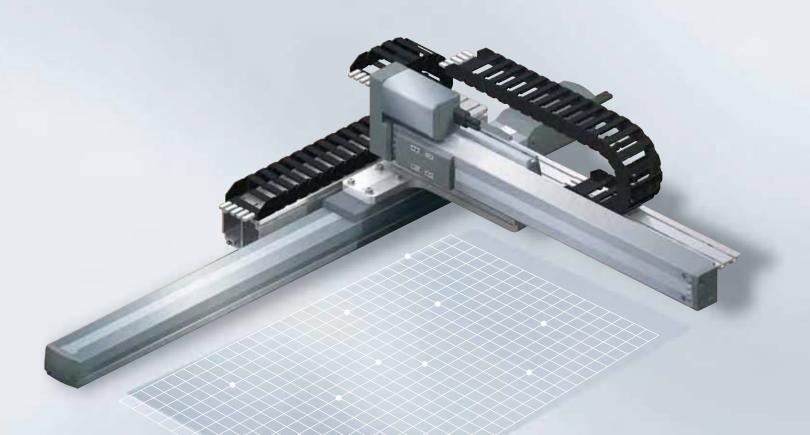


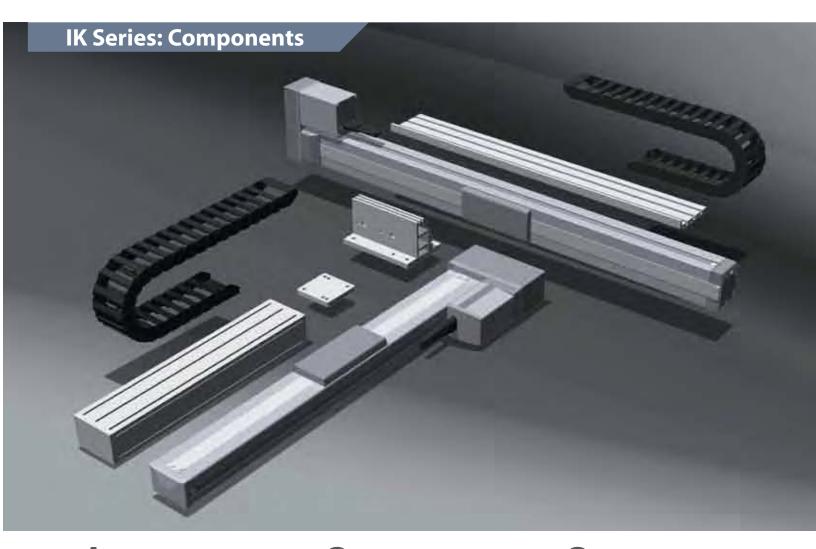


ROBO Cylinder IK Series Catalog





ROBO Cylinder IK Series



1. Wide Variation

The engineers at IAI have worked extensively to produce the highest quality products at affordable prices. The new IK Series lineup offers many variations and can be easily integrated and prepared to your specific needs.

2. Motor Options

The IK Series is offered in both pulse and servo motors. Choose the pulse motor for applications requiring high thrust at low speeds. Choose the servo motor for applications requiring constant thrust regardless of the operating speed.

3. Easy Assembly

The ROBO Cylinder IK Series multi-axes kit includes everything needed for fast and easy assembly.



Multi-Axes Systems



4. High Functionality

Combined with the PCON/PSEL/SCON/SSEL/XSEL controllers, complex programming is made easy.







5. Quality and Innovation

We at IAI are always working to offer high quality and innovative solutions tailored for your specific application. Whenever you need support, IAI's experienced teams of technical support engineers are available to help you diagnose and troubleshoot IAI products. When you require innovative and high quality robots, excellent service and support for your unique needs, demand IAI!



Wide-ranging Lineup Lineup of IK Series

■ Combinations







• IK2-PXBD Series

• IK2-SXBD Series

		Maximum X-axis stroke	Maximum Y-axis stroke	Load capacity at maximum Y-axis stroke
	Y high-speed type	600mm	200mm	2.5kg
Single-slider	Y medium-speed type	600mm	200mm	5.0kg
Double-slider	Y high-speed type	450mm	400mm	2.0kg
	Y medium-speed type	450mm	400mm	4.0kg

• IK2-PXBC Series • IK2-SXBC Series

		Maximum X-axis stroke	Maximum Y-axis stroke	Load capacity at maximum Y-axis stroke
Single-slider	Y high-speed type	600mm	200mm	3.0kg
	Y medium-speed type	600mm	200mm	6.0kg
Double-slider	Y high-speed type	450mm	400mm	3.0kg
	Y medium-speed type	450mm	400mm	6.0kg

XZ (Upright type)



• IK2-PXZB Series	• IK2-SXZB Series

		Maximum X-axis stroke	Maximum Z-axis stroke	Load capacity at maximum Y-axis stroke
	X high-speed/Z high-speed type	1,000mm	250mm	1.5kg
Single-	X high-speed/Z medium-speed type	1,000mm	250mm	2.5kg
slider	X high-speed/Z low-speed type	1,000mm	250mm	3.0kg
Double- slider	X high-speed/Z high-speed type	800mm	300mm	1.5kg
	X high-speed/Z medium-speed type	800mm	300mm	3.0kg
	X high-speed/Z low-speed type	800mm	300mm	5.5kg

YZB (Cross type, base mount)



• IK2-PYBB Series • IK2-SYBB Series

		Maximum X-axis stroke	Maximum Z-axis stroke	Load capacity at maximum Y-axis stroke
a	X high-speed/Z high-speed type	1,000mm	300mm	1.5kg
Single- slider	X high-speed/Z medium-speed type	1,000mm	300mm	3.0kg
	X high-speed/Z low-speed type	1,000mm	300mm	5.5kg

IK2-S Series / IK3-S Series ROBO Cylinder RCS2 combinations based on servo motor



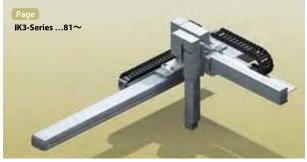
• IK2-PXBB Series • IK2-SXBB Series

		Maximum X-axis stroke	Maximum Y-axis stroke	Load capacity at maximum Y-axis stroke
Single-slider	High-speed type	1,000mm	300mm	6.0kg
	Medium-speed type	1,000mm	300mm	8.0kg
Double-slider	High-speed type	800mm	400mm	5.5kg
	Medium-speed type	800mm	400mm	10.5kg

• IK2-SXBA Series

		Maximum X-axis stroke	Maximum Y-axis stroke	Load capacity at maximum Y-axis stroke
Single-slider	High-speed type	1,000mm	350mm	7.0kg
	Medium-speed type	1,000mm	200mm	12.5kg
Double-slider	High-speed type	800mm	400mm	10.0kg
	Medium-speed type	800mm	400mm	11.5kg

3-axis type (XYB+Z, base mount)



• IK3 Series

		Maximum X-axis stroke	Maximum Y-axis stroke	Maximum Z-axis stroke	Load capacity at maximum Y-axis stroke
	X high-speed/Y high-speed/Z high-speed type	1,000mm	300mm	200mm	1.0kg
Single-	X high-speed/Y high-speed/Z medium-speed type	1,000mm	300mm	200mm	2.0kg
slider	X high-speed/Y high-speed/Z low-speed type	1,000mm	300mm	200mm	4.0kg
Double-	X high-speed/Y high-speed/Z high-speed type	800mm	400mm	200mm	1.0kg
slider	X high-speed/Y high-speed/Z medium-speed type	800mm	400mm	200mm	2.0kg
	X high-speed/Y high-speed/Z low-speed type	800mm	400mm	200mm	4.0kg

2-axis combination - Axis configurations

	Axis 1	Axis 2				
IK2-PXBD	RCP2-SS7□	RCP2-SA5R				
IK2-SXBD	RCS2-SS7□	RCS2-SA5R				
IK2-PXBC	RCP2-SS7□	RCP2-SA6R				
IK2-SXBC	RCS2-SS7□	RCS2-SA6R				
IK2-PXBB	RCP2-SS8□	RCP2-SA7R				
IK2-SXBB	RCS2-SS8□ (100W)	RCS2-SA7R				
IK2-SXBA	RCS2-SS8□ (150W)	RCS2-SS8R (100W)				
IK2-PXZB	RCP2-SS8□	RCP2-SA7R				
IK2-SXZB	RCS2-SS8□ (100W)	RCS2-SA7R				
IK2-PYBB	RCP2-SS8□	RCP2-SA7R				
IK2-SYBB	RCS2-SS8□ (100W)	RCS2-SA7R				

3-axis combination – Axis configurations

	X axis	Y axis	Z axis			
IK3	RCP2-SS8□	RCP2-SA7R	RCP2-SA6R			
	RCS2-SS8□ (100W)	RCS2-SA7R	RCS2-SA6R			

IK Series

The IK Series is a set that includes the following components needed to assemble the cartesian robot.



















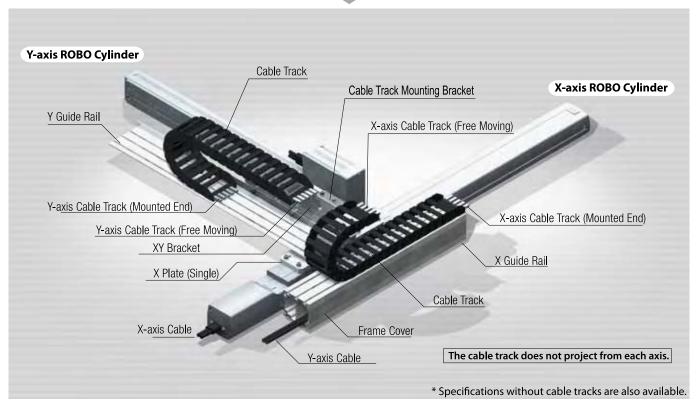




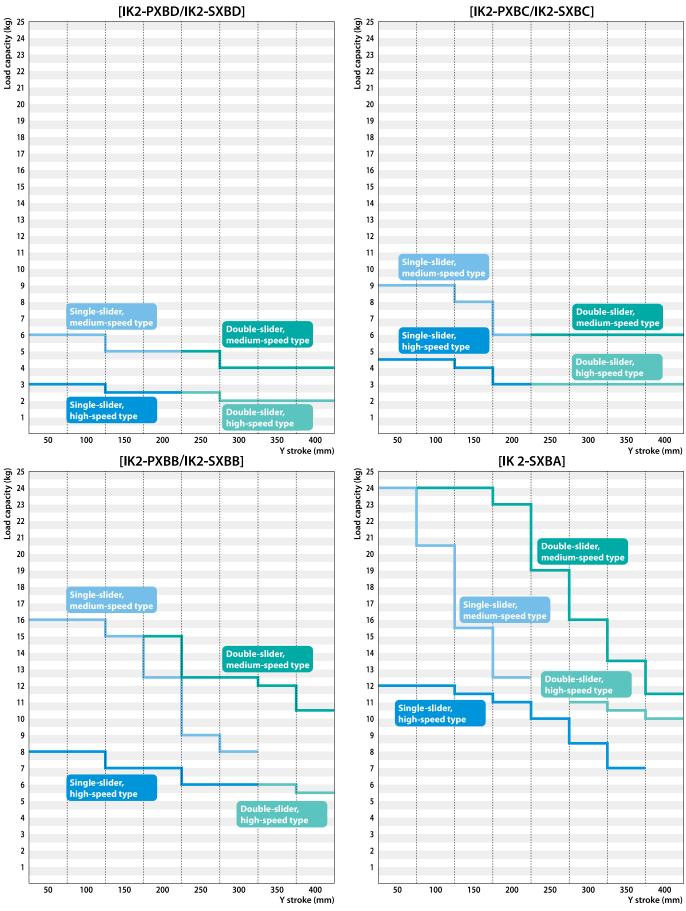


Note: The above images are provided for reference purposes only. The actual components may vary depending on the combination type, direction, etc.





Load Capacity Graphs for XYB Combinations



RCP2 Combination Unit List for 2-axis Configuration (XYB) (\Box in the model names indicates a value from 1 to 4 specifying the combination direction. For the combination directions, refer to P. 10.)

D= ===	Combination model	Combined		Axis 1	<u> </u>			Axis 2	
Page	Combination model	shape	Type	Motor size	Lead (mm)	Maximum speed (mm/sec)	Stroke (mm)	Type	
13	IK2-PXBD1□HHS		SS7R Reversed		12	400	50-600		
	IK2-PXBD1□HMS		337 K neversed		12	350	30-600		
15	IK2-PXBD1□HHD		SS7R Reversed, double-slider		12	400	50-450		
15	IK2-PXBD1□HMD		337 K Neversea, double-slider		12	350	30-430	SA5R	
17	IK2-PXBD2□HHS		SS7C Straight		12	400	50-600	Reversed	
	IK2-PXBD2□HMS		337C Straight		12	350	30-000		
19	IK2-PXBD2□HHD		SS7C Straight, double-slider		12	400	50-450		
19	IK2-PXBD2□HMD		337C Straight, double-slider	42□	12	350	30-430		
21	IK2-PXBC1□HHS		SS7R Reversed		12	400	50-600		
	IK2-PXBC1□HMS		337 K Neversed		12	250	30-000		
23	IK2-PXBC1□HHD		SS7R Reversed, double-slider		12	400	50-450		
23	IK2-PXBC1□HMD		337 K Reversed, double-stider		12	250	30-430	SA6R	
25	IK2-PXBC2□HHS		SS7C Straight		12	400	50-600	Reversed	
	IK2-PXBC2□HMS	VVD	337C Straight		12	250	30-000		
27	IK2-PXBC2□HHD	XYB	SS7C Straight, double-slider		12	400	50-450		
21	IK2-PXBC2□HMD		337C Straight, double-slider		12	250	30-430		
29	IK2-PXBB1□HHS		SS8R Reversed		20	0 250	50-1000		
	IK2-PXBB1□MMS		336h neverseu		10	125	30-1000		
31	IK2-PXBB1□HHD		SS8R Reversed, double-slider		20	250	50-800		
٠,٠	IK2-PXBB1□MMD		338k Neversea, double-slider	56□	10	125	30-800	SA7R	
33	IK2-PXBB2□HHS		SS8C Straight		20	250	50-1000	Reversed	
	IK2-PXBB2□MMS		338C Straight		10	125	30-1000		
35	IK2-PXBB2□HHD		SS8C Straight, double-slider		20	250	50-800		
33	IK2-PXBB2□MMD		338C Straight, double-slider		10	125	30-800		
	IK2-PXZB1□HHS								
37	IK2-PXZB1□HMS		SS8R Reversed				50-1000		
	IK2-PXZB1□HLS								
	IK2-PXZB1□HHD			56□					
39	IK2-PXZB1□HMD	xz	SS8R Reversed, double-slider		20	250	50-800	SA7R	
	IK2-PXZB1□HLD	^4						Reversed	
	IK2-PYBB1□HHS								
41	IK2-PYBB1□HMS	YZB	SS8R Reversed				50–1000)
	IK2-PYBB1□HLS	U '							

RCS2 Combination Unit List for 2-axis Configuration (XYB) (in the model names indicates a value from 1 to 4 specifying the combination direction. For the combination directions, refer to P. 10.)

Dage	Combination model	Combined		Axis 1				Axis 2	
Page		shape	Туре	Motor output (W)	Lead (mm)	Maximum speed (mm/sec)	Stroke (mm)	Туре	
43	IK2-SXBD1□HHS		SS7R Reversed		12	600	50-600		
45	IK2-SXBD1□HMS		337K Neverseu		12	600	30-000		
45	IK2-SXBD1□HHD		SS7R Reversed, double-slider		12	600	50-450		
45	IK2-SXBD1□HMD		337 K Reversed, double-slider		12	600	30-430	SA5R	
47	IK2-SXBD2□HHS		SS7C Straight		12	600	50-600	Reversed	
4/	IK2-SXBD2□HMS		337C Straight		12	600	30-000		
49	IK2-SXBD2□HHD		SS7C Straight, double-slider		12	600	50-450		
49	IK2-SXBD2□HMD		337C Straight, double-slider	60	12	600	30-430		
51	IK2-SXBC1□HHS		SS7R Reversed	80	12	600	50-600		
ויכ	IK2-SXBC1□MMS		55/K Reversed		6	300	30-600		
53	IK2-SXBC1□HHD		SSTR Deversed double slider	1	12	600	E0 4E0		
22	IK2-SXBC1□MMD	SS7R Reversed, double-slider	557K Reversed, double-slider		6	300	50–450	SA6R	
55	IK2-SXBC2□HHS	_	SS7C Straight		12	600	50-600	Reversed	
33	IK2-SXBC2□MMS		337C Straight		6	300	50-450		
57	IK2-SXBC2□HHD		SS7C Straight, double-slider		12	600			
ا 'د	IK2-SXBC2□MMD		337C Straight, double-slider		6	300			
	IK2-SXBB1□HHS		CCOD (400M) D		20	1000	50 1000		
59	IK2-SXBB1□MMS	ХҮВ	SS8R (100W) Reversed		10	500	50–1000		
	IK2-SXBB1□HHD		ХҮВ	SS8R (100W) Reversed, double-slider	7	20	1000	50.000	SA7R Reversed
61	IK2-SXBB1□MMD			558K (100W) Reversed, double-slider	100	10	500	50–800	
63	IK2-SXBB2□HHS			5505 (100M) Sturings	100	20	1000	50-1000	
63	IK2-SXBB2□MMS		SS8C (100W) Straight		10	500	50-1000		
. -	IK2-SXBB2□HHD		SSOC (400M) Startishts developed alider	7	20	1000	E0 800		
65	IK2-SXBB2□MMD		SS8C (100W) Straight, double-slider		10	500	50–800		
	IK2-SXBA1□HHS		CCOD (4.50)M) D		20	1000	50 1000		
67	IK2-SXBA1□MMS		SS8R (150W) Reversed		10	500	50–1000		
	IK2-SXBA1□HHD		CCOD (450M) December 1 december 12 decembe	7	20	1000	50.000	SS8R	
69	IK2-SXBA1□MMD		SS8R (150W) Reversed, double-slider	450	10	500	50–800	(100W)	
	IK2-SXBA2□HHS		660 6 (6 TOWN 6) 1 1 1 1	150	20	1000		Reversed	
71	IK2-SXBA2□MMS		SS8C (150W) Straight		10	500	50–1000	Reversed	
	IK2-SXBA2□HHD		CCOC (450M) Court Louis	1	20	1000	50.000		
73	IK2-SXBA2□MMD		SS8C (150W) Straight, double-slider		10	500	50–800		
	IK2-SXZB1□HHS								
75	IK2-SXZB1□HMS		SS8R (100W) Reversed				50-1000		
	IK2-SXZB1□HLS	1 _ YH	Joseph (1991), Nettersea			30-1000			
	IK2-SXZB1□HHD								
77	IK2-SXZB1□HMD		SS8R (100W) Reversed, double-slider	100	20	1000	50-800	SA7R	
	IK2-SXZB1□HLD	XZ					30 000	Reversed	
	IK2-SYBB1□HHS			1					
79	IK2-SYBB1□HMS	YZB	SS8R (100W) Reversed				50-1000	100	
,,	IK2-SYBB1□HLS	YZB	John (1001) Heversea				30 .000		

			Axi	is 1: Mount axis	Axis 2: Axis ins	talled on axis 1					2 Cable wiring 2: Wiring for axis 3		
			Axis 2				Lo	ad capacity l	by axis 2 stro	ke			
	Motor size	Lead (mm)	Maximum speed (mm/sec)	Stroke (mm)	50	100	150	200	250	300	350	400	
		12	600	50-200	3.0	3.0	2.5	2.5					
		6	300	50-200	6.0	6.0	5.0	5.0					
		12	600	250-400					2.5	2.0	2.0	2.0	
		6	300	250-400					5.0	4.0	4.0	4.0	
	42□	12	600	50-200	3.0	3.0	2.5	2.5					
		6	300	50-200	6.0	6.0	5.0	5.0					
		12	600	250-400					2.5	2.0	2.0	2.0	
		6	300	250-400					5.0	4.0	4.0	4.0	
		12	600	50-200	4.5	4.5	4.0	3.0					
		6	300	50-200	9.0	9.0	8.0	6.0					
		12	600	250-400					3.0	3.0	3.0	3.0	
	42□	6	300	250-400					6.0	6.0	6.0	6.0	
		12	600	50-200	4.5	4.5	4.0	3.0					
		6	300	50-200	9.0	9.0	8.0	6.0					
		12	600	250-400					3.0	3.0	3.0	3.0	
		6	300	250-400					6.0	6.0	6.0	6.0	
		16	450	50-300	8.0	8.0	7.0	7.0	6.0	6.0			
		8	220	50-300	16.0	16.0	15.0	12.5	9.0	8.0			
		16	450	350-400							6.0	5.5	
	56□	8	220	200-400				15.0	12.5	12.5	12.0	10.5	
		16	450	50-300	8.0	8.0	7.0	7.0	6.0	6.0			
		8	220	50-300	16.0	16.0	15.0	12.5	9.0	8.0			
		16	450	350-400							6.0	5.5	
		8	220	200-400				15.0	12.5	12.5	12.0	10.5	
		16	360	50-250	2.0	2.0	2.0	2.0	1.5				
		8	180	50-250	4.0	4.0	3.5	3.5	2.5				
		4	90	50-250	8.0	7.0	5.0	4.0	3.0				
		16	400	300						1.5			
	56□	8	200	300						3.0			
		4	100	150-300			7.0	7.0	5.5	5.5			
		16	360	50-300	2.0	2.0	2.0	2.0	1.5	1.5			
		8	180	50-300	4.0	4.0	3.5	3.5	3.0	3.0			
		4	90	50-300	8.0	8.0	7.0	7.0	6.0	5.5			

		Axis 2				Le	oad capacity	by axis 2 stro	ke		
Motor output (W	Lead (mm)	Maximum speed (mm/sec)	Stroke (mm)	50	100	150	200	250	300	350	400
	12	800	50, 200	3.0	3.0	2.5	2.5				
	6	400	50–200	6.0	6.0	5.0	5.0				
	12	800	250 400					2.5	2.0	2.0	2.0
30	6	400	250–400					5.0	4.0	4.0	4.0
20	12	800	50, 300	3.0	3.0	2.5	2.5				
	6	400	50–200	6.0	6.0	5.0	5.0				
	12	800	250 400					2.5	2.0	2.0	2.0
	6	400	250-400					5.0	4.0	4.0	4.0
	12	800	50, 300	4.5	4.5	4.0	3.0				
	6	400	50–200	9.0	9.0	8.0	6.0				
	12	800	250 400					3.0	3.0	3.0	3.0
20	6	400	250–400					6.0	6.0	6.0	6.0
30	12	800	50.300	4.5	4.5	4.0	3.0				
	6	400	50–200	9.0	9.0	8.0	6.0				
	12	800	250 400					3.0	3.0	3.0	3.0
	6	400	250–400					6.0	6.0	6.0	6.0
	16	800	50.200	8.0	8.0	7.0	7.0	6.0	6.0		
	8	400	50–300	16.0	16.0	15.0	12.5	9.0	8.0		
	16	800	350-400							6.0	5.5
	8	400	200-400				15.0	12.5	12.5	12.0	10.5
60	16	800	50 300	8.0	8.0	7.0	7.0	6.0	6.0		
	8	400	50-300	16.0	16.0	15.0	12.5	9.0	8.0		
	16	800	350-400							6.0	5.5
	8	400	200-400				15.0	12.5	12.5	12.0	10.5
	20	1000	50.350	12.0	12.0	11.5	11.0	10.0	8.5	7.0	
	10	500	50–350	24.0	20.5	15.5	12.5				
	20	1000	300-400						11.0	10.5	10.0
100	10	500	100-400		24.0	24.0	23.0	19.0	16.0	13.5	11.5
100	20	1000	50-350	12.0	12.0	11.5	11.0	10.0	8.5	7.0	
	10	500	30-330	24.0	20.5	15.5	12.5				
	20	1000	300-400						11.0	10.5	10.0
	10	500	100-400		24.0	24.0	23.0	19.0	16.0	13.5	11.5
	16	800		2.0	2.0	2.0	2.0	1.5			
	8	400	50-250	4.0	4.0	3.5	3.5	2.5			
	4	200		8.0	7.0	5.0	4.0	3.0			
	16	800	300						1.5		
60	8	400							3.0		
	4	200	150-300			7.0	7.0	5.5	5.5		
	16	800		2.0	2.0	2.0	2.0	1.5	1.5		
	8	400	50-300	4.0	4.0	3.5	3.5	3.0	3.0		
	4	200		8.0	8.0	7.0	7.0	6.0	5.5		

Tips on Selection

RCP2 Combination Unit List for 3-axis Configuration (XYB+Z-axes, base mount) (\square in the model names indicates a value from 1 to 4 specifying the combination direction. For the combination directions, refer to P. 10.)

Dago	Combination model	Combined		X axis				Y axis	
Page	Combination model	shape	Type	Motor size	Lead (mm)	Maximum speed (mm/sec)	Stroke (mm)	Type	
	IK3-PBBG1□HHHS								
81	IK3-PBBG1□HHMS		SS8R Reversed, single-slider				50-1000		
	IK3-PBBG1□HHLS	XYB+Z,		56□	20	220		SA7R	
	IK3-PBBG1□HHHD	base mount		36	20	220		Reversed	
83	IK3-PBBG1□HHMD		SS8R Reversed, double-slider				50-800		
	IK3-PBBG1□HHLD								

RCS2 Combination Unit List for 3-axis Configuration (XYB+Z-axes, base mount) (\square in the model names indicates a value from 1 to 4 specifying the combination direction. For the combination directions, refer to P. 10.)

Page	Combination model	Combined		X axis				Y axis	
raye	Combination model	shape	Type	Motor output (W)	Lead (mm)	Maximum speed (mm/sec)	Stroke (mm)	Type	
	IK3-SBBG1□HHHS								
85	IK3-SBBG1□HHMS		SS8R (100W) Reversed, single-slider				50-1000		
	IK3-SBBG1□HHLS	XYB+Z,		100	20	1000		SA7R	
	IK3-SBBG1□HHHD	base mount		100	20	1000		Reversed	
88	IK3-SBBG1□HHMD		SS8R (100W) Reversed, double-slider				50-800		
	IK3-SBBG1□HHLD								

■Tips on Selection

1. Differences between RCP2 and RCS2

Features of RCP2

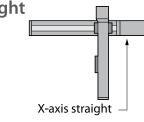
- [1] Adopting a pulse motor.
- [2] Characterized by high thrust at low speed.
- [3] Less expensive than the RCS2.

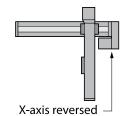


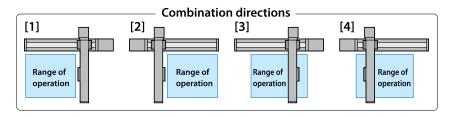
- [1] Adopting a servo motor.
- [2] Able to operate at a constant thrust regardless of the speed.
- [3] Able to move at higher speeds than the RCP2.



The X-axis reversed type can have a shorter dimension in the X-axis direction. When the 150-watt RCS2-SS8C (straight) and 150-watt SS8R (reversed) are compared, for example, the SS8R is shorter by 130 mm. Note, however, that the reversed type does not support configurations based on combination directions [3] and [4].





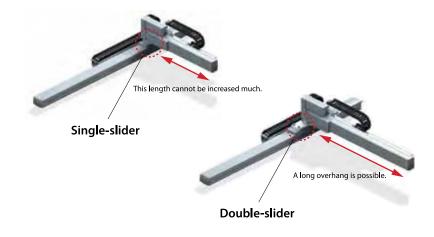


3. Differences between Single-slider and Double-slider Types

A double-slider consists of two sliders connected to each other and has a greater permissible load moment compared to a single-slider type.

Accordingly, double-slider units are used as the X-axis in XY configurations with a long overhang.

Note, however, that because the double-slider structure naturally has a longer slider section, a double-slider unit has a shorter stroke than a single-slider unit of the same total length.



Y axis					Z axis				Load capacity by Y-axis stroke											
	Motor size	Lead (mm)	Maximum speed (mm/sec)	Stroke (mm)	Type	Motor size	Lead (mm)	Maximum speed (mm/sec)	Stroke (mm)	50	100	150	200	250	300	350	400			
							12	500				1	.0							
				50-300			6	250				2	.0							
	56□	16	420			SA6R	42□	3	125	50-200			4	.0						
	36	10	420	420 F		Reversed	ed	versed	ed 12	12	500								1.	0
				350-400			6	250								2.	0			
							3	125								4.	0			

Y axis					Z axis				Load capacity by Y-axis stroke								
	Motor output (W)	Lead (mm)	Maximum speed (mm/sec)	Stroke (mm)	Type	Motor output (W)	Lead (mm)	Maximum speed (mm/sec)	Stroke (mm)	50	100	150	200	250	300	350	400
							12	800				1.	.0				
				50-300			6	400				2.	.0				
	60	16	800		SA6R	30	3	200	50-200			4.	.0				
	60	10	800		Reversed		12	800								1.	.0
				350-400			6	400								2.	.0
							3	200								4.	.0

Explanation of Items Comprising Model Name



[IK Series, 3-axis combination unit]



[1] Axis configuration [2] Combined shape

Code	Model
Р	RCP2
S	RCS2

	•	
Code	Combined shape	Name
XB	XYB	XY, base mount
XZ	XZ	Upright type
YB	YZB	Cross type, base mount
RR	XVR+7R	XVR+7 hase mount

[3]Configuration type

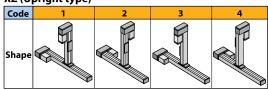
Code	Axis 1	Axis 2	Axis 3
A1	SS8R (150W)	SS8R (100W)	
A2	SS8C (150W)	SS8R (100W)	
B1	SS8R (100W)	SA7R	
B2	SS8C (100W)	SA7R	
C1	SS7R	SA6R	
C2	SS7C	SA6R	
D1	SS7R	SA5R	
D2	SS7C	SA5R	
G1	SS8R (100W)	SA7R	SA6R

[4] Combination directions

XYB (XY, base mount) *Only 1 and 2 are supported if the X-axis is of reversed type.

Code	1	2	3	4
Shape				





YZB (Cross type, base mount)							
Code	1	2					
Shape							

[5]Speed type

Code		Туре	
НН	High- speed	High- speed	
НМ	High- speed	Medium- speed	
HL	High- speed	Low- speed	
MM	Medium- speed	Medium- speed	
ннн	High- speed	High- speed	High- speed
ннм	High- speed	High- speed	Medium- speed
HHL	High- speed	High- speed	Low- speed

[6]	X-A	xis	Slider	Тур	e
	-				

Code	Туре
S	Single
D	Double

[7]Encoder Type

[/]Lincodei Type				
Code	Type			
	Incremental			
Α	Absolute			

The combination directions supported by the 3-axis configuration (XYB+Z-axes, base mount) are the same as those of the XYB configuration shown above.

[8]Axis 1 stroke (cm)

5:50mm-100:1000mm (Can be set in 50-mm increments)

[10]Axis 2 stroke (cm)

5:50mm-40:400mm (Can be set in 50-mm increments)

[12]Axis 3 stroke (cm)

5:50mm-20:200mm

(Can be set in 50-mm increments)

[9]Axis 1 options

Code	Description
NM	Reversed-home specification
SR	Slider roller specification

[11]Axis 2 options

Code	Description
В	Brake
NM Reversed-home specification SR Slider roller specification	

[13]Axis 3 options

	<u> </u>
Code	Description
B Brake	
NM Reversed-home specification	
SR	Slider roller specification

Axis 1: Mount axis

Axis 2: Axis installed on axis 1 Axis 3: Axis 3: Axis installed on axis 2 Cable wiring 1: Wiring for axis 2 Cable wiring 2: Wiring for axis 3

[14]Applicable controller

Code	Model	
T1	XSEL-J/K	
T2	SSEL, XSEL-P/Q	
P1	PSEL, ROBONET	

[15]Cable length

Code	Description
1L	1m
3L	3m
5L	5m
	□m

[16]Cable wiring 1

	<u> </u>
Code	Description
N	Cable only
СТ	With cable track

[17]Cable wiring 2

	<u> </u>	
Code	Description	
N	Cable only	
СТ	With cable track	

[18]Shipping configuration

Code		escription
K	Individua	al components (kit)

■Controller List

The IA kit supports the following controllers. For details on each controller, refer to the reference page describing the applicable controller.

	Exterior view	Features	Maximum number of positioning points	Input power supply	Reference page
PCON		A positioning controller for the RCP2 series. Pulse-train control and serial communication types are also available.	512	DC24V	Refer to the ROBO Cylinder General Catalog
PSEL		A program controller for the RCP2 series. Can be programmed using SEL language. 1-axis and 2-axis types are available.	1500	DC24V	P. 93
SCON	A H	A positioning controller for the RCS2 series. Field networks are supported.	512	100 VAC Single-phase 200 VAC	Refer to the ROBO Cylinder General Catalog
SSEL		A program controller for the RCS2 series. Can be programmed using SEL language. 1-axis and 2-axis types are available.	1500	100 VAC Single-phase 200 VAC	P. 93
ROBONET		Able to operate 1 to 16 ROBO Cylinder axes via a field network. Less hassle of wiring and installation.	768	DC24V	P. 93
XSEL-J/K		For the RCS2 series. 3-axis and 4-axis configurations are supported. Two sets of 2-axis combination systems can be controlled. J type: Small size K type: Provides greater expandability because I/Os can be used.	3000	100 VAC Single-phase 200 VAC	P. 93
XSEL-P/Q		For the RCS2 series. 5-axis and 6-axis configurations are supported.	4000	Three-phase 200 VAC	P. 93

11



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FROM OUR EASY TO USE SOFTWARE, TO COMPLETE AUTOMATION SOLUTIONS, WE PROVIDE YOU WITH THE TOOLS NECESSARY TO SCALE YOUR BUSINESS. WHEN YOU DEMAND INNOVATIVE AND HIGH QUALITY ROBOTS, EXCELLENT SERVICE AND SUPPORT FOR YOUR UNIQUE NEEDS, DEMAND IAI!



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On the windows of the newly constructed headquarters spell out the character for 'heart' in Japanese. This character is rich and meaningful, symbolizing the heart, spirit, attention and sincerity of IAI's commitment to the users of IAI products.

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IAI has been certified for ISO 9001:2000 and JIS Q9001:2000 by an independent auditor to be in conformance with ISO 9001:2000 and JIS 9001:2000. We at IAI are continually improving our methods to produce quality products and services that surpass customer expectations.

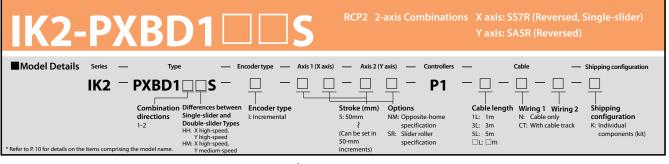


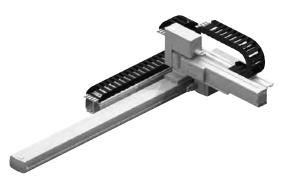
RoHS Compliant

IAI is RoHS compliant and recognizes the responsibility in reducing hazardous substances to better serve our customers and our environment.









X axis 600 mm Y axis 200 mm

■Maximum Speed (High-speed type)

X axis 400 mm/s Y axis 600 mm/s

■ Maximum Load Capacity

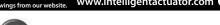
Y-axis stroke	X high-speed, Y high-speed	X high-speed, Y medium-speed
50mm	3.0kg	6.0kg
100mm	3.0kg	6.0kg
150mm	2.5kg	5.0kg
200mm	2.5kg	5.0kg

Both wiring 1 and wiring 2 assume use of a cable track.

Specifications			
Item	X axis	Y axis	
Axis model	RCP2-SS7R	RCP2-SA5R	
Stroke (Can be set in 50-mm increments)	50-600mm	50-200mm	
Marrana	HH type: 400mm/s	High-speed type: 600mm/s	
Max speed	HM type: 350mm/s	Medium-speed type: 300mm/s	
Motor size	42-square p	oulse motor	
Ball screw lead	High-speed type: 12mm	High-speed type: 12mm	
ball screw lead	Tilgii-speed type. 1211111	Medium-speed type: 6mm	
Drive method	Ball screw, ø10 mm, rolled, C10		
Positioning repeatability	±0.02mm		
Base material	Dedicated alloy steel	Aluminum	
Surrounding air temperature/humidity	0 to 40°C, 85% RH or belo	ow (non-condensing)	

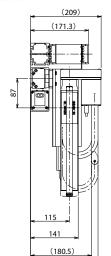
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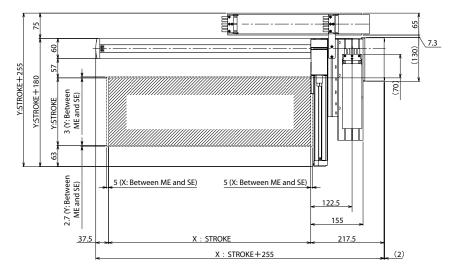


Note 3. For details on the cable track, refer to P. 90. Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.

Note 1. The connected position shown in the drawing defines the home Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

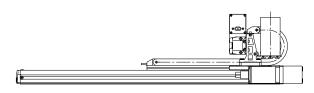


(199.8)



(Tolerance for reamed hole pitch: ±0.02) 4 – M4, depth 9 2-ø4 – M4, depth 9 19 (Tolerance for reamed

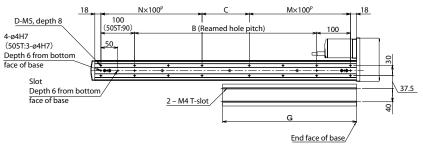




Detail view of Y-axis slider



Detail view of slot in bottom face of X-axis base



■Dimensions by Stroke

Detail view of X-axis installation

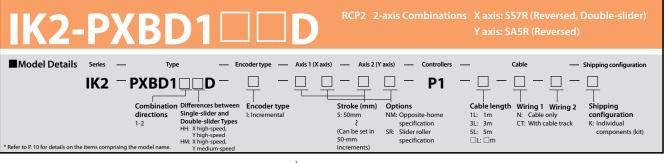
	, .											
X: Model	50	100	150	200	250	300	350	400	450	500	550	600
В	0	40	90	140	190	240	290	340	390	440	490	540
C	90	40	90	140	190	40	90	140	190	40	90	140
D	6	8	8	8	8	12	12	12	12	16	16	16
M	1	1	1	1	1	2	2	2	2	3	3	3
N	0	1	1	1	1	2	2	2	2	3	3	3
G	122	147	172	197	222	247	272	297	322	347	372	397

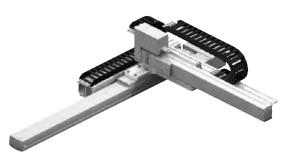
Controllers

Applicable controller









X axis 450 mm Y axis 400 mm

■ Maximum Speed (High-speed type)

X axis 400 mm/s Y axis 600 mm/s

■Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X high-speed, Y medium-speed
250mm	2.5kg	5.0kg
300mm	2.0kg	4.0kg
350mm	2.0kg	4.0kg
400mm	2.0kg	4.0kg

Both wiring 1 and wiring 2 assume use of a cable track.

	List by Stroke						
		Incremental					
	Y-axis stroke	250 300 350 400					
	50	-	-	-	_		
١	100	-	-	-	-		
1 \$	150	-	_	-	_		
troke	200	-	-	-	-		
S S	250	-	-	-	_		
axi	300	-	-	-	_		
×	350	-	-	-	_		
^	400	-	-	-	-		
	450	-	-	-	_		

List by Cable Length					
Type	Cable code	Length			
	1L	1m			
Standard type	3L	3m			
	51	5m			

* Axis 1 comes with a standard cable, while axis 2 comes with a robot ca	ble.
--	------

^{*} Refer to P. 90 for lengths other than those specified above.

Cable track			
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-450
Wiring I (Next to X-axis)		-	-
Wiring 2 (Next to Y-axis)	Y-axis stroke	250-400	-
wiring 2 (Next to Y-axis)		-	_

List of Options		
Name	Option code	-
Opposite-home specification	NM	-
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)

Specifications			
Item	X axis	Y axis	
Axis model	RCP2-SS7R	RCP2-SA5R	
Stroke (Can be set in 50-mm increments)	50-450mm	250-400mm	
M	HH type: 400mm/s	High-speed type: 600mm/s	
Max speed	HM type: 350mm/s	Medium-speed type: 300mm/s	
Motor size	42-square pulse motor		
Ball screw lead	High-speed type: 12mm	High-speed type: 12mm	
ball screw lead	Tilgii-speed type. 1211111	Medium-speed type: 6mm	
Drive method	Ball screw, ø10	mm, rolled, C10	
Positioning repeatability	±0.02mm		
Base material	Dedicated alloy steel	Aluminum	
Surrounding air temperature/humidity	0 to 40°C, 85% RH or belo	ow (non-condensing)	

Dimensions

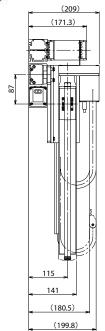
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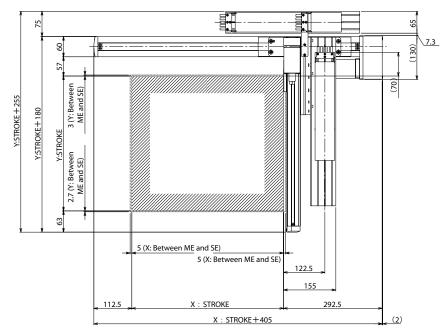


Note 1. The connected position shown in the drawing defines the home Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

Note 3. For details on the cable track, refer to P. 90.

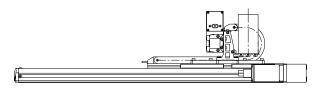
Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.





(Tolerance for reamed hole pitch: ± 0.02) 4 – M4, depth 9 2-ø4 – H7, depth 6 19 (Tolerance for reamed





Detail view of Y-axis slider



Detail view of slot in bottom face of X-axis base

N×100^P M×100^P 18 D-M5, depth 8 B (Reamed hole pitch) 100 100 4-ø4H7 50, Depth 6 from botto face of base Depth 6 from bottom face of base End face of base

Detail view of X-axis installation

■Dimensions by Stroke

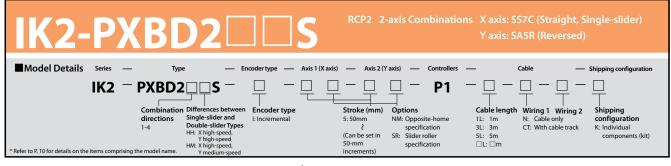
X: Nominal stroke	200	250	300	350	400	450	500	550	600
X: Effective stroke	50	100	150	200	250	300	350	400	450
В	140	190	240	290	340	390	440	490	540
С	140	190	40	90	140	190	40	90	140
D	8	8	12	12	12	12	16	16	16
M	1	1	2	2	2	2	3	3	3
N	1	1	2	2	2	2	3	3	3
G	197	222	247	272	297	322	347	372	397

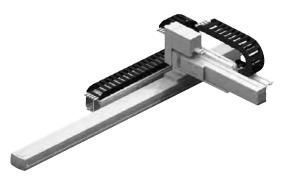
Controllers

Applicable controller









X axis 600 mm Y axis 200 mm

■ Maximum Speed (High-speed type)

X axis 400 mm/s Y axis 600 mm/s

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X high-speed, Y medium-speed
50mm	3.0kg	6.0kg
100mm	3.0kg	6.0kg
150mm	2.5kg	5.0kg
200mm	2.5kg	5.0kg

Both wiring 1 and wiring 2 assume use of a cable track.

1	List by Stroke						
		Incremental					
	Y-axis stroke	50	100	150	200		
	50	-	-	-	-		
	100	-	-	-	-		
	150	-	-	-	-		
e e	200	-	-	-	-		
stroke	250	-	-	-	1		
l st	300	-	-	-	-		
<u>.s</u>	350	-	_	-	-		
X-ax	400	-	-	-	-		
×	450	-	_	_	_		
	500	_	-	_	-		
	550	-	-	_	-		
	600	-	ı	-	-		

List by Cable Length								
Cable code	Length							
1L	1m							
3L	3m							

5L

* Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

5m

 $\ensuremath{^{*}}$ Refer to P. 90 for lengths other than those specified above.

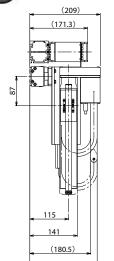
Cable track			
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600
wiring i (Next to x-axis)		-	-
Minima 2 (Novet to Vovie)	Y-axis stroke	50-200	1
Wiring 2 (Next to Y-axis)		_	_

List of Options							
Name	Option code						
Opposite-home specification	NM						
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)					

Specifications				
Item	X axis	Y axis		
Axis model	RCP2-SS7C	RCP2-SA5R		
Stroke (Can be set in 50-mm increments)	50-600mm	50-200mm		
Marramand	HH type: 400mm/s	High-speed type: 600mm/s		
Max speed	HM type: 350mm/s	Medium-speed type: 300mm/s		
Motor size	42-square p	oulse motor		
Ball screw lead	High-speed type: 12mm	High-speed type: 12mm		
ball screw lead	riigii-speed type. rziiiiii	Medium-speed type: 6mm		
Drive method	Ball screw, ø10	mm, rolled, C10		
Positioning repeatability	±0.02mm			
Base material	Dedicated alloy steel	Aluminum		
Surrounding air temperature/humidity	0 to 40°C, 85% RH or below (non-condensing)			

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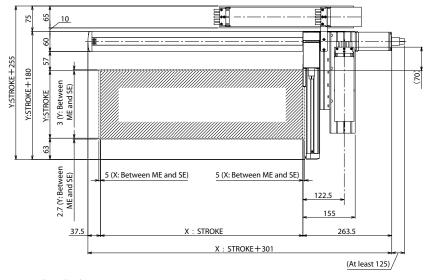
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Note 1. The connected position shown in the drawing defines the home

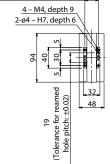
Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

Note 3. For details on the cable track, refer to P. 90.

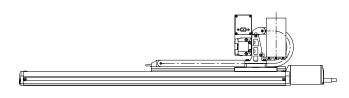
Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.



