

ICSA2-ZHH

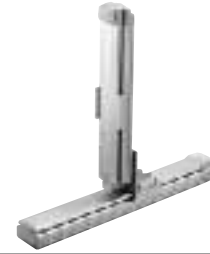
Cartesian Robot: X-Z 2-Axes Configuration, XZ (Z-Axis Base Mount) Type

ICSPA2-ZHH

Cartesian Robot: X-Z 2-Axes Configuration, XZ (Z-Axis Base Mount) Type
High-Precision Specification

Type XZ type Stroke X-axis: 1000-2500mm Z-axis: 100-500mm Load capacity 22kg ~ 10kg

Model specification items Series Type Encoder type X-axis stroke + options Z-axis stroke + options Applicable controller Cable length Cable management
ICSA2-ZHH-A-250AQLNM-50AQL-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] -ZHH-A-***-***B-T1-Δ-CT	X-axis	ISA [ISPA] -LXM-A-400-20-***-T1	Absolute	400	20	1000 ~ 2500	1 ~ 1000	22 ~ 10	±0.02 [±0.01]
	Z-axis	ISA [ISPA] -LZM-A-400-10-***-T1-B			10	100 ~ 500	1 ~ 500		
ICSA2 [ICSPA2] -ZHH-I-***-***B-T1-Δ-CT	X-axis	ISA [ISPA] -LXM-I-400-20-***-T1	Incremental		20	1000 ~ 2500	1 ~ 1000		
	Z-axis	ISA [ISPA] -LZM-I-400-10-***-T1-B			10	100 ~ 500	1 ~ 500		

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

Options

Name	Code	Page	Remarks
AQ seal	AQ	→ P13	
Brake	B	→ P13	Standard equipment on Z-axis
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)

Z-axis stroke (mm)	100	200	300	400	500
Acceleration (G)					
0.3	22.0	18.0	16.0	12.0	10.0
0.4					
0.5					
0.6					
0.7					
0.8					
0.9					
1.0					

Maximum Speed by Stroke (mm/sec)

Stroke (mm)	100 ~ 500	1000 ~ 1400	1500	1600	1700	1800	1900	2000	2500
X-axis	-	1000	950	830	740	650	590	540	340
Z-axis	500	-	-	-	-	-	-	-	-

Applicable Controller Specifications

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

Caution

(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.

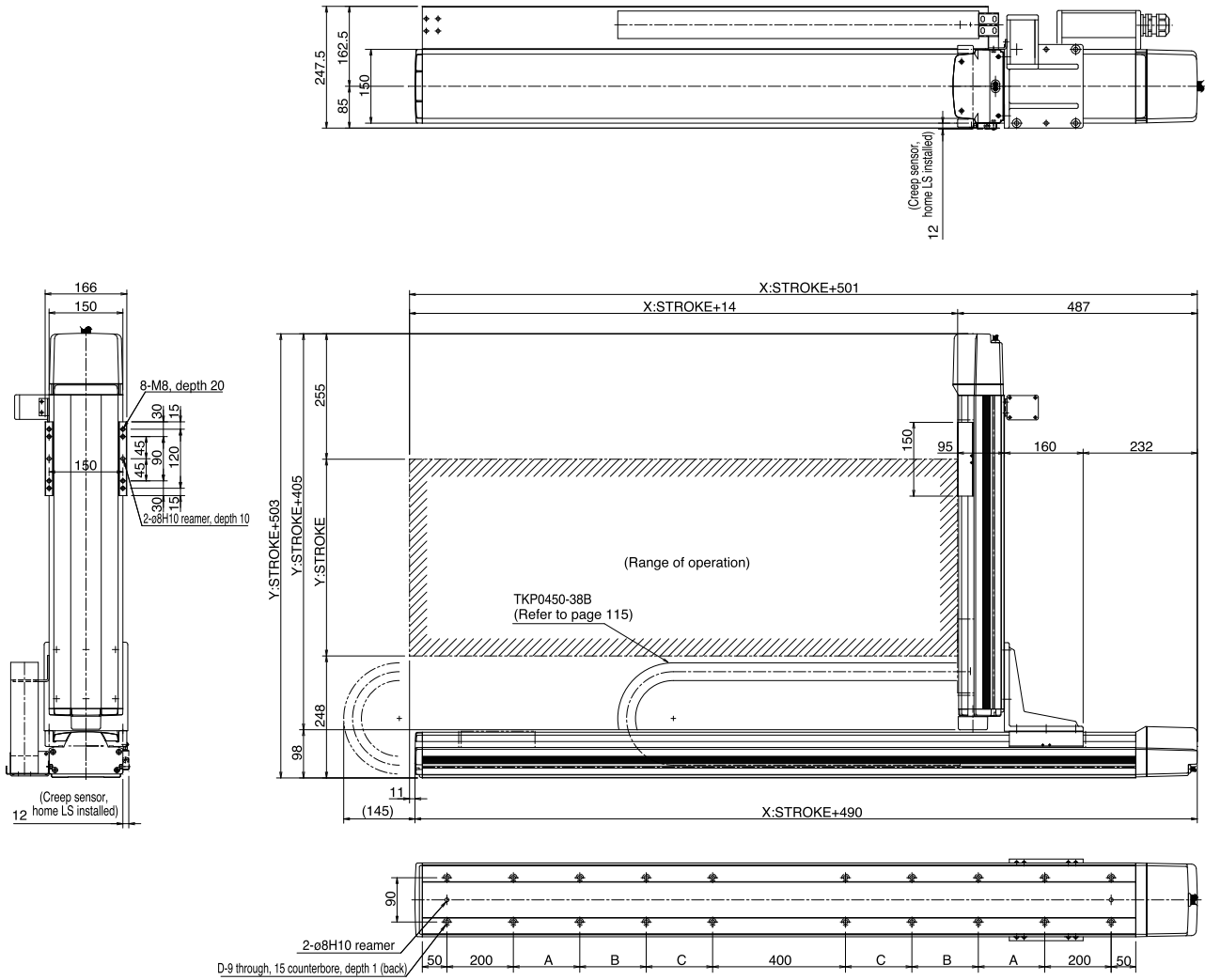
(Notes 3, 4, 5) The figures in brackets apply to the ICSPA2.

(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 49 for other points to note.

Self-standing Cable Specification (Cable Management Code: CT)

Dimensions



X stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
A	225	275	325	375	425	475	525	575	200	200	200	200	200	200	200	200
B	0	0	0	0	0	0	0	0	425	475	525	575	200	200	200	200
C	0	0	0	0	0	0	0	0	0	0	0	0	425	475	525	575
D	12	12	12	12	12	12	12	12	16	16	16	16	20	20	20	20