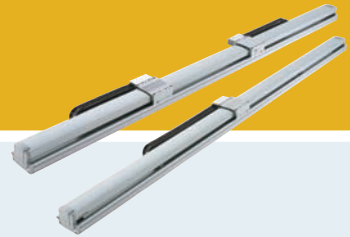


# NS-S/NS-M

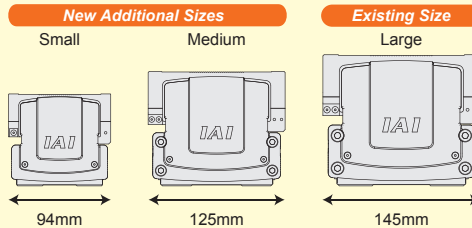


■ Model NS-SX / NS-SZ / NS-MX / NS-MZ

Horizontal and vertical types with single or multi-slider

## Multitude of Variations

The extensive product line-up, which allows you to select specifications such as the size, slider type and installation direction, ensures the optimum configuration for any number of applications.



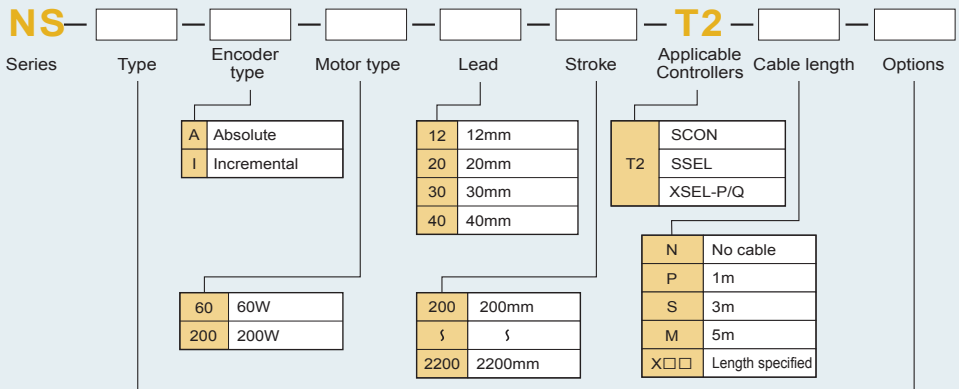
Sliders: 2 types (single slider and multiple sliders)

Install. direction: 2 types (horizontal and vertical)

Cable track installation direction: 4 directions

Medium and large type provided with mid-supports

## Model



SXMS	Small horizontal type/single slider
SXMM	Small horizontal type/multi-slider
SZMS	Small vertical type/single slider
SZMM	Small vertical type/multi-slider
MXMS	Medium horizontal type/single slider
MXMM	Medium horizontal type/multi-slider
MXMXS	Medium horizontal type/single slider with mid-support
MZMS	Medium vertical type/single slider
MZMM	Medium vertical type/multi-slider

AQ	AQ seal
RT	Guide with ball-retaining mechanism
B	Brake (for vertical type)
CT1	Standard cable track direction 1
CT2	Standard cable track direction 2
CT3	Standard cable track direction 3
CT4	Standard cable track direction 4

## Specification Table

Size	Type	Slider	Appearance	Type	Encoder Type	Motor Type (W)	Lead (mm)	Stroke (mm)	Rated Thrust (N)	Maximum Payload (kg)	Maximum Speed (mm/s)	Maximum Acceleration (G)		
Small	Horizontal	Single Slider		SXMS	Absolute Incremental	60	12	400-800	70.8	15	720	0.8		
		Multi-Slider		SXMM				200-800						
	Vertical	Single Slider		SZMS				400-800		3	600	0.7		
		Multi-Slider		SZMM				200-800						
Medium	Horizontal	Single Slider		MXMS		200	30	500-1500	113.9	25	1800	1.0		
		Multi-Slider		MXMM					170.9				40	1200
		Horizontal/ With Mid-supports	Single Slider					MXMXS	30	1600-2200	113.9	25	1800	0.3
			Multi-Slider					MZMS	170.9		40			
	Vertical	Single Slider		MZMS	20		500-800	170.9	6	1000	0.5			
		Multi-Slider		MZMM								300-800		