26 (Tolerance for reamed hole pitch: ± 0.02)



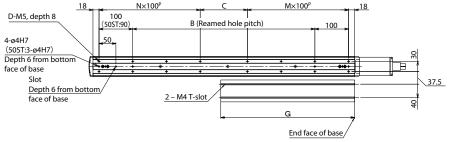
ME: Mechanical end SE: Stroke end



Detail view of Y-axis slider



Detail view of slot in bottom face of X-axis base



Detail view of X-axis installation

■Dimensions by Stroke

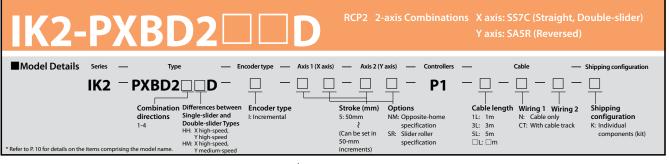
X: Model	50	100	150	200	250	300	350	400	450	500	550	600
В	0	40	90	140	190	240	290	340	390	440	490	540
С	90	40	90	140	190	40	90	140	190	40	90	140
D	6	8	8	8	8	12	12	12	12	16	16	16
M	1	1	1	1	1	2	2	2	2	3	3	3
N	0	1	1	1	1	2	2	2	2	3	3	3
G	122	147	172	197	222	247	272	297	322	347	372	397

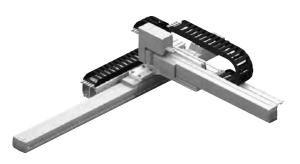
Controllers

Applicable controller









(X axis 450 mm) (Y axis 400 mm)

■ Maximum Speed (High-speed type)

X axis 400 mm/s Y axis 600 mm/s

■Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X high-speed, Y medium-speed
250mm	2.5kg	5.0kg
300mm	2.0kg	4.0kg
350mm	2.0kg	4.0kg
400mm	2.0kg	4.0kg

Both wiring 1 and wiring 2 assume use of a cable track.

	List by Stroke					
	Incremental					
	Y-axis stroke	250	300	350	400	
	50	-	_	-	-	
١	100	-	-	-	-	
troke	150	-	-	-	-	
ţ	200	-	-	-	ı	
is s	250	-	_	-	-	
axi	300	-	-	-	-	
×-a	350	_	-	-	-	
	400	-	-	-	-	
	450	_	-	-	_	

List by Cable Length					
Type	Cable code	Length			
	1L	1m			
Standard type	3L	3m			
	EI	Em			

^{*} Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

Cable track			
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-450
Wiring I (Next to X-axis)		-	-
Wiring 2 (Next to Y-axis)	Y-axis stroke	250-400	-
willing 2 (Next to Y-axis)		_	_

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)

Specifications				
Item	X axis	Y axis		
Axis model	RCP2-SS7C	RCP2-SA5R		
Stroke (Can be set in 50-mm increments)	50-450mm	250-400mm		
M	HH type: 400mm/s	High-speed type: 600mm/s		
Max speed	HM type: 350mm/s	Medium-speed type: 300mm/s		
Motor size	42-square pulse motor			
Ball screw lead	High-speed type: 12mm	High-speed type: 12mm		
ball screw lead	Tilgii-speed type. 1211111	Medium-speed type: 6mm		
Drive method	Ball screw, ø10	mm, rolled, C10		
Positioning repeatability	±0.02mm			
Base material	Dedicated alloy steel	Aluminum		
Surrounding air temperature/humidity	0 to 40°C, 85% RH or below (non-condensing)			

^{*} Refer to P. 90 for lengths other than those specified above.



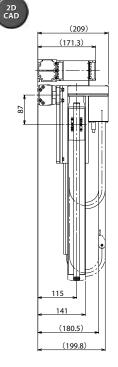
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Note 1. The connected position shown in the drawing defines the home

Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

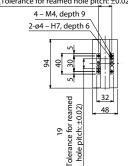
Note 3. For details on the cable track, refer to P. 90.

Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.

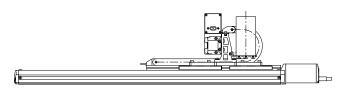


65 10 9 (70 3 (Y: Between ME and SE) Y:STROKE + 255 Y:STROKE+180 Y:STROKE 2.7 (Y: Between ME and SE) 5 (X: Between ME and SE) 5 (X: Between ME and SE) 122.5 155 112.5 X : STROKE 338.5 X: STROKE+451 (At least 125)

(Tolerance for reamed hole pitch: ±0.02)



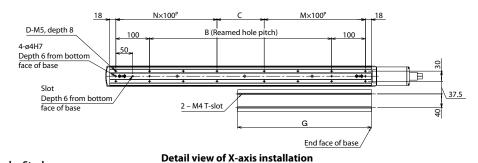
ME: Mechanical end SE: Stroke end



Detail view of Y-axis slider



Detail view of slot in bottom face of X-axis base



■Dimensions by Stroke

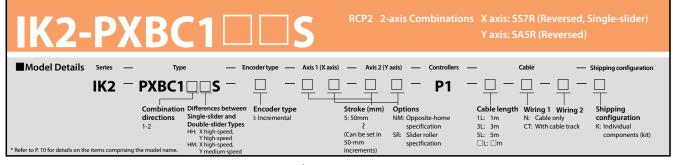
Nominal stroke	200	250	300	350	400	450	500	550	600
Effective stroke	50	100	150	200	250	300	350	400	450
В	140	190	240	290	340	390	440	490	540
C	140	190	40	90	140	190	40	90	140
D	8	8	12	12	12	12	16	16	16
M	1	1	2	2	2	2	3	3	3
N	1	1	2	2	2	2	3	3	3
G	197	222	247	272	297	322	347	372	397

Controllers

Applicable controller









X axis 600 mm Y axis 200 mm

■ Maximum Speed (High-speed type)

X axis 400 mm/s Y axis 600 mm/s

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X high-speed, Y medium-speed
50mm	4.5kg	9.0kg
100mm	4.5kg	9.0kg
150mm	4.0kg	8.0kg
200mm	3.0kg	6.0kg

Both wiring 1 and wiring 2 assume use of a cable track.

List by Stroke							
	Incremental						
	Y-axis stroke	50	100	150	200		
	50	-	_	-	-		
	100	-	-	-	-		
	150	-	-	-	-		
e e	200	-	-	-	-		
stroke	250	-	-	-	-		
sti	300	-	_	-	-		
.s	350	-	_	_	-		
ă×	400	-	_	-	-		
×	450	-	_	-	_		
	500	_	_	_	-		
	550	-	_	-	_		
	600	-	-	-	-		

List of by Cable Length						
Type	Length					
	1L	1m				
Standard type	3L	3m				
	-1	Γ				

- * Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.
- $\ensuremath{^{*}}$ Refer to P. 90 for lengths other than those specified above.

Cable track			
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600
			-
Minima 2 (Novetto V avia)	Y-axis stroke	50-200	-
Wiring 2 (Next to Y-axis)			_

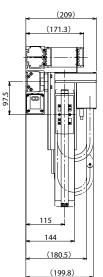
List of Options						
Name	Option code					
Opposite-home specification	NM					
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)				

Specifications				
Item	X axis	Y axis		
Axis model	RCP2-SS7R	RCP2-SA6R		
Stroke (Can be set in 50-mm increments)	50-600mm	50-200mm		
M	HH type: 400mm/s	High-speed type: 600mm/s		
Max speed	HM type: 250mm/s	Medium-speed type: 300mm/s		
Motor size	42-square pulse motor			
Ball screw lead	High-speed type: 12mm	High-speed type: 12mm		
Ball screw lead	riigii-speed type. rziiiiii	Medium-speed type: 6mm		
Drive method	Ball screw, ø10 mm, rolled, C10			
Positioning repeatability	±0.02mm			
Base material	Dedicated alloy steel	Aluminum		
Surrounding air temperature/humidity	0 to 40°C, 85% RH or below (non-condensing)			

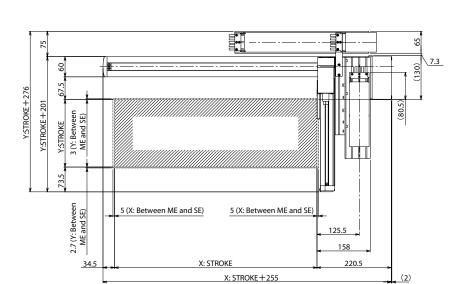
Dimensions

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(209)



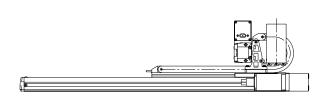
(Tolerance for reamed hole pitch: ± 0.02) 4 – M5, depth 9 2-ø5 – H7, depth 6 50 9 32 (Tolerance for reamed hole pitch: ±0.02)



Note 1. The connected position shown in the drawing defines the home Note 2. Both wiring 1 and wiring 2 assume use of a cable track. Note 3. For details on the cable track, refer to P. 90.

Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.

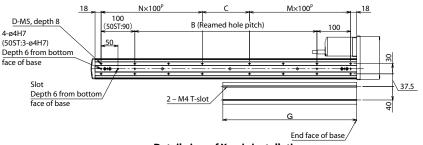
ME: Mechanical end SE: Stroke end



Detail view of Y-axis slider



Detail view of slot in bottom face of X-axis base



Detail view of X-axis installation

■ Dimensions by Stroke

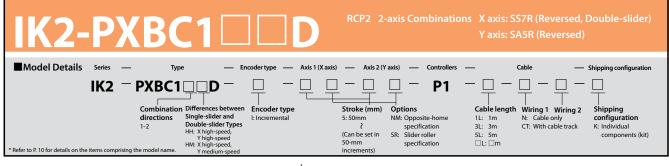
X: Model	50	100	150	200	250	300	350	400	450	500	550	600
В	0	40	90	140	190	240	290	340	390	440	490	540
С	90	40	90	140	190	40	90	140	190	40	90	140
D	6	8	8	8	8	12	12	12	12	16	16	16
M	1	1	1	1	1	2	2	2	2	3	3	3
N	0	1	1	1	1	2	2	2	2	3	3	3
G	122	147	172	197	222	247	272	297	322	347	372	397

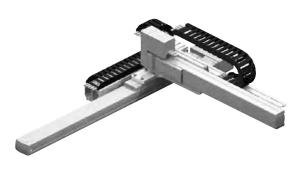
Controllers

Applicable controller









(X axis 450 mm) (Y axis 400 mm)

■ Maximum Speed (High-speed type)

X axis 400 mm/s Y axis 600 mm/s

■Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X high-speed, Y medium-speed
250mm	3.0kg	6.0kg
300mm	3.0kg	6.0kg
350mm	3.0kg	6.0kg
400mm	3.0kg	6.0kg

Both wiring 1 and wiring 2 assume use of a cable track.

	List by Stroke						
	Incremental						
	Y-axis stroke	250	300	350	400		
	50	-	_	_	_		
	100	-	-	-	-		
1 \$	150	-	_	-	_		
troke	200	-	-	-	-		
SS	250	-	_	_	_		
a X	300	-	-	-	-		
× -	350	-	_	-	_		
1^	400	-	-	-	-		
	450	-	_	_	_		

List by Cable Length						
Type Cable code Length						
	1L	1m				
Standard type	3L	3m				
	EI	Em				

- * Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.
- * Refer to P. 90 for lengths other than those specified above.

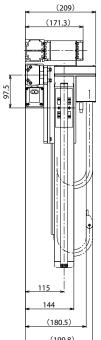
Cable track			
Wiring 1 (Novt to V avis)	X-axis stroke	50-300	350-450
Wiring 1 (Next to X-axis)			-
Mining 2 (North to Vorie)	Y-axis stroke	250-400	-
Wiring 2 (Next to Y-axis)			_

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)

Specifications					
Item	X axis	Y axis			
Axis model	RCP2-SS7R	RCP2-SA6R			
Stroke (Can be set in 50-mm increments)	50-450mm	250-400mm			
Manager and	HH type: 400mm/s	High-speed type: 600mm/s			
Max speed	HM type: 250mm/s	Medium-speed type: 300mm/s			
Motor size	42-square pulse motor				
Ball screw lead	High-speed type: 12mm	High-speed type: 12mm			
ball screw lead	Tilgii-speed type. 1211111	Medium-speed type: 6mm			
Drive method	Ball screw, ø10	mm, rolled, C10			
Positioning repeatability	±0.02	2mm			
Base material	Dedicated alloy steel	Aluminum			
Surrounding air temperature/humidity	0 to 40°C, 85% RH or below (non-condensing)				

Dimensions

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(199.8) 31 (<u>Tolerance for reamed hole pitch: ±0.02</u>) 4 – M5, depth 9 2-ø5 – H7, depth 6 9 20 32 (Tolerance for reamed hole pitch: ±0.02)

Detail view of Y-axis slider



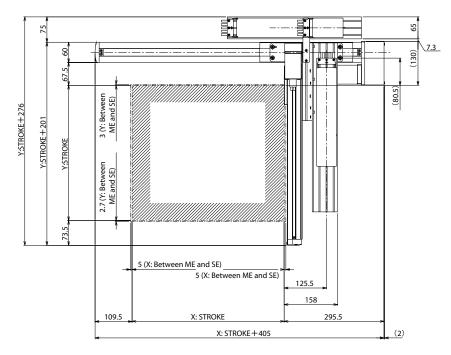
Detail view of slot in bottom face of X-axis base

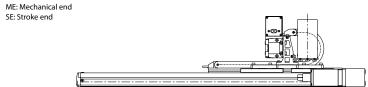
Note 1. The connected position shown in the drawing defines the home

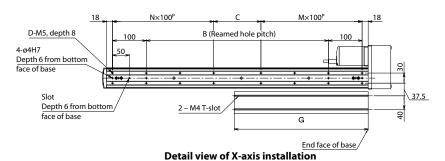
Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

Note 3. For details on the cable track, refer to P. 90.

Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.







■Dimensions by Stroke

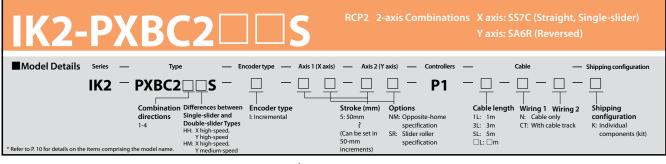
X: Nominal stroke	200	250	300	350	400	450	500	550	600
X: Effective stroke	50	100	150	200	250	300	350	400	450
В	140	190	240	290	340	390	440	490	540
С	140	190	40	90	140	190	40	90	140
D	8	8	12	12	12	12	16	16	16
M	1	1	2	2	2	2	3	3	3
N	1	1	2	2	2	2	3	3	3
G	197	222	247	272	297	322	347	372	397

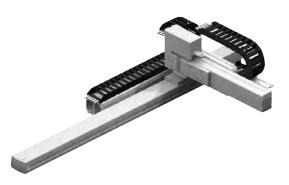
Controllers

Applicable controller









X axis 600 mm Y axis 200 mm

■ Maximum Speed (High-speed type)

X axis 400 mm/s Y axis 600 mm/s

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X high-speed, Y medium-speed
50mm	4.5kg	9.0kg
100mm	4.5kg	9.0kg
150mm	4.0kg	8.0kg
200mm	3.0kg	6.0kg

Both wiring 1 and wiring 2 assume use of a cable track.

List by Stroke								
Incremental								
	Y-axis stroke	50	100	150	200			
	50	-	_	_	-			
	100	-	-	-	-			
	150	-	-	-	1			
e e	200	-	-	-	1			
stroke	250	-	_	_	_			
str	300	-	-	-	-			
.s	350	-	_	-	-			
ä×	400	-	-	-	1			
×	450	-	_	-	-			
	500	_	_	_	_			
	550	-	_	-	-			
	600	-	-	-	-			

List by Cable Length							
Type Cable code Length							
	1L	1m					
Standard type	3L	3m					
		F					

- * Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.
- $\ensuremath{^{*}}$ Refer to P. 90 for lengths other than those specified above.

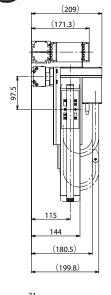
Cable track						
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600			
wiring i (Next to X-axis)			-			
Wiring 2 (Next to Y-axis)	Y-axis stroke	50-200	-			
Wiring 2 (Next to Y-axis)			-			

List of Options							
Name	Option code						
Opposite-home specification	NM						
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)					

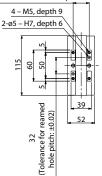
Specifications				
Item	X axis	Y axis		
Axis model	RCP2-SS7C	RCP2-SA6R		
Stroke (Can be set in 50-mm increments)	50-600mm	50-200mm		
Mayanad	HH type: 400mm/s	High-speed type: 600mm/s		
Max speed	HM type: 250mm/s	Medium-speed type: 300mm/s		
Motor size	42-square p	oulse motor		
Ball screw lead	High-speed type: 12mm	High-speed type: 12mm		
Ball screw lead	riigii-speed type. rziiiiii	Medium-speed type: 6mm		
Drive method	Ball screw, ø10	mm, rolled, C10		
Positioning repeatability	±0.02	2mm		
Base material	Dedicated alloy steel	Aluminum		
Surrounding air temperature/humidity 0 to 40°C, 85% RH or below (non-condensing)				

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(Tolerance for reamed hole pitch: ±0.02)



10 Y:STROKE + 201 (80.5) 3 (Y: Between ME and SE) Y:STROKE 2.7 (Y: Between ME and SE) 5 (X: Between ME and SE) 5 (X: Between ME and SE) 125.5 X: STROKE 266.5 34.5 X: STROKE + 301

Note 1. The connected position shown in the drawing defines the home Note 2. Both wiring 1 and wiring 2 assume use of a cable track. Note 3. For details on the cable track, refer to P. 90.

Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.

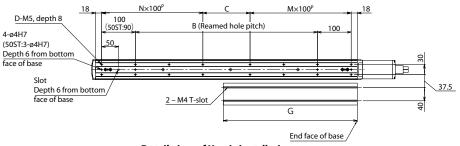
ME: Mechanical end SE: Stroke end



Detail view of Y-axis slider



Detail view of slot in bottom face of X-axis base



Detail view of X-axis installation

■Dimensions by Stroke

X: Model	50	100	150	200	250	300	350	400	450	500	550	600
В	0	40	90	140	190	240	290	340	390	440	490	540
С	90	40	90	140	190	40	90	140	190	40	90	140
D	6	8	8	8	8	12	12	12	12	16	16	16
M	1	1	1	1	1	2	2	2	2	3	3	3
N	0	1	1	1	1	2	2	2	2	3	3	3
G	122	147	172	197	222	247	272	297	322	347	372	397

Controllers

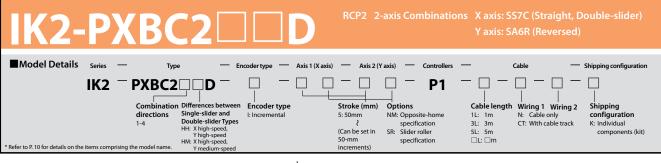
Applicable controller



Refer to P. 91 for the controllers.

(At least 125)







X axis 450 mm Y axis 400 mm

■ Maximum Speed (High-speed type)

X axis 400 mm/s Y axis 600 mm/s

■Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X high-speed, Y medium-speed
250mm	3.0kg	6.0kg
300mm	3.0kg	6.0kg
350mm	3.0kg	6.0kg
400mm	3.0kg	6.0kg

Both wiring 1 and wiring 2 assume use of a cable track.

	List by Stroke								
Incremental									
	Y-axis stroke	250	300	350	400				
	50	-	-	-	-				
۱	100	-	-	-	-				
troke	150	_	-	-	-				
tr	200	-	-	-	ı				
is s	250	-	-	-	-				
axi	300	-	-	-	-				
× -	350	-	-	-	-				
^	400	-	-	-	-				
	450	-	-	-	-				

List by Cable Length					
Type	Cable code	Length			
	1L	1m			
Standard type	3L	3m			
	51	5m			

 $[\]ensuremath{^{*}}$ Refer to P. 90 for lengths other than those specified above.

Cable track			
Wiring 1 (Novt to V avis)	X-axis stroke	50-300	350-450
Wiring 1 (Next to X-axis)			-
Minima 2 (Novet to Vovie)	Y-axis stroke	250-400	-
Wiring 2 (Next to Y-axis)			_

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)

Specifications				
Item	X axis	Y axis		
Axis model	RCP2-SS7C	RCP2-SA6R		
Stroke (Can be set in 50-mm increments)	50-450mm	250-400mm		
	HH type: 400mm/s	High-speed type: 600mm/s		
Max speed	HM type: 250mm/s	Medium-speed type: 300mm/s		
Motor size	42-square p	oulse motor		
Ball screw lead	High-speed type: 12mm	High-speed type: 12mm		
ball screw lead	riigii-speed type. rziiiiii	Medium-speed type: 6mm		
Drive method	Ball screw, ø10	mm, rolled, C10		
Positioning repeatability	±0.02	2mm		
Base material	Dedicated alloy steel	Aluminum		
Surrounding air temperature/humidity	0 to 40°C, 85% RH or below (non-condensing)			



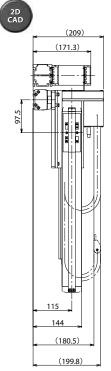
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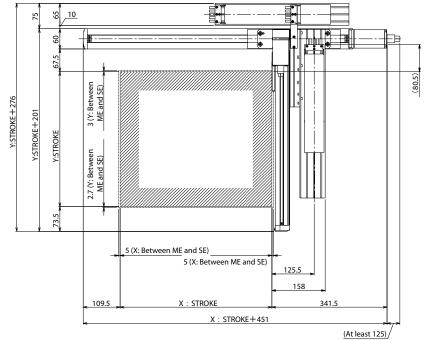
Note 1. The connected position shown in the drawing defines the home

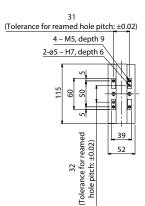
Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

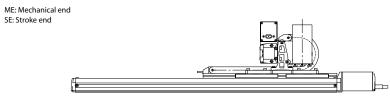
Note 3. For details on the cable track, refer to P. 90.

Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.





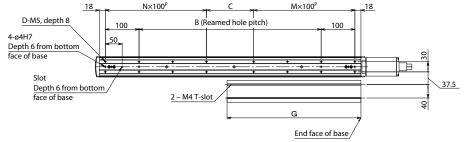




Detail view of Y-axis slider



Detail view of slot in bottom face of X-axis base



Detail view of X-axis installation

■Dimensions by Stroke

X: Nominal stroke	200	250	300	350	400	450	500	550	600
X: Effective stroke	50	100	150	200	250	300	350	400	450
В	140	190	240	290	340	390	440	490	540
С	140	190	40	90	140	190	40	90	140
D	8	8	12	12	12	12	16	16	16
M	1	1	2	2	2	2	3	3	3
N	1	1	2	2	2	2	3	3	3
G	197	222	247	272	297	322	347	372	397

Controllers

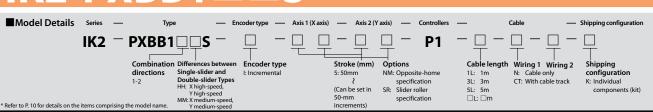
Applicable controller

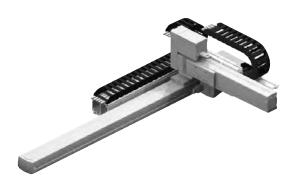


IK

IK2-PXBB1 LLS

RCP2 2-axis Combinations X axis: SS8R (Reversed, Single-slider)
Y axis: SA7R (Reversed)





■ Maximum Stroke

X axis 1000 mm Y axis 300 mm

■ Maximum Speed (High-speed type)

X axis 250 mm/s Y axis 450 mm/s

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X medium-speed, Y medium-speed					
50mm	8.0kg	16kg					
100mm	00mm 8.0kg 16kg						
150mm	7.0kg	15kg					
200mm	0mm 7.0kg 12.5kg						
250mm	0mm 6.0kg 9.0kg						
300mm	6.0kg	8.0kg					

Both wiring 1 and wiring 2 assume use of a cable track.

1	List by Stroke								
		Incremental							
	Y-axis stroke	50	100	150	200	250	300		
	50	-	-	_	-	-	-		
	100	-	-	_	-	-	-		
	150	_	-	-	-	-	-		
	200	_	-	-	-	-	_		
	250	_	_	_	-	-	-		
	300	-	-	-	-	-	_		
	350	-	-	_	-	-	_		
e e	400	-	-	_	-	-	_		
stroke	450	_	_	-	_	-	-		
	500	-	-	-	-	-	-		
X-axis	550	-	_	_	_	-	-		
- 9	600	-	-	-	-	-	_		
×	650	-	_	_	-	_	_		
	700	-	-	-	-	-	_		
	750	-	_	_	-	-	-		
	800	-	-	-	-	-	_		
	850	_	_	_	_	_	_		
	900	-	-	-	-	-	-		
	950	-	-	_	-	-	_		
	1000	-	-	-	-	-	-		

List by Cable Length Type Cable code Length 1L 1m Standard type 3L 3m

5L

* Axis 1 comes with a standard cable, while axis 2 comes with a robot	cable.
---	--------

5m

Cable track					
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600	650-900	950-1000
willing I (Next to X-axis)					
Wiring 2 (Next to Y-axis)	Y-axis stroke	50-200	250-300	_	_
wiring 2 (Next to Y-axis)				_	_

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis)

Specifications				
Item	X axis	Y axis		
Axis model	RCP2-SS8R	RCP2-SA7R		
Stroke (Can be set in 50-mm increments)	50-1000mm	50-300mm		
Manageral	High-speed type: 250mm/s	High-speed type: 450mm/s		
Max speed	Medium-speed type: 125mm/s	Medium-speed type: 220mm/s		
Motor size	56-square	pulse motor		
Ball screw lead	High-speed type: 20mm	High-speed type: 16mm		
Ball screw lead	Medium-speed type: 10mm	Medium-speed type: 8mm		
Drive method	Ball screw, ø16mm, rolled, C10	Ball screw, ø12mm, rolled, C10		
Positioning repeatability	±0.02mm			
Base material	Dedicated alloy steel	Aluminum		
Surrounding air temperature/humidity	0 to 40°C, 85% RH or below (non-condensing)			

^{*} Refer to P. 90 for lengths other than those specified above.



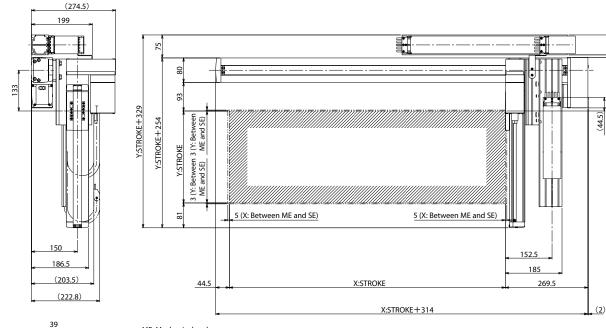
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Note 1. The connected position shown in the drawing defines the home

Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

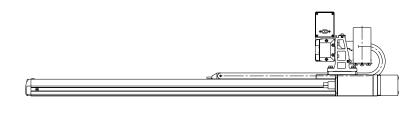
Note 3. For details on the cable track, refer to P. 90.

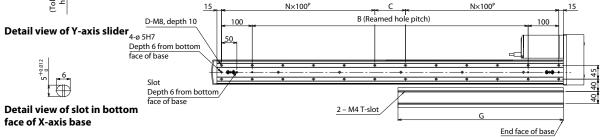
Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.



(Tolerance for reamed hole pitch: ±0.02) 4 – M5, depth 10 2-ø5 – H7, depth 10 8 32 (Tolerance for reamed hole pitch: ±0.02)

ME: Mechanical end SE: Stroke end





Detail view of X-axis installation

■ Dimensions by Stroke

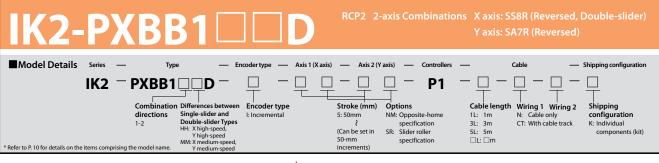
		, -																			
	X: Model	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
I	В	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
I	С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
I	D	8	8	8	10	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
I	N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
Ī	G	114.5	139.5	164.5	189.5	214.5	239.5	264.5	289.5	314.5	339.5	364.5	389.5	414.5	439.5	464.5	489.5	514.5	539.5	564.5	589.5

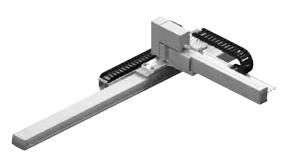
Controllers

Applicable controller









X axis 800 mm Y axis 400 mm

■ Maximum Speed (High-speed type)

X axis 250 mm/s Y axis 450 mm/s

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X medium-speed, Y medium-speed
200mm	_	15kg
250mm	-	12.5kg
300mm	_	12.5kg
350mm	6.0kg	12kg
400mm	5.5kg	10.5kg

Both wiring 1 and wiring 2 assume use of a cable track.

1	ist by Stroke										
		Incremental									
	Y-axis stroke	200	250	300	350	400					
	50	_	-	-	ı	-					
	100	-	-	-	I	_					
	150	-	-	_	I	_					
	200	_	_	_	ı	-					
	250	_	_	_	-	_					
- e	300	-	-	-	_	-					
stroke	350	_	_	_	-	_					
	400	1	_	_	I	-					
X-axis	450	_	_	_	ı	_					
- ê	500	-	_	_	_	_					
×	550	_	-	-	I	_					
	600	-	-	-	I	-					
	650	_	_	_	ı	_					
	700	_	-	-	-	-					
	750	_	-	-	ı	-					
	800	-	_	_	_	_					

Note: For the X high-speed/Y high-speed type, the Y-axis stroke must be 350 mm or more.

List by Cable Length								
Туре	Cable code	Length						
	1L	1m						
Standard type	3L	3m						
	5L	5m						

- * Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.
- $\ensuremath{^{*}}$ Refer to P. 90 for lengths other than those specified above.

Cable track				
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600	650-800
Willing I (Next to X-axis)				
Wiring 2 (Next to Y-axis)	Y-axis stroke	200	250-400	_
wiring 2 (Next to 1-axis)				_

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)

Specifications						
Specifications						
ltem	X axis	Y axis				
Axis model	RCP2-SS8R	RCP2-SA7R				
s: 1 (s 1 so	50-800mm	High-speed type: 350-400mm				
Stroke (Can be set in 50-mm increments)	50-800mm	Medium-speed type: 200-400mm				
Ma	High-speed type: 250mm/s	High-speed type: 450mm/s				
Max speed	Medium-speed type: 125mm/s	Medium-speed type: 220mm/s				
Motor size	56-square pulse motor					
Ball screw lead	High-speed type: 20mm	High-speed type: 16mm				
Dali Screw lead	Medium-speed type: 10mm	Medium-speed type: 8mm				
Drive method	Ball screw, ø16mm, rolled, C10	Ball screw, ø12mm, rolled, C10				
Positioning repeatability	±0.0	2mm				
Base material	Dedicated alloy steel	Aluminum				
Surrounding air temperature/humidity	0 to 40°C, 85% RH or below (non-condensing)					



Dimensions

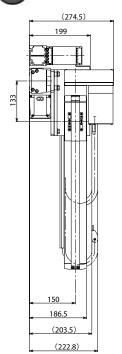
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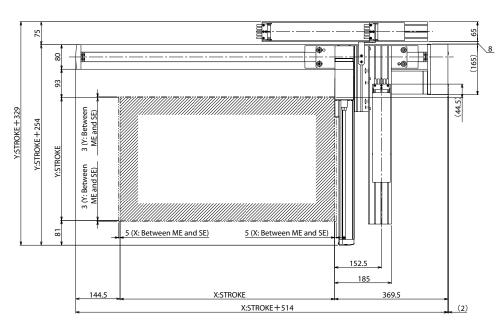


Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

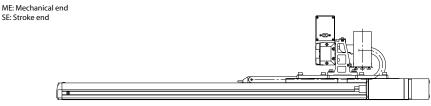
Note 3. For details on the cable track, refer to P. 90.

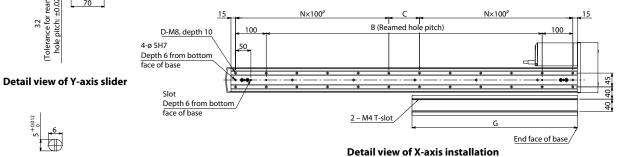
Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.





39 (Tolerance for reamed hole pitch: ± 0.02) <u>4 – M5, depth 10</u> 2-ø5 – H7, depth 10 90 32 (Tolerance for reamed hole pitch: ±0.02)





Detail view of slot in bottom face of X-axis base

■Dimensions by Stroke

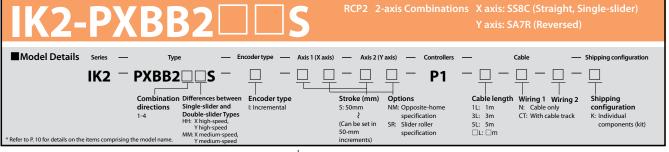
	<u> </u>															
X: Nominal stroke	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
X: Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
В	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	214.5	239.5	264.5	289.5	314.5	339.5	364.5	389.5	414.5	439.5	464.5	489.5	514.5	539.5	564.5	589.5

Controllers

Applicable controller









X axis 1000 mm Y axis 300 mm

■ Maximum Speed (High-speed type)

X axis 250 mm/s Y axis 450 mm/s

■ Maximum Load Capacity

Maximum Load Capacity									
Y-axis stroke	X high-speed, Y high-speed	X medium-speed, Y medium-speed							
50mm	8.0kg	16kg							
100mm	8.0kg	16kg							
150mm	7.0kg	15kg							
200mm	7.0kg	12.5kg							
250mm	6.0kg	9.0kg							
300mm	6.0kg	8.0kg							

Both wiring 1 and wiring 2 assume use of a cable track.

	ist by Stroke						
				Increr	nental		
	Y-axis stroke	50 100		150	200	250	300
	50	ı	-	-	-	ı	-
	100	ı	-	-	-	ı	-
	150	ı	-	_	-	ı	-
	200	_	-	-	-	_	_
	250	ı	-	-	-	ı	-
	300	ı	-	-	-	ı	-
	350	ı	-	-	-	ı	-
e e	400	I	-	_	-	ı	-
stroke	450	-	_	_	-	-	_
st	500	-	-	-	-	-	-
.s	550	ı	-	-	-	ı	-
-axis	600	ı	-	-	-	ı	-
×	650	ı	-	_	-	ı	_
	700	-	-	-	-	-	-
	750	_	-	_	-	-	_
	800	-	-	-	-	1	-
	850	ı	-	_	-	ı	-
	900	ı	-	-	-	ı	1
	950	-	-	-	-	-	-
	1000	-	-	-	-	-	-

Cable track

Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600	650-900	950-1000
Willing I (Next to X-axis)					
Wiring 2 (Next to Y-axis)	Y-axis stroke	50-200	250-300	-	-
wiring 2 (Next to 1-axis)				_	_

List by Cable Length

Туре	Cable code	Length
	1L	1m
Standard type	3L	3m
	51	5m

^{*} Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)

Specifications				
Item	X axis	Y axis		
Axis model	RCP2-SS8C	RCP2-SA7R		
Stroke (Can be set in 50-mm increments)	50-1000mm	50-300mm		
M	High-speed type: 250mm/s	High-speed type: 450mm/s		
Max speed	Medium-speed type: 125mm/s	Medium-speed type: 220mm/s		
Motor size	56-square pulse motor			
Ball screw lead	High-speed type: 20mm	High-speed type: 16mm		
ball screw lead	Medium-speed type: 10mm	Medium-speed type: 8mm		
Drive method	Ball screw, ø16mm, rolled, C10	Ball screw, ø12mm, rolled, C10		
Positioning repeatability	±0.02mm			
Base material	Dedicated alloy steel	Aluminum		
Surrounding air temperature/humidity	0 to 40℃, 85% RH or bel	ow (non-condensing)		

 $[\]ensuremath{^{*}}$ Refer to P. 90 for lengths other than those specified above.



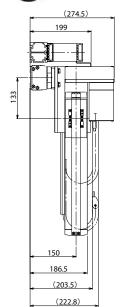
Dimensions

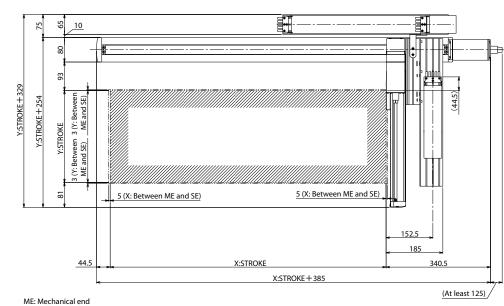


Note 1. The connected position shown in the drawing defines the home. Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

Note 3. For details on the cable track, refer to P. 90.

Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.

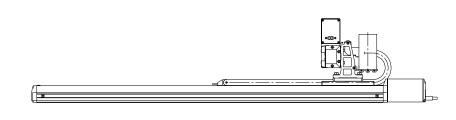


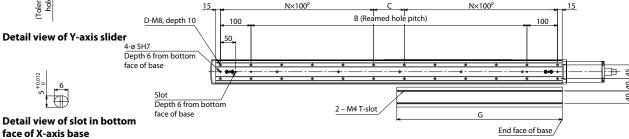


(Tolerance for reamed hole pitch: ±0.02) 4 – M5, depth 10 2-ø5 – H7, depth 10 32 (Tolerance for reamed hole pitch: ±0.02)

39

SE: Stroke end





Detail view of X-axis installation

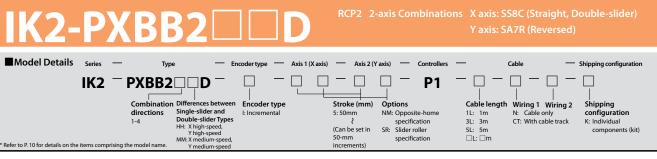
■Dimensions by Stroke

	, .																			
X: Model	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
В	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	8	8	8	10	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	114.5	139.5	164.5	189.5	214.5	239.5	264.5	289.5	314.5	339.5	364.5	389.5	414.5	439.5	464.5	489.5	514.5	539.5	564.5	589.5

Controllers

Applicable controller







(X axis 800 mm) (Y axis 400 mm)

■ Maximum Speed (High-speed type)

X axis 250 mm/s Y axis 450 mm/s

■Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X medium-speed, Y medium-speed					
200mm	_	15kg					
250mm	-	12.5kg					
300mm	_	12.5kg					
350mm	6.0kg	12kg					
400mm	5.5kg	10.5kg					

Both wiring 1 and wiring 2 assume use of a cable track.

L	ist by Stroke								
		Incremental							
	Y-axis stroke	200	300	350	400				
	50	ı	-	ı	ı	-			
	100	ı	-	ı	I	-			
	150	ı	_	ı	ı	_			
	200	_	_	_	_	_			
	250	ı	-	ı	ı	-			
e	300	ı	-	ı	ı	-			
stroke	350	ı	-	ı	I	_			
stı	400	_	-	_	_	_			
i.s	450	1	-	-	-	-			
-axi	500	ı	-	1	ı	-			
×	550	ı	-	ı	I	-			
	600	-	-	-	_	-			
	650	ı	-	-	-	-			
	700	1	-	-	-	-			
	750	-	-	-	-	-			
	800	-	-	-	-	-			

Note: For the X high-speed/Y high-speed type, the Y-axis stroke must be 350 mm or more.

List by Cable Length							
Туре	Cable code	Length					
	1L	1m					
Standard type	3L	3m					
	51	5m					

 $[\]mbox{\ensuremath{^{*}}}$ Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

Cable track				
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600	650-800
Willing I (Next to A-axis)				
Wiring 2 (Next to Y-axis)	Y-axis stroke	200	250-400	-
wiring 2 (Next to 1-axis)				_

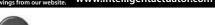
List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)

Specifications					
Item	X axis	Y axis			
Axis model	RCP2-SS8C	RCP2-SA7R			
6. 1 (6. 1 50	50-800mm	High-speed type: 350-400mm			
Stroke (Can be set in 50-mm increments)	50-800mm	Medium-speed type: 200-400mm			
Mayanaad	High-speed type: 250mm/s	High-speed type: 450mm/s			
Max speed	Medium-speed type: 125mm/s	Medium-speed type: 220mm/s			
Motor size	56-square	pulse motor			
Ball screw lead	High-speed type: 20mm	High-speed type: 16mm			
ball screw lead	Medium-speed type: 10mm	Medium-speed type: 8mm			
Drive method	Ball screw, ø16mm, rolled, C10	Ball screw, ø12mm, rolled, C10			
Positioning repeatability	±0.02mm				
Base material	Dedicated alloy steel	Aluminum			
Surrounding air temperature/humidity	0 to 40°C, 85% RH or below (non-condensing)				

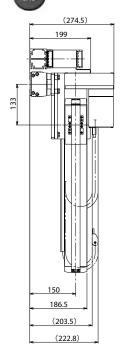
^{*} Refer to P. 90 for lengths other than those specified above.

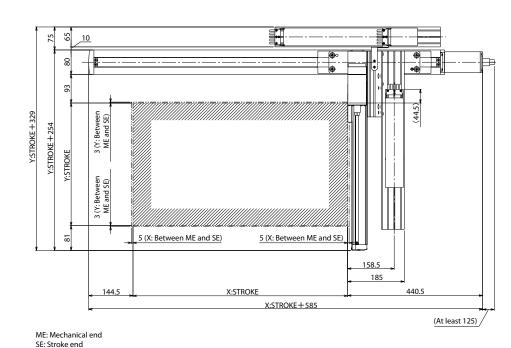


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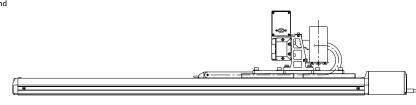


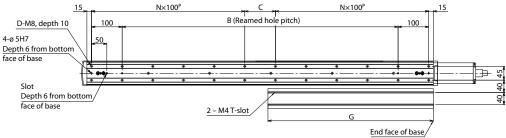
- Note 1. The connected position shown in the drawing defines the home
- Note 2. Both wiring 1 and wiring 2 assume use of a cable track.
- Note 3. For details on the cable track, refer to P. 90.
- Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.





(Tolerance for reamed hole pitch: ± 0.02) 4 – M5, depth 10 2-ø5 – H7, depth 10 32 (Tolerance for reamed hole pitch: ±0.02)





Detail view of slot in bottom face of X-axis base

Detail view of Y-axis slider

Detail view of X-axis installation

■Dimensions by Stroke

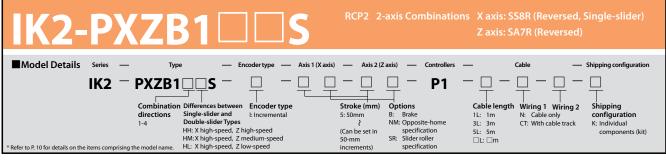
	•															
X: Nominal stroke	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
X: Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
В	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	214.5	239.5	264.5	289.5	314.5	339.5	364.5	389.5	414.5	439.5	464.5	489.5	514.5	539.5	564.5	589.5

Controllers

Applicable controller









Wiring 1 with cable track

-								
M	avi	im	 m	S	tr	^	L,	_

X axis 1000 mm	Z axis 250 mm

■ Maximum Speed (High-speed type)

		-		
X axis	250 mm/s) (7 axis	360 mm/s
(Manie		ノーツ		

■ Maximum Load Capacity

Maximum Lo	ua capacity				
Z-axis stroke	Z high-speed, lead 16	Z medium-speed, lead 8	Z low-speed, lead 4		
50mm	2.0kg	4.0kg	8.0kg		
100mm	2.0kg	4.0kg	7.0kg		
150mm	2.0kg	3.5kg	5.0kg		
200mm	2.0kg	3.5kg	4.0kg		
250mm	1.5kg	2.5kg	3.0kg		

1	ist by Stroke					
				Incremental		
	Z -axis stroke	50	100	150	200	250
	50	-	-	-	_	_
	100	-	-	-	-	-
	150	_	_	_	_	-
	200	-	-	-	-	-
	250	-	_	_	_	-
	300	-	-	-	-	-
	350			_	_	-
e e	400	-	-	-	_	-
stroke	450	_	_	_	_	_
st	500	-	-	-	-	-
i.S	550	_	_	_	_	_
X-axis	600	-	-	_	_	-
×	650	_	_	_	_	_
	700	-	-	-	-	_
	750	-	-	_	_	-
	800	-	-	-	-	-
	850	-	_	_	_	_
	900	-	_	-	-	_
	950	-	-	_	_	_
1	1000	_	-	_	_	_

Cable track					
Wiring 1 (Next to X-axis)	X-axis stroke	150-300	350-600	650-900	950-1000
wiring I (Next to X-axis)					

List by Cable Length									
Туре	Cable code	Length							
	1L	1m							
Standard type	3L	3m							
	5L	5m							

* Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Z-axis)

Specifications				
Item	X axis	Z axis		
Axis model	RCP2-SS8R	RCP2-SA7R		
Stroke (Can be set in 50-mm increments)	50-1000mm	50-250mm		
		High-speed type: 360mm/s		
Max speed	High-speed type: 250mm/s	Medium-speed type: 180mm/s		
		Low-speed type: 90mm/s		
Motor size	56-square p	oulse motor		
		High-speed type: 16mm		
Ball screw lead	High-speed type: 20mm	Medium-speed type: 8mm		
		Low-speed type: 4mm		
Drive method	Ball screw, ø16mm, rolled, C10	Ball screw, ø12mm, rolled, C10		
Positioning repeatability	±0.00	2mm		
Base material	Dedicated alloy steel	Aluminum		
Surrounding air temperature/humidity	0 to 40°C, 85% RH or bel	ow (non-condensing)		

^{*} Refer to P. 90 for lengths other than those specified above.



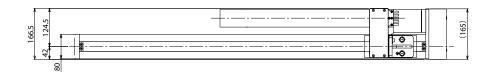
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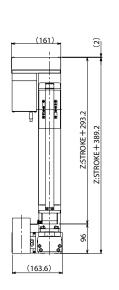


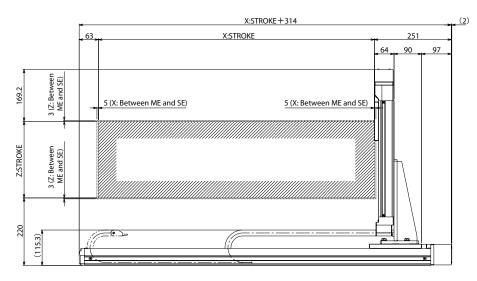
Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

Note 3. For details on the cable track, refer to P. 90.

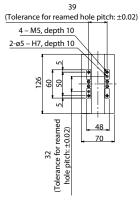
Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.

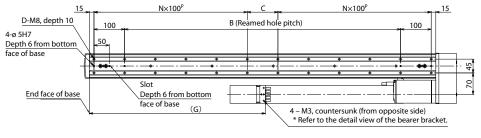






ME: Mechanical end SE: Stroke end





Detail view of X-axis installation

Detail view of Z-axis slider Detail view of slot in bottom face of X-axis base

■Dimensions by Stroke

		•																			
ſ	X: Model	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
ı	В	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
I	С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
I	D	8	8	8	10	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
ı	N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
ı	G	-	-	199	224	249	274	299	324	349	374	399	424	449	474	499	524	549	574	599	624

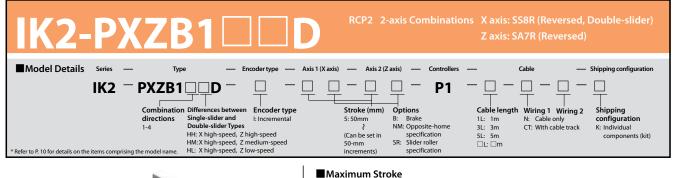
^{*} A bearer is not set when the X stroke is 50 or 100.

