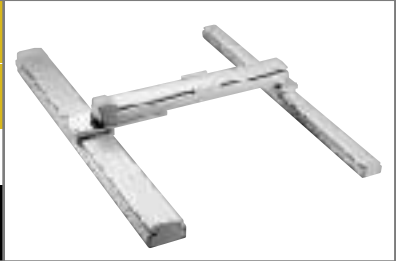


ICSA2-G2JH Cartesian Robot: X-Y 2-Axes Configuration, XYG (Y-Axis Gantry) Type

ICSPA2-G2JH Cartesian Robot: X-Y 2-Axes Configuration, XYG (Y-Axis Gantry) Type **High-Precision Specification**

Type: XYG type Stroke: X-axis: 1000-2500mm Y-axis: 800-1200mm Load capacity: 40kg

Model specification items: Series: ICSA2 - G2JH - A - 250AQLNM - 120AQLB - T1 - 5L - CT



* Refer to page 61 for the details of model specification items.

Models/Specifications

Model	Axis configuration		Encoder type	Motor output (W)	Lead (mm)	Stroke (mm) In increments of 100mm	Speed (mm/s) (Note 1)	Load capacity (Note 2)	Positioning repeatability (mm) (Note 3)
ICSA2 [ICSPA2] -G2JH-A-***-***-T1-△-CT	X-axis	ISA [ISPA] -LXUWX-A-400-20-***-T1	Absolute	400	20	1000 ~ 2500	1 ~ 1000	40	±0.02
	Y-axis	ISA [ISPA] MXMX-A-200-20-***-T1		200		800 ~ 1200			
ICSA2 [ICSPA2] -G2JH-I-***-***-T1-△-CT	X-axis	ISA [ISPA] -LXUWX-I-400-20-***-T1	Incremental	400		1000 ~ 2500			
	Y-axis	ISA [ISPA] MXMX-I-200-20-***-T1		200		800 ~ 1200			

* In the above model names, *** indicates the stroke/applicable options (stroke is specified in centimeters), and △ the cable length.

Options

Name	Code	Page	Remarks
AQ seal	AQ	→ P13	
Brake	B	→ P13	
Creep sensor	C	→ P13	
Home limit switch	L	→ P14	
Reverse homing specification	NM	→ P14	
Guide with ball-retaining mechanism	RT	→ P14	

Common Specifications

Drive system (Note 4)	Ball screw, rolled C10 [equivalent to rolled C5]
Backlash (Note 5)	0.05mm or less [0.02mm or less]
Guide	Integrated with base
Base	Material: Aluminum with white alumite treatment
Cable length (Note 6)	3L: 3m, 5L: 5m, □L : Length specification
Cable management	CT: Cable track

Load Capacity by Acceleration (kg)

Y-axis stroke (mm)	800	900	1000	1100	1200
Acceleration (G)					
0.3	40.0	40.0	40.0	40.0	40.0
0.4					
0.5					
0.6					
0.7					
0.8					
0.9					
1.0					

Maximum Speed by Stroke (mm/sec)

Stroke (mm)	800 ~ 1200	1000 ~ 1400	1500	1600	1700	1800	1900	2000	2500
X-axis	-	1000	950	830	740	650	590	540	300
Y-axis	1000	-	-	-	-	-	-	-	-

Applicable Controller Specifications

Applicable controller	Controller type	Model	Page
X-SEL	General-purpose type	XSEL-K-2-400□-200□-□-□□□-□-□	→ P241
	Compact type	XSEL-J-2-400□-200□-□-□□□-□-□	→ P241



