

Cartesian RCP6 RoboCylinder System

GB

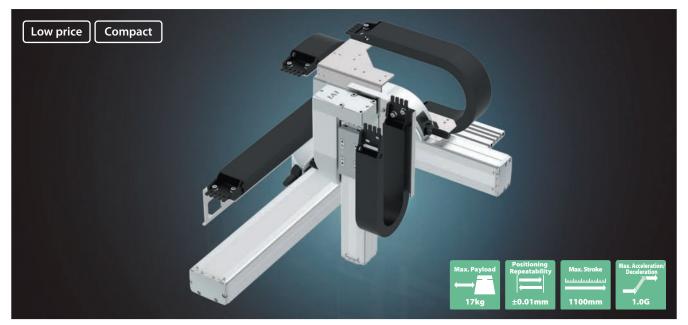


www.robocylinder.de

Cartesian RoboCylinder have never been more affordable.

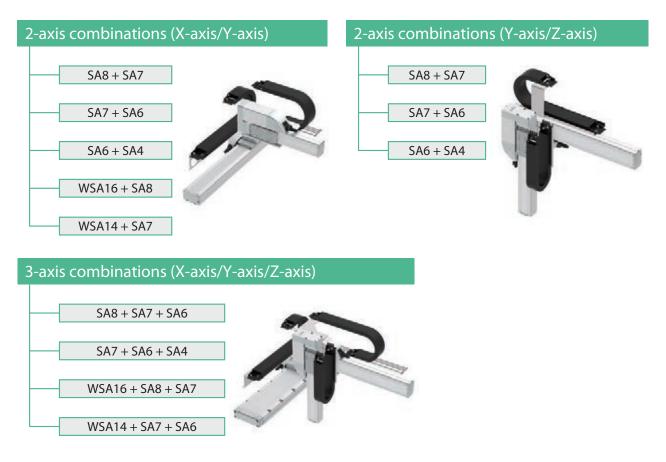
The RoboCylinder equipped as standard with a Battery-less Absolute Encoder has been added to the "IK Series". It helps reduce the design and assembly steps.

The RoboCylinder RCP6 Series has been adopted to achieve even higher speeds compared with conventional models.



Diverse Combinations

The available combinations have been greatly expanded from the conventional models, allowing the ideal selection to suit your needs from 396 options. (7056 options including the cable track selection) New configuration types using the RCP6 wide slider type (WSA) have been added.



P Equipped with high resolution Battery-less Absolute Encoder as standard.

Equipped as standard with Battery-less Absolute Encoder for all configuration axes. No battery maintenance is required since there is no battery. Homing operation is not required at startup or after emergency stop or malfunction. This reduces your operation time, resulting in reduced production costs.

No Battery-less Absolute Encoder No Battery, No Maintenance, No Homing, and No Price Increase. No Going Back to Incremental.

The advantages of using an absolute encoder.

- (1) With an absolute encoder, home return is not required.
- (2) No external home sensor is required since home return is not necessary.
- (3) Removal of workpieces is not necessary, even after an emergency stop.
- (4) The troublesome creation of home-return programs is not necessary even when stopping inside of a complex machine.

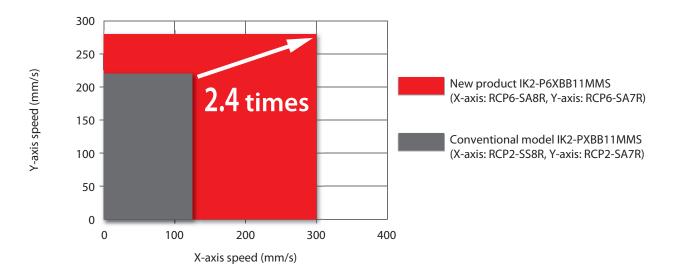
The advantages of battery-less.

- (1) No battery maintenance required.
- (2) No installation space for battery required.



Higher Speed

Compatible with PowerCon which is equipped with a high-output driver. The maximum speed has been increased with the use of PowerCon. This can reduce cycle time and help improve productivity.



2-axis combinations

3-axis combinations Configuration Type Descriptions

Each configuration pattern is available with an extensive range of sizes from light load to heavy load and short stroke to long stroke. Select the optimal model for your application.

XYB (Y-axis base mount) type



A basic configuration type in which the base of the Y-axis is fixed to the X-axis slider. It is operated by fixing equipment or a Z-axis on the Y-axis slider.

Point 1

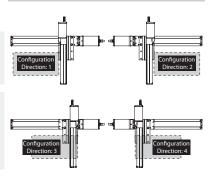
Select from 4 patterns of Y-axis configuration directions. (See the figure at right)

Point 2

A cable track can be selected for Y-axis wiring. Select the cable track size from a maximum of 4 different sizes. You can also select a cable track for wiring by the user.

→ 2-axis combinations IK2-P6XB: p5~34

Configuration Direction



YZB (Z-axis base mount) type



For this type, the base of the Z-axis (vertical axis) is fixed to the Y-axis slider with the Y-axis side-mounted. The Z-axis slider moves vertically, allowing mounting of jigs or chucks for transport, raising, or lowering of workpieces.

Point 1

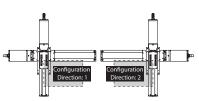
Select from 2 patterns of Z-axis configuration directions. (See the figure at right)

Point 2

A cable track can be selected for Z-axis wiring. Select the cable track size from a maximum of 4 different sizes. You can also select a cable track for wiring by the user.

→ 2-axis combinations IK2-P6YB: p35~52

Configuration Direction



XYB (Y-axis base mount) + Z-axis base mount type



For this type, the base surface of the Z-axis is fixed to the Y-axis slider of XYB type (Y-axis base is fixed to X-axis slider).

Point 1

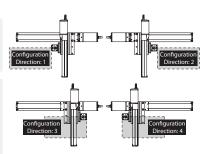
The Z-axis body is fixed and the slider moves vertically.

Point 2

Cable tracks can be selected for Y-axis and Z-axis wiring. Select the cable track size from a maximum of 4 different sizes. You can also select a cable track for wiring by the user.

→ 3-axis combinations IK3-P6BB: p53~82

Configuration Direction



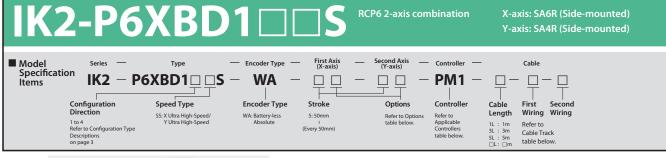
Cartesian RoboCylinder

RoboCy	linder 2-axis	Combinations
	IK2-P6XBD1□□S	5
	IK2-P6XBD2□□S	7
	IK2-P6XBD3□□S	9
	IK2-P6XBC1□□S	11
	IK2-P6XBC2□□S	13
	IK2-P6XBC3□□S	15
	IK2-P6XBB1□□S	17
	IK2-P6XBB2□□S	19
	IK2-P6XBB3□□S	21
	IK2-P6XBF1□□S	23
	IK2-P6XBF2□□S	25
IK2	IK2-P6XBF3□□S	27
Pulse Motor	IK2-P6XBE1□□S	29
	IK2-P6XBE2□□S	31
	IK2-P6XBE3□□S	33
	IK2-P6YBD1□□S	35
	IK2-P6YBD2□□S	37
	IK2-P6YBD3□□S	39
	IK2-P6YBC1□□S	41
	IK2-P6YBC2□□S	43
	IK2-P6YBC3□□S	45
	IK2-P6YBB1□□S	47
	IK2-P6YBB2□□S	49
	IK2-P6YBB3□□S	51

RoboCy	/linder 3-axis C	ombi	nations
	IK3-P6BBC1□□S	53	
	IK3-P6BBC2□□S	55	
	IK3-P6BBC3□□S	57	
	IK3-P6BBB1□□S	59	
	IK3-P6BBB2	61	
IK3	IK3-P6BBB3	63	122
Pulse Motor	IK3-P6BBF1□□S	65	
	IK3-P6BBF2□□S	67	
	IK3-P6BBF3□□S	69	
	IK3-P6BBE1□□S	71	
	IK3-P6BBE2□□S	73	
	IK3-P6BBE3□□S	75	

Options	
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77





Payload by Acceleration SS type: X ultra high-speed/Y ultra high-speed (Unit: 1					
Y-axis stroke (mm) Acceleration/ deceleration (G)	50~150 (Every 50mm)				
0.1	3				
0.3	3				
0.5	2				
0.7	1				

* When both X and Y axes have the same acceleration/deceleration.

When there is significant vibration, decrease the speed and acceleration/deceleration as required.

The photograph above shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length

RoHS

Туре	Cable code	Length						
	1L	1m						
Standard type	3L	3m						
	5L	5m						
		Specified length (15m max.)						

Note 1. All-axis standard cable is used.

Note 2. The length of the second axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified

in 1m increments up to 15m.

Cable Track

Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ		0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0
Cable track L size (inner width: 63mm)	CTL	See P.79	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be

* Only the first wiring can be selected

Specifications Item X-axis Y-axis RCP6-SA6R RCP6-SA4R Axis model Maximum Stroke 50~800mm 50~150mm Stroke (Every 50mm) Max. speed 640mm/s 560mm/s (X axis) 800 mm Yaxis 150 mm 42 Pulse motor 35 Pulse motor Motor size Ball screw lead 20mm 16mm Ball screw ø10mm Ball screw ø8mm Drive system Max. Speed (Ultra High-speed type) rolled C10 rolled C10 Positioning repeatability ±0.01mm (X axis 640 mm/s) Y axis 560 mm/s Base material Aluminum Ambient operating 0~40°C, 85% RH or less (non-condensing) temperature, humidity

* The max. speed may not be reached if the travel distance is short or acceleration is low.

Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

dedicated catalog or manual.

Applicable Controllers

MCON-LC/LCG (coming soon)

MSEL-PC/PG

Ontions

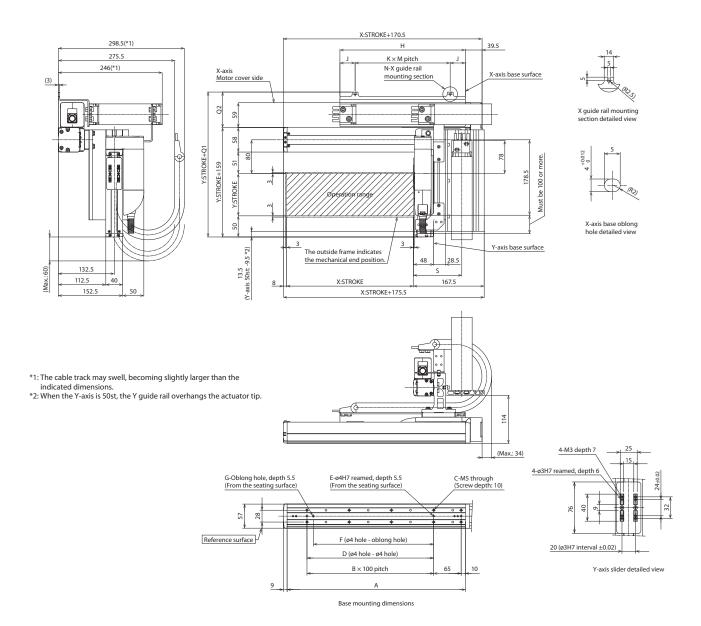
Applicable controllers		options				
Controllers are sold separately. Please contact IAI for more informat	Туре	Option code	Reference page	X-axis	Y-axis	
	Brake	В	See P.77	0	0	
🗆 X-axis: SA6R, Y-axis: SA4R	🗆 X-axis: SA6R, Y-axis: SA4R		NM	See P.78	0	0
Туре	Reference page	Slider roller specification	SR	See P.78	0	0
PCON-CB/CGB						
PCON-CYB/PLB/POB (coming soon)						
MCON-C/CG						

Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

IK2-P6XBD1



Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*) Notes

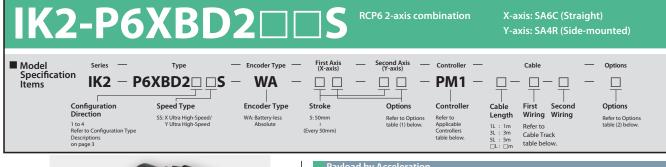
The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer.

Also, the moving end of the Y-axis cable track is to be fixed to a plate or the like mounted on the Y-axis slider by the customer. (See P.79)

Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	172	222	272	322	372	422	472	522	572	622	672	722	772	822	872	922
В	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	172	197	222	247	272	297	322	347	372	397	422	447	472	497	522	547
J	23.5	36	23.5	36	23.5	36	61	23.5	36	48.5	26	23.5	36	48.5	61	48.5
К	1	1	1	1	1	1	1	3	3	2	2	2	2	2	2	3
М	125	125	175	175	225	225	200	100	100	150	185	200	200	200	200	150
N	2	2	2	2	2	2	2	4	4	3	3	3	3	3	3	4
					1											
Cable track size	CT	CTM	CTL	CTXL												

Q1 243 256 269 286 Q2 84 97 110 127 S 114.5 121 127.5 -





SS type: X ultra high-speed/Y ultra high-speed (Unit:)					
Y-axis stroke (mm) Acceleration/ deceleration (G)	50~150 (Every 50mm)				
0.1	3				
0.3	3				
0.5	2				
0.7 1					

When there is significant vibration, decrease the speed and acceleration/deceleration as required.

The photograph above shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length

RoHS

easie Lengen							
Туре	Cable code	Length					
	1L	1m					
Standard type	3L	3m					
	5L	5m					
		Specified length (15m max)					

Note 1. All-axis standard cable is used.

Specifications

Note 2. The length of the second axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified

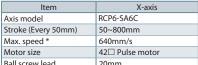
in 1m increments up to 15m.

Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ		0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0
Cable track L size (inner width: 63mm)	CTL	See P.79	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *

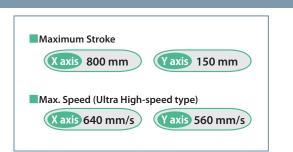
* Only the first wiring can be selected

Cable Track

Options (1)



ltem	X-axis	Y-axis			
Axis model	RCP6-SA6C	RCP6-SA4R			
Stroke (Every 50mm)	50~800mm	50~150mm			
Max. speed *	640mm/s	560mm/s			
Motor size	42 Pulse motor	35 Pulse motor			
Ball screw lead	20mm	16mm			
Drive system	Ball screw ø10mm rolled C10	Ball screw ø8mm rolled C10			
Positioning repeatability	±0.01mm				
Base material	Aluminum				
Ambient operating temperature, humidity	0~40°C, 85% RH or less (non-condensing)				



* The max. speed may not be reached if the travel distance is short or acceleration is low.

Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information.

🗆 X-axis: SA6C, Y-axis: SA4R

Туре	Reference page
PCON-CB/CGB	
PCON-CYB/PLB/POB (coming soon)	Please see the
MCON-C/CG	dedicated catalog or manual.
MCON-LC/LCG (coming soon)	acticated eatilog of manual.
MSEL-PC/PG	

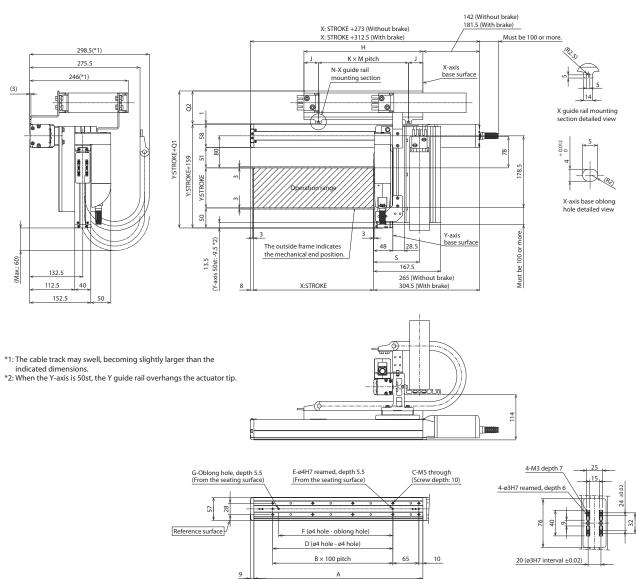
* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Туре	Option code	Reference page	X-axis	Y-axis
Brake	В	See P.77	0	0
Cable exit direction (Top)	CJT	See P.77	0	
Cable exit direction (Right)	CJR	See P.77	0	Cannot be
Cable exit direction (Left)	CJL	See P.77	0	selected
Cable exit direction (Bottom)	CJB	See P.77	0	
Non-motor end specification	NM	See P.78	0	0
Slider roller specification	SR	See P.78	0	0

Options (2)		
Туре	Option code	Reference page
Foot plate	FTP	See P.77



Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



Base mounting dimensions

Y-axis slider detailed view

(*) Notes

The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer. When the foot plate option is selected, the unit will be shipped fixed on the foot

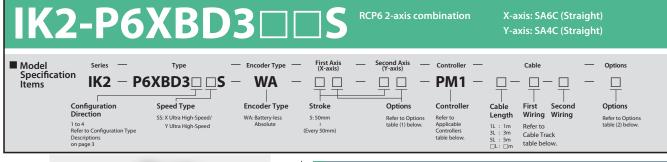
plate. (See P.77)

Also, the moving end of the Y-axis cable track is to be fixed to a plate or the like mounted on the Y-axis slider by the customer. (See P.79)

Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	172	222	272	322	372	422	472	522	572	622	672	722	772	822	872	922
В	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	172	197	222	247	272	297	322	347	372	397	422	447	472	497	522	547
J	23.5	36	23.5	36	23.5	36	61	23.5	36	48.5	26	23.5	36	48.5	61	48.5
K	1	1	1	1	1	1	1	3	3	2	2	2	2	2	2	3
М	125	125	175	175	225	225	200	100	100	150	185	200	200	200	200	150
N	2	2	2	2	2	2	2	4	4	3	3	3	3	3	3	4
Cable track size	CT	CTM	CTL	CTXL												

268 285 109 126 242 255 83 114.5 Q2 96 109 121 127.5





Payload by Acceleration SS type: X ultra high-speed/Y ultra high-speed (Unit: kg								
50~150 (Every 50mm)	(one kg							
3								
3								
2								
1								
	peed/Y ultra high-speed 50~150 (Every 50mm) 3 3							

When there is significant vibration, decrease the speed and acceleration/deceleration as required.

The photograph above shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length

RoHS

Type	Cable code	Length
	1L	1m
Chan doud huma	3L	3m
Standard type	5L	5m
		Specified length (15m max.)

Note 1. All-axis standard cable is used.

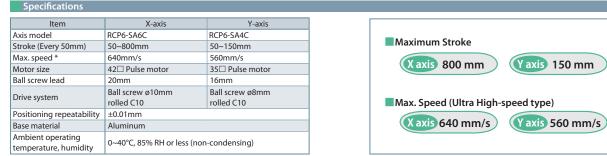
Note 2. The length of the second axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track.

Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ		0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0
Cable track L size (inner width: 63mm)	CTL	See P.79	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *

* Only the first wiring can be selected

Cable Track



* The max. speed may not be reached if the travel distance is short or acceleration is low.

Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information.