Controllers

Applicable controller







List of Options Name

Opposite-home specification

Aluminum

Slider roller specification



Wiring 1 with cable track

	M	axi	imu	m S	tro	ke
--	---	-----	-----	-----	-----	----

X axis 800 mm	Z axis 300 mm
Turney Coo min	500 11111

■ Maximum Speed (High-speed type)

X axis	250 mm/s) (Z axis	400 mm/s

■ Maximum Load Capacity

Z-axis stroke	Z high-speed, lead 16	Z medium-speed, lead 8	Z low-speed, lead 4
150mm	-	-	7.0kg
200mm	-	-	7.0kg
250mm	-	-	5.5kg
300mm	1.5kg	3.0kg	5.5kg

L	List by Stroke									
	Incremental									
	Z-axis stroke	150	200	250	300					
	50	-	-	_	-					
	100	-	-	-	_					
	150	ı	_	-	_					
	200	ı	-	-	-					
	250	-	-	-	-					
e e	300	-	-	-	-					
stroke	350	1	-	_	_					
sti	400	ı	-	-	-					
. <u>s</u>	450	ı	-	-	_					
X-axis	500	-	-	-	-					
×	550	-	-	_	_					
	600	-	-	-	-					
	650	ı	-	-	_					
	700	-	-	-	-					
	750	_	-	_	-					
	800	ı	-	-	1					

Note: For the Z high-speed type and Z medium-speed type, The Z-axis stroke is limited to 300 mm.

Cable track				
Wiring 1 (Next to X-axis)	X-axis stroke	150-300	350-600	650-800
wiring I (Next to X-axis)				

Axis 1 (X-axis)

Axis 2 (Z-axis)

Option code

NM

SR

List by Cable Length					
Туре	Cable code	Length			
Standard type	1L	1m			
	3L	3m			
	5L	5m			

* Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

^{*} Refer to P. 90 for lengths other than those specified above.

Specifications					
Item	X axis	Z axis			
Axis model	RCP2-SS8R	RCP2-SA7R			
		High-speed type: 300mm			
Stroke (Can be set in 50-mm increments)	50-800mm	Medium-speed type: 300mm			
,		Low-speed type: 150-300mm			
		High-speed type: 400mm/s			
Max speed	High-speed type: 250mm/s	Medium-speed type: 200mm/s			
		Low-speed type: 100mm/s			
Motor size	56-square p	oulse motor			
		High-speed type: 16mm			
Ball screw lead	High-speed type: 20mm	Medium-speed type: 8mm			
		Low-speed type: 4mm			
Drive method	Ball screw, ø16mm, rolled, C10	Ball screw, ø12mm, rolled, C10			
Positioning repeatability	±0.02mm				

Dedicated alloy steel

0 to 40°C, 85% RH or below (non-condensing)

Base material

Surrounding air temperature/humidity

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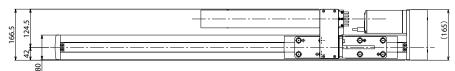


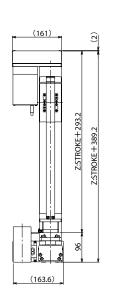
Note 1. The connected position shown in the drawing defines the home

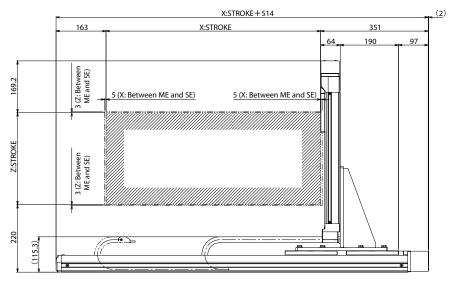
Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

Note 3. For details on the cable track, refer to P. 90.

Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90

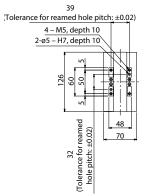


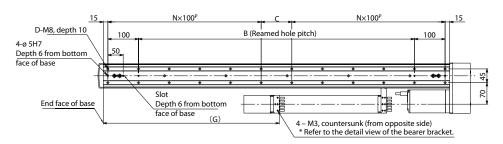




ME: Mechanical end

SE: Stroke end





Detail view of X-axis installation

Detail view of Z-axis slider



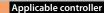
Detail view of slot in bottom face of X-axis base

■Dimensions by Stroke

X: Nominal stroke	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
X: Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
В	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	-	-	299	324	349	374	399	424	449	474	499	524	549	574	599	624

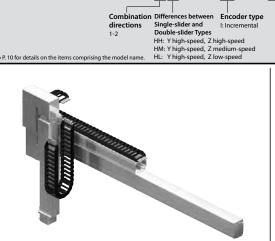
^{*} A bearer is not set when the X stroke is 50 or 100.

Controllers





■Model Details — Encoder type — Axis 1 (Y axis) — Axis 2 (Z axis) — Controllers — Cable — Shipping configuration \Box -PYBB1□□S **P1** IK2 Stroke (mm) Cable length Wiring 1 Wiring 2 1L: 1m N: Cable only 3L: 3m CT: With cable track



Both wiring 1 and wiring 2 assume use of a cable track.

■Maximum St	roke
increments)	
50-mm	SR:
(Carr DC 3Ct III	

(Can be set in

5: 50mm

(Y axis	1000 mm) (Zaxis	300 mm)
- (I axis	I UUU mm	, ,	L axis	300 mm)

Maximum Speed (High-speed type)

Options

B: Brake NM: Opposite-hom specification SR: Slider roller

Maximum speed (High-speed type)						
Y axis 250 mm/s	Z axis 360 mm/s					

■ Maximum Load Capacity

Z-axis stroke	Z high-speed, lead 16	Z medium-speed, lead 8	Z low-speed, lead 4
50mm	2.0kg	4.0kg	8.0kg
100mm	2.0kg	4.0kg	8.0kg
150mm	2.0kg	3.5kg	7.0kg
200mm	2.0kg	3.5kg	7.0kg
250mm	1.5kg	3.0kg	6.0kg
300mm	1.5kg	3.0kg	5.5kg

1L: 1m 3L: 3m 5L: 5m

Shipping configuration K: Individual

components (kit)

	ist by Stroke										
	ist by stroke										
		Incremental									
	Z-axis stroke	50	100	150	200	250	300				
	50	-	_	-	-	-	-				
	100	-	-	-	-	-	-				
	150	-	-	-	-	-	-				
	200	_	-	-	-	-	-				
	250	-	-	-	-	-	-				
	300	-	-	-	-	-	-				
	350	-	_	_	-	_	_				
به ا	400	-	-	-	-	-	-				
stroke	450	-	-	-	-	-	-				
sti	500	_	-	_	-	_	-				
.s	550	_	_	_	_	_	-				
Y-axis	600	-	-	-	-	-	-				
>	650	-	-	-	-	-	-				
	700	_	-	-	-	-	-				
	750	_	-	-	-	-	_				
	800	1	-	-	-	-	-				
	850	-	-	-	-	-	-				
	900	-	-	-	-	-	-				
	950	-	-	-	-	-	-				
	1000	-	-	-	-	-	-				

Cable track

Wiring 1 (Next to Y-axis)	Y-axis stroke	50-300	350-600	650-900	950-1000
wiring I (Next to Y-axis)					
Wiring 2 (Next to Z-axis)	Z-axis stroke	50-200	250-300	-	-
Willing 2 (Next to 2-axis)				_	_

List by Cable Length

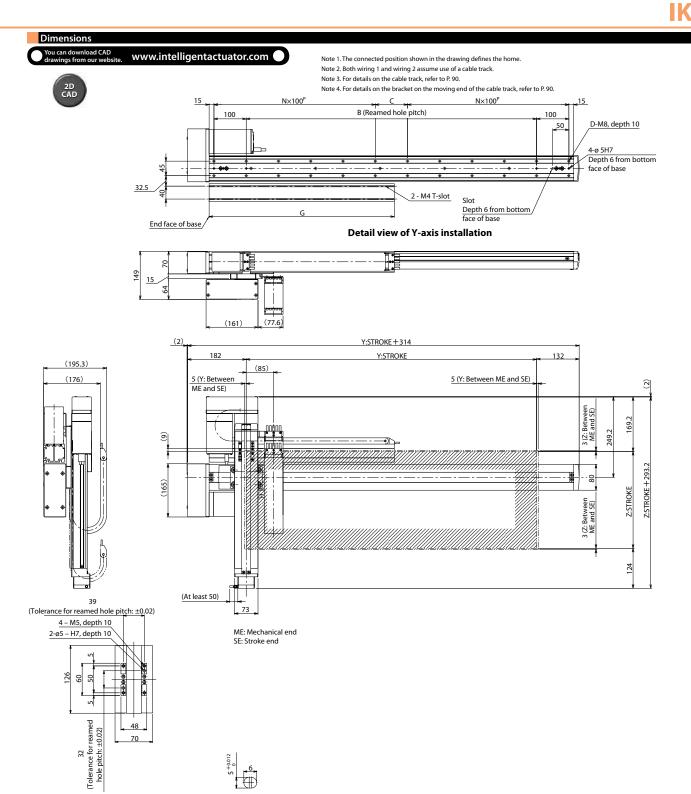
Type	Cable code	Length
	1L	1m
Standard type	3L	3m
	5L	5m

* Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (Y-axis)

Specifications					
Item	Y axis	Z axis			
Axis model	RCP2-SS8R	RCP2-SA7R			
Stroke (Can be set in 50-mm increments)	50-1000mm	50-300mm			
		High-speed type: 360mm/s			
Max speed	High-speed type: 250mm/s	Medium-speed type: 180mm/s			
		Low-speed type: 90mm/s			
Motor size	56-square pulse motor				
		High-speed type: 16mm			
Ball screw lead	High-speed type: 20mm	Medium-speed type: 8mm			
		Low-speed type: 4mm			
Drive method	Ball screw, ø16mm, rolled, C10	Ball screw, ø12mm, rolled, C10			
Positioning repeatability	±0.02	mm			
Base material	Dedicated alloy steel	Aluminum			
Surrounding air temperature/humidity	0 to 40°C, 85% RH or below (non-condensing)				

 $[\]ensuremath{^{*}}$ Refer to P. 90 for lengths other than those specified above.



Detail view of Z-axis slider Detail view of slot in bottom face of Y-axis base

■ Dimensions by Stroke

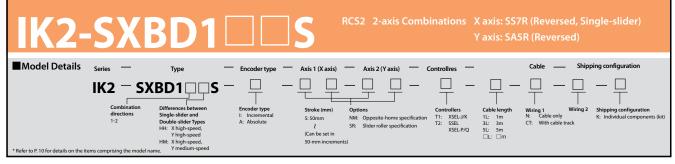
Y: Model	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
В	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	8	8	8	10	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	149	174	199	224	249	274	299	324	349	374	399	424	449	474	499	524	549	574	599	624

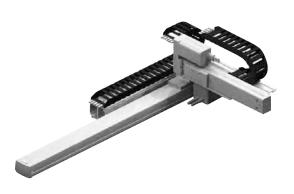
Controllers

Applicable controller









Both wiring 1 and wiring 2 assume use of a cable track.

■ Maximum Stroke

X axis	600 mm	Y axis	200 mm	
X axis	600 mm	Y axis	200 mm	

■Maximum Speed

	High-speed type	Medium-speed type
X axis	600mm/s	-
Y axis	800mm/s	400mm/s

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X high-speed, Y medium-speed
50mm	3.0kg	6.0kg
100mm	3.0kg	6.0kg
150mm	2.5kg	5.0kg
200mm	2.5kg	5.0kg

L	List by Stroke												
		Incremental Absolute											
	Y-axis stroke	50	100	150	200	50	100	150	200				
	50		-	-	-	-	-	-	-				
	100	-	-	-	-	-	-	-	-				
	150	-	-	-	-	-	-	-	-				
ο	200	-	-	-	-	-	-	-	-				
8	250	-	-	-	-	-	-	-	-				
str	300	-	-	-	-	-	-	-	-				
·s	350	-	-	-	-	_	-	-	-				
ä×	400	-	-	-	-	-	-	-	-				
×	450	-	-	-	-	-	-	-	-				
	500	-	-	-	-	-	-	-	-				
	550	-	-	-	-	-	-	-	-				
	600	-	-	-	-	-	-	-	-				

Cable track									
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600						
Willing I (Next to X-axis)		-	-						
Wiring 2 (Next to Y-axis)	Y-axis stroke	50-200	-						
Wiring 2 (Next to Y-axis)		-	-						

List by Cable Length								
Туре	Cable code Length							
	1L	1m						
Standard type	3L	3m						
	5L	5m						

* Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

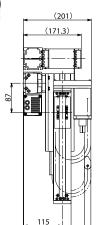
List of Options	
Name	Option code
Opposite-home specification	NM
Slider roller specification	SR

Specification	nc .					
	Item	Ха	xis	Y axis		
Axis model		RCS2-	SS7R	RCS2-SA5R		
Stroke (Can be se-	t in 50-mm increments)	50-600	0mm	50-200mm		
	Stroke	50-500mm	550-600mm	50-200mm		
Max speed	High speed	600mm/s	470mm/s	800mm/s		
	Medium speed	-	-	400mm/s		
Motor output (W)		60\	W	20W		
		High-speed type: 12mm		High-speed type: 12mm		
Ball screw lead				Medium-speed type: 6mm		
Drive method		Ball screw, ø10 mm, rolled, C10				
Positioning repea	tability	±0.02mm				
Base material		Dedicated alloy steel		Aluminum		
Surrounding air te	emperature/humidity	0 to 40°C, 85% RH or below (non-condensing)				

^{*} Refer to P. 90 for lengths other than those specified above.



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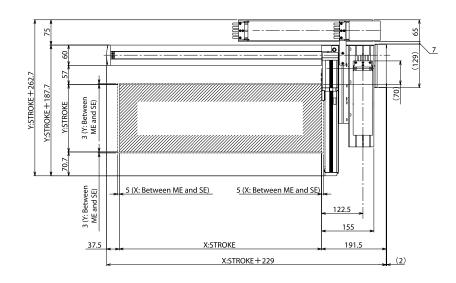


Note 1. The connected position shown in the drawing defines the home

Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

Note 3. For details on the cable track, refer to P. 90.

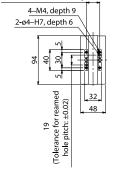
Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.



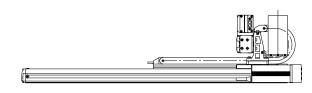


(180.5)

(199.8)



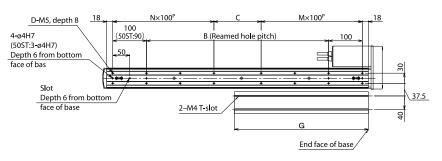
ME: Mechanical end SE: Stroke end



Detail view of Y-axis slider



Detail view of slot in bottom face of X-axis base



Detail view of X-axis installation

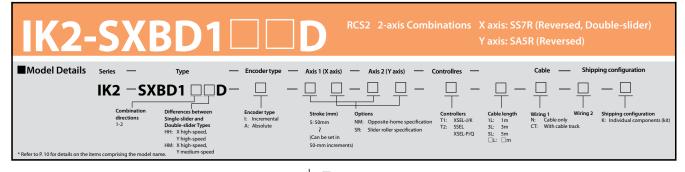
■ Dimensions by Stroke

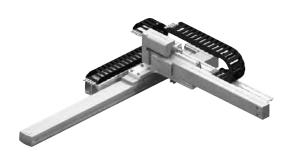
	•											
X: Nominal stroke	50	100	150	200	250	300	350	400	450	500	550	600
В	0	40	90	140	190	240	290	340	390	440	490	540
С	90	40	90	140	190	40	90	140	190	40	90	140
D	6	8	8	8	8	12	12	12	12	16	16	16
M	1	1	1	1	1	2	2	2	2	3	3	3
N	0	1	1	1	1	2	2	2	2	3	3	3
G	122	147	172	197	222	247	272	297	322	347	372	397

Controllers

Applicable controller







■ Maximum Stroke

X axis 450 mm Y axis 400 mm

■ Maximum Speed

	High-speed type	Medium-speed type
X axis	600mm/s	_
Y axis	800mm/s	400mm/s

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X high-speed, Y medium-speed
250mm	2.5kg	5.0kg
300mm	2.0kg	4.0kg
350mm	2.0kg	4.0kg
400mm	2.0kg	4.0kg

Both wiring 1 and wiring 2 assume use of a cable track.

List	by Stroke								
			Incren	nental			Abso	olute	
	Y-axis stroke	250	300	350	400	250	300	350	400
	50	_	_	-	_	-	_	-	_
	100	-	-	-	-	-	-	-	-
oke	150	-	_	-	_	-	_	-	_
≒	200	-	-	-	-	-	-	-	-
l is	250	-	-	-	-	-	-	-	-
axi	300	-	-	-	-	-	-	-	-
× ×	350	-	-	-	-	-	-	-	-
	400	-	-	-	-	-	-	-	-
	450		-	-	_	-	_	-	_

Cable track							
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-450				
		-	-				
Wiring 2 (Next to Y-axis)	Y-axis stroke	250-400	-				
		-	=				

List by Cable Length						
Туре	ype Cable code Length					
	1L	1m				
Standard type	3L	3m				
	5L	5m				

^{*} Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

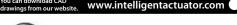
Option code
NM
SR

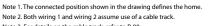
Specifications						
Specifications						
Item		Ха	xis	Y axis		
Axis model		RCS2-	SS7R	RCS2-SA5R		
Stroke (Can be set in 5	0-mm increments)	50-450	0mm	250-400mm		
	Stroke	50-350mm	400-450mm	250-400mm		
Max speed	High speed	600mm/s	470mm/s	800mm/s		
· ·	Medium speed	-	-	400mm/s		
Motor output (W)		60'	W	20W		
Dell consulted d		High-speed type: 12mm		High-speed type: 12mm		
Ball screw lead				Medium-speed type: 6mm		
Drive method		Ball screw, ø10 mm, rolled, C10				
Positioning repeatabil	Positioning repeatability		±0.02mm			
Base material		Dedicated alloy steel		Aluminum		
Surrounding air tempe	erature/humidity	0 to 40°C, 85% RH or below (non-condensing)				

^{*} Refer to P. 90 for lengths other than those specified above.



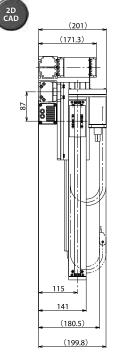
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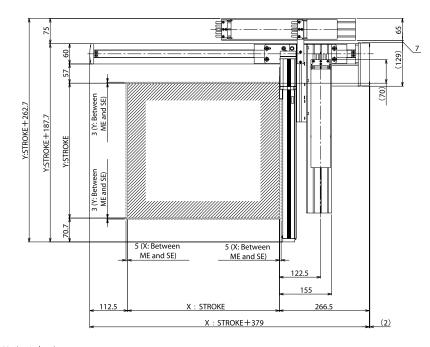




Note 3. For details on the cable track, refer to P. 90.

Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.





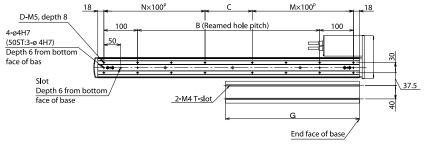
26 (Tolerance for reamed hole pitch: ± 0.02) 4-M4, depth 9 2-ø4-H7, depth 6 19 (Tolerance for reamed hole pitch: ±0.02) 48



Detail view of Y-axis slider



Detail view of slot in bottom face of X-axis base



Detail view of X-axis installation

■ Dimensions by Stroke

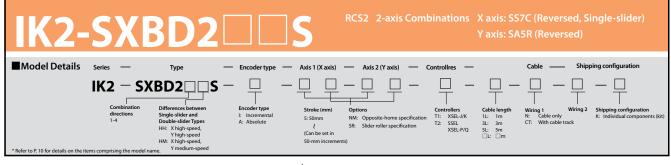
X: Nominal stroke	200	250	300	350	400	450	500	550	600
X: Effective stroke	50	100	150	200	250	300	350	400	450
В	140	190	240	290	340	390	440	490	540
С	140	190	40	90	140	190	40	90	140
D	8	8	12	12	12	12	16	16	16
M	1	1	2	2	2	2	3	3	3
N	1	1	2	2	2	2	3	3	3
G	197	222	247	272	297	322	347	372	397

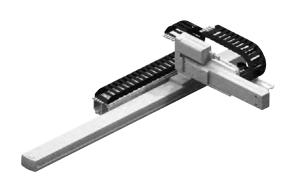
Controllers

Applicable controller









Both wiring 1 and wiring 2 assume use of a cable track.

■ Maximum Stroke

X axis	600 mm	Y axis	200 mm	

■Maximum Speed

	High-speed type	Medium-speed type
X axis	600mm/s	_
Y axis	800mm/s	400mm/s

■ Maximum Load Capacity

Y-axis stroke	Y-axis stroke X high-speed, Y high-speed			
50mm	3.0kg	6.0kg		
100mm	3.0kg	6.0kg		
150mm	2.5kg	5.0kg		
200mm	2.5kg	5.0kg		

1	List by Stroke											
			Increr	nental		Abso	olute					
	Y-axis stroke	50	100	150	200	50	100	150	200			
	50	_	-	ı	-	-	-	-	_			
	100	-	_	ı	-	_	-	-	-			
	150	_	_	_	_	_	_	_	_			
e e	200	-	-	-	-	-	-	-	-			
1 0	250	-	-	ı	-	-	-	-	_			
str	300	-	-	-	-	-	-	-	_			
<u>:</u>	350	-	_	-	_	_	_	_	-			
-a×	400	-	-	-	-	_	-	_	_			
×	450	-	_	-	_	-	-	_	-			
	500	-	-	-	-	-	-	-	-			
	550	-	_	-	_	-	_	-	-			
	600	-	-	-	-	_	-	-	_			

Cable track							
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600				
		-	-				
Wiring 2 (Next to Y-axis)	Y-axis stroke	50-200	-				
		-	_				

List by Cable Length						
Type Cable code Length						
	1L	1m				
Standard type	3L	3m				
	5L	5m				

* Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

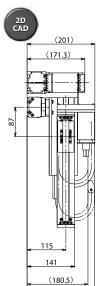
List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)

Specifications					
ltem		X a:	xis	Y axis	
Axis model		RCS2-S	SS7C	RCS2-SA5R	
Stroke (Can be set in 5	0-mm increments)	50-600)mm	50-200mm	
	Stroke	50-500mm	550-600mm	50-200mm	
Max speed	High speed	600mm/s	470mm/s	800mm/s	
·	Medium speed	-	-	400mm/s	
Motor output (W)		60\	N	20W	
Ball screw lead		High-speed type: 12mm		High-speed type: 12mm Medium-speed type: 6mm	
Drive method		Ball screw, ø10 mm, rolled, C10			
Positioning repeatabili	ty	±0.02mm			
Base material		Dedicated alloy steel		Aluminum	
Surrounding air tempe	rature/humidity	0 to 40°C, 85% RH or below (non-condensing)			

 $[\]ensuremath{^{*}}$ Refer to P. 90 for lengths other than those specified above.



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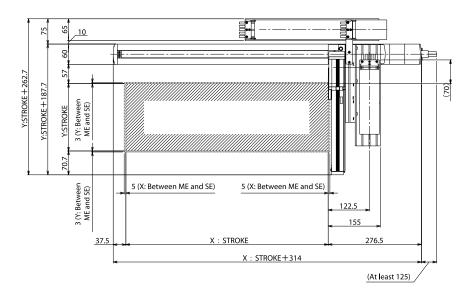


Note 1. The connected position shown in the drawing defines the home.

Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

Note 3. For details on the cable track, refer to P. 90.

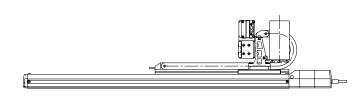
Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.



26 (Tolerance for reamed hole pitch: ± 0.02) 4–M4, depth 9 2-ø4-H7, depth 6 19 (Tolerance for reamed

(199.8)

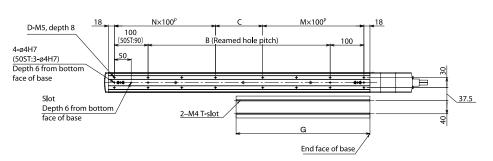
ME: Mechanical end SE: Stroke end



Detail view of Y-axis slider



Detail view of slot in bottom face of X-axis base



Detail view of X-axis installation

■Dimensions by Stroke

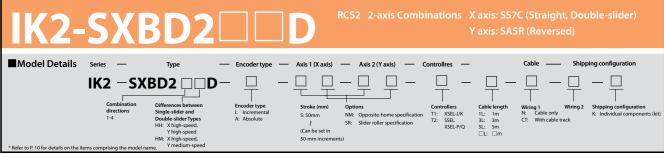
	•											
X: Nominal stroke	50	100	150	200	250	300	350	400	450	500	550	600
В	0	40	90	140	190	240	290	340	390	440	490	540
С	90	40	90	140	190	40	90	140	190	40	90	140
D	6	8	8	8	8	12	12	12	12	16	16	16
M	1	1	1	1	1	2	2	2	2	3	3	3
N	0	1	1	1	1	2	2	2	2	3	3	3
G	122	147	172	197	222	247	272	297	322	347	372	397

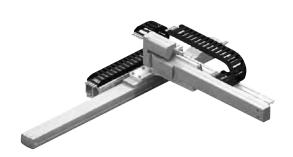
Controllers

Applicable controller









Both wiring 1 and wiring 2 assume use of a cable track.

■Maximum Stroke

X axis 450 mm	Y axis 400 mm	
A AAIS 430 IIIIII	Taxis 400 IIIII	

■Maximum Speed

	High-speed type	Medium-speed type
X axis	600mm/s	-
Y axis	800mm/s	400mm/s

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X high-speed, Y medium-speed		
250mm	2.5kg	5.0kg		
300mm	2.0kg	4.0kg		
350mm	2.0kg	4.0kg		
400mm	2.0kg	4.0kg		

List	List by Stroke										
			Incren	nental			Abso	olute			
	Y-axis stroke	250	300	350	400	250	300	350	400		
	50	-	-	-	-	-	-	-	-		
٠	100	-	-	-	-	-	-	-	-		
ş.	150	-	-	-	_	-	_	-	-		
to	200	-	-	-	-	-	-	-	-		
S S	250	-	-	-	-	-	-	-	-		
<u>~</u>	300	-	-	-	-	-	-	-	-		
X-a	350	-	-	-	-	-	-	-	-		
	400	-	-	-	-	-	-	-	-		
	450	-	-	-	_	-	_	-	-		

Cable track			
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-450
Willing I (Next to A-axis)		-	-
Wiring 2 (Next to Y-axis)	Y-axis stroke	250-400	_
wiring 2 (Next to 1-axis)		-	_

List by Cable Length						
Туре	Type Cable code Length					
	1L	1m				
Standard type	3L	3m				
	5L	5m				

^{*} Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)

Specifications				
ltem		X axis		Y axis
Axis model		RCS2-	-SS7C	RCS2-SA5R
Stroke (Can be set in	50-mm increments)	50-45	0mm	250-400mm
	Stroke	50-350mm	400-450mm	250-400mm
Max speed	High speed	600mm/s	470mm/s	800mm/s
	Medium speed	-	-	400mm/s
Motor output (W)		60W		20W
Ball screw lead		High-speed type: 12mm		High-speed type: 12mm Medium-speed type: 6mm
Drive method		Ball screw, ø10 mm, rolled, C10		
Positioning repeatability		±0.02		mm
Base material		Dedicated alloy steel		Aluminum
Surrounding air tem	perature/humidity	re/humidity 0 to 40°C, 85% RH or below (non-condensing)		

^{*} Refer to P. 90 for lengths other than those specified above.



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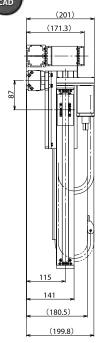
(201) (171.3)

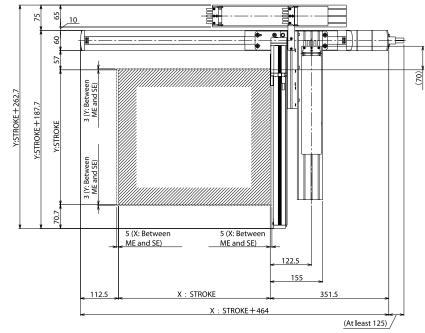
Note 1. The connected position shown in the drawing defines the home.

Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

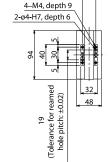
Note 3. For details on the cable track, refer to P. 90.

Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.





26 (Tolerance for reamed hole pitch: ±0.02) 4–M4, depth 9 2-ø4-H7, depth 6



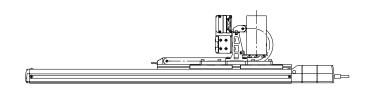
ME: Mechanical end

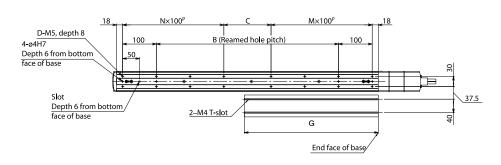
SE: Stroke end

Detail view of Y-axis slider



Detail view of slot in bottom face of X-axis base





Detail view of X-axis installation

■Dimensions by Stroke

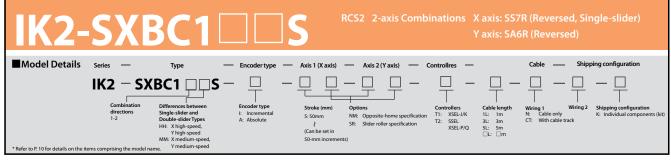
X: Nominal stroke	200	250	300	350	400	450	500	550	600
X: Effective stroke	50	100	150	200	250	300	350	400	450
В	140	190	240	290	340	390	440	490	540
С	140	190	40	90	140	190	40	90	140
D	8	8	12	12	12	12	16	16	16
M	1	1	2	2	2	2	3	3	3
N	1	1	2	2	2	2	3	3	3
G	197	222	247	272	297	322	347	372	397

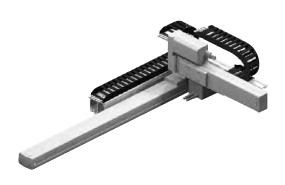
Controllers

Applicable controller









Both wiring 1 and wiring 2 assume use of a cable track.

■ Maximum Stroke

X axis 600 mm Y axis 200 mm

■Maximum Speed

	High-speed type	Medium-speed type
X axis	600mm/s	300mm/s
Y axis	800mm/s	400mm/s

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X medium-speed, Y medium-speed
50mm	4.5kg	9.0kg
100mm	4.5kg	9.0kg
150mm	4.0kg	8.0kg
200mm	3.0kg	6.0kg

	List by Stroke									
			Increr	mental			Abso	olute		
	Y-axis stroke	50	100	150	200	50	100	150	200	
	50	ı	-	-	-	-	-	_	-	
	100	-	-	-	-	-	-	-	-	
	150	ı	-	_	-	-	-	-	-	
ě.	200	ı	-	_	-	-	-	-	-	
0	250	-	_	-	_	-	-	-	-	
str	300	-	-	-	-	-	-	-	-	
×is	350	_	-	-	-	-	-	-	_	
- Ģ	400	_	-	-	-	-	-	-	-	
×	450	-	-	-	-	-	-	-	-	
	500	-	-	-	-	-	-	-	-	
	550	_	_	_	_	-	-	-	-	
	600	-	-	-	-	-	-	-	-	

List of Options

Opposite-home specification

Slider roller specification

Cable track							
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600				
wiring I (Next to X-axis)							
Wiring 2 (Next to Y-axis)	Y-axis stroke	50-200	-				
Willing 2 (Next to 1-axis)			_				

Option code

NM

SR

Axis 1 (X-axis) Axis 2 (Y-axis)

List by Cable Length				
Туре	Cable code	Length		
	1L	1m		
Standard type	3L	3m		
	5L	5m		

- * Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.
- $\ensuremath{^{*}}$ Refer to P. 90 for lengths other than those specified above.

Specifications					
Item		X a	axis	Y axis	
Axis model		RCS2	-SS7R	RCS2-SA6R	
Stroke (Can be set in 5	0-mm increments)	50-60	00mm	50-200mm	
	Stroke	50-500mm	550-600mm	50-200mm	
Max speed	High speed	600mm/s	470mm/s	800mm/s	
·	Medium speed	300mm/s	230mm/s	400mm/s	
Motor output (W)		60W		30W	
Dellamontand		High-speed type: 12mm			
Ball screw lead		Medium-speed type: 6mm			
Drive method		Ball screw, ø10 mm, rolled, C10			
Positioning repeatability		±0.02mm			
Base material		Dedicated alloy steel Aluminum			
Surrounding air tempe	temperature/humidity 0 to 40°C, 85% RH or below (non-condensing)				

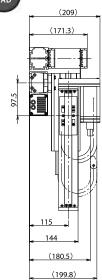


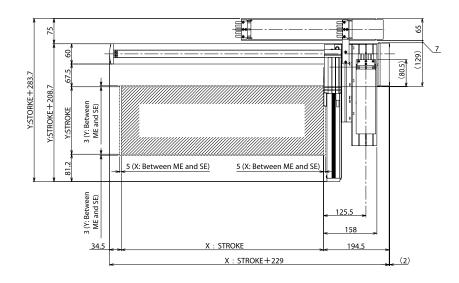
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Note 1. The connected position shown in the drawing defines the home Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

Note 3. For details on the cable track, refer to P. 90.

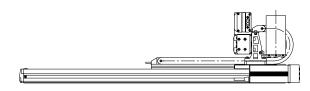
Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.





(Tolerance for reamed hole pitch: ± 0.02) 4-M5, depth 9 2-ø5H7, depth 6 9 20 32 (Tolerance for reamed hole pitch: ±0.02)

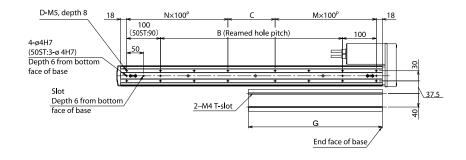




Detail view of Y-axis slider



Detail view of slot in bottom face of X-axis base



Detail view of X-axis installation

■Dimensions by Stroke

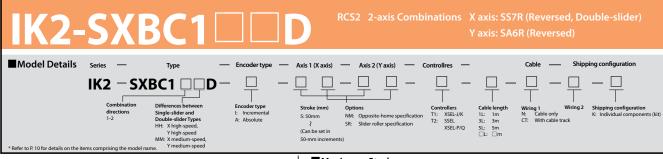
X: Nominal stroke	50	100	150	200	250	300	350	400	450	500	550	600
В	0	40	90	140	190	240	290	340	390	440	490	540
С	90	40	90	140	190	40	90	140	190	40	90	140
D	6	8	8	8	8	12	12	12	12	16	16	16
M	1	1	1	1	1	2	2	2	2	3	3	3
N	0	1	1	1	1	2	2	2	2	3	3	3
G	122	147	172	197	222	247	272	297	322	347	372	397

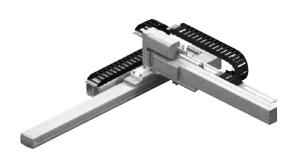
Controllers

Applicable controller









Both wiring 1 and wiring 2 assume use of a cable track.

■ Maximum Stroke

X axis	450 mm	Y axis	400 mm

■Maximum Speed

	High-speed type	Medium-speed type
X axis	600mm/s	300mm/s
Y axis	800mm/s	400mm/s

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X medium-speed, Y medium-speed
250mm	3.0kg	6.0kg
300mm	3.0kg	6.0kg
350mm	3.0kg	6.0kg
400mm	3.0kg	6.0kg
100111111	3.0kg	0.010

List	List by Stroke									
Incremental						Absolute				
	Y-axis stroke	250	300	350	400	250	300	350	400	
	50	-	_	-	-	-	-	-	1	
a u	100	ı	-	-	-	-	-	-	ı	
oke	150	-	-	-	-	-	-	-	-	
≟	200	-	-	-	-	-	-	-	-	
S	250	1	_	-	-	-	-	-	_	
a×.	300	-	-	-	-	-	-	-	-	
\ ×	350	-	-	-	-	-	-	-	-	
	400	-	-	-	-	-	-	-	-	
	450	_	_	_	_	_	_	_	_	

List of Options

Opposite-home specification

Slider roller specification

Cable track						
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-450			
Willing I (Next to A-axis)			-			
Wiring 2 (Next to Y-axis)	Y-axis stroke	250-400	-			
wiring 2 (Next to 1-axis)			_			

Option code

NM

SR

Axis 1 (X-axis)

List by Cable Length				
Туре	Cable code	Length		
Standard type	1L	1m		
	3L	3m		
	5L	5m		

^{*} Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

^{*} Refer to P. 90 for lengths other than those specified above.

Specifications					
Specifications					
Item	Item		xis	Y axis	
Axis model		RCS2-	-SS7R	RCS2-SA6R	
Stroke (Can be set in 50	0-mm increments)	50-45	0mm	250-400mm	
	Stroke	50-350mm	400-450mm	250-400mm	
Max speed	High speed	600mm/s	470mm/s	800mm/s	
	Medium speed	300mm/s	230mm/s	400mm/s	
Motor output (W)		60	W	30W	
Ball screw lead		High-speed type: 12mm			
		Medium-speed type: 6mm			
Drive method		Ball screw, ø10 mm, rolled, C10			
Positioning repeatabili	ty	±0.02mm			
Base material		Dedicated alloy steel Aluminum			
Surrounding air tempe	rature/humidity	0 to 40°C, 85% RH or below (non-condensing)			

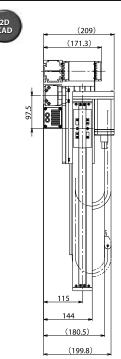


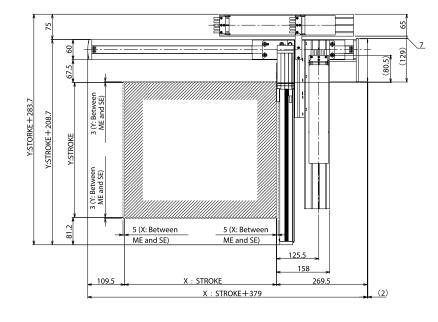
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Note 1. The connected position shown in the drawing defines the home. Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

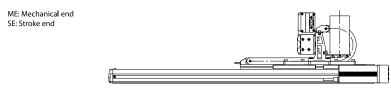
Note 3. For details on the cable track, refer to P. 90.

Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.





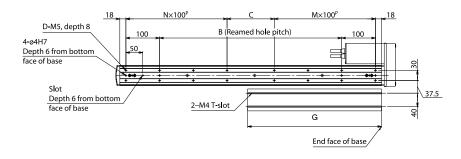
31 (Tolerance for reamed hole pitch: ± 0.02) 4-M5, depth 9 2-ø5-H7, depth 6 9 32 (Tolerance for reamed hole pitch: ±0.02)



Detail view of Y-axis slider



Detail view of slot in bottom face of X-axis base



Detail view of X-axis installation

■Dimensions by Stroke

X: Nominal stroke	200	250	300	350	400	450	500	550	600
X: Effective stroke	50	100	150	200	250	300	350	400	450
В	140	190	240	290	340	390	440	490	540
С	140	190	40	90	140	190	40	90	140
D	8	8	12	12	12	12	16	16	16
M	1	1	2	2	2	2	3	3	3
N	1	1	2	2	2	2	3	3	3
G	197	222	247	272	297	322	347	372	397

Controllers

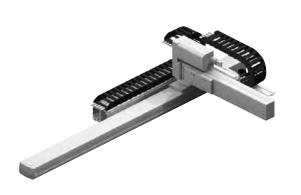
Applicable controller





(Can be set in

Encoder type
I: Incremental
A: Absolute



Both wiring 1 and wiring 2 assume use of a cable track.

■ Maximum Stroke

X axis 600 mm	xis 200 mm
---------------	------------

■ Maximum Speed

	High-speed type	Medium-speed type	
X axis	600mm/s	300mm/s	
Y axis	800mm/s	400mm/s	

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X medium-speed, Y medium-speed
50mm	4.5kg	9.0kg
100mm	4.5kg	9.0kg
150mm	4.0kg	8.0kg
200mm	3.0kg	6.0kg

	List by Stroke								
			Increr	nental			Abso	olute	
	Y-axis stroke	50	100	150	200	50	100	150	200
	50	-	-	-	-	-	-	-	-
	100	-	-	-	_	-	_	-	-
	150	-	-	-	-	-	-	-	-
e e	200	-	-	-	-	-	-	-	-
8	250	-	-	-	-	-	-	-	-
str	300	-	-	-	-	-	-	-	-
.2	350	-	-	-	-	-	-	-	-
ä	400	-	-	-	-	-	-	-	-
×	450	-	-	-	-	-	-	-	-
	500	-	-	-	-	-	-	-	-
	550	-	_	-	_	-	-	-	-
	600	-	-	-	-	-	-	-	-

List of Options

Name
Opposite-home specification

Slider roller specification

Cable track						
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600			
wiring I (Next to X-axis)			-			
Wiring 2 (Next to Y-axis)	Y-axis stroke	50-200	-			
			_			

Option code NM

Axis 1 (X-axis) Axis 2 (Y-axis)

List by Cable Length				
Туре	Cable code	Length		
	1L	1m		
Standard type	3L	3m		
	5L	5m		

- * Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.
- * Refer to P. 90 for lengths other than those specified above.

Specifications					
Specifications					
Item		X a	xis	Y axis	
Axis model		RCS2-	SS7C	RCS2-SA6R	
Stroke (Can be set in 50	O-mm increments)	50-60	0mm	50-200mm	
	Stroke	50-500mm	550-600mm	50-200mm	
Max speed	High speed	600mm/s	470mm/s	800mm/s	
· ·	Medium speed	300mm/s	230mm/s	400mm/s	
Motor output (W)		60W		30W	
Ball screw lead		High-speed type: 12mm Medium-speed type: 6mm			
Drive method		Ball screw, ø10 mm, rolled, C10			
Positioning repeatability		±0.02mm			
Base material		Dedicated alloy steel Aluminum			
Surrounding air tempe	rature/humidity	0 to 40°C, 85% RH or below (non-condensing)			

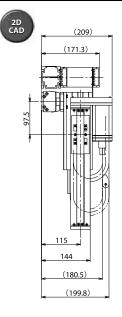


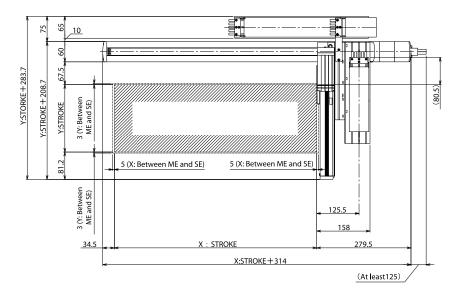
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Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

Note 3. For details on the cable track, refer to P. 90.

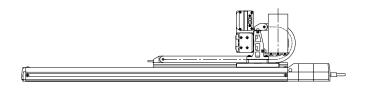
Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.





(Tolerance for reamed hole pitch: ± 0.02) 4-M5, depth 9 2-ø5H7, depth 6 32 (Tolerance for reamed hole pitch: ±0.02)

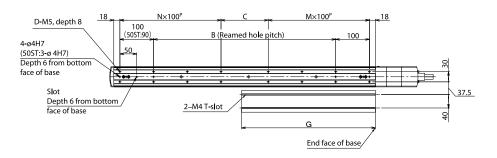
ME: Mechanical end SE: Stroke end



Detail view of Y-axis slider



Detail view of slot in bottom face of X-axis base



Detail view of X-axis installation

■Dimensions by Stroke

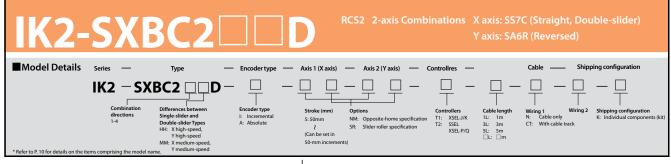
X: Nominal stroke	50	100	150	200	250	300	350	400	450	500	550	600
В	0	40	90	140	190	240	290	340	390	440	490	540
C	90	40	90	140	190	40	90	140	190	40	90	140
D	6	8	8	8	8	12	12	12	12	16	16	16
M	1	1	1	1	1	2	2	2	2	3	3	3
N	0	1	1	1	1	2	2	2	2	3	3	3
G	122	147	172	197	222	247	272	297	322	347	372	397

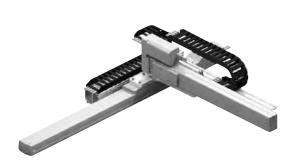
Controllers

Applicable controller









■ Maximum Stroke

X axis 450 mm Y axis 400 mm

■Maximum Speed

	High-speed type	Medium-speed type		
X axis	600mm/s	300mm/s		
Y axis	800mm/s	400mm/s		

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X medium-speed, Y medium-speed
250mm	3.0kg	6.0kg
300mm	3.0kg	6.0kg
350mm	3.0kg	6.0kg
400mm	3.0kg	6.0kg

Both wiring 1 and wiring 2 assume use of a cable track.

List	List by Stroke								
			Incren	nental			Abso	olute	
	Y-axis stroke	250	300	350	400	250	300	350	400
	50	-	-	_	-	-	-	_	-
	100	-	-	-	-	-	-	-	-
ş.	150	-	_	_	-	-	_	_	_
stro	200	-	-	-	-	-	-	-	-
S	250	-	_	-	_	-	_	-	_
× ×	300	-	-	-	-	-	-	-	-
X-a	350	-	_	-	-	-	-	_	-
	400	-	-	-	-	-	-	-	-
	450	_	-	-	-	-	-	-	-

Cable track					
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-450		
wiring I (Next to X-axis)			-		
Wiring 2 (Next to Y-axis)	Y-axis stroke	250-400	-		
Wiring 2 (Next to Y-axis)			-		

List by Cable Length					
Type	Cable code	Length			
	1L	1m			
Standard type	3L	3m			
	5L	5m			

Axis 1 comes with a standard	cable, while axis 2 comes with a robot cable.
------------------------------	---

 $[\]ensuremath{^{*}}$ Refer to P. 90 for lengths other than those specified above.

List of Options						
Name	Option code					
Opposite-home specification	NM					
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)				

Specifications								
Item		X a	ıxis	Y axis				
Axis model		RCS2-	-SS7C	RCS2-SA6R				
Stroke (Can be set in 5	0-mm increments)	50-45	0mm	250-400mm				
	Stroke	50-350mm	400-450mm	250-400mm				
Max speed	High speed	600mm/s	470mm/s	800mm/s				
·	Medium speed	300mm/s	230mm/s	400mm/s				
Motor output (W)		60	W	30W				
Dell committee d			High-speed type: 12mm					
Ball screw lead			Medium-speed	d type: 6mm				
Drive method			Ball screw, ø10 m	nm, rolled, C10				
Positioning repeatabili	ty		±0.02	mm				
Base material		Dedicated	alloy steel	Aluminum				
Surrounding air tempe	erature/humidity	0 to 40°C, 85% RH or below (non-condensing)						

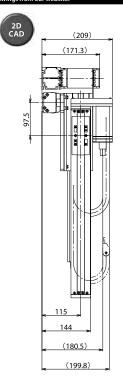


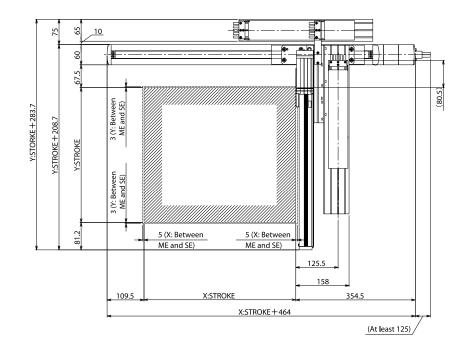
Note 1. The connected position shown in the drawing defines the home. www.intelligentactuator.com

Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

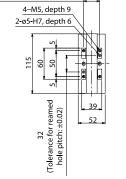
Note 3. For details on the cable track, refer to P. 90.

Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90. $\,$





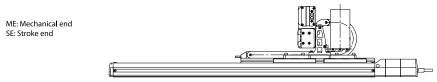
31 (Tolerance for reamed hole pitch: ± 0.02)

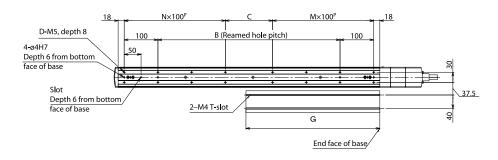


Detail view of Y-axis slider



Detail view of slot in bottom face of X-axis base





Detail view of X-axis installation

■Dimensions by Stroke

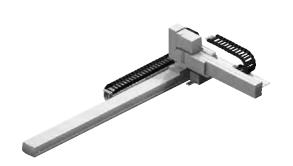
X: Nominal stroke	200	250	300	350	400	450	500	550	600
X: Effective stroke	50	100	150	200	250	300	350	400	450
В	140	190	240	290	340	390	440	490	540
С	140	190	40	90	140	190	40	90	140
D	8	8	12	12	12	12	16	16	16
M	1	1	2	2	2	2	3	3	3
N	1	1	2	2	2	2	3	3	3
G	197	222	247	272	297	322	347	372	397

Controllers

Applicable controller



K2-SXBB1 S RCS2 2-axis Combinations X axis: SSRR (100W, Reversed, Single-silder Y axis: SA7R (Reversed)



Maximum Stroke

X axis 1000 mm

1000 mm Y axis 300 mm

■ Maximum Speed

	High-speed type	Medium-speed type									
X axis	1000mm/s	500mm/s									
Y axis	800mm/s	400mm/s									

■Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X medium-speed, Y medium-speed		
50mm	8.0kg	16kg		
100mm	8.0kg	16kg		
150mm	7.0kg	15kg		
200mm	7.0kg	12.5kg		
250mm	6.0kg	9.0kg		
300mm	6.0kg	8.0kg		

Both wiring 1 and wiring 2 assume use of a cable track.

	ist by Stroke												
				Increr	mental			Absolute					
	Y-axis stroke	50	100	150	200	250	300	50	100	150	200	250	300
	50	-	-	-	-	-	-	_	_	-	-	-	_
	100	-	-	-	-	-	-	_	-	-	-	-	-
	150	_	-	-	-	-	_	_	_	_	-	-	-
	200	_	-	-	-	-	-	_	-	-	-	-	-
	250	-	-	-	-	-	-	_	-	-	-	-	-
	300	-	_	-	_	_	-	_	_	_	-	-	_
	350	-	_	_	-	-	_	_	_	_	-	-	_
a o	400	_	-	-	-	-	-	_	-	-	-	-	-
trok	450	_	_	_	_	_	_	_	_	_	_	-	_
st	500	-	_	_	-	-	_	_	_	_	_	-	_
i.s	550	-	_	_	_	_	_	_	_	_	_	_	_
-a×	600	-	-	-	-	-	-	_	-	-	-	-	-
×	650	_	_	-	_	-	_	_	_	_	-	-	_
	700	-	-	-	-	_	_	_	-	_	-	-	-
	750	_	_	_	_	_	_	_	_	_	_	_	_
	800	-	-	-	-	-	-	_	-	-	-	-	-
	850	_	-	_	_	_	_	_	_	-	_	-	_
	900	-	-	-	-	-	-	_	-	-	-	-	-
	950	_	_	_	_	_	_	_	_	_	_	_	_
	1000	-	_	_	-	-	-	_	_	_	-	-	_

List by Cable L	List by Cable Length								
Type	Cable code	Length							
	1L	1m							
Standard type	3L	3m							
1	5L	5m							

* Axis 1	comes with a	standard ca	ble, while a	axis 2 comes	with a rob	ot cable.
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^{*} Refer to P. 90 for lengths other than those specified above.

Cable track					
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600	650-900	950-1000
wiring I (Next to X-axis)					
Wiring 2 (Next to Y-axis)	Y-axis stroke	50-200	250-300	ı	-
				_	-

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)

Specification	s						
	ltem			Y axis			
Axis model RCS2-SS8R							RCS2-SA7R
Stroke (Can be set	t in 50-mm increments)			50-1000mm			50-300mm
	Stroke	50-600mm	650-700mm	750-800mm	850-900mm	950-1000mm	50-300mm
Max speed	High speed	1000mm/s	960mm/s	765mm/s	625mm/s	515mm/s	800mm/s
·	Medium speed	500mm/s	480mm/s	380mm/s	310mm/s	255mm/s	400mm/s
Motor output (W)			60W				
Dell consulter d			High-speed type: 16mm				
Ball screw lead			Mediu	ım-speed type: 10m	m		Medium-speed type: 8mm
Drive method			Ball scr	ew, ø16 mm, rolled,	C10		Ball screw, ø12 mm, rolled, C10
Positioning repeatability ±0.02mm							
Base material			D	edicated alloy steel			Aluminum
Surrounding air temperature/humidity 0 to 40°C, 85% RH or below (non-condensing)						ondensing)	

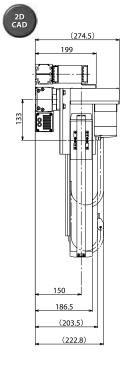


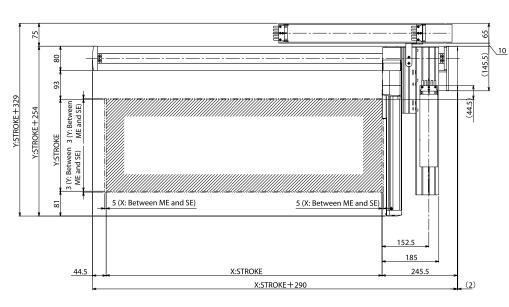
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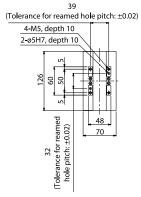
Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

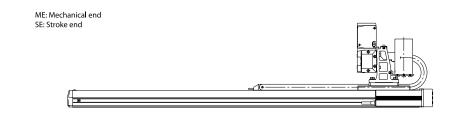
Note 3. For details on the cable track, refer to P. 90.

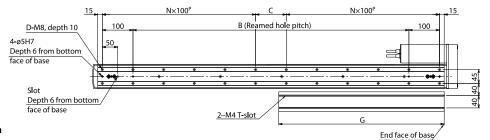
Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.











Detail view of Y-axis slider

Detail view of slot in bottom face of X-axis base

Detail view of X-axis installation

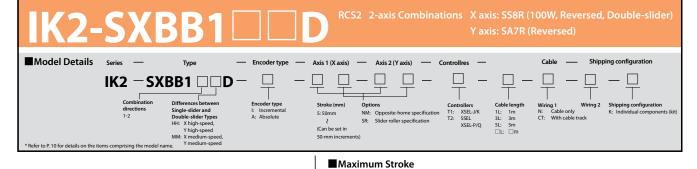
■ Dimensions by Stroke

X: Nominal stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
В	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	8	8	8	10	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	114.5	139.5	164.5	189.5	214.5	239.5	264.5	289.5	314.5	339.5	364.5	389.5	414.5	439.5	464.5	489.5	514.5	539.5	564.5	589.5

Controllers

Applicable controller







■Maximum Speed

	High-speed type	Medium-speed type
X axis	1000mm/s	500mm/s
Y axis	800mm/s	400mm/s

400 mm

■ Maximum Load Capacity

800 mm

Y-axis stroke	X high-speed, Y high-speed	X medium-speed, Y medium-speed		
200mm	_	15kg		
250mm	-	12.5kg		
300mm	_	12.5kg		
350mm	6.0kg	12kg		
400mm	5.5kg	10.5kg		

Both wiring 1 and wiring 2 assume use of a cable track.

List	List by Stroke										
				Incremental					Absolute		
	Y-axis stroke	200	250	300	350	400	200	250	300	350	400
	50	-	-	-	-	-	-	-	-	-	-
	100	_	-	-	-	-	-	-	-	-	-
	150	_	-	-	_	-	-	-	-	_	_
	200	-	-	-	-	-	-	-	-	-	-
	250	_	-	-	-	-	-	-	-	-	-
υ	300	_	_	-	_	_	-	_	-	_	_
trok	350	_	-	-	-	-	-	-	-	_	_
str	400	-	-	-	-	-	-	-	-	-	-
.s	450	_	-	-	_	-	-	-	-	-	_
a×	500	_	-	-	_	-	-	-	-	-	-
×	550	_	-	-	_	-	-	-	-	_	_
	600	_	-	-	-	-	-	-	-	-	-
	650	_	-	-	-	-	-	-	-	-	_
	700	-	-	-	-	-	-	-	-	-	-
	750	-	-	-	-	-	-	-	-	-	_
	800	-	-	-	_	-	-	_	-	-	_

Note: For the X high-speed/Y high-speed type, the Y-axis stroke must be 350 mm or more.

List by Cable Length						
Туре	Cable code	Length				
	1L	1m				
Standard type	3L	3m				
	5L	5m				

* Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

Cable track				
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600	650-800
wiring I (Next to X-axis)				
Wiring 2 (Next to Y-axis)	Y-axis stroke	200	250-400	-
Willing 2 (Next to 1-axis)				-

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)

Specifications								
Iter	n		Y axis					
Axis model				RCS2-SS8R			RCS2-SA7R	
Stroke (Can be set in	50-mm increments)		High-speed type: 350-400mm Medium-speed type: 200-400mm					
	Stroke	50-400mm	450-500mm	550-600mm	650-700mm	750-800mm	200-400mm	
Max speed	High speed	1000mm/s	960mm/s	765mm/s	625mm/s	515mm/s	800mm/s	
	Medium speed	500mm/s	480mm/s	380mm/s	310mm/s	255mm/s	400mm/s	
Motor output (W)			60W					
			High	n-speed type: 20mm	ı		High-speed type: 16mm	
Ball screw lead			Mediu	ım-speed type: 10m	m		Medium-speed type: 8mm	
Drive method			Ball scr	ew, ø16 mm, rolled,	C10		Ball screw, ø12 mm, rolled, C10	
Positioning repeatab	ility	±0.02mm						
Base material			Aluminum					
Surrounding air temp	erature/humidity			0 to 40°C, 85% F	RH or below (non-co	ondensing)	·	

 $[\]ensuremath{^{*}}$ Refer to P. 90 for lengths other than those specified above.



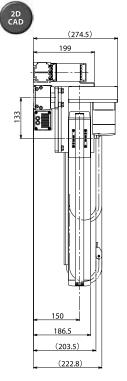
You can download CAD drawings from our website. www.intelligentactuator.com

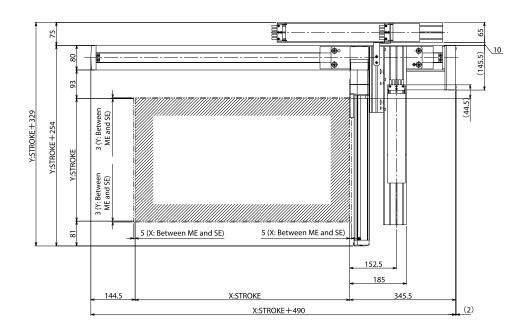
Note 1. The connected position shown in the drawing defines the home. \\

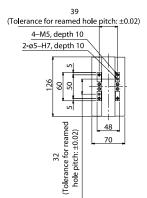
Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

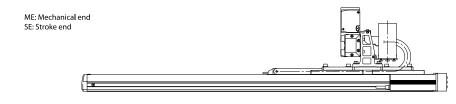
Note 3. For details on the cable track, refer to P. 90.

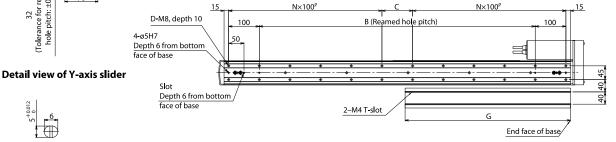
Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.











Detail view of slot in bottom face of X-axis base

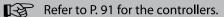
Detail view of X-axis installation

■Dimensions by Stroke

X: Nominal stroke	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
X: Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
В	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	214.5	239.5	264.5	289.5	314.5	339.5	364.5	389.5	414.5	439.5	464.5	489.5	514.5	539.5	564.5	589.5

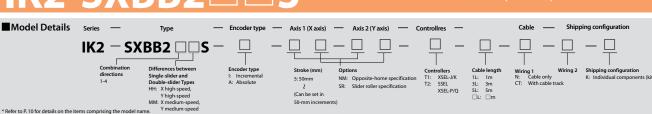
Controllers

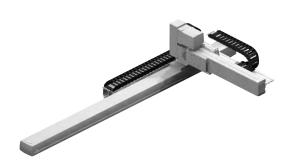
Applicable controller



IK2-SXBB2 S

RCS2 2-axis Combinations X axis: SS8C (100W, Straight, Single-slider, Y axis: SA7R (Reversed)





Maximum Stroke

X axis 1000 mm

Iwaximum Speed								
	High-speed type	Medium-speed type						
X axis	1000mm/s	500mm/s						
	000 /	100 /						

300 mm

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X medium-speed, Y medium-speed		
50mm	8.0kg	16kg		
100mm	8.0kg	16kg		
150mm	7.0kg	15kg		
200mm	7.0kg	12.5kg		
250mm	6.0kg	9.0kg		
300mm	6.0kg	8.0kg		

Both wiring 1 and wiring 2 assume use of a cable track.

	ist by Stroke												
				Increi	mental					Abs	olute		
	Y-axis stroke	50	100	150	200	250	300	50	100	150	200	250	300
	50	_	-	-	-	-	_	-	-	_	_	-	-
	100	-	-	-	-	-	-	-	-	-	_	-	-
	150	_	-	-	_	_	_	-	-	_	_	-	-
	200	_	-	-	-	-	-	-	_	_	_	-	-
	250	_	-	-	-	-	-	-	_	_	-	-	-
	300	_	-	-	-	-	_	-	-	-	_	-	-
	350	_	-	-	-	-	-	-	-	_	-	-	-
e e	400	-	-	-	-	-	-	-	-	-	-	-	-
roke	450	-	-	-	-	-	-	-	_	_	-	-	-
st	500	_	-	-	-	-	-	-	_	-	_	-	-
. <u>s</u>	550	-	-	_	-	-	-	-	_	_	-	-	-
-axi	600	-	-	-	-	-	-	-	-	-	-	-	-
×	650	_	_	_	_	_	-	_	_	_	_	-	-
	700	_	-	-	-	_	-	_	_	-	_	-	-
	750	_	-	-	-	-	-	-	_	-	-	-	-
	800	-	-	-	-	-	_	-	-	-	_	-	-
	850	_	-	-	_	_	-	_	_	_	_	-	-
	900	_	-	-	-	-	-	-	_	_	_	-	-
	950	_	-	-	-	-	-	_	_	-	-	-	-
	1000	-	-	-	-	_	_	_	_	_	_	-	-

List by Cable Length Type Cable code Length 1L 1m 3L 3m 5L 5m

* Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

Cable track						
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600	650-900	950-1000	
(Next to X-axis)						
Wiring 2 (Next to Y-axis)	Y-axis stroke	50-200	250-300	-	-	
wiring 2 (Next to 1-axis)				-	-	

List of Options							
Name	Option code						
Opposite-home specification	NM						
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)					

Specification	S								
	Item			X axis			Y axis		
Axis model				RCS2-SS8C			RCS2-SA7R		
Stroke (Can be set	t in 50-mm increments)		50-300mm						
	Stroke	50-600mm	650-700mm	750-800mm	850-900mm	950-1000mm	50-300mm		
Max speed	High speed	1000mm/s	960mm/s	765mm/s	625mm/s	515mm/s	800mm/s		
·	Medium speed	500mm/s	480mm/s	380mm/s	310mm/s	255mm/s	400mm/s		
Motor output (W)			60W						
0.11			High-speed type: 16mm						
Ball screw lead			Mediu	ım-speed type: 10m	m		Medium-speed type: 8mm		
Drive method			Ball screw, ø12 mm, rolled, C10						
Positioning repea	tability	±0.02mm							
Base material			Aluminum						
Surrounding air te	emperature/humidity			0 to 40°C, 85% F	RH or below (non-c	ondensing)			

^{*} Refer to P. 90 for lengths other than those specified above.





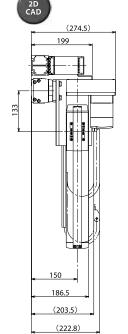
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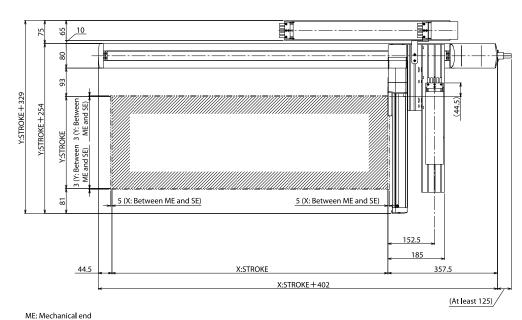
Note 1. The connected position shown in the drawing defines the home.

Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

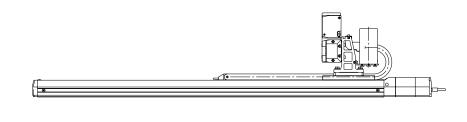
Note 3. For details on the cable track, refer to P. 90.

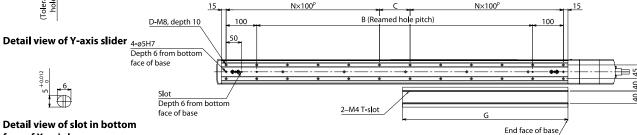
Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.





39 (Tolerance for reamed hole pitch: ±0.02) 4-M5, depth 10 2-ø5-H7, depth 10 32 (Tolerance for reamed





Detail view of slot in bottom face of X-axis base

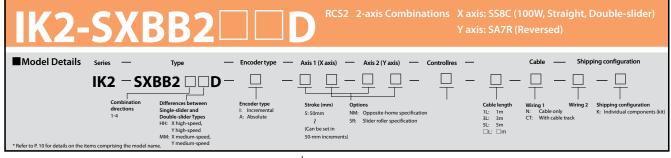
Detail view of X-axis installation

■ Dimensions by Stroke

— Dimension	13 Dy 3	LIONC																		
X: Nominal stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
В	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
C	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	8	8	8	10	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	114.5	139.5	164.5	189.5	214.5	239.5	264.5	289.5	314.5	339.5	364.5	389.5	414.5	439.5	464.5	489.5	514.5	539.5	564.5	589.5

Controllers

Applicable controller





■ Maximum Stroke

X axis 800 mm Y axis 400 mm

■Maximum Speed

	High-speed type	Medium-speed type
X axis	1000mm/s	500mm/s
Y axis	800mm/s	400mm/s

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed	X medium-speed, Y medium-speed
200mm	-	15kg
250mm	-	12.5kg
300mm	-	12.5kg
350mm	6.0kg	12kg
400mm	5.5kg	10.5kg

Both wiring 1 and wiring 2 assume use of a cable track.

List	by Stroke											
				Incremental		Absolute						
	Y-axis stroke	200	250	300	350	400	200	250	300	350	400	
	50	-	_	_	_	-	_	_	_	_	_	
	100	-	-	-	-	-	-	-	-	-	-	
	150	-	-	_	_	-	-	_	-	_	-	
	200	-	-	_	-	-	-	-	-	-	-	
	250	-	-	-	-	-	-	-	-	-	-	
o	300	-	-	-	-	-	-	-	-	-	-	
oke	350	_	-	_	-	-	-	_	-	-	-	
str	400	-	-	-	-	-	-	-	-	-	-	
. <u>s</u>	450	-	-	-	-	-	-	-	-	-	-	
-a×	500	_	-	-	-	-	-	-	-	-	-	
×	550	_	-	-	-	_	-	-	-	-	-	
	600	-	-	-	-	-	-	-	-	-	-	
	650	_	-	-	-	-	-	-	-	-	-	
	700	-	-	-	-	-	-	-	-	-	-	
	750	_	-	-	-	-	-	-	-	-	-	
	800	-	-	-	-	_	-	-	-	_	-	

Note: For the X high-speed/Y high-speed type, the Y-axis stroke must be 350 mm or more.

List by Cable Length							
Type	Cable code	Length					
	1L	1m					
Standard type	3L	3m					
	5L	5m					

* Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

Cable track					
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600	650-800	
Willing I (Next to X-axis)					
Wiring 2 (Next to Y-axis)	Y-axis stroke	200	250-400	-	
wiring 2 (Next to 1-axis)				_	

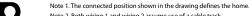
List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)

Specification	s								
	Item			X axis			Y axis		
Axis model			RCS2-SA7R						
Stroke (Can be se	t in 50-mm increments)		High-speed type: 350-400mm Medium-speed type: 200-400mm						
	Stroke	50-400mm	450-500mm	550-600mm	650-700mm	750-800mm	200-400mm		
Max speed	High speed	1000mm/s	960mm/s	765mm/s	625mm/s	515mm/s	800mm/s		
	Medium speed	500mm/s	480mm/s	380mm/s	310mm/s	255mm/s	400mm/s		
Motor output (W)			60W						
			Higl	n-speed type: 20mm	ı		High-speed type: 16mm		
Ball screw lead			-	ım-speed type: 10m			Medium-speed type: 8mm		
Drive method			Ball scr	ew, ø16 mm, rolled,	C10		Ball screw, ø12 mm, rolled, C10		
Positioning repea	tability	±0.02mm							
Base material			Aluminum						
Surrounding air te	emperature/humidity			0 to 40°C, 85% F	RH or below (non-co	ondensing)			

 $[\]ensuremath{^{*}}$ Refer to P. 90 for lengths other than those specified above.



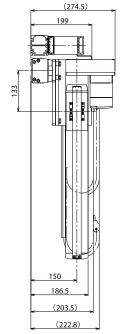
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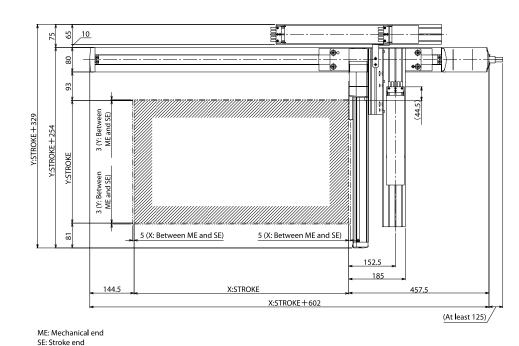


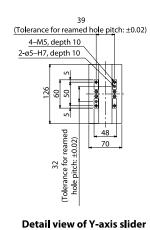
Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

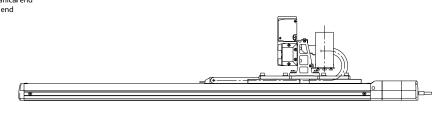
Note 3. For details on the cable track, refer to P. 90. Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.

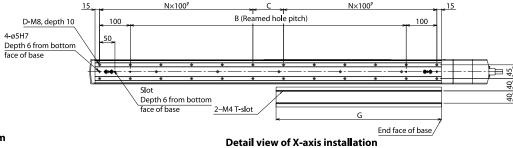












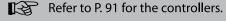
Detail view of slot in bottom face of X-axis base

■Dimensions by Stroke

X: Nominal stroke	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
X: Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
В	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
C	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	214.5	239.5	264.5	289.5	314.5	339.5	364.5	389.5	414.5	439.5	464.5	489.5	514.5	539.5	564.5	589.5

Controllers

Applicable controller



5: 50mm



■ Maximum Stroke

(X axis 1000 mm) (Y axis 350 mm)

■ Maximum Speed

	High-speed type	Medium-speed type
X axis	1000mm/s	500mm/s
Y axis	1000mm/s	500mm/s

■ Maximum Load Capacity

_	maximum Loud capaci	-,			
	Y-axis stroke	X high-speed, Y high-speed	X medium-speed, Y medium-speed		
	50mm	12kg	24kg		
	100mm	12kg	20.5kg		
	150mm	11.5kg	15.5kg		
	200mm	11kg	12.5kg		
	250mm	10kg	-		
	300mm	8.5kg	-		
	350mm	7kg	-		

Both wiring 1 and wiring 2 assume use of a cable track.

* Refer to P. 10 for details on the items comprising the model n

				- 1	ncrement	al			Absolute						
	Y-axis stroke	50	100	150	200	250	300	350	50	100	150	200	250	300	350
	50	_	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-
é	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-
stroke	450	-	-	-	-	-	-	-	-	-	-	-	_	_	-
	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-
×is	550	-	-	-	-	-	-	-	-	-	-	-	-	_	-
X-a)	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
×	650	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	750	-	-	-	-	-	-	-	-	-	-	-	-	-	_
	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	850	-	-	-	-	-	-	-	-	-	-	-	-	-	_
	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	950	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1000	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Note: For the X medium-speed/Y medium-speed type, the Y-axis stroke must be 200 mm or less.

List by Cable Length									
Туре	Cable code	Length							
	1L	1m							
Standard type	3L	3m							
	5L	5m							

- * Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.
- * Refer to P. 90 for lengths other than those specified above.

Cable track					
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600	650-900	950-1000
Willing I (Next to X-axis)					
Wiring 2 (Next to Y-axis)	Y-axis stroke	50-200	250-300	=	-
wiring 2 (Next to Y-axis)				_	-

	List of Options		
I	Name	Option code	
I	Opposite-home specification	NM	
I	Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)

Specifications									
It	em			X axis			Y axis		
Axis model					RCS2-SS8R				
Stroke (Can be set i	n 50-mm increments)		High-speed type: 50-350mm Medium-speed type: 50-200mm						
	Stroke	50-600mm	650-700mm	750-800mm	850-900mm	950-1000mm	50-350mm		
Max speed	High speed	1000mm/s	960mm/s	765mm/s	625mm/s	515mm/s	1000mm/s		
	Medium speed	500mm/s	480mm/s	380mm/s	310mm/s	255mm/s	500mm/s		
Motor output (W)			100W						
		High-speed type: 20mm							
Ball screw lead				Mediur	n-speed type: 10m	m			
Drive method		Ball screw, ø16 mm, rolled, C10							
Positioning repeata	bility	±0.02mm							
Base material		Dedicated alloy steel							
Surrounding air ten	nperature/humidity			0 to 40°C, 85% F	RH or below (non-co	ondensing)			

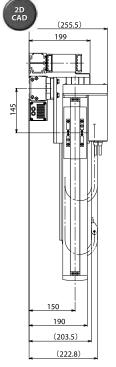


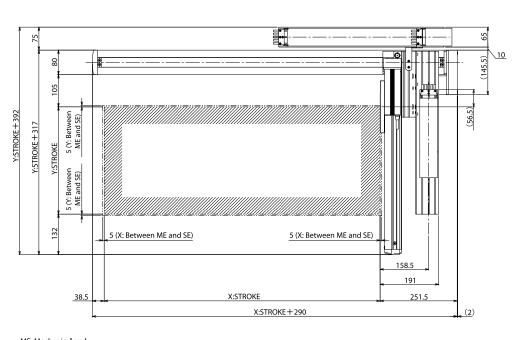
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Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

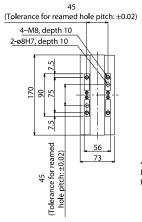
Note 3. For details on the cable track, refer to P. 90.

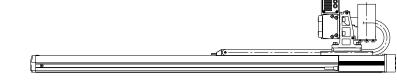
Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.

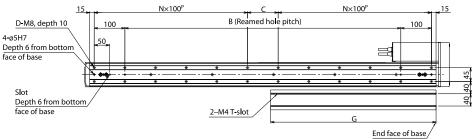




ME: Mechanical end SE: Stroke end







Detail view of Y-axis slider

Detail view of X-axis installation

Detail view of slot in bottom face of X-axis base

■Dimensions by Stroke

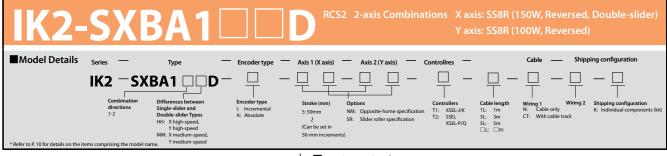
X: Nominal stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
В	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
C	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	8	8	8	10	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	114.5	139.5	164.5	189.5	214.5	239.5	264.5	289.5	314.5	339.5	364.5	389.5	414.5	439.5	464.5	489.5	514.5	539.5	564.5	589.5

Controllers

Applicable controller









■ Maximum Stroke

X axis 800 mm Y axis 400 mm

■ Maximum Speed

	High-speed type	Medium-speed type
X axis	1000mm/s	500mm/s
Y axis	1000mm/s	500mm/s

■ Maximum Load Capacity

maximum Loud Capacity									
Y-axis stroke	X high-speed, Y high-speed	X medium-speed, Y medium-speed							
100mm	-	24kg							
150mm	-	24kg							
200mm	-	23kg							
250mm	-	19kg							
300mm	11kg	16kg							
350mm	10.5kg	13.5kg							
400mm	10kg	11.5kg							

Both wiring 1 and wiring 2 assume use of a cable track.

List	by Stroke														
	Incremental				Absolute										
	Y-axis stroke	100	150	200	250	300	350	400	100	150	200	250	300	350	400
	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	-	-	ı	-	-	-	-	-	-	-	-	-	-	-
	200	-	-	ı	-	-	-	-	-	-	ı	-	-	-	-
	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trok	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-
str	400	-	-	ı	-	-	-	-	-	-	1	-	-	-	-
<u>.s</u>	450	-	-	_	-	-	-	-	-	-	-	-	-	-	_
-a×	500	-	-	-	-	_	-	-	-	-	-	-	-	-	-
×	550	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	650	-	-	1	-	-	-	-	-	-	-	-	-	-	-
	700	-	-	1	-	-	-	-	-	-	1	-	-	-	-
	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: For the X high-speed/Y high-speed type, the Y-axis stroke must be 300 mm or more.

List by Cable Length									
Type	Cable code	Length							
	1L	1m							
Standard type	3L	3m							
	5L	5m							

- * Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.
- * Refer to P. 90 for lengths other than those specified above.

Cable track										
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600	650-800						
wiring I (Next to X-axis)										
Wiring 2 (Next to Y-axis)	Y-axis stroke	200	250-400	-						
Willing 2 (Next to 1-axis)				-						

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1(X-axis) Axis 2 (Y-axis)

Specification	ns								
	Item		Y axis						
Axis model				RCS2-SS8R			RCS2-SS8R		
Studio (Combono	t i = 50 i = t-)			50-800mm			High-speed type: 300-400mm		
Stroke (Can be se	t in 50-mm increments)		Medium speed type: 100-400mm						
	Stroke	50-400mm	450-500mm	550-600mm	650-700mm	750-800mm	100-400mm		
Max speed	High speed	1000mm/s	960mm/s	765mm/s	625mm/s	515mm/s	1000mm/s		
	Medium speed	500mm/s	480mm/s	380mm/s	310mm/s	255mm/s	500mm/s		
Motor output (W)			100W						
Ball screw lead		High-speed type: 20mm Medium-speed type: 10mm							
Drive method		Ball screw, ø16 mm, rolled, C10							
Positioning repeatability		±0.02mm							
Base material		Dedicated alloy steel							
Surrounding air temperature/humidity				0 to 40°C, 85% F	H or below (non-co	ondensing)			



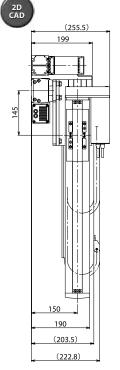
You can download CAD drawings from our website. www.intelligentactuator.com

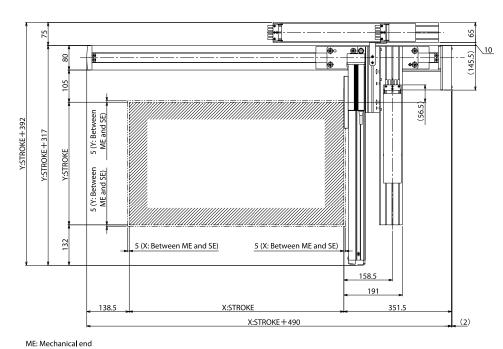
Note 1. The connected position shown in the drawing defines the home.

Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

Note 3. For details on the cable track, refer to P. 90.

Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.





(Tolerance for reamed hole pitch: ±0.02)

4-M8, depth 10
2-Ø8H7, depth 10

2-Ø8H7, depth 10

52

52

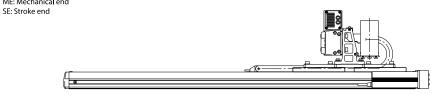
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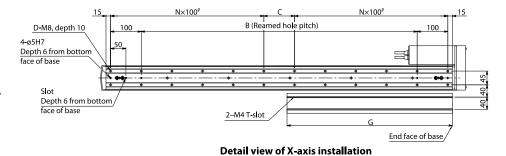
54

55

65

73





Detail view of Y-axis slider

Detail view of slot in bottom face

of X-axis base

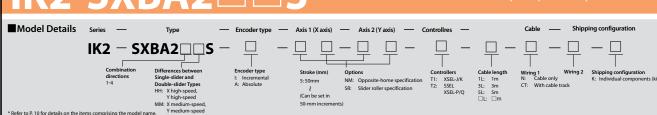
■Dimensions by Stroke

X: Nominal stroke	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
X: Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
В	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	214.5	239.5	264.5	289.5	314.5	339.5	364.5	389.5	414.5	439.5	464.5	489.5	514.5	539.5	564.5	589.5

Controllers

Applicable controller

Cable — Shipping configuration





■ Maximum Stroke

X axis 1000 mm 350 mm

■ Maximum Speed

······································		
	High-speed type	Medium-speed type
X axis	1000mm/s	500mm/s
Y axis	1000mm/s	500mm/s

■ Maximum Load Capacity

X high-speed, Y high-speed	X high-speed, Y high-speed	X medium-speed, Y medium-speed
50mm	12kg	24kg
100mm	12kg	20.5kg
150mm	11.5kg	15.5kg
200mm	11kg	12.5kg
250mm	10kg	_
300mm	8.5kg	-
350mm	7kg	_

Both wiring 1 and wiring 2 assume use of a cable track.

				- 1	ncrement	al		Absolute							
	Y-axis stroke	50	100	150	200	250	300	350	50	100	150	200	250	300	350
	50		-	-	-	-	-	-	-	_	-	-	-	-	-
	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	200	-	ı	-	-	-	-	-	-	-	1	-	-	-	-
	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trok	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-
st	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-
xis	550	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-a	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
×	650	-	-	-	-	-	-	-	-	_	-	-	-	-	-
	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	850	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	950	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1000	-	-	-	-	_	_	_	_	_	-	_	_	_	_

Note: For the X medium-speed/Y medium-speed type, the Y-axis stroke must be 200 mm or less.

List by Cable Length								
Type	Cable code	Length						
	1L	1m						
Standard type	3L	3m						
	5L	5m						

^{*} Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

Cable track					
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600	650-900	950-1000
Wiring 2 (Next to Y-axis)	Y-axis stroke	50-200	250-300	_	_
Training 2 (Text to 1 dxis)				_	-

List of Options									
Name	Option code								
Opposite-home specification	NM								
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)							

Specifications	5								
lt.	tem		Y axis						
Axis model				RCS2-SS8C			RCS2-SS8R		
Stroke (Can be set in 50-mm increments)			High-speed type: 50-350mm Medium speed type: 50-200mm						
	Stroke	50-600mm	650-700mm	750-800mm	850-900mm	950-1000mm	50-350mm		
Max speed	High speed	1000mm/s	960mm/s	765mm/s	625mm/s	515mm/s	1000mm/s		
	Medium speed	500mm/s	480mm/s	380mm/s	310mm/s	255mm/s	500mm/s		
Motor output (W)			100W						
Ball screw lead		High-speed type: 20mm Medium-speed type: 10mm							
Drive method		Ball screw, ø16 mm, rolled, C10							
Positioning repeat	ability	±0.02mm							
Base material		Dedicated alloy steel							
Surrounding air te	mperature/humidity			0 to 40°C, 85% F	RH or below (non-co	ondensing)	·		

^{*} Refer to P. 90 for lengths other than those specified above.





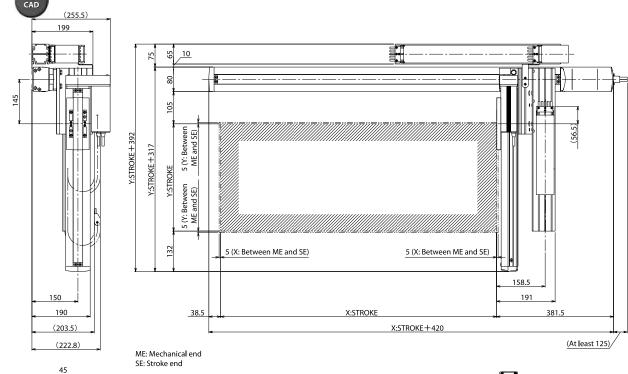
Dimensions

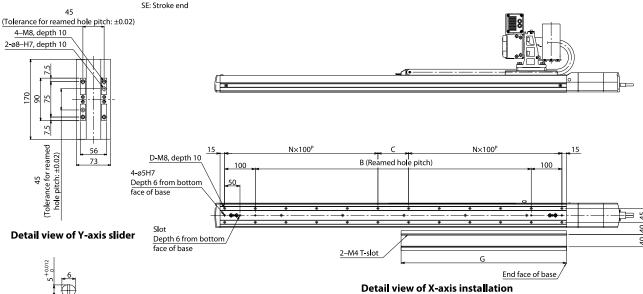
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Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

Note 3. For details on the cable track, refer to P. 90.

Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.





Detail view of slot in bottom face of X-axis base

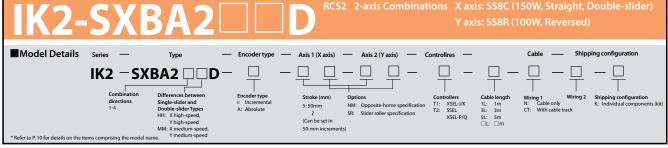
■Dimensions by Stroke

X: Model	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
В	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	8	8	8	10	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	114.5	139.5	164.5	189.5	214.5	239.5	264.5	289.5	314.5	339.5	364.5	389.5	414.5	439.5	464.5	489.5	514.5	539.5	564.5	589.5

Controllers

Applicable controller

IK





■ Maximum Stroke

X axis 800 mm Y axis 400 mm

■ Maximum Speed

	High-speed type	Medium-speed type
X axis	1000mm/s	500mm/s
Y axis	1000mm/s	500mm/s

■ Maximum Load Capacity

Maximum Load Capac		
Y-axis stroke	X high-speed, Y high-speed	X medium-speed, Y medium-speed
100mm	-	24kg
150mm	-	24kg
200mm	-	23kg
250mm	-	19kg
300mm	11kg	16kg
350mm	10.5kg	13.5kg
400mm	10kg	11.5kg

Both wiring 1 and wiring 2 assume use of a cable track.

List	by Stroke																
	Incremental									Absolute							
	Y-axis stroke	100	150	200	250	300	350	400	100	150	200	250	300	350	400		
	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
e e	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
trok	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
str	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<u>.s</u>	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ä×	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
×	550	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	650	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Note: For the X high-speed/Y high-speed type, the Y-axis stroke must be 300 mm or more.

List by Cable Length											
Type Cable code Length											
	1L	1m									
Standard type	3L	3m									
1	5L	5m									

^{*} Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

Cable track				
Wiring 1 (Next to X-axis)	X-axis stroke	50-300	350-600	650-800
Willing I (Next to X axis)				
Wiring 2 (Next to Y-axis)	Y-axis stroke	200	250-400	-
wiring 2 (Next to 1-axis)				-

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Y-axis)

Specifications									
lte	em			X axis			Y axis		
Axis model			RCS2-SS8R						
Stroke (Can be set in	n 50-mm increments)			50-800mm			High-speed type: 300-400mm		
							Medium speed type: 100-400mm		
	Stroke	50-400mm	450-500mm	550-600mm	650-700mm	750-800mm	100-400mm		
Max speed	High speed	1000mm/s	960mm/s	765mm/s	625mm/s	515mm/s	1000mm/s		
	Medium speed	500mm/s	480mm/s	380mm/s	310mm/s	255mm/s	500mm/s		
Motor output (W)			100W						
Ball screw lead					speed type: 20mm				
Drive method				Ball screv	w, ø16 mm, rolled, (C10			
Positioning repeata	bility	±0.02mm							
Base material		Dedicated alloy steel							
Surrounding air tem	perature/humidity			0 to 40°C, 85% F	RH or below (non-co	ondensing)			

^{*} Refer to P. 90 for lengths other than those specified above.



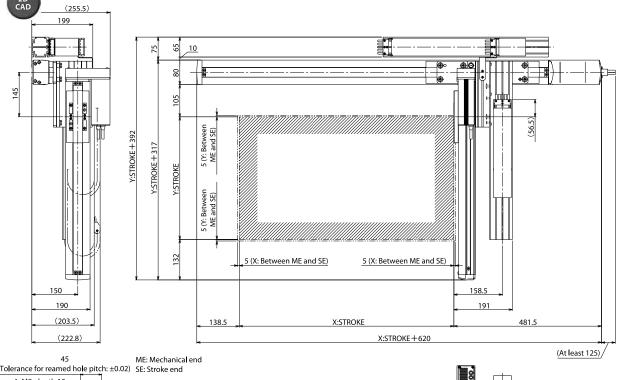


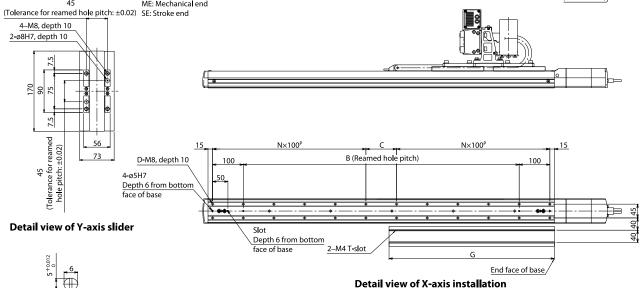


Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

Note 3. For details on the cable track, refer to P. 90.

Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.





Detail view of slot in bottom face of X-axis base

■Dimensions by Stroke

X: Nominal stroke	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
X: Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
В	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
C	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	214.5	239.5	264.5	289.5	314.5	339.5	364.5	389.5	414.5	439.5	464.5	489.5	514.5	539.5	564.5	589.5

Controllers

Applicable controller



IK

IK2-SXZB1 S

RCS2 2-axis combination (XZ) X axis: SS8R (100W, Reversed, Single-slider
Z axis: SAZR (Reversed)



■ Maximum Stroke

X axis 1000 mm Z axis 250 mm

■ Maximum Speed

	High-speed type	Medium-speed type	Low-speed type
X axis	1000mm/s	-	1
Z axis	800mm/s	400mm/s	200mm/s

■ Maximum Load Capacity

	· · · /		
Z-axis stroke	Z-axis high-speed, lead 16	Z-axis medium-speed, lead 8	Z-axis low-speed, lead 4
50mm	2.0kg	4.0kg	8.0kg
100mm	2.0kg	4.0kg	7.0kg
150mm	2.0kg	3.5kg	5.0kg
200mm	2.0kg	3.5kg	4.0kg
250mm	1.5kg	2.5kg	3.0kg

	ist by Stroke										
				Incremental					Absolute		
	Z-axis stroke	50	100	150	200	250	50	100	150	200	250
	50	-	_	-	-	-	-	-	-	-	-
	100	ı	_	_	-	ı	_	-	_	_	_
	150	_	_	_	_	_	_	_	_	_	_
	200	-	-	-	-	-	_	-	-	-	-
	250	-	_	-	-	-	-	-	-	_	-
	300	ı	_	_	-	ı	_	-	_	_	_
	350	_	_	_	_	_	_	_	_	_	_
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	700	-	-	-	-	-	_	-	-	-	-
	750	_	_	-	-	-	_	-	-	_	-
	800	-	-	-	-	1	_	-	-	-	-
	850	-	_	-	-	-	_	-	-	-	-
	900	_	-	-	-	-	_	-	-	-	-
	950	-	-	-	-	-	-	-	-	_	-
	1000	_	_	-	-	-	_	_	-	-	-

List by Cable Length								
Type	Cable code	Length						
	1L	1m						
Standard type	3L	3m						
	5L	5m						

^{*} Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

Cable track					
Wiring 1 (Next to X-axis)	X-axis stroke	150-300	350-600	650-900	950-1000
wiring I (Next to X-axis)					

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Z-axis)

Specifications	5						
It	em			X axis			Z axis
Axis model				RCS2-SS8R			RCS2-SA7R
Stroke (Can be set	in 50-mm increments)			50-1000mm			50-250mm
	Stroke	50-600mm	650-700mm	750-800mm	850-900mm	950-1000mm	50-250mm
	High speed	1000mm/s	960mm/s	765mm/s	625mm/s	515mm/s	800mm/s
Max speed	Medium speed	-	-	-	-	-	400mm/s
	Low speed	-	-	-	-	-	200mm/s
Motor output (W)				60W			
					High-speed type: 16mm		
Ball screw lead			Higl		Medium-speed type: 8mm		
							Low-speed type: 4mm
Drive method			Ball scr	Ball screw, ø12 mm, rolled, C10			
Positioning repeat	ability						
Base material			D	Aluminum			
Surrounding air temperature/humidity 0 to 40°C, 85% RH or below (non-condensing)							

 $[\]ensuremath{^{*}}$ Refer to P. 90 for lengths other than those specified above.

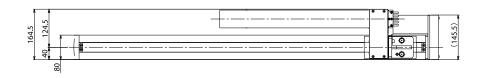


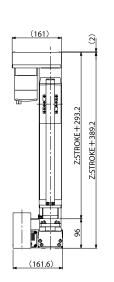
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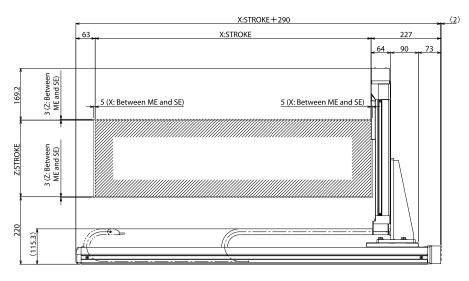
Note 1. The connected position shown in the drawing defines the home.

Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

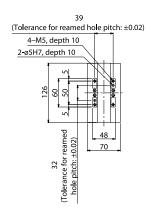
Note 3. For details on the cable track, refer to P. 90. Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.

