## ISDB-LX-200

Single-axis robot/Large, dustproof, mid-support type/Actuator width: 150mm/200W Straight shape

Single-axis robot/Large, dustproof, mid-support type/Actuator width: 150mm/200W Straight shape High precision specification

Stroke in 100mm

increments (mm)

1000~1600

Specification Items

ISDR: Standard

-200-Encoder type Motor type A: Absolute 200: 200W specification I: Incremental specification

Encoder

type

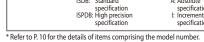
Absolute

Incremental

Lead Stroke Applicable controller Cable length 40·40mm 20:20mm 1600: 1600mm (in 100mm increments)

N:None





Model number

ISDB[ISPDB]-LX-1-200-40-2-3-4-5

ISDB[ISPDB]-LX-1-200-20-2-3-4-5

Base mounting surface when the guide is of the high precision specification

## Model Number/Specification

*1.0G=9800mm/sec²										
Speed (mm/s)	Acceleration (Note 1)			Payload (Note 1)						
	Horizontal (G)		Vertical (G)		Horizontal (kg)		Vertical (kg)		Rated thrust (N)	
	Rated	Maximum	Rated	Maximum	Rated acceleration	Maximum acceleration	Rated acceleration	Maximum acceleration		
1~1800	0.4		Designed exclusively for horizontal use		15		Designed exclusively for horizontal use		85.5	
1~1200	0.4				45				170.9	

'In the above model numbers, 🗓 indicates the encoder type, 😰 indicates the stroke, ③ indicates the applicable controller, 🖫 indicates the cable length, and 🐌 indicates the option(s).

output (W)

200

Lead

40

20

Option							
Name	Model 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		

Common Specifications	
Positioning repeatability (Note 2)	±0.01mm [±0.005mm]
Drive method (Note 3)	Ball screw ø16mm, 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)

## Diagram CAD drawings are available for Cable exit from the right (model number: A3S) 2-ø8H7, depth 10 download from Cable exit from the rear right (model number: A3E) 8-M8, depth 20 SE: Stroke End ME: Mechanical End Cable joint connector \*1 2D CAD Grease nipple for ball screw Cable length (300) Cable exit from the rear left (model number: A1E) 3D Grease nipple for guide (for greasing the guide on the mounting surface side) v of A Cable exit from the left (model number: A1S) CAD Stroke View B ME/ ₹\se Home ME\*2 12 DALU 🗽 Tapered screw for tube (Rc 3/8") \(Buried plug screw, same on the opposite side) Tapered screw for tube (Rc 3/8' (Buried plug screw, same on the opposite side) Ground wire connection screw (M4, 2 locations) 151 (with brake) 4-ø8H7, depth 10 2-oblong hole 8H7 $^{+0.015}_{0}$ depth 10 E-M8, depth 20 Connect the motor cable and encoder cable. Refer to P. 57 for the cables. During the home return, the slider moves to the ME, so 168 Processing jig holes are provided over the entire bottom surface of the base. They are not used for mounting the actuator. They are plugged with rubber grommets. 10 (from reference surface) Slider center position(home)

D×200

direction, the actuator must be returned to us for adjustment. ■ Dimensions, Mass and Maximum Speed by Stroke 

Stroke		1000	1100	1200	1300	1400	1500	1600
	without brake	1489	1589	1689	1789	1889	1989	2089
L	with brake	1523	1623	1723	1823	1923	2023	2123
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
Mass (kg)		29.7	31.4	33.2	35.0	36.7	38.5	40.2
Maximum Lead 30		1800						1660
			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	<b>→</b> P56			
X-SEL-J/K	4 axes	Absolute/ incremental	Program	Single-phase 100/200 VAC	<b>→</b> P56			
SSEL	2 axes	incrementai			<b>→</b> P56			
SCON	1 axis		Positioner pulse train control		<b>→</b> P56			

(Note 1)	Refer to P. 9 for the relationship of acceleration and payload.
(Notes 2, 3, 4	) The values in [] apply to the ISPDB series. Other specification
	values apply commonly to the ISDB and ISPDB.
(Note 5)	When the traveling life is 10,000km.
(Note 6)	The value of dynamic straightness is when the high straightness,
	precision specification (option) is specified.
(Note 7)	The maximum cable length is 30m. Specify a desired length in
	meters.
	(Example. X08 = 8m)

70.5

pay attention not to let the slider hit

surrounding parts.

\* Take note that to change the home