

Single-Axis Robot: Large Y-Axis Long Slider Type, Actuator Width 150mm, 400W, Straight Shape High-Precision Specification

Load capacity 80kg (horizontal)/19kg (vertical)

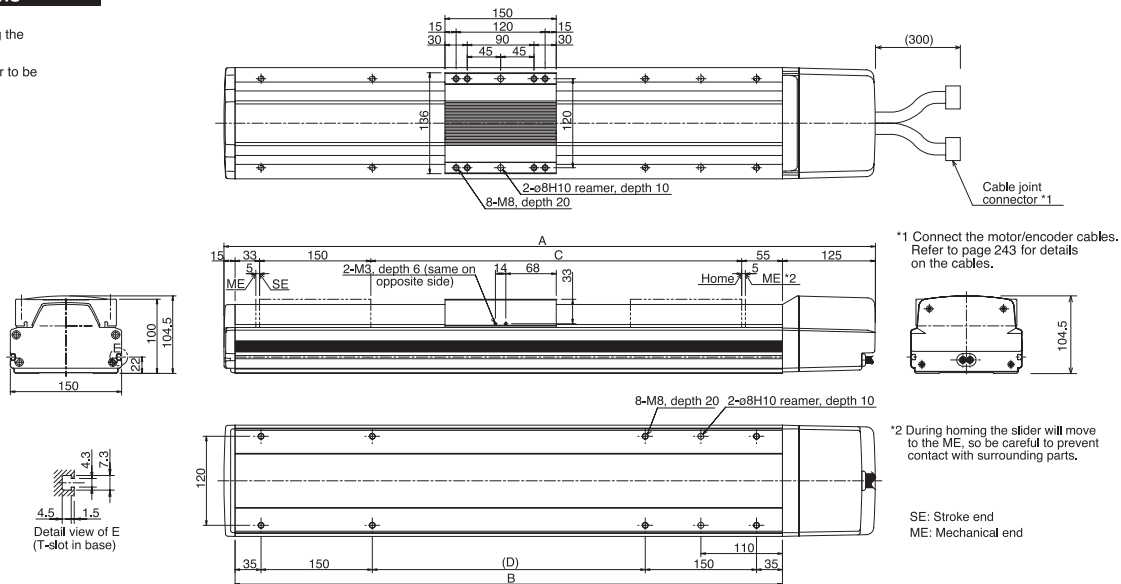
Models/Specifications

*1.0 G=9800mm/sec²

* Refer to page 10 for the details of common specification items.

Positioning repeatability (Note 4)	±0.02mm [±0.01mm]
Drive system (Note 5)	Ball screw ø20mm, rolled C10 [equivalent to rolled C5]
Lost motion (Note 6)	0.05mm or less [0.02mm or less]
Guide	integrated with base
Allowable static moment	Refer to page 242
Allowable dynamic moment	Ma: 104.9N•m Mb: 149.9N•m Mc: 124.5N•m
Overhang load length	Ma direction: 750mm or less, Mb/Mc directions: 750mm or less
Base	Material: Aluminum, with white alumite treatment
Cable length (Note 7)	N: None, S: 3m, M: 5m, X□□: Specified length
Ambient operating temperature/humidity	0 to 40°C, 85%RH max. (non-condensing)

* Note that changing the home direction will require the actuator to be returned to IAI for adjustment.



Stroke	100	(150)	200	(250)	300	(350)	400	(450)	500	(550)	600	(650)	700	(750)	800	(850)	900	(950)	1000	(1050)	1100	(1150)	1200
A	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578
B	338	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438
C	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
D	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
Weight (kg)	12.0	12.8	13.5	14.3	15.1	15.9	16.7	17.5	18.3	19.1	19.8	20.6	21.4	22.2	23.0	23.8	24.5	25.3	26.1	26.9	27.7	28.5	29.2
Maximum speed (mm/s)	Lead 40							2000									1660	1380		1170		1000	
	Lead 20							1000									830	690		585		500	

Applicable controller	Maximum number of controlled axes	Compatible encoder type	Program operation	Positioner operation	Pulse-train control	Supply voltage	Page
X-SEL	4 axes	Absolute/incremental	○	△	×	AC100/200V	
E-Con	1 axis	Absolute/incremental	×	○	×	AC100/200V	
P-Driver	1 axis	Incremental	×	×	○	AC100/200V	



(Note 1) The strokes that are set in increments of 50 mm are semi-standard settings.

(Note 2) A longer stroke will result in a lower maximum speed to prevent the ball screw from reaching a dangerous speed. (Refer to the above table for the maximum speed at a given stroke.)

(Note 3) Refer to page 40 for the relationship of acceleration and load capacity.

(Notes 4, 5, 6) The figures in brackets apply to the ISPA Series.

Other specification values apply to both the ISA and ISPA Series.

(Note 7) The maximum cable length is 30 m. Specify the desired length in meters (e.g., X08 = 8 m).

* Refer to page 9 for other points to note.