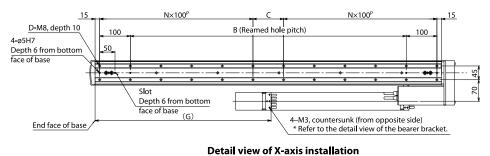






ME: Mechanical end SE: Stroke end





Detail view of Z-axis slider

Detail view of slot in bottom face of X-axis base

■Dimensions by Stroke

	•																			
X: Model	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
В	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	8	8	8	10	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	-	-	199	224	249	274	299	324	349	374	399	424	449	474	499	524	549	574	599	624

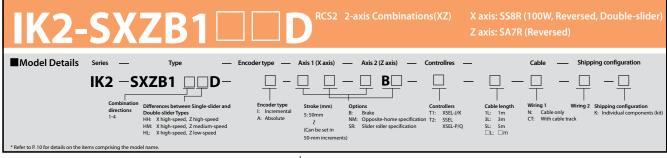
^{*} A bearer is not set when the X stroke is 50 or 100.

Controllers

Applicable controller



IK





■ Maximum Stroke

X axis	800 mm	Zaxis	300 mm	
				_

■Maximum Speed

	High-speed type	Medium-speed type	Low-speed type
X axis	1000mm/s	_	-
Z axis	800mm/s	400mm/s	200mm/s

■ Maximum Load Capacity

Z-axis stroke	Z-axis high-speed, lead 16	Z-axis medium-speed, lead 8	Z-axis low-speed, lead 4
150mm	_	_	7.0kg
200mm	-	-	7.0kg
250mm	m – – –		5.5kg
300mm	1.5kg	3.0kg	5.5kg

List	by Stroke											
			Incremental Absolute									
	Y-axis stroke	150	200	250	300	150	200	250	300			
	50	_	-	-	-	-	-	-	_			
	100	_	-	-	-	_	-	-	-			
	150	_	_	-	_	-	_	-	_			
	200	_	-	-	-	-	-	-	-			
	250	-	-	-	-	-	-	-	_			
ě.	300	-	-	-	-	-	-	-	-			
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	600	_	-	-	-	-	-	-	-			
	650	_	-	_	-	_	-	_	-			
	700	-	-	-	-	-	-	-	-			
	750	-	-	-	-	-	-	-	-			
	800	-	-	-	-	-	-	-	-			

Note: For the Z high-speed type and Z medium-speed type, The Z-axis stroke is limited to 300 mm.

List by Cable Length							
Type Cable code Length							
	1L	1m					
Standard type	3L	3m					
	5L	5m					

^{*} Refer to P. 90 for lengths other than those specified above.

Cable track				
Wiring 1 (Next to X-axis)	X-axis stroke	150-300	350-600	650-800
wiring I (Next to X-axis)				

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (X-axis) Axis 2 (Z-axis)

Specifications										
Ite	m			X axis			Z axis			
Axis model				RCS2-SS8R			RCS2-SA7R			
Stroke (Can be set in	50-mm increments)		High-speed type: 300mm Medium-speed type: 300mm Low-speed type: 150-300mm							
	Stroke	50-400mm	450-500mm	550-600mm	650-700mm	750-800mm	150-300mm			
	High speed	1000mm/s	960mm/s	765mm/s	625mm/s	515mm/s	800mm/s			
Max speed	Medium speed	-	-			-	400mm/s			
	Low speed						200mm/s			
Motor output (W)				60W						
			High-speed type: 16mm							
Ball screw lead			Hig		Medium-speed type: 8mm					
							Low-speed type: 4mm			
Drive method			Ball scr	ew, ø16 mm, rolled,	C10		Ball screw, ø12 mm, rolled, C10			
Positioning repeatab	oility		±0.02mm							
Base material		Dedicated alloy steel Aluminum								
Surrounding air tem	perature/humidity			0 to 40°C, 85% F	RH or below (non-co	ondensing)				

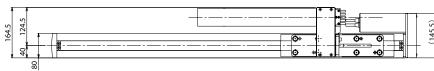


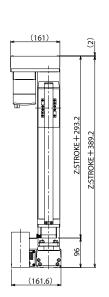
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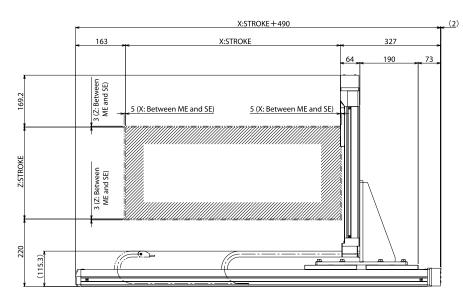
Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

Note 3. For details on the cable track, refer to P. 90.

Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.

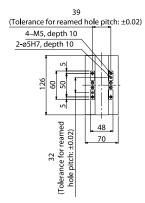


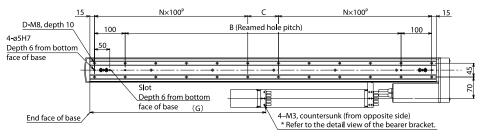




ME: Mechanical end







Detail view of X-axis installation

Detail view of Z-axis slider



Detail view of slot in bottom face of X-axis base

■Dimensions by Stroke

X: Nominal stroke	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
X: Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
В	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	-	-	299	324	349	374	399	424	449	474	499	524	549	574	599	624

^{*} A bearer is not set when the X stroke is 50 or 100.

Controllers

Applicable controller



IK

■Model Details Axis 1 (Y axis) — Axis 2 (Z axis) — Controllres — Shipping configuration — Encoder type — $IK2 - SYBB1 \square \square S$ $- \square B\square$ Differences between Single-slider an Double-slider Types HH: Y high-speed, Z high-speed HM: Y high-speed, Z medium-speed HL: Y high-speed, Z low-speed
 Options
 Controllers

 B:
 Brake
 T1:
 XSEL-J/K

 NM:
 Opposite-home specification
 T2:
 SSEL

 SR:
 Slider roller specification
 XSEL-P/Q
 Cable length
1L: 1m
3L: 3m
5L: 5m
L: 0m 5: 50mm (Can be set in

50-mm increm



tefer to P. 10 for details on the items comprising the model name

Both wiring 1 and wiring 2 assume use of a cable track.

■ Maximum Stroke

	21.0110			
Y axis	1000 mm	Z axis	300 mm	

■ Maximum Speed

	High-speed type	Medium-speed type	Low-speed type
Y axis	1000mm/s	_	_
Z axis	800mm/s	400mm/s	200mm/s

■ Maximum Load Capacity

-	waxiiiidiii Load Cap	acity		
	Z-axis stroke	Z-axis high-speed, lead 16	Z-axis medium-speed, lead 8	Z-axis low-speed, lead 4
	50mm	2.0kg	4.0kg	8.0kg
	100mm	2.0kg	4.0kg	8.0kg
	150mm	2.0kg	3.5kg	7.0kg
	200mm	2.0kg	3.5kg	7.0kg
	250mm	1.5kg	3.0kg	6.0kg
	300mm	1.5kg	3.0kg	5.5kg

1	ist by Stroke													
				Incre	mental		Absolute							
	Z-axis stroke	xis stroke 50 100			200	250	300	50	100	150	200	250	300	
	50	_	-	_	-	_	-	-	-	-	_	-	_	
	100	-	-	_	-	-	-	-	_	_	_	-	_	
	150	_	_	-	-	-	-	-	-	-	-	-	-	
	200	_	-	-	-	-	-	-	-	-	-	-	-	
	250	-	-	-	-	-	-	-	-	-	_	-	-	
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Cable treet

List by Cable Length Cable code Type Length 1L 1m Standard type 3L 3m

5L

5m

Cable track					
Wiring 1 (Next to Y-axis)	Y-axis stroke	50-300	350-600	650-900	950-1000
Wiring 1 (Next to Y-axis)					
Wiring 2 (Next to 7-axis)	Z-axis stroke	50-200	250-300	_	_

List of Options		
Name	Option code	
Opposite-home specification	NM	
Slider roller specification	SR	Axis 1 (Y-axis) Axis 2 (Z-axis)

Specifications										
Iter	m			Y axis			Z axis			
Axis model				RCS2-SS8R			RCS2-SA7R			
Stroke (Can be set in	50-mm increments)			50-300mm						
	Stroke	50-600mm	650-700mm	750-800mm	850-900mm	950-1000mm	50-300mm			
	High speed	1000mm/s	960mm/s	765mm/s	625mm/s	515mm/s	800mm/s			
Max speed	Medium speed	-	-	-	-	-	400mm/s			
	Low speed						200mm/s			
Motor output (W)				60W						
		High-speed type: 16mm								
Ball screw lead			Medium-speed type: 8mm							
							Low-speed type: 4mm			
Drive method			Ball screw, ø16 mm, rolled, C10 Ball screw, ø12 mm, rolled, C10							
Positioning repeatab	oility									
Base material		Dedicated alloy steel Aluminum								
Surrounding air tem	perature/humidity			0 to 40°C, 85% R	RH or below (non-co	ondensing)				

^{*} Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

^{*} Refer to P. 90 for lengths other than those specified above.

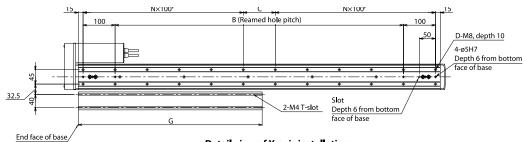


Note 2. Both wiring 1 and wiring 2 assume use of a cable track.

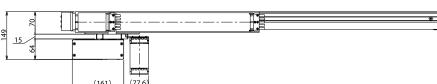
Note 3. For details on the cable track, refer to P. 90.

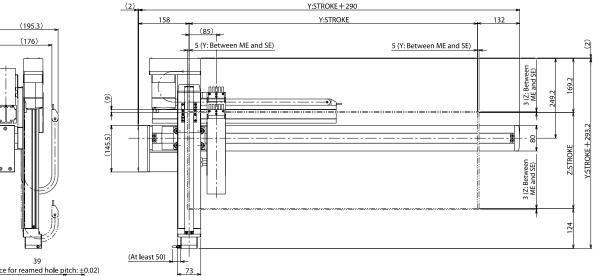
Note 4. For details on the bracket on the moving end of the cable track, refer to P. 90.

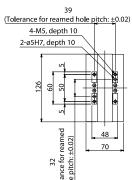
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Detail view of Y-axis installation







Dimensions

ME: Mechanical end SE: Stroke end

Detail view of Z-axis slider Detail view of slot in bottom face of Y-axis base

■Dimensions by Stroke

_		, .																			
	Y: Model	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
	В	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
	С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
	D	8	8	8	10	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
	N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
	G	149	174	199	224	249	274	299	324	349	374	399	424	449	474	499	524	549	574	599	624

Controllers

Applicable controller



Cable Shipping configuration ■Model Details Axis 1 (X axis) — Axis 2 (Y axis) — Axis 3 (Z axis) — Controllers — Encoder type — IK3 — PBBG1□□S □ B□ **-P1**- □ Differences between Single-slider and
Double-slider Types
HHH: X high-speed, Y high-speed, Z high-speed
HHM: X high-speed, Y high-speed, Z low-speed
HHL: X high-speed, Y high-speed, Z low-speed Wiring 1 Wiring
N: Cable only
CT: With cable track (Can be set in



With cable tracks (Wiring 3 does not come with a cable track.)

■Maximum Stroke

(X axis 1000 mm (Yaxis 300 mm Z axis 200 mm

■ Maximum Speed

	X high-speed, Y high-speed, Z high-speed	X high-speed, Y high-speed, Z medium-speed	X high-speed, Y high-speed, Z low-speed
X axis		220mm/s	
Y axis		420mm/s	
Z axis	500mms	250mm/s	125mm/s

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed, Z high-speed	X high-speed, Y high-speed, Z medium-speed	X high-speed, Y high-speed, Z low-speed
50mm			
100mm			
150mm	1.01/2	2.01/4	4.014
200mm	1.0kg	2.0kg	4.0kg
250mm			
300mm			

List by Stroke	
V-avic ctroko	

	Y-axis stroke 50						1	00			15	50	
	Z-axis stroke	50	100	150	200	50	100	150	200	50	100	150	200
	50	_	-	_	-	1	ı	-	-	_	-	-	_
	100	-	-	-	-	-	-	-	-	_	-	-	_
	150	_	-	_	-	_	_	_	_	_	-	_	_
	200	ı	_	_	_	ı	I	-	_	-	-	_	_
	250	1	_	_	_	ı	ı	-	_	-	_	-	_
	300	ı	_	-	_	1	I	-	_	-	_	_	_
	350	-	_	_	_	1	ı	-	_	_	_	_	_
ě	400	-	_	-	_	-	ı	-	_	_	_	-	_
2	450	_	_	-	_	-	1	-	-	_	_	_	_
st	500	-	-	-	-	-	-	-	-	-	-	-	_
×is	550	_	-	-	-	-	-	_	-	_	-	-	_
ã	600	_	_	-	_	-	-	-	_	_	_	_	_
×	650	_	_	-	-	1	-	-	-	-	_	-	_
	700	ı	_	-	_	ı	I	-	_	-	-	_	_
	750	1	_	_	_	ı	ı	-	_	-	-	_	_
	800	ı	_	-	_	1	I	-	_	-	_	_	_
	850	1	-	_	-	ı	I	-	_	1	-	-	_
	900	-	_	_	-	1	ı	-	-	-	-	_	_
	950	-	-	_	-	1	ı	-	_	-	-	-	_
1	1000	-	_	-	-	-	-	-	_	-	-	-	_

	1000														
=															
						Incremental									
	Y-axis stroke		2	00			2	50			30	00			
	Z-axis stroke	50	100	150	200	50	100	150	200	50	100	150	200		
	50	-	-	-	-	-	_	-	-	-	-	-	-		
	100	_	-	-	-	-	_	-	-	-	-	-	-		
	150	-	-	_	_	_	_	-	_	-	_	-	-		
	200	_	-	-	-	-	_	-	-	-	-	-	-		
	250	-	-	-	-	-	_	-	-	-	_	-	-		
	300	-	-	-	-	-	_	-	-	-	-	-	-		
	350	_	-	-	-	-	_	_	-	-	_	-	_		
ě.	400	-	-	-	-	-	_	_	-	-	-	-	_		
2	450	_	-	-	-	_	-	-	-	-	-	-	-		
st	500	_	-	-	-	-	_	_	-	-	-	-	_		
<u>.s</u>	550	_	-	-	-	-	_	_	-	-	_	_	-		
ă	600	_	-	-	-	-	_	-	-	-	-	-	-		
×	650	-	-	-	-	-	_	_	-	-	_	-	-		
	700	_	-	-	-	-	_	-	-	-	-	-	-		
	750	-	-	-	-	-	_	-	-	-	_	-	-		
	800	-	-	-	-	-	_	_	-	-	-	-	-		
	850	_	-	-	-	-	-	_	-	-	_	-	-		
	900	_	-	-	-	-	_	_	-	-	-	-	-		
	950	_	-	-	-	-	_	_	-	-	_	-	-		
1	1000	_	_	_	_	_	_	_	_	_	_	_	_		

List by Cable Length Type Length 1L 3L

5L	5m	
* Axis 1 comes with a standard cabl	le, while axes 2 ar	d 3 come with a robot cable.

_	<u> </u>
Refe	r to P. 90 for lengths other than those specified above.
LVIO	1 comes with a standard cable, write axes 2 and 5 con

V auta atualia	430-000		
X-axis stroke	650-800	-	_
	850-1000	1	ı
	and wiring 2 should		

50-400

of the two should have a cable track. A cable track cannot specified for one of the wirings.	ot be
List by Cable Length	

Y-axis stroke

50-200

List by Cable Length									
Name	Option code								
Opposite-home specification	NM								
Slider roller specification	SR								

Cable track

Standard type

IK

Specifications								
Item	X axis	Y axis	Z axis					
Axis model	RCP2-SS8R	RCP2-SA7R	RCP2-SA6R					
Stroke (Can be set in 50-mm increments)	50-1000mm	50-300mm	50-200mm					
			High-speed type: 500mm/s					
Axis 2	High-speed type: 220mm/s	High-speed type: 420mm/s	RCP2-SA6R 50-200mm High-speed type: 500mm/s Medium-speed type: 125mm/s 42-square pulse motor High-speed type: 12mm Medium-speed type: 6mm Low-speed type: 3mm Ball screw, ø10mm, rolled, C10					
			Low-speed type: 125mm/s					
Motor size	56-square pulse motor	56-square pulse motor	42-square pulse motor					
			High-speed type: 12mm					
Ball screw lead	High-speed type: 20mm	High-speed type: 16mm	High-speed type: 12mm					
			Low-speed type: 3mm					
Drive method	Ball screw, ø16mm, rolled, C10	Ball screw, ø12mm, rolled, C10	Ball screw, ø10mm, rolled, C10					
Positioning repeatability		±0.02mm						
Base material	Dedicated alloy steel	Alum	inum					
Surrounding air temperature/humidity 0 to 40°C, 85% RH or below (non-condensing)								

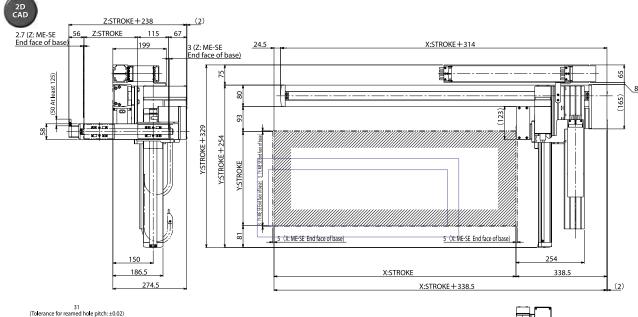
Dimensions

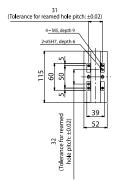
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Note 1. The connected position shown in the drawing defines the home

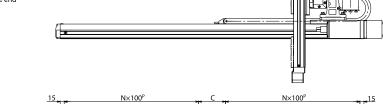
Note 2.The drawing below assumes that both wiring 1 and wiring 2 have a cable track.

Note 3. For details on the cable track, refer to P. 90.





ME: Mechanical end SE: Stroke end



Detail view of Z-axis slider

B (Reamed hole pitch) 100 D-M8, depth 10 100 Slot Depth 6 from bottom face of base 2 - M4 T-slot, End face of base,

Detail view of slot in bottom face of X-axis base

Detail view of X-axis installation

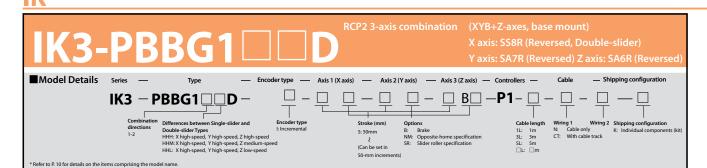
■ Dimensions by Stroke

X: Model	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
В	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	8	8	8	10	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	114.5	139.5	164.5	189.5	214.5	239.5	264.5	289.5	314.5	339.5	364.5	389.5	414.5	439.5	464.5	489.5	514.5	539.5	564.5	589.5

Controllers

Applicable controller







■ Maximum Stroke

X axis 800 mm

axis 400 mm

Z axis 200 mm

■Maximum Speed

	X high-speed, Y high-speed, Z high-speed X high-speed, Y high-speed, Z medium-speed X high-speed, Y high-speed, Z lo									
X axis	220mm/s									
Y axis		420mm/s								
Z axis	500mms	250mm/s	125mm/s							

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed, Z high-speed	X high-speed, Y high-speed, Z medium-speed	X high-speed, Y high-speed, Z low-speed
350mm	1.01	2.01.0	4.01
400mm	1.0kg	2.0kg	4.0kg

With cable tracks (Wiring 3 does not come with a cable track.)

List	by Stroke										
	Incremental										
	Y-axis stroke		3.5	50			40	00			
	Z-axis stroke	50	100	150	200	50	100	150	200		
	50	_	-	-	-	-	-	-	_		
	100	-	-	-	-	-	-	-	-		
	150	-	i	_	_	_	_	_	_		
	200	-	_	-	_	_	-	_	_		
	250	_	_	_	_	_	_	_	_		
e e	300	-	-	-	-	-	-	-	-		
troke	350	_	_	_	-	-	-	-	_		
st	400	-	_	-	_	_	-	_	-		
i.s	450	_	_	_	_	_	_	_	_		
-a×	500	-	-	-	-	-	-	_	_		
×	550	-	_	_	_	_	_	_	_		
	600	-	ı	-	_	_	-	_	_		
	650	-	-	-	_	_	-	_	_		
	700	-	-	-	-	_	-	_	_		
	750	-	-	-	_	-	-	-	_		
	800	-	ı	-	-	_	-	-	-		

List by Cable Length								
Type Cable code Length								
	1L	1m						
Standard type	3L	3m						
	5L	5m						

^{*} Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

Cable track									
		Y-axis stroke							
		350-400							
	50-400	_							
X-axis stroke	450-600	_							
	650-800	_							

Note) Both wiring 1 and wiring 2 should have a cable bear, or neither of the two should have a cable track. A cable track cannot be specified for one of the wirings.

		ength

Name	Option code
Opposite-home specification	NM
Slider roller specification	SR

Specifications						
ltem	X axis	Y axis	Z axis			
Axis model	RCP2-SS8R	RCP2-SA7R	RCP2-SA6R			
Stroke (Can be set in 50-mm increments)	50-800mm	350-400mm	50-200mm			
Max speed			High-speed type: 500mm/s			
	High-speed type: 220mm/s	High-speed type: 420mm/s	Medium-speed type: 250mm/s			
			Low-speed type: 125mm/s			
Motor size	56-square pulse motor	56-square pulse motor	42-square pulse motor			
			High-speed type: 12mm			
Ball screw lead	High-speed type: 20mm	High-speed type: 16mm	Medium-speed type: 6mm			
			Low-speed type: 3mm			
Drive method	Ball screw, ø16mm, rolled, C10	Ball screw, ø12mm, rolled, C10	Ball screw, ø10mm, rolled, C10			
Positioning repeatability		±0.02mm				
Base material	Dedicated alloy steel	Aluminum				
Surrounding air temperature/humidity	•	0 to 40°C, 85% RH or below (non-conden	sing)			

 $[\]ensuremath{^{*}}$ Refer to P. 90 for lengths other than those specified above.

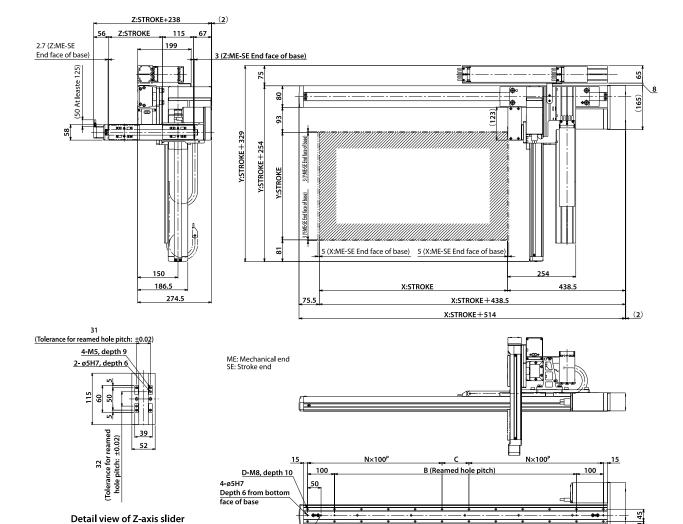


Dimensions





Note 1. The connected position shown in the drawing defines the home. Note 2.The drawing below assumes that both wiring 1 and wiring 2 have a cable track. Note 3. For details on the cable track, refer to P. 90.



Depth 6 from bottom, face of base

Detail view of slot in bottom

■Dimensions by Stroke X: Nominal stroke Ν 214.5 239.5 264.5 289.5 314.5 339.5 364.5 389.5 414.5 439.5 464.5 489.5 514.5 539.5 564.5 589.5

2 - M4T-slot

Detail view of X-axis installation

Controllers

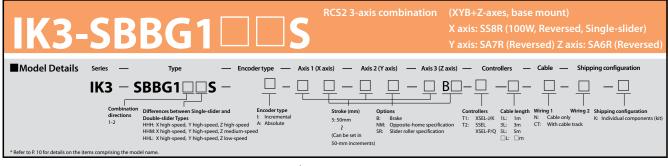
Applicable controller

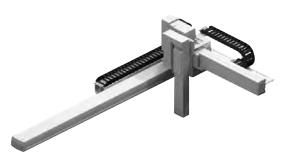


Refer to P. 91 for the controllers.

End face of base/

<u>IK</u>





With cable tracks (Wiring 3 does not come with a cable track.)

■Maximum Stroke

(X axis 1000 mm Y axis 300 mm Z axis 200 mm

■Maximum Speed

	X high-speed, Y high-speed, Z high-speed	X high-speed, Y high-speed, Z medium-speed	X high-speed, Y high-speed, Z low-speed						
X axis		1000mm/s							
Y axis		800mm/s							
7 avis	800mms	400mm/s	200mm/s						

■Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed, Z high-speed	X high-speed, Y high-speed, Z medium-speed	X high-speed, Y high-speed, Z low-speed
50mm			
100mm			
150mm	1 01.0	2.01.0	4.01.0
200mm	1.0kg	2.0kg	4.0kg
250mm			
300mm			

	List by Stroke												
							Increi	mental					
	Y-axis stroke	50					00			15	50		
	Z-axis stroke	50	100	150	200	50	100	150	200	50	100	150	200
	50	-	-	-	-	-	-	ı	-	-	-	-	-
	100	-	-	-	-	-	_	ı	_	-	_	-	_
	150	_	_	_	_	_	_	_	_	_	_	_	_
	200	-	-	-	-	-	_	-	-	-	-	-	-
	250	_	-	-	-	_	-	_	-	-	_	-	-
	300	-	-	-	-	-	-	_	-	-	-	-	-
	350	_	-	-	-	-	-	-	-	-	_	_	-
e e	400	-	-	-	-	-	-	-	-	-	-	-	-
stroke	450	_	_	_	_	_	_	-	-	_	_	_	_
	500	-	-	-	-	-	_	_	-	-	_	-	_
×is	550	_	-	_	_	-	_	_	-	_	_	_	-
ا م	600	-	-	-	-	-	-	-	-	-	-	-	-
×	650	_	-	_	-	-	-	_	-	_	-	_	-
	700	-	-	-	-	-	_	_	-	-	_	-	-
	750	_	-	_	_	_	_	_	-	_	_	_	-
	800	-	-	-	-	-	-	_	-	-	-	-	-
	850	-	-	-	-	-	-	-	-	-	-	-	-
	900	-	-	-	-	-	-	-	-	-	-	-	-
	950	_	-	-	-	_	-	_	-	-	-	-	-
	1000	_	_	_	_	_	_	_	_	_	_	_	_

							Increi	nental						
	Y-axis stroke		2	00			250				300			
	Z-axis stroke	50	100	150	200	50	100	150	200	50	100	150	200	
	50	_	-	-	-	_	-	_	-	-	-	-	-	
	100	-	-	-	-	-	-	-	-	-	-	-	-	
	150	_	-	_	_	_	_		-	_	_	-	_	
	200	_	-	-	-	-	-	-	-	-	-	-	_	
	250	_	-	_	-	-	-		-	_	-	_	-	
	300	-	-	-	-	-	-	-	-	-	-	-	-	
	350	_	-	_	_	_	_	_	-	_	_	-	_	
e e	400	_	-	-	-	_	-	-	-	-	-	-	_	
rok	450	_	-	_	_	_	_		-	_	_	-	_	
st	500	-	-	-	-	-	_	-	-	-	-	-	-	
xis	550	_	-	_	-	_	-	_	-	-	-	-	-	
-a	600	_	-	-	-	_	-	-	-	-	-	-	_	
×	650	_	_	_	_	_	_	_	_	_	_	_	_	
	700	-	-	-	-	-	-	_	-	-	-	-	_	
	750	_	-	-	-	_	-	_	-	-	-	-	-	
	800	_	-	-	-	-	-	_	-	_	-	-	_	
	850	_	_	_	_	_	_	_	_	_	_	_	_	
	900	-	-	_	-	-	_	_	-	-	-	-	_	
	950	-	_	_	_	ı	_	_	_	_	_	_	-	
	1000	_	_	_	_	_	_	-	_	-	_	_	_	

				Incremental									
	Y-axis stroke		5	0				00		150			
	Z-axis stroke	50	100	150	200	50	100	150	200	50	100	150	200
	50	_	_	ı	-	ı	_	-	-	-	_	-	_
	100	-	-	-	_	-	-	-	-	-	_	_	_
	150	_	-	_	_	_	_	_	_	_	_	_	_
	200	_	_	-	-	-	-	-	-	-	-	_	-
	250		-	-	_	_	_	_	_	-	-	_	-
	300	-	-	-	-	-	-	-	-	-	-	-	-
	350	_	-	-	_	_	_	_	-	-	_	_	-
A e	400	-	-	-	_	-	-	-	-	-	_	_	_
stroke	450		-	_	_	_	_	_	_	_	-	_	_
	500	-	-	-	-	-	-	-	-	-	-	_	-
×is	550	_	-	-	_	_	_	_	-	-	-	_	-
-a	600	-	-	-	_	-	-	-	-	-	_	-	_
×	650		-	_	_		_		_	_	_	_	_
	700	-	-	-	_	-	_	-	_	-	_	_	_
	750		_	_	_	_	_		_	_	_	_	_
	800	-	-	-	-	-	-	-	-	-	-	-	-
	850	_	-	_	_	_	_	_	-	_	_	_	-
	900	_	-	-	-	-	-	-	-	_	-	_	_
	950		-	-	_	_	_	_	_	-	-	_	-
	1000	_	_	_	_	_	_	_	_	_	_	_	_

							Increi	nental					
	Y-axis stroke		2	00				50			30	00	
	Z-axis stroke	50	100	150	200	50	100	150	200	50	100	150	200
	50	_	_	-	_	_	_	_	_	-	_	_	_
	100	_	-	-	-	-	-	-	-	-	-	-	_
	150	_	-	_	_	_	_	_	_	_	_	_	_
	200	-	-	-	-	-	-	-	_	-	-	-	_
	250	_	-	_	_	_	_	_	_	_	_	_	_
	300	-	-	-	-	-	-	-	-	-	-	-	_
	350	_	-	_	_	_	_	_	_	_	_	_	_
e e	400	-	-	-	-	-	-	-	-	-	-	-	_
stro	450		_	_	_	_	_	_	_	_	_	_	_
	500	-	-	-	-	-	-	-	-	-	-	-	_
×is	550	_	-	_	_	_	_	_	_	_	_	_	_
م	600	_	-	-	-	-	-	-	-	-	-	-	_
×	650	_	_	_	_	_	_	_	_	_	_	_	_
	700	-	-	-	-	-	-	-	-	_	-	-	_
	750	_	_	_	_	_	_	_	_	_	_	_	_
	800	-	-	-	-	-	-	-	-	-	-	-	-
	850	_	_	_	_	_	_	_	_	_	_	_	_
	900	-	_	-	_	-	_	_	_	-	_	-	_
	950	_	_	-	_	_	_	_	_	-	_	_	_
	1000	-	_	-	_	_	_	_	_	_	_	_	_

List by Cable L	List by Cable Length							
Type	Cable code	Length						
	1L	1m						
Standard type	3L	3m						
	51	5m						

^{*} Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

Cable track								
		Y-axis stroke						
		50-200	250-300					
	50-400	1	_					
X-axis stroke	450-600	_	ı					
A-axis stroke	650-800	1	-					
	850-1000	_	_					

Note) Both wiring 1 and wiring 2 should have a cable bear, or neither of the two should have a cable track. A cable track cannot be specified for one of the wirings.

Options	
Name	Option code
Opposite-home specification	NM
Slider roller specification	SR

Specifications						
Item	X axis	Y axis	Z axis			
Axis model	RCS2-SS8R	RCS2-SA7R	RCS2-SA6R			
Stroke (Can be set in 50-mm increments)	50-1000mm	50-300mm	50-200mm			
			High-speed type: 800mm/s			
Max speed	High-speed type: 1000mm/s	High-speed type: 800mm/s	Medium-speed type: 400mm/s			
			Low-speed type: 200mm/s			
Motor output (W)	100W	60W	30W			
·			High-speed type: 12mm			
Ball screw lead	High-speed type: 20mm	High-speed type: 16mm	Medium-speed type: 6mm			
	, ,		Low-speed type: 3mm			
Drive method	Ball screw, ø16mm, rolled, C10	Ball screw, ø12mm, rolled, C10	Ball screw, ø10mm, rolled, C10			
Positioning repeatability		±0.02mm				
Base material	Dedicated alloy steel	Dedicated alloy steel Aluminum				
Surrounding air temperature/humidity 0 to 40°C, 85% RH or below (non-condensing)						

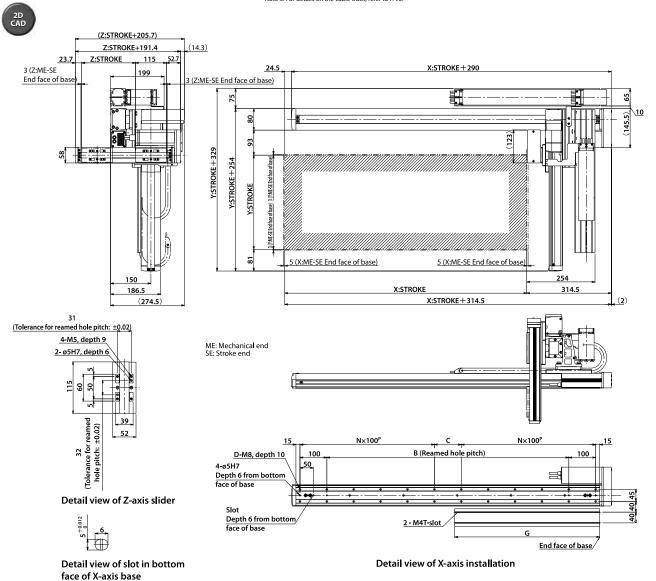
^{*} Refer to P. 90 for lengths other than those specified above.

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Note 1. The connected position shown in the drawing defines the home.

Note 2.The drawing below assumes that both wiring 1 and wiring 2 have a cable track.

Note 3. For details on the cable track, refer to P. 90.



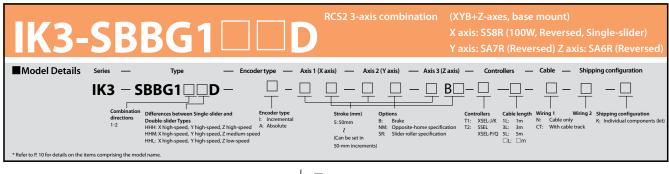
■Dimensions by Stroke

X: Model	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
В	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	8	8	8	10	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	114.5	139.5	164.5	189.5	214.5	239.5	264.5	289.5	314.5	339.5	364.5	389.5	414.5	439.5	464.5	489.5	514.5	539.5	564.5	589.5

Controllers

Applicable controller







■ Maximum Stroke

X axis 800 mm

Y axis 400 mm

Z axis 200 mm

■Maximum Speed

	X high-speed, Y high-speed, Z high-speed	X high-speed, Y high-speed, Z medium-speed	X high-speed, Y high-speed, Z low-speed				
X axis	1000mm/s						
Y axis	800mm/s						
Z axis	800mms	400mm/s	200mm/s				

■ Maximum Load Capacity

Y-axis stroke	X high-speed, Y high-speed, Z high-speed	X high-speed, Y high-speed, Z medium-speed	X high-speed, Y high-speed, Z low-speed
350mm	1 01	2.01	4.01
400mm	1.0kg	2.0kg	4.0kg

With cable tracks (Wiring 3 does not come with a cable track.)

	Incremental						Absolute										
Y-a	xis stroke	350				400			350				400				
Z-a	axis stroke	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	250	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
e e	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
troke	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
st	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
is	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-axi:	500	-	-	-	-	-	-	-	-	-	-	1	-	ı	-	-	-
×	550	-	-	-	-	-	-	-	ı	-	-	ı	-	ı	-	ı	-
	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	650	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
	700	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
i	750	-	-	-	-	-	-	-	-	-	-	ı	-	-	-	-	-
1	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

List by Cable Length

Type	Cable code	Length
	1L	1m
Standard type	3L	3m
	5L	5m

^{*} Axis 1 comes with a standard cable, while axis 2 comes with a robot cable.

Cable track

Cable track								
		Y-axis stroke						
		350-400						
	50-400	_						
X-axis stroke	450-600	_						
	650-800	_						

Note) Both wiring 1 and wiring 2 should have a cable bear, or neither of the two should have a cable track. A cable track cannot be specified for one of the wirings.

Lis by Cable Length

Name	Option code
Opposite-home specification	NM
Slider roller specification	SR

Specifications			
Item	X axis	Y axis	Z axis
Axis model	RCS2-SS8R	RCS2-SA7R	RCS2-SA6R
Stroke (Can be set in 50-mm increments)	50-800mm	350-400mm	50-200mm
·			High-speed type: 800mm/s
Max speed	High-speed type: 1000mm/s	High-speed type: 800mm/s	Medium-speed type: 400mm/s
			Low-speed type: 200mm/s
Motor output (W)	100W	60W	30W
			High-speed type: 12mm
Ball screw lead	High-speed type: 20mm	High-speed type: 16mm	Medium-speed type: 6mm
			Low-speed type: 3mm
Drive method	Ball screw, ø16mm, rolled, C10	Ball screw, ø12mm, rolled, C10	Ball screw, ø10mm, rolled, C10
Positioning repeatability		±0.02mm	
Base material	Dedicated alloy steel	Alum	inum
Surrounding air temperature/humidity	-	0 to 40°C, 85% RH or below (non-conden	sing)

^{*} Refer to P. 90 for lengths other than those specified above.



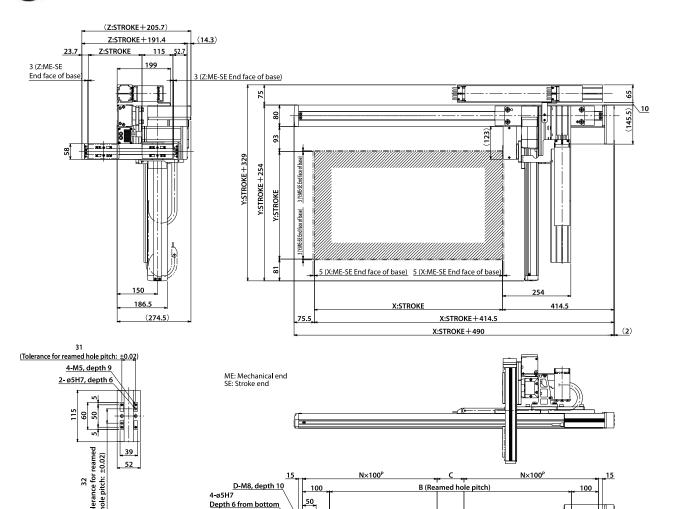


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Note 1. The connected position shown in the drawing defines the home



Note 2.The drawing below assumes that both wiring 1 and wiring 2 have a cable track. Note 3. For details on the cable track, refer to P. 90.



Detail view of Z-axis slider

Detail view of slot in bottom face of X-axis base

Detail view of X-axis installation

End face of base

2 - M4T-slot

■Dimensions by Stroke

face of base

Slot

Depth 6 from bottom face of base

	,,															
X: Nominal stroke	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
X: Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
В	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
С	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
D	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
N	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
G	214.5	239.5	264.5	289.5	314.5	339.5	364.5	389.5	414.5	439.5	464.5	489.5	514.5	539.5	564.5	589.5

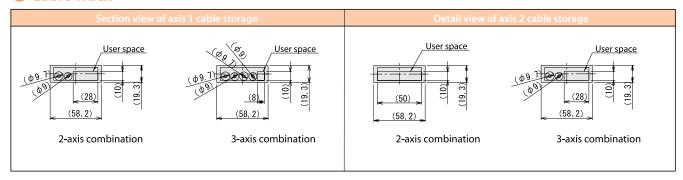
Controllers

Applicable controller

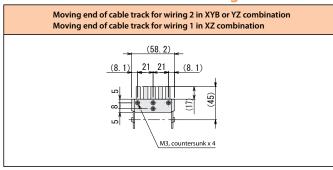


Reference

Cable Track



Detail View of Bracket on Moving End of Cable Track



List by Cable Length

		RCP2 2-axis	RCS2 2-axis	RCP2 3-axis	RCS2 3-axis
		IK2-P	IK2-S	IK3-P	IK3-S
Cable code	Length				
1L	1m	_	_		_
2L	2m	_	_	_	_
3L	3m	_	_		_
4L	4m	_	_	_	_
5L	5m	_	_	_	_
6L	6m	_	_	_	_
7L	7m	_	_	_	_
8L	8m	_	_	_	_
9L	9m	_	_	_	_
10L	10m	_	_	_	_
11L	11m	_	_	_	_
12L	12m	_	_	_	_
13L	13m	_	_	_	_
14L	14m	_	_	_	_
15L	15m	_	_	_	_
16L	16m	_	_	_	_
17L	17m	_	_	_	_
18L	18m	_	_	1	_
19L	19m	_	_	_	_
20L	20m	_	_	-	_

^{*} Axis 1 comes with a standard cable, while axes 2 and 3 come with a robot cable.



Controllers

PSEL	RCP2-series program controller	PSEL-C	93
SSEL	RCS2-series program controller	SSEL-C	103
ROBONET	Field network controller	RPCON/RACON/Gateway units	113
XSEL	RCS2-series multi-axis program controller	X-SEL-J/K/P/Q	125

List of Applicable Controllers

	IA kit model	Applicable controller					
	IK2-PXBD	PSEL-C-2-42PI-42PI-NP-2-0	2-axis controller				
	IK2-PXBC	PCON-C-42PI-NP-2-0	1-axis controller				
		RPCON-42P	1 unit				
	IK2-PXBB	PSEL-C-2-56PI-56PI-NP-2-0	2-axis controller				
	IK2-PXZB	PCON-C-56PI-NP-2-0	1-axis controller				
	IK2-PYBB	RPCON-56P	1 unit				
		SSEL-C-2-60I-20I-NP-2-[1]	2-axis controller (incremental)				
		SSEL-C-2-60A-20A-NP-2-[1]	2-axis controller (absolute)				
	IK2-SXBD	SCON-C-60I-NP-2-[1]	1-axis controller (incremental for X-axis)				
		SCON-C-60A-NP-2-[1]	1-axis controller (absolute for X-axis)				
		SCON-C-20I-NP-2-[1]	1-axis controller (incremental for Y-axis)				
		SCON-C-20A-NP-2-[1]	1-axis controller (absolute for Y-axis)				
		SSEL-C-2-60I-30I-NP-2-[1]	2-axis controller (incremental)				
	IK2-SXBC	SSEL-C-2-60A-30A-NP-2-[1]	2-axis controller (absolute)				
		SCON-C-60I-NP-2-[1]	1-axis controller (incremental for X-axis)				
		SCON-C-60A-NP-2-[1]	1-axis controller (absolute for X-axis)				
		SCON-C-30I-NP-2-[1]	1-axis controller (incremental for Y-axis)				
		SCON-C-30A-NP-2-[1]	1-axis controller (absolute for Y-axis)				
		SSEL-C-2-100I-60I-NP-2-[1]	2-axis controller (incremental)				
		SSEL-C-2-100A-60A-NP-2-[1]	2-axis controller (absolute)				
2!-	IK2-SXBB	SCON-C-100I-NP-2-[1]	1-axis controller (incremental for X-axis)				
2-axis		SCON-C-100A-NP-2-[1]	1-axis controller (absolute for X-axis)				
		SCON-C-60I-NP-2-[1]	1-axis controller (incremental for Y-axis)				
		SCON-C-60A-NP-2-[1]	1-axis controller (absolute for Y-axis)				
		SSEL-C-2-150I-100I-NP-2-[1]	2-axis controller (incremental)				
		SSEL-C-2-150A-100A-NP-2-[1]	2-axis controller (absolute)				
		SCON-C-150I-NP-2-[1]	1-axis controller (incremental for X-axis)				
	IK2-SXBA	SCON-C-1504-NP-2-[1]	1-axis controller (absolute for X-axis)				
		SCON-C-100I-NP-2-[1]	1-axis controller (absolute for X-axis)				
		SCON-C-100A-NP-2-[1]	1-axis controller (absolute for Y-axis)				
		SSEL-C-2-100I-60I-NP-2-[1]	2-axis controller (incremental)				
			` '				
		SSEL-C-2-100A-60A-NP-2-[1]	2-axis controller (absolute)				
	IK2-SXZB	SCON-C-1001-NP-2-[1]	1-axis controller (incremental for X-axis) 1-axis controller (absolute for X-axis)				
		SCON-C-100A-NP-2-[1]					
		SCON-C-60I-NP-2-[1]	1-axis controller (incremental for Z-axis)				
		SCON-C-60A-NP-2-[1]	1-axis controller (absolute for Z-axis)				
		SSEL-C-2-100I-60I-NP-2-[1]	2-axis controller (incremental)				
		SSEL-C-2-100A-60A-NP-2-[1]	2-axis controller (absolute)				
	IK2-SYBB	SCON-C-100I-NP-2-[1]	1-axis controller (incremental for Y-axis)				
		SCON-C-100A-NP-2-[1]	1-axis controller (absolute for Y-axis)				
		SCON-C-60I-NP-2-[1]	1-axis controller (incremental for Z-axis)				
		SCON-C-60A-NP-2-[1]	1-axis controller (absolute for Z-axis)				
		PSEL-C-2-56PI-42PI-NP-2-0	2-axis controller (for X/Y-axes)				
	IK3-PBBG	PCON-C-56PI-NP-2-0	1-axis controller (for X-axis)				
	IK3-FBBG	PCON-C-42PI-NP-2-0	1-axis controller (for Y-axis, Z-axis)				
3-axis		RPCON-56P	1-axis controller (for X-axis)				
		RPCON-42P	1-axis controller (for Y-axis, Z-axis)				
		SSEL-C-2-100I-60I-NP-2-[1]	2-axis controller (incremental for X/Y-axis)				
		SSEL-C-2-100A-60A-NP-2-[1]	2-axis controller (absolute for X/Y-axis)				
		SCON-C-100I-NP-2-[1]	1-axis controller (incremental for X-axis)				
	IK3-SBBG	SCON-C-100A-NP-2-[1]	1-axis controller (absolute for X-axis)				
		SCON-C-60I-NP-2-[1]	1-axis controller (incremental for Y-axis)				
		SCON-C-60A-NP-2-[1]	1-axis controller (absolute for Y-axis)				
		SCON-C-30I-NP-2-[1]	1-axis controller (incremental for Z-axis)				
		SCON-C-30A-NP-2-[1]	1-axis controller (absolute for Z-axis)				
		XSEL-J/K/P/Q	Multi-axis controller (incremental or absolute for X/Y/Z-axis)				



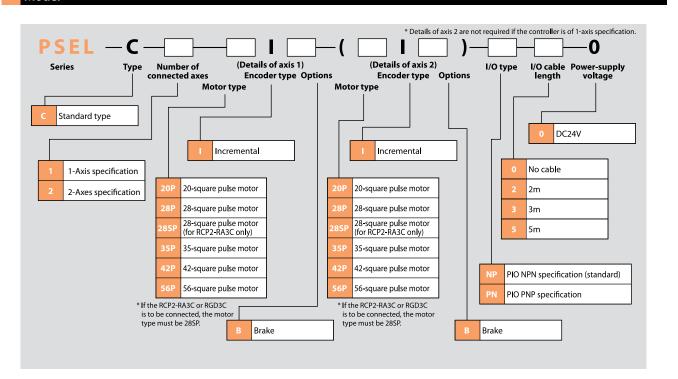
RCP2-series program controller

Model List

A program controller capable of operating RCP2-series actuators. Various controls can be performed with a single unit.

