ISDB-MX-200

Single-axis robot/Medium, dustproof, mid-support type/Actuator width: 120mm/200W Straight shape

ISPDB-MX-200

Single-axis robot/Medium, dustproof, mid-support type/Actuator width: 120mm/200W Straight shape High precision specification

Model Specification Items

Series Type ISDB: Standard specification ISPDB: High precision specification

MX

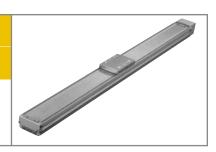
- 200 — Encoder type Motor type A: Absolute 200: 200W specification I: Incremental specification

Lead 30:30mm

Stroke Applicable controller Cable length T1: XSEL-J/K T2: SCON SSEL) XSEL-P/Q 800: 800mm 1600: 1600mm (in 100mm increments)

N: None

Options Refer to the options table below. S:3m table b
M:5m
X□□: Specified length



Model Number/Specification

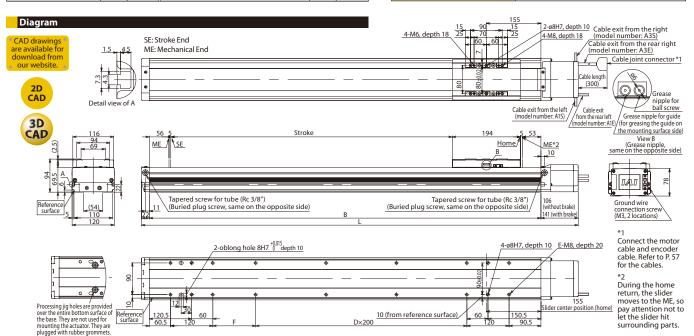
*1.0G=9800mm/se	-2

		Motor		Stroke in 100mm		Acceleration (Note 1)			Payload (Note 1)						
Model number	Encoder type	output	Lead (mm)	increments	Speed (mm/s)	Horizo	ontal (G)	Vert	ical (G)	Horizon	ntal (kg)	Vertica	al (kg)	Rated thrust (N)	
	1)	(W)	()	(mm)	(111111,3)	Rated	Maximum	Rated	Maximum	Rated acceleration	Maximum acceleration	Rated acceleration	Maximum acceleration	` ′	
ISDB[ISPDB]-MX-①-200-30-②-③-④-⑤	Absolute	200	30	800~1600	1~1800	(0.4		signed	3	80	Desig		113.9	
ISDB[ISPDB]-MX-①-200-20-②-③-④-⑤	Incremental	Incremental 200		200 20 800~1600 1		1~1200	(0.4	exclusively for horizontal use		4	15	exclusively for horizontal use		170.9

"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 ø16mm, rolled C10 [equivalent to rolled C5]				
Lost Motion (Note 4)	0.05mm [0.02mm] max.				
Dynamic allowable load moment (Note 5)	Ma: 69.6N•m Mb: 99.0N•m Mc: 161.7N•m				
Overhang load length	Ma direction: 600mm max. Mb, Mc directions: 600mm 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)				



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

■ Dimen	sions, Mass and	d Maximum Sp	eed by Stroke		*If the brake is equipped, the mass increases by 0.5kg. *The maximum speed (mm/s) varies depending on the stroke.					
	Stroke	800	900	1000	1100	1200	1300	1400	1500	1600
1	without brake	1241	1341	1441	1541	1641	1741	1841	1941	2041
L	with brake	1276	1376	1476	1576	1676	1776	1876	1976	2076
	В	1113	1213	1313	1413	1513	1613	1713	1813	1913
	D	3	3	4	4	5	5	6	6	7
	E	14	14	16	16	18	18	20	20	22
	F	122	222	122	222	122	222	122	222	122
N	Лass (kg)	18.3	19.6	20.9	22.2	23.4	24.7	26.0	27.3	28.6
	Maximum Lead 30 1800				1650	1500	1425	1200	1050	
speed (mm/s) Load 20 1200				1100	1000	050	900	700		

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

* Take note that to change the home direction, the actuator must be returned to us for adjustment.

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