## Table of Payload by Acceleration Conditions

### 1. Horizontal Installation

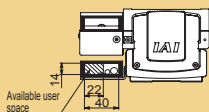
Type	Mid-Support	Motor Output (W)	Lead (mm)	Maximum Speed (mm/s)	Maximum Acceleration (G)	Load Capacity by Acceleration (kg)								
						0.3G	0.4G	0.5G	0.6G	0.7G	0.8G	0.9G	1.0G	
Small	No	60	12	720	0.8	15	7	5	3	1	0.5	—	—	
Medium	No	200	30	1800	1.0	25	16	10	6	3.5	2	1	0.5	
			20	1200	0.8	40	28	18	10	5	2.5	—	—	
	Yes		30	1800	0.3	25	—	—	—	—	—	—	—	—
			20	1200		40	—	—	—	—	—	—	—	—

### 2. Vertical Installation

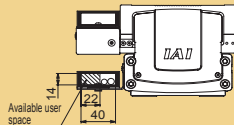
Type	Mid-Support	Motor Output (W)	Lead (mm)	Maximum Speed (mm/s)	Maximum Acceleration (G)	Load Capacity by Acceleration (kg)							
						0.3G	0.4G	0.5G	0.6G	0.7G	0.8G	0.9G	1.0G
Small	No	60	12	600	0.7	3	2	1.5	1	0.5	—	—	—
Medium	No	200	20	1000	0.5	6	4	3	—	—	—	—	—

## Internal Dimensions of Cable Track

### Small



### Medium



#### Regarding the outer diameter and the number of cables to be stored

- Make gaps of at least 2 mm between the outer diameter and the inside wall of the cable and between the cables.
- The outer diameter of the cables should be  $\phi 12$  or less and they should be arranged and used horizontally so that they do not cross each other.
- Note that the life of the cables may be extremely shortened due to forces applied on the cables if the number of cables stored exceeds the specification.

# 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 A: Absolute I: Incremental	Motor Type 60: 60W	Lead 12: 12 mm	Stroke 400: 400mm 800: 800mm	Applicable Controller T2: SCON SSEL XSEL-P/Q	Cable Length N: No S: 3m M: 5m X: CT Length Specified	Option 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)	
NS-SXMS-[ ]-[ ]-60-[ ]-[ ]-T2-[ ]-[ ]-AQ-[ ]-[ ]-RT	Absolute Incremental	60	12	400-800	720	Rated 0.3 Maximum 0.8	Horizontal Only	Rated 15 Maximum 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	→P4	Standard Equipment
Installation Direction of Standard Cable Track	CT1-CT4	→P4	Enter CT1 for standard installation
Guide with Ball-Retaining Mechanism	RT	→P4	Standard Equipment

## Common specifications

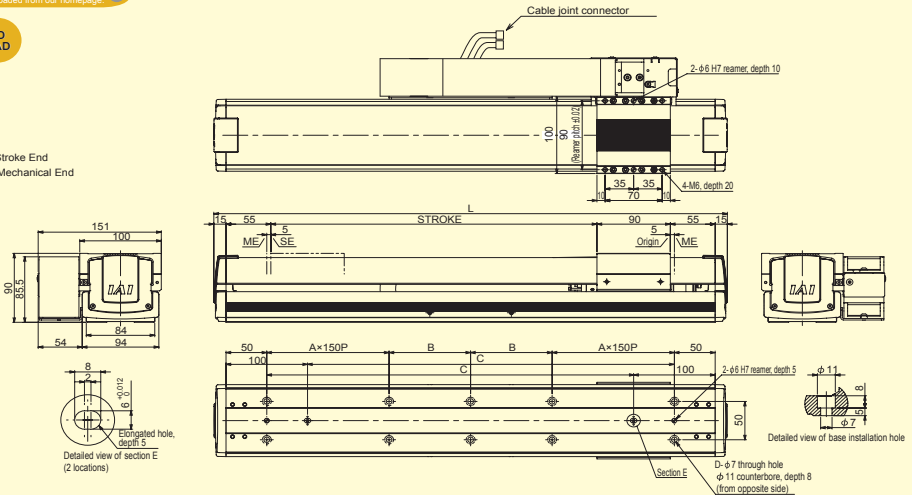
Driving Method	Ball Thread, Diameter $\phi 10$ mm, Equivalent to Rolled C10
Repeated Positioning Accuracy	$\pm 0.02$ mm
Backlash	0.05mm or less
Guide	Integrated to Base
Dynamic Allowable Moment (Note 3)	Ma: 28.4N·m Mb: 40.2N·m Mc: 65.7N·m
Overhung load length	Ma Direction: 450mm or less; Mb and Mc Direction: 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