Туре		5
Name	Program mode	Positioner mode
Exterior view		
Description	This controller can operate actuators and communicate with external devices without requiring any additional device. If two axes are operated, arc interpolation and path operation can be performed.	Up to 1,500 positioning points are supported. Push-motion operation and teaching operation are also possible.
Number of positions	1,5	500

Model

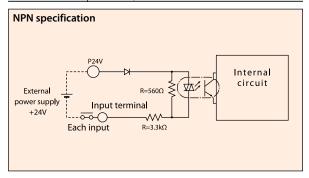


Controllers

I/O Specifications

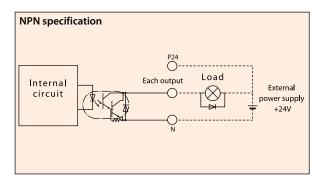
Input External input specifications

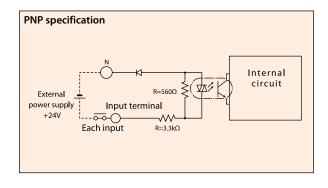
Item	Specification
Input voltage	DC24V ±10%
Input current	7 mA per circuit
ON/OFF welteres	ON voltage (min.) NPN: DC16V/PNP: DC8V
ON/OFF voltages	OFF voltage (max.) NPN: DC5V/PNP: DC19V
Insulation method	Photo-coupler

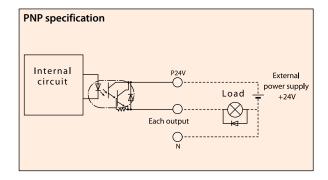


■Output External output specifications

Item	Specification
Load voltage	DC24V
Maximum load current	100 mA per point, total 400 mA for 8 points
Leak current (max.)	Max. 0.1 mA per point
Insulation method	Photo-coupler







Explanation of I/O Functions

The PSEL controller can be operated in the "Program Mode" where a program is entered to operate the actuator or "Positioner Mode" where the actuator is moved to positions specified by signals received from a host PLC.

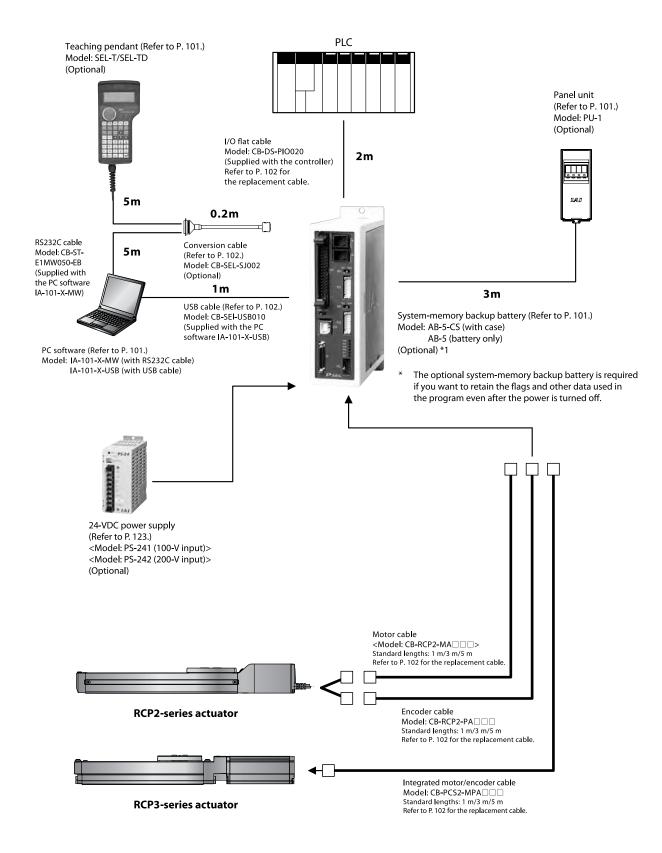
The positioner mode includes the following five input patterns to support various applications.

■Functions by Controller Type

Operation	on mode	Features
Progra	m mode	You can use Super SEL, a language that allows for complex controls using simple commands, to perform linear and smooth interpolation operations, path operation ideal for coating and other applications, arch motion and palletizing operations, and more.
	Standard mode	The basic operation mode where all you need is to specify a position number and enter a start signal. Push-motion operation, and linear interpolation operation of two axes, is also supported.
	Type switching mode	When the system handles multiple loads of the same shape but slightly different hole positions, you can issue movement commands to the same position number by changing the type number.
Product-type Switchover Mode	2-axis independent mode	When a 2-axis controller is used, the two axes can be operated independently using separate commands.
	Teaching mode	The slider (rod) can be moved using an external signal to register the stopped position as position data.
	DS-S-C1 compatible mode	If you have been using a DS-S-C1 controller, you can swap it with a PSEL controller without having to change the host programs. * Compatibility with actuators is not assured.

PSEL Controllers

System Configuration



Explanation of I/O Functions

Program Mode

Pin No.	Category	Port No.	Program Mode	Function
1A	P24		24-V input	Connect 24 V.
1B		016	Program No. 1 selection	
2A		017	Program No. 2 selection	
2B] [018	Program No. 4 selection	Select the program number of the program you want to start.
3A		019	Program No. 8 selection	Select the program number of the program you want to start. (Enter one of ports 016 to 022 by a BCD code.)
3B		020	Program No. 10 selection	Lines one of ports oro to 022 by a Deb code.,
4A		021	Program No. 20 selection	
4B		022	Program No. 40 selection	
5A		023	CPU reset	The system is reset and enters the same state achieved after the power has been reconnected.
5B		000	Start	The program selected by one of port Nos. 016 to 022 is started.
6A		001	General-purpose input	
6B		002	General-purpose input	
7A	Input	003	General-purpose input	
7B	Input	004	General-purpose input	
8A		005	General-purpose input	
8B		006	General-purpose input	
9A		007	General-purpose input	
9B		008	General-purpose input	The system waits for an external input in response to a program command.
10A		009	General-purpose input	
10B		010	General-purpose input	
11A		011	General-purpose input	
11B		012	General-purpose input	
12A		013	General-purpose input	
12B		014	General-purpose input	
13A		015	General-purpose input	
13B		300	Alarm	This signal is output when an alarm has occurred. (Contact B)
14A] [301	Ready	This signal is output when the controller has started properly and become ready to operate
14B		302	General-purpose output	
15A	Output	303	General-purpose output	
15B	J Cutput	304	General-purpose output	These signals can be turned ON/OFF freely using program commands.
16A]	305	General-purpose output	These signals can be turned on or meety using program commands.
16B	<u> </u>	306	General-purpose output	
17A		307	General-purpose output	
17B	N		OV input	Connect OV.

Positioner, Standard Mode

Pin No.	Category	Port No.	Standard Positioner Mode	Function	Wiring diagram
1A	P24		24-V input	Connect 24 V.	
1B		016	Position input 10		•••
2A		017	Position input 11	Use one of port Nos. 007 to 019 to specify the position number corresponding	
2B	Ī	018	Position input 12	to the position to move the actuator to. The value can be specified by either a BCD or binary code.	•••
3A		019	Position input 13	Deb of billary code.	
3B	Ī	020	-	-	•••
4A	[021	-	-	
4B		022	-	_	•••
5A		023	Error reset	This signal resets minor errors. (The power must be reconnected to reset major errors.)	
5B	Ī	000	Start	The actuator starts moving to the position corresponding to the selected position number.	•••
6A		001	Home return	The actuator returns home.	
6B	ĺ	002	Servo ON	The servo is turned ON/OFF.	•••
7A	[003	Push motion	The actuator performs push-motion operation.	
7B	Input	004	Pause	The actuator pauses when this signal turns OFF, and resumes the remaining operation when the signal turns ON.	•••
8A		005	Cancel	The actuator stops when this signal turns OFF, and the remaining operation is cancelled.	
8B		006	Interpolation setting	In the case of a 2-axis specification, the actuators move via linear interpolation while this signal is ON.	•••
9A		007	Position input 1		
9B		008	Position input 2		•
10A		009	Position input 3		
10B	Ī	010	Position input 4	Use one of port Nos. 007 to 019 to specify the position number corresponding to	•••
11A		011	Position input 5	the position to move the actuator to. The value can be specified by either a BCD	be specified by either a BCD
11B		012	Position input 6	or binary code.	•••
12A		013	Position input 7		
12B		014	Position input 8		•••
13A		015	Position input 9		•••
13B		300	Alarm	This signal is output when an alarm has occurred. (Contact B)	-FÖT-
14A		301	Ready	This signal is output when the controller has started properly and become ready to operate.	
14B		302	Positioning complete	This signal is output when movement to the specified position has completed.	- O
15A		303	Home return complete	This signal is output when home return has completed.	
15B	Output	304	Servo ON output	This signal is output while the servo is ON.	•5•
16A	[305	Push-motion complete	This signal is output when push-motion operation has completed.	
16B	[306	System battery error	This signal is output when the system battery voltage has dropped (to the warning level).	→
17A		307	_	-	
17B	N		OV input	Connect OV.	

PSEL Controllers

Explanation of I/O Functions

Positioner, Product-Type Switchover Mode

Pin No.	Category	Port No.	Type-switching Positioner Mode	Function	Wiring diagram
1A	P24		24-V input	Connect 24 V.	
1B		016	Position/type input 10	_	
2A		017	Position/type input 11		
2B		018	Position/type input 12	Use one of port Nos. 007 to 022 to specify the position number corresponding	
3A		019 020 021	Position/type input 13	to the position to move the actuator to, and another to specify the type number. Assignment of position numbers and type numbers are set using parameters.	
3B		020	Position/type input 14	The value can be specified by either a BCD or binary code.	
4A		021 Position/type input 15 022 Position/type input 16 023 Error reset This signal resets minor errors. (The power must be reconnected to reset minor errors)			
4B		022	Position/type input 16	_	
5A		023	Error reset	This signal resets minor errors. (The power must be reconnected to reset major errors.)	
5B		000	Start	The actuator starts moving to the position corresponding to the selected position number.	•••
6A		001	Home return	The actuator returns home.	•••
6B		002	Servo ON	The servo is turned ON/OFF.	
7A]	003	Push motion	The actuator performs push-motion operation.	—
7B	Input	004	Pause	The actuator pauses when this signal turns OFF, and resumes the remaining operation when the signal turns ON.	
8A	1	005	Cancel	The actuator stops when this signal turns OFF, and the remaining operation is cancelled.	
8B		006	Interpolation setting	In the case of a 2-axis specification, the actuators move via linear interpolation while this signal is ON.	
9A		007	Position/type input 1		
9B		008	Position/type input 2	_	
10A		009	Position/type input 3		
10B		010	Position/type input 4	Use one of port Nos. 007 to 022 to specify the position number corresponding to the position to move the actuator to, and another to specify the type number.	•••
11A		011	Position/type input 5	Assignment of position numbers and type numbers are set using parameters.	
11B		012	Position/type input 6	The value can be specified by either a BCD or binary code.	
12A		013	Position/type input 7	· · · · · · · · · · · · · · · · · · ·	
12B		014	Position/type input 8		•••
13A		015	Position/type input 9		
13B		300	Alarm	This signal is output when an alarm has occurred. (Contact B)	- ₹₹
14A		301	Ready	This signal is output when the controller has started properly and become ready to operate.	- 5
14B		302	Positioning complete	This signal is output when movement to the specified position has completed.	→ □
15A] [303	Home return complete	This signal is output when home return has completed.	
15B	Output	304	Servo ON output	This signal is output while the servo is ON.	
16A		305	Push-motion complete	This signal is output when push-motion operation has completed.	- 55•
16B		306	System battery error	This signal is output when the system battery voltage has dropped (to the warning level).	→
17A		307	-		──
17B	N		OV input	Connect OV.	

Positioner, 2-axes Independent Mode

in No.	Category	Port No.	Type-switching Positioner Mode	Function	Wiring diagram
1A	P24		24-V input	Connect 24 V.	
1B		016	Position input 7		—
2A] [017	Position input 8	_	
2B] [018	Position input 9	Use any of port Nos. 010 to 022 to specify the position number corresponding	—
3A		019	Position input 10	to the position to move the actuator to. Assignment of position numbers for axes 1 and 2 are set using parameters.	
3B	1 [020	Position input 11	The value can be specified by either a BCD or binary code.	—
4A] [021	Position input 12	The value can be specified by citater a beb of binary code.	
4B	1 [022	Position input 13	<u> </u>	
5A	7 [023	Error reset	This signal resets minor errors. (The power must be reconnected to reset major errors.)	
5B		000	Start 1	Axis 1 starts moving to the selected position number.	-
6A] [001	Home return 1	Axis 1 returns home.	
6B	1 [002	Servo ON 1	The servo of axis 1 is turned ON/OFF.	—
7A	1. [003	Pause 1	Axis 1 pauses when this signal turns OFF, and resumes the remaining operation when the signal turns ON.	
7B	Input	004	Cancel 1	Movement of axis 1 is cancelled.	—
8A	1 [005	Start 2	Axis 2 starts moving to the selected position number.	
8B	1 [006	Home return 2	Axis 2 returns home.	
9A	1 [007	Servo ON 2	The servo of axis 2 is turned ON/OFF.	
9B	1	008	Pause 2	Axis 2 pauses when this signal turns OFF, and resumes the remaining operation when the signal turns ON.	—
10A	1 1	009	Cancel 2	Movement of axis 2 is cancelled.	
10B	1	010	Position input 1		•••
11A	1 [011	Position input 2	Use any of port Nos. 010 to 022 to specify the position number corresponding	
11B	1 1	012	Position input 3	to the position to move the actuator to.	•••
12A	1	013	Position input 4	Assignment of position numbers for axes 1 and 2 are set using parameters.	
12B	1	014	Position input 5	The value can be specified by either a BCD or binary code.	••
13A	1 1	015	Position input 6	<u> </u>	-
13B		300	Alarm	This signal is output when an alarm has occurred. (Contact B)	→ 5
14A	1 1	301	Ready	This signal is output when the controller has started properly and become ready to operate.	-
14B	1 1	302	Positioning complete 1	This signal is output when movement of axis 1 to the specified position has completed.	→ □
15A	1. 1	303	Home return complete 1	This signal is output when home return of axis 1 has completed.	
15B	Output	304	Servo ON output 1	This signal is output while the servo of axis 1 is ON.	- F0→
16A	1 1	305	Positioning complete 2	This signal is output when movement of axis 2 to the specified position has completed.	
16B	1 1	306	Home return complete 2	This signal is output when home return of axis 2 has completed.	→ 55 →
17A	1	307	Servo ON output 2	This signal is output while the servo of axis 2 is ON.	
17B	l N		OV input	Connect OV.	

Explanation of I/O Functions

Positioner, Teach Mode

Pin No.	Category	Port No.	Type-switching Positioner Mode	Function
1A	P24		24-V input	Connect 24 V.
1B		016	Axis 1 JOG -	Axis 1 moves in the negative direction while this signal is input.
2A	1	017	Axis 2 JOG +	Axis 2 moves in the positive direction while this signal is input.
2B		018	Axis 2 JOG -	Axis 2 moves in the negative direction while this signal is input.
3A	1	019	Inching specification (0.01 mm)	
3B		020	Inching specification (0.1 mm)	Specify the travel over which to move the actuator by inching.
4A	1	021	Inching specification (0.5 mm)	(The travel is the sum of values specified by port Nos. 019 to 022.)
4B		022	Inching specification (1 mm)	
5A	1	023	Error reset	This signal resets minor errors. (The power must be reconnected to reset major errors.)
5B	1	000	Start	The actuator starts moving to the position corresponding to the selected position number.
6A	1	001	Servo ON	The servo is turned ON/OFF.
6B	1	002	Pause	The actuator pauses when this signal turns OFF, and resumes the remaining operation when the signal turns ON.
7A	1. 1	003	Position input 1	, , , , , , , , , , , , , , , , , , ,
7B	Input	004	Position input 2	
8A	1	005	Position input 3	
8B		006	Position input 4	
9A	1	007	Position input 5	Use one of port Nos. 003 to 013 to specify the position number corresponding
9B	1	008	Position input 6	to the position to move the actuator to, and another to specify the position number under which to input the current position.
10A	1	009	Position input 7	If port No. 014 for teaching mode specification is ON, the current value is written
10B		010	Position input 8	to the specified position number when port No. 000 for start signal turns ON.
11A	1	011	Position input 9	
11B	1	012	Position input 10	
12A	1	013	Position input 11	
12B		014	Teaching mode specification	
13A	1	015	Axis 1 JOG +	Axis 1 moves in the positive direction while this signal is input.
13B		300	Alarm	This signal is output when an alarm has occurred. (Contact B)
14A	1	301	Ready	This signal is output when the controller has started properly and become ready to operate.
14B	1	302	Positioning complete	This signal is output when movement to the specified position has completed.
15A	1 .	303	Home return complete	This signal is output when home return has completed.
15B	Output	304	Servo ON output	This signal is output while the servo is ON.
16A	1	305	=	_
16B	1 1	306	System battery error	This signal is output when the system battery voltage has dropped (to the warning level).
17A	1	307		_
17B	N		OV input	Connect OV.

Positioner, DS-S-C1 Compatible Mode

in No.	Category	Port No.	Standard Positioner Mode	Function	Wiring diagram
1A	P24		24-V input	Connect 24 V.	
1B		016	Position No. 1000	(Same with port Nos. 004 to 015.)	
2A] [017	-	-	
2B		018	-	-	
3A		019	-	_	—
3B	1 [020	-	-	
4A] [021	-	_	
4B	1 [022	-	-	—
5A		023	CPU reset	The system is reset and enters the same state achieved after the power has been reconnected.	
5B		000	Start	The actuator starts moving to the position corresponding to the selected position number.	
6A		001	Hold (pause)	The actuator pauses when this signal turns ON, and resumes the remaining operation when the signal turns OFF.	
6B		002	Cancel	The actuator stops when this signal turns ON, and the remaining operation is cancelled.	—
7A	Input	003	Interpolation setting	In the case of a 2-axis specification, the actuators move via linear interpolation while this signal is ON.	
7B	Input	004	Position No. 1		—
8A		005	Position No. 2	_	
8B		006	Position No. 4	Use one of port Nos. 004 to 016 to specify the position number corresponding to the position to move the actuator to. The value is specified by a BCD code.	—
9A] [007	Position No. 8		
9B		800	Position No. 10		—
10A		009	Position No. 20		
10B		010	Position No. 40		—
11A		011	Position No. 80		
11B		012	Position No. 100		—
12A		013	Position No. 200		
12B	. l	014	Position No. 400		•
13A		015	Position No. 800		
13B	J .	300	Alarm	This signal is output when an alarm has occurred. (Contact A)	→
14A]]	301	Ready	This signal is output when the controller has started properly and become ready to operate.	
14B		302	Positioning complete	This signal is output when movement to the specified position has completed.	
15A	Output	303	-	-	
15B] Output	304	-	-	- D
16A]	305	-		
16B	J .	306	System battery error	This signal is output when the system battery voltage has dropped (to the warning level).	- D
17A		307	-	-	
17B	N		OV input	Connect OV.	

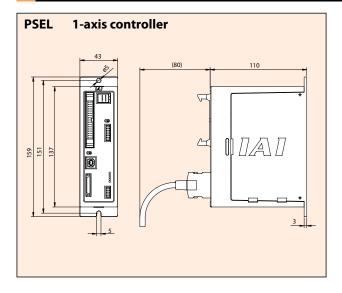
PSEL Controllers

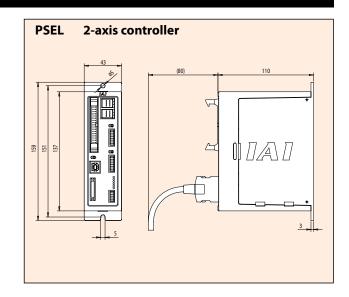
Specification Table

	ltem	Specification
	Connected actuator	RCP2-series actuator (Note 1)
S I	Input voltage	24 VDC ±10%
itio	Power-supply capacity	Max. 5.5 A
Base specifications	Dielectric strength	500 VDC, 10 MΩ or more
bec	Withstand voltage	500 VAC, 1 minute
se s	Rush current	Max. 30 A
Ba	Vibration resistance	XYZ directions: 10 to 57 Hz: (Single amplitude) 0.035 mm (continuous), 0.0 75 mm (intermittent) 58 to 150 Hz: 4.9 m/sec2 (continuous), 9.8 m/sec2 (intermittent)
	Number of controlled axes	1/2
suc	Maximum total output of connected axes	-
Control specifications	Position detection method	Incremental encoder
Giji [Speed setting	1 mm/sec ~ (The maximum limit varies depending on the actuator.)
Spe	Acceleration setting	0.01 G ~ (The maximum limit varies depending on the actuator.)
	Operation method	Program operation/positioner operation (switchable)
	Program language	Super SEL
	Number of programs	64
ڇ	Number of program steps	2,000
Program	Number of multi-tasking programs	8
F.	Number of positioning points	1500
	Data storage device	Flash ROM (An optional system-memory backup battery can be added.)
	Data input method	Teaching pendant or PC software
	Number of I/O points	24 input points/8 output points (NPN/PNP selectable)
<u>io</u>	I/O power supply	24 VDC ±10%, externally supplied
Communication related	PIO cable	CB-DS-PIO (supplied with the controller)
munica related	Serial communication function	RS232C (half-pitch connector)/USB connector
E 2	Field network cable	(To be supported in the future)
Ō	Motor cable	CB-RCP2-MA (max. 20 m)
	Encoder cable	CB-RCP2-PA (max. 20 m)
General specifications	Protective functions	Motor/driver temperature check, encoder open check, soft limit overtravel, system error, battery error, etc.
iţica	Surrounding air temperature/humidity	0 to 40°C, 10 to 95% (non-condensing)
bec	Surrounding ambience	Free from corrosive gases or significant dust.
al sl	Protection degree	IP20
ner	Weight	Approx. 450 g
Ge	External dimensions	43 mm (W) x 159 mm (H) x 110 mm (D)

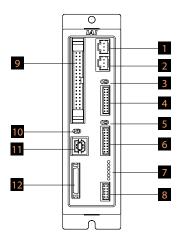
 $The \ high-thrust\ type\ (RA10C), high-speed\ type\ (HS8C/HS8R)\ and\ waterproof\ type\ (RCP2W-SA16)\ are\ not\ operated.$

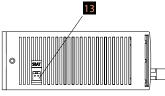
External Dimensions

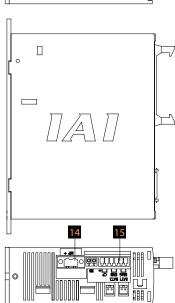




Name of Each part







1 Axis 1 motor connector

Connect the motor cable for actuator axis 1 here.

2 Axis 2 motor connector

Connect the motor cable for actuator axis 2 here.

3 Axis 1 brake switch

This switch is used to release the axis brake. When the switch is set to the left (RLS) position, the brake is forcibly released. When the switch is set to the right (NOM) position, the brake is controlled automatically by the controller.

4 Axis 1 encoder connector

Connect the encoder cable for actuator axis 1 here.

5 Axis 2 brake switch

This switch is used to release the axis brake. When the switch is set to the left (RLS) position, the brake is forcibly released. When the switch is set to the right (NOM) position, the brake is controlled automatically by the controller.

6 Axis 2 encoder connector

Connect the encoder cable for actuator axis 2 here.

7 Status indicator LEDs

These LEDs indicate the operating status of the controller. What is indicated by each LED is explained below:

PWR: The power is currently input to the controller.

RDY: The controller is ready to perform program operation.

ALM: The controller is abnormal.

EMG: An emergency stop has been actuated and the drive source is being cut off.

SV1: The servo of actuator axis 1 is turned ON.

SV2: The servo of actuator axis 2 is turned ON.

8 Panel unit connector

This connector is used to connect the panel unit (optional) for displaying the controller status and error numbers.

9 IO connector

A connector for interface IOs.

If a DIO (24IN/8OUT) interface is used, this connector accepts a 34-pin flat cable connector.

The IO power is also supplied to the controller through this connector (pins 1 and 34).

10 Mode switch

This switch is used to indicate the operation mode of the controller.

The left position indicates the MANU (manual operation) mode, while the right position indicates the AUTO (auto operation) mode. Teaching operation can only be performed in the MANU mode, and operation using external IOs cannot be performed in the MANU mode.

11 USB connector

This connector is used to make USB connection with a PC. When the USB connector is in use, the TP connector cannot be used because communication through the TP connector is cut off.

12 Teaching pendant connector

This half-pitch, IO26-pin connector is used to connect a teaching pendant when the operation mode is MANU. You need a dedicated conversion cable to connect to a conventional D-sub, 25-pin connector.

13 System-memory backup battery connector

This connector is used to connect the battery needed to retain the various data stored in the built-in SRAM of the controller even after the power is cut off. The systemmemory backup battery is installed on the exterior of the unit. This battery is not a standard accessory (available as an option).

14 Motor-power input connector

This connector is used to input the motor power and consists of a 2-pin, 2-piece connector by Phoenix Contact.

15 Control-power/system input connector

This connector is used to connect the controller power input, emergency stop switch and enable switch, and consists of a 6-pin, 2-piece connector by Phoenix Contact.

PSEL Controllers

Options

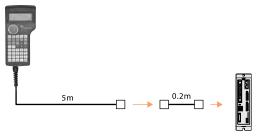
■Teaching Pendant

Features A teaching device offering functions for program/ position input, test operation, monitoring, and more.

■ Model/Price

Model	Description
SEL-T-J	Standard type with connector conversion cable
SEL-TD-J	Deadman switch type with connector conversion cable

■ Configuration



Conversion cable: CB-SEL-SJ002

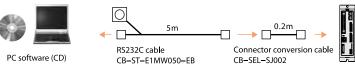
Specification

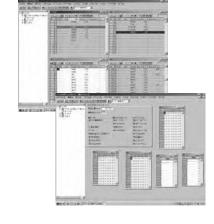
ltem	SEL-T-J	SEL-TD-J	
3-position enable switch	Not equipped	Equipped	
ANSI/UL standard	Not compliant	Compliant	
CE mark	Compliant		
Display	20 characters x 4 lines		
Surrounding air temperature/humidity	0–40°C 10–90%RH	(non-condensing)	
Protection structure	IP54		
Weight	Approx. 0.4 kg (excluding cables)		

■ PC Software (Windows only)

Features A software program that assists the initial startup of your system, offering functions for program/position input, test operation, monitoring, and more. The enhanced debugging functions help reduce the startup time.

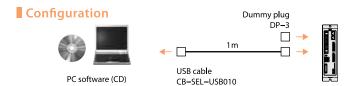
Configuration





The PSEL controller only supports version

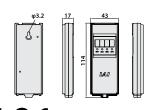
■ Model IA-101-X-USB (with USB cable)



Panel Unit

Features A display for checking controller error codes and the program number of the current program.

■ Model PU-1 (cable length: 3 m)



System memory backup battery

Features This battery is needed when global flags, etc., are used in the program and you want the data to be retained even after the power is turned off.

Model AB-5-CS (with case)
AB-5 (battery)



Dummy plug

Note

7.0.0.0 or later.

Features This plug is connected to the teaching pendant to cut off the enable circuit when connecting the PSEL controller to a PC via a USB cable.

(This plug is supplied with the PC software IA-101-X-USB.)

■ Model DP-3





Options

USB cable

Features This cable is used to connect a controller with USB port to a PC.

To connect a controller without USB port (XSEL) to a PC, connect the controller's RS232C cable to a USB cable via a USB conversion adapter and connect the USB cable to the USB port on the

(Refer to the PC software IA-101-X-USBMW.)

CB-SEL-USB010 (cable length: 1 m) Model



Connector conversion cable

Features This conversion cable is used to connect the D-sub, 25-pin connector for teaching pendant or PC to the teaching connector (half-pitch) on

the PSEL controller.

CB-SEL-SJ002 (cable length: 0.2 m)



(20)

Replacement Parts

CN3

If you must order a replacement cable, etc., after the initial purchase of your product, specify the correct model by referring to the information below.

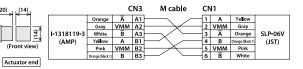
Motor Cable

(Front view) Controller end

Item CB-RCP2-MA

*The standard motor cable is a robot cable

* Indicates the cable length (L). A desired length up to 20 m can be specified. Example) 080 = 8 m

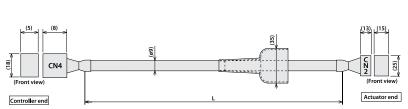


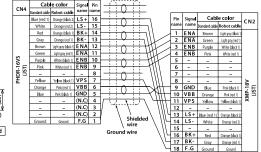
Encoder Cable/Robot Encoder Cable

Item CB-RCP2-PB ... /CB-RCP2-PB ...

* The standard encoder cable is a normal cable. -RB A robot cable can be specified as an option.

* Indicates the cable length (L). A desired length up to 20 m can be specified. Example) 080 = 8 m





Integrated Motor/Encoder Cable for RCP3

Item CB-PCS-MPA

* \square indicates the cable length (L). A desired length up to 10 m can be specified. Example) 080 = 8 m

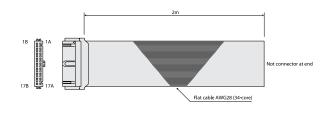
L	
(8) (5) (20) (Front view) (8) Controller end	(18) (Front view) Actuator end

Signal	Pin No.	(Wire color)	Pin No.	Signal
A	B1	Black	A1	A
VMM	A2	White	B1	VMM
/A	A1	Red —	A2	/A
В	B3	Green	B2	В
VMM	B2	Yellow —	A3	MMV
/B	A3	Brown —	B3	/B
		\(\sigma\)	A4	NC
		. / \	B4	NC
BK+	14	Pink (Red.)	A5	BK+
BK-	13	Pink (Blue.)	B5	BK-
LS+	16	White (Red.)	A6	LS+
LS-	15	White (Blue.)	B6	LS-
A+	12	Orange (Red.)	A7	A+
A-	11	Orange (Blue.)	B7	Α-
B+	10	Gray (Red.)	A8	B+
B-	9	Gray (Blue.)	B8	B-
NC	8		A9	NC
VPS	7	Orange (Blue. continuous)	B9	VPS
VCC	6	Gray (Red. continuous)	A10	VCC
GND	5	Gray (Blue, continuous)	B10	GND
NC	4	1 1 1	A11	NC
FG	-	Shield -	B11	FG

I/O Flat Cable

Item CB-DS-PIO

* Indicates the cable length (L). A desired length up to 10 m can be specified. Example) 080 = 8 m



ı	No.	Color	Wire	No.	Color	Wire
L	1A	Brown 1		9B	Gray 2	
	1B	Red 1		10A	White 2	
	2A	Orange 1		10B	Black 2	
	2B	Yellow 1		11A	Brown-3	
	ЗА	Green 1		11B	Red 3	
Γ	3B	Blue 1		12A	Orange 3	
Ι	4A	Purple 1		12B	Yellow 3	
Ι	4B	Gray 1	Flat	13A	Green 3	Flat
	5A	White 1	cable,	13B	Blue 3	cable,
	5B	Black 1	pressure-	14A	Purple 3	pressure-
	6A	Brown-2	welded	14B	Gray 3	welded
	6B	Red 2		15A	White 3	
	7A	Orange 2		15B	Black 3	
Γ	7B	Yellow 2		16A	Brown-4	
Γ	8A	Green 2		16B	Red 4	
Ι	8B	Blue 2		17A	Orange 4	
	9A	Purple 2		17B	Yellow 4	



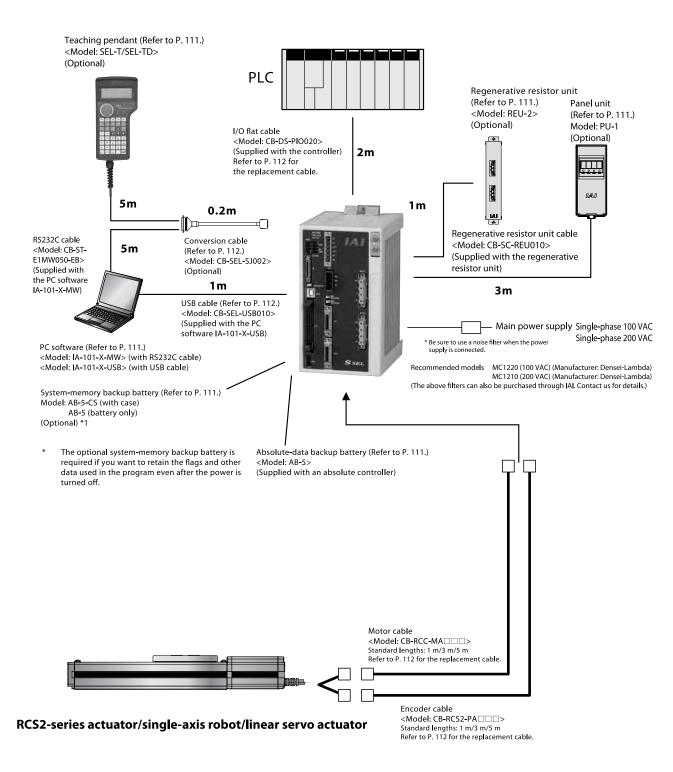
Model List/Pricing

A program controller capable of operating RCS2-series actuators. Various controls can be performed with a single unit.

Туре	С	
Name	Program mode	Positioner mode
Exterior view		1 Section of the sect
Description	This controller can operate actuators and communicate with external devices without requiring any additional device. If two axes are operated, arc interpolation, path operation and synchronized operation can be performed.	Up to 20,000 positioning points are supported. Push-motion operation and teaching operation are also possible.
Number of positions	20,000	

Model * Details of axis 2 are not required if the controller is of 1-axis specification. — C (Details of axis 1) (Details of axis 2) Number of connected axes I/O cable Power-supply length voltage I/O type **Encoder type** Options **Encoder type Options Motor type** Motor type Sing**l**e-phase 100 VAC Brake Incremental Standard type Sing**l**e-phase 200 VAC Absolute Creep sensor Home sensor/LS Master axis specification Brake No cable Creep sensor 2m 1-axis specification Incremental Home sensor/LS 3m 2-axes specification Absolute Slave axis specification 5m 200-watt servo motor 200-watt servo motor 20-watt servo motor 20-watt servo motor PIO NPN specification (standard) 300-watt servo motor 300-watt servo motor PIO PNP specification 30-watt servo motor for RCS2 30-watt servo motor for RCS2 30-watt servo motor for RS 400-watt servo motor 30-watt servo motor for RS 400-watt servo motor DeviceNet Connection specification 60-watt servo motor 600-watt servo motor 60-watt servo motor 600-watt servo motor CC-Link Connection specification 100-watt servo motor 750-watt servo motor 100-watt servo motor 750-watt servo motor ProfiBus Connection specification 150-watt servo motor 150-watt servo motor

System Configuration





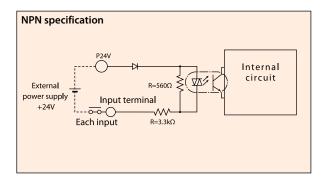
I/O Specifications

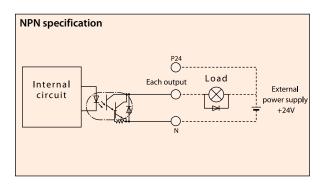
Input External input specifications

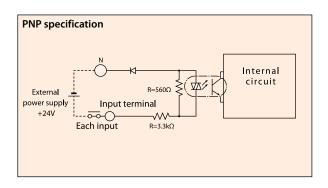
Item	Specification
Input voltage	DC24V ±10%
Input current	7 mA per circuit
ON/OFFlta.s.a.	ON voltage (min.) NPN: DC16V/PNP: DC8V
ON/OFF voltages	OFF voltage (max.) NPN: DC5V/PNP: DC19V
Insulation method	Photo-coupler

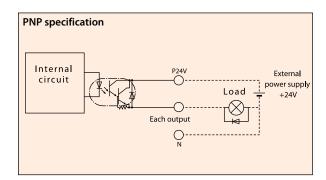
Output External output specifications

Item	Specification
Load voltage	DC24V
Maximum load current	100 mA per point, total 400 mA for 8 points
Leak current (max.)	Max. 0.1 mA per point
Insulation method	Photo-coupler









Explanation of I/O Functions

The SSEL controller can be operated in the "Program Mode" where a program is entered to operate the actuator or "Positioner Mode" where the actuator is moved to positions specified by signals received from a host PLC.

The positioner mode includes the following five input patterns to su pport various applications.

■Functions by Controller Type

Operation mode		Features		
Program mode		You can use Super SEL, a language that allows for complex controls using simple commands, to perform linear and smoot interpolation operations, path operation ideal for coating and other applications, arch motion and palletizing operations, a more.		
	Standard mode	The basic operation mode where all you need is to specify a position number and enter a start signal. Push-motion operation, and linear interpolation operation of two axes, is also supported.		
	Type switching mode	When the system handles multiple loads of the same shape but slightly different hole positions, you can issue movement commands to the same position number by changing the type number.		
Product-Type Switchover Mode	2-axis independent mode	When a 2-axis controller is used, the two axes can be operated independently using separate commands.		
	Teaching mode	The slider (rod) can be moved using an external signal to register the stopped position as position data.		
	DS-S-C1 compatible mode	If you have been using a DS-S-C1 controller, you can swap it with a PSEL controller without having to change the host programs. * Compatibility with actuators is not assured.		

Explanation of I/O Functions

Program Mode

Pin No.	Category	Port No.	Program Mode	Function	Wiring diagram
1A	P24		24-V input	Connect 24 V.	
1B		016	Program No. 1 selection		
2A	1 1	017	Program No. 2 selection	Select the program number of the program you want to start. (Enter one of ports 016 to 022 by a BCD code.)	
2B	1 [018 019	Program No. 4 selection		
3A	1 1		Program No. 8 selection		
3B	1	020	Program No. 10 selection		
4A	1 [021	Program No. 20 selection		
4B	1	022	Program No. 40 selection		
5A	1 1	023	CPU reset	The system is reset and enters the same state achieved after the power has been reconnected.	
5B]	000	Start	The program selected by one of port Nos. 016 to 022 is started.	
6A] [001	General-purpose input		-
6B	1	002	General-purpose input		-
7A	1 [003	General-purpose input	The system waits for an external input in response to a program command.	
7B	Input	004 005 006	General-purpose input		—••
8A] [General-purpose input		
8B] [General-purpose input		
9A		007	General-purpose input		
9B		800	General-purpose input		
10A] [009	General-purpose input		
10B] [011 Ger	General-purpose input		
11A] [General-purpose input		
11B] [General-purpose input		
12A] [013	General-purpose input		
12B] [014	General-purpose input		
13A] [015	General-purpose input	-	~
13B		300	Alarm	This signal is output when an alarm has occurred. (Contact B)	-FOT-
14A] [301	Ready	This signal is output when the controller has started properly and become ready to operate.	
14B] [302	General-purpose output		─ ₹₹
15A	Output	303	General-purpose output	There is really see he to read ON/OFF feeth units and read on the second	
15B		304	General-purpose output		
16A] [305	General-purpose output	These signals can be turned ON/OFF freely using program commands.	
16B		306	General-purpose output		
17A		307	General-purpose output		 55 -
17B	N		OV input	Connect OV.	

Positioner, Standard Mode

Pin No.	Category	Port No.	Standard Positioner Mode	Function	Wiring diagrar
1A	P24		24-V input	Connect 24 V.	
1B		016	Position input 10		
2A		017	Position input 11	Use one of port Nos. 007 to 019 to specify the position number corresponding to the position to move the actuator to. The value can be specified by either a	•••
2B		018	Position input 12	BCD or binary code.	
3A		019	Position input 13	See 51 511M.) COM.	
3B		020	Position input 14	-	
4A		021	Position input 15	-	
4B	Ī	022	Position input 16	-	
5A	Ī	023	Error reset	This signal resets minor errors. (The power must be reconnected to reset major errors.)	
5B	Ī	000	Start	The actuator starts moving to the position corresponding to the selected position number.	
6A	Ī	001	Home return	The actuator returns home.	-
6B	Ī	002	Servo ON	The servo is turned ON/OFF.	
7A	[003	Push motion	The actuator performs push-motion operation.	
7B	Input	004	Pause	The actuator pauses when this signal turns OFF, and resumes the remaining operation when the signal turns ON.	
8A	Ī	005	Cancel	The actuator stops when this signal turns OFF, and the remaining operation is cancelled.	
8B	Ī	006	Interpolation setting	In the case of a 2-axis specification, the actuators move via linear interpolation while this signal is ON.	
9A	Ī	007	Position input 1		-
9B	Ī	008	Position input 2		
10A	Ī	009	Position input 3		
10B	Ī	010	Position input 4	Use one of port Nos. 007 to 019 to specify the position number corresponding to	
11A	Ī	011	Position input 5	the position to move the actuator to. The value can be specified by either a BCD	
11B	Ī	012	Position input 6	or binary code.	
12A	Ī	013	Position input 7		
12B	İ	014	Position input 8		
13A	Ī	015	Position input 9		•••
13B		300	Alarm	This signal is output when an alarm has occurred. (Contact B)	→ □
14A	Ī	301	Ready	This signal is output when the controller has started properly and become ready to operate.	- 55•
14B	Ī	302	Positioning complete	This signal is output when movement to the specified position has completed.	→
15A	[303	Home return complete	This signal is output when home return has completed.	─
15B	Output	304	Servo ON output	This signal is output while the servo is ON.	
16A	Ī	305	Push-motion complete	This signal is output when push-motion operation has completed.	•5
16B	Ī	306	System battery error	This signal is output when the system battery voltage has dropped (to the warning level).	→ 0
17A	Ī	307	Absolute battery error	This signal is output when the absolute battery voltage has dropped (to the warning level).	
17B	N		OV input	Connect OV.	

SSEL Controllers

Explanation of I/O Functions

Positioner, Product-Type Switchover Mode

Pin No.	Category	Port No.	Type-switching Positioner Mode	Function	
1A	P24		24-V input	Connect 24 V.	
1B		016	Position/type input 10		
2A		017	Position/type input 11		
2B		018	Position/type input 12	Use one of port Nos. 007 to 022 to specify the position number corresponding	
3A] [019	Position/type input 13	to the position to move the actuator to, and another to specify the type number. Assignment of position numbers and type numbers are set using parameters. The value can be specified by either a BCD or binary code.	
3B	1 [020	Position/type input 14		
4A] [021	Position/type input 15		
4B] [022	Position/type input 16		
5A] [023	Error reset	This signal resets minor errors. (The power must be reconnected to reset major errors.)	
5B	1 [000	Start	The actuator starts moving to the position corresponding to the selected position number.	
6A	1 [001	Home return	The actuator returns home.	
6B	1 [002	Servo ON	The servo is turned ON/OFF.	
7A	1[003	Push motion	The actuator performs push-motion operation.	
7B	Input	004	Pause	The actuator pauses when this signal turns OFF, and resumes the remaining operation when the signal turns ON.	
8A] [005	Cancel	The actuator stops when this signal turns OFF, and the remaining operation is cancelled.	
8B	1 [006	Interpolation setting	In the case of a 2-axis specification, the actuators move via linear interpolation while this signal is ON.	
9A	1 1	007	Position/type input 1		
9B	1 [008	Position/type input 2		
10A	1 [009	Position/type input 3		
10B	1 1	010	Position/type input 4	Use one of port Nos. 007 to 022 to specify the position number corresponding	
11A	1 [011	Position/type input 5	to the position to move the actuator to, and another to specify the type number. Assignment of position numbers and type numbers are set using parameters.	
11B	1 1	012	Position/type input 6	The value can be specified by either a BCD or binary code.	
12A	1 1	013	Position/type input 7		
12B	1 1	014	Position/type input 8		
13A	1 1	015	Position/type input 9		
13B		300	Alarm	This signal is output when an alarm has occurred. (Contact B)	
14A	1 1	301	Ready	This signal is output when the controller has started properly and become ready to operate.	
14B	1 1	302	Positioning complete	This signal is output when movement to the specified position has completed.	
15A	1 . 1	303	Home return complete	This signal is output when home return has completed.	
15B	Output	304	Servo ON output	This signal is output while the servo is ON.	
16A	1 1	305	Push-motion complete	This signal is output when push-motion operation has completed.	
16B	1 1	306	System battery error	This signal is output when the system battery voltage has dropped (to the warning level).	
17A	1 1	307	Absolute battery error	This signal is output when the absolute battery voltage has dropped (to the warning level).	
17B	N		OV input	Connect OV.	

Positioner, 2-axes Independent Mode

in No.	Category	Port No.	Type-switching Positioner Mode	Function	Wiring diagram
1A	P24		24-V input	Connect 24 V.	
1B		016	Position input 7		—
2A] [017	Position input 8		
2B] [018	Position input 9	Use any of port Nos. 010 to 022 to specify the position number corresponding	—
3A		019	Position input 10	to the position to move the actuator to. Assignment of position numbers for axes 1 and 2 are set using parameters.	
3B	1 [020	Position input 11	The value can be specified by either a BCD or binary code.	
4A] [021	Position input 12	The value can be specified by citater a beb of binary code.	
4B	1 [022	Position input 13	_	
5A	7 [023	Error reset	This signal resets minor errors. (The power must be reconnected to reset major errors.)	
5B		000	Start 1	Axis 1 starts moving to the selected position number.	-
6A] [001	Home return 1	Axis 1 returns home.	
6B	1	002	Servo ON 1	The servo of axis 1 is turned ON/OFF.	
7A	1	003	Pause 1	Axis 1 pauses when this signal turns OFF, and resumes the remaining operation when the signal turns ON.	
7B	Input	004	Cancel 1	Movement of axis 1 is cancelled.	
8A	1 [005	Start 2	Axis 2 starts moving to the selected position number.	
8B	1 [006	Home return 2	Axis 2 returns home.	
9A	1 [007	Servo ON 2	The servo of axis 2 is turned ON/OFF.	
9B	1 [008	Pause 2	Axis 2 pauses when this signal turns OFF, and resumes the remaining operation when the signal turns ON.	—
10A	1 [009	Cancel 2	Movement of axis 2 is cancelled.	
10B	1 [010	Position input 1		
11A	1 [011	Position input 2	Use any of port Nos. 010 to 022 to specify the position number corresponding	
11B	1 [012	Position input 3	to the position to move the actuator to.	—
12A	7 i	013	Position input 4	Assignment of position numbers for axes 1 and 2 are set using parameters.	
12B	1	014	Position input 5	The value can be specified by either a BCD or binary code.	•••
13A	1 1	015	Position input 6		
13B		300	Alarm	This signal is output when an alarm has occurred. (Contact B)	→
14A	1 1	301	Ready	This signal is output when the controller has started properly and become ready to operate.	
14B	1 1	302	Positioning complete 1	This signal is output when movement of axis 1 to the specified position has completed.	→ □
15A	1. 1	303	Home return complete 1	This signal is output when home return of axis 1 has completed.	
15B	Output	304	Servo ON output 1	This signal is output while the servo of axis 1 is ON.	→ 5
16A	1	305	Positioning complete 2	This signal is output when movement of axis 2 to the specified position has completed.	
16B	1 1	306	Home return complete 2	This signal is output when home return of axis 2 has completed.	→ 55 →
17A	1	307	Servo ON output 2	This signal is output while the servo of axis 2 is ON.	
17B	N		OV input	Connect OV.	

