## ISDBCR-MX-200 Single-axis robot for cleanroom/Medium, mid-support type/Actuator width: 120mm/200 W Straight shape Single-axis robot for cleanroom/Medium, mid-support type/Actuator width: 120mm/200W Straight shape High precision specification - 200 ---Specification Items Encoder type Motor type Lead Stroke Applicable controller Cable length Options ISDBCR: Standard A: Absolute 200: 200W 30 · 30mm 800:800mm T1: XSEL-J/K N:None specification ISPDBCR: High precision specification specification I: Incremental specification T2: SCON SSEL XSEL-P/Q

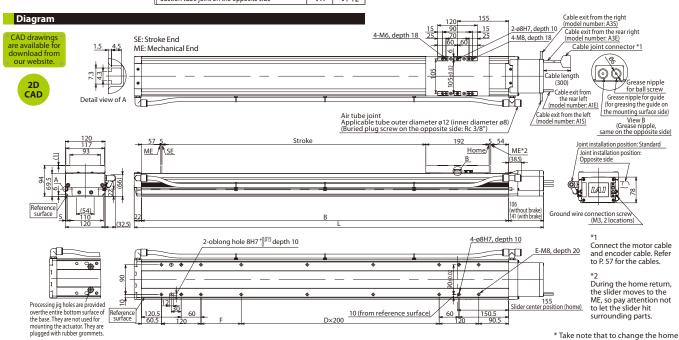
2000: 2000mm (in 100mm increments)

## Model Number/Specification \*1.0G=9800mm/sec2 Acceleration (Note 1) Payload (Note 1) Stroke in Rated Suction Encoder Lead 100mm Speed Horizontal (G) Horizontal (kg) Vertical (kg) Model number output (W) Vertical (G) thrust flow rate (N<sub>ℓ</sub>/min) (mm) increments type (N) Rated Maximum Rated Maximum (mm) Designed exclusively for horizontal use Designed exclusively for horizontal use ISDBCR[ISPDBCR]-MX-1-200-30-2-3-4-5 30 1~1800 113.9 180 Absolute 200 800~2000 ISDBCR[ISPDBCR]-MX-1-200-20-20-3-4-5 Incremental 20 1~1200 0.4 45 170.9 120

<sup>&</sup>quot;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		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 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				
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				



ensions Mass and Maximum Speed by Stroke

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

direction, the actuator must be returned to us for adjustment.

■ Dimensions, wass 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.				
Stroke		800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
	without brake	1241	1341	1441	1541	1641	1741	1841	1941	2041	2141	2241	2341	2441
L	with brake	1276	1376	1476	1576	1676	1776	1876	1976	2076	2176	2276	2376	2476
	В	1113	1213	1313	1413	1513	1613	1713	1813	1913	2013	2113	2213	2313
	D	3	3	4	4	5	5	6	6	7	7	8	8	9
	E	14	14	16	16	18	18	20	20	22	22	24	24	26
	F	122	222	122	222	122	222	122	222	122	222	122	222	122
Mas	s (kg)	18.5 19.8 21.0 22.3		23.6	24.9	26.2	27.4	28.7	30.0	31.3	32.5	33.8		
Maximum	Lead 30		18	00		1650	1500	1425	1200	1050	900	825	750	675
speed (mm/s)	Lead 20		12	00		1100	1000	950	800	700	600	550	500	450

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	incremental			<b>→</b> P56				
SCON	1 axis		Positioner pulse train control		<b>→</b> P56				

CAUTION	(Note 1) Refer to P. 9 for the relationship of acceleratio (Notes 2, 3, 4) The values in [] apply to the ISPDBCR series. C specification values apply commonly to the IS (Note 5) When the traveling life is 10,000km. (Note 6) The value of dynamic straightness is when the precision specification (option) is specified. (Note 7) The maximum cable length is 30m. Specify a meters. (Example. X08 = 8m)	Other 'Delta Specified Spe

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