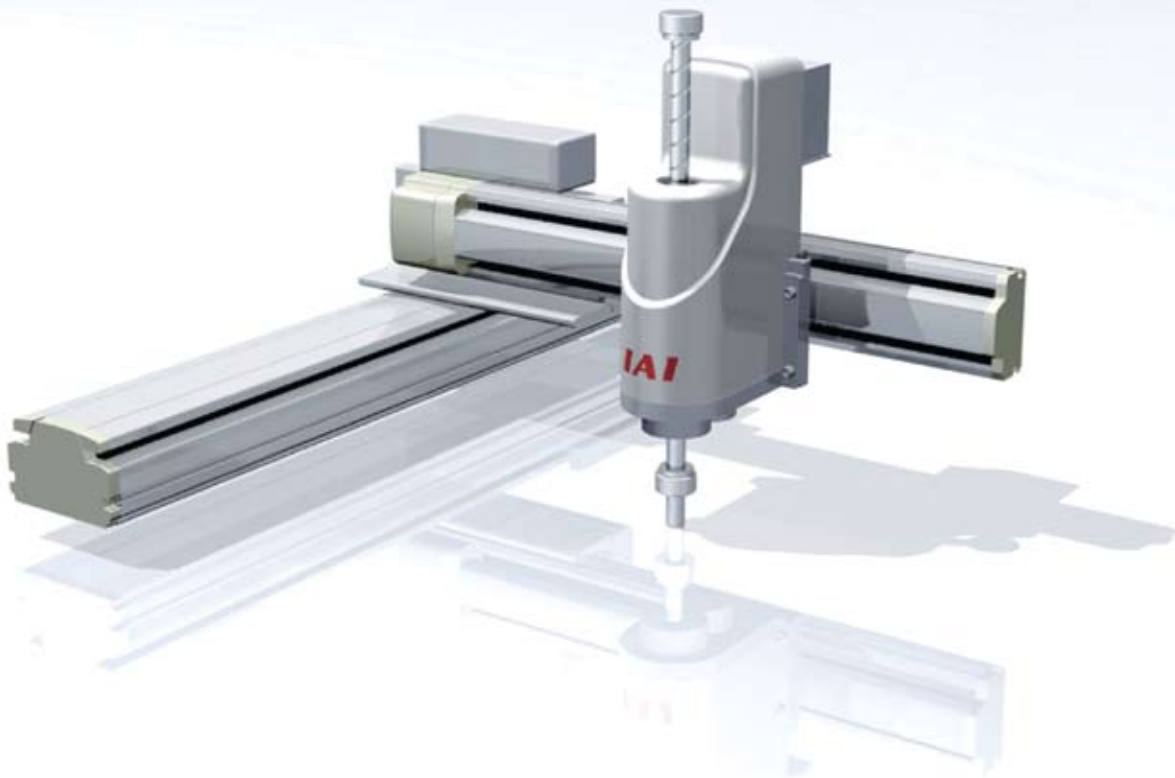


Vertical/Rotation **ZR-s/M**



ZR Series

ZR-S (Small Type) - **ZR-M** (Medium Type)

High Speed Vertical/Rotation Electric Actuator



- Max Stroke: 200mm / 360°
- Max Payload: 6kg
- Controller: XSEL
- Max Speed: 1256mm/s - 2200°/s
- Max Positions: 20,000 points
- Controller Voltage: 200V

ZR	Series	Type	Encoder type	Z-Axis Motor	Z-Axis Lead	Stroke	Applicable controller	Cable length	Options	
S	Small Type (Z-Axis 100W / R-Axis 100W)	A	Absolute	100 100W (S Type)	16 16mm (S Type)	150 150mm (S Type)	T2	XEL-P/Q	N No Cable	B Brake (Z-Axis)
M	Medium Type (Z-Axis 200W / R-Axis 200W)	I	Incremental	200 200W (M Type)	20 20mm (M Type)	200 200mm (M Type)			S 3m	L Limit switch (Rotation)
									M 5m	
									X□□ Specified Length	

1. Add the ZR Unit to a 2-axis System to Create a High Speed 4-axis System

Because of the compact construction of the ZR unit, it is possible to add the ZR unit as a standard configuration to the ICSA/ICSPA series actuators. Take your manufacturing to higher levels of efficiency and productivity.

2. High Speed Rotation

The high speed R-axis is capable of up to 2200°/s and will cut your cycle time, improving ROI.

