Single-Axis Robot: Super-Large X-Axis Type, Actuator Width 198mm, 750W. Straight Shape

Single-Axis Robot: Super-Large X-Axis Type, Actuator Width 198mm, 750W. Straight Shape High-Precision Specification

■ Model specification items

ISA: Standard Specification
ISPA: High-Precision
Specification

750 Encoder type Motor Output Lead A:Absolute 750:750W 50:50mm 25:25mm I :Incremental

Stroke Applicable controller Cable length T1:XSEL-J/K T2:SCON SSEL XSEL-P/Q 100:100mm 1300:1300mm (every 100mm)

Options N:None Refer to S:3 m M:5 m the option list below. X□□: Length specification



Models/Specifications

* 1.0G=9800mm/sec²

							Acceleration	on (Note	2)		Load capac	city (Note 2)		
	Encoder	Motor	Lead	Stroke(mm)	Speed	Horiz	ontal (G)	Vert	ical (G)	Horizor	ntal (G)	Vertica	al (G)	Rated
Model	type	output (W)	(mm)	In increments of 100mm	(Mote1) Rated Maximum Rated Maximum Rated acceleration	Maximum acceleration	Rated acceleration	Maximum acceleration	thrust (N)					
ISA[ISPA]-WXM-①-750-50-②-③-④-L-⑤	Absolute	750	50	100 ~ 1300	1 ~ 2000	0.3	1.0	0.3	1.0	60	18	14	5	255
ISA[ISPA]-WXM-①-750-25-②-③-④-L-⑤	Incremental	/30	25	100 ~ 1300	1 ~ 1250	0.3	1.0	0.3	0.8	120	36	29	15	510

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

* Models with the brake have the same

Options

Name	Code	Page	Name Code Pa		Page
AQ seal	AQ	→P13	Master-axis designation	LM	→P14
Brake	В	→P13	Reverse homing specification NM →P		→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 ø25 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)					

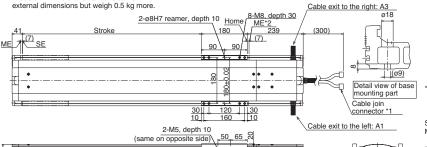
Dimensions



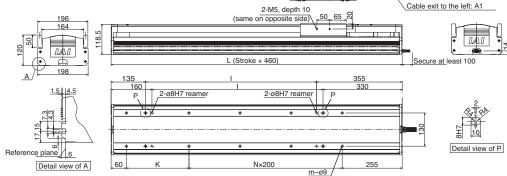
adjustment.







- *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.



	Dimension	ns, We	eight ar	nd Max	imum S	Speed	by Stro	ke						
	Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300
	L	560	660	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760
	1	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)	20.9	22.9	24.9	26.9	28.9	30.8	32.8	34.8	36.8	38.7	40.7	42.7	44.7
speed (mm/s)	Lead 50		2000								•	1840	1570	1360
epending on the stroke.	Lead 25	1250									1090	920	785	680

Applicable Controller Specifications

Maximum :
* Varies de

Applicable con	a oner opeemean	OHO			
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]	Program	Single phase AC 100/200V	
X-SEL-J (Note 8)	4 axes	Absolute/ Incremental			
SSEL	2 axes	litoromoritar		Single phase AC 200V	
SCON	1 axis		Positioner pulse	5 5 1,	

SCON	1 axis	train control		
* The WXM type comes wit	th the home limit switch	as a standard equipment, so use a cor	ntroller of limit switch specification	for this type.

\wedge
Caution

(Note 1) A longer stroke will result in a lower maximum speed to prevent (Note 1) A longer stoke 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)

If the WXM type is to be used vertically, use a controller other than (Note 7)

(Note 8) the XSEL-J type

^{*} Refer to page 11 for the details of model specification items.