SE: Stroke End  
 ME: Mechanical End



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 100/230VAC
SCON	1 axis			

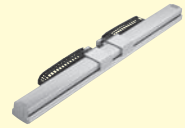


Note

- (Note 1) For the relationship between acceleration and payload capacity, see page 3.
- (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)

# NS-SXMM

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



■Model **NS - SXMM** — **60** — **T2** — **AQ** — **CT1** — **RT**

Series	Type	Encoder Type	Motor Type	Lead	Stroke	Applicable controller	Cable Length
NS	SXMM	A: Absolute I: Incremental	60: 60W 12: 12 mm	200: 200mm 400: 400mm 800: 800mm	T2: SCON SSEL XSEL-P/Q M: 5m X□□: Length Specified	N: No S: 3m M: 5m	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	
NS-SXMM-□-60-12-□-□-□-□-RT	Absolute Incremental	60	12	200-800	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	→P4	Standard Equipment
Installation Direction of Standard Cable Track	CT1	→P4	CT1 for standard
Guide with Ball-Retaining Mechanism	RT	→P4	Standard Equipment

## Common specifications

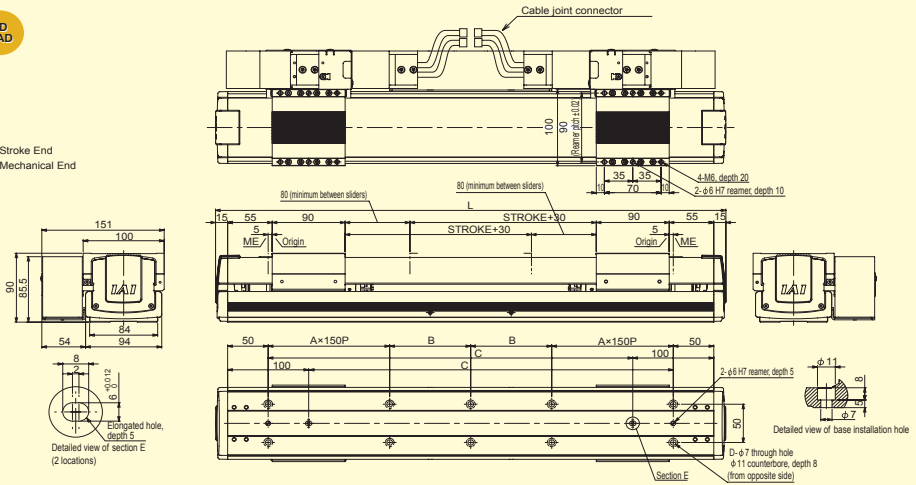
Driving Method	Ball Thread, Diameter φ10 mm, Equivalent to Rolled C10
Repeated Positioning Accuracy	+/- 0.02mm
Backlash	0.05mm or less
Guide	Integrated to Base
Dynamic Allowable Moment (Note 3)	Ma:28.4N·m Mb:40.2N·m Mc:65.7N·m
Overhung load length	Ma Direction: 450mm or less; Mb and Mc Direction: 450mm 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

SE: Stroke End  
 ME: Mechanical End



Stroke	200	300	400	500	600	700	800
L	630	730	830	930	1030	1130	1230
A	1	1	2	2	2	2	2
B	100	150	200	100	150	200	100
C	450	550	650	750	850	950	1050
D	10	10	10	14	14	14	18
Mass (kg)	7.5	8.1	8.7	9.4	10.0	10.7	11.3

## 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 Single-Phase 100/230VAC
SSEL	2 axis			
SCON	1 axis			

Positioner Pulse Train Control



Note

- (Note 1) For the relationship between acceleration and payload capacity, see page 3.
- (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: 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)

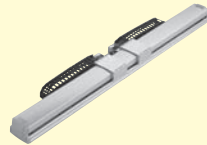






# NS-MXMM

Single-Axis Robot Medium Nut Rotation Type Main Unit Width 125mm 200W  
 Horizontal Type Multi-Slider