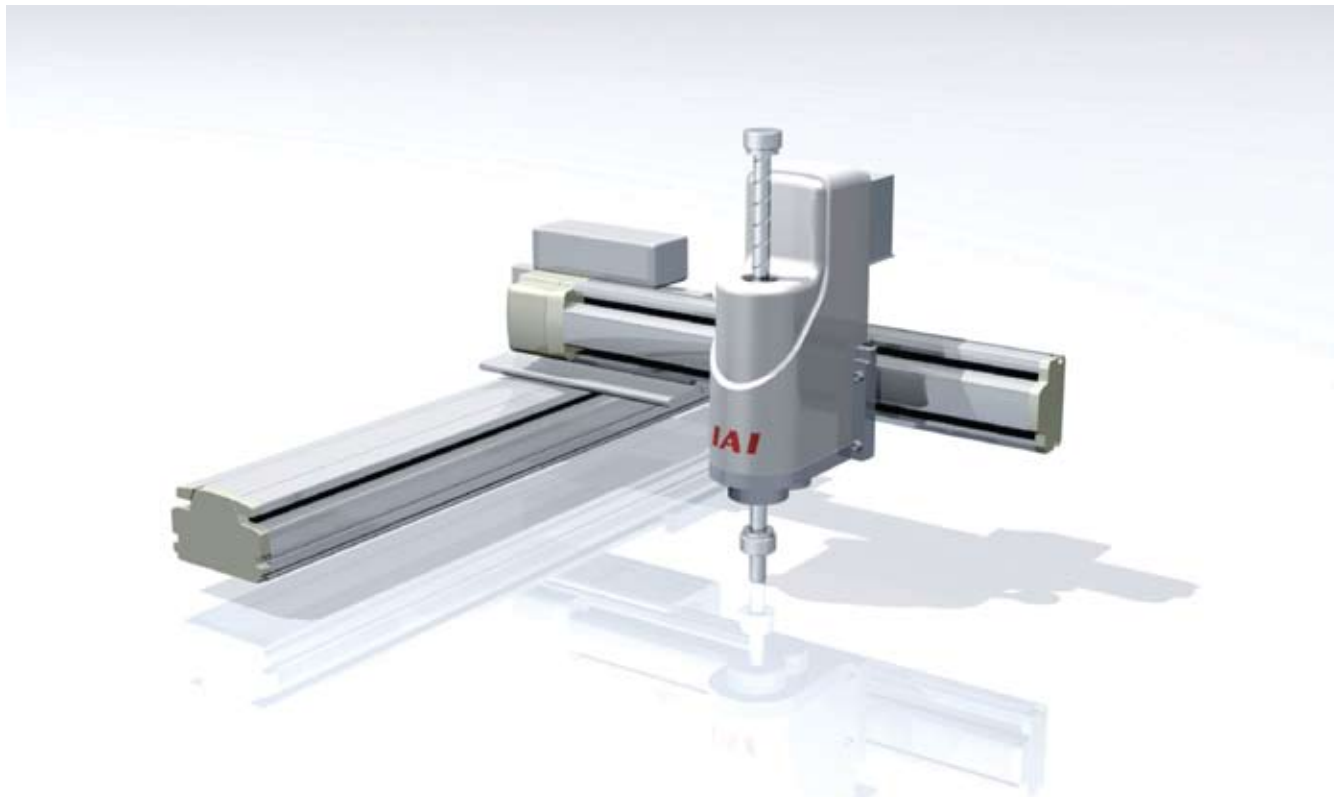
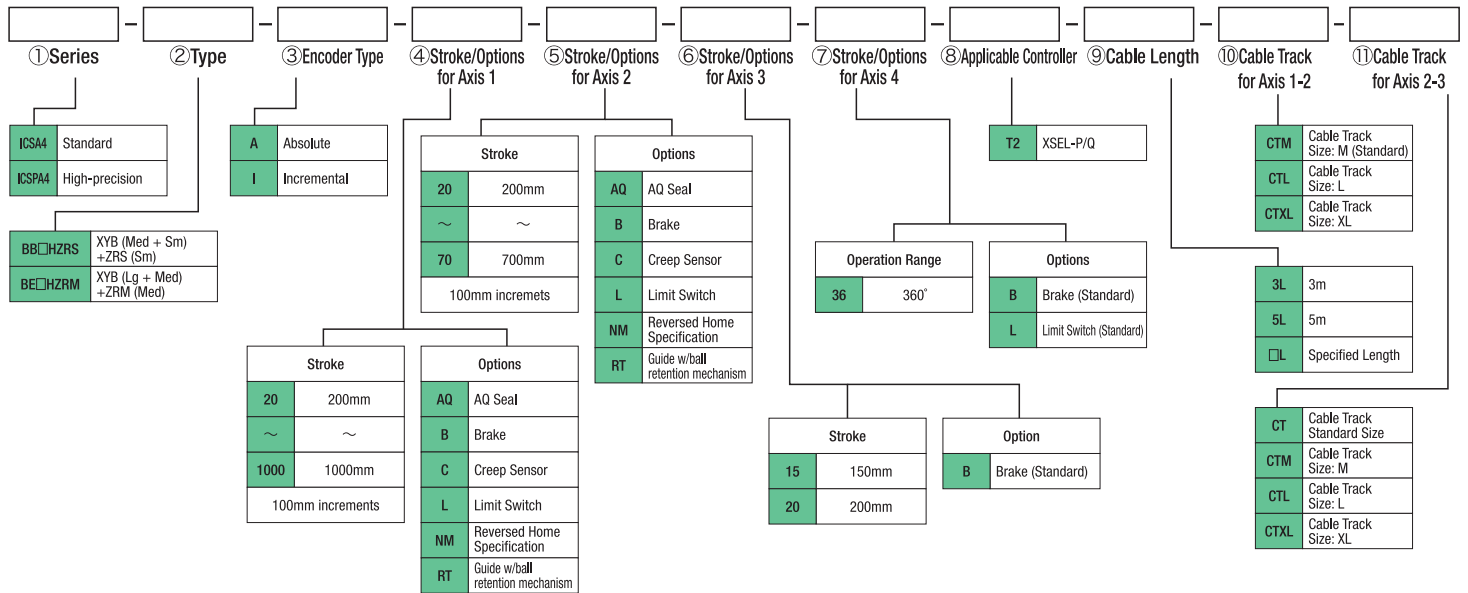
3. 2 Sizes to Fit Your Application

Select the small or medium type ZR unit with either the absolute or incremental encoder.

Specifications		ZR-S (Small Type)	ZR-M (Medium Type)
Motor Output	Z-Axis (Vertical) (W)	100	200
	R-Axis (Rotation) (W)	100	200
Work Envelope	Z-Axis (Vertical) (mm)	150	200
	R-Axis (Rotation) (Deg)	±360°	±360°
Maximum Operating Speed	Z-Axis (Vertical) (mm/s)	1005	1256
	R-Axis (Rotation) (Deg/s)	2200°	2200°
Load Capacity	Rated (kg)	1	2
	Max (kg)	3	6

ICSA4/ICSPA4 Series

XY 2-axis combination + ZR (Z-axis and rotation axis)



ZR-S

www.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru
Vertical/Rotational Axis Integrated Type, Compact type, 100W



Model	ZR	-	S	-	[]	-	100	-	16	-	150	-	T2	-	[]	-	B	-	L
	Series	-	Type	-	Encoder Type	-	Motor Type	-	Z-axis lead	-	Z-axis stroke	-	Applicable Controller	-	Cable Length	-	Options		
	A: Absolute		100:100W		16:16mm		150:150mm		T2:XSEL		N: None		B: Brake (standard feature)		L: Limit switch (standard feature on rotational axis)				
	I: Incremental										S: 3m				M: 5m				
											X□□: Specified Length								

Models/Specifications

Model	Axis Configuration	Encoder Type	Motor Capacity (W)	Operation Range	Positioning Repeatability (mm)	Maximum Operating Speed (note 1)	Loading Capacity (kg)		Vertical Axis Push force (N)		Rotational Axis Allowable load	
							Rated (note 2)	Max (note 2)	Push motion operation (note 3)	Max thrust (note 3)	Allowable inertial moment (kg·m ²)(note 4)	Allowable torque (N·m)
ZR-S-①-100-16-150-T2-②-B-L	Vertical axis	Absolute	100	150mm	±0.010	1005mm/s	1	3	74.8	107	0.015	1.9
	Rotational axis	Incremental	100	±360°	±0.005	2200°/s						

* In the above model name, ① indicates the encoder type, while ② indicates the cable length.

