Single-Axis Robot: Super-Large X-Axis Type, Actuator Width 198mm, 600W. Straight Shape

Single-Axis Robot: Super-Large X-Axis Type, Actuator Width 198mm, 600W. Straight Shape High-Precision Specification

■ Model specification items

Series ISA: Standard Specification ISPA: High-Precision

600 Encoder type Motor Output Lead A:Absolute I:Incremental 600:600W 40:40mm

Stroke 100:100mm 20:20mm 10:10mm 1300:1300mm

T1:XSEL-J/K T2:SCON SSEL XSEL-P/Q (every 100mm)

Applicable controller Cable length Options N:None S:3 m M:5 m XD: Length

Refer to the option list below. specification



Models/Specifications

* 1.0G=9800mm/sec²

					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Acceleration (Note 2)				Load capacity (Note 2)				
Model	Encoder type	Motor				Horizontal (G)		Vertical (G)		Horizontal (G)		Vertical (G)		Rated
			(mm)			Rated	Maximum	Rated	Maximum	Rated acceleration	Maximum acceleration	Rated acceleration	Maximum acceleration	thrust (N)
ISA[ISPA]-WXM-①-600-40-②-③-④-L-⑤			40		1 ~ 2400	0.3	1.0	0.3	1.0	60	18	14	5	255
ISA[ISPA]-WXM-①-600-20-②-③-④-L-⑤	Absolute Incremental 600	600	20 100	100 ~ 1300	1 ~ 1200	0.3	1.0	0.3	0.8	120	36	29	15	510
ISA[ISPA]-WXM-①-600-10-②-③-④-L-⑤		10		1 ~ 600	0.3	0.6	0.3	05	150	75	60	40	1020	

^{*} In the above model names, ① indicates the encoder type, ② stroke, ③ applicable controller, ④ cable length and ⑤ options.

Options

Name	Code	Page	Name	Code	Page
AQ seal	AQ	→P13	Master-axis designation	LM	→P14
Brake	В	→P13	Reverse homing specification	NM	→P14
Creep sensor	С	→P13	Slave-axis designation	S	→P14
Home limit switch	L	→P14	Optional cable exit direction	A1/A3	Refer to the figure below

^{*} With the WXM type, the home limit switch (L) is a standard equipment.

Common Specifications

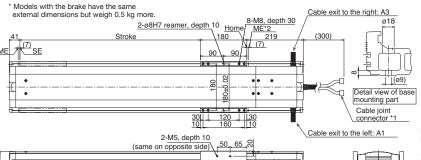
Positioning repeatability (Note 3)	± 0.02 mm [± 0.01 mm]
Drive system (Note 4)	Ball screw ø20 mm, rolled C10 [equivalent to C5]
Lost motion (Note 5)	0.05 mm or less [0.02 mm or less]
Allowable static moment	Refer to page 242
Allowable dynamic moment (Note 6)	Ma: 139.2 N · m Mb: 199.9 N · m Mc: 391 N · m
Overhang load length	Ma direction: 900 mm or less, Mb/Mc directions: 900 mm or less
Base	Material: Aluminum with white alumite treatment
Applicable controller	T1: XSEL-J/K T2: XSEL-P/Q, SSEL, SCON
Cable length (Note 7)	N: No cable, S: 3 m, M: 5 m, X□□: Length specification
Ambient operating temperature • humidity	0 to 40°C, 85% RH or less (Non-condensing)

Dimensions

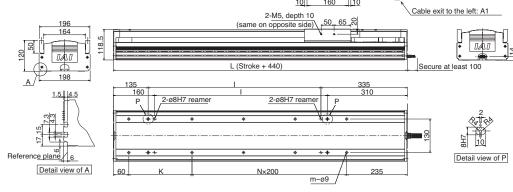


* To change the home RoHS direction, the robot must be returned for adjustment.





- 1 Connect the motor cable and encoder cable. Refer to p. 243 for details on the cables
- SE: Stroke end ME: Mechanical end
- *2 During homing the slider will move to the ME, so be careful to prevent contact with surrounding parts.



■ Dimensions Weight and Maximum Speed by Stroke

	■ Differsions, weight and Maximum Speed by Stroke													
	Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300
	L	540	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740
	I	70	170	270	370	470	570	670	770	870	970	1070	1170	1270
	K	245	145	245	145	245	145	245	145	245	145	245	145	245
	N	-	1	1	2	2	3	3	4	4	5	5	6	6
	m	4	6	6	8	8	10	10	12	12	14	14	16	16
	Weight (kg)	18.1	20.1	22.1	24.1	26.1	28.0	30.0	32.0	34.0	35.9	37.9	39.9	41.9
ximum speed (mm/s)	Lead 40				24	00				1840	1530	1290	1100	950
aries depending on	Lead 20		1200						920	765	645	550	475	
e stroke.	Lead 10				60	00				460	380	320	270	235

Applicable Controller Specifications

Max * Vai the

Applicable controller	Maximum number of controlled axes	Compatible encoder type	Operating method	Supply voltage	Page
X-SEL-P/Q	6 axes			Single phase/ Three-phase 200VAC	
X-SEL-K	4 axes	l	Program	Single phase AC 100/200V	
X-SEL-J (Note 8)	4 axes	Absolute/ Incremental			
SSEL	2 axes	moromonia		Single phase AC 200V	
SCON	1 axis		Positioner pulse train control	g p	

Caution

- (Note 1) A longer stroke will result in a lower maximum speed to prevent the ball screw from reaching a dangerous speed. (Refer to the above table for the maximum speed at a given stroke.)
 (Note 2) Refer to page 40 for the relationship of acceleration and payload. (Note 3.4,5) The figures in brackets apply to the ISPA Series. Other specification values apply to both the ISA and ISPA Series
- Traveling life of 10,000 km is assumed.

 The maximum cable length is 30 m. Specify the desired length in meters (e.g. X08 = 8 m) (Note 6) (Note 7)
- (Note 8) If the WXM type is to be used vertically, use a controller other than the XSEL-J type.

Specification Refer to page 11 for the details of model specification items.

The WXM type comes with the home limit switch as a standard equipment, so use a controller of limit switch specification for this type.