■Model **NS - MXMM** [ ] - **200** [ ] - [ ] - **T2** [ ] - [ ] - **AQ - CT1 - RT**

Series	Type	Encoder Type	Motor Type	Lead	Stroke	Applicable controller	Cable Length	Option
NS	MXMM	A: Absolute I: Incremental	200: 200W	30: 30mm 20: 20mm	300: 300mm 1500: 1500mm	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)		
NS-MXMM- [ ] -200-30- [ ] -T2- [ ] -AQ- [ ] -RT	Absolute	200	30	300~1500	1800	0.3	1.0	Horizontal Only	25	0.5	113.9
NS-MXMM- [ ] -200-20- [ ] -T2- [ ] -AQ- [ ] -RT	Incremental	20	20		1200	0.3	0.8		40	2.5	

\*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	→P4	Standard Equipment
Installation Direction of Standard Cable Track	CT1	→P4	CT1 for standard
Guide with Ball-Retaining Mechanism	RT	→P4	Standard Equipment

## Common specifications

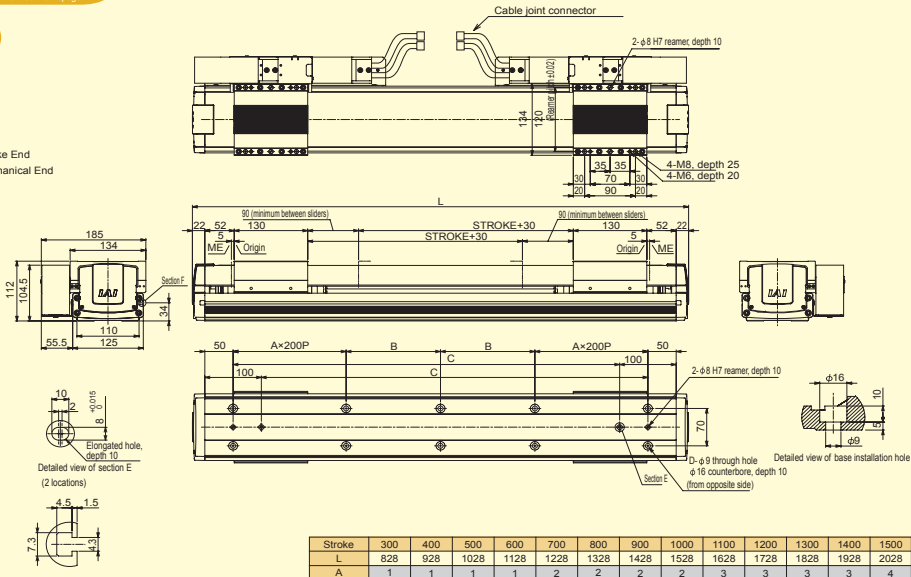
Driving Method	Ball Thread, Diameter φ16 mm, Equivalent to Rolled C5
Repeated Positioning Accuracy	+/- 0.01 mm
Backlash	0.02 mm or less
Guide	Integrated to Base
Dynamic Allowable Moment (Note 3)	Ma: 69.6N·m, Mb: 99.0N·m, Mc: 161.7N·m
Overhung load length	Ma Direction: 600mm or less; Mb and Mc Direction: 600mm 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.



SE: Stroke End  
 ME: Mechanical End



Detailed view of section F (T-slot in base)

Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
L	828	928	1028	1128	1228	1328	1428	1528	1628	1728	1828	1928	2028
A	1	1	1	1	2	2	2	2	3	3	3	3	4
B	142	192	242	292	342	392	442	492	542	592	642	692	742
C	634	734	834	934	1034	1134	1234	1334	1434	1534	1634	1734	1834
D	10	10	10	10	14	14	14	14	18	18	18	18	22
Mass (kg)	15.6	16.8	18	19.2	20.5	21.7	22.9	24.2	25.4	26.6	27.9	29.1	30.3

## 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 230VAC
SSEL	2 axis			Single-Phase 100/230VAC
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

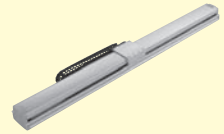
- (Note 1) For the relationship between acceleration and payload capacity, see page 3.
- (Note 2) The values shown are payload capacities during operation at maximum speed.
- (Note 3) For a 10.00-km running life.
- (Note 4) The maximum cable length is 30 m. Please specify length in meters. (E.g., X08 = 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.