Options

Name	Option code	Remarks
Brake	B	Standard feature on vertical axis/rotational axis
Home Limit Switch	L	Standard feature on rotational axis

* The following adjustment jig (sold separately) is required for the absolute specification. Absolute reset adjustment jig (model: JG-ZRS)

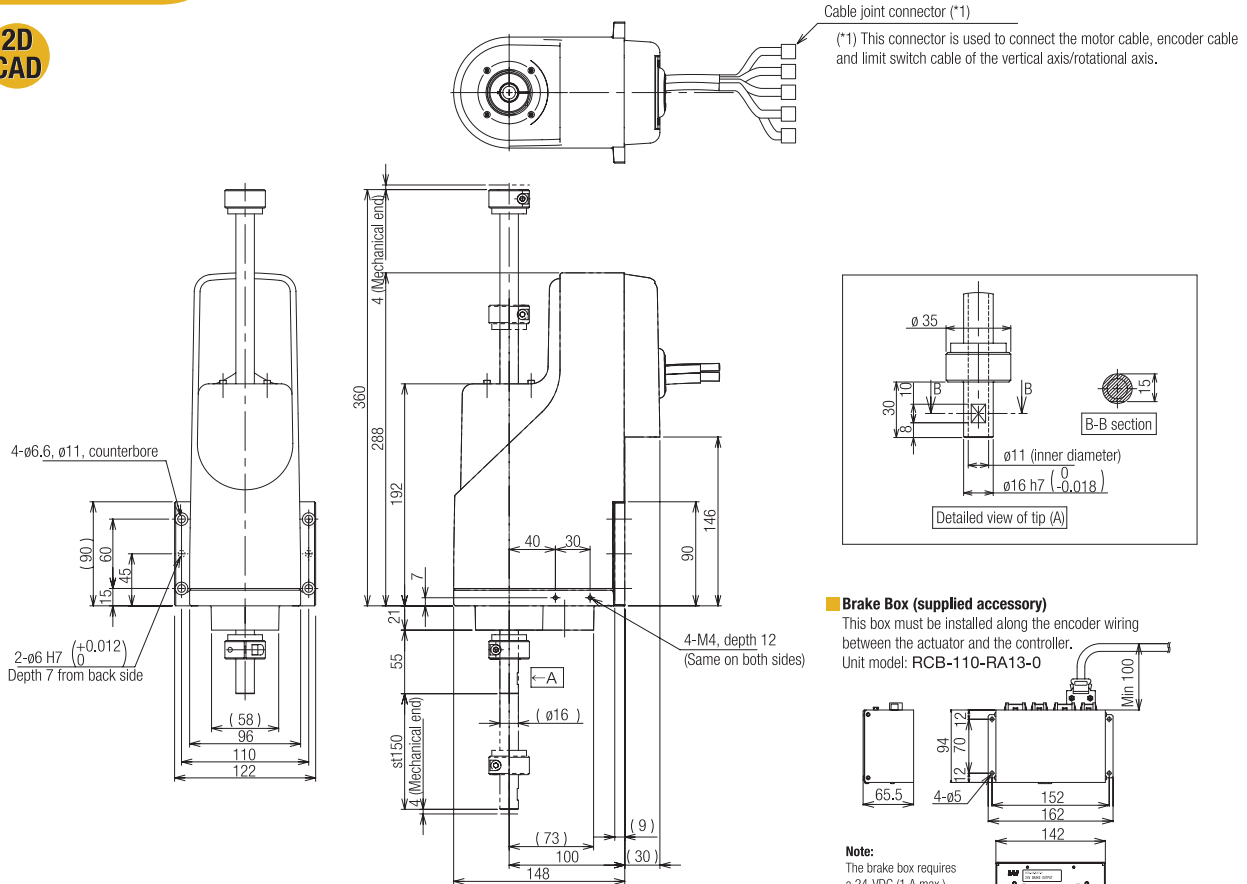
Actuator Specifications

Encoder type	Absolute / Incremental
Actuator weight	5.5kg
Applicable controller	T2 : XSEL-P/Q
Cable Length (note 5)	N : No cable, S : 3m, M : 5m, X□□ : Specified length
Ambient operating temp/humidity	Temperature 0 to 40°C, Humidity 20 to 85% RH max. (non-condensing)

Dimensions

CAD drawings can be downloaded from the website

2D CAD



Note:
When this unit is combined with a cartesian robot, reduce the speed and acceleration if the actuator is to be moved with the vertical axis lowered.

Applicable Controller Specifications

Applicable Controller	Max number of controlled axes	Connectable encoder type	Operating method	Power-supply voltage
X-SEL-P/Q	6 axes	Absolute/incremental	Program	Single-phase/3-phase 200 VAC



(Note 1) Based on PTP command operation.
(Note 2) The rated loading capacity assumes operation at an acceleration/deceleration of 0.3G, while the maximum loading capacity assumes operation at an acceleration/deceleration of 0.1G.
(Note 3) The push force of the vertical axis represents the force that pushes an object at the tip of the vertical axis. The value indicated under "Push-motion operation" corresponds to the maximum push force when a push command is executed in the program. The value indicated under "Maximum thrust" corresponds to the maximum thrust achieved during normal positioning operation. If you are performing push-motion operation, be sure to use a push command in the program.
(Note 4) Allowable inertial moment converted to an equivalent value at the center of the rotational axis. The actual value may be lower depending on the conditions of use.
(Note 5) The maximum cable length is 30m. Specify a desired length in meters. (Example X08 = 8m)

ZR-M

www.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru

Vertical/Rotational Axis Integrated Type, Medium size type, 200W



Model	ZR	- M	-	200	- 20	- 200	- T2	-	B	- L
Series	Type	Encoder Type	Motor Type	Z-axis lead	Z-axis stroke	Applicable Controller	Cable Length	Options		
A: Absolute I: Incremental	200:200W	20:20mm	200:200mm	T2:XSEL-P/Q	N: None S: 3m M: 5m X□□: Specified Length	N: None S: 3m M: 5m X□□: Specified Length	B: Brake (standard feature) L: Limit switch (standard feature on rotational axis)			

Models/Specifications

Model	Axis Configuration	Encoder Type	Motor Capacity (W)	Operation Range	Positioning Repeatability (mm)	Maximum Operating Speed (note 1)	Loading Capacity (kg)		Vertical Axis Push force (N)		Rotational Axis Allowable load	
							Rated (note 2)	Max (note 2)	Push motion operation (note 3)	Max thrust (note 3)	Allowable inertial moment (kg·m ²) (note 4)	Allowable torque (N·m)
ZR-M-①-200-20-200-T2-②-B-L	Vertical axis Rotational axis	Absolute Incremental	200	200mm	±0.010	1256mm/s	2	6	120	171	0.03	3.8
			200	±360°	±0.005	2200°/s						

* In the above model name, ① indicates the encoder type, while ② indicates the cable length.