Explanation of I/O Functions

Positioner, Teaching Mode

Pin No.	Category	Port No.	Type-switching Positioner Mode	Function	Wiring diagram
1A	P24		24-V input	Connect 24 V.	
1B		016	Axis 1 JOG -	Axis 1 moves in the negative direction while this signal is input.	
2A] [017	Axis 2 JOG +	Axis 2 moves in the positive direction while this signal is input.	
2B] [018	Axis 2 JOG -	Axis 2 moves in the negative direction while this signal is input.	
3A] [019	Inching specification (0.01 mm)		
3B		020	Inching specification (0.1 mm)	Specify the travel over which to move the actuator by inching.	
4A		021	Inching specification (0.5 mm)	(The travel is the sum of values specified by port Nos. 019 to 022.)	
4B		022	Inching specification (1 mm)		
5A		023	Error reset	This signal resets minor errors. (The power must be reconnected to reset major errors.)	
5B		000	Start	The actuator starts moving to the position corresponding to the selected position number.	
6A] [001	Servo ON	The servo is turned ON/OFF.	
6B		002	Pause	The actuator pauses when this signal turns OFF, and resumes the remaining operation when the signal turns ON.	
7A	Input	003	Position input 1		
7B	Input	004	Position input 2		
8A		005	Position input 3		
8B		006	Position input 4		
9A] [007	Position input 5	Use one of port Nos. 003 to 013 to specify the position number corresponding to the position to move the actuator to, and another to specify the position	
9B		800	Position input 6	number under which to input the current position.	
10A] [009	Position input 7	If port No. 14 for teaching mode specification is ON, the current value is written	
10B] [010	Position input 8	to the specified position number when port No. 000 for start signal turns ON.	
11A] [011	Position input 9		
11B	1 [012	Position input 10	-	
12A] [013	Position input 11		
12B		014	Teaching mode specification		
13A		015	Axis 1 JOG +	Axis 1 moves in the positive direction while this signal is input.	
13B		300	Alarm	This signal is output when an alarm has occurred. (Contact B)	- CO-
14A		301	Ready	This signal is output when the controller has started properly and become ready to operate.	
14B		302	Positioning complete	This signal is output when movement to the specified position has completed.	→ \$\$
15A	Output	303	Home return complete	This signal is output when home return has completed.	
15B	Juiput	304	Servo ON output	This signal is output while the servo is ON.	 ₹\$
16A] [305	=	-	-
16B] [306	System battery error	This signal is output when the system battery voltage has dropped (to the warning level).	- ₹0 -
17A		307	Absolute battery error	This signal is output when the absolute battery voltage has dropped (to the warning level).	
17B	N		OV input	Connect OV.	

Positioner, DS-S-C1 Compatible Mode

Pin No.	Category	Port No.	Standard Positioner Mode	Function	Wiring diagrar
1A	P24		24-V input	Connect 24 V.	
1B		016	Position No. 1000	(Same with port Nos. 004 to 015.)	—
2A		017	Position No. 2000	-	
2B	Ī	018	Position No. 4000	_	
3A		019	Position No. 8000	-	
3B		020	Position No. 10000	-	—
4A		021	Position No. 20000	_	
4B		022	NC (*1)	-	
5A		023	CPU reset	The system is reset and enters the same state achieved after the power has been reconnected.	
5B		000	Start	The actuator starts moving to the position corresponding to the selected position number.	
6A		001	Hold (pause)	The actuator pauses when this signal turns ON, and resumes the remaining operation when the signal turns OFF.	-
6B		002	Cancel	The actuator stops when this signal turns ON, and the remaining operation is cancelled.	— •
7A		003	Interpolation setting	In the case of a 2-axis specification, the actuators move via linear interpolation while this signal is ON.	
7B	Input	004	Position No. 1		—
8A		005	Position No. 2	_	•••
8B		006	Position No. 4	_	
9A		007	Position No. 8		•••
9B		008	Position No. 10	Use one of port Nos. 004 to 016 to specify the position number corresponding	
10A		009	Position No. 20	to the position to move the actuator to.	
10B		010	Position No. 40	The value is specified by a BCD code.	—
11A		011	Position No. 80	_	•••
11B		012	Position No. 100	_	
12A		013	Position No. 200		—
12B		014	Position No. 400		
13A		015	Position No. 800		
13B		300	Alarm	This signal is output when an alarm has occurred. (Contact A)	→ ♥
14A		301	Ready	This signal is output when the controller has started properly and become ready to operate.	
14B		302	Positioning complete	This signal is output when movement to the specified position has completed.	→ □
15A	Output	303	_	_	
15B	Juipui	304	-	-	-FD
16A	l [305	_		•5•
16B		306	System battery error	This signal is output when the system battery voltage has dropped (to the warning level).	-55-
17A		307	Absolute battery error	This signal is output when the absolute battery voltage has dropped (to the warning level).	

 $(\mbox{\ensuremath{\$^{4}}}\mbox{\ensuremath{\mathsf{1}}})$ This input must be turned OFF. Make sure the signal is not connected.

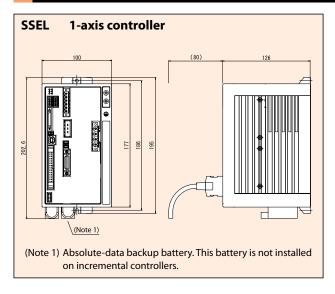
SSEL Controllers

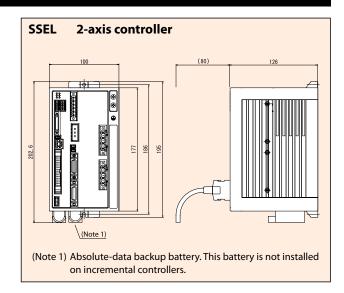
Specification Table

	ltem	Specification			
	Connected actuator	RCS2-series actuator/single-axis robot/linear servo actuator			
SL	Input power supply	Single-phase 100 VAC ±10% Single-phase 200 VAC ±10%			
itio	Power-supply capacity	Max. 1660 VA (400 W, 2-axis operation)			
Ę	Dielectric strength	500 VDC, 10 MΩ or more			
Base specifications	Withstand voltage	500 VAC, 1 minute			
e s	Rush current	Max. 30 A			
Bas	Vibration resistance	XYZ directions: 10 to 57 Hz: (Single amplitude) 0.035 mm (continuous), 0.0 75 mm (intermittent) 58 to 150 Hz: 4.9 m/sec2 (continuous), 9.8 m/sec2 (intermittent)			
	Number of controlled axes	1/2			
Suc	Maximum total output of connected axes	400 W 800 W			
trol	Position detection method	Incremental encoder/Absolute encoder			
Control specifications	Speed setting	1 mm/sec ~ (The maximum limit varies depending on the actuator.)			
Spe	Acceleration setting	0.01 G ~ (The maximum limit varies depending on the actuator.)			
	Operation method	Program operation/positioner operation (switchable)			
	Program language	Super SEL			
	Number of programs	128 (*1)			
돌	Number of program steps	9999 (*1)			
Program	Number of multi-tasking programs	8			
Pro	Number of positioning points	20000 (*1)			
	Data storage device	Flash ROM (An optional system-memory backup battery can be added.)			
	Data input method	Teaching pendant or PC software			
	Number of I/O points	24 input points/8 output points (NPN/PNP selectable)			
o	I/O power supply	24 VDC ±10%, externally supplied			
cati	PIO cable	CB-DS-PIO (supplied with the controller)			
munica related	Serial communication function	RS232C (half-pitch connector)/USB connector			
Communication related	Field network cable	(To be supported in the future)			
Ō	Motor cable	CB-RCC2-MA (max. 20 m)			
	Encoder cable	CB-RCS2-PA 🔲 🔲 (max. 20 m)			
General specifications	Protective functions	Motor overcurrent, motor/driver temperature check, overload check, encoder open check, soft limit overtravel, system battery error, etc.			
ifica	Surrounding air temperature/humidity	0 to 40°C, 10 to 95% (non-condensing)			
oeci	Surrounding ambience	Free from corrosive gases or significant dust.			
al st	Protection degree	IP20			
ner	Weight	1.4 kg			
ē	External dimensions	100 mm (W) x 202.6 mm (H) x 126 mm (D)			

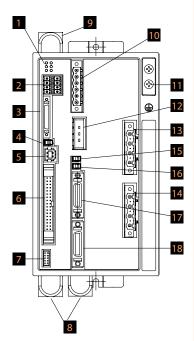
 $[\]label{eq:controllers} \mbox{(*1) These specifications are different for PNP controllers. Contact IAI for details.}$

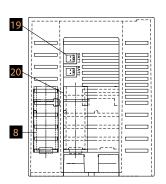
External Dimensions

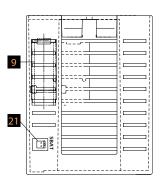




Name of Each Part







1 Status indicator LEDs

These LEDs indicate the operating status of the controller. What is indicated by each LED is explained below:

PWR: The power is currently input to the controller.

RDY: The controller is ready to perform program operation.

ALM: The controller is abnormal.

EMG: An emergency stop has been actuated and the drive source is being cut off.

SV1: The servo of actuator axis 1 is turned ON.

SV2: The servo of actuator axis 2 is turned ON.

2 System I/O connector

This connector connects the emergency stop input, enable input, brake power input, etc.

3 Teaching pendant connector

This half-pitch, IO26-pin connector is used to connect a teaching pendant when the operation mode is MANU. You need a dedicated conversion cable to connect to a conventional D-sub, 25-pin connector.

4 Mode switch

This switch is used to indicate the operation mode of the controller. The left position indicates the MANU (manual operation) mode, while the right position indicates the AUTO (auto operation) mode. Teaching operation can only be performed in the MANU mode, and auto operation using external IOs cannot be performed in the MANU mode.

5 USB connector

This connector is used to make USB connection with a PC. When the USB connector is in use, the TP connector cannot be used because communication through the TP connector is cut off.

6 IO connector

A connector for interface IOs.

If a DIO (24IN/8OUT) interface is used, this connector accepts a 34-pin flat cable connector.

The I/O power is also supplied to the controller through this connector (pins 1 and 34).

7 Panel unit connector

This connector is used to connect the panel unit (optional) for displaying the controller status and error numbers.

8 Absolute-data backup battery

This battery is used to retain position data even after the power is cut off when an absolute axis is operated.

9 System-memory backup battery (optional)

This connector is used to connect the battery needed to retain the various data stored in the built-in SRAM of the controller even after the power is cut off. The systemmemory backup battery is an optional. Specify the battery only if necessary.

10 Power-supply connector

A connector for AC power supply. The control power and motor power are input separately.

11 Grounding screw

A screw for protective grounding. Be sure to connect this screw to ground.

12 External regenerative resistor connector

This connector is used to connect an additional regenerative resistor when the built-in regenerative resistor is not enough due to high acceleration, high load, etc.

Whether or not an external regenerative resistor is needed depends on the specifics of the application, such as the axis configuration.

13 Axis 1 motor connector

Connect the motor cable for actuator axis 1 here.

14 Axis 2 motor connector

Connect the motor cable for actuator axis 2 here.

15 Axis 1 brake switch

This switch is used to release the axis brake. When the switch is set to the left (RLS) position, the brake is forcibly released. When the switch is set to the right (NOM) position, the brake is controlled automatically by the controller.

16 Axis 2 brake switch

This switch is used to release the axis brake. When the switch is set to the left (RLS) position, the brake is forcibly released. When the switch is set to the right (NOM) position, the brake is controlled automatically by the controller.

17 Axis 1 encoder connector

Connect the encoder cable for actuator axis 1 here.

18 Axis 2 encoder connector

Connect the encoder cable for actuator axis 2 here.

19 Axis 1 absolute battery connector

This connector is used to connect the absolute-data backup battery for axis 1 when the actuator is equipped with an absolute encoder.

20 Axis 2 absolute battery connector

This connector is used to connect the absolute-data backup battery for axis 2 when the actuator is equipped with an absolute encoder.

21 System-memory backup battery connector

This connector is used to connect the system-memory backup battery.

SSEL Controllers

Options

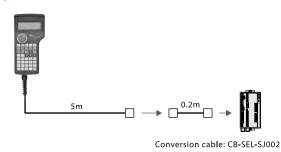
Teaching Pendant

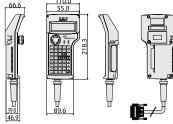
Features A teaching device offering functions for program/ position input, test operation, monitoring, and more.

■ Model/Price

Model	Description
SEL-T-J	Standard type with connector conversion cable
SEL-TD-J	Deadman switch type with connector conversion cable

■ Configuration





Specification

ltem	SEL-T-J	SEL-TD-J	
3-position enable switch	Not equipped	Equipped	
ANSI/UL standard	Not compliant	Compliant	
CE mark	Compliant		
Display	20 characters x 4 lines		
Surrounding air temperature/humidity	0–40°C 10–90%RH (non-condensing)		
Protection structure	IP54		
Weight	Approx. 0.4 kg (excluding cables)		

PC Software (Windows only)

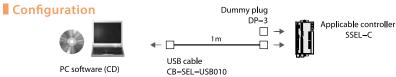
Features A software program that assists the initial startup of your system, offering functions for program/position input, test operation, monitoring, and more. The enhanced debugging functions help reduce the startup time.

IA-101-X-MW-J (with RS232C cable + connector conversion cable) Model IA-101-X-MW (with RS232C cable)

Configuration



IA-101-X-USB (with USB cable) Model





Note The SSEL controller only supports version

Regenerative Resistor Unit

Features This unit converts to heat the regenerative current produced when the motor decelerates. Use the table on the right to check the total wattage of the actuators to be operated, and provide a regenerative resistor or resistors if necessary.

REU-2 (for SCON/SSEL) Item

Specification	
Weight	0.9kg
Built-in regenerative resistor	220Ω 80W
Unit-controller connection cable (supplied)	CB-SC-REU010 (for SSEL)

■ Guide for Determining Necessary Number of Regenerative Resistor Units

	Horizonta	Vertica l
0 unit	~800W	~200W
1 unit		~600W
2 unit		~800W

* Depending on the operating conditions, the required number of regenerative resistor unit(s) may be more than what is specified above.

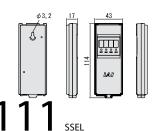
order one REU-2 and one REU-1 (refer to P. 132).

External Dimensions

Panel Unit

Features A display for checking controller error codes and the program number of the current program.

Model PU-1 (cable length: 3 m)



Absolute-data Backup Battery

Features An absolute-data backup battery used when an absolute actuator is operated. The battery is the

Model AB-5

same as the system-memory backup battery.

System memory backup battery

Features This battery is needed when global flags, etc., are used in the program and you want the data to be retained even after the power is turned off.

Model AB-5-CS (with case) AB-5 (battery)



Options

Dummy plug

Features This plug is connected to the teaching pendant to cut off the enable circuit when connecting the SSEL controller to a PC via a USB cable (This plug is supplied with the PC software IA-101-X-USB.)

Model DP-3



USB cable

Features This cable is used to connect a controller with USB port to a PC.

To connect a controller without USB port (XSEL) to a PC, connect the controller's RS232C cable to a USB cable via a USB conversion adapter and connect the USB cable to the USB port on the PC. (Refer to the PC software IA-101-X-USBMW.)

CB-SEL-USB010 (cable length: 1 m)



Connector conversion cable

Features This conversion cable is used to connect the D-sub, 25-pin connector for teaching pendant or PC to the teaching connector (half-pitch) on the SSEL controller.

■ Model

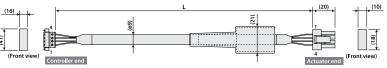
CB-SEL-SJ002 (cable length: 0.2 m)



Replacement Parts

If you must order a replacement cable, etc., after the initial purchase of your product, specify the correct model by referring to the information below.

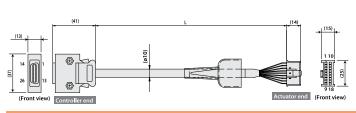
* I indicates the cable length (L). A desired length up to 30 m can be specified. Example) 080 = 8 m

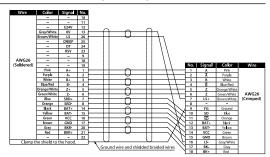


Wire	Color	Signal				Signal	Color	Wire
	Green	PE	1	\vdash	1	U	Red	
0.75	Red	υ	2	$\vdash \setminus \frown$	2	V	White	0.75sq
0.75sq	White	٧	3		3	w	Black	(Crimped
	Black	w	4		4	PE	Green	

 \square \square / CB-X3-PA Item CB-RCS2-PA

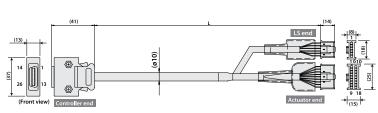
* Desired length up to 30 m can be specified. Example) 080 = 8 m

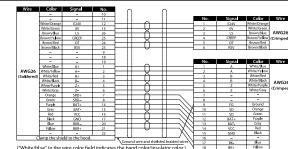




Encoder Cable/Robot Encoder Cable for RCS2-RT6/RT6R/RT7R

Item CB-RCS2-PLA CB-X2-PLA * indicates the cable length (L). A desired length up to 30 m can be specified. Example) 080 = 8 m

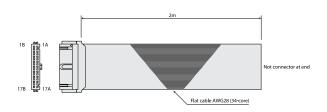




I/O Flat Cable

Item CB-DS-PIO

* Indicates the cable length (L). A desired length up to 10 m can be specified. Example) 080 = 8 m



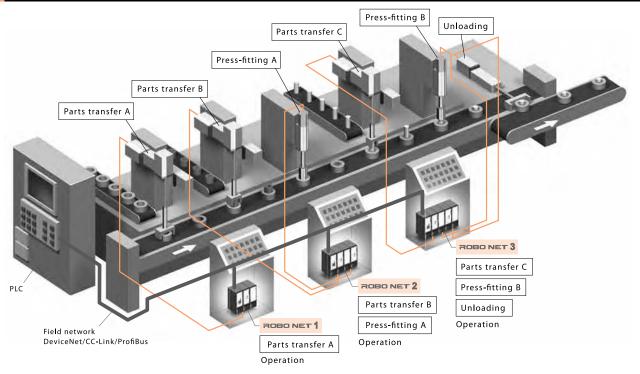
No.	Color	Wire	No.	Color	Wire
1A	Brown 1		9B	Gray 2	
1B	Red 1		10A	White 2	
2A	Orange 1		10B	Black 2	
2B	Yellow 1		11A	Brown-3	
3A	Green 1		11B	Red 3	
3B	Blue 1		12A	Orange 3	
4A	Purple 1		12B	Yellow 3	
4B	Gray 1	Flat	13A	Green 3	Flat
5A	White 1	cable,	13B	Blue 3	cable,
5B	Black 1	pressure-	14A	Purple 3	pressure-
6A	Brown-2	welded	14B	Gray 3	welded
6B	Red 2		15A	White 3	
7A	Orange 2		15B	Black 3	
7B	Yellow 2		16A	Brown-4	
8A	Green 2		16B	Red 4	
8B	Blue 2		17A	Orange 4	
9A	Purple 2		17B	Yellow 4	

ROBONET Controllers



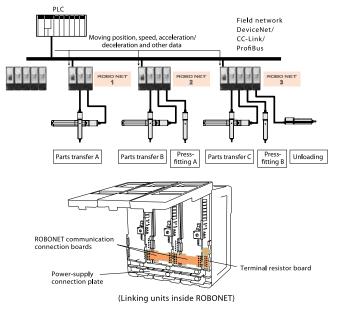
The ROBONET is a new type of controller unit capable of operating ROBO Cylinders at will via a field network. Adopting the wire-saving design, compact size and DIN-rail installation feature, the ROBONET lets you save the hassle of wiring and installation considerably compared to existing controllers.

Standard type



Wire-saving

Instead of connecting the I/O cables one by one to the PLC terminal, all I/Os can be connected via a field network. This means all you need to complete the wiring is to connect one dedicated cable. Also, units can be linked simply by interconnecting the unit connection boards, which significantly reduces the hassle of controller wiring.



Operation by Direct Numerical Specification of Moving Position, Speed, Acceleration/Deceleration, Etc.

In addition to using the traditional method of entering moving positions and speeds under position numbers and then specifying desired position numbers eternally, you can also send moving positions (coordinates), speeds, accelerations/decelerations, etc., as numeric data to operate the actuator.

This method is effective in situations where the moving position changes for each load or you want to move the load to a desired position.

	ROBONET controller	Standard controller (ACON/PCON)
Movement by position specification	0	0
Movement by direct numerical specification	0	۸
Speed/acceleration specification	0	(Not supported in the PIO mode)
Current value output	0	(Supported in the serial communication mode.)

^{*} The ROBONET operates via a field network, while the standard controller operates using PIOs.

Ultra-compact

Each unit adopts an ultra-compact size of just 34 mm (w) x 100 mm (h) x 73 mm (d)

Since there is no base unit and the controllers are linked using connectors, the installation space is minimized even when many units must be connected.



Up to 16 Controllers Can Be Operated

Up to 16 controller units can be connected to one communication unit (Gateway R unit). You can connect a desired combination of RACON units (RCA controllers) and RPCON units (RCP2 controllers).



Simple Absolute Specification Not Requiring Home Return

The simple absolute R unit lets you operate incremental axes without returning the axes to their home first. If a simple absolute R unit is installed on an RACON unit (RCA controller) or RPCON unit (RCP2 controller), the actuator's encoder data will be backed up even after the power is cut off.

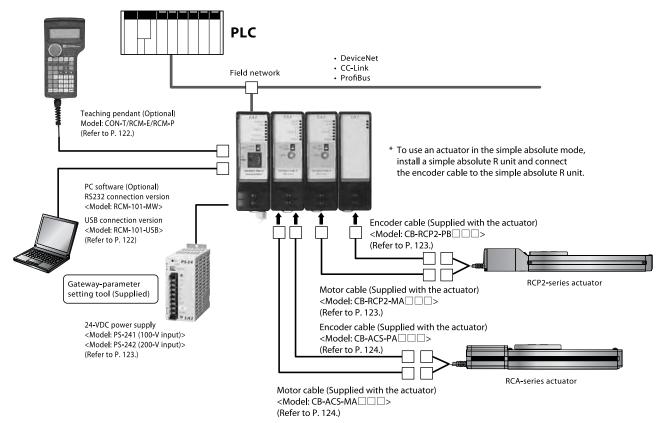


Installation to DIN Rail

Since the ROBONET adopts a DIN-rail installation feature, each controller can be affixed or removed with a single touch.

ROBONET Controllers

System Configuration



ROBONET Expansion unit

The ROBONET expansion unit (optional) lets you fold the unit link using a cable when many ROBONET units have been connected and the system has become too wide. You can also connect an SCON or other standalone controller to the network via the ROBONET.

[ROBONET expansion set A]

(Unit-folding set)

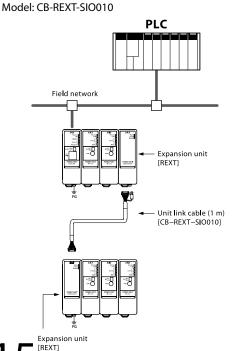
Model: REXT-SIO

(Items included in the set)

ROBONET

ROBONET expansion unit (model: REXT) x 2 x 1

Unit link cable



[ROBONET expansion set B]

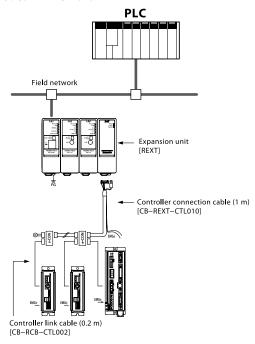
(Controller connection set)

Model: REXT-CTL

(Items included in the set)

ROBONET expansion unit (model: REXT) x 1 Controller connection cable x 1

Model: CB-REXT-CTL010



Component Units

You can order the necessary ROBONET components individually and combine them at your will.

If a need arises to add an actuator later, you can extend the system simply by adding an RACON/RPCON unit.



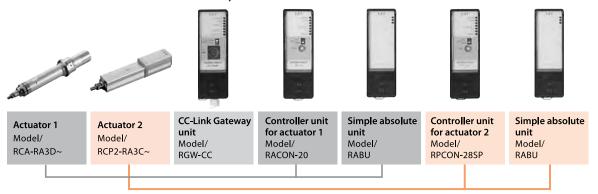
PROJECT PRICE Device Annual Price Pr	ADDONET ALON	ADDO HET Prime		ROBO NET
Gateway unit	RACON unit	RPCON unit	Simple absolute R unit	Expansion unit

Unit name	Description	Reference page
Gateway unit	A unit for making connection to a field network. One of four types (DeviceNet, CC-Link, ProfiBus and SIO) can be selected. *This unit is required in every ROBONET configuration.	P118 P119
RACON unit	A controller unit for operating an RCA actuator. (One RACON is required for one actuator axis.) Although the standard specification is incremental, you can also combine a simple absolute R unit to use the RACON unit as a simple absolute controller.	P120
RPCON unit	A controller unit for operating an RCP2 actuator. (One RPCON is required for one actuator axis.) Although the standard specification is incremental, you can also combine a simple absolute R unit to use the RPCON unit as a simple absolute controller.	P120
Simple absolute R unit	A backup battery unit for retaining the encoder data of the actuator after the power is cut off.	P121
Expansion unit	A unit for enabling operation via a network by folding the ROBONET link or connecting a standalone controller (SCON/PCON-CF) to the ROBONET.	P121

How to Order/Notes

You can individually order the necessary units comprising your ROBONET system. The delivered units are assembled by the customer. This feature lets you add units to the system or change existing units at will.

< Example of order> The following two axes are operated via CC-Link. The models specified below assume that the system is intended as an absolute system.



Operation Manual

The operation manual that comes with each ROBONET product is provided in a CD-ROM, not on paper (as a paper manual). If you with to have a paper operation manual, please specify so in your order. (Both the CD-ROM and paper manuals are free.)

You can also download the operation manual from our website.

Gateway-parameter **Setting Tool**

To connect the ROBONET to a field network, you need the gateway-parameter setting tool to set up the network. This tool can be obtained free of charge through the following methods:

- (1) Download the tool from IAI's website.
- (2) Purchase each PC software, and the tool will come with the PC software (included in the CD).

To use the gateway-parameter setting tool, you need a cable to connect the PC and controller (PC software cable (model: CB-RCA-SIO050+RCB-CV-MW)). If you don't have any PC software, purchase this cable separately.

PC Software, **Teaching Pendant** To input position data, etc., to a ROBONET controller unit (RACON/RPCON), you need the PC software or

The ROBONET supports the PC software (model: RCM-101-MW/USB) of Version 6.04 or later. As for teaching pendants, the ROBONET supports the RCM-T of Version 2.06 or later and RCM-E/RCM-P of Version 2.08 or later.

The ROBONET can be used with any version of the CON-T.

If the version of your current PC software or teaching pendant is old, contact your IAI representative.

ROBONET Controllers

Explanation of Operation Modes

The ROBONET operates by receiving instructions from a PLC via a field network.

The ROBONET can be operated in any of the three modes specified below. Use a desired mode according to how your system should be operated and controlled.

	Name	Description			
1	Positioner mode	In this mode, the actuator is operated by specifying position numbers. The position data, speed, acceleration/deceleration, etc., are input to the position table beforehand. Up to 768 positions can be registered.			
2	Simple direct mode In this mode, only the position data is specified directly by a value, and the remaining item acceleration/deceleration, positioning band and current-limiting value during push-motion specified by a position number. Up to 768 positions can be registered.				
Direct numerical specification mode		In this mode, the actuator is operated by specifying the position data, speed, acceleration/deceleration, positioning band and current-limiting value during push-motion operation directly by values. Since positions are specified numerically, there is no limit to the number of positioning points that can be registered.			

List of Functions by Operation Mode

	Positioner mode	Simple direct mode	Direct numerical specification mode
Number of registerable positions	768	768	
Movement by position number specification	0	×	×
Direct specification of position data	×	0	0
Direct specification of speed and acceleration/deceleration	X (Specified in the position table.)	X (Specified in the position table.)	0
Direct specification of positioning band	X (Specified in the position table.)	X (Specified in the position table.)	0
Push-motion operation	(Specified in the position table.)	(Specified in the position table.)	0
Monitoring of completed position number	0	0	×
Monitoring of zone output	0	0	0
Monitoring of position zone output	0	0	×
Teaching function	0	×	×
Jogging operation	0	0	0
Inching operation	0	0	0
Monitoring of various status signals (*)	0	0	0
Monitoring of current position (*)	0	0	0
Monitoring of alarm codes (*)	0	0	0
Monitoring of speed/current (*)	×	×	0
Maximum specifiable value of position data	9999.99mm	9999.99mm	9999.99mm
Number of connectable axes	16	16	8

^{*} The various status signals, current position, alarm codes and speed/current can be monitored by accessing each address of the Gateway R unit from the PLC.

Gateway R Unit of DeviceNet Specification



This communication unit is used to operate the ROBONET via DeviceNet. Model **RGW-DV**

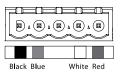
Specification

I t	Item		Specification		Item		Specification			
Power suppl	Power supply		DC24V ±10%			Baud rate	Maximum network length	Maximum branch length	Total branch length	
Current cons	Current consumption				Communication	500kbps	100m		39m	
			eNet 2.0 interface module	DeviceNet	cable length	250kbps	250m	6m	78m	
	Communication protocol	Group 2 only server		specifications		125kbps	500m		156m	
DeviceNet		Insulation node of network-power operation type				Note) When a thick DeviceNet cable is used.				
specifications	Communication specification	Master-slave connection	Bit strobe		Number of occupied nodes	1 node				
			Polling	Environment conditions	Surrounding air temperature	0~40°C	0~40°C			
			Cyclic		Surrounding humidity	95% RH or below (non-condensing)				
	Baud rate	500k/250k/125 (switchable usi	kbps ing dedicated software)		Operating ambience	Free from corrosive gases, flammable gas, oil mist or powder dust.				
*1 If T-branching communication is to be used, refer to the operation manuals of the master unit and PLC installed in the master unit.				Protection degree		IP20				
				Weight	/eight 140g					
					Accessories Terminal resistor board (model: TN-1) Network connector/emergency stop co				ctor	

Network Connector

Gateway connector: MSTBA2.5/5-G-5.08 ABGY AU (by Phoenix Contact)

Cable-end connector MSTB2.5/5-ST-5.08 ABGY AU (by Phoenix Contact) = Standard accessory



Pin color	Explanation			
Black	Power-supply cable -			
Blue	Communication data low			
-	Shield			
White	Communication data high			
Red	Power-supply cable +			

Applicable Wire for Cable-end Connector

Item	Description
Applicable wire size	Stranded wires: AWG24-12(0.2~2.5mm²)
Stripped length	7mm

Gateway R Unit of CC-Link Specification



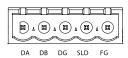
This communication unit is used to operate the ROBONET via CC-Link. Model RGW-CC

Specification

Item		Specification	Item		Specification					
Power supply		DC24V ±10%		Error control method	CRC (X16+X12+X5+1)					
Current consumption		Max. 600 mA		Number of occupied stations	Remote device station x1: 4 stations x4: 2 stations x8: 2 stat				ns	
	Communication protocol	CC-Link Ver2.0 (*)	CC-Link specifications	Communication cable length	Baud rate (bps)	10M	5M	2.5M	625k	156k
	Communication specification	10M/5M/2.5M/625k/156kbps (switchable using dedicated software)		(*2)	Total cable length (m)	100	160	400	900	1200
CC-Link	Communication method	Broadcast polling method		Communication cable	Dedicated CC-Link cable					
specifications	Synchronization method	Frame synchronization method		Surrounding air temperature	0~40°C					
	Encoding method	NRZI	Environment conditions	Surrounding humidity	95% RH or below (non-condensing)					
	Transmission path format	Bus format (conforming to EIA RS485)		Operating ambience	Free from corrosive gases, flammable gas, oil mist or powder dust.					
	Transmission format	Conforming to HDLC	Protection deg	ree	IP20					
*1 Certified *2 If T-branching communication is to be used, refer to the operation manuals of the master unit and PLC installed in the master unit.			Weight		140g					
			Accessories Terminal resistor board (model: Network connector/emergency Terminal resistor cable (1100/1			cy stop		tor		

Network Connector

Gateway connector: MSTBA2.5/5-G-5.08AU (by Phoenix Contact) Cable-end connector MSTB2.5/5-ST-5.08 ABGY AU (by Phoenix Contact) = Standard accessory



Signal name	Explanation
DA	Communication line A
DB	Communication line B
CG	Ground
SLD	Connect the shield or cable shield. The SLD signal is connected to "FG" and the enclosure.
FG	Frame ground. The FG signal is connected to "SLD" and the enclosure.
	DA DB CG SLD

Applicable Wire for Cable-end Connector

Item	Description
Applicable wire size	Stranded wires: AWG24-12(0.2~2.5mm²)
Stripped length	7mm

ROBONET Controllers

Gateway R Unit of ProfiBus Specification



This communication unit is used to operate the ROBONET via ProfiBus. ${\bf Model} \quad {\bf RGW-PR}$

Specification

Ite	Item Specification		It	em	Specification	
Power supply Current consumption		DC24V ±10% Max. 600 mA		Surrounding air temperature		0~40°C
					Surrounding humidity	95% RH or below (non-condensing)
	Communication protocol	DP slave			Operating ambience	Free from corrosive gases, flammable gas, oil mist or powder dust.
	Baud rate	9.6kbps~12Mbps		Protection degree		IP20
ProfiBus	s	9.6kbps	1500m	Weight		140g
specifications		500kbps	400m	Accessories		Terminal resistor board (model: TN-1) Network connector/emergency stop connector
	Communication cable length	1.5Mbps	200m			3 / 1
		3Mbps	200m			
		12Mbps	100m			

Network Connector

Gateway connector: D-sub, 9-pin connector, socket end



9 6

Pin No.	Signal name	Explanation	Pin No.	Signal name	Explanation
3	B-Line	Communication line B (RS485)	6	+5V	+5-V output (insulated)
4	RTS	Request to send	8	A-Line	Communication line A (RS485)
5	GND	Signal ground (insulated)	Housing	Shield	Cable shield. Connected to the enclosure.

- * The mating connector (D-sub, 9-pin connector) is not supplied.
- * Pins 1, 2, 7 and 9 are not connected.

Gateway R Unit of SIO Specification



This communication unit is used to operate the ROBONET in serial communication from an XSEL controller (*1) or Modbus communication unit.

Model RGW-SIO

Specification

Ite	em	Specification	It	em	Specification
	Power supply	DC24V ±10%		Surrounding air temperature	0~40°C
	Current consumption	Max. 600 mA	Environment conditions	Surrounding humidity	95% RH or below (non-condensing)
	Communication format	Conforming to RS485 (Modbus protocol), 1:1 communication connection		Operating ambience	Free from corrosive gases, flammable gas, oil mist or powder dust.
SIO specifications	Communication method	Asynchronous, half-duplex		Protection degree	IP20
	Baud rate	Max. 230.4 kbps	Weight		140g
	Cable length	100 m or less	Accessories		Terminal resistor board (model: TN-1) Network connector/emergency stop connector
	Recommended cable	Twisted paired cable (shielded) x 2			3 , !

Network Connector

Gateway connector: MC1.5/4-G-3.5 (by Phoenix Contact)

Cable-end connector MC1.5/4-ST-3.5 (by Phoenix Contact) = Standard accessory



Signal name	Explanation					
SA	Communication line A (+)	Conforming to RS485 With a built-in terminal				
SB	Communication line A (-)	resistor (220Ω)				
SG	Signal ground Frame ground. Connected to the enclosure.					
FG						

Applicable Wire for Cable-end Connector

Item	Description
Applicable wire size	Stranded wires: AWG28-16 (0.14~1.5mm²)
Stripped length	7mm

RACON Unit: RCA-series Controller



This controller unit is used to operate an RCA actuator in a ROBONET system.

Model RACON-[1]-[2]

* Specify the motor wattage in [1] in the model name. (Refer to the table below.)
In [2], specify "ABU" only if you are using the simple absolute unit. (If the simple absolute unit is not used, leave this space blank.)

Model	Applicable actuators
RACON-20-[2]	RCA-SA4□ / SS4□ / SA5□ / SS5□ / RA4□-20 / RG□4□-20/ A4R / A5R RCACR-SA4C / SA5□ RCAW-RA4□-20
RACON-20S-[2]	RCA-RA3□ / RG□3 RCAW-RA3□
RACON-30-[2]	RCA-SA6□ / SS6□ / RA4□-30 / RG□4□-30 / A6R RCACR-SA6□ RCAW-RA4□-30

Specification

Ite	em	Specification	l1	tem	Specification		
	Power supply	DC24V ±10%		Surrounding air temperature	0~50°C		
	Power-supply capacity	Max. 5.1 A (The specific capacity varies depending on the actuator.)	Environment	Surrounding humidity	95% RH or below (non-condensing)		
	Operated actuator	RCA series	conditions	Operating ambience	Free from corrosive gases, flammable gas, oil mist or powder dust.		
General	Number of positioning points	768		Protection degree	IP20		
specifications	Backup memory	EEPROM	Weight		200g		
	Position detection method	Incremental encoder	Accessories		ROBONET communication connection board		
	Forced release of electromagnetic brake	Brake release switch			(model: JB-1), power-supply connection plate (model: PP-1)		
	Motor cable	Model CB-ACS-MA□□□					
	Encoder cable	Model CB-ACS-PA□□□					

RPCON Unit: RCP2-series Controller



This controller unit is used to operate an RCP2 actuator in a ROBONET system.

Model RACON-[1]-[2]

- * Specify the motor type in [1] in the model name. (Refer to the table below.)
 In [2], specify "ABU" only if you are using the simple absolute unit. (If the simple absolute unit is not used, leave this space blank.)
- * The simple absolute unit cannot be used with the RCP2-RA2C, GRS, RTB and RTC.

Model	Applicable actuators
RPCON-20P RCP2-RA2C / GRS	
RPCON-28P-[2] RCP2-GRM / GR3LS / GR3SS / RTB / RTC	
RPCON-28SP-[2]	RCP2-RA3C / RGD3C
RPCON-42P-[2]	RCP2-SA5□ / SA6□ / SS7□ / BA6□ / BA7□ / RA4C / RG□4C /GR3LM / GR3SM RCP2CR-SA5C / SA6C / SS7C RCP2W-RA4C
RPCON-56P-[2]	RCP2-SA7□ / SS8□ / RA6C / RG□6C / RCP2CR-SA7C / SS8C RCP2W-RA6C

* RCP2 actuators of old types are also supported. (Contact IAI for details.)

Specification

Ite	em	Specification	Item		Specification	
	Power supply	DC24V ±10%		Surrounding air temperature	0~50°C	
General	Power-supply capacity	Max. 2 A	Environment	Surrounding humidity	95% RH or below (non-condensing)	
	Operated actuator	RCP2 series	conditions	Operating ambience	Free from corrosive gases, flammable gas, oil mist or powder dust.	
	Number of positioning points	768		Protection degree	IP20	
specifications	Backup memory	EEPROM	Weight		200g	
	Position detection method	Incremental encoder	A		ROBONET communication connection board	
	Forced release of electromagnetic brake	Brake release switch	Accessories		(model: JB-1), power-supply connection plate (model: PP-1)	
	Motor cable	Model CB-RCP2-MA□□□				
	Encoder cable	Model CB-RCP2-PB□□□				

ROBONET Controllers

Explanation of Component Units (Simple Absolute R Unit/Expansion Unit)

Simple absolute R unit



When this data-backup battery unit is connected to an RACON or RPCON (*1), an incremental actuator can be used as an absolute actuator.

*1 One simple absolute R unit is required for one RACON or RPCON unit.

Model RABU (RACON/RPCON)

* To order a simple absolute R unit together with a controller unit (RACON/RPCON), specify "-ABU" at the end of the model code of the controller to which the simple absolute R unit will be installed.

Specification

Ite	em	Specification			Item		Specification	
	Power supply	DC24V ±10% Max. 300 mA					Surrounding air temperature	0~40°C
	Current consumption					Environment	Surrounding humidity	95% RH or below (non-condensing)
	Applicable Ni-MH battery, nickel hydrogen battery		conditions	Operating ambience	Free from corrosive gases, flammable gas, oil mist or powder dust.			
General	Charge time	Approx. 78 hours					Protection degree	IP20
specifications	Battery life	3 years				Weight		330g
	Maximum rotation speed at which absolute data can be backed up (rpm)	800	400	200	100	Accessories		ROBONET communication connection board (model: JB-1), Simple absolute connection board (model: JB-1),
	Absolute-data backup time (h)	120	240	360	480			power-supply connection plate (model: PP-1)

Example of order



In certain situations, such as when many controllers have been linked to the ROBONET and the system has become too wide to fit the control panel, this unit can be used to fold the controller link by connecting a cable in the middle of the link.

You can also install the expansion unit at the end of the ROBONET link and use an external controller cable to operate an SCON or other standalone controller on the network just like the controller units linked to the ROBONET.

Model REXT (RPCON/RACON)

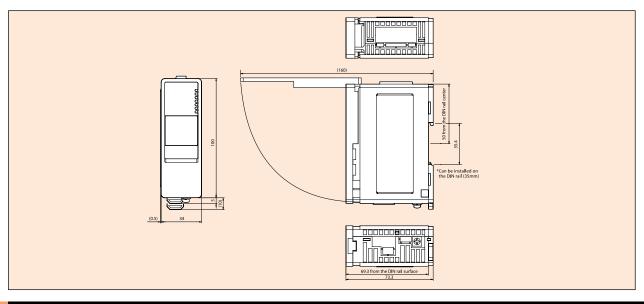
Specification

ltem		Specification
General Power supply		DC24V ±10%
specifications	Current consumption	Max. 100 mA
	Surrounding air temperature	0~40°C
Environment	Surrounding humidity	95% RH or below (non-condensing)
conditions	Operating ambience	Free from corrosive gases, flammable gas, oil mist or powder dust.
	Protection degree	IP20
Weight	·	140g
Accessories		ROBONET communication connection board (model: JB-1), power-supply connection plate (model: PP-1)

(Note) The cable used when the ROBONET link is folded is different from the one used to connect a standalone controller. For details, refer to the system configuration (ROBONET expansion unit) on P. 117.

External Dimensions

The Gateway R unit, RACON unit, RPCON unit and simple absolute R unit all have the same external dimensions.



Options



ROBONET communication connection board (simple absolute connection board) Model JB-1



Terminal resistor board Model TN-1



Power-supply connection plate Model PP-1

ROBONET Controllers

Options

24-VDC Power Supply

■ Features

This 24-V power supply for ROBO Cylinder has the rated maximum instantaneous output of 17 A. Since multiple PS units can be operated in parallel, you can add up to five PS units to your system if one PS does not provide enough capacity.

Model

PS-241

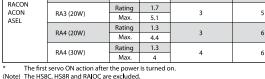
(100-V input specification)

PS-242

(200-V input specification)

Relationship of actuator and power-supply current

		Power-supply		Number of connect		
Controller type	Actuator type		ent [A]	Servos of all axes are turned ON simultaneously *	Servos of all axes are not turned ON simultaneously *	
RPCON PCON PSEL	All RCP2 models (Note)	Rating (= Max.)	2	8	8	
	SA4, SA5 (20W)	Rating	1.3	3	6	
	3A4, 3A3 (20W)	Max.	4.4	3	0	
	SA6 (30W)	Rating	1.3	4	6	
		Max.	4	4		
RACON ACON	D 4 3 (2014)	Rating	1.7	3	5	
ASEL	RA3 (20W)	Max.	5.1	3		
	RA4 (20W)	Rating	1.3	3	6	
	NA4 (2000)	Max.	4.4	3		
	RA4 (30W)	Rating	1.3	4	6	
	11/14 (3011)	Max.	4	7		





Replacement Parts

If you must order a replacement cable, etc., after the initial purchase of your product, specify the correct model by referring to the information below.



ROBONET communication connection board (simple absolute connection board) Model JB-1



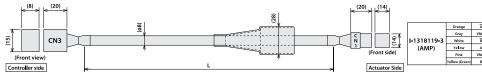
Terminal resistor board Model TN-1

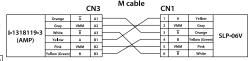


Power-supply connection plate Model PP-1

Item CB-RCP2-MA

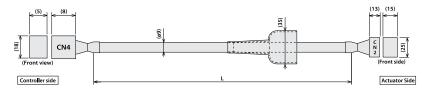
- The standard motor cable is a robot cable. You can select whether or not to use a robot cable.

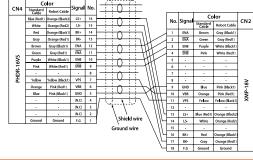




Item CB-RCP2-PB ... /CB-RCP2-PB

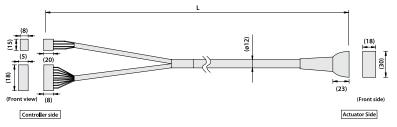
- * The standard encoder cable is a normal cable. A robot cable can be specified as an option. $\Box\Box\Box$ indicates the cable length (L). A desired length up to 20 m can be specified.

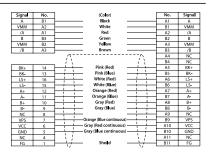




Item CB-PCS-MPA

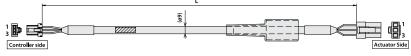
* $\square \square \square$ indicates the cable length (L). A desired length up to 10 m can be specified. Example) 080 = 8 m





Replacement Parts

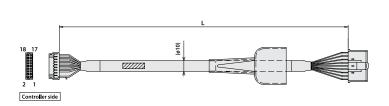


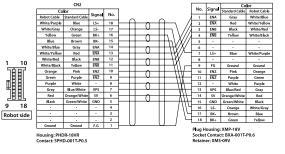


	Wire	Color	Signal	No.	No	. Sig	gnal	Color	Wire
		Red	U	1	1		U	Red	
.	AWG22	White	V	2	2	Т	v	White	AWG22
	(Press fit)	Black	w	3	3		w	Black	(Press fit)

□/CB-ACS-PA□□□-RB Item CB-ACS-PA

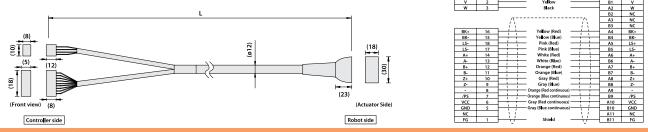
- * The standard encoder cable is a normal cable. A robot cable can be specified as an option.
 * □ □ □ indicates the cable length (L). A desired length up to 20 m can be specified.