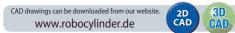
🗆 X-axis: SA6C, Y-axis: SA4C

Туре	Reference page				
PCON-CB/CGB					
PCON-CYB/PLB/POB (coming soon)	Please see the				
MCON-C/CG	dedicated catalog or manual.				
MCON-LC/LCG (coming soon)					
MSEL-PC/PG					

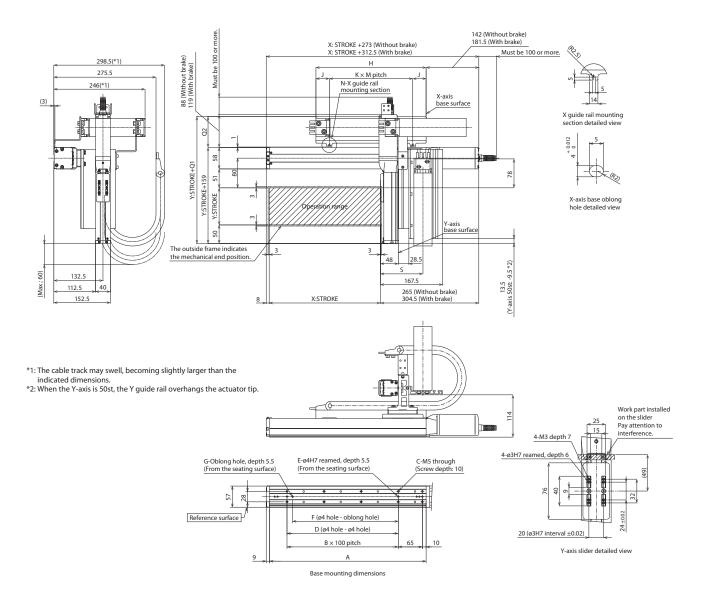
* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Options (1)				
Туре	Option code	Reference page	X-axis	Y-axis
Brake	В	See P.77	0	0
Cable exit direction (Top)	CJT	See P.77	0	
Cable exit direction (Right)	CJR	See P.77	0	Cannot be
Cable exit direction (Left)	CJL	See P.77	0	selected
Cable exit direction (Bottom)	CJB	See P.77	0	
Non-motor end specification	NM	See P.78	0	0
Slider roller specification	SR	See P.78	0	0
	÷	·		

Options (2)		
Туре	Option code	Reference page
Foot plate	FTP	See P.77



Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*) Notes

The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer.

When the foot plate option is selected, the unit will be shipped fixed on the foot plate. (See P.77)

Also, the moving end of the Y-axis cable track is to be fixed to a plate or the like mounted on the Y-axis slider by the customer. (See P.79)

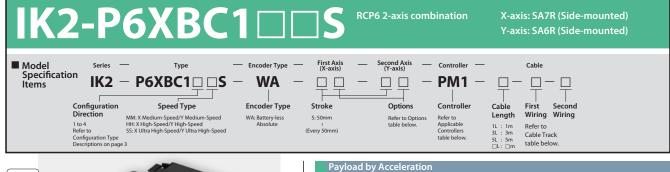
Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	172	222	272	322	372	422	472	522	572	622	672	722	772	822	872	922
В	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
С	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	172	197	222	247	272	297	322	347	372	397	422	447	472	497	522	547
J	23.5	36	23.5	36	23.5	36	61	23.5	36	48.5	26	23.5	36	48.5	61	48.5
К	1	1	1	1	1	1	1	3	3	2	2	2	2	2	2	3
М	125	125	175	175	225	225	200	100	100	150	185	200	200	200	200	150
N	2	2	2	2	2	2	2	4	4	3	3	3	3	3	3	4
Cable track size	CT	CTM	CTL	CTXL												

 Q1
 242
 255
 268
 285

 Q2
 83
 96
 109
 126

 S
 114.5
 121
 127.5





MM type: X medium-	MM type: X medium-speed/Y medium-speed (Unit: kg)										
Y-axis stroke Acceleration/ (mm) deceleration (G)		n)	150		200						
0.1	9		8		6						
0.3	9		8		б						
0.5		7									
0.7			6								
1			4								
HH type: X high-speed	HH type: X high-speed/Y high-speed SS type: X ultra high-speed/Y ultra high-speed										
Y-axis stroke Acceleration/ (mm) deceleration (G)	50~200 (Every 50mm)	Accelera	Y-axis stroke ation/ (mm) ation (G)	50	100~200 (Every 50mm)						
0.1	5		0.1		4						

0.3

ence

3

2

First wiring

(X-axis lateral)

0

0

2.5

1.5

Second wiring

(Y-axis lateral)

0

0

Cannot be

selected *

The photograph above shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length

Specifications ltem

Stroke (Every 50mm)

Axis model

Max. speed *

Motor size

Ball screw

Drive system

Base material

Ambient operating

temperature, humidity

Positioning repeatability

lead

Туре	Cable code	Length		
	1L	1m		
Cham day day a	3L	3m		
Standard type	5L	5m		
		Specified length (15m max.)		

Note 1. All-axis standard cable is used. Note 2. The length of the second axis cable is from the exit of the cable track.

A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

X-axis

RCP6-SA7R

50~800mm

280mm/s

560mm/s

640mm/s

8mm

16mm

24mm

rolled C10

±0.01mm

Aluminum

56 Pulse motor

Ball screw ø12mm

Y-axis

RCP6-SA6R

50~200mm

400mm/s

680mm/s

800mm/s

6mm

12mm

20mm

rolled C10

42 Pulse motor

Ball screw ø10mm

MM

ΗH

SS

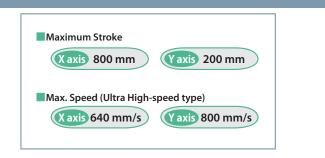
MM

HH

SS

* Only the first wiring can be selected

Cable track XL size (inner width: 80mm) *



CTXL

* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information.

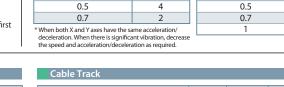
🗆 X-axis: SA7R, Y-axis: SA6R

Туре	Reference page		
PCON-CB/CGB			
PCON-CYB/PLB/POB (coming soon)	Please see the		
MCON-C/CG	dedicated catalog or manual.		
MCON-LC/LCG (coming soon)	acticated catalog of mandal.		
MSEL-PC/PG			

0~40°C, 85% RH or less (non-condensing)

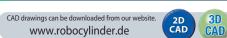
* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Option code	Reference page	X-axis	Y-axis
В	See P.77	0	0
NM	See P.78	0	0
SR	See P.78	0	0
	B	Option code page B See P.77 NM See P.78	Option code page X-axis B See P.77 O NM See P.78 O

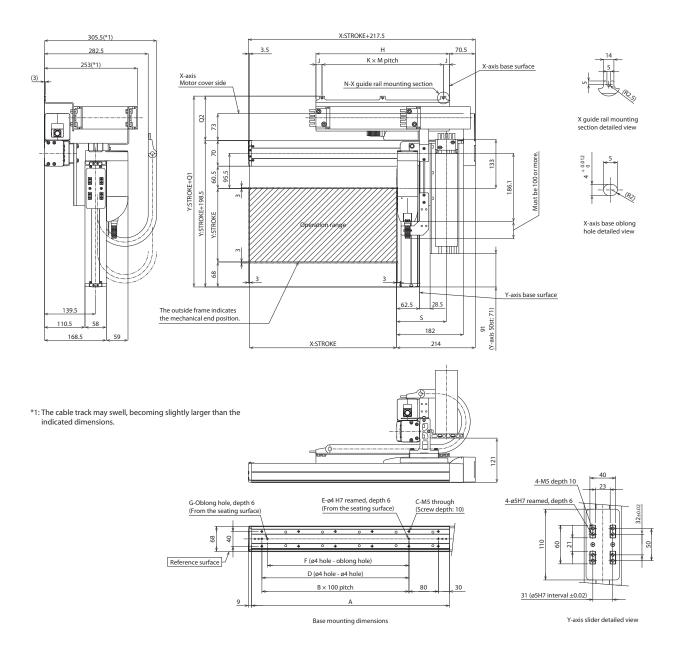


	Cable Track		
gth			Deferrer
m	Туре	Model	Referen page
m			page
m	Without cable track (cable only)	N	
th (15m max.)	Cable track S size (inner width: 38mm)	СТ	
	Cable track M size (inner width: 50mm)	СТМ	See
ie cable track.	Cable track L size (inner width: 63mm)	CTL	P.79

0.3



Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*) Notes

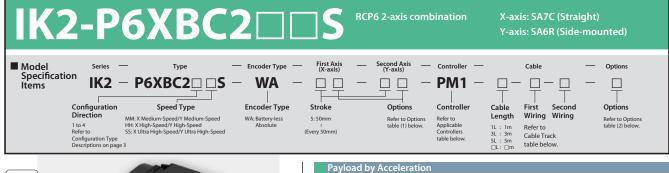
The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer.

Also, the moving end of the Y-axis cable track is to be fixed to a plate or the like mounted on the Y-axis slider by the customer. (See P.79)

Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	188	238	288	338	388	438	488	538	588	638	688	738	788	838	888	938
В	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	0	0	100	200	200	300	300	400	400	500	500	600	600	700	700	800
E	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	188	213	238	263	288	313	338	363	388	413	438	463	488	513	538	563
J	16.5	16.5	14	16.5	16.5	16.5	14	16.5	14	16	15	66.5	44	56.5	69	16
К	1	1	1	2	2	2	2	2	2	3	3	3	2	2	2	3
М	155	180	210	115	127.5	140	155	165	180	127	136	110	200	200	200	177
Ν	2	2	2	3	3	3	3	3	3	4	4	4	3	3	3	4
Cable track size	CT	CTM	CTL	CTXL												
01	204	210	222	240												

Q1 306 319 332 349 Q2 107.5 120.5 133.5 150.5 S 129 135.5 142 -





Acceleration/ (IIII deceleration (G)	(Every 50r	mm)	150)		200
0.1	9		8			6
0.3	9		8			б
0.5		7	7			6
0.7			6			
		4				
	 // high grood		un o. V. ulturo I	aigh cha	ad/Vultur	high space
1 HH type: X high-speec Y-axis stroke Acceleration/ (mm) deceleration (G)	l/Y high-speed 50~200 (Every 50mm)	Accelera	Y-axis s		ed/Y ultra	high-speed 100~200 (Every 50mm)
Y-axis stroke Acceleration/ (mm)	50~200	Accelera	Y-axis s	stroke		100~200
Y-axis stroke Acceleration/ (mm) deceleration (G)	50~200	Accelera	Y-axis s ation/ ation (G)	stroke	50	100~200
Y-axis stroke Acceleration/ (mm) deceleration (G) 0.1	50~200	Accelera	Y-axis s ation/ ation (G) 0.1	stroke	50	100~200 (Every 50mm) 4

50~100

(Unit: kg)

MM type: X medium-speed/Y medium-speed

Y-axis stroke

* When both X and Y axes have the same acceleration/ deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

The photograph above shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length							
Туре	Cable code	Length					
	1L	1m					
Standard type	3L	3m					
Stanuaru type	5L	5m					
		Specified length (15m max.)					

Note 1. All-axis standard cable is used. Note 2. The length of the second axis cable is from the exit of the cable track.

A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified

in 1m increments up to 15m.

Specifications

		V auda	V auto		
ltem		X-axis	Y-axis		
Axis model		RCP6-SA7C	RCP6-SA6R		
Stroke (Every 50n	nm)	50~800mm	50~200mm		
	MM	280mm/s	400mm/s		
Max. speed *	HH	560mm/s	680mm/s		
	SS	640mm/s	800mm/s		
Motor size		56 Pulse motor	42 Pulse motor		
Ball screw	MM	8mm	6mm		
lead	HH	16mm	12mm		
leau	SS	24mm	20mm		
Drive system		Ball screw ø12mm rolled C10	Ball screw ø10mm rolled C10		
Positioning repeatability		±0.01mm			
Base material		Aluminum			
Ambient operatir temperature, hur		0~40°C, 85% RH or less (non-condensing)			

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information.

🗆 X-axis: SA7C, Y-axis: SA6R

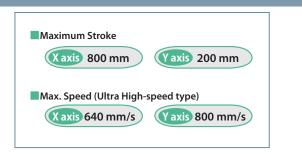
Туре	Reference page
PCON-CB/CGB	
PCON-CYB/PLB/POB (coming soon)	Please see the
MCON-C/CG	dedicated catalog or manual.
MCON-LC/LCG (coming soon)	acalcated catalog of manual.
MSEL-PC/PG	

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Cable Track				
Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ		0	0
Cable track M size (inner width: 50mm)	СТМ	See	0	0
Cable track L size (inner width: 63mm)	CTL	P.79	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *

1

* Only the first wiring can be selected



* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Options (1)

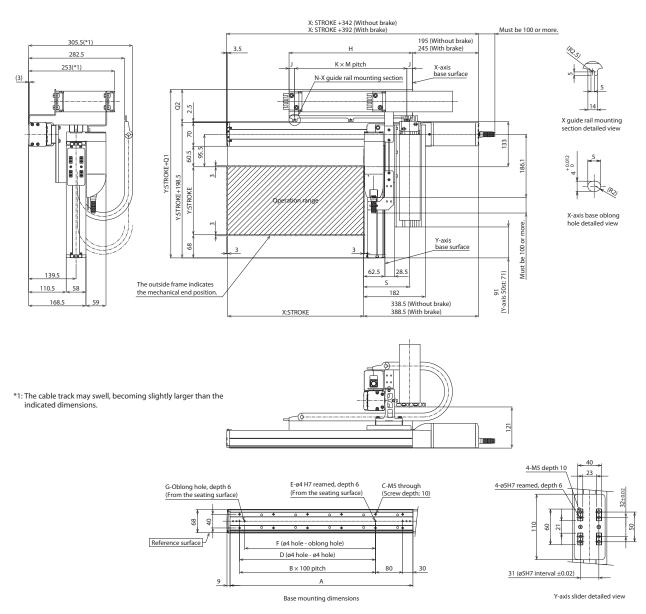
Туре	Option code	Reference page	X-axis	Y-axis
Brake	B	See P.77	0	0
Cable exit direction (Top)	CJT	See P.77	0	
Cable exit direction (Right)	CJR	See P.77	0	Cannot be
Cable exit direction (Left)	CJL	See P.77	0	selected
Cable exit direction (Bottom)	CJB	See P.77	0	
Non-motor end specification	NM	See P.78	0	0
Slider roller specification	SR	See P.78	0	0

Options (2)

options (2)							
Туре	Option code	Reference page					
Foot plate	FTP	See P.77					



Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*) Notes

The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer. When the foot plate option is selected, the unit will be shipped fixed on the foot

plate. (See P.77)

Also, the moving end of the Y-axis cable track is to be fixed to a plate or the like mounted on the Y-axis slider by the customer. (See P.79)

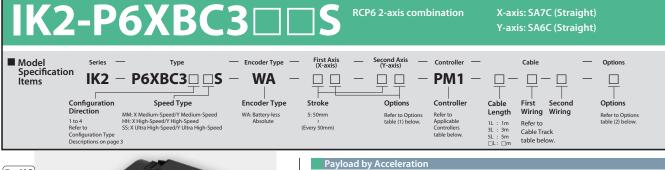
Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	188	238	288	338	388	438	488	538	588	638	688	738	788	838	888	938
В	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	0	0	100	200	200	300	300	400	400	500	500	600	600	700	700	800
E	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	188	213	238	263	288	313	338	363	388	413	438	463	488	513	538	563
J	16.5	16.5	14	16.5	16.5	16.5	14	16.5	14	16	15	66.5	44	56.5	69	16
К	1	1	1	2	2	2	2	2	2	3	3	3	2	2	2	3
М	155	180	210	115	127.5	140	155	165	180	127	136	110	200	200	200	177
N	2	2	2	3	3	3	3	3	3	4	4	4	3	3	3	4
Cable track size	CT	CTM	CTL	CTXL												

 283
 296
 309
 326

 84.5
 97.5
 110.5
 127.5

 129
 135.5
 142
 Q2





Y-axis stroke Acceleration/ (mm) deceleration (G)		-	150		200			
0.1	9		8		6			
0.3	9		8		6			
0.5		7						
0.7		6						
1			4					
HH type: X high-speed	Y high-speed	SS t	ype: X ultra high-sp	beed/Y	ultra high-speed			
Y-axis stroke Acceleration/ (mm) deceleration (G)	50~200 (Every 50mm)	Accelera	Y-axis stroke ation/ (mm) ation (G)	50	100~200 (Every 50mm)			
0.1	5		0.1		4			
0.3	5		0.3		4			

0.5

0.7

1

3

2

(Unit: kg)

2.5

1.5

MM type: X medium-speed/Y medium-speed

4

2

The photograph above shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length

Cable Lengt	Cable Length									
Туре	Cable code	Length								
	1L	1m								
	3L	3m								
Standard type	5L	5m								
		Specified length (15m max.)								

Note 1. All-axis standard cable is used.

- Note 2. The length of the second axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified
- Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specifie in 1m increments up to 15m.

Specifications

ltem		X-axis	Y-axis			
Axis model		RCP6-SA7C	RCP6-SA6C			
Stroke (Every 50n	าm)	50~800mm	50~200mm			
	MM	280mm/s	400mm/s			
Max. speed *	HH	560mm/s	680mm/s			
	SS	640mm/s	800mm/s			
Motor size		56 Pulse motor	42□ Pulse motor			
Ball screw	MM	8mm	6mm			
lead	HH	16mm	12mm			
leau	SS	24mm	20mm			
Drive system		Ball screw ø12mm rolled C10	Ball screw ø10mm rolled C10			
Positioning repeatability		±0.01mm				
Base material		Aluminum				
Ambient operating temperature, humidity		0~40°C, 85% RH or less (non-condensing)				

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information.

🗆 X-axis: SA7C, Y-axis: SA6C

Туре	Reference page
PCON-CB/CGB	
PCON-CYB/PLB/POB (coming soon)	Please see the
MCON-C/CG	dedicated catalog or manual.
MCON-LC/LCG (coming soon)	acalculea catalog of manaal.
MSEL-PC/PG	

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

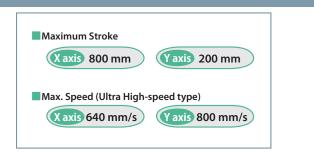
Cable Track Reference First wiring (X-axis lateral) Second wiring (Y-axis lateral) Model Type page Without cable track (cable only) Ν Cable track S size (inner width: 38mm) СТ Cable track M size (inner width: 50mm) стм See P.79 0 Cable track L size (inner width: 63mm) 0 CTL Cannot be Cable track XL size (inner width: 80mm) * CTXL selected *

* Only the first wiring can be selected

0.5

0.7

When both X and Y axes have the same acceleration/ deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.



* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Options (1)

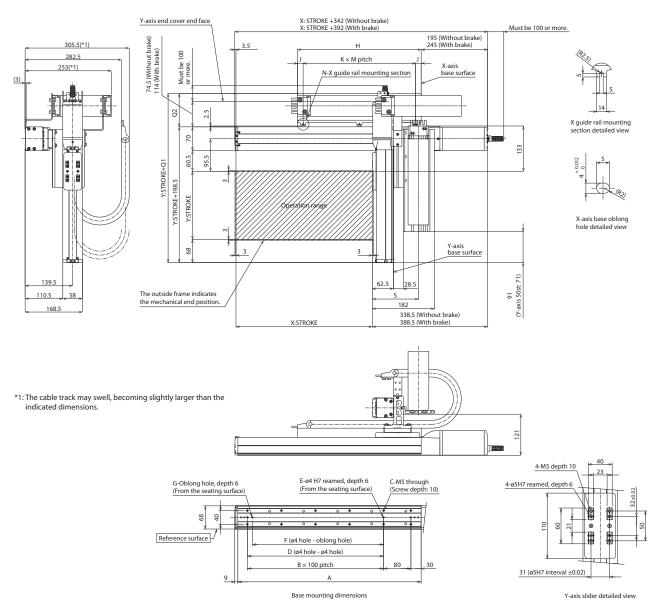
Туре	Option code	Reference page	X-axis	Y-axis
Brake	В	See P.77	0	0
Cable exit direction (Top)	CJT	See P.77	0	
Cable exit direction (Right)	CJR	See P.77	0	Cannot be
Cable exit direction (Left)	CJL	See P.77	0	selected
Cable exit direction (Bottom)	CJB	See P.77	0	
Non-motor end specification	NM	See P.78	0	0
Slider roller specification	SR	See P.78	0	0

Options (2)

Туре	Option code	Reference page
Foot plate	FTP	See P.77



Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*) Notes

The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer. When the foot plate option is selected, the unit will be shipped fixed on the foot

plate. (See P.77)

Also, the moving end of the Y-axis cable track is to be fixed to a plate or the like mounted on the Y-axis slider by the customer. (See P.79)

Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	188	238	288	338	388	438	488	538	588	638	688	738	788	838	888	938
В	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	0	0	100	200	200	300	300	400	400	500	500	600	600	700	700	800
E	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	188	213	238	263	288	313	338	363	388	413	438	463	488	513	538	563
J	16.5	16.5	14	16.5	16.5	16.5	14	16.5	14	16	15	66.5	44	56.5	69	16
К	1	1	1	2	2	2	2	2	2	3	3	3	2	2	2	3
М	155	180	210	115	127.5	140	155	165	180	127	136	110	200	200	200	177
N	2	2	2	3	3	3	3	3	3	4	4	4	3	3	3	4
					1											
Cable track size	CT	CTM	CTL	CTXL												

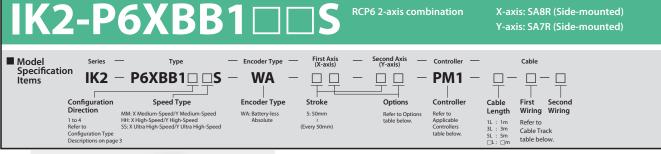
 283
 296
 309
 326

 84.5
 97.5
 110.5
 127.5

 129
 135.5
 142
 Q2

* Dimensions Q1, Q2 and S change depending on the size of the cable track.

IK2-P6XBC3DD5 **16**





Payload by Accelera	Payload by Acceleration									
MM type: X medium	-speed/Y	medi	ium-	speed		(Unit: kg)				
Y-axis strok Acceleration/ (mm deceleration (G)				150	200	250				
0.1	16			15	12.5	9				
0.3	16			15 12.		9				
0.5				10		9				
0.7			6		5	5.5				
1			б		5	5.5				
HH type: X high-spe	ed/Y high	-spee	ed	SS type:	X ultra high-speed	l/Y ultra high-speed				
Y-axis stroke Acceleration/ (mm) deceleration (G)	50~150 (Every 50mm)	200 250			Y-axis stroke celeration/ (mm) celeration (G) (Every 50)					
0.1	11	10.5	9		0.1	3				
0.3	8				0.3 1.5					

5

4

vibration, decrease the speed and acceleration/deceleration as required

When both X and Y axes have the same acceleration/deceleration. When there is significant

The photograph above shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

Cable Lengt	h	
Туре	Cable code	Length
	1L	1m
Standard tupo	3L	3m
Standard type	5L	5m
		Specified length (15m max.)

Note 1 All-axis standard cable is used

мМ

HH

SS

MM

HH SS

Note 2. The length of the second axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified

X-ax

56□ High-thrust pulse motor 10mm

Ball screw ø16mm rolled C10

Y-axi

. RCP6-SA7R 50~250mm

280mm/s

560mm/s

640mm/s

8mm

16mm

24mm Ball screw ø12mm rolled C10

56 Pulse motor

in 1m increments up to 15m.

RCP6-SA8R

300mm/s

400mm/s

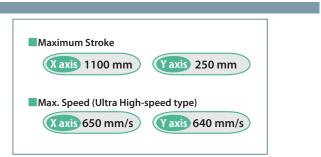
650mm/s

20mm

30mm

±0.01mm Aluminum

50~1100mm



* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

An	plicab	ntrol	orc
AU	pillab	IILIUI	IEIS

Controllers are sold separately. Please contact IAI for more information.

C X-axis: SA8R

Specifications Item

Stroke (Every 50mm)

Axis model

Max. speed

Motor size

Ball screw

Drive system Positioning repeatability

Base material Ambient operating

temperature, humidity

lead

Туре	Reference page
PCON-CFB/CGFB	Please see the RCP6 catalog or PCON-CB/CFB manual.

0~40°C, 85% RH or less (non-condensing)

□ Y-axis: SA7R

Туре	Reference page
PCON-CB/CGB	
PCON-CYB/PLB/POB (coming soon)	Please see the
MCON-C/CG	dedicated catalog or manual.
MCON-LC/LCG (coming soon)	
MSEL-PC/PG	

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Options												
Option code	Reference page	X-axis	Y-axis									
B	See P.77	0	0									
NM	See P.78	0	0									
SR	See P.78	0	0									
	B	Option code page B See P.77 NM See P.78	Option code page X-axis B See P.77 O NM See P.78 O									

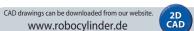
Cable Track

0.5

0.7

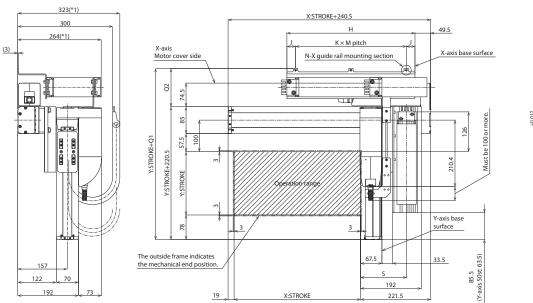
Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ		0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0
Cable track L size (inner width: 63mm)	CTL	See P.79	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *

* Only the first wiring can be selected





Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



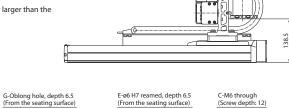


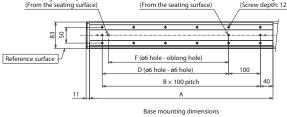
X guide rail mounting section detailed view

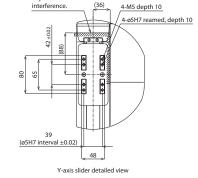


X-axis base oblong hole detailed view

*1: The cable track may swell, becoming slightly larger than the indicated dimensions.







Work part installed on the slider Pay attention to

(*) Notes

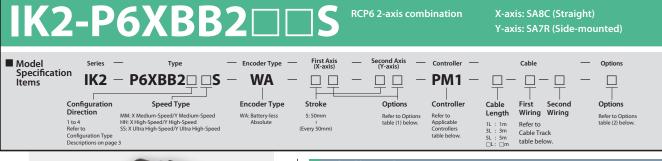
The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer.

Also, the moving end of the Y-axis cable track is to be fixed to a plate or the like mounted on the Y-axis slider by the customer. (See P.79)

Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
A	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280
В	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
D	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800	800	900	900	1000	1000	1100
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	0	80	180	180	280	280	380	380	480	480	580	580	680	680	780	780	880	880	980	980	1080
G	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	230	255	280	305	330	355	380	405	430	455	480	505	530	555	580	605	630	655	680	705	730	755
J	30	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	22.5	27.5	77.5	52.5	65	77.5	52.5	27.5	77.5	22.5	55	27.5
К	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4
М	170	200	225	125	137.5	150	162.5	175	187.5	200	145	150	125	150	150	150	175	200	175	165	155	175
N	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5
Cable track size	CT	CTM	CTL	CTXL]																	

Q1 328 341 354 371 Q2 107.5 120.5 133.5 150.5 S 139 145.5 152 -





Payload by Accelerat		•					
MM type: X medium-	speed/r med	ium-s	peea		(Unit: kg		
Y-axis stroke Acceleration/ (mm) deceleration (G))	150	200	250		
0.1	16		15	12.5	9		
0.3	16		15	12.5	9		
0.5			10		9		
0.7		6		5.5			
1		6		5.5			
HH type: X high-spee	d/Y high-spe	ed	SS type:	X ultra high-speed	l/Y ultra high-spe		
Y-axis stroke Acceleration/ (mm) deceleration (G)	50~150 Every 50mm) 200	250	Acceleration	Y-axis stroke (mm)	50~250 (Every 50mm)		
0.1	11 10.5	9		0.1	3		

8

5

4

vibration, decrease the speed and acceleration/deceleration as required

When both X and Y axes have the same acceleration/deceleration. When there is significant

1.5

0.3

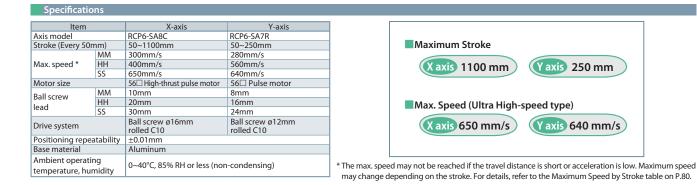
The photograph above shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

Cable Lengt	h	
Туре	Cable code	Length
	1L	1m
	3L	3m
Standard type	5L	5m
		Specified length (15m max.)

Note 1. All-axis standard cable is used.

Note 2. The length of the second axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified

in 1m increments up to 15m.



Options (1)

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information.

□ X-axis: SA8C

Туре	Reference page						
PCON-CFB/CGFB	Please see the RCP6 catalog or PCON-CB/CFB manual						
🗆 Y-axis: SA7R							
Туре	Reference page						
PCON-CB/CGB							
PCON-CYB/PLB/POB (coming soon)	Please see the						
MCON-C/CG	dedicated catalog or manual.						
MCON-LC/LCG (coming soon)	dedicated catalog of manual.						
MSEL-PC/PG							
* Operation is possible with the high out	put catting enocification When connecting						

¹ Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Туре	Option code	Reference page	X-axis	Y-axis
Brake	В	See P.77	0	0
Cable exit direction (Top)	CJT	See P.77	0	
Cable exit direction (Right)	CJR	See P.77	0	Cannot be
Cable exit direction (Left)	CJL	See P.77	0	selected
Cable exit direction (Bottom)	CJB	See P.77	0	
Non-motor end specification	NM	See P.78	0	0
Slider roller specification	SR	See P.78	0	0

Options (2)		
Туре	Option code	Reference page
Foot plate	FTP	See P.77

Cable Track

0.3

0.5

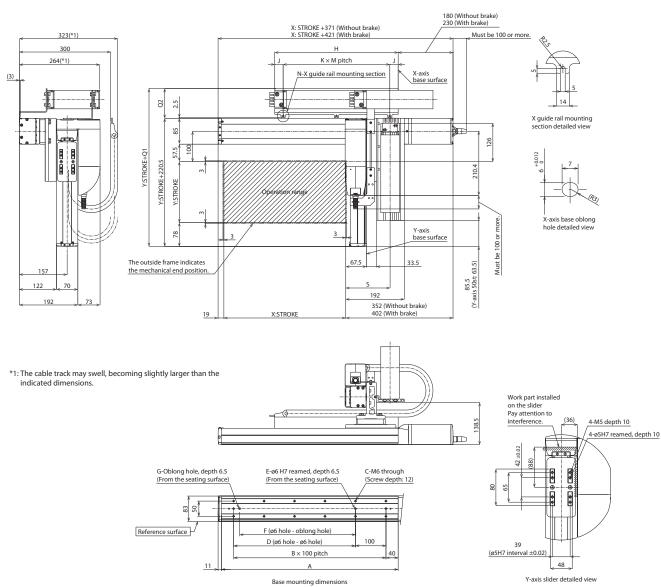
0.7

Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ		0	0
Cable track M size (inner width: 50mm)	СТМ	C D 70	0	0
Cable track L size (inner width: 63mm)	CTL	See P.79	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *

* Only the first wiring can be selected



Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



Y-axis slider detailed view

(*) Notes

The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer.

When the foot plate option is selected, the unit will be shipped fixed on the foot plate. (See P.77)

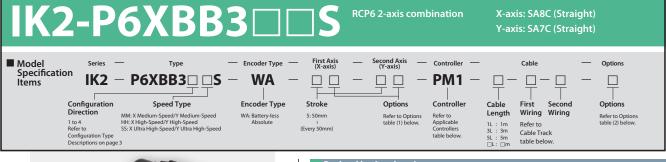
Also, the moving end of the Y-axis cable track is to be fixed to a plate or the like mounted on the Y-axis slider by the customer. (See P.79)

Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
А	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280
В	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
С	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
D	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800	800	900	900	1000	1000	1100
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	0	80	180	180	280	280	380	380	480	480	580	580	680	680	780	780	880	880	980	980	1080
G	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	230	255	280	305	330	355	380	405	430	455	480	505	530	555	580	605	630	655	680	705	730	755
J	30	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	22.5	27.5	77.5	52.5	65	77.5	52.5	27.5	77.5	22.5	55	27.5
К	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4
М	170	200	225	125	137.5	150	162.5	175	187.5	200	145	150	125	150	150	150	175	200	175	165	155	175
N	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5
					1																	
Cable track size	CT	CTM	CTL	CTXL																		

 305
 318
 331
 348

 84.5
 97.5
 110.5
 127.5
 Q2 139 145.5 152





Payload by Accelera	tion							
MM type: X medium	n-speed/Y n	nedi	um-	speed		(Unit: kg		
Y-axis strok Acceleration/ (mn deceleration (G)		-		150	200	250		
0.1	16			15	12.5	9		
0.3	16			15	12.5	9		
0.5				10		9		
0.7			6		5	5.5		
1			6		5.5			
HH type: X high-spe	ed/Y high-	spee	d	SS type:	X ultra high-speed	d/Y ultra-high spe		
Y-axis stroke Acceleration/ (mm) deceleration (G)	50~150 (Every 50mm)	200	250	Acceleration	Y-axis stroke (mm)	50~250 (Every 50mm)		
0.1	11	10.5	9		0.1	3		
0.3	8				1.5			
0.5	5							

The photograph above shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length									
Туре	Cable code	Length							
Standard type	1L	1m							
	3L	3m							
	5L	5m							
		Specified length (15m max.)							

Note 1. All-axis standard cable is used. Note 2. The length of the second axis cable is from the exit of the cable track.

A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m. 3m and 5m, but other lengths can be spe-

X-axi

56 High-thrust pulse motor

0~40°C, 85% RH or less (non-condensing)

Ball screw ø16mm rolled C10 Y-axis

RCP6-SA7C

50~250mm

280mm/s

560mm/s 640mm/s

8mm

16mm

24mm

56 Pulse motor

Ball screw ø12mm rolled C10

Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

RCP6-SA8C

300mm/s

400mm/s

650mm/s

10mm

20mm

30mm

±0.01mm Aluminum

50~1100mm

⁴ When both X and Y axes have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

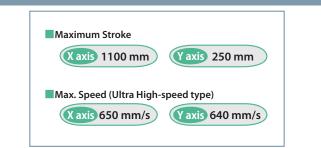
4

Cable Track								
Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)				
Without cable track (cable only)	N		0	0				
Cable track S size (inner width: 38mm)	СТ	1	0	0				
Cable track M size (inner width: 50mm)	СТМ	See P 79	0	0				
Cable track L size (inner width: 63mm)	CTL	See P.79	0	0				
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *				

* Only the first wiring can be selected

Options (1)

0.7



* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Applicable Controllers	
------------------------	--

Specifications Item

Axis model Stroke (Every 50mm)

Max. speed

Motor size

Ball screw

Drive system

Base material Ambient operating

Positioning repeatability

temperature, humidity

lead

МŃ

HH

MM

ΗH

SS

SS

Controllers are sold separately. Please contact IAI for more information.

🗆 X-axis: S/	\8C	
	Туре	Reference page
PCON-CFB/C	GFB	Please see the RCP6 catalog or PCON-CB/CFB manual.
🗆 Y-axis: SA	47C	
	Туре	Reference page
PCON-CB/CO	GB	
PCON-CYB/F	PLB/POB (coming soon)	Please see the
MCON-C/CG	1	dedicated catalog or manual.
MCONLIG	CC (acalcatea catalog of manadi.

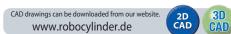
MCON-C/CG MCON-LC/LCG (coming soon) MSEL-PC/PG * Operation is possible with the high-output setting specification. When connecting

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

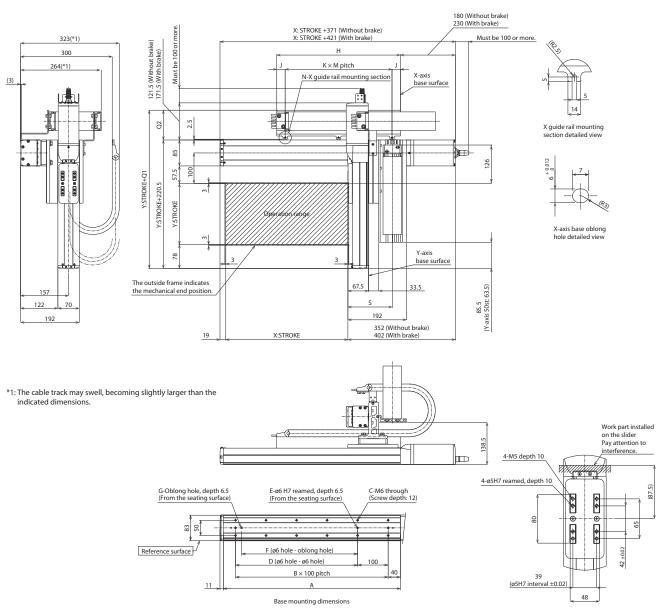
Option code	Reference page	X-axis	Y-axis
В	See P.77	0	0
CJT	See P.77	0	
CJR	See P.77	0	Cannot be
CJL	See P.77	0	selected
CJB	See P.77	0	
NM	See P.78	0	0
SR	See P.78	0	0
	B CJT CJR CJL CJB NM	Option code page B See P.77 CJT See P.77 CJL See P.77 CJL See P.77 CJB See P.77 NM See P.78	Option code page X-axis B See P.77 O CJT See P.77 O CJR See P.77 O CJL See P.77 O CJB See P.77 O NM See P.78 O

Options (2)								
Туре	Option code	Reference page						
Foot plate	FTP	See P.77						

21 IK2-P6XBB3



Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



Y-axis slider detailed view

(*) Notes

The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer.

When the foot plate option is selected, the unit will be shipped fixed on the foot plate. (See P.77)

Also, the moving end of the Y-axis cable track is to be fixed to a plate or the like mounted on the Y-axis slider by the customer. (See P.79)

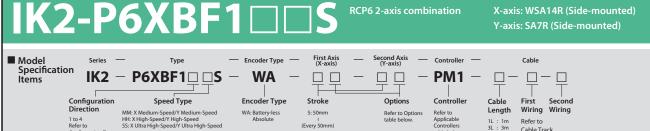
Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
A	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280
В	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
D	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800	800	900	900	1000	1000	1100
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	0	80	180	180	280	280	380	380	480	480	580	580	680	680	780	780	880	880	980	980	1080
G	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	230	255	280	305	330	355	380	405	430	455	480	505	530	555	580	605	630	655	680	705	730	755
J	30	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	22.5	27.5	77.5	52.5	65	77.5	52.5	27.5	77.5	22.5	55	27.5
К	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4
М	170	200	225	125	137.5	150	162.5	175	187.5	200	145	150	125	150	150	150	175	200	175	165	155	175
N	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5
Cable track size	СТ	CTM	CTL	CTXL	1																	
Cable LIDCK SIZE		CIN	CIL	CIAL																		

 Q1
 305
 318
 331
 348

 Q2
 84.5
 97.5
 110.5
 127.5

 S
 139
 145.5
 152



Ac de

1 to 4 H Refer to S Configuration Type Descriptions on page 3

50mm)		1L : 1m 3L : 3m ″. 5L : 5m □L: □m	Refer to Cable Track table below.		
Payload by Acceler					
MM type: X mediu	m-speed/Y n	nedium-spe	ed		(Unit: kg)
Y-axis stroke cceleration/ (mm eceleration (G)	1 30~100	150~200 (Every 50mm)	250~300 (Every 50mm)	350	400
0.1	16	15	12.5	12	10.5
03	16	15	12.5	12	10.5



0.5				12
0.7				9.5
HH type: X high-	speed	/Y high	-speed	SS type: X ultra high-
Y-axis stroke (mm) deceleration (G)	50~100 (Every 50mm)	150~300 (Every 50mm)	350~400 (Every 50mm)	Y-axis stroke (mm) deceleration (G)
0.1	5	3	7.5	0.1
0.3	8	3	7.5	0.3
0.5	5	4.5	4	0.5
0.7	3	2.5	2	

The photograph above shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length									
Туре	Cable code	Length							
Standard type	1L	1m							
	3L	3m							
	5L	5m							
		Specified length (15m max.)							