Options

Name	Option code	Remarks
Brake	B	Standard feature on vertical axis/rotational axis
Home Limit Switch	L	Standard feature on rotational axis

* The following adjustment jig (sold separately) is required for the absolute specification. Absolute reset adjustment jig (model: JG-ZRM)

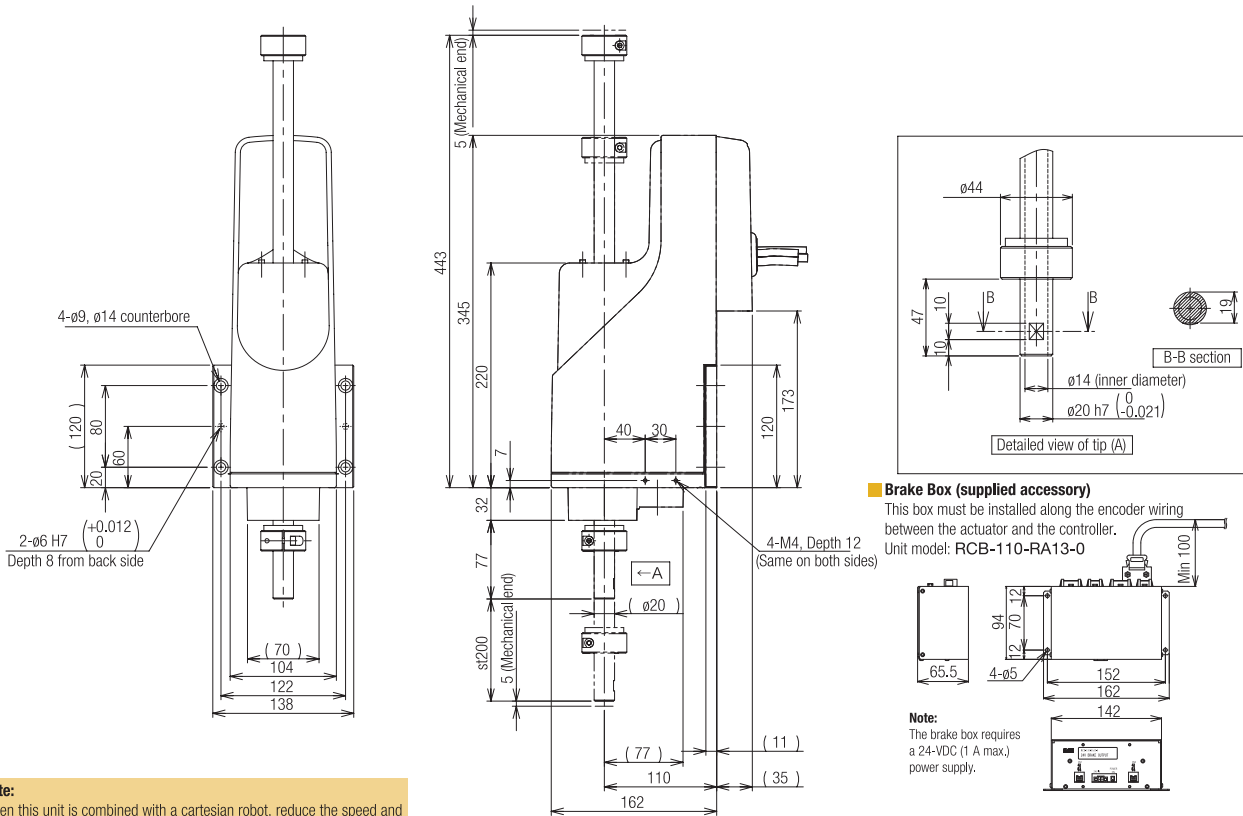
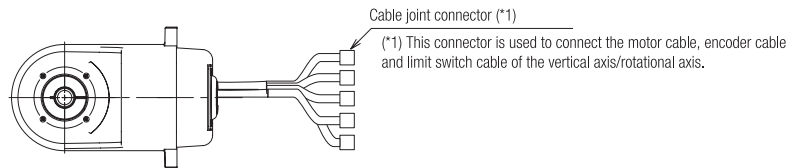
Actuator Specifications

Encoder type	Absolute / Incremental
Actuator weight	8kg
Applicable controller	T2 : XSEL-P/Q
Cable Length (note 5)	N : No cable, S : 3m, M : 5m, X□□ : Specified length
Ambient operating temp/humidity	Temperature 0 to 40°C, Humidity 20 to 85% RH max. (non-condensing)

Dimensions

CAD drawings can be downloaded from the website

2D CAD



Note: When this unit is combined with a cartesian robot, reduce the speed and acceleration if the actuator is to be moved with the vertical axis lowered.

