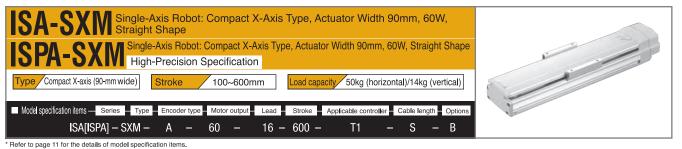
ISA/ISPA Single-Axis Robots



Models/Specifications

Model Encoc	Encoder type	Motor output	I Lead I	Stroke (mm) In increments of 50mm (Note 1)	(mm/s)	Acceleration (Note 2)			Load capacity (Note 2)					
						Horizontal (G)		Vertical (G)		Horizontal (kg)		Vertical (kg)		Rated thrust (N)
		(W)				Rated	Maximum	Rated	Maximum		Maximum acceleration		Maximum acceleration	
ISA [ISPA] -SXM-A-60-16- * * * - T1-△-□		60	16	100~600	1~800	0.3	1.0	0.3	0.7	12	3.5	3	2	63.7
ISA [ISPA] -SXM-A-60-8- * * * - T1-∆-□	Absolute		8		1~400	0.3	0.6	0.3	0.5	25	12	6	5	127.4
ISA [ISPA] -SXM-A-60-4- * * * - T1-△-□			4		1~200	0.15	0.5	0.15	0.3	50	30	14	12	254.8
ISA [ISPA] -SXM-I-60-16- * * * - T1-△-□			16		1~800	0.3	1.0	0.3	0.7	12	3.5	3	2	63.7
ISA [ISPA] -SXM-I-60-8- * * * - T1-△-□	Incremental		8		1~400	0.3	0.6	0.3	0.5	25	12	6	5	127.4
ISA [ISPA] -SXM-I-60-4- * * * - T1-△-□			4		1~200	0.15	0.5	0.15	0.3	50	30	14	12	254.8

* In the above model names, *** indicates the stroke, riangle the cable length and \Box the applicable options.

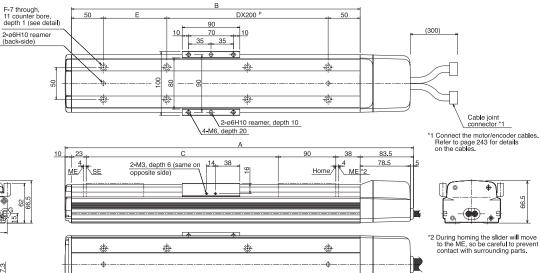
Options					
Name	Code	Page	Name	Code	Page
AQ seal	AQ	P13	Master-axis designation	LM	P14
Brake	В	P13	Master-axis designation (sensor on opposite side)	LLM	P14
Creep sensor	С	P13	Reverse homing specification	NM	P14
Creep sensor on opposite side	CL	P13	Guide with ball-retaining mechanism	RT	P14
Home limit switch	L	P14	Slave-axis designation	S	P14
Home limit switch on opposite side	LL	P14			

*1.0G =9800mm/sec²

Common Specifications	Refer to page 10 for the details of common specification items.
Positioning repeatability (Note 3)	±0.02mm [±0.01mm]
Drive system (Note 4)	Ball screw ø12mm, rolled C10 [equivalent to rolled C5]
Lost motion (Note 5)	0.05mm or less [0.02mm or less]
Guide	integrated with base
Allowable static moment	Refer to page 242
Allowable dynamic moment	Ma: 28.4N•m Mb: 40.2N•m Mc: 65.7N•m
Overhang load length	Ma direction: 450mm or less, Mb/Mc directions: 450mm or less
Base	Material: Aluminum, with white alumite treatment
Cable length (Note 6)	N: None, S: 3m, M: 5m, X□□: Specified length
Ambient operating temperature/humidity	0 to 40°C, 85%RH max. (non-condensing)



* Note that changing the home direction will require the actuator to be returned to IAI for adjustment.



٩

(250)

494.5

401

250

101

6

3.7

SE: Stroke end ME: Mechanical end

500

744.5

651

500

2

151

8

5.2

(550)

794.5

701

550

2

201

8

5.5

600

844.5

751

600

2

251

8

5.8

(450)

694.5

601

450

2

101

8

4.9

400

644.5

551

400

1

251

6

4.6

4.5 1.5 Detail view of G (T-slot in base)



Detail view of base mounting part

Applicable Controller Specifications

Applicable controller opecifications									
Applicable controller	Maximum number of controlled axes		Program operation	Positioner operation	Pulse-train control	Supply voltage	Page		
X-SEL	4 axes	Absolute/incremental	0	Δ	×	AC100/200V			
E-Con	1 axis	Absolute/incremental	×	0	Х	AC100/200V			
P-Driver	1 axis	Incremental	×	Х	0	AC100/200V			

٢

Strok

Α

В

D

F

Weight (kg

Lead 16

Lead 8

Lead 4

٢

100

344.5

251

100

0

151

4

2.8

Dimensions, Weight and Maximum Speed by Stroke

200

444.5

351

200

0

251

4

3.4

(150)

394.5

301

150

0

201

4

3.1

	(Note 1) Th
	S
	(Note 2) Re
	Cá
Caution	(Notes 3, 4
Caution	0
	(Note 6) Th

(**(**))

(350)

594.5

501

350

1

201

6

4.3

800

400

200

300

544.5

451

300

1

151

6

4.0

e strokes that are set in increments of 50 mm are semi-standard ettings. efer to page 40 for the relationship of acceleration and load

apacity.

(4,5) The figures in brackets apply to the ISPA Series. Other specification values apply to both the ISA and ISPA Series. he maximum cable length is 30 m. Specify the desired length in meters (e.g., X08 = 8 m).

* Refer to page 9 for other points to note.

ISPA/ICSPA Catalog

5