Note 1. All-axis standard cable is used. Note 2. The length of the second axis cable is from the exit of the cable track.

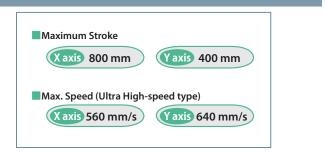
A separate cable is included for wiring inside the cable track.

Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified

in 1m increments up to 15m.

Specifications								
1.		× ·						
ltem		X-axis	Y-axis					
Axis model		RCP6-WSA14R	RCP6-SA7R					
Stroke (Every 50n	าm)	50~800mm	50~400mm					
	MM	210mm/s	280mm/s					
Max. speed *	HH	420mm/s	560mm/s					
	SS	560mm/s	640mm/s					
Motor size		56 Pulse motor	56 Pulse motor					
Ball screw	MM	8mm	8mm					
lead	HH	16mm	16mm					
lead	SS	24mm	24mm					
Drive system		Ball screw ø12mm rolled C10	Ball screw ø12mm rolled C10					
Positioning repeatability		±0.01mm						
Base material		Aluminum						
Ambient operatir temperature, hur		0~40°C, 85% RH or less (non-condensing)						

* Only the first wiring can be selected



* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke.

For details, refer to the Maximum Speed by Stroke table on P.80.

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information.

🗆 X-axis: WSA14R, Y-axis: SA7R

Туре	Reference page				
PCON-CB/CGB					
PCON-CYB/PLB/POB (coming soon)	Please see the				
MCON-C/CG	dedicated catalog or manual.				
MCON-LC/LCG (coming soon)					
MSEL-PC/PG					

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Option code	Reference page	X-axis	Y-axis
В	See P.77	0	0
NM	See P.78	0	0
SR	See P.78	0	0
	B	Option code page B See P.77 NM See P.78	Option code page X-axis B See P.77 O NM See P.78 O

Cable track XL size (inner width: 80mm) *

10.5

Y high	-speed	SS type: X ultra high	-speed/Y	ultra hig	Jh-speed
150~300 (Every 50mm)	350~400 (Every 50mm)	Y-axis stroke Acceleration/ deceleration (G)		150~300 (Every 50mm)	350~400 (Every 50mm)
3	7.5	0.1	6	5.5	5

5

2.5

5.5 3

0

4.5

2

Second wiring

(Y-axis lateral)

0

Ο 0

Cannot be

selected *

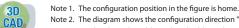
⁶ When both X and Y axes have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

CTXL

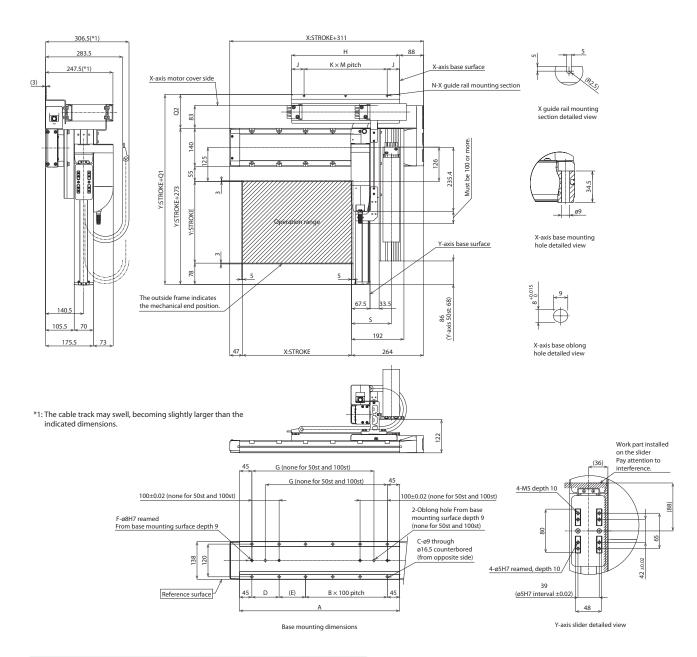
Cable	Track	

	Cable Track			
	Туре	Model	Reference page	First wiring (X-axis lateral)
	Without cable track (cable only)	N		0
.)	Cable track S size (inner width: 38mm)	СТ		0
	Cable track M size (inner width: 50mm)	СТМ	See P.79	0
	Cable track L size (inner width: 63mm)	CTL	See P.79	0





Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*) Notes

The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer.

Also, the moving end of the Y-axis cable track is to be fixed to a plate or the like mounted on the Y-axis slider by the customer. (See P.79)

Dimensions by Stroke

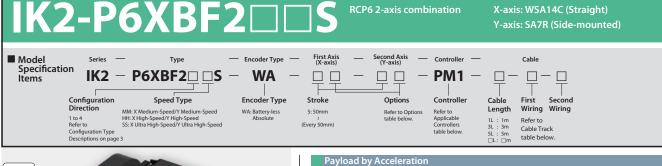
X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	237	287	337	387	437	487	537	587	637	687	737	787	837	887	937	987
В	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
C	4	4	8	8	10	10	12	12	14	14	16	16	18	18	20	20
D	-	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100
E	147	197	47	97	47	97	47	97	47	97	47	97	47	97	47	97
F	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
G	-	-	198	248	298	348	398	448	498	548	598	648	698	748	798	848
Н	221	246	271	296	321	346	371	396	421	446	471	496	521	546	571	596
J	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	43	48	45.5	43	43	45.5	43
К	1	1	2	2	2	2	2	2	3	3	3	3	3	4	4	4
М	130	155	90	102.5	115	127.5	140	152.5	110	120	125	135	145	115	120	127.5
N	2	2	3	3	3	3	3	3	4	4	4	4	4	5	5	5
					1											
Cololo Ana als aima	CT	CTM	CTI	CTVI												

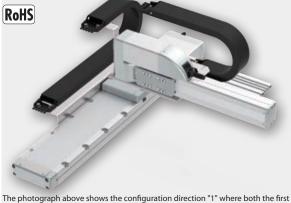
 Cable track size
 CT
 CTM
 CTL
 CTXL

 Q1
 383.5
 396.5
 426.5

 Q2
 110.5
 123.5
 136.5
 153.5

 S
 139
 145.5
 152.5





MM type: X med	ium-sp	beed/Y r	nediur	n-spe	ed				(Unit: kg)
Y-axis stro Acceleration/ (m deceleration (G)	m) '	50~100 150~200 250~300 (Every 50mm) (Every 50mm) 350				2	100		
0.1		16	1	5	12.5		12	1	0.5
0.3		16	1	5	12.5		12	1	0.5
0.5				1	2			1	0.5
0.7					9.5				
HH type: X high-	speed	/Y high-	speed	SS	type: X ultra	high	-speed/Y	ultra hig	gh-speed
Y-axis stroke (mm) deceleration (G)	50~100 (Every 50mm)	150~300 (Every 50mm)	350~400 (Every 50mm)		Y-axis s eration/ eration (G)	troke (mm)	50~100 (Every 50mm)	150~300 (Every 50mm)	350~400 (Every 50mm)
0.1		8	7.5		0.1		6	5.5	5
0.3		8	7.5		0.3		5.5	5	4.5
0.5	5	4.5	4		0.5		3	2.5	2

* When both X and Y axes have the same acceleration/deceleration.

When there is significant vibration, decrease the speed and acceleration/deceleration as required.

Model

Ν

СТ

стм

CTL

CTXL

Reference

page

See P.79

First wiring

(X-axis lateral)

0

Second wiring

(Y-axis lateral)

Cannot be

selected *

Ca	blo	ongt	
La	Die	Lengu	

cubic Lenge	•••						
_							
Туре	Cable code	Length					
	1L	1m					
Standard tuno	3L	3m					
Standard type	5L	5m					
		Specified length (15m max.)					

Note 1. All-axis standard cable is used.

wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

Note 2. The length of the second axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track.

Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Specifications

ltem		X-axis	Y-axis					
Axis model		RCP6-WSA14C	RCP6-SA7R					
Stroke (Every 50)mm)	50~800mm	50~400mm					
	MM	210mm/s	280mm/s					
Max. speed *	HH	420mm/s	560mm/s					
	SS	560mm/s	640mm/s					
Motor size		56 Pulse motor	56 Pulse motor					
Ball screw	MM	8mm	8mm					
lead	HH	16mm	16mm					
leau	SS	24mm	24mm					
Drive system		Ball screw ø12mm rolled C10	Ball screw ø12mm rolled C10					
Positioning rep	eatability	±0.01mm	±0.01mm					
Base material		Aluminum						
Ambient operat		0~40°C, 85% RH or less (non-condensing)						

X axis 800 mm

Ontions

Maximum Stroke



* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information.

🗆 X-axis: WSA14C, Y-axis: SA7R

-	
Туре	Reference page
PCON-CB/CGB	
PCON-CYB/PLB/POB (coming soon)	Please see the
MCON-C/CG	dedicated catalog or manual.
MCON-LC/LCG (coming soon)	
MSEL-PC/PG	

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Options				
Туре	Option code	Reference page	X-axis	Y-axis
Brake	В	See P.77	0	0
Cable exit direction (Top)	CJT	See P.77	0	
Cable exit direction (Right)	CJR	See P.77	0	Cannot be
Cable exit direction (Left)	CJL	See P.77	0	selected
Cable exit direction (Bottom)	CJB	See P.77	0	
Non-motor end specification	NM	See P.78	0	0
Slider roller specification	SR	See P.78	0	0

Only the first wiring can be selected

Туре

Cable track S size (inner width: 38mm)

Cable track M size (inner width: 50mm)

Cable track L size (inner width: 63mm)

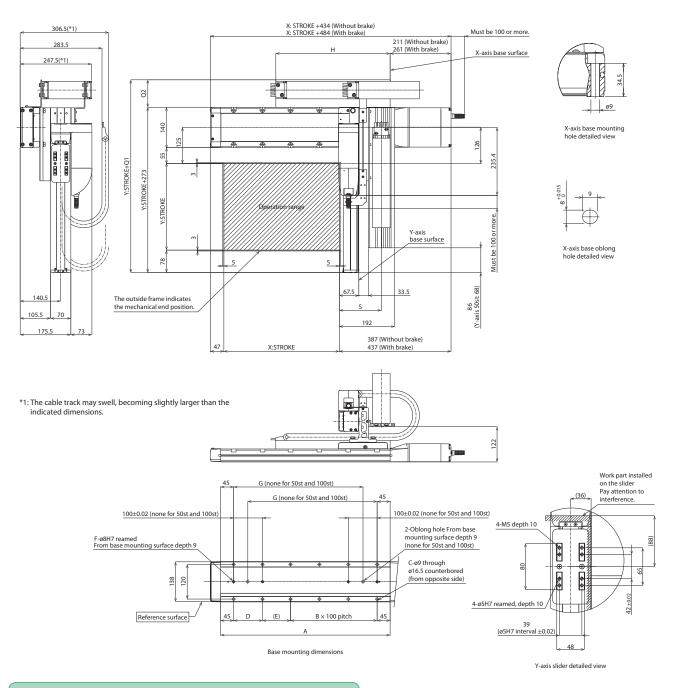
Cable track XL size (inner width: 80mm) *

Without cable track (cable only)

Cable Track



Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*) Notes

The X-axis cable track guide rail is fixed on the X-axis body. Also, the moving end of the Y-axis cable track is to be fixed to a plate or the like mounted on the Y-axis slider by the customer. (See P.79)

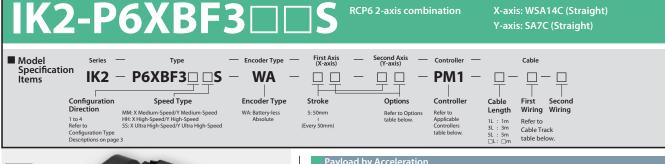
Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
А	237	287	337	387	437	487	537	587	637	687	737	787	837	887	937	987
В	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
C	4	4	8	8	10	10	12	12	14	14	16	16	18	18	20	20
D	-	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100
E	147	197	47	97	47	97	47	97	47	97	47	97	47	97	47	97
F	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
G	-	-	198	248	298	348	398	448	498	548	598	648	698	748	798	848
Н	221	246	271	296	321	346	371	396	421	446	471	496	521	546	571	596
Cable track size	CT	CTM	CTI	CTXI	1											

 Q1
 356
 368
 383
 401

 Q2
 83
 95
 110
 128

 S
 139
 145.5
 152





Payload by Acceleration										
MM type: X medium-speed/Y medium-speed (Unit: kg										
Y-axis stroke Acceleration/ (mm deceleration (G)	50~100	150~200 (Every 50mm)	250~300 (Every 50mm)	350	4	00				
0.1	16	15	12.5	12	1	0.5				
0.3	16	15	12.5	12	1	0.5				
0.5		12 10.5								
0.7			9.5							
HH type: X high-sp	HH type: X high-speed/Y high-speed SS type: X ultra high-speed/Y ultra high-speed									
Acceleration/ (mm) (E	very (Every	350~400 (Every 50mm) Accele decele	Y-axis stro (mr eration/ gration (G)		150~300 (Every 50mm)	350~400 (Every 50mm)				
0.1	8	7.5	0.1	6	5.5	5				

4.5 0.7 2.5 3 2

8

When both X and Y axes have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

Model

Ν СТ 0.3

0.5

Reference

page

7.5

4

5

2.5

4.5

2

Second wiring

(Y-axis lateral)

Cannot be

selected *

5.5

3

First wiring

(X-axis lateral)

0

Cable Length

Туре	Cable code	Length
	1L	1m
	3L	3m
Standard type	5L	5m
		Specified length (15m max.)

Note 1. All-axis standard cable is used.

Note 2. The length of the second axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track.

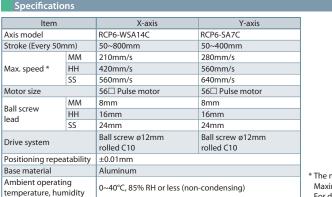
Note 3. The standard lengths are 1 m, 3m and 5m, but other lengths can be specified in 1 m increments up to 15m.

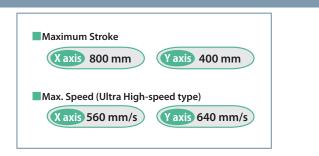
100	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
3m	
5m	Without cable track (cable only)
pecified length (15m max.)	Cable track S size (inner width: 38mm)
	Cable track M size (inner width: 50mm

0.3

0.5

n) СТМ See P.79 Cable track L size (inner width: 63mm) CTL Cable track XL size (inner width: 80mm) * CTXL [•] Only the first wiring can be selected





* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information.

□ X-axis: WSA14C, Y-axis: SA7C

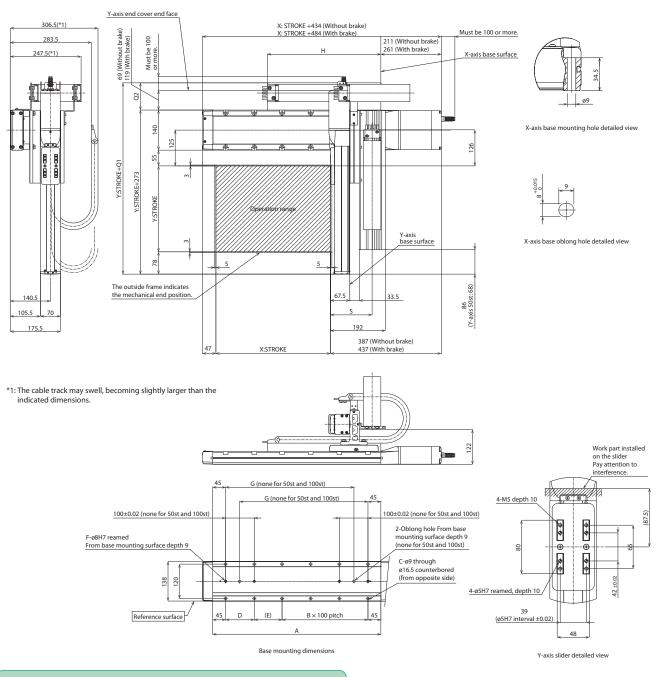
Туре	Reference page
PCON-CB/CGB	
PCON-CYB/PLB/POB (coming soon)	Please see the
MCON-C/CG	dedicated catalog or manual.
MCON-LC/LCG (coming soon)	acticated eatilog of manual.
MSEL-PC/PG	

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Options				
Туре	Option code	Reference page	X-axis	Y-axis
Brake	В	See P.77	0	0
Cable exit direction (Top)	CJT	See P.77	0	
Cable exit direction (Right)	CJR	See P.77	0	Cannot be
Cable exit direction (Left)	CJL	See P.77	0	selected
Cable exit direction (Bottom)	CJB	See P.77	0	
Non-motor end specification	NM	See P.78	0	0
Slider roller specification	SR	See P.78	0	0



Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*) Notes

The X-axis cable track guide rail is fixed on the X-axis body. Also, the moving end of the Y-axis cable track is to be fixed to a plate or the like mounted on the Y-axis slider by the customer. (See P.79)

Dimensions by Stroke

		Y				·										
X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	237	287	337	387	437	487	537	587	637	687	737	787	837	887	937	987
В	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
C	4	4	8	8	10	10	12	12	14	14	16	16	18	18	20	20
D	-	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100
E	147	197	47	97	47	97	47	97	47	97	47	97	47	97	47	97
F	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
G	-	-	198	248	298	348	398	448	498	548	598	648	698	748	798	848
Н	221	246	271	296	321	346	371	396	421	446	471	496	521	546	571	596

 Cable track size
 CT
 CTM
 CTL
 CTXL

 Q1
 356
 368
 383
 401

 Q2
 83
 95
 110
 128

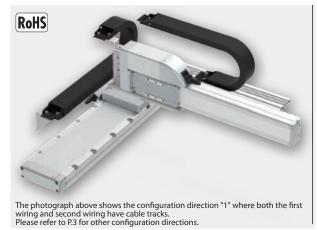
 S
 139
 145.5
 152



RCP6 2-axis combination

X-axis: WSA16R (Side-mounted) Y-axis: SA8R (Side-mounted)

- model	Series —	Туре	— Encoder Type —	– First Axis (X-axis)	—	Second Axis (Y-axis)	Controller -	_	Cable	
Specification Items	K2 – P	6XBE1 🗆 🗆 S	— WA –	- 🗆 🗆	—		PM1 -	- 🗆 -	- 🗆 -	- 🗆
	[\top				T	\top	\top
Configu	uration	Speed Type	Encoder Type	Stroke		Options	Controller	Cable	First	Second
Directio	on _{MH} .	X Medium-Speed/Y High-Speed	WA: Battery-less	5: 50mm		Refer to Options	Refer to	Length	Wiring	Wiring
		X High-Speed/Y High-Speed	Absolute	(Every 50mm)		table below.	Applicable Controllers table below.	1L : 1m 3L : 3m 5L : 5m □L: □m	Refer to Cable Tr table be	ack



Payload by Acceleration								
MH type: X medium-speed/Y high-speed								
Y-axis stroke (mm) deceleration/ deceleration (G)	50~100 (Every 50mm)	150~200 (Every 50mm)	250~300 (Every 50mm)	350~400 (Every 50mm)	450	500		
0.1	17	16	15	14	12	10		
0.3	17	16	15	14	12	10		
0.5	11		10).5	10			

HH type: X high-speed/Y high-speed

Y-axis stroke Acceleration/ deceleration (G)	50~100	150~250 (Every 50mm)	300~400 (Every 50mm)	450~500 (Every 50mm)
0.1	10	9.5	9	8.5
0.3	9	8.5	8	7.5
0.5	4	3.5	3	2.5

* When both X and Y axes have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

Cable Length

Cable Lengt	11	
Туре	Cable code	Length
Chan dead the s	1L	1m
	3L	3m
Standard type	5L	5m
		Specified length (15m max.)