Applicable Controller Specifications

Applicable Controller	Max number of controlled axes	Connectable encoder type	Operating method	Power-supply voltage
X-SEL-P/Q	6 axes	Absolute/incremental	Program	Single-phase/3-phase 200 VAC



(Note 1) Based on PTP command operation.
 (Note 2) The rated loading capacity assumes operation at an acceleration/deceleration of 0.3G, while the maximum loading capacity assumes operation at an acceleration/deceleration of 0.1G.
 (Note 3) The push force of the vertical axis represents the force that pushes an object at the tip of the vertical axis. The value indicated under "Push-motion operation" corresponds to the maximum push force when a push command is executed in the program. The value indicated under "Maximum thrust" corresponds to the maximum thrust achieved during normal positioning operation. If you are performing push-motion operation, be sure to use a push command in the program.
 (Note 4) Allowable inertial moment converted to an equivalent value at the center of the rotational axis. The actual value may be lower depending on the conditions of use.
 (Note 5) The maximum cable length is 30m. Specify a desired length in meters. (Example X08 = 8m)

ICSA4-BB□HZRS

ICSPA4-BB□HZRS

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Cartesian Robot 4-axis Combination of XY and ZR Unit
Cartesian Robot 4-axis Combination of XY and ZR Unit

High-precision Specification



Model	□ - BB□HZRS - □ - □ - □ - □ - □ - □ - □ - □ - □ - □ - □ - □
Series	Refer to model table below
Type	Refer to model table below
Encoder	A: Absolute I: Incremental
Stroke/options for axis 1	20:200mm S 80:800mm (100mm steps)
Stroke/options for axis 2	10:100mm S 40:400mm (100mm steps)
Stroke/options for axis 3	15:150mm S Refer to options table below
Operation range/Options for axis 4	36:360 Deg T2:XSEL-P/Q Refer to options table below
Controller	T2:XSEL-P/Q
Cable Length	3L: 3m 5L: 5m □: Specified Length
Cable wiring for Y-axis	Refer to Explanation of Symbols in Model Names below
Cable wiring for Z-axis	Refer to Explanation of Symbols in Model Names below

Model

* Models of high-precision specification are shown in [].

Encoder Model	XY combination direction (*1)	Z-axis Type	Model
Absolute	1	H	ICSA4 [ICSPA4]-BB1HZRS-A- <u>1</u> - <u>2</u> - <u>3</u> B- <u>4</u> BL- <u>5</u> - <u>6</u> - <u>7</u> - <u>8</u>
	2	H	ICSA4 [ICSPA4]-BB2HZRS-A- <u>1</u> - <u>2</u> - <u>3</u> B- <u>4</u> BL- <u>5</u> - <u>6</u> - <u>7</u> - <u>8</u>
	3	H	ICSA4 [ICSPA4]-BB3HZRS-A- <u>1</u> - <u>2</u> - <u>3</u> B- <u>4</u> BL- <u>5</u> - <u>6</u> - <u>7</u> - <u>8</u>
	4	H	ICSA4 [ICSPA4]-BB4HZRS-A- <u>1</u> - <u>2</u> - <u>3</u> B- <u>4</u> BL- <u>5</u> - <u>6</u> - <u>7</u> - <u>8</u>
Incremental	1	H	ICSA4 [ICSPA4]-BB1HZRS-I- <u>1</u> - <u>2</u> - <u>3</u> B- <u>4</u> BL- <u>5</u> - <u>6</u> - <u>7</u> - <u>8</u>
	2	H	ICSA4 [ICSPA4]-BB2HZRS-I- <u>1</u> - <u>2</u> - <u>3</u> B- <u>4</u> BL- <u>5</u> - <u>6</u> - <u>7</u> - <u>8</u>
	3	H	ICSA4 [ICSPA4]-BB3HZRS-I- <u>1</u> - <u>2</u> - <u>3</u> B- <u>4</u> BL- <u>5</u> - <u>6</u> - <u>7</u> - <u>8</u>
	4	H	ICSA4 [ICSPA4]-BB4HZRS-I- <u>1</u> - <u>2</u> - <u>3</u> B- <u>4</u> BL- <u>5</u> - <u>6</u> - <u>7</u> - <u>8</u>

*1 See the figure below for the XY combination directions.

* For the descriptions of 1 to 8 in the above model names, refer to the table provided in the top right.

* The following adjustment jig (sold separately) is required for models of absolute specification:
Absolute reset adjustment jig (model: JG-ZRS)

Explanation of Symbols in Model Names

No.	Description	Value
①	X-axis stroke (Note 1)	20 : 200mm S 80 : 800mm
②	Y-axis stroke (Note 1)	10 : 100mm S 40 : 400mm
③	Z-axis stroke (Note 1)	15 : 150mm
④	R-axis Operation Range	36 : 360deg
⑤	Applicable Controllers	T2 : XSEL-P/Q
⑥	Cable Length (Note 2)	3L : 3m 5L : 5m
⑦	Y-axis Cable Wiring	CTM: Cable track size M (Standard) CTL: Cable track size L CTXL: Cable track size XL
⑧	Z-axis Cable Wiring	CT: Cable Track (Standard) CTM: Cable track size M CTL: Cable track size L CTXL: Cable track size XL

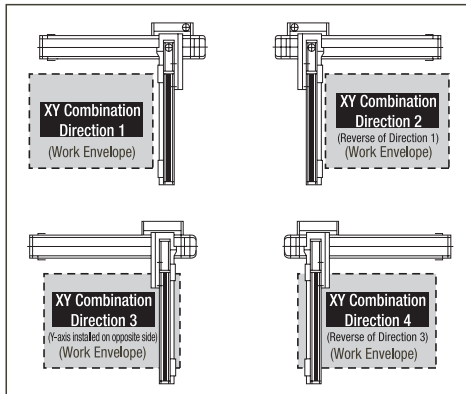
*The above table describes 1 to 8 in the model names shown to the left.

Options

Enter the applicable option symbol after the stroke of each axis. If multiple options are selected, enter them in alphabetical order.

Name	Model
AQ Seal	AQ
Brake	B
Creep Sensor	C
Home Limit Switch	L
Reversed Home Specification	NM
Guide with ball retention mechanism	RT

XY Combination Directions



Common Specifications

* Models of high-precision specification are shown in [].

Drive Method	Ball screw, rolled C10 [rolled C5 or equivalent]
Positioning Repeatability	±0.02mm [±0.01mm]
Lost Motion	0.05mm max [0.02mm max]
Guide	Base integrated type
Base	Material: Aluminum with white alumite treatment
X-axis motor output/lead	100W/20mm
Y-axis motor output/lead	60W/16mm
Z-axis motor output/lead	100W/16mm
Motor output of rotational axis	100W
Allowable inertial moment of rotational axis	0.015kg · m ²
Allowable torque of rotational axis	1.9N · m

Axis Configuration

* Models of high-precision specification are shown in [].

Axis Name	Axis Name
X-axis	ISA [SPA]-MXM-□ - 100-20-(Stroke)
Y-axis	ISA [SPA]-SYM-□ - 60-16-(Stroke)
Z-axis/rotational-axis	ZR-S-□-100-16-150-T2-#-B-L

* In the □ in the above model names, enter A (absolute) or I (incremental) as the applicable encoder type.