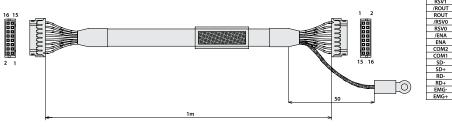


Item CB-ACS-MPA

* $\square \square \square$ indicates the cable length (L). A desired length up to 20 m can be specified. Example) 080 = 8 m



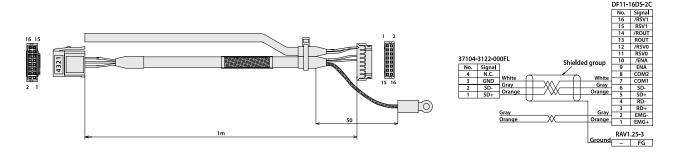
Item CB-REXT-SIO010



DF11-160	S-2C		/	idea group	DF11	16DS-2C
Signal name	No.	Black2/White (\sim	Black2/White	No.	Signal name
/RSV1	16	Red2/White	+ w $+$	Red2/White	16	/RSV1
RSV1	15		$+\sim$		15	RSV1
/ROUT	14	Black2/Gray Red2/Gray	$+$ ω $+$	Black2/Gray	14	/ROUT
ROUT	13		$+\sim$	Red2/Gray Black2/Orange	13	ROUT
/RSV0	12	Black2/Orange	+		12	/RSV0
RSVO	11	Red2/Orange Black1/Pink	$+\sim$	Red2/Orange	11	RSV0
/ENA	10		+	Black1/Pink	10	/ENA
ENA	9	Red1/Pink	$+\sim$	Red1/Pink	9	ENA
COM2	8	Black1/Yellow	+	Black1/Yellow	8	COM2
COM1	7	Red1/Yellow	$+-\infty$	Red1/Yellow	7	COM1
SD-	6	Black1/White	+	Black1/White	6	SD-
SD+	5	Red1/White	$+-\infty$	Red1/White	5	SD+
RD-	4	Black1/Gray	\rightarrow	Black1/Gray	4	RD-
RD+	3	Red1/Gray	XX	Red1/Gray	3	RD+
EMG-	2	Black1/Orange	+	Black1/Orange	2	EMG-
EMG+	1	Red1/Orange	+x	Red1/Orange	1	EMG+
		•		Ground	RAV	1.25-3
		,	\sim	Ground	-	FG

Legend of wire color: Dot color and number of dot(s)/insulator color

Item CB-REXT-CTL010





X-SEL

RCS2-series program controller



Model List/Pricing

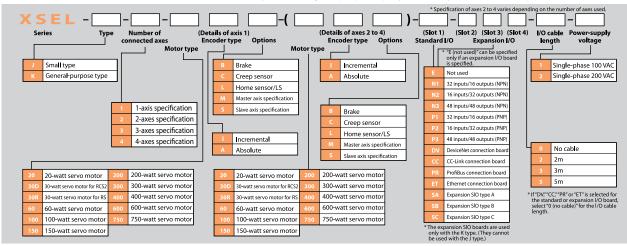
A multi-axis program controller capable of operating RCS2-series actuators. Up to six axes can be controlled simultaneously.

Туре	J	К	Р	Q		
Name	Small type	General-purpose type	Large-capacity type	Large-capacity type (conforming to safety category)		
Exterior view			e III a			
Description	A small, low-cost type ideal for operating low-output actuators	A standard type offering great expandability	A large-capacity type capable of operating up to six axes or 2400 W	A large-capacity type that can be configured to meet safety category 4		
Maximum number of controlled axes		4	6			
Number of positions	30	000	40	000		
Total wattage of connectable axes	800W	1600W	240	00W		
Power supply	Single-phase 100 VAC	, Single-phase 200 VAC	Single-phase 200 VAC	, Three-phase 200 VAC		
Safety category		В	В	Can be configured to meet category 4.		
Safety standard	_	_	CE	CE, ANSI		
Standard price	Contact IAI.					

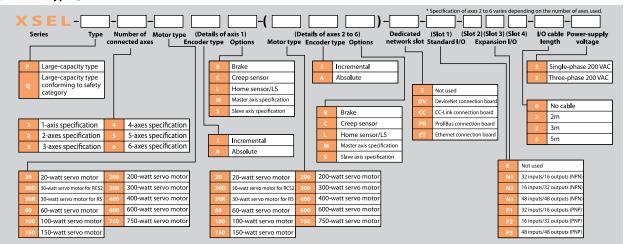
Model

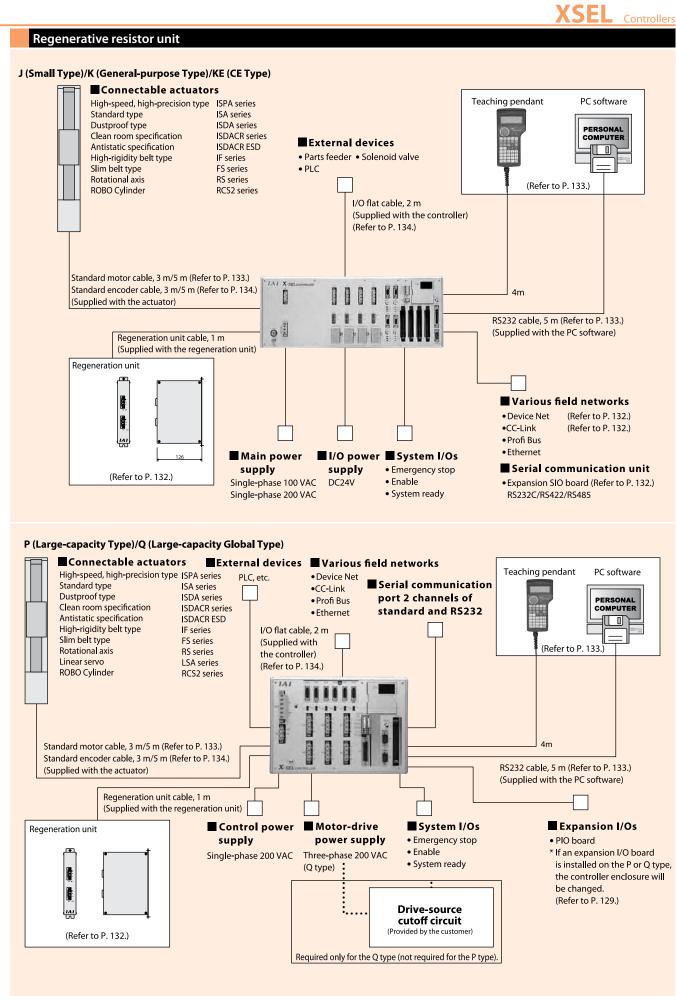
[XSEL-J/K Types]

* If you are selecting multiple options, specify them in an alphabetical order. (Example: Brake + Home sensor [] BL)



[XSEL-P/QTypes]



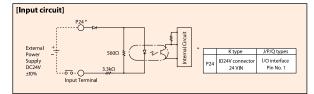


XSEL Controllers

I/O Wiring

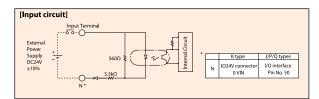
■ Input External input specifications (NPN specification)

Item	Specification
Input voltage	DC24V ±10%
Input current	7 mA per circuit
ON/OFF voltages	ON voltage Min. 16.0 VDC / OFF voltage Max. 5.0 VDC
Insulation method	Photo-coupler insulation
Externally connected devices	[1] No-voltage contacts (minimum load of approx. 5 VDC/1 mA) [2] Photoelectric/proximity sensors (NPN type) [3] Sequencer transistor outputs (open-collector type) [4] Sequencer contact outputs (minimum load of approx. 5 VDC/1 mA)



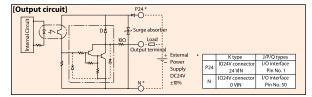
■ Input External input specifications (PNP specification)

Item	Specification
Input voltage	DC24V ±10%
Input current	7 mA per circuit
ON/OFF voltages	ON voltage Min. 8.0 VDC / OFF voltage Max. 19.0 VDC
Insulation method	Photo-coupler insulation
Externally connected devices	[1] No-voltage contacts (minimum load of approx. 5 VDC/1 mA) [2] Photoelectric/proximity sensors (PNP type) [3] Sequencer transistor outputs (open-collector type) [4] Sequencer contact outputs (minimum load of approx. 5 VDC/1 mA)



Output External output specifications (NPN specification)

Item	Specification	
Load voltage	DC24V	
Maximum load current	100 mA per point, 400 mA peak (total current)	TD62084 (or equivalent) is used.
Leak current (max.)	Max. 0.1 mA per point	
Insulation method	Photo-coupler insulation	
Externally	[1] Miniature relays	
connected devices	[2] Sequence input units	

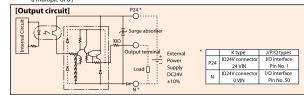


Output External output specifications (NPN specification)

Item	Specification	
Load voltage	DC24V	
Maximum load current	100 mA per point 400 mA per 8 ports Note)	TD62784 (or equivalent) is used.
Leak current (max.)	Max. 0.1 mA per point	
Insulation method	Photo-coupler insulation	
Externally connected devices	[1] Miniature relays [2] Sequence input units	

Note) The maximum total load current for every eight ports from output port No. 300 is 400 mA.

(The maximum total load current of output port Nos. 300+n to 300+n+7 is 400 mA, where n is 0 or a multiple of 8.)



I/O Signal Tables

Standard I/O Signal Table (When N1 or P1 is selected)

maara	1/0 319	Jilai iai	ole (when NT or PT is selec
Pin No.	Category	Port No.	Standard setting
1		_	(J/P/Q types: 24-V connection / K type: NC)
2		000	Program start
3		001	General-purpose input
4		002	General-purpose input
5		003	General-purpose input
6		004	General-purpose input
7		005	General-purpose input
8		006	General-purpose input
9		007	Program specification (PRG No. 1)
10		800	Program specification (PRG No. 2)
11		009	Program specification (PRG No. 4)
12		010	Program specification (PRG No. 8)
13		011	Program specification (PRG No. 10)
14		012	Program specification (PRG No. 20)
15		013	Program specification (PRG No. 40)
16		014	General-purpose input
17	Input	015	General-purpose input
18		016	General-purpose input
19		017	General-purpose input
20		018	General-purpose input
21		019	General-purpose input
22		020	General-purpose input
23		021	General-purpose input
24		022	General-purpose input
25		023	General-purpose input
26		024	General-purpose input
27		025	General-purpose input
28		026	General-purpose input
29		027	General-purpose input
30		028	General-purpose input
31		029	General-purpose input
32		030	General-purpose input
33		031	General-purpose input
34		300 301	Alarm output Ready output
36		301	Emergency stop output
36		302	General-purpose output
38		303	General-purpose output
39		304	General-purpose output
40		306	General-purpose output
41		307	General-purpose output
42	Output	308	General-purpose output
43	Sutput	309	General-purpose output
44		310	General-purpose output
45		311	General-purpose output
46		312	General-purpose output
47		313	General-purpose output
48		314	General-purpose output
49		315	General-purpose output

Expansion I/O Signal Table (When N1 or P1 is selected Pin No. | Category | Standard setting

1		(J/P/Q types: 24-V connection / K type: NC)
2		General-purpose input
3		General-purpose input
4		General-purpose input
5		General-purpose input
		General-purpose input
6		General-purpose input
7		General-purpose input
8		
9		General-purpose input
10		General-purpose input
11		General-purpose input
12		General-purpose input
13		General-purpose input
14		General-purpose input
15		General-purpose input
16		General-purpose input
17	Input	General-purpose input
18		General-purpose input
19		General-purpose input
20		General-purpose input
21		General-purpose input
22		General-purpose input
23		General-purpose input
24		General-purpose input
25		General-purpose input
26		General-purpose input
27		General-purpose input
28		General-purpose input
29		General-purpose input
30		General-purpose input
31		General-purpose input
32		General-purpose input
33		General-purpose input
34		General-purpose output
35		General-purpose output
36		General-purpose output
37		General-purpose output
38		General-purpose output
39		General-purpose output
40		General-purpose output
41		General-purpose output
42	Output	General-purpose output
43		General-purpose output
44		General-purpose output
45		General-purpose output
46		General-purpose output
47		General-purpose output
48		General-purpose output
49		General-purpose output
50		(J/P/Q types: 0-V connection / K type: NC)
	_	

Expansion I/O Signal Table (When N2 or B2 is selected)

1		(J/P/Q types: 24-V connection / K type: NC)
2		General-purpose input
3		General-purpose input
4		General-purpose input
5		General-purpose input
6		General-purpose input
7		General-purpose input
8		General-purpose input
9	Input	General-purpose input
10		General-purpose input
11		General-purpose input
12		General-purpose input
13		General-purpose input
14		General-purpose input
15		General-purpose input
16		General-purpose input
17		General-purpose input
18		General-purpose output
19		General-purpose output
20		General-purpose output
21		General-purpose output
22		General-purpose output
23		General-purpose output
24		General-purpose output
25		General-purpose output
26		General-purpose output
27		General-purpose output
28		General-purpose output
29		General-purpose output
30		General-purpose output
31		General-purpose output
32		General-purpose output
33		General-purpose output
34	Output	General-purpose output
35		General-purpose output
36		General-purpose output
37		General-purpose output
38		General-purpose output
39		General-purpose output
40		General-purpose output
41		General-purpose output
42		General-purpose output
43		General-purpose output
44		General-purpose output
45		General-purpose output
46		General-purpose output
47		General-purpose output
48		General-purpose output
49		General-purpose output
50		(J/P/Q types: 0-V connection / K type: NC)

■ J (Small Type)/K (General-purpose Type)

Specification Table

Item	Description							
Controller series/type		J (small type) K (general-purpose type)/KE (CE type)						
Connected actuators			RCS2/	ISA/ISPA/ISP/ISDA/I	SDACR/ISPDACR/IF/	FS/RS		
Applicable motor output (W)			2	20/30/60/100/150/2	00/300/400/600/750	0		
Number of connected axes	1	2	3	4	1	2	3	4
Maximum output of connected axes (W)		lax 800 (at power-su	, 3		Max	1	t power-supply volta	•
	N	lax 400 (at power-su			800		power-supply volta	ge of 200 V)
Input power supply				•	le-phase 100 to 115 le-phase 200 to 230			
Operating power-supply voltage range				±1	0%			
Power-supply frequency				50Hz	/60Hz			
Power-supply capacity	Max [*]	1670VA	Max 1720VA	Max 1810VA	Max 1670VA	Max 3120VA	Max 3220VA	Max 3310VA
Position detection method					er (wire-saving type)		322377	33.00
Position detection method			Multi-rotation	on data backup abso	olute encoder (wire-	saving type)		
Speed setting		1 mm/sec \sim (The maximum limit varies depending on the actuator.)						
Acceleration setting			0.01 G ~ (Th	e maximum limit va	ries depending on t	he actuator.)		
Program language				Supe	er SEL			
Number of programs		64						
Number of program steps				6,000	(total)			
Number of multi-tasking programs				1	6			
Number of positions				3,0	000			
Data storage device				Flash ROM + SRA	M backup battery			
Data input method				Teaching penda	nt or PC software			
Standard I/Os	32 p	oints (total of dedica	ated inputs + genera	al-purpose inputs)/1	6 points (total of de	dicated outputs + g	jeneral-purpose out	outs)
Expansion I/Os	No	one	1 unit, 48 points (1	unit can be added)	1 u	ınit, 48 points (Up to	3 units can be adde	ed)
Serial communication function		Standard RS232 p	ort (D-sub, 25-pin)		Standa	rd RS232 port + Exp	ansion SIO board (o	otional)
Other I/Os				<u> </u>	, enable input, syste	, , ,		
Protective functions	Motor overcurrent, overload, motor/driver temperature check, overload check,							
	encoder open detection, soft limit overtravel, system error, battery error, etc.							
Surrounding air temperature/humidity	Temperature 0 to 40° C, humidity 30 to 85%							
Surrounding ambience	Free from corrosive gases or significant dust.							
Weight	2.6kg 3.3kg 5.0kg 6.0kg 7.0kg				kg			
Accessory				I/O fla	t cable			

■ P (Large-capacity Type)/Q (Large-capacity Type Conforming to Safety Category)

Item		Description										
Controller series/type	P (standard) type Q (global) type											
Connected actuators				R	CS2/ISA/ISPA	ISP/ISDA/ISD	ACR/ISPDACE	R/IF/FS/RS/LS	SA .			
Applicable motor output		20/30/60/100/150/200/300/400/600/750										
Number of controlled axes	1	2	3	4	5	6	1	2	3	4	5	6
Maximum output of connected axes (W)	Max2400W (1600 W for single-phase 200-VAC specification)											
Control power input		AC 20	0/230, single	-phase -15%,	+10%			AC 20	00/230, single-	-phase -15%,	+10%	
Motor power input		AC 200/230,	single-phase	three-phase	-10%, +10%			AC 200/230,	single-phase	three-phase/	-10%, +10%	
Power-supply frequency						50/6	0Hz					
Insulation resistance	10	MΩ or more	(at 500 VDC,	between the	oower-supply	terminal and	l each I/O terr	ninal and be	tween all exte	ernal termina	ls and the cas	ie)
Withstand voltage			1500 VAC	(1 minute)					1500 VAC	(1 minute)		
Power-supply capacity (*1)	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
	1744VA	3266VA	4787VA	4878VA	4931VA	4998VA	1744VA	3266VA	4787VA	4878VA	4931VA	4998VA
Position detection method					Increm	ental encode	r (wire-saving	type)				
rosition detection method				Multi-	rotation data	backup abso	lute encoder	(wire-saving	type)			
Safety circuit configuration		F	Redundancy	not supported	ł				Redundancy	y supported		
Drive-source cutoff method			Internal c	utoff relay					External sa	fety circuit		
Enable input		Contact	B input (pow	er supplied in	ternally)		Co	ontact B inpu	ut (power sup	plied externa	lly, redundan	t)
Speed setting				1 mm/s	ec ~ (The ma	kimum limit v	aries depend	ing on the a	ctuator.)			
Acceleration setting				0.01 G	i ~ (The maxii	mum limit va	ries dependin	g on the act	uator.)			
Program language						Supe	r SEL					
Number of programs						6	4					
Number of program steps						6,000	(total)					
Number of multi-tasking programs						1	6					
Number of positions						4,000	(total)					
Data storage device					Flash	n ROM + SRAI	M backup bat	tery				
Data input method						Teaching pe	ndant or PC					
Standard I/Os			1 of PIO boa	rd with 48 I/O	points (NPN/	PNP) or PIO b	ooard with 96	I/O points (N	NPN/PNP) can	be installed.		
Expansion I/Os		Up to	o 3 of PIO boa	ard with 48 I/0	points (NPN	/PNP) and/or	PIO board wi	th 96 I/O poi	ints (NPN/PNF) can be insta	alled.	
Serial communication function	Standard teaching port (D-sub, 25-pin) + 2-channel RS232C port (D-sub, 9-pin x 2)											
Protective functions	Motor overcurrnet, overload, motor/driver temperature check, overload check,											
	encoder open detection, soft limit overtravel, system error, battery error											
Surrounding air temperature/humidity, ambience			01	to 40°C, 10 to	95% (non-coi	ndensing); fre	e from corros	ive gases or	significant du	st.		
Weight (*2)			5.2kg			5.7kg			4.5kg			5kg
Accessory						I/O flat	cable					

^{*1} When axes corresponding to the maximum wattage are connected.

^{*2} Including the absolute battery, brake mechanism and expansion I/O box.



External Dimensions

■ J (Small Type)/K (General-purpose Type)

	1-axis specification	2-axis specification	3/4-axis specification	Side view
J type (Small type)	159.4 143.4 120 2-95	1919 1759 120 120 120 120 120 120 120 120 120 120	296.8 35.9 112.5 112.5 35.9 3-05	(80) 125.3
	1/2-axis sp	ecification	3/4-axis specification	8 I [A]
K type (General-purpose type)	347 150 3-05 347 3-05		454.4 3-95 150 150 77.2 150 77.2 150 77.2	Battery box (ABS specification)

■ P (Large-capacity Standard Type)/Q (Large-capacity Global Type)

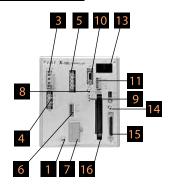
The shapes and dimensions of SEL-P/Q types vary depending on the controller specifications (encoder type, with/without brake, and with/without I/O expansion).

The following four shapes are available. Check the applicable dimensions based on the desired type and number of axes to be connected.

		Base shape (incremental specification)	With brake/absolute unit	With I/O expansion base	With brake/absolute unit + I/O expansion base	Side view
	Encoder	Incremental	Absolute	Incremental	Absolute	
Controller specification	Brake	Not equipped	Equipped	Not equipped	Equipped	
Specification	I/O	Standard only	Standard only	Standard + Expansion	Standard + Expansion	
P type	1 to 4-axis specification	49.5 75 77 49.5	59.5 75 79 59.5 59.5 75 75 59.5 10 269 15 285	41 120 120 41 	51 120 120 51 50 342 15 358	
(Large- capacity)	5 to 6-axis specification	22 120 120 22 120 22 120 22 120 320 120 320	42 120 120 42 	58.5 120 120 58.5 58.8 2 120 120 58.5 35.7 1.5 373	78.5 120 120 78.5 2 2 2 397 5 413	(80) 125.3 (80) 125.3
Q type (Large capacity conforming	1 to 4-axis specification	28 75 75 28 50 88 88 8 20 10 10 10 10 10 10 10 10 10 10 10 10 10	38 75 75 38 38 75 75 38 38 75 75 38 7 226 15 242	64.5, 75, 75, 64.5 68.8 279 5	29.5 120 120 29.5 50 88 8 299 15 315	Battery box (ABS specification)
to safety standard) * The dimensions of single-phase 200-VAC controllers conform to those of the P type.	5 to 6-axis specification	45.5, 75 75 45.5	20.5 120 120 20.5 20.5 120 120 20.5 20.5 120 20.5 20.5 120 20.5	37, 120 120 37, 120 37	57 120 120 57 58 8 8 354 15 370	

Name of Each Part

J Type (Small)



1 FG connection terminal

A connection edge to connect the FG terminal of the enclosure. This terminal is connected to the PE terminal of the AC input part internally through the controller.

2 Fuse holder (K type only)

A half-cut fuse holder for protecting the AC input part from overcurrent.

3 Main-power input connector

A connector for 100/200-VAC single-phase input. (This connector comes with a cable-end plug. Refer to the right page.)

4 Regenerative-resistor unit connector

This connector is used to connect the regenerative resistor unit (optional: REU-1) that may be required if the built-in regenerative connector is not enough due to high acceleration, high load, etc.

5 Motor cable connector

A connector for the motor power cable of the actuator motor.

6 Actuator-sensor input connector

A connector for the LS, CREEP, OT and other axis sensors.

7 Absolute-data backup battery

A battery unit for backing up the absolute encoder if used. This battery is not connected to non-absolute axes.

8 Brake release switch (brake specification only)

An alternate switch with lock for releasing the axis brake. To operate this switch, pull the switch toward you and then tilt it to a desired position. Tilt the switch to the top (RLS) position to forcibly release the brake, or tilt it to the bottom (NOM) position to let the controller control the brake automatically.

9 Axis-driver status LEDs

These LEDs are used to monitor the operating status of the driver CPU that controls the motor drive.

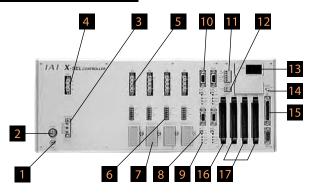
The following three LEDs are provided.

	Name	Color	Meaning when the LED is lit			
	ALM	Orange	The driver has detected an error.			
	SVON	Green	The servo is ON and the motor is being driven.			
BATT ALM Orange The absolute battery voltage is low		The absolute battery voltage is low				

10 Encoder cable connector

This 15-pin, D-sub connector is used to connect the encoder cable of the actuator.

K Type (General-purpose)



11 System IO connector

This connector has a total of three I/Os including two inputs for controlling the controller operation and one output regarding the system status. (This connector comes with a cable-end plug. Refer to the right page.)

Name		
EMG	Emergency stop input	Operation is enabled when this signal is ON. An emergency stop is actuated when the signal turns OFF.
ENB	Safety gate input	Operation is enabled when this signal is ON. The servo turns OFF when the signal turns OFF.
RDY	System ready relay output	The controller status is output. Cascade connection is supported. The controller is ready when the output contacts are shorted and not ready when the contacts are open.

12 IO24V power connector (K type only)

If DI/DOs are installed in the IO slots 16, 17, this connector is used to supply the I/O power to the insulated part externally.

13 Panel window

The 4-digit 7-segment LED display and five LED lamps indicating the system status can be visually checked.

14 Mode switch

An alternate switch with lock for specifying the operation mode of the controller. To operate this switch, pull the switch toward you and then tilt it to a desired position. The top position indicates the MANU (manual operation) mode, while the bottom position indicates the AUTO (auto operation) mode. Teaching operation can only be performed in the MANU mode, and auto operation using external IOs cannot be performed in the MANU mode.

15 Teaching connector

This D-sub, 25-pin connector is used to connect a teaching pendant or PC to input program positions.

16 Standard I/O slot (slot 1)

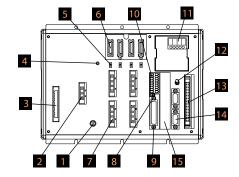
The standard PIO board with 32 input points and 16 output points is installed in this slot.

17 Expansion I/O slots (slot 2, slot 3, slot 4)

An expansion IO board (optional) can be installed in each of these slots.



P type (standard, 4-axis)



1 FG connection terminal

A connection edge to connect the FG terminal of the enclosure. This terminal is connected to the PE terminal of the AC input part internally through the controller.

2 External regeneration unit connector

This connector is used to connect an additional regenerative resistor when the built-in regenerative resistor is not enough due to high acceleration, high load, etc. Whether or not an external regenerative resistor is needed depends on the specifics of the application, such as the axis configuration.

3 AC-power input connector

A connector for 200-VAC three-phase input. This connector consists of six terminals including the motor power-supply, control power-supply and PE terminals.

The standard specification only comes with a terminal block.

Caution To prevent electric shock, do not touch this connector while the power is supplied.

4 Control power-supply monitor LED

A green light is lit while the control power supply is generating the internal controller power properly.

5 Absolute-battery enable/disable switch

This switch is used to enable or disable the encoder backup operation using the absolute battery. The factory setting is to disable the backup. Connect the encoder and axes-sensor cables, turn on the power, and then set this switch to the top position.

6 Encoder/axis-sensor connector

A connector for the actuator encoder and axis sensors such as LS, CREEP and OT. *: LS, CREEP and OT sensors are optional.

7 Motor connector

A connector for driving the motor in the actuator.

8 Teaching-pendant type selector switch

This switch is used to change the type of the teaching pendant connected to the teaching connector **9**. You can switch between IAI's standard teaching pendant and ANSI teaching pendant. Set the switch provided on the front side of the board according to the teaching pendant to be used.

9 Teaching connector

This teaching interface is used to connect IAI's teaching pendant or PC (PC software) to operate, set or otherwise manipulate the system.

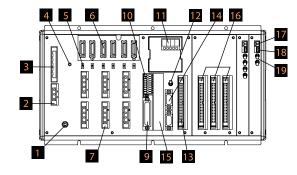
10 System I/O connector

This I/O connector controls the safety operations of the controller. With the global specification, this connector can be used, together with an external safety circuit, to configure a safety circuit meeting up to category 4.

11 Panel window

The panel window consists of the 4-digit, 7-segment LED display and five LED lamps indicating the status of the system.

Q type (with absolute brake unit + expansion base, 6-axis)



Meanings of 5 LEDs

Name	Condition when the LED is lit
RDY	The CPU is ready (to perform program operation).
ALM	A CPU alarm (system-shutdown level error) or CPU hardware error is present.
EMG	An emergency stop is actuated or CPU hardware error or power-supply hardware error is present.
PSE	A power-supply hardware error is present.
CLK	The system clock is abnormal.

12 Mode switch

An alternate switch with lock for specifying the operation mode of the controller. To operate this switch, pull the switch toward you and then tilt it to a desired position. The top position indicates the MANU (manual operation) mode, while the bottom position indicates the AUTO (auto operation) mode. Teaching operation can only be performed in the MANU mode, and auto operation using external IOs cannot be performed in the MANU mode.

13 Standard I/O connector

Overview of standard IO interface specifications

Item	Photo-coupler
Connector name	1/0
Applicable connector	Flat connector, 50-pins
Power supply	Power is supplied from connector pin Nos. 1 and 50.
Inputs	32 points (including general-purpose and dedicated inputs)
Outputs	16 points (including general-purpose and dedicated outputs)
Connected to	External PLC, sensor, etc.

14 General-purpose RS232C port connector

This port is used to connect general-purpose RS232C devices. (Two channels are provided.)

15 Field-network board slot

A fieldbus interface module is installed in this slot.

16 Expansion I/O boards (optional)

Optional expansion boards are installed in theses slots.

17 Brake-power input connector

A power input connector for driving the brake of the actuator. 24 VDC must be supplied externally. If the specified power is not supplied, the actuator brake cannot be released. Be sure to supply this power to axes with brake. For the brake power cable, use a shielded cable and connect the shield on the 24-V power supply side.

18 Brake-release switch connector

This connector is used to connect a switch that releases the actuator brake from outside the controller. The brake is released when the COM and BKMRL* terminals of this connector are shorted. Use this connector if you want to manually operate the actuator when the controller power is cut off or other abnormality is present.

19 Brake switch

An alternate switch with lock for releasing the axis brake. To operate this switch, pull the switch toward you and then tilt it to a desired position. Tilt the switch to the top (RLS) position to forcibly release the brake, or tilt it to the bottom (NOM) position to let the controller control the brake automatically.

Options

■ Regenerative Resistor Unit

Model REU-1

Description

This unit converts to heat the regenerative current produced when the motor decelerates. Although the controller has a built-in regenerative resistor, a regeneration unit or units may be required if its capacity is not enough for the vertical axis load. (Refer to the table on the right.)

Specification

Item	Specification
Dimensions	W34mm×H195mm×D126mm
Weight	0.9kg
Built-in regenerative resistor	220Ω 80W
Accessory	Controller connection cable (model: CB-ST-REU101), 1 m

Installation S	otanuarus _{acc}	ording to the total meeted vertical axes.	notor capacity of the		24			
Horizontal applic		necteu verticai axes.		1 7	34	1		
Motor wattage	P/Q type	J type	K type			1 1	•	
~200W	Not required	Not required	Not required		Comp			
~800W	1 unit	Not required	Not required			[
~1000W	1 unit	-	Not required	195	100 N	175		
~1500W	2 units	-	Not required		A -	2		
~2000W	3 units	-	-			L		
~2400W	4 units	-	-		TIS IN			
Vertical application	on				IAI	J 🗼		
Motor wattage	P/Q type	J type	K type		لباك	5	1	
~100W	Not required	Not required	Not required		***	16.6	L	126
~200W	1 unit	Not required	Not required		7	r .	-	
~400W	1 unit	1 unit	Not required					
~600W	1 unit	1 unit	1 unit					
~800W	1 unit	2 units	1 unit					
~1200W	2 units	-	2 units					
~1600W	3 units	-	Consult IAI.					

■ Absolute-data Backup Battery (for XSEL-J/K/KE/KT/KET)

Model

IA-XAB-BT

A data backup battery for absolute axes. Replace the battery as soon as the controller generates a battery alarm.

Packing specification

Individually packed. (One battery is required for one axis. Specify an appropriate quantity according to the number of axes to be used.)

■ Absolute-data Backup Battery

Model AB-5

Features

This absolute-data backup battery is used when absolute actuators are operated.



■ Expansion PIO Board

Description

This optional board is used to add I/Os (inputs/outputs).

On the general-purpose and large-capacity types, up to three expansion PIO boards can be installed in the expansion slots.

(On the small type, only one expansion PIO board can be installed in the expansion slot, provided that the controller is of 3 or 4-axis type.)

■ DeviceNet Connection Board

This board is used to connect the XSEL controller to DeviceNet.

ltem		Specif	ication					
Number of I/O points	256 input points/256	256 input points/256 output points per board * Only one board can be installed						
Communication	Certified DeviceNet 2	ertified DeviceNet 2.0 interface module (Certification per						
protocol	Group 2 only server							
	Insulation node of ne	twork-power operatio	n type					
Communication	Master-slave connec	tion	Bit strobe					
specification			Polling					
			Cyclic					
Baud rate	500k/250k/125kbps	(Switchable via DIP sv	vitches)					
Communication cable	Baud rate	Maximum network length	Maximum branch length	Total branch length				
length	500kbps	100m		39m				
	250kbps	250m	6m	78m				
	125kbps	500m		156m				
	Note) When a thick DeviceNet cable is used.							
Communication power supply	24 VDC (supplied fro	m DeviceNet)						
Current consumption of communication power supply	60 mA or more							
Number of occupied stations	1 node							
Connector	MSTBA2.5/5-G.08AUM by Phoenix Contact (*1)							

■Expansion SIO Board (for General-purpose Type Only)

ModelSpecification

4 units

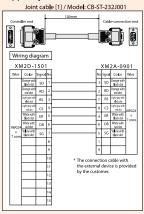
5 units

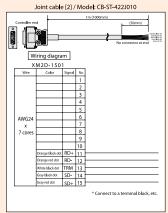
IA-105-X-MW-A (for RS232C connection) (board + joint cable [1] x 2) IA-105-X-MW-B (for RS422 connection) (board + joint cable [2] x 1) IA-105-X-MW-C (for RS485 connection) (board + joint cable [2] x 1)

~2000W

~2400W

This board is used to perform serial communication with external devices. The 2-channel port supports three communication patterns according to the supplied joint cable.





■ CC-Link Connection Board

This board is used to connect the XSEL controller to CC-Link.

Item		S	pecificati	on			
Number of I/O points	256 input points/256 ou	256 input points/256 output points per board * Only one board can be installed.					
Communication protocol	CC-Link Ver1.10 (Certifie	d)					
Baud rate	10M/5M/2.5M/625k/156	ikbps (switch	able via a rot	ary switch)			
Communication method	Broadcast polling metho	od					
Synchronization method	Frame synchronization	method					
Encoding method	NRZI						
Transmission path format	Bus format (conforming	to EIA RS485)				
Transmission format	Conforming to HDLC						
Error control method	CRC(X16+X12+X5+X1)						
Number of occupied stations	1 to 3 stations (remote	device statio	ons)				
Communication cable length	Baud rate (bps)	10M	5M	2.5M	625k	156k	
iengui	Cable length (m)	100	160	400	900	1200	
Connector (controller end)	mSTBA2.5/5-G.08AUM by Phoenix Contact (*1)						

XSEL Controllers

Options

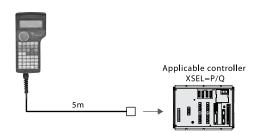
Teaching Pendant

Features A teaching device offering functions for program/ position input, test operation, monitoring, and more.

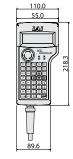
■ Model/Price

Model	Description
SEL-T	Standard type with connector conversion cable
SEL-TD	Deadman switch type with connector conversion cable

■ Configuration







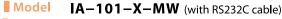


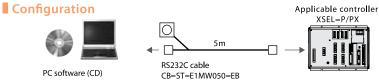
Specification

Item	SEL-T-J	SEL-TD-J
3-position enable switch	Not equipped	Equipped
ANSI/UL standard	Not compliant	Compliant
CE mark	Comp	oliant
Display	20 characte	ers x 4 lines
Surrounding air temperature/humidity	0-40°C 10-90%RH	(non-condensing)
Protection structure	IP:	54
Weight	Approx. 0.4 kg (e	excluding cables)

PC Software (Windows only)

Features A software program that assists the initial startup of your system, offering functions for program/position input, test operation, monitoring, and more. The enhanced debugging functions help reduce the startup time.

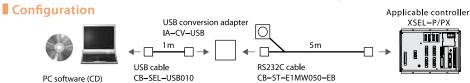


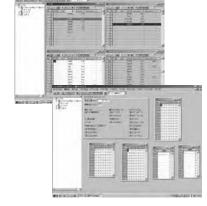


■ Model IA-101-XA-MW (with safety category 4 cable)



■ Model IA-101-X-USBMW (with USB conversion adapter + cable)

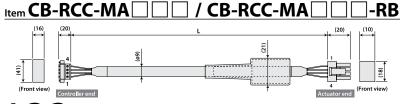




Replacement Parts

If you must order a replacement cable, etc., after the initial purchase of your product, specify the correct model by referring to the information below.

Motor Cable/Robot Motor Cable





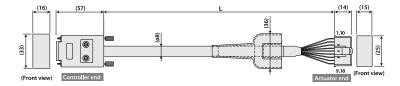
20 m can be specified. Example) 080 = 8 m

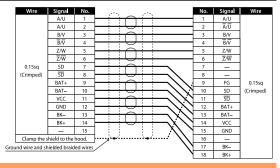
133 XSEL

Replacement Parts

Encoder Cable/Robot Encoder Cable (for XSEL-J/K types)

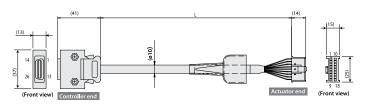
Item CB-RCBC-PA . / CB-RCBC-PA . . -RB

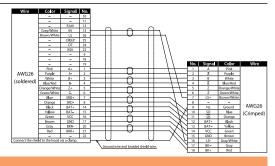




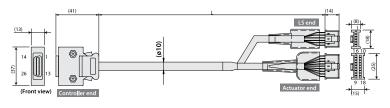
Encoder Cable/Robot Encoder Cable (for XSEL-P/Q types)

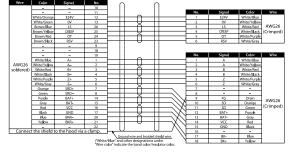
* _ _ _ indicates the cable length (L). A desired length up to 20 m can be specified. Example) 080 = 8 m





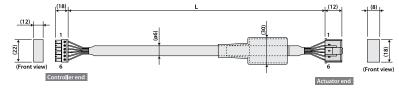
Dedicated Encoder Cable/Robot Encoder Cable for Rotary Robots





Limit Switch Cable (for X-SEL-J/K types)

Item CB-X-LC

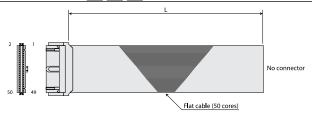


Color	Signal	No.	1	No.	Signal		Wire
Light blue	24VOUT	6		1	24VOUT	Light blue	
Pink	Ν	5		2	N	Pink	
Light green	LS	4		3	LS	Light green	AWG24
Orange	CREEP	3		4	CREEP	Orange	(Crimped)
Gray	OT	2		5	ОТ	Gray	
1B/light blue	RSV	1		6	RSV	1B/light blue	
	Light blue Pink Light green Orange Gray	Light blue 24VOUT Pink N Light LS Grange CREEP Gray OT 18/light RSV	Discolor	Light 24VOUT 6	Light 24VOUT 6	Light 24VOUT 6	Light Diue 24YOUT 6

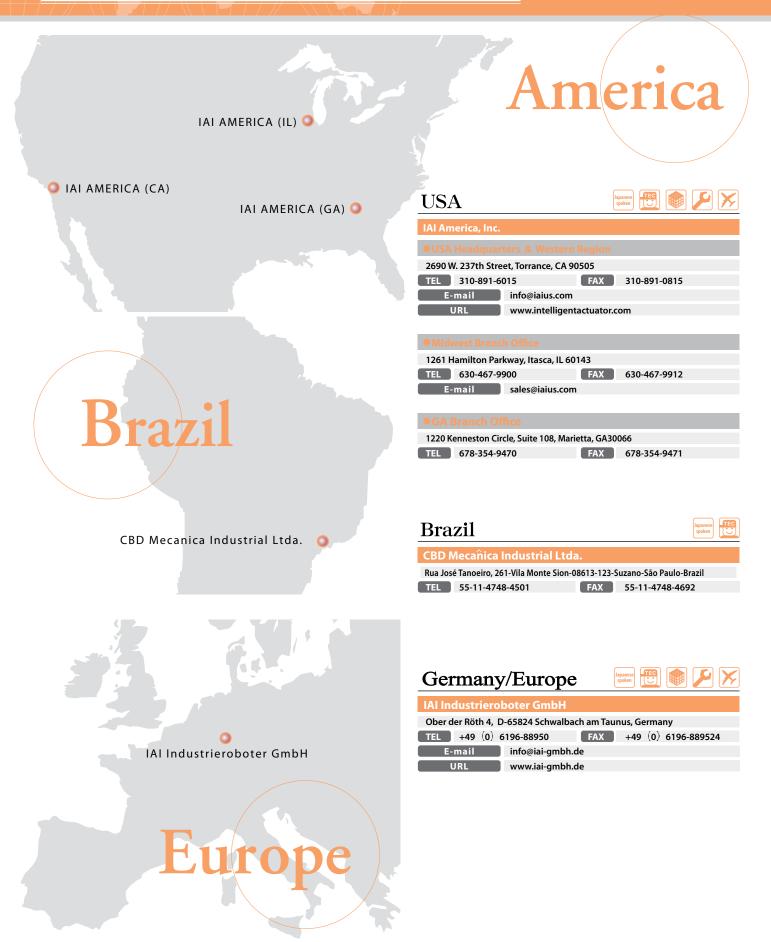
I/O Flat Cable (XSEL-J/K/P/Q types)

Item CB-X-PIO

* \(\bigcup \) indicates the cable length (L). A desired length up to 10 m can be specified. Example) 080 = 8 m



NO.	COIOI	wile	NO.	COLO	wire	INO.	COIOI	wile
1	Brown 1		18	Gray 2		35	Green 4	
2	Red 1		19	White 2		36	Blue 4	
3	Orange 1		20	Black 2		37	Purple 4	1
4	Yellow 1		21	Brown-3		38	Gray 4	1
5	Green 1		22	Red 3		39	White 4	1
6	Blue 1		23	Orange 3		40	Black 4	1
7	Purple 1		24	Yellow 3		41	Brown-5	
8	Gray 1	Flat cable	25	Green 3	Flat cable	42	Red 5	Flat cable
9	White 1	pressure-	26	Blue 3	pressure-	43	Orange 5	pressure-
10	Black 1	welded	27	Purple 3	welded	44	Yellow 5	welded
11	Brown-2		28	Gray 3		45	Green 5	
12	Red 2		29	White 3		46	Blue 5	
13	Orange 2		30	Black 3		47	Purple 5	
14	Yellow 2		31	Brown-4		48	Gray 5	1
15	Green 2		32	Red 4		49	White 5	
16	Blue 2		33	Orange 4		50	Black 5	
17	Purple 2		34	Ye ll ow 4				











Korea



IA KOREA CORP

4F, SeYoung Bldg 228-1, Poi-Dong, Kangnam-Ku, Seoul, Korea 135-260

TEL 2-578-3523

FAX 2-578-3526

URL www.iakorea.co.kr

China



IAI (SHANGHAI) CO., LTD

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

TEL 021-6448-4753

FAX 021-6448-3992

E-mail shanghai@iai-robot.com

China





- Dallan		
Dalian FENG TAI COMMERCIAL TRADE CO., LTD.		0411-8762-2104, 8761-6642,8761-0403
Room 403, No. 43, Fushun Street, Dalian	FAX	0411-8762-4677
Development Zone, Dalian 116600 China.		

FENG TAI COMMERCIAL TRADE CO.,LTD

Room4-A-706, Hou Xian Dai Building, Bai Zi Wan Road, Chao Yang District, Bei Jing, China.

010-8776-6989 010-8776-6975

022-2626-5057 Room3-8-503, Hong Ji Apartment, Jin Wei Road, 022-2626-1309 HeBei District, Tian Jin, China.

Room15-3-102, No.399 Hua Long Road, Ji Nan City, Shan Dong, China.

0531-8633-0345 0531-8633-0348

Shanghai

021-5490-0290 B/19F Building Huijia No. 37, Cao Xi N Rd, 021-5490-0314 Shanghai 200030, China.

Room.204, Building2, No.3 Xiang Xue Hai Rd, Su Zhou City, Jiang Su, China.

0512-6552-9859 0512-6532-5672

Room.101, Building 1, No.2, Jin Yang Garden, Xin Zha Rd, Kunsha City, Jiang Su, China

0512-5739-3766 0512-5739-5320

■ Guangzhou FEDERAL WORLD WIDE (GUANGZHOU)

020-8363-3200 020-8363-3705

Room 1701, Yian Plaza No. 33, Jian She Lu Ma Road, Yuexiu Distgrict Guang Zhou 510060, China.

Room B 19/F Block West Shun Tian Plaza, 62 Gui Miao Road, Nan Shan District,

0755-26475242 0755-26475177

Shenzhen,China.

0769-8539-0221 Room L2 /F Hao Jing Ting, Jing Jiang Gargen, Jin Xing Rd, Jin Xia Village, Changan Town, 0769-8539-0170 Dong Guan, China.

Dongguan

nation Equipment Co., Ltd Unit 01,2F,Nanbo Commerce Plaza,Z hangmutouTown, Dongguan City, Guangdong Province, China.

0769-87790095 0769-87788795

0756-221-8650 WORLD WIDE (H:K) CO., LTD Zhu Hai Shi, Xiang Zhou Qu, Cui Hua Lu 22#, Cai Yuan Hua Yuan 1 Dong 1303#

Unit 2-3, 7/F., International Plaza 20 Sheung Yuet Rd., Kowloon Bay, Kowloon, HK. 0756-221-8670

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FAX 02-261-2813

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FAX 3-2121250

Malaysia





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B-901, 9th Fl., Block B, Phileo Damansara II, 15, Jalan 16/11, Off Jln Damansara, 46350 Petaling Jaya, Malaysia

TEL 603-7547386

FAX 603-7547336

Singapore/Philippines/Indonesia/India





INTELLIGENT ACTUATORS SYSTEMS SINGAPORE PTE LTD. 19 Tannery Road Singapore 347730

TEL 6842-4348

FAX 6842-3646

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IAI America, Inc.

Head Office: 2690 W. 237th Street, Torrance, CA 90505 Chicago Office: 1261 Hamilton Parkway, Itasca, IL 60143 Atlanta Office: 1220 Kennestone Circle, Suite 108, Marietta, GA 30066

IAI (Shanghai) Co., Ltd.

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

Home page: www.intelligentactuator.com



IAI Industrieroboter GmbH

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