

# ICSA3-G2JHS3M

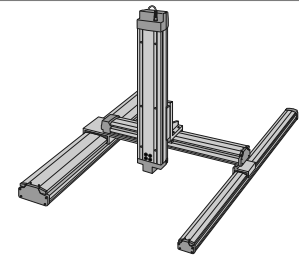
Cartesian Robot: X-Y-Z 3-Axes Configuration  
Z-Axis Slider Mount Type

# ICSPA3-G2JHS3M

Cartesian Robot: X-Y-Z 3-Axes Configuration  
Z-Axis Slider Mount Type High-Precision Specification

Type XYG + Z-Axis Slider Mount Type Stroke X-axis: 1000-2500mm Y-axis: 800-1200mm Z-axis: 100-500mm Load capacity 11.9kg - 7.8kg

Model specification items	Series	Type	Encoder type	X-axis stroke + options	Y-axis stroke + options	Z-axis stroke + options	Applicable controller	Cable length	Cable management
(Example)	ICSA3 (ICSPA3)	G2JHS3M	A	100AQL	100AQL	30BLNM	T1	5L	CT-SC



\* Refer to page 51 for the details of model specification items.

## Models/Specifications

\* [ ] is for the high-precision specification.

Encoder Type	XY-axis configuration direction	Z-axis type (*1)	Model
Absolute	-	M	ICSA3 [ICSPA3]-G2JHS3M-A-①-②-③-BNM-T1-④-⑤
Incremental	-	M	ICSA3 [ICSPA3]-G2JHS3M-A-①-②-③-BNM-T1-④-⑤

\*1: The load capacity and the maximum speed may vary depending on the type of Z-axis.  
Note: T1 in the above models will be T2 when operated with XSEL-P/Q type.

## Explanation of Model Code

Number	Contents	Specification
①	X-axis stroke (Note 1)	100 : 1000mm ~ 250 : 2500mm
②	Y-axis stroke (Note 1)	80 : 800mm ~ 120 : 1200mm
③	Z-axis stroke (Note 1)	10 : 100mm ~ 40 : 400mm
④	Cable length (Note 2)	3L : 3m 5L : 5m
⑤	Y-axis/ Z-axis cable management	CT-SC : Self-standing cable (*2)

\* The above explains the Models/Specifications chart to the left.

\*2 Only cable track can be specified for the Y-axis cable management with model # G2JHS3M.

## Options

Please add the option codes at the end of each stroke of the axis.  
When adding multiple options, put together in alphabetic order.

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

## Common Specifications

\* [ ] is for the high-precision specification.

Drive system	Ball screw, rolled C10 [equivalent to rolled C5]
Positioning repeatability	±0.02mm [±0.01mm]
Backlash	0.05mm or less [0.02mm or less]
Guide	Integrated with base
Base	Material: Aluminum with white alumite treatment
X-axis motor output / lead	400W / 20mm
Y-axis motor output / lead	200W / 20mm
Z-axis motor output / lead	200W / 10mm

## Applicable Controller Specifications

Refer to page 65 for System Configuration.

## Axis Configuration

\* [ ] is for the high-precision specification.

Axis Type	Model	Page
X-axis	ISA[ISPA]-LXUWX-□-400-20-(Stroke)-T1	→P30
Y-axis	ISA[ISPA]-MXMX-□-200-20-(Stroke)-T1	→P20
Z-axis	ISA[ISPA]-MZM-□-200-10-(Stroke)-T1-B-NM	→P24

\*In the above model name, □ indicates encoder type A (absolute) or I (incremental).

Caution

(Note 1) The stroke in the model is specified in cm (centimeters).  
 (Note 2) The cable length measures from the X-axis connector box to the controller. The standard lengths are 3m and 5m, but other lengths can also be specified in meters. The maximum length is 20m.  
 (Note 3) The rated acceleration is 0.3G. Increasing the acceleration will result in lower load capacity.  
 (Note 4) Please note that a longer stroke will result in a lower maximum speed.

\* For other points to note, please refer to page 49.