- Cable length



Caution

(Note 1) Strokes are expressed in cm (centimeters) in the model names.

(Note 2) The cable length is measured from the X-axis connector box to the controller.

Although the standard length is 3m or 5m, other lengths can also be specified in m (Meters). Cable lengths of up to 20 meters are supported.

(Note 3) The actual value may be lower depending on the conditions of use.

(Note 4) The rated acceleration is 0.3G. When the acceleration is increased, the loading capacity decreases.

(Note 5) Take note that the maximum speed drops when the stroke becomes longer. If the robot is to be moved with the vertical axis lowered, raise the speed and acceleration.

Loading Capacities (kg) (Note 4)

BB □ HZRS

		Y-axis Stroke			
		100	200	300	400
Z-axis Stroke	150	Rated: 1.0 kg (at acceleration/deceleration of 0.3 G) Maximum: 3.0 kg (at acceleration /deceleration of 0.1 G)			

Maximum Speeds by Stroke (mm/s) (Note 5)

BB □ HZRS

	Stroke							
	100	200	300	400	500	600	700	800
X-axis	1000							795
Y-axis	800							

Stroke : 150mm	
Z-axis	1005mm/s
Stroke: ±360°	
Rotational Axis	2200°/s

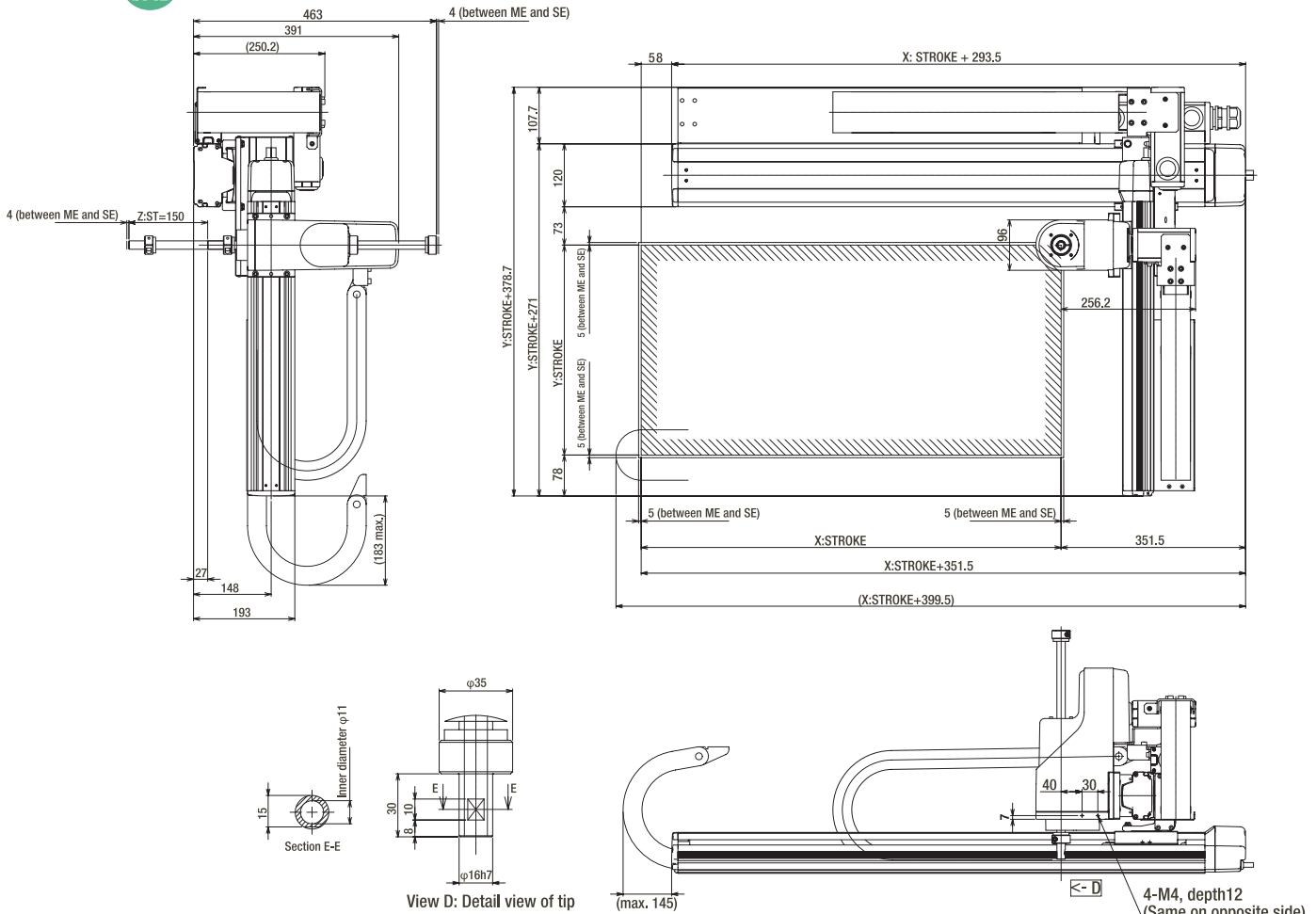
Dimensions

* The figure below is the figure for XY combination direction 1.

CAD drawings can be downloaded from the website



* In the figure below, the cable track dimensions is CTM for the Y-axis and CT for the ZR-axes. (CT cannot be used for the Y-axis)



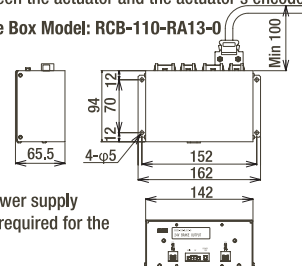
* The combination position shown in the drawing defines the home position. If you want to change the home position, specify the option "NM." Take note that to change the home position after the delivery, the robot must be returned for adjustment.

X Stroke	200	300	400	500	600	700	800
A	104	204	104	204	104	204	104
B	1	1	2	2	3	3	4
C	6	6	8	8	10	10	12

Brake Box (Accessory)

This device must be installed along the cable wired between the actuator and the actuator's encoder.

Brake Box Model: RCB-110-RA13-0



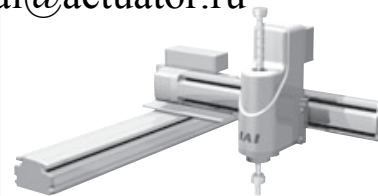
Note
A 24-VDC power supply (1A max.) is required for the brake box.