# NS-MZMS

Single-Axis Robot Medium Nut Rotation Type Main Unit Width 125mm 200W  
 Vertical Type Single Slider



■ Model **NS - MZMS** [ ] - **200** [ ] - [ ] - **T2** [ ] - [ ] - **AQ - B** [ ] - **RT**

Series	Type	Encoder Type	Motor Type	Lead	Stroke	Applicable controller	Cable Length
A: Absolute I: Incremental	200: 200W 20: 20 mm	500: 500mm T2 S: SEL 800: 800mm X: SEL-P/Q X□: Length Specified	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	Maximum		Rated	Maximum
NS-MZMS-□-200-20-T2-□-AQ-□-RT	Absolute Incremental	200	20	500-800	1000	Vertical Only		0.3	0.5	Vertical Only		6	3	170.9

\*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	→P4	Standard Equipment
Brake (*)	B	→P4	Standard Equipment
Installation Direction of Standard Cable Track	CT1-CT4	→P4	Enter CT1 for standard installation
Guide with Ball-Retaining Mechanism	RT	→P4	Standard Equipment

(\*) A brake box is attached for powering the brake.

## Common specifications

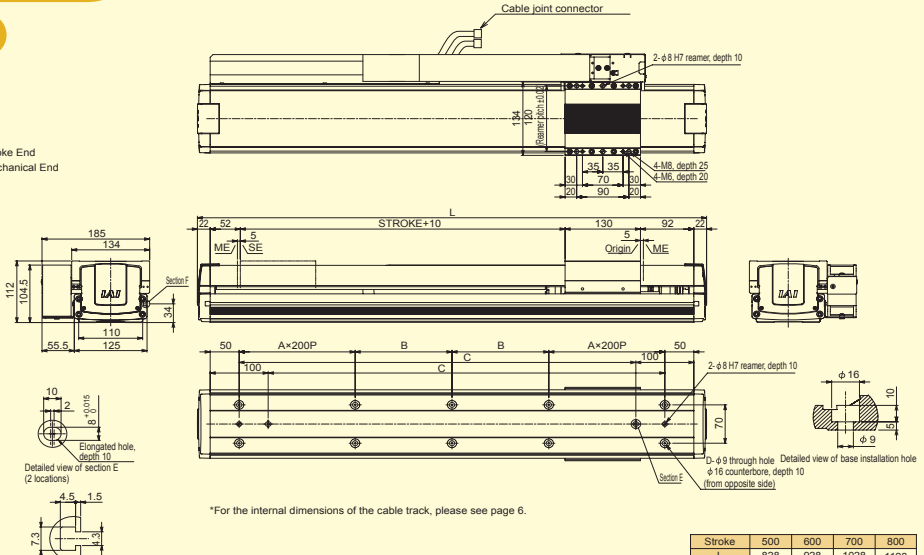
Driving Method	Ball Thread, Diameter φ16 mm, Equivalent to Rolled C5
Repeated Positioning Accuracy	+/- 0.01 mm
Backlash	0.02 mm or less
Guide	Integrated to Base
Dynamic Allowable Moment (Note 3)	Ma: 69.6N·m, Mb: 99.0N·m, Mc: 81.3N·m
Overhung load length	Ma Direction: 600mm or less; Mb and Mc Direction: 600mm 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

SE: Stroke End  
 ME: Mechanical End



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

Stroke	500	600	700	800
L	828	928	1028	1128
A	1	1	1	1
B	142	192	242	292
C	834	734	834	934
D	10	10	10	10
Mass (kg)	13.5	14.8	16.0	17.2

## 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  Positioner Pulse Train Control	Three-Phase Single-Phase 230VAC
SSEL	2 axis			Single-Phase
SCON	1 axis			100/230VAC



Note

(Note 1) For the relationship between acceleration and payload capacity, see page 3.  
 (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)

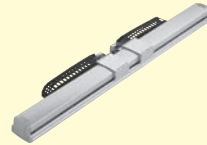
# NS-MZMM

Single-Axis Robot Medium Nut Rotation Type Main Unit Width 125mm 200W  
 Vertical Type Multi-Slider

