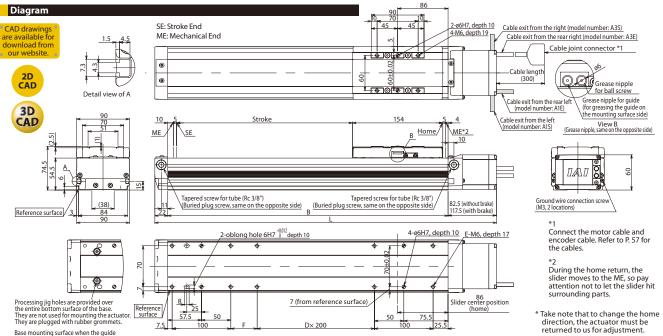
ISDB-S Single-axis robot/Small, dustproof type/Actuator width: 90mm/60W Straight shape Single-axis robot/Small, dustproof type/Actuator width: 90mm/60W Straight shape High precision specification Model Specification Items S - 60 --Encoder type Motor type Lead Stroke Applicable controller Cable length Options ISDB: Standard A: Absolute 60: 60W 16·16mm 100: 100mm T1: XSEL-J/K N:None S:3m specification ISPDB: High precision specification specification I: Incremental specification T2: SCON SSEL XSEL-P/Q 8: 8mm 4: 4mm 800: 800mm (in 50mm increments)

Model Number/Specification *1.0G=9800mm/sec² Acceleration (Note 1) Payload (Note 1) Motor Speed (mm/s) Encoder Lead 50mm Rated Model number output (W) Horizontal (G) Vertical (G) Horizontal (kg) Vertical (kg)** increments thrust (N) (mm) type (mm) Rated Maximum Rated Maximum ISDB[ISPDB]-S-1-60-16-2-3-4-5 0.4 53.1 16 1~960 1.0 0.4 0.8 13 3 2 4.5 Absolute ISDB[ISPDB]-S-10-60-8-20-30-40-50 60 8 100~800 1~480 0.4 0.7 0.4 0.6 27 12 6 5 106.1 Incremental ISDB[ISPDB]-S-1-60-4-2-3-4-5 4 1~240 0.2 0.5 0.2 0.4 55 30 14 12 212.3

^{*}In the above model numbers, (1) indicates the encoder type, (2) indicates the stroke, (3) indicates the applicable controller, (4) indicates the cable length, and (5) indicates the option(s).
**If the guide with ball retention mechanism (RT) is used, the vertical payload decreases by 0.5kg. (Please also refer to P.9).

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	С	→ 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 ø12mm, rolled C10 [equivalent to rolled C5]				
Lost Motion (Note 4)	0.05mm [0.02mm] max.				
Dynamic allowable load moment (Note 5)	Ma: 28.4N•m Mb: 40.2N•m Mc: 65.7N•m				
Overhang load length	Ma direction: 450mm max. Mb, Mc directions: 450mm 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)				



ı	Dimensi	ons, Mass and	d Maximu	ım Speed	l by Strok	e			*11	the brake is ed	uipped, the m	ass increases b	y 0.2kg. *Th	e maximum sp	eed (mm/s) va	ries depending	on the stroke.
	St	roke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Г	1	without brake	382.5	432.5	482.5	532.5	582.5	632.5	682.5	732.5	782.5	832.5	882.5	932.5	982.5	1032.5	1082.5
		with brake	417.5	467.5	517.5	567.5	617.5	667.5	717.5	767.5	817.5	867.5	917.5	967.5	1017.5	1067.5	1117.5
		В	278	328	378	428	478	528	578	628	678	728	778	828	878	928	978
		D	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3
		E	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
		F	45	95	145	195	45	95	145	195	45	95	145	195	45	95	145
	Ma	ss (kg)	4.1	4.4	4.8	5.1	5.5	5.9	6.2	6.6	7.0	7.3	7.7	8.1	8.4	8.8	9.1
ſ	Maximum	Lead 16					960					920	795	690	610	540	480
1	speed	Lead 8					480					460	400	345	305	270	240
- 1	(mm/s)	Lead 4					240					230	200	170	150	135	120

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	→ P56
X-SEL-J/K	4 axes	Absolute/	Program	Single-phase 100/200 VAC	→ P56
SSEL	2 axes	incremental			→ P56
SCON	1 axis		Positioner pulse train control		→ P56

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

(Note 1)	Refer to P. 9 for the relationship of acceleration and payload.
(Notes 2, 3, 4	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)
	(Notes 2, 3, 4 (Note 5) (Note 6)

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