ISDB-M-400	Oum Battery- Iess absolute Proof Medium type Actuator width	
Model ISDB — M — WA — 400 — 4 Specification Series — Type — Encoder type — Motor type — I Items WA: Battery-less 400:400W 48:4 absolute	 T2	
• Please refer to P. 9 for more information about the model specification ite	Please be sure to include the AQ seal (AQ) and one of the symbols for cable	exit direction.

· Controller is not included.

Actuator Specifications						
Model number	Motor output (W)	Lead (mm)	Payload Horizontal (kg)	(Note 1) Vertical (kg)	Rated thrust (N)	Stroke (mm)
ISDB-M-WA-400-48-①-T2-②-③	400	48	20	6	141.3	100~1100 (Every 50mm)

(Note 1) The value of payload is when operating at an acceleration of 0.4G. When the acceleration is increased, the payload will be CAUTION reduced. Please contact IAI for more Information.

(Note 2)

• Legend: ① Stroke ② Cable length ③ Options

Option						Actuator
		Reference page	Name	Model number	Reference page	Positioning repeata
Cable exit from the left	number A1S	→P10	Master axis specification		→P11	Drive method
Cable exit from the rear left		→P10	Master axis specification (sensor on the opposite side)		→P11	Lost motion
Cable exit from the right		→P10	Non-motor end specification		→P11	Dynamic allowable
Cable exit from the rear right		→P10	Guide with ball retention mechanism		→P11	Overhang load leng
AO seal (standard feature)	AO	→P10	Slave axis specification	s	→P11	Dynamic straightne
Brake	B	→P10	Slider roller specification	SR	→P10	Base
Creep sensor		→P10	High straightness, precision specification (stroke 100~600)	ST	→P12	Protection structure
Creep sensor on the opposite side	CL	→P10	High straightness, precision specification (stroke 100~000)		→P12	Ambient operating
Home limit switch		→P10	Double slider specification	W	→P11	* Assumes a standar
			Double silder specification	VV	7 P11	installation condition
Home limit switch on the opposite side	LL	→P10				** Please refer to P13

Actuator Specifications	
Positioning repeatability	±0.01mm
Drive method	Ball screw φ16mm, rolled C10
Lost motion	0.05mm max.
Dynamic allowable load moment (*)(**)	Ma: 81.0N•m Mb: 116N•m Mc: 189N•m
Overhang load length(**)	Ma direction: 600mm max. Mb, Mc directions: 600mm max
Dynamic straightness (Note 2)	0.02mm/m max.
Base	Material: Aluminum, with white alumite treatment
Protection structure	IP30
Ambient operating temperature/humidity	0 to 40°C, 85%RH max. (non-condensing)

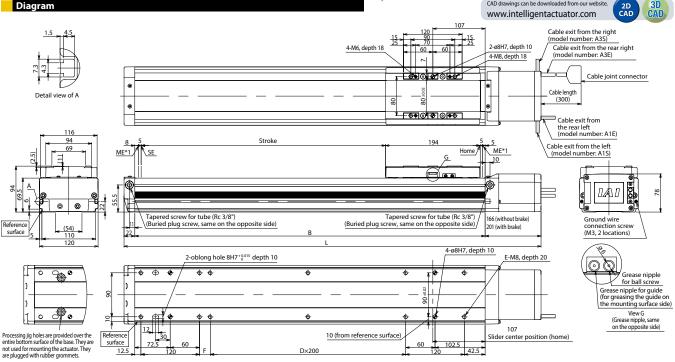
precision specification option is specified.

The value of dynamic straightness is when the high straightness,

ard rated life of 10,000km. The operational life will vary depending on operation and ons. Please refer to P16 for details on operational life. 13 for the dynamic allowable load moment and overhang load length for the double slider option

CAD drawings can be downloaded from our website

Diagram



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

*1 When the slider is returning to its home position, Please be careful of interference from surrounding objects, as it will travel until it reaches the ME. ME: Mechanical End SE: Stroke End

* Please return the actuator to us if a home direction change is necessary after purchase.

* The allowable moment offset reference position is 51.5mm from the slider work mounting position.

Dimensions and Mass by Stroke

				-																		
	Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
	without brake	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405	1455	1505
L	with brake	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540
	В	317	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317
	D	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5
	E	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18
	F	22	72	122	172	22	72	122	172	22	72	122	172	22	72	122	172	22	72	122	172	22
Mass	without brake	8.5	9.1	9.7	10.3	11.0	11.6	12.2	12.9	13.5	14.1	14.8	15.4	16.0	16.6	17.3	17.9	18.5	19.2	19.8	20.4	21.1
(kg)	with brake	9	9.7	10.3	10.9	11.6	12.2	12.8	13.5	14.1	14.7	15.3	16	16.6	17.2	17.9	18.5	19.1	19.8	20.4	21	21.6
Maxii spe (mn	ed Lead 48	980	1270	1520	1740	1930	2050	2125	2200	2200	2200	2200	2200	2200	2145	1920	1730	1570	1430	1305	1195	1105

Applicable Controllers

Controller Controlled axes Positioner pulse	Maximum number of	0	Operating method			Maximum number of	Reference	
	pulse train control	program	Power-supply voltage	positioning points	page			
SCON-CB/CGB	1 axes	•	•	-	Single-phase AC200V	512 (768 for network spec.)	Please	
SCON-LC/LCG	1 axes	-	-	•	Single-phase AC200V	512 (768 for network spec.)	contact IAI	
SSEL-CS	2 axes	•	-	•	Single-phase AC100/200 V	20000	for more	
(SEL-P/Q/RA/SA	8 axes	-	-	•	Single-phase AC200V / three-phase AC200V	55,000 (depend on type)	information.	



Some limitations may apply to Vertical/ side/ceiling mountings depending on the model. Please contact IAI for more information.