ICSA4-BE HZRM

ICSPA4-BE HZRM

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Cartesian Robot 4-axis Combination of X/Y and ZR Unit
Cartesian Robot 4-axis Combination of X/Y and ZR Unit



High-precision Specification

Model	Series	Type	Encoder	Stroke/options for axis 1	Stroke/options for axis 2	Stroke/options for axis 3	Operation range/Options for axis 4	Controller	Cable Length	Cable wiring for Y-axis	Cable wiring for Z-axis
ICSA4: Standard 4-axis Specification ICSPA4: High-precision 4-axis Specification	Refer to model table below	Refer to model table below	A: Absolute I: Incremental	30:300mm 100:1000mm (100mm steps)	20:200mm 70:700mm (100mm steps)	20:200mm	36:360 Deg Refer to options table below	T2: XSEL-P/Q Refer to options table below	3L: 3m 5L: 5m	Refer to Explanation of Symbols in Model Names below	Refer to Explanation of Symbols in Model Names below

Model

* Models of high-precision specification are shown in [].

Encoder Model	XY combination direction (*1)	Z-axis Type	Model
Absolute	1	H	ICSA4 [ICSPA4]-BE1HZRM-A-[1]-[2]-[3] B-[4] BL-[5]-[6]-[7]-[8]
	2	H	ICSA4 [ICSPA4]-BE2HZRM-A-[1]-[2]-[3] B-[4] BL-[5]-[6]-[7]-[8]
	3	H	ICSA4 [ICSPA4]-BE3HZRM-A-[1]-[2]-[3] B-[4] BL-[5]-[6]-[7]-[8]
	4	H	ICSA4 [ICSPA4]-BE4HZRM-A-[1]-[2]-[3] B-[4] BL-[5]-[6]-[7]-[8]
Incremental	1	H	ICSA4 [ICSPA4]-BE1HZRM-I-[1]-[2]-[3] B-[4] BL-[5]-[6]-[7]-[8]
	2	H	ICSA4 [ICSPA4]-BE2HZRM-I-[1]-[2]-[3] B-[4] BL-[5]-[6]-[7]-[8]
	3	H	ICSA4 [ICSPA4]-BE3HZRM-I-[1]-[2]-[3] B-[4] BL-[5]-[6]-[7]-[8]
	4	H	ICSA4 [ICSPA4]-BE4HZRM-I-[1]-[2]-[3] B-[4] BL-[5]-[6]-[7]-[8]

*1 See the figure below for the XY combination directions.

* For the descriptions of [1] to [8] in the above model names, refer to the table provided in the top right.

* The following adjustment jig (sold separately) is required for models of absolute specification:
Absolute reset adjustment jig (model: JG-ZRM)

Explanation of Symbols in Model Names

No.	Description	Indication
[1]	X-axis stroke (Note 1)	30 : 300mm 100 : 1000mm
[2]	Y-axis stroke (Note 1)	20 : 200mm 70 : 700mm
[3]	Z-axis stroke (Note 1)	20 : 200mm
[4]	R-axis Operation Range	36 : 360deg
[5]	Applicable Controllers	T2 : XSEL-P/Q
[6]	Cable Length (Note 2)	3L : 3m 5L : 5m
[7]	Y-axis Cable Wiring	CTM: Cable track size M (Standard) CTL: Cable track size L CTXL: Cable track size XL
[8]	Z-axis Cable Wiring	CT: Cable Track (Standard) CTM: Cable track size M CTL: Cable track size L CTXL: Cable track size XL

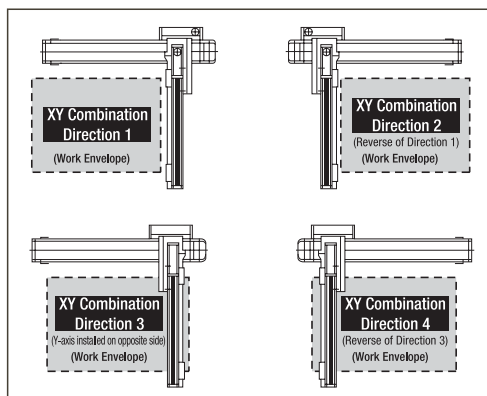
*The above table describes [1] to [8] in the model names shown to the left.

Options

Enter the applicable option symbol after the stroke of each axis.
If multiple options are selected, enter them in alphabetical order.

Name	Model
AQ Seal	AQ
Brake	B
Creep Sensor	C
Home Limit Switch	L
Reversed Home Specification	NM
Guide with ball retention mechanism	RT

XY Combination Directions



Common Specifications

* Models of high-precision specification are shown in [].

Drive Method	Ball screw, rolled C10 [rolled C5 or equivalent]
Positioning Repeatability	±0.02mm [±0.01mm]
Lost Motion	0.05mm max [0.02mm max]
Guide	Base integrated type
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/20mm
Motor output of rotational axis	200W
Allowable inertial moment of rotational axis	0.03kg · m ²
Allowable torque of rotational axis	3.8N · m

Axis Configuration

* Models of high-precision specification are shown in [].

Axis Name	Axis Name
X-axis	ISA [ISPA]-LXM- [] - 400-20-(Stroke)
Y-axis	ISA [ISPA]-MYM- [] -200-20-(Stroke)
Z-axis/rotational-axis	ZR-M-[]-200-20-200-T2-#-B-L

* In the [] in the above model names, enter A (absolute) or I (incremental) as the applicable encoder type.
- Cable length



Caution

(Note 1) Strokes are expressed in cm (centimeters) in the model names.
(Note 2) The cable length is measured from the X-axis connector box to the controller. Although the standard length is 3m or 5m, other lengths can also be specified in m (Meters). Cable lengths of up to 20 meters are supported.
(Note 3) The actual value may be lower depending on the conditions of use.
(Note 4) The rated acceleration is 0.3G. When the acceleration is increased, the loading capacity decreases.
(Note 5) Take note that the maximum speed drops when the stroke becomes longer. If the robot is to be moved with the vertical axis lowered, raise the speed and acceleration.