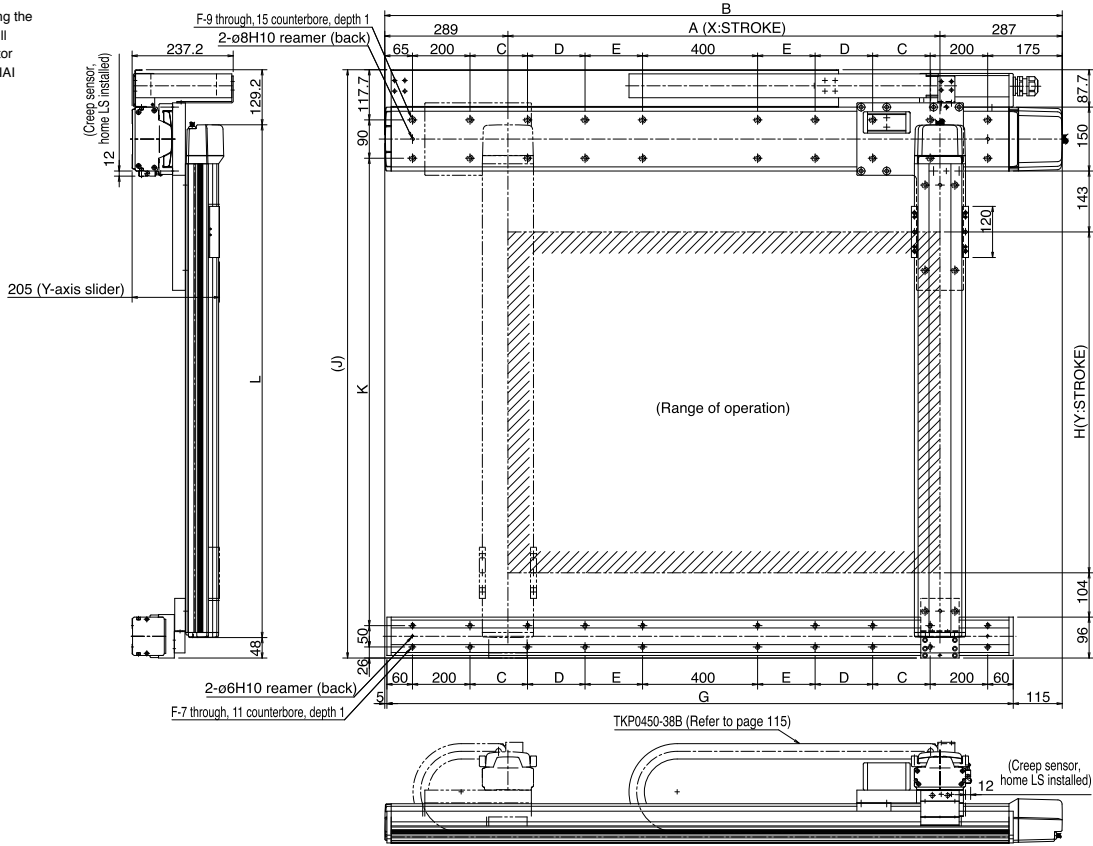
(Note 1) The maximum speed will vary depending on the stroke. (Refer to the table of maximum speed by stroke.)
 (Note 2) The load capacity assumes operation at the rated acceleration (0.3 G). The rated acceleration is the maximum specifiable acceleration for both the ICSA2 and ICSPA2.
 (Notes 3, 4, 5) The figures in brackets apply to the ICSPA2.
 (Note 6) The cable length measures from the X-axis connector box to the controller. The standard lengths are 3 m and 5 m, but other lengths can also be specified in meters up to 20 m (e.g., 10L = 10 m).

* Refer to page 59 for other points to note.

Cable Track Specification (Cable Management Code: CT)

Dimensions

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



Y-axis dimensions

H	800	900	1000	1100	1200
J	1380.7	1480.7	1580.7	1680.7	1780.7
K	1097	1197	1297	1397	1497
L	1203.5	1303.5	1403.5	1503.5	1603.5

* Shipment of a combined type requires frame (to be provided separately).

Detail view of Y-axis slider

X-axis dimensions

A	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
B	1590	1690	1790	1890	1990	2090	2190	2290	2390	2490	2590	2690	2790	2890	2990	3090
C	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025
D	0	0	0	0	0	0	0	425	475	525	575	625	675	725	775	825
E	0	0	0	0	0	0	0	0	0	0	425	475	525	575	625	675
F	12	12	12	12	12	12	12	16	16	16	16	20	20	20	20	20
G	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370	2470	2570	2670	2770	2870	2970