Model **NS — MZMM** —  — **200** —  — **T2** —  — **AQ — B — CT1 — RT**

Series Type Encoder Type Motor Type Lead Stroke Applicable controller Cable Length  
 A: Absolute 200: 200W 20: 20 mm 300: 300mm T2: SCON N: No  
 I: Incremental SSEL S: 3m  
 800: 800mm 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 Acceleration	Maximum Acceleration	
NS-MZMM- <input type="checkbox"/> -200-20- <input type="checkbox"/> -T2- <input type="checkbox"/> -AQ- <input type="checkbox"/> -RT	Absolute Incremental	200	20	300-800	1000	Vertical Only	0.3	0.5	Vertical Only	6	3	170.9

\*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	→P4	Standard Equipment
Brake (*)	B	→P4	Standard Equipment
Installation Direction of Standard Cable Track	CT1	→P4	CT1 for standard
Guide with Ball-Retaining Mechanism	RT	→P4	Standard Equipment

(\*) A brake box is attached for powering the brake.

## Common specifications

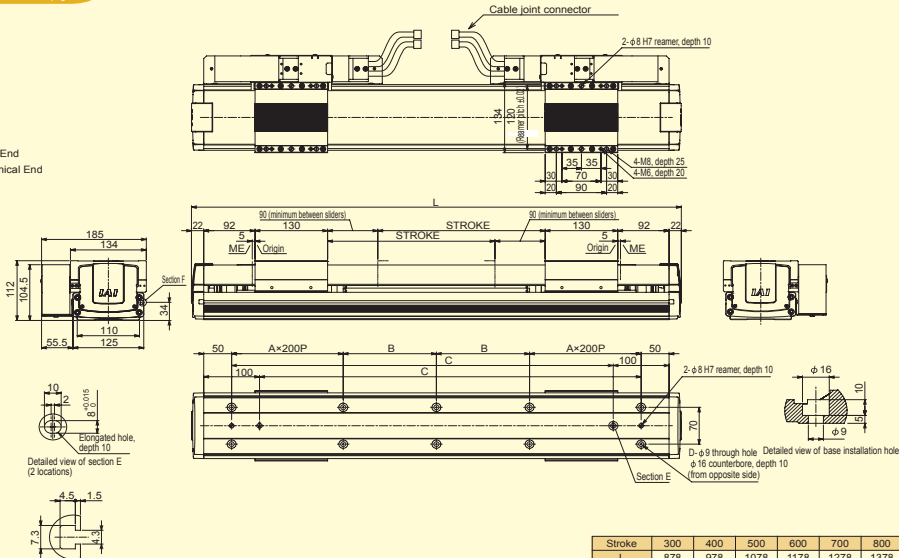
Driving Method	Ball Thread, Diameter φ16 mm, Equivalent to Rolled C5
Repeated Positioning Accuracy	±0.01 mm
Backlash	0.02 mm or less
Guide	Integrated to Base
Dynamic Allowable Moment (Note 3)	Ma: 69.6N·m, Mb: 99.0N·m, Mc: 81.3N·m
Overhanging load length	Ma Direction: 600mm or less; Mb and Mc Direction: 600mm 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

SE: Stroke End  
 ME: Mechanical End



Detailed view of section F (T-slot in base)

Stroke	300	400	500	600	700	800
L	878	978	1078	1178	1278	1378
A	1	1	1	1	2	2
B	167	217	267	317	367	417
C	684	784	884	984	1084	1184
D	10	10	10	10	14	14
Mass (kg)	17.2	18.4	19.7	20.9	22.1	23.4

## 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 230VAC
SSEL	2 axis			Single-Phase 100/230VAC
SCON	1 axis			

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 3.
- (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)