Note 1. All-axis standard cable is used.

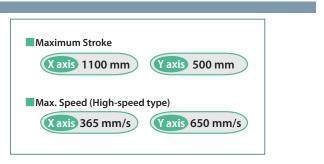
Note 2. The length of the second axis cable is from the exit of the cable track.
 A separate cable is included for wiring inside the cable track.
 Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

cubic frack				
Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ		0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0
Cable track L size (inner width: 63mm)	CTL	See P.79	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *

* Only the first wiring can be selected

Cable Track

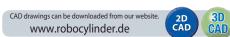
Specificatio	ns						
ltem		X-axis	Y-axis				
Axis model		RCP6-WSA16R	RCP6-SA8R				
Stroke (Every 50r	nm)	50~1100mm	50~500mm				
Max	MH	210mm/s	400mm/s				
Max. speed *	HH	365mm/s	650mm/s				
Motor size		56 High-thrust	56 High-thrust				
wotor size		pulse motor	pulse motor				
Ball screw	MH	10mm	20mm				
lead	HH	20mm	2011111				
Drive system		Ball screw ø16mm rolled C10	Ball screw ø16mm rolled C10				
Positioning repea	atability	±0.01mm	·				
Base material		Aluminum					
Ambient operatii temperature, hur		0~40°C, 85% RH or less (non-condensing)					



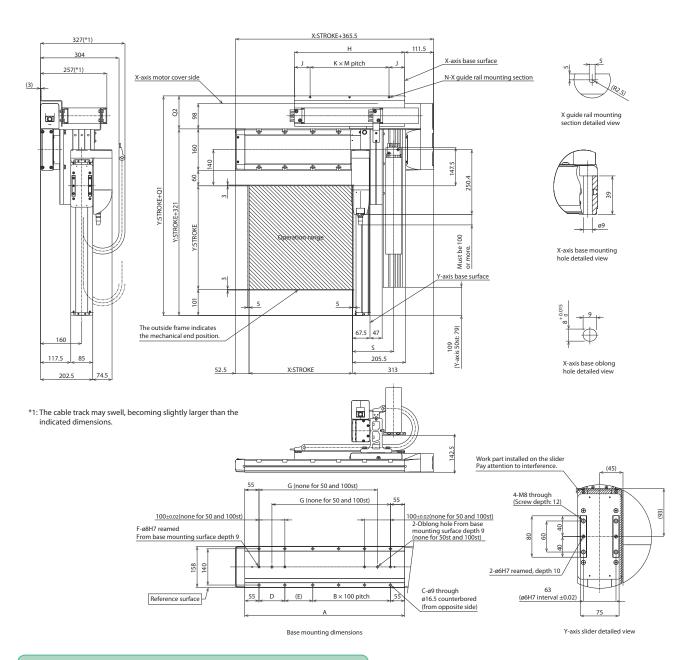
* The max. speed may not be reached if the travel distance is short or acceleration is low.

Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Applicable Controllers		Options				
ontrollers are sold separately. ease contact IAI for more informa	tion.	Туре	Option code	Reference page	X-axis	Y-axis
		Brake	В	See P.77	0	0
X-axis: WSA16R, Y-axis: SA8R		Non-motor end specification	NM	See P.78	0	0
Туре	Reference page	Slider roller specification	SR	See P.78	0	0
PCON-CFB/CGFB	Please see the RCP6 catalog or PCON-CB/CFB manual.					



Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*) Notes

The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer.

Also, the moving end of the Y-axis cable track is to be fixed to a plate or the like mounted on the Y-axis slider by the customer. (See P.79)

Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
A	268	318	368	418	468	518	568	618	668	718	768	818	868	918	968	1018	1068	1118	1168	1218	1268	1318
В	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
С	4	4	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
D	-	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
E	158	208	58	108	58	108	58	108	58	108	58	108	58	108	58	108	58	108	58	108	58	108
F	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
G	-	-	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158
Н	251	276	301	326	351	376	401	426	451	476	501	526	551	576	601	626	651	676	701	726	751	776
J	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	58	63	60.5	58	58	60.5	58	60.5	58	60.5	63	63	63
К	1	1	2	2	2	2	2	2	3	3	3	3	3	4	4	4	4	4	4	5	5	5
М	130	155	90	102.5	115	127.5	140	152.5	110	120	125	135	145	115	120	127.5	132.5	140	145	120	125	130
N	2	2	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	6	6	6
Cable track size	CT	СТМ	CTI	СТХІ																		

 Cable track size
 CT
 CTM
 CTL
 CTL
 CTL

 Q1
 448.5
 448.5
 448.5
 465.5

 Q2
 127.5
 127.5
 127.5
 124.5

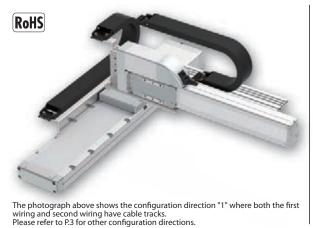
 S
 152.5
 159
 165.5

IK2-P6XBE2

RCP6 2-axis combination

X-axis: WSA16C (Straight) Y-axis: SA8R (Side-mounted)

Model Seri	es — Type	— Encoder Type —	 First Axis (X-axis) 	Second Axis (Y-axis)	Controller —	C	able
Specification Items IK	2 – P6XBE2 <u>–</u> –	5 - WA -	- 무무		PM1 –	무-	므- 므
Configura Direction	tion Speed Type MH: X Medium-Speed/Y High-Speed	Encoder Type WA: Battery-less	Stroke	Options Refer to Options	Controller Refer to		irst Second /iring Wiring
1 to 4 Refer to Configuration Descriptions	HH: X High-Speed/Y High-Speed	Absolute	(Every 50mm)	table below.	Applicable Controllers table below.	3L:3m C	efer to able Track ble below.



Payload by Accelerati	on													
MH type: X medium-s	MH type: X medium-speed/Y high-speed (Unit: kg													
Y-axis stroke (mm) deceleration/ deceleration (G)	50~100 (Every 50mm)	150~200 (Every 50mm)	250~300 (Every 50mm)	350~400 (Every 50mm)	450	500								
0.1	17	16	15	14	12	10								
0.3	17	16	15	14	12	10								
0.5	1	1	10).5	1	0								

HH type: X high-speed/Y high-speed

Y-axis stroke Acceleration/ deceleration (G)	50~100	150~250 (Every 50mm)	300~400 (Every 50mm)	450~500 (Every 50mm)
0.1	10	9.5	9	8.5
0.3	9	8.5	8	7.5
0.5	4	3.5	3	2.5

* When both X and Y axes have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

Cable Leng	th	
_		

Туре	Cable code	Length
	1L	1m
	3L	3m
Standard type	5L	5m
		Specified length (15m max.)

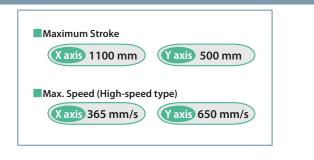
Note 1. All-axis standard cable is used.

Note 1. AII-3XIS standard Cable IS used.
 Note 2. The length of the second axis cable is from the exit of the cable track.
 A separate cable is included for wiring inside the cable track.
 Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Cable Track				
Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ		0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0
Cable track L size (inner width: 63mm)	CTL	See F.79	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *

* Only the first wiring can be selected

Specificatio	ns							
ltem		X-axis	Y-axis					
Axis model		RCP6-WSA16C	RCP6-SA8R					
Stroke (Every 50m	וm)	50~1100mm	50~500mm					
Max. speed *	MH	210mm/s	400mm/s					
wax. speed "	HH	365mm/s	650mm/s					
Motor size		56 High-thrust	56 High-thrust					
WOTOF SIZE		pulse motor	pulse motor					
Ball screw	MH	10mm 20mm						
lead	HH	20mm	2011111					
Drive system		Ball screw ø16mm rolled C10	Ball screw ø16mm rolled C10					
Positioning repea	tability	±0.01mm						
Base material		Aluminum						
Ambient operatin temperature, hun		0~40°C, 85% RH or less (non	-condensing)					



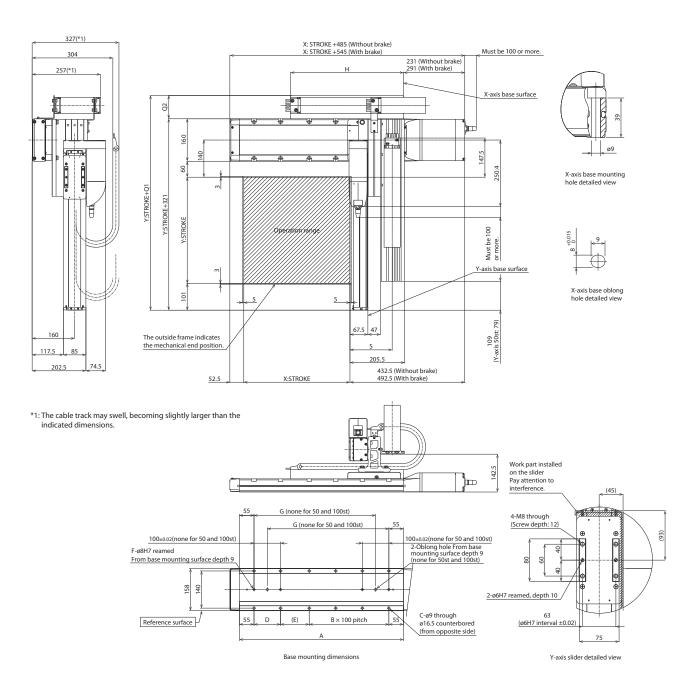
* The max. speed may not be reached if the travel distance is short or acceleration is low.

Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Applicable Controllers		Options				
Controllers are sold separately. Please contact IAI for more inform	ation.	Туре	Option code	Reference page	X-axis	Y-axis
		Brake	В	See P.77	0	0
🗆 X-axis: WSA16C, Y-axis: SA8R	Cable exit direction (Top)	CJT	See P.77	0		
Туре	Reference page	Cable exit direction (Right)	CJR	See P.77	0	Cannot be
PCON-CFB/CGFB	Please see the RCP6 catalog or PCON-CB/CFB manual.	Cable exit direction (Left)	CJL	See P.77	0	selected
		Cable exit direction (Bottom)	CJB	See P.77	0	
		Non-motor end specification	NM	See P.78	0	0
		Slider roller specification	SR	See P.78	0	0



Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*) Notes

The X-axis cable track guide rail is fixed on the X-axis body. Also, the moving end of the Y-axis cable track is to be fixed to a plate or the like mounted on the Y-axis slider by the customer. (See P.79)

Dimensions by Stroke

8 31	3 368	418	468	518	568								750	800	850	900	950	1000	1050	1100
0	1			510	209	618	668	718	768	818	868	918	968	1018	1068	1118	1168	1218	1268	1318
		1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
4	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8 20	3 58	108	58	108	58	108	58	108	58	108	58	108	58	108	58	108	58	108	58	108
2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
-	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158
1 270	5 301	326	351	376	401	426	451	476	501	526	551	576	601	626	651	676	701	726	751	776
8	2	208 58 2 4 - 208	208 58 108 2 4 4 - 208 258	- 100 100 100 208 58 108 58 2 4 4 4 - 208 258 308	- 100 100 100 100 208 58 108 58 108 2 4 4 4 4 - 208 258 308 358	- 100 100 100 100 208 58 108 58 108 58 2 4 4 4 4 4 - 208 258 308 358 408	- 100 100 100 100 100 100 208 58 108 58 108 58 108 2 4 4 4 4 4 4 - 208 258 308 358 408 458	- 100 100 100 100 100 100 100 208 58 108 58 108 58 108 58 2 4 4 4 4 4 4 4 - 208 258 308 358 408 458 508	- 100 100 100 100 100 100 100 100 100 208 58 108 58 508 558 508 558 508 558 568 568 568 568 568 568 568 568 <td>- 100</td> <td>- 100</td> <td>- 100</td> <td>- 100</td> <td>- 100</td> <td>- 100</td> <td>- 100</td> <td>- 100</td> <td>- 100</td> <td>- 100</td> <td>- 100</td>	- 100	- 100	- 100	- 100	- 100	- 100	- 100	- 100	- 100	- 100	- 100

 Cable track size
 CT
 CTM
 CTL
 CTXL

 Q1
 396.5
 408.5
 423.5
 441.5

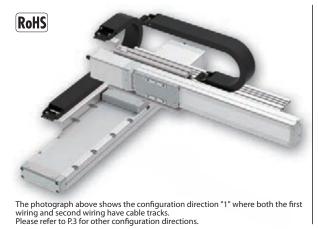
 Q2
 75.5
 87.5
 102.5
 120.5

 S
 152.5
 159
 165.5



X-axis: WSA16C (Straight) Y-axis: SA8C (Straight)

				_ First Axis	Second Axis			
Model	Series —	Туре	— Encoder Type —	(X-axis)	(Y-axis)	Controller —		Cable
Specification Items	' IK2 —	P6XBE3 C	— WA –	- 🗆 🗆		PM1 -	□ -	
				T-T-			T	ТТ
	onfiguration	Speed Type	Encoder Type	Stroke	Options	Controller	Cable	First Second
	irection	MH: X Medium-Speed/Y High-Speed	WA: Battery-less	5: 50mm	Refer to Options	Refer to	Length	Wiring Wiring
Re	to 4 efer to onfiguration Type escriptions on page 3	HH: X High-Speed/Y High-Speed	Absolute	(Every 50mm)	table below.	Applicable Controllers table below.	1L : 1m 3L : 3m 5L : 5m □L: □m	Refer to Cable Track table below.



Payload by Acceleration									
MH type: X medium-speed/Y high-speed (Unit: kg)									
Y-axis stroke (mm) deceleration/ deceleration (G)	50~100 (Every 50mm)	150~200 (Every 50mm)	250~300 (Every 50mm)	350~400 (Every 50mm)	450	500			
0.1	17	16	15	14	12	10			
0.3	17	16	15	14	12	10			
0.5	1	1	10).5	1	0			

HH type: X high-speed/Y high-speed

Y-axis stroke Acceleration/ deceleration (G)	50~100	150~250 (Every 50mm)	300~400 (Every 50mm)	450~500 (Every 50mm)
0.1	10	9.5	9	8.5
0.3	9	8.5	8	7.5
0.5	4	3.5	3	2.5

* When both X and Y axes have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

Cable Length									
Туре	Cable code	Length							
	1L	1m							
Chan doud to us a	3L	3m							
Standard type	5L	5m							
		Specified length (15m max.)							

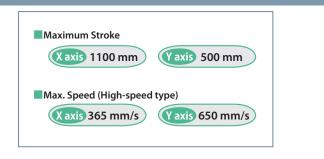
Note 1. All-axis standard cable is used.

Note 1. All axis statilitatic CaDIe IS USEd. Note 2. The length of the second axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Cable Track				
Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ]	0	0
Cable track M size (inner width: 50mm)	СТМ	C D 70	0	0
Cable track L size (inner width: 63mm)	CTL	See P.79	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *

* Only the first wiring can be selected

Specificatio	ns						
ltem		X-axis	Y-axis				
Axis model		RCP6-WSA16C	RCP6-SA8C				
Stroke (Every 50n	nm)	50~1100mm	50~500mm				
Max an and *	MH	210mm/s	400mm/s				
Max. speed *	HH	365mm/s	650mm/s				
Motor size		56 High-thrust	56 High-thrust				
WOLDI SIZE		pulse motor	pulse motor				
Ball screw	MH	10mm	20mm				
lead	HH	20mm	2011111				
Drive system		Ball screw ø16mm rolled C10	Ball screw ø16mm rolled C10				
Positioning repea	atability	±0.01mm					
Base material		Aluminum					
Ambient operating temperature, humidity		0~40°C, 85% RH or less (non-condensing)					



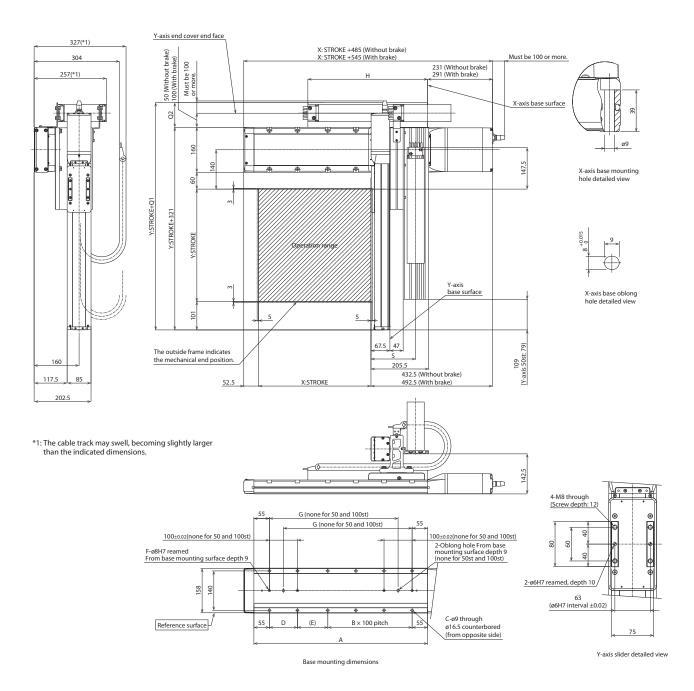
* The max. speed may not be reached if the travel distance is short or acceleration is low.

Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Applicable Controllers		Options				
Controllers are sold separately. Please contact IAI for more informa	ition.	Туре	Option code	Reference page	X-axis	Y-axis
		Brake	B	See P.77	0	0
🗆 X-axis: WSA16C, Y-axis: SA8C		Cable exit direction (Top)	CJT	See P.77	0	
Туре	Reference page	Cable exit direction (Right)	CJR	See P.77	0	Cannot be
PCON-CFB/CGFB	Please see the RCP6 catalog or PCON-CB/CFB manual.	Cable exit direction (Left)	CJL	See P.77	0	selected
P	<u>`</u>	Cable exit direction (Bottom)	CJB	See P.77	0	
		Non-motor end specification	NM	See P.78	0	0
		Slider roller specification	SR	See P.78	0	0



Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*) Notes

The X-axis cable track guide rail is fixed on the X-axis body. Also, the moving end of the Y-axis cable track is to be fixed to a plate or the like mounted on the Y-axis slider by the customer. (See P.79)

Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
A	268	318	368	418	468	518	568	618	668	718	768	818	868	918	968	1018	1068	1118	1168	1218	1268	1318
В	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
С	4	4	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
D	-	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
E	158	208	58	108	58	108	58	108	58	108	58	108	58	108	58	108	58	108	58	108	58	108
F	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
G	-	-	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158
Н	251	276	301	326	351	376	401	426	451	476	501	526	551	576	601	626	651	676	701	726	751	776

 Cable track size
 CT
 CTM
 CTL
 CTML

 Q1
 396.5
 408.5
 423.5
 441.5

 Q2
 75.5
 87.5
 102.5
 120.5

 S
 152.5
 159
 165.5



Y-axis: SA6R (Side-mounted) Z-axis: SA4R (Side-mounted)

Model Specificatio	Series -		— Encoder Type —	— First axis (Y-axis)	Second axis (Z-axis)	Controller —	C	able
ltems	IK2 -		- WA -		<u> </u>	PM1 –	₽-	
	Configuration Direction	Speed Type SM: Y Ultra High-Speed/Z Medium-Speed	Encoder Type WA: Battery-less	Stroke 5: 50mm	Options Refer to Options			irst Second /iring Wiring
	1 to 2 Refer to Configuration Type Descriptions on page	SH: Y Ultra High-Speed/Z High-Speed	Absolute	(Every 50mm)	table below.	Controllers table below.	3L:3m Ca	efer to able Track Jble below.

RoHS



The photograph above shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length

Cubic Lenge		
Туре	Cable code	Length
	1L	1m
Standard type	3L	3m
Standard type	5L	5m
		Specified length (15m max.)

Note 1. All-axis standard cable is used.

Note 2. The length of the second axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track.

Note 3. The standard lengths are 1 m, 3m and 5m, but other lengths can be specified in 1 m increments up to 15m.

SM type: Y ultra high-speed/Z medium-speed (Unit: kg						
Z-axis stroke (mm) deceleration/ G)	50~150 (Every 50mm)					
0.1	1.5					
0.3	1.5					
0.5	1.5					

SH type: Y ultra high-speed/Z high-speed

Z-axis stroke (mm) deceleration/ G)	
0.1	1
0.3	1
0.5	1

* When both Y and Z axes have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

Ca	bl	еT	rac	k

Туре	Model	Reference page	First wiring (Y-axis lateral)	Second wiring (Z-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ		0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0
Cable track L size (inner width: 63mm)	CTL	See P./9	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *

* Only the first wiring can be selected

Specifications

ltem		Y-axis	Z-axis	
Axis model		RCP6-SA6R	RCP6-SA4R	
Stroke (Every 50mm)		50~800mm	50~150mm	
Max. speed *	SM	800mm/s	350mm/s	
Max. speed	SH	00011111/5	610mm/s	
Motor size		42□ Pulse motor	35 Pulse motor	
Ball screw SM		20mm	5mm	
lead	SH	201111	10mm	
Drive system		Ball screw ø10mm rolled C10	Ball screw ø8mm rolled C10	
Positioning repeatability		±0.01mm		
Base material		Aluminum		
Ambient operating temperature, humidity		0~40°C, 85% RH or less (non-condensing)		

Maximum Stroke Yaxis 800 mm Max. Speed (High-speed type) Yaxis 800 mm/s Zaxis 610 mm/s

* The max, speed may not be reached if the travel distance is short or acceleration is low.

Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Applica		Control	OFC
Applica	ore	Control	liers

Controllers are sold separately.

Please contact IAI for more information.

🗆 Y-axis: SA6R, Z-axis: SA4R

_ · · · · · · · · · · · · · · · · · · ·					
Туре	Reference page				
PCON-CB/CGB					
PCON-CYB/PLB/POB (coming soon)	Please see the				
MCON-C/CG	dedicated catalog or manual.				
MCON-LC/LCG (coming soon)	acalcated catalog of manadi.				
MSEL-PC/PG					

Options Reference Option code Y-axis Z-axis Туре page Standard Brake в See P.77 0 equipment * Cannot be 0 Cable exit direction (Outside) CJO See P.77 selected Non-motor end specification NM See P.78 Slider roller specification SR See P.78

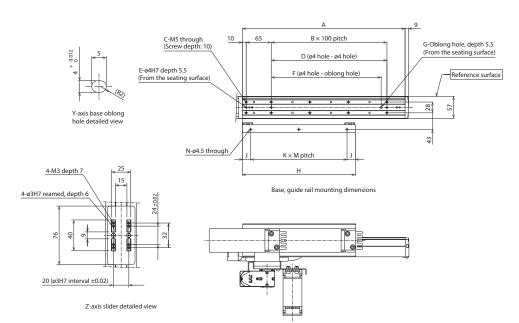
* Be sure to specify.

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

CAD drawings can be downloaded from our website.

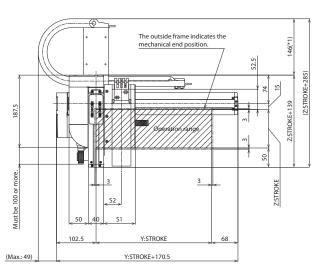
Note 1. The configuration position in the figure is home.

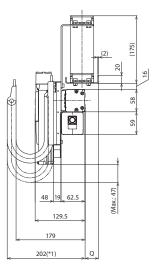
Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



3D CAD

*1: The cable track may swell, becoming slightly larger than the indicated dimensions.





(*) Notes

The Y-axis cable track guide rail is to be fixed to the Y-axis mounting surface by the customer. Please note that there will be an overhang outside the Y-axis mounting surface. Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.

Dimensions by Stroke

Y: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	172	222	272	322	372	422	472	522	572	622	672	722	772	822	872	922
В	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	168	193	218	243	268	293	318	343	368	393	418	443	468	493	518	543
J	9	21.5	9	21.5	9	21.5	9	21.5	9	21.5	9	21.5	9	21.5	34	9
К	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3
М	150	150	200	200	125	125	150	150	175	175	200	200	150	150	150	175
N	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4
Cable track size	CT	CTM	CTL	CTXL												
0	23	35	50	68												

 S1
 82
 94
 107

 S2
 46
 52.5
 59

* Dimensions Q, S1 and S2 change depending on the size of the cable track.

IK2-P6YBD2 **RCP6 2-axis combination**

Y-axis: SA6C (Straight) Z-axis: SA4R (Side-mounted)

(Unit: kg)

	<i>.</i> .	_	- Encoder Turne -	_ First axis	Second axis	Controllor		6 H
Model Specificatio	Series – N IKO –		Encoder Type	(Y-axis)	(Z-axis)	Controller		Cable
ltems	IK2 -		— WA -	- 닏닢	R	PM1 -	- 닏-	- 뉴- 뷰
	Configuration	Speed Type	Encoder Type	Stroke	Options	Controller	Cable	First Second
	Direction 1 to 2	SM: Y Ultra High-Speed/Z Medium-Speed SH: Y Ultra High-Speed/Z High-Speed	WA: Battery-less Absolute	5: 50mm	Refer to Options table below.	Refer to Applicable	Length	Wiring Wiring Refer to
	Refer to Configuration Type Descriptions on page	3		(Every 50mm)		Controllers table below.	3L : 3m 5L : 5m □L: □m	Cable Track table below.

Payload by Acceleration

SM type: Y ultra high-speed/Z medium-speed



Z-axis stroke Acceleration/ deceleration (G)	50~150 (Every 50mm)
0.1	1.5
0.3	1.5
0.5	1.5
	1.5

Z-axis stroke (mm) deceleration (G)	
0.1	1
0.3	1
0.5	1

Reference

page

See P.79

First wiring

(Y-axis lateral)

0

Second wiring

(Z-axis lateral)

0

Cannot be

selected *

* When both Y and Z axes have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

Model

Ν

СТ

СТМ

CTL

CTXL

Cable Length		

Cable Length											
Туре	Cable code	Length									
	1L	1m									
Standard tuna	3L	3m									
Standard type	5L	5m									
		Specified length (15m max.)									

Note 1. All-axis standard cable is used.

Specification

Note 2. The length of the second axis cable is from the exit of the cable track.

A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Cable track XL size (inner width: 80mm) *
* Only the first wiring can be selected

Type

Cable track S size (inner width: 38mm)

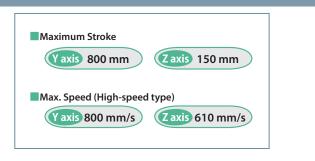
Cable track M size (inner width: 50mm)

Cable track L size (inner width: 63mm)

Without cable track (cable only)

Cable Track

specificatio	ns					
ltem		Y-axis	Z-axis			
Axis model		RCP6-SA6C	RCP6-SA4R			
Stroke (Every 50n	nm)	50~800mm	50~150mm			
Max an and *	SM	000mm /s	350mm/s			
Max. speed *	SH	800mm/s	610mm/s			
Motor size		42□ Pulse motor	35□ Pulse motor			
Ball screw	SM	20mm	5mm			
lead	SH	20mm	10mm			
Drive system		Ball screw ø10mm rolled C10	Ball screw ø8mm rolled C10			
Positioning repea	atability	±0.01mm				
Base material		Aluminum				
Ambient operatir temperature, hur	5	0~40°C, 85% RH or less (non-condensing)				



* The max. speed may not be reached if the travel distance is short or acceleration is low.

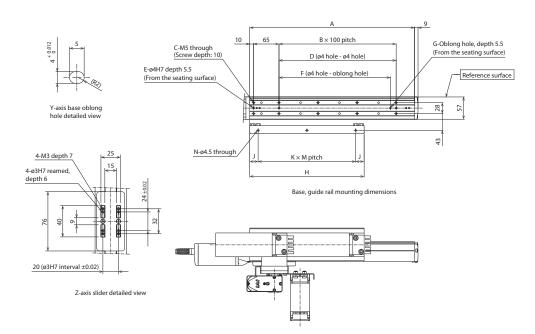
Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Options							
Option cod	ode Reference page	Y-axis	Z-axis				
В	See P.77	0	Standard equipment *				
CJT	See P.77	0					
CJR	See P.77	0	Cannot be				
CJL	See P.77	0	selected				
CJB	See P.77	0					
NM	See P.78	0	0				
SR	See P.78	0	0				
	SR	SR See P.78	SR See P.78 O				

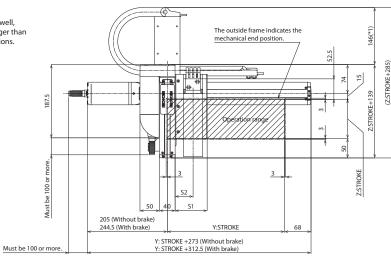
to the MCON controller, "High-output setting specification" must be Please contact IAI regarding use with the high-output setting disabled. CAD drawings can be downloaded from our website.

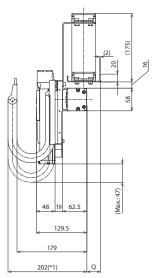
Note 1. The configuration position in the figure is home.

Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



*1: The cable track may swell, becoming slightly larger than the indicated dimensions.





(*) Notes

The Y-axis cable track guide rail is to be fixed to the Y-axis mounting surface by the customer. Please note that there will be an overhang outside the Y-axis mounting surface. Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.

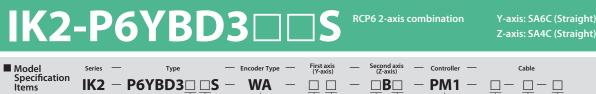
Dimensions by Stroke

Y: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	172	222	272	322	372	422	472	522	572	622	672	722	772	822	872	922
В	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	168	193	218	243	268	293	318	343	368	393	418	443	468	493	518	543
J	9	21.5	9	21.5	9	21.5	9	21.5	9	21.5	9	21.5	9	21.5	34	9
К	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3
М	150	150	200	200	125	125	150	150	175	175	200	200	150	150	150	175
N	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4
Cable track size	CT	CTM	CTL	CTXL												
Q	23	35	50	68												

 S1
 82
 94
 107

 S2
 46
 52.5
 59

* Dimensions Q, S1 and S2 change depending on the size of the cable track.



Configuration Direction Speed Type SM: Y Ultra High-Speed/Z Medium-Speed SH: Y Ultra High-Speed/Z High-Speed 1 to 2 S Refer to Configuration Type Descriptions on page 3

Stroke Options Encoder Type Refer to Options table below WA: Battery-less Absolute 5: 50mm (Every 50mm)

First Wiring Cable econd Wiring Length 1L : 1m 3L : 3m 5L : 5m □L: □m Refer to Cable Track table below



The photograph above shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length	

Туре	Cable code	Length			
	1L	1m			
Cham day day a	3L	3m			
Standard type	5L	5m			
		Specified length (15m max.)			

Note 1. All-axis standard cable is used.

Note 2. The length of the second axis cable is from the exit of the cable track.

A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Payload by Acceleration							
SM type: Y ultra high-speed/Z medium-speed							
Z-axis stroke (mm) deceleration (G)	50~150 (Every 50mm)						
0.1	1.5						
0.3	1.5						
0.5	1.5						

Controller

Refer to Applicable Controllers table below

SH type: Y ultra high-speed/Z high-speed

Z-axis stroke (mm) deceleration (G)	50~150 (Every 50mm)
0.1	1
0.3	1
0.5	1

* When both Y and Z axes have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

Cable Track

Туре	Model	Reference page	First wiring (Y-axis lateral)	Second wiring (Z-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ		0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0
Cable track L size (inner width: 63mm)	CTL	See P.79	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *

* Only the first wiring can be selected

Specificatio	ons				
ltem		Y-axis	Z-axis		
Axis model		RCP6-SA6C	RCP6-SA4C		
Stroke (Every 50	mm)	50~800mm	50~150mm		
NA	SM	000	350mm/s		
Max. speed *	SH	800mm/s	610mm/s		
Motor size		42 Pulse motor	35 Pulse motor		
Ball screw	SM	20	5mm		
lead	SH	20mm	10mm		
Drive system		Ball screw ø10mm rolled C10	Ball screw ø8mm rolled C10		
Positioning repe	atability	±0.01mm			
Base material		Aluminum			
Ambient operating temperature, humidity		0~40°C, 85% RH or less (non-condensing)			

Maximum Stroke Yaxis 800 mm Z axis 150 mm Max. Speed (High-speed type) Y axis 800 mm/s Z axis 610 mm/s

* The max. speed may not be reached if the travel distance is short or acceleration is low.

Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

An	nlicable	Controllers	

Controllers are sold separately.

Please contact IAI for more information.

□ Y-axis: SA6C, Z-axis: SA4C

Туре	Reference page						
PCON-CB/CGB							
PCON-CYB/PLB/POB (coming soon)	Please see the						
MCON-C/CG	dedicated catalog or manual.						
MCON-LC/LCG (coming soon)	dealeated catalog of manual.						
MSEL-PC/PG							

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Options

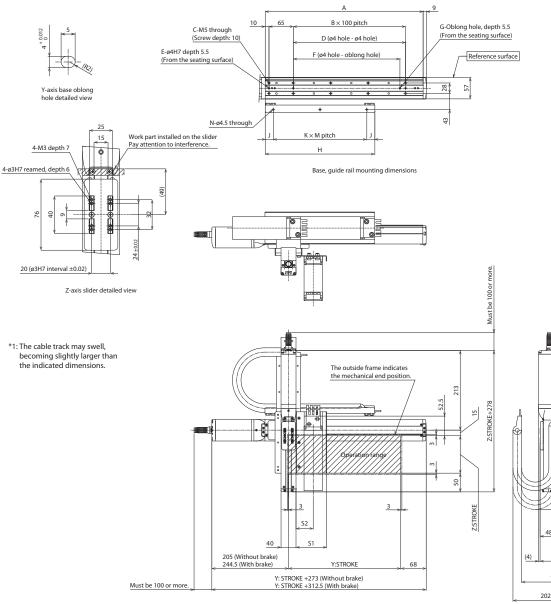
Туре	Option code	Reference page	Y-axis	Z-axis
Brake	В	See P.77	0	Standard equipment *
Cable exit direction (Top)	CJT	See P.77	0	
Cable exit direction (Right)	CJR	See P.77	0	Cannot be
Cable exit direction (Left)	CJL	See P.77	0	selected
Cable exit direction (Bottom)	CJB	See P.77	0	
Non-motor end specification	NM	See P.78	0	0
Slider roller specification	SR	See P.78	0	0

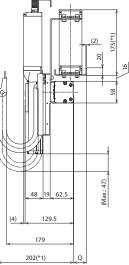
* Be sure to specify.

CAD drawings can be downloaded from our website.

3D CAD Note 1. The configuration position in the figure is home.

Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.





(*) Notes

The Y-axis cable track guide rail is to be fixed to the Y-axis mounting surface by the customer. Please note that there will be an overhang outside the Y-axis mounting surface. Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.

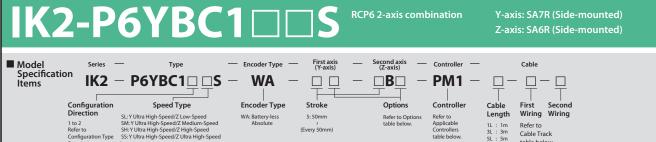
Dimensions by Stroke

Y: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	172	222	272	322	372	422	472	522	572	622	672	722	772	822	872	922
В	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
С	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	168	193	218	243	268	293	318	343	368	393	418	443	468	493	518	543
J	9	21.5	9	21.5	9	21.5	9	21.5	9	21.5	9	21.5	9	21.5	34	9
К	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3
М	150	150	200	200	125	125	150	150	175	175	200	200	150	150	150	175
N	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4
Cable track size	CT	CTM	CTL	CTXL												
Q	23	35	50	68												

 S1
 82
 94
 107

 S2
 46
 52.5
 59

 * Dimensions Q, S1 and S2 change depending on the size of the cable track.



SL: Y Ultra High-Speed/Z Low-Speed SM: Y Ultra High-Speed/Z Medium-Speed SH: Y Ultra High-Speed/Z High-Speed SS: Y Ultra High-Speed/Z Ultra High-Speed 1 to 2 S Refer to S Configuration Type S Descriptions on page 3

Payload by Acceleration

1L : 1m 3L : 3m 5L : 5m □L: □m Cable Track table below

speed/	SM type: Y ultra high-speed/ Z medium-speed (Unit				
E0 200	Z-axis stroke (mm) deceleration (G)	50~200 (Every 50mm)			
3	0.1	2			
3	0.3	2			
0.5 2.5		2			
-speed/	SS type: Y ultra high-speed/ Z ultra high-speed				
E0 200	Z-axis stroke Acceleration/ (mm)	50~200 (Every 50mm)			
(2001) 501111	deceleration (G)				
1	deceleration (G) 0.1	0.5			
1		0.5			
)	(Every 50mm) 3 2.5 -speed/ 50~200	Z medium-speed Z-axis stroke Acceleration/ (Every 50mm) 3 0.1 3 0.3 0.3 0.5 -speed/ S5 type: Y ultra high-speed Z-axis stroke Acceleration/ deceleration (G) 0.5 -speed/ S5 type: Y ultra high-speed Z-axis stroke Acceleration/ Charlen Stroke Charlen Stroke Ch			

* When both Y and Z axes have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

Cable Length

RoHS

Туре	Cable code	Length						
Standard type	1L	1m						
	3L	3m						
	5L	5m						
		Specified length (15m max.)						

The photograph above shows the configuration direction "1" where both the first

Note 1. All-axis standard cable is used.

wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

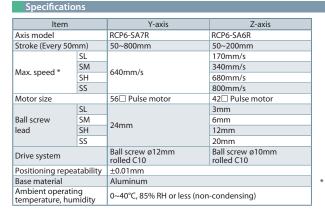
Note 2. The length of the second axis cable is from the exit of the cable track.

