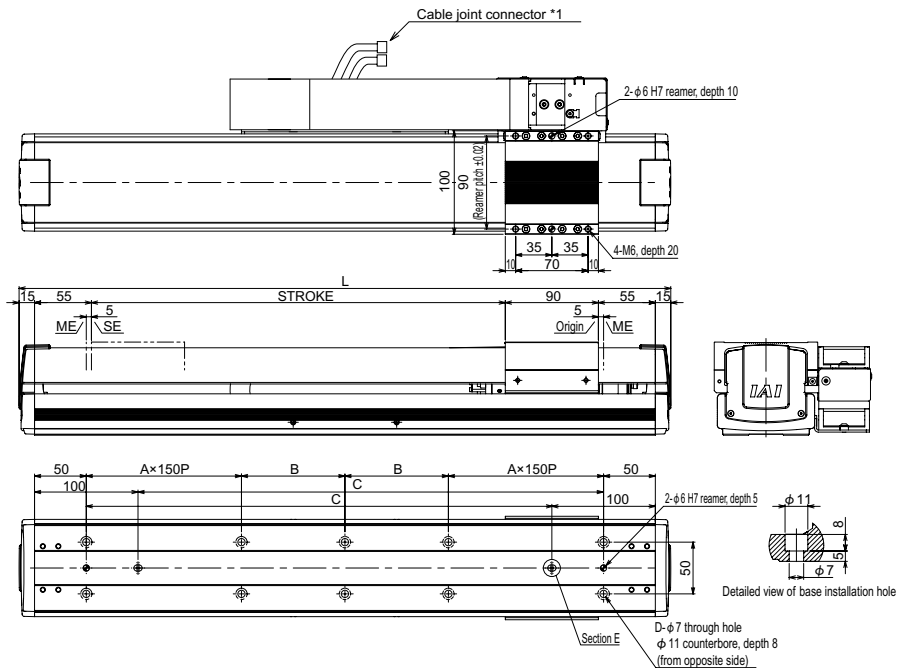
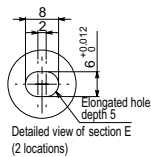
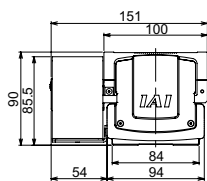
## Dimensional drawing

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	630	730	830	930	1030
A	1	1	1	2	2
B	100	150	200	100	150
C	450	550	650	750	850
D	10	10	10	14	14
Mass(kg)	5.8	6.5	7.1	7.8	8.4

## 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 100/200VAC
SCON	1 axis			



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)