## Controller

	Controller Series/Type	SCON	SSEL	XSEL	
				P (Standard) Type	Q (Global) Type
Basic Specifications	Form				
	Power Capacity	Maximum: 844VA	Maximum: 1660VA (For 400W 2-axis operation)	Maximum: 4988VA (For 6-axis operation total of 2400W)	
	Input Power	Single-Phase AC 230V	Single-Phase AC 100V Single-Phase AC 230V	Three-Phase AC 230V Single-Phase AC 230V	
	Range of Operating Power Voltages	±10%			
Control Specifications	Maximum total connected axes output (W)	750W(for 230V power supply)	400W(for 100V power supply) 800W(for 230V power supply)	2400W(For three-phase) 1600W(For single-phase)	
	Max. Number of Axes Controlled	1 axis	2 axis	6 axis	
	Position Detection Method	Incremental Encoder/Absolute Encoder			
	Safety Circuit Configuration	Duplexing not possible		Duplexing not possible	Duplexing possible
	Operation Method	Positioner Operation Pulse Train Control	Program Operation Positioner Operation (Switchable)	Program Operation Only	
Programs	Number of Programs	—	—	128	
	Number of Program Steps	—	—	9999	
	Number of Multi-Task Programs	—	8	16	
	Number of Positions	Maximum: 512	—	20000	
	Data Input Device (Optional)	Teaching Box Model: CON-T-ENG  PC-Supported Software Model: RCM-101-MW (For RS232 Communication) RCM-101-USB (For USB Communication)	Teaching Box Model: SEL-T-J/SEL-TD-J  PC-Supported Software Model: IA-101-X-MW-J (For RS232 Communication) IA-101-X-USB (For USB Communication)	Teaching Box Model: SEL-T/SEL-TD  PC-Supported Software Model: IA-101-X-MW (For RS232 Communication) IA-101-X-USBMW (For USB Communication)	Teaching Box Model: SEL-TD  PC-Supported Software Model: IA-101-XA-MW (With RS232 Communication) Safety Category-Supported Cable)
Input/Output and Communication	Standard Input/Output	Input: 16 points/Output: 16 points (NPN/PNP Selection Allowed)	Input: 24 points/Output: 8 points (NPN/PNP Selection Allowed)	Input: 32 points/Output: 16 points (NPN/PNP Selection Allowed)	
	Expanded Input/Output	Not Possible			
	Field Network	DeviceNet, CC-Link, ProfiBus	DeviceNet, CC-Link, ProfiBus	DeviceNet, CC-Link, ProfiBus, Ethernet	
General Specifications	Ambient Temperature/Humidity during Operation	0~40°C 10~95%(No condensation)			
	Ambient Air during Operation	No Corrosive gas. Especially no dust.			
	Outer Dimensions	72(W)×200.5(H)×121(D)	100(W)×202.6(H)×126(D) When the absolute battery is installed	340(W)×195(H)×125.3(D) (For 6-axis absolute specification)	
	Mass	1.1 kg	1.4kg	5.7kg(For 6-axis absolute specification)	
	Attachments	I/OFlat Cable(40 Cores)	I/OFlat Cable(34 Cores)	I/OFlat Cable(50 Cores)	

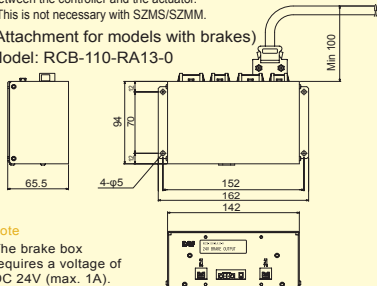
### ■ Brake Box (Attachment)

With the vertical types (MZMS/MZMM/LZMS/LZMM), this device must be installed while wiring the encoder between the controller and the actuator.

\*This is not necessary with SZMS/SZMM.

(Attachment for models with brakes)

Model: RCB-110-RA13-0



#### Note

The brake box requires a voltage of DC 24V (max. 1A).

### ■ Regenerative Resistance Unit (Optional)

■ Features This unit converts the regenerative current from a decelerating motor into heat. Refer to the following table to determine the required number of regenerative resistors according to the total wattage of the actuator.

■ Models  
 REU-1 (for XSEL)  
 REU-2 (for SCON/SSEL)

	Horizontal			Vertical		
	XSEL	SSEL	SCON	XSEL	SSEL	SCON
0	~100W	~200W	~100W	~100W	~200W	~100W
1	~500W	~800W	~400W	~800W	~600W	~400W
2	~800W			~1200W	~800W	~750W
3	~1200W			~1600W		
4	~2000W			~2000W		
5	~2400W			~2400W		

\*Depending on the operating conditions, the number of regenerative resistors required may be larger than the number listed in the table above.  
 \*If two regenerative resistance units are required for SCON/SSEL, use model REU-1 as the second unit.

