## ISDBCR-LX-400

Single-axis robot for cleanroom/Large, mid-support type/Actuator width: 150mm/400W Straight shape

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

Specification Items

ISDRCR: Standard

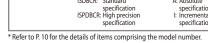
- 400 ---Encoder type Motor type A: Absolute

specification I: Incremental specification

Lead 400: 400W 40 ·40mm 20:20mm

Stroke Applicable controller Cable length 1000: 1000mm T1: XSEL-J/K T2: SCON SSEL XSEL-P/Q 2500: 2500mm (in 100mm increments)

Options N:None S:3m table b M:5m X□□: Specified length

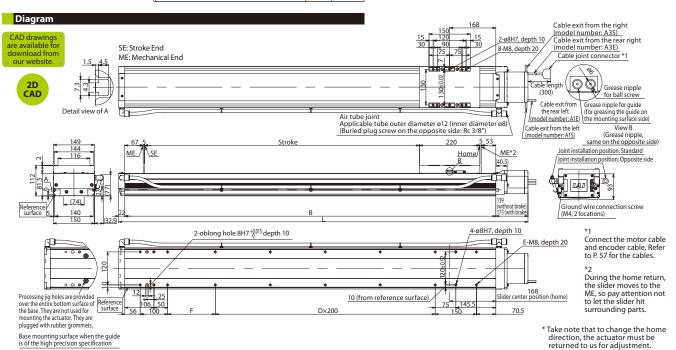


## Model Number/Specification \*1.0G=9800mm/sec2 Acceleration (Note 1) Payload (Note 1) Stroke in Rated Suction Encoder Lead 100mm Speed Horizontal (kg) Model number output (W) Horizontal (G) Vertical (G) Vertical (kg) thrust flow rate increments type (Nℓ/min) (N) Rated Maximum (mm) Rated Maximum ISDBCR[ISPDBCR]-LX-1-400-40-2-3-4-5 40 1~1800 Designed Designed 169.6 180 Absolute 400 1000~2500 exclusively for horizontal use exclusively for ISDBCR[ISPDBCR]-LX-1 -400-20-2 -3 -4 -5 Incremental 20 1~1200 0.4 90 339.1 120 horizontal use

\*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	<b>→</b> P11	Home limit switch	L	<b>→</b> P11
Cable exit from the rear left	A1E	<b>→</b> P11	Home limit switch on the opposite side	LL	<b>→</b> P11
Cable exit from the right	A3S	<b>→</b> P11	Master axis specification	LM	<b>→</b> P12
Cable exit from the rear right	A3E	<b>→</b> P11	Master axis specification (sensor on the opposite side)	LLM	<b>→</b> P12
AQ seal (standard feature)	AQ	<b>→</b> P11	Non-motor side specification	NM	<b>→</b> P12
Brake	В	<b>→</b> P11	Guide with ball retention mechanism	RT	<b>→</b> P12
Creep sensor	С	<b>→</b> P11	Slave axis specification	S	<b>→</b> P12
Creep sensor on the opposite side	CL	<b>→</b> P11	High straightness, precision specification	ST	<b>→</b> P13
			Suction tube joint on the opposite side	VR	<b>→</b> P12

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
Grease	Low dust-raising grease (for ball screw and guide)
Cleanliness degree	Class 10 (0.1µm per 1cf)
Suction tube joint	Quick connect joint, applicable tube outer diameter ø12mm



■ 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.

Sti	roke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
	without brake	1511	1611	1711	1811	1911	2011	2111	2211	2311	2411	2511	2611	2711	2811	2911	3011
L	with brake	1545	1645	1745	1845	1945	2045	2145	2245	2345	2445	2545	2645	2745	2845	2945	3045
	В	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850
	D	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
	E	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32
	F	173.5	73.5	173.5	73.5	173.5	73.5	173.5	73.5	173.5	73.5	173.5	73.5	173.5	73.5	173.5	73.5
Mas	ss (kg)	30.2	31.9	33.6	35.4	37.1	38.8	40.6	42.3	44.0	45.8	47.5	49.2	51.0	52.7	54.4	56.2
Maximum	Lead 40			18	00			1660	1480	1300	1180	1080	980	880	820	740	680
speed (mm/s)	Lead 20		1200		1150	1000	950	830	740	650	590	540	490	440	410	370	340

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Applica	ble Controller Sp	pecifications			
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	<b>→</b> P56
X-SEL-J/K	4 axes	Absolute/	Program	Single-phase	<b>→</b> P56
SSEL	2 axes	incremental		100/200 VAC	<b>→</b> P56
SCON	1 axis		Positioner pulse train control	Single-phase 200 VAC	<b>→</b> P56

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