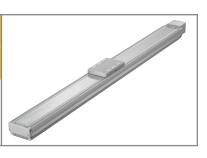
Single-axis rob	ot/Large,	dustproof, mid-support type/Actuator width:	
150mm/400W	Straight	shape	

Single-axis robot/Large, dustproof, mid-support type/Actuator width: 150mm/400W Straight shape High precision specification

Model Specification Items	Series – LX	— 400 — Encoder type Motor type	- Lead	Stroke Applicable controller	r Cable length Options
	ISDB: Standard specification ISPDB: High precision specification	A: Absolute 400: 400W specification I: Incremental specification	40:40mm 20:20mm	1000: 1000mm T1: XSEL-J/K 2 T2: SCON 1600: 1600mm SSEL (in 100mm increments) XSEL-P/Q	N : None Refer to the options S : 3m table below. M: 5m X□□ : Specified length



* Refer to P. 10 for the details of items comprising the model number.

ISDB-LX-400

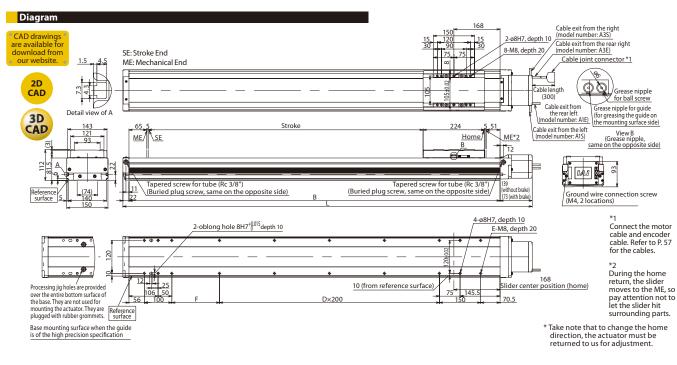
ISPDB-LX-400

	model Number/Specification							*1.0G=980	00mm/s	ec ²			
			Motor output (W)	i i ead i	Stroke in 100mm increments (mm)		Acceleration (Note 1)			te 1)	Payload (Note 1)		Rated thrust (N)
	Model number	Encoder I				Speed (mm/s)	Horizontal (G) Vertica			Horizontal (kg) Vertical (kg)			
						(, 5)	Rated	Maximum	Rated	Maximum	Rated Maximum acceleration	Rated acceleration Acceleration	
	ISDB[ISPDB]-LX-①-400-40-②-③-④-⑤	Absolute 400		40 1000 14	1000~1600			0.4	Designed		40	Designed 1 exclusively for	169.6
	ISDB[ISPDB]-LX-①-400-20-②-③-④-⑤	Incremental	tal 400 -		1000~1000	1~1200		0.4	exclusively for horizontal use		90	horizontal use	339.1
*1	*In the above model numbers Dividicates the encoder time Dividicates the store Bindicates the applicable controller Dividicates the cable langth and Dividicates the ention(s)												

*In the above model numbers, 🕕 indicates the encoder type, 😰 indicates the stroke, 🕄 indicates the applicable controller, 🕢 indicates the cable length, and 🗊 indicates the option(s

Option					
Name	Model number	Reference page	Name	Model number	Reference page
Cable exit from the left	A1S	→P11	Home limit switch	L	→P11
Cable exit from the rear left	A1E	→P11	Home limit switch on the opposite side	LL	→P11
Cable exit from the right	A3S	→P11	Master axis specification	LM	→P12
Cable exit from the rear right	A3E	→P11	Master axis specification (sensor on the opposite side)	LLM	→P12
AQ seal (standard feature)	AQ	→ P11	Non-motor side specification	NM	→P12
Brake	В	→P11	Guide with ball retention mechanism	RT	→P12
Creep sensor	C	→P11	Slave axis specification	S	→P12
Creep sensor on the opposite side	CL	→P11	High straightness, precision specification	ST	→P13

Common Specifications					
Positioning repeatability (Note 2)	±0.01mm [±0.005mm]				
Drive method (Note 3)	Ball screw ø20mm, rolled C10 [equivalent to rolled C5]				
Lost Motion (Note 4)	0.05mm [0.02mm] max.				
Dynamic allowable load moment (Note 5)	Ma: 104.9N•m Mb: 149.9N•m Mc: 248.9N•m				
Overhang load length	Ma direction: 750mm max. Mb, Mc directions: 750mm max.				
Dynamic straightness (Note 6)	0.02mm/m max.				
Base	Material: Aluminum, with white alumite treatment				
Applicable controller	T1: XSEL-J/K T2: XSEL-P/Q, SSEL, SCON				
Cable length (Note 7)	N: None, S: 3m, M: 5m, X 🗆 : Specified length				
Protection structure	IP30				
Ambient operating temperature/humidity	0 to 40°C, 85%RH max. (non-condensing)				



Dimensions, Mass and Maximum Speed by Stroke ** If the brake is equipped, the mass increases by 0.5kg, *The maximum speed (mm/s) varies depending on the stroke

St	troke	1000	1100	1200	1300	1400	1500	1600
1	without brake	1511	1611	1711	1811	1911	2011	2111
L L	with brake	1545	1645	1745	1845	1945	2045	2145
	В	1350	1450	1550	1650	1750	1850	1950
	D	4	5	5	6	6	7	7
	E	16	18	18	20	20	22	22
	F	173.5	73.5	173.5	73.5	173.5	73.5	173.5
Ma	iss (kg)	30.1	31.8	33.6	35.4	37.1	38.9	40.6
Maximum	Maximum Lead 30				00			1660
speed (mm/s) Lead 20 1200					1150	1000	950	830

Applicable Controller Specifications

Applicable Controller	Maximum number of controlled axes	Connectable encoder type	Operating method	Power-supply voltage	Reference page
X-SEL-P/Q	6 axes			Single/three- phase 200 VAC	→ P56
X-SEL-J/K	4 axes	Absolute/ incremental	Program	Single-phase	→P56
SSEL	2 axes	Incremental		100/200 VAC	→P56
SCON	1 axis		Positioner pulse train control	Single-phase 200 VAC	→P56

	(Note 1) (Notes 2, 2
	(Note 5) (Note 6)
CAUTION	(Note 7)

Refer to P. 9 for the relationship of acceleration and payload. , 3, 4) The values in [] apply to the ISPDB series. Other specification values apply commonly to the ISDB and ISPDB. When the traveling life is 10,000km. The value of dynamic straightness is when the high straightness, respinse restriction (series) is more file.

precision specification (option) is specified. The maximum cable length is 30m. Specify a desired length in

meters. (Example. X08 = 8m)