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## Load Capacity (kg) (Note3)

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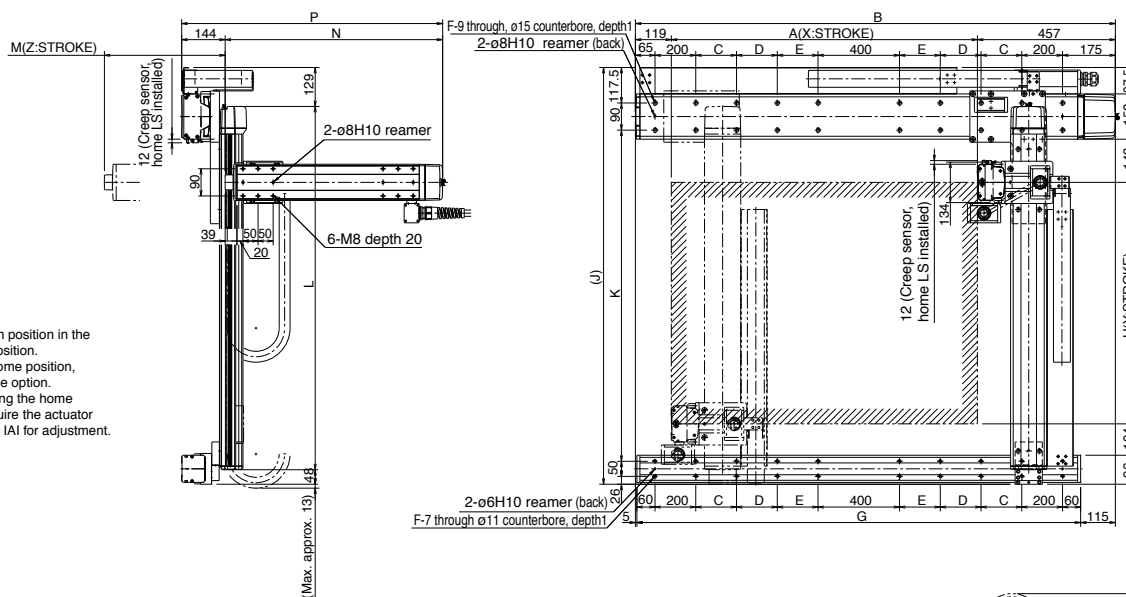
Z-axis stroke	Y-axis stroke				
	800	900	1000	1100	1200
100	11.9				
200	10.9				
300	9.9				
400	8.9				
500	7.8				

## Maximum Speed by Stroke (mm/sec) (Note4)

### G2JHS3M

	Stroke														
	100~400	800~900	1000~1200	1300~1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
X-axis	-	-	1000	-	950	830	740	650	590	540	490	440	410	370	300
Y-axis	-	1000	-	-	-	-	-	-	-	-	-	-	-	-	-
Z-axis	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-

## Dimensions



### X dimension

A	B	C	D	E	F	G
1014	1590	275	0	0	12	1470
1114	1690	325	0	0	12	1570
1214	1790	375	0	0	12	1670
1314	1890	425	0	0	12	1770
1414	1990	475	0	0	12	1870
1514	2090	525	0	0	12	1970
1614	2190	575	0	0	12	2070
1714	2290	200	425	0	16	2170
1814	2390	200	475	0	16	2270
1914	2490	200	525	0	16	2370
2014	2590	200	575	0	16	2470
2114	2690	200	200	425	20	2570
2214	2790	200	200	475	20	2670
2314	2890	200	200	525	20	2770
2414	2990	200	200	575	20	2870
2514	3090	200	200	625	20	2970

### Y dimension

H	J	K	L
800	1380.5	1097	1203.5
900	1480.5	1197	1303.5
1000	1580.5	1297	1403.5
1100	1680.5	1397	1503.5
1200	1780.5	1497	1603.5

### Z dimension

M	N(100W)	N(200W)	P(100W)	P(200W)	Q
100	420.5	434.5	564.5	578.5	(800)
200	520.5	534.5	664.5	678.5	(900)
300	620.5	634.5	764.5	778.5	(1000)
400	720.5	734.5	864.5	878.5	(1100)
500	820.5	834.5	964.5	978.5	(1200)