Loading Capacities (kg) (Note 4)

BB □ HZRM

		Y-axis Stroke					
		200	300	400	500	600	700
Z-axis Stroke	200	Rated: 2.0 kg (at acceleration/deceleration of 0.3 G) Maximum: 6.0 kg (at acceleration /deceleration of 0.1 G)					

Maximum Speeds by Stroke (mm/s) (Note 5)

BB □ HZRM

	Stroke										
	100	200	300	400	500	600	700	800	900	1000	
X-axis	1000									830	690
Y-axis	1000										

Stroke : 200mm	
Z-axis	1256mm/s

Stroke: ±360°	
Rotational Axis	2200°/s

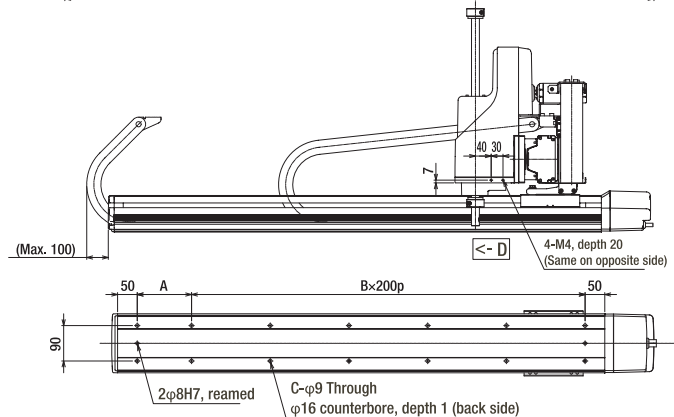
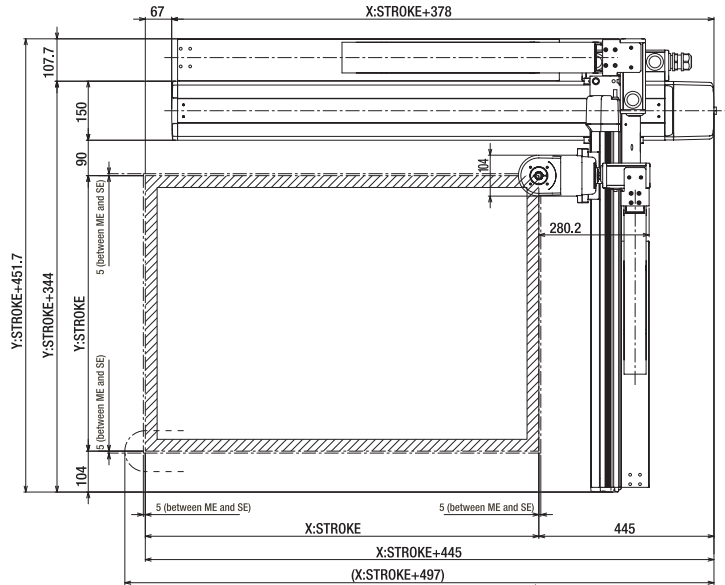
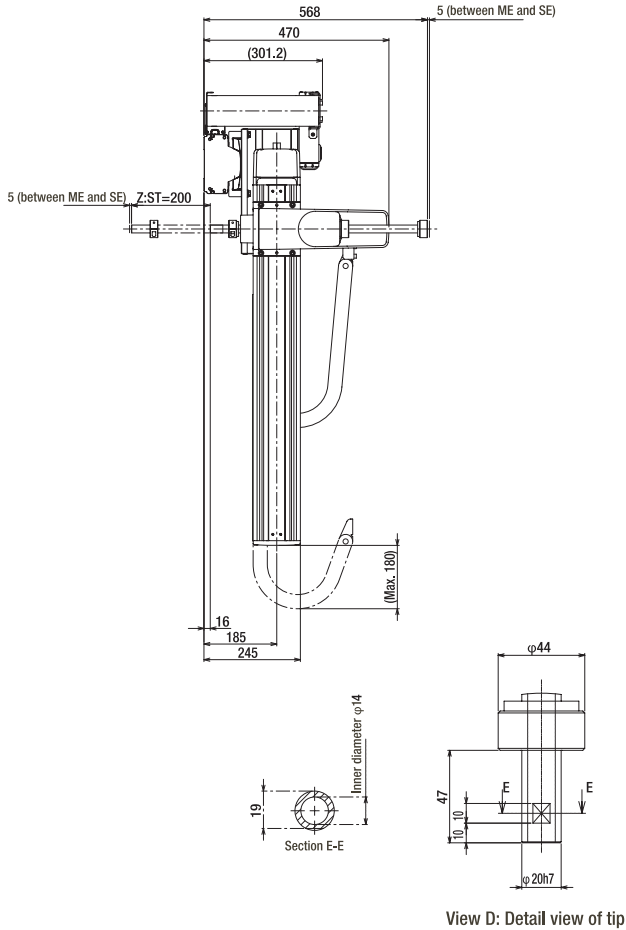
Dimensions

* The figure below is the figure for XY combination direction 1.

CAD drawings can be downloaded from the website



* In the figure below, the cable track dimensions is CTM for the Y-axis and CT for the ZR-axes. (CT cannot be used for the Y-axis)

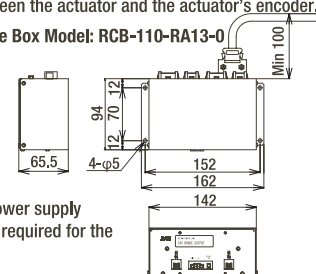


* The combination position shown in the drawing defines the home position. If you want to change the home position, specify the option "NM." Take note that to change the home position after the delivery, the robot must be returned for adjustment.

Brake Box (Accessory)

This device must be installed along the cable wired between the actuator and the actuator's encoder.

Brake Box Model: RCB-110-RA13-0



Note

A 24-VDC power supply (1A max.) is required for the brake box.

X Stroke	300	400	500	600	700	800	900	1000
A	238	138	238	138	238	138	238	138
B	1	2	2	3	3	4	4	5
C	6	8	8	10	10	12	12	14



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IAI America, Inc.

Headquarters: 2690 W. 237th Street Torrance, CA 90505
Chicago Office: 1261 Hamilton Parkway Itasca, IL 60143
Atlanta Office: 1220 Kennestone Circle Suite E, Marietta, GA 30066

Website: www.intelligentactuator.com

Due to product improvements, the information presented in this catalog is subject to change without notice

IAI (Shanghai) Co.,Ltd.

SHANGHAI JIAHUA BUSINESS CENTER A8404.808
Hongqiao Rd. shanghai 200030, China

IAI Industrieroboter GmbH

Ober der Röth 4, D-65824 Schwalbach am Taunus, Germany