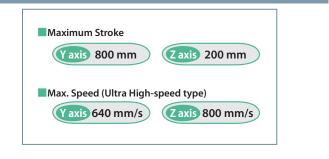
A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Туре	Model	Reference page	First wiring (Y-axis lateral)	Second wiring (Z-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ		0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0
Cable track L size (inner width: 63mm)	CTL	See P.79	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *

* Only the first wiring can be selected

Cable Track





* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke.

For details, refer to the Maximum Speed by Stroke table on P.80.

	App	licable	Cont	rollers		
~						

Controllers are sold separately. Please contact IAI for more information.

□ Y-axis: SA7R, Z-axis: SA6R

Туре	Reference page
PCON-CB/CGB	
PCON-CYB/PLB/POB (coming soon)	Please see the
MCON-C/CG	dedicated catalog or manual.
MCON-LC/LCG (coming soon)	
MSEL-PC/PG	

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Options								
Option code	Reference page	Y-axis	Z-axis					
В	See P.77	0	Standard equipment *					
CJO	See P.77	0	Cannot be selected					
NM	See P.78	0	0					
SR	See P.78	0	0					
	B CJO NM	Option code page B See P.77 CJO See P.77 NM See P.78	Option code page Y-axis B See P.77 O CJO See P.77 O NM See P.78 O					

* Be sure to specify.

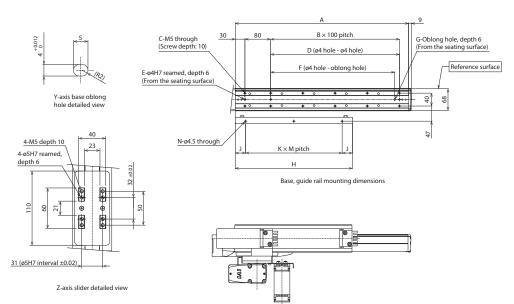
Dimensions

CAD drawings can be downloaded from our website. WWW.robocylinder.de

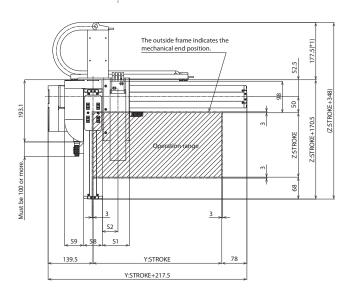
AD 3D CAD

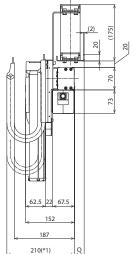
Note 1. The configuration position in the figure is home.

Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



*1: The cable track may swell, becoming slightly larger than the indicated dimensions.





(*) Notes

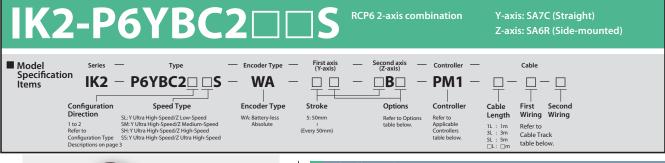
The Y-axis cable track guide rail is to be fixed to the Y-axis mounting surface by the customer. Please note that there will be an overhang outside the Y-axis mounting surface. Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.

Dimensions by Stroke

Y: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	188	238	288	338	388	438	488	538	588	638	688	738	788	838	888	938
В	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	0	0	100	200	200	300	300	400	400	500	500	600	600	700	700	800
E	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	189	214	239	264	289	314	339	364	389	414	439	464	489	514	539	564
J	19.5	32	19.5	32	19.5	32	19.5	32	19.5	32	19.5	32	19.5	32	44.5	19.5
К	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3
М	150	150	200	200	250	250	150	150	175	175	200	200	150	150	150	175
N	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4
Cable track size	CT	CTM	CTL	CTXL												
0	18	30	45	63	1											

Q	10	50	45	05
S1	84.5	96.5	109.5	-
S2	48.5	55	61.5	-

 * Dimensions Q, S1 and S2 change depending on the size of the cable track.





Payload by Acceleration								
SL type: Y ultra high-s Z low-speed	speed/	SM type: Y ultra high- Z medium-speed	speed/ (Unit: kg)					
Z-axis stroke Acceleration/ (mm) deceleration (G) (Every 50mm		Z-axis stroke Acceleration/ deceleration (G)	50~200 (Every 50mm)					
0.1	3	0.1	2					
0.3	3	0.3	2					
0.5	2.5	0.5	2					
SH type: Y ultra high- Z high-speed	speed/	SS type: Y ultra high-s Z ultra high-speed	speed/					
Z-axis stroke Acceleration/ deceleration (G)	50~200 (Every 50mm)	Z-axis stroke Acceleration/ deceleration (G)	50~200 (Every 50mm)					
0.1	1	0.1	0.5					
0.3	1	0.3	0.5					
0.5	1	0.5	0.5					
* When both Y and 7 axes have	* When both Y and 7 axes have the same acceleration/deceleration When there is significant							

on/deceleration. W en there is significant vibration, decrease the speed and acceleration/deceleration as required.

Cable Length

cable Length								
Туре	Cable code	Length						
	1L	1m						
Cham daud tuma	3L	3m						
Standard type	5L	5m						
		Specified length (15m max.)						

Note 1. All-axis standard cable is used.

wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

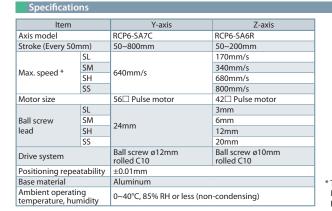
Note 2. The length of the second axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track.

Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Туре	Model	Reference page	First wiring (Y-axis lateral)	Second wiring (Z-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ		0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0
Cable track L size (inner width: 63mm)	CTL	See P.79	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *

* Only the first wiring can be selected

Cable Track



Yaxis 800 mm Z axis 200 mm Max. Speed (Ultra High-speed type) Y axis 640 mm/s Z axis 800 mm/s

The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke.

For details, refer to the Maximum Speed by Stroke table on P.80.

Maximum Stroke

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information.

□ Y-axis: SA7C, Z-axis: SA6R

Туре	Reference page			
PCON-CB/CGB				
PCON-CYB/PLB/POB (coming soon)	Please see the			
MCON-C/CG	dedicated catalog or manual.			
MCON-LC/LCG (coming soon)	accileated catalog of manual.			
MSEL-PC/PG				

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Options				
Туре	Option code	Reference page	Y-axis	Z-axis
Brake	В	See P.77	0	Standard equipment *
Cable exit direction (Top)	CJT	See P.77	0	
Cable exit direction (Right)	CJR	See P.77	0	Cannot be
Cable exit direction (Left)	CJL	See P.77	0	selected
Cable exit direction (Bottom)	CJB	See P.77	0	
Non-motor end specification	NM	See P.78	0	0
Slider roller specification	SR	See P.78	0	0

* Be sure to specify

Ontion

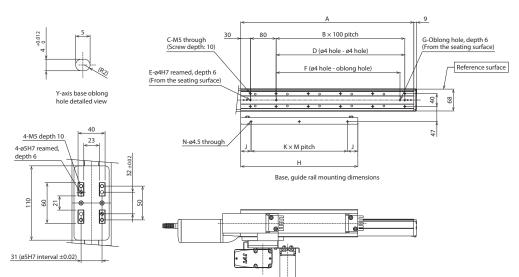
43 IK2-P6YBC2



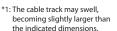
CAD drawings can be downloaded from our website. (2D CAD (CAD) (CAD) (CAD)

Note 1. The configuration position in the figure is home.

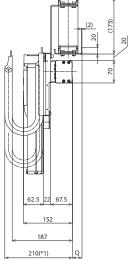
Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



Z-axis slider detailed view



The outside frame indicates the 77.5(*1 mechanical end position 52.5 (Z:STROKE+348) 50 193.1 Z:STROKE+170.5 Z:STROKE Must be 100 or more 89 3 S2 S1 264 (Without brake) 314 (With brake) Y:STROKE 78 Y: STROKE +342 (Without brake) Must be 100 or more Y: STROKE +392 (With brake)



(*) Notes

The Y-axis cable track guide rail is to be fixed to the Y-axis mounting surface by the customer. Please note that there will be an overhang outside the Y-axis mounting surface. Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.

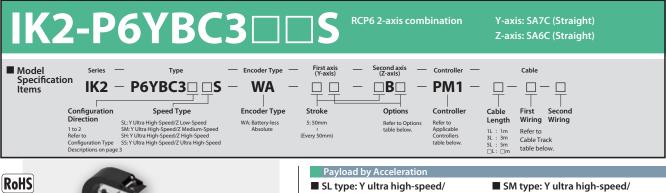
Dimensions by Stroke

Y: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	188	238	288	338	388	438	488	538	588	638	688	738	788	838	888	938
В	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	0	0	100	200	200	300	300	400	400	500	500	600	600	700	700	800
E	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	189	214	239	264	289	314	339	364	389	414	439	464	489	514	539	564
J	19.5	32	19.5	32	19.5	32	19.5	32	19.5	32	19.5	32	19.5	32	44.5	19.5
К	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3
М	150	150	200	200	250	250	150	150	175	175	200	200	150	150	150	175
N	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4
Cable track size	CT	CTM	CTL	CTXL												
0	18	30	45	63												

 S1
 84.5
 96.5
 109.5

 S2
 48.5
 55
 61.5

* Dimensions Q, S1 and S2 change depending on the size of the cable track.





Payload by Acceleration	on		
SL type: Y ultra high-s Z low-speed	speed/	SM type: Y ultra high- Z medium-speed	speed/ (Unit: kg)
Z-axis stroke Acceleration/ deceleration (G)	50~200 (Every 50mm)	Z-axis stroke (mm) deceleration (G)	50~200 (Every 50mm)
0.1	3	0.1	2
0.3	3	0.3	2
0.5	2.5	0.5	2
SH type: Y ultra high- Z high-speed	speed/	SS type: Y ultra high-s Z ultra high-speed	speed/
Z-axis stroke Acceleration/ deceleration (G)	50~200 (Every 50mm)	Z-axis stroke (mm) deceleration (G)	50~200 (Every 50mm)
0.1	1	0.1	0.5
0.3	1	0.3	0.5
		0.5	0.5

When both Y and Z axes have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

Cable Length

wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length								
Туре	Cable code	Length						
	1L	1m						
Chan doud huma	3L	3m						
Standard type	5L	5m						
		Specified length (15m max.)						

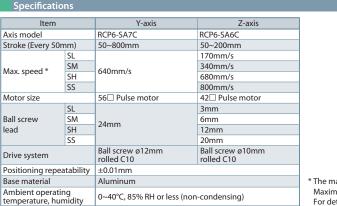
Note 1. All-axis standard cable is used.

Note 2. The length of the second axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track.

Note 3. The standard lengths are 1 m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Cable Track				
Туре	Model	Reference page	First wiring (Y-axis lateral)	Second wiring (Z-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ		0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0
Cable track L size (inner width: 63mm)	CTL	See F.79	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *

* Only the first wiring can be selected



Maximum Stroke Yaxis 800 mm Zaxis 200 mm Max. Speed (Ultra High-speed type) Z axis 800 mm/s Y axis 640 mm/s

* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information.

□ Y-axis: SA7C, Z-axis: SA6C

Reference page Type PCON-CB/CGB PCON-CYB/PLB/POB (coming soon) Please see the MCON-C/CG dedicated catalog or manual. MCON-LC/LCG (coming soon) MSEL-PC/PG

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Options				
Туре	Option code	Reference page	Y-axis	Z-axis
Brake	В	See P.77	0	Standard equipment *
Cable exit direction (Top)	CJT	See P.77	0	
Cable exit direction (Right)	CJR	See P.77	0	Cannot be
Cable exit direction (Left)	CJL	See P.77	0	selected
Cable exit direction (Bottom)	CJB	See P.77	0	
Non-motor end specification	NM	See P.78	0	0
Slider roller specification	SR	See P.78	0	0

* Be sure to specify

175(*1)

20

20

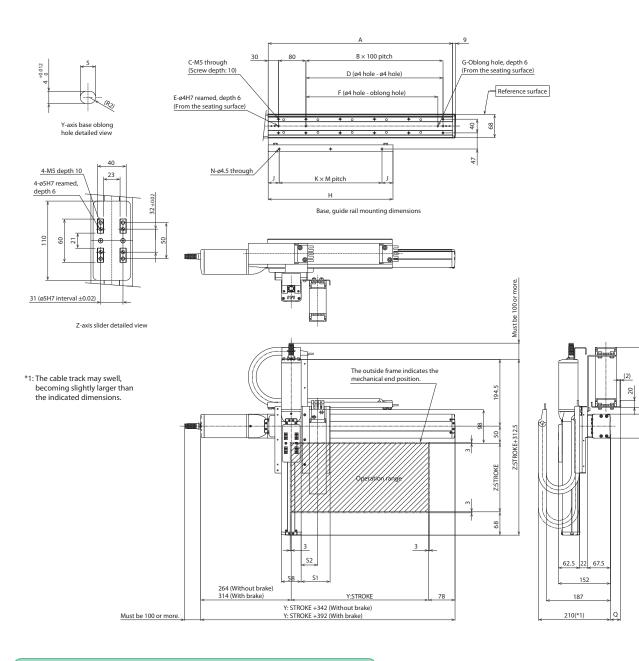


CAD drawings can be downloaded from our website.



Note 1. The configuration position in the figure is home.

Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*) Notes

The Y-axis cable track guide rail is to be fixed to the Y-axis mounting surface by the customer. Please note that there will be an overhang outside the Y-axis mounting surface. Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.

Dimensions by Stroke

Y: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	188	238	288	338	388	438	488	538	588	638	688	738	788	838	888	938
В	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
С	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	0	0	100	200	200	300	300	400	400	500	500	600	600	700	700	800
E	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	189	214	239	264	289	314	339	364	389	414	439	464	489	514	539	564
J	19.5	32	19.5	32	19.5	32	19.5	32	19.5	32	19.5	32	19.5	32	44.5	19.5
К	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3
М	150	150	200	200	250	250	150	150	175	175	200	200	150	150	150	175
N	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4
Cable track size	CT	CTM	CTL	CTXL												
Q	18	30	45	63												

 S1
 84.5
 96.5
 109.5

 S2
 48.5
 55
 61.5

* Dimensions Q, S1 and S2 change depending on the size of the cable track.

RoHS

Cable Length

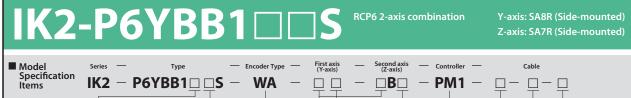
Type

Standard type

Cable code

1L

3L



Configuration Direction HL: Y High-Sp HM: Y High-Sp SH: Y Ultra Hig SS: Y Ultra Hig 1 to 2 Refer to Configuration Type Descriptions on page 3

		++			부	부	H		
Speed Type Speed/Z Low-Speed Speed/Z Medium-Speed High-Speed/Z High-Speed Iigh-Speed/Z Ultra High-Speed	Encoder Type WA: Battery-less Absolute	Stroke 5: 50mm (Every 50mm)	Options Refer to Options table below.	Controller Refer to Applicable Controllers table below.	Cable Length 1L : 1m 3L : 3m 5L : 5m □L: □m	First Wiring Refer to Cable Tra table bel	ack		
		Payload	d by Acceleration						
		■ HL type Z low-sp	: Y high-speed/ peed				Y high-speed n-speed	d/	(Unit: kg)
			Z-axis stroke	50, 200			Z-axis stroke	50	200

The photograph above shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Please refer to P.3 for other configuration directions.

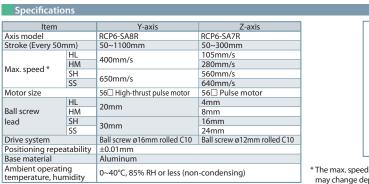
Z low-speed		Z medium-speed	(Unit: kg)
Z-axis stroke Acceleration/ (mm) deceleration (G)	50~300 (Every 50mm)	Z-axis stroke Acceleration/ (mm) deceleration (G)	50~300 (Every 50mm)
0.1	9	0.1	4.5
0.3	8	0.3	4
0.5	7	0.5	3.5
SH type: Y ultra high- Z high-speed	speed/	SS type: Y ultra high- Z ultra high-speed	speed/
Z-axis stroke (mm) deceleration (G)	50~300 (Every 50mm)	Z-axis stroke (mm) deceleration (G)	50~200 250~300 (Every (Every 50mm) 50mm)
0.1	3	0.1	1.5
0.3	2	0.3	1.5
0.5	Z	0.3	1.5

* When both Y and Z axes have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

Cable Track

Туре	Model	Reference page	First wiring (Y-axis lateral)	Second wiring (Z-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ		0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0
Cable track L size (inner width: 63mm)	CTL	See P.79	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *

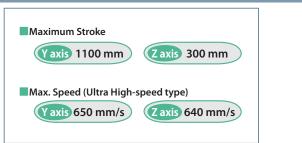
selected



Length

1m

3m



* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Applicable Controllers

Controllers are sold separately.

Please contact IAI for more information.

□ Y-axis: SA8R

Туре	Reference page
PCON-CFB/CGFB	Please see the RCP6 catalog or PCON-CB/CFB manual.
🗆 Z-axis: SA7R	
Туре	Reference page
PCON-CB/CGB	
PCON-CYB/PLB/POB (coming soon)	Please see the
MCON-C/CG	dedicated catalog or manual.
MCON-LC/LCG (coming soon)	
MSEL-PC/PG	

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Options				
Туре	Option code	Reference page	Y-axis	Z-axis
Brake	В	See P.77	0	Standard equipment *
Cable exit direction (Outside)	сло	See P.77	0	Cannot be selected
Non-motor end specification	NM	See P.78	0	0
Slider roller specification	SR	See P.78	0	0

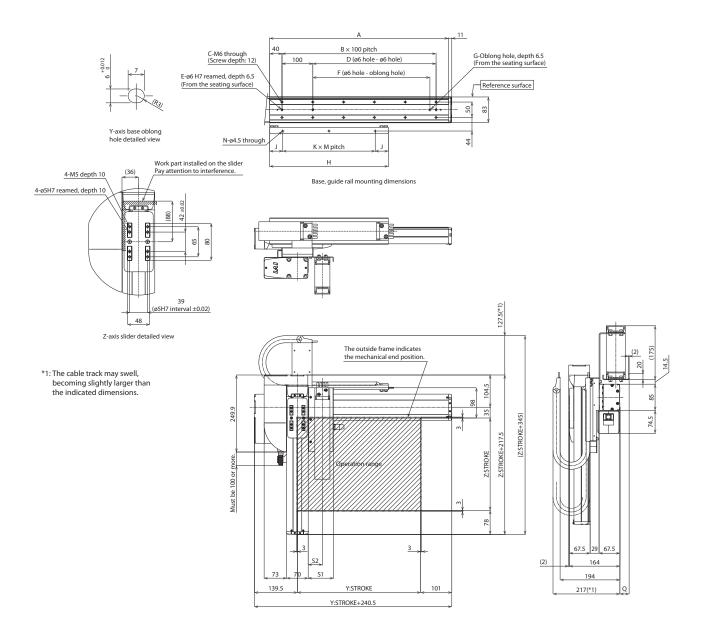
* Be sure to specify.

Standard type	5L	5m		Without cable track (cable on		
		Cable track S size (inner width				
Note 1. All-axis sta	Cable track M size (inner wid					
Note 2. The lengt		Cable track L size (inner widtl				
A separate Note 3. The stand in 1m incr		Cable track XL size (inner wid				
in miner	ements up to 15m.			* Only the first wiring can be s		

CAD drawings can be downloaded from our website 3D CAD 2D CAD www.robocylinder.de

Note 1. The configuration position in the figure is home.

Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*) Notes

The Y-axis cable track guide rail is to be fixed to the Y-axis mounting surface by the customer. Please note that there will be an overhang outside the Y-axis mounting surface. Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.

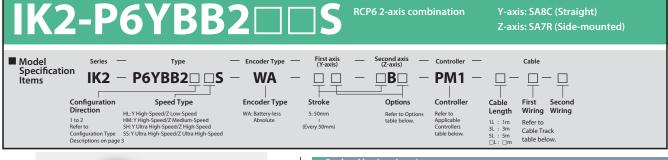
-

Dimensions by Stroke

-																						
Y: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
A	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280
В	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
D	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800	800	900	900	1000	1000	1100
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	0	80	180	180	280	280	380	380	480	480	580	580	680	680	780	780	880	880	980	980	1080
G	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	210	235	260	285	310	335	360	385	410	435	460	485	510	535	560	585	610	635	660	685	710	735
J	30	42.5	30	42.5	30	42.5	30	42.5	30	42.5	30	42.5	30	42.5	55	30	42.5	55	30	42.5	55	17.5
K	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4
М	150	150	200	200	125	125	150	150	175	175	200	200	150	150	150	175	175	175	200	200	200	175
N	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
Cable track size	CT	CTM	CTL	CTXL																		
Q	18	30	45	63																		

94 107 52.5 59 S2 46

82





Payload by Accelerati	on								
HL type: Y high-speed Z low-speed	1/	■ HM type: Y high-speed/ Z medium-speed (U							
Z-axis stroke Acceleration/ deceleration (G)	50~300 (Every 50mm)	Z-axis stroke Acceleration/ deceleration (G)	50~300 (Every 50mm)						
0.1	9	0.1	4.5						
0.3	8	0.3	4						
0.5	7	0.5	3.5						
SH type: Y ultra high- Z high-speed	speed/	SS type: Y ultra high-s Z ultra high-speed	peed/						
Z-axis stroke Acceleration/ deceleration (G)	50~300 (Every 50mm)	Z-axis stroke Acceleration/ deceleration (G)	50~200 250~300 (Every (Every 50mm) 50mm)						
0.1	3	0.1	1.5						
0.3	2	0.3	1.5						
0.5	1.5	0.5	1.5 1						

* When both Y and Z axes have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

Cable Lengt	h	
Туре	Cable code	Length
	1L	1m
Cham day day a	3L	3m
Standard type	5L	5m
		Specified length (15m max)

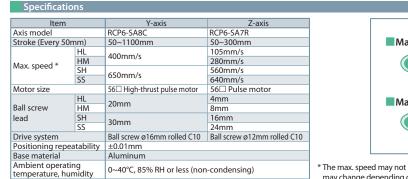
Note 1. All-axis standard cable is used.

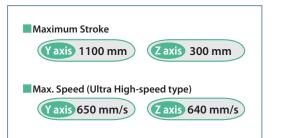
Note 2. The length of the second axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track.

Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Cable Track												
Туре	Model	Reference page	First wiring (Y-axis lateral)	Second wiring (Z-axis lateral)								
Without cable track (cable only)	N		0	0								
Cable track S size (inner width: 38mm)	СТ		0	0								
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0								
Cable track L size (inner width: 63mm)	CTL	See P.79	0	0								
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *								

* Only the first wiring can be selected





* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Ap	plical	ole (Cont	troll	ers

Controllers are sold separately.

Please contact IAI for more information.

□ Y-axis: SA8C

Туре	Reference page								
PCON-CFB/CGFB	Please see the RCP6 catalog or PCON-CB/CFB manual.								
🗆 Z-axis: SA7R									
Туре	Reference page								
PCON-CB/CGB									
PCON-CYB/PLB/POB (coming soon)	Please see the								
MCON-C/CG	dedicated catalog or manual.								
MCON-LC/LCG (coming soon)									
MSEL-PC/PG									

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Туре	Option code	Reference page	Y-axis	Z-axis	
Brake	В	See P.77	0	Standard equipment *	
Cable exit direction (Top)	CJT	See P.77	0		
Cable exit direction (Right)	CJR	See P.77	0	Cannot be	
Cable exit direction (Left)	CJL	See P.77	0	selected	
Cable exit direction (Bottom)	CJB	See P.77	0		
Non-motor end specification	NM	See P.78	0	0	
Slider roller specification	SR	See P.78	0	0	

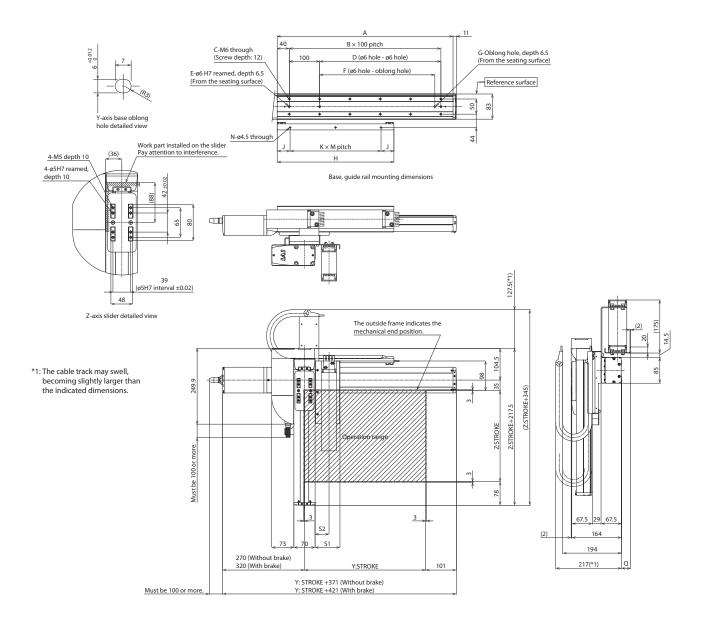
* Be sure to specify.

Ontions



Note 1. The configuration position in the figure is home.

Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*) Notes

The Y-axis cable track guide rail is to be fixed to the Y-axis mounting surface by the customer. Please note that there will be an overhang outside the Y-axis mounting surface. Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.

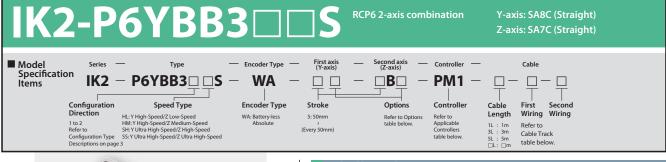
Dimensions by Stroke

Y: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
A	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280
В	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
D	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800	800	900	900	1000	1000	1100
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	0	80	180	180	280	280	380	380	480	480	580	580	680	680	780	780	880	880	980	980	1080
G	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
н	210	235	260	285	310	335	360	385	410	435	460	485	510	535	560	585	610	635	660	685	710	735
J	30	42.5	30	42.5	30	42.5	30	42.5	30	42.5	30	42.5	30	42.5	55	30	42.5	55	30	42.5	55	17.5
K	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4
M	150	150	200	200	125	125	150	150	175	175	200	200	150	150	150	175	175	175	200	200	200	175
N	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
					1																	
Cable track size	CT	CTM	CTL	CTXL																		
Q	18	30	45	63																		

 S1
 82
 94
 107

 S2
 46
 52.5
 59

* Dimensions Q, S1 and S2 change depending on the size of the cable track.





Cable code

1L

3L

5L

Note 2. The length of the second axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

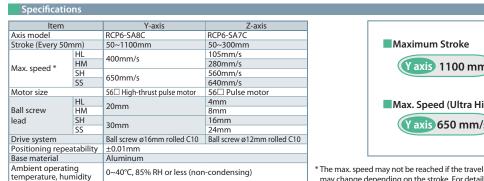
Payload by Acceleration HL type: Y high-speed Z low-speed		HM type: Y high-speed/ Z medium-speed (Unit: k								
Z-axis stroke (mm) deceleration/ G	50~300 (Every 50mm)	Z-axis stroke Acceleration/ deceleration (G)	(Unit: kg 50~300 (Every 50mm)							
0.1	9	0.1	4.5							
0.3	8	0.3	4							
0.5	7	0.5	3.5							
0.5	/	0.5	5.5							
SH type: Y ultra high- Z high-speed		SS type: Y ultra high- Z ultra high-speed								
SH type: Y ultra high-		SS type: Y ultra high-	speed/							
SH type: Y ultra high-s Z high-speed Z-axis stroke Acceleration/	speed/	SS type: Y ultra high- Z ultra high-speed Z-axis stroke Acceleration/	speed/ 50~200 250~300 (Every (Every							
SH type: Y ultra high- Z high-speed Z-axis stroke Acceleration/ deceleration (G)	50~300 (Every 50mm)	SS type: Y ultra high- Z ultra high-speed Z-axis stroke Acceleration/ (mm) deceleration (G)	50~200 250~30 (Every (Every 50mm) 50mm)							

hen both Y and **Z** on/deceleration. W en there is significant vibration, decrease the speed and acceleration/deceleration as required.

Cable Track

Туре	Model	Reference page	First wiring (Y-axis lateral)	Second wiring (Z-axis lateral)
Without cable track (cable only)	N		0	0
Cable track S size (inner width: 38mm)	СТ		0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0
Cable track L size (inner width: 63mm)	CTL	See P.79	0	0
Cable track XL size (inner width: 80mm) *	CTXL		0	Cannot be selected *

* Only the first wiring can be selected



Length

1m

3m

5m Specified length (15m max.)

> Zaxis 300 mm **Y axis** 1100 mm Max. Speed (Ultra High-speed type) Y axis 650 mm/s Z axis 640 mm/s

* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Applicable Controllers

Cable Length

Note 1. All-axis standard cable is used.

Type

Standard type

Controllers are sold separately.

Please contact IAI for more information.

□ Y-axis: SA8C

Туре	Reference page							
PCON-CFB/CGFB	Please see the RCP6 catalog or PCON-CB/CFB manual.							
🗆 Z-axis: SA7C								
Туре	Reference page							
PCON-CB/CGB								
PCON-CYB/PLB/POB (coming soon)	Please see the							
MCON-C/CG	dedicated catalog or manual.							
MCON-LC/LCG (coming soon)	acaleated catalog of manadi							
MSEL-PC/PG	-							

0~40°C, 85% RH or less (non-condensing)

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Туре	Option code	Reference page	Y-axis	Z-axis	
Brake	В	See P.77	0	Standard equipment *	
Cable exit direction (Top)	CJT	See P.77	0		
Cable exit direction (Right)	CJR	See P.77	0	Cannot be	
Cable exit direction (Left)	CJL	See P.77	0	selected	
Cable exit direction (Bottom)	CJB	See P.77	0		
Non-motor end specification	NM	See P.78	0	0	
Slider roller specification	SR	See P.78	0	0	

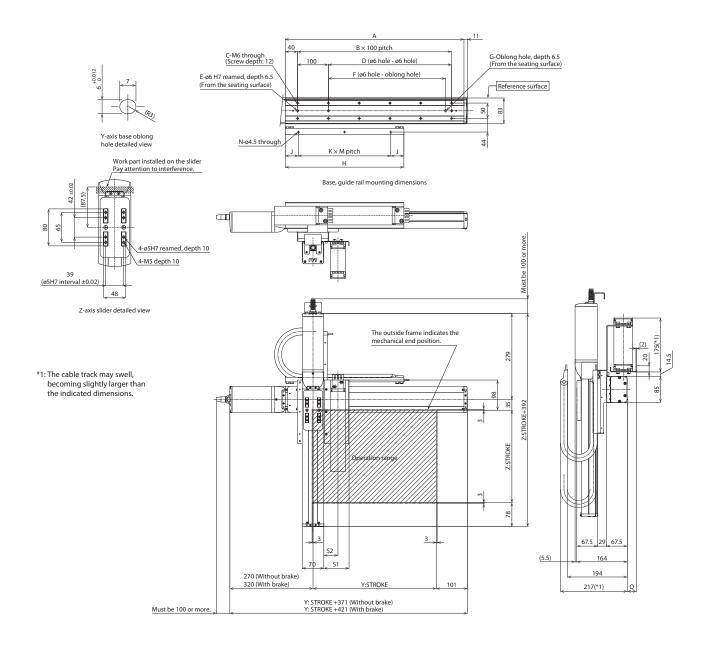
* Be sure to specify.

Ontions

CAD drawings can be downloaded from our website 3D CAD 2D CAD www.robocylinder.de

Note 1. The configuration position in the figure is home.

Note 2. The diagram shows the configuration direction "1" where both the first wiring and second wiring have cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*) Notes

The Y-axis cable track guide rail is to be fixed to the Y-axis mounting surface by the customer. Please note that there will be an overhang outside the Y-axis mounting surface. Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.

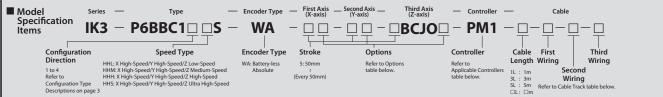
Dimensions by Stroke

Y: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
A	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280
В	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
D	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800	800	900	900	1000	1000	1100
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	0	80	180	180	280	280	380	380	480	480	580	580	680	680	780	780	880	880	980	980	1080
G	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	210	235	260	285	310	335	360	385	410	435	460	485	510	535	560	585	610	635	660	685	710	735
J	30	42.5	30	42.5	30	42.5	30	42.5	30	42.5	30	42.5	30	42.5	55	30	42.5	55	30	42.5	55	17.5
К	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4
M	150	150	200	200	125	125	150	150	175	175	200	200	150	150	150	175	175	175	200	200	200	175
N	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
					1																	
Cable track size	CT	CTM	CTL	CTXL																		
Q	18	30	45	63																		
S1	82	94	107	-																		
S2	46	52.5	59	-																		

* Dimensions Q, S1 and S2 change depending on the size of the cable track.









Paylo	bad by A	celeration
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- HHL type: X high-speed/Y high-speed/Z low-speed
- HHM type: X high-speed/Y high-speed/Z medium-speed
- HHH type: X high-speed/Y high-speed/Z high-speed

HHS type: X high-speed/Y high-speed/Z ultra high-speed

71 5		•	5 1	(ornang)
Speed Type Acceleration/ deceleration (G)	HHL	ННМ	ННН	HHS
0.1	3	2	1	0.5
0.3	3	2	1	0.5
0.5	-	-	1	0.5

(Unit ka)

* When X, Y and Z axes all have the same acceleration/deceleration.

When there is significant vibration, decrease the speed and acceleration/deceleration as required.

The photograph above shows the configuration direction "1" where all axes have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length

Specifications

Туре	Cable code	Length
	1L	1m
Standard	3L	3m
type	5L	5m
		Specified length (15m max.)

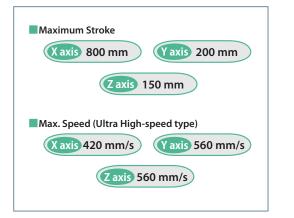
Note 1. All-axis standard cable is used. Note 2. The length of the second and third axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Cable Track

Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)	Third wiring (Z-axis lateral)
Without cable track (cable only)	N		0	0	0
Cable track S size (inner width: 38mm)	СТ		0	0	0
Cable track M size (inner width: 50mm)	СТМ	C D 70	0	0	0
Cable track L size (inner width: 63mm)	CTL See P.79		0	0	Cannot be selected *1
Cable track XL size (inner width: 80mm)	CTXL	1	0	Cannot be	selected *2

*1 Only the first and second wiring can be selected *2 Only the first wiring can be selected

ltem		X-axis Y-axis		Z-axis			
Axis model		RCP6-SA7R	RCP6-SA6R	RCP6-SA4R			
Stroke (Every 50	mm)	50~800mm	50~200mm	50~150mm			
	HHL			150mm/s			
Max an and *	HHM	420mm/s	560mm/s	305mm/s			
Max. speed *	HHH	420mm/s	Southin/s	525mm/s			
	HHS			560mm/s			
Motor size		56 Pulse motor	42 Pulse motor	35□ Pulse motor			
	HHL			2.5mm			
Ball screw	HHM	16mm	12mm	5mm			
lead	HHH	Tomm	12mm	10mm			
	HHS			16mm			
Drive system		Ball screw ø12mm rolled C10	Ball screw ø10mm rolled C10	Ball screw ø8mm rolled C10			
Positioning repeatability		±0.01mm					
Base material		Aluminum					
Ambient operating temperature, humidity		0~40°C, 85% RH or less (non-condensing)					



* The maximum speed may not be reached if the travel distance is short or acceleration is low.

Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information.

🗆 X-axis: SA7R, Y-axis: SA6R, Z-axis: SA4R

Туре	Reference page
PCON-CB/CGB	
PCON-CYB/PLB/POB (coming soon)	Please see the
MCON-C/CG	dedicated catalog or manual.
MCON-LC/LCG (coming soon)	
MSEL-PC/PG	

Options					
Туре	Option code	Reference page	X-axis	Y-axis	Z-axis
Brake	В	See P.77	0	0	Standard equipment *
Cable exit direction (Outside)	clo	See P.77			Standard equipment *
Non-motor end specification	NM	See P.78	0	0	0
Slider roller specification	SR	See P.78	0	0	0
	Type Brake Cable exit direction (Outside) Non-motor end specification	Type Option code Brake B Cable exit direction (Outside) CJO Non-motor end specification NM	Type Option code Reference page Brake B See P.77 Cable exit direction (Outside) CJO See P.77 Non-motor end specification NM See P.78	Type Option code Reference page X-axis Brake B See P.77 O Cable exit direction (Outside) CJO See P.77 Cann sele Non-motor end specification NM See P.78 O	Type Option code Reference page X-axis Y-axis Brake B See P.77 O O Cable exit direction (Outside) CJO See P.77 Cannot be selected Non-motor end specification NM See P.78 O

* Be sure to specify.

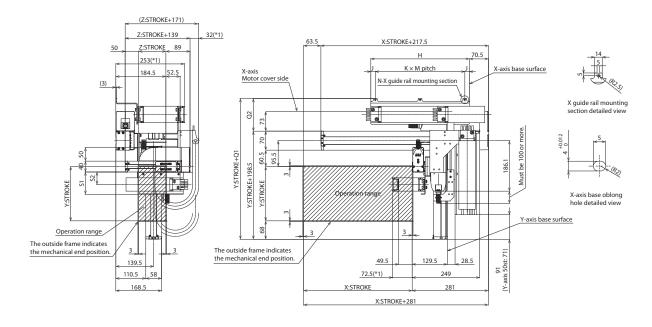
* Operation is possible with the high-output setting specification.

When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

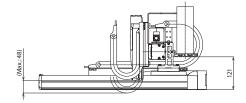




Note 1. The configuration position in the figure is home. Note 2. The diagram shows first, second and third wirings all with cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



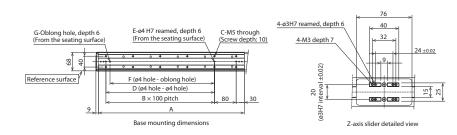
*1: The cable track may swell. becoming slightly larger than the indicated dimensions.



(*) Notes

The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer.

Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.



Dimensions by Stroke

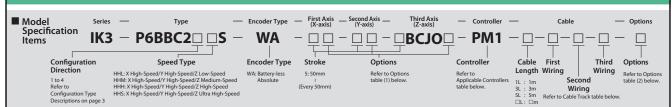
X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	188	238	288	338	388	438	488	538	588	638	688	738	788	838	888	938
В	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	0	0	100	200	200	300	300	400	400	500	500	600	600	700	700	800
E	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	188	213	238	263	288	313	338	363	388	413	438	463	488	513	538	563
J	16.5	16.5	14	16.5	16.5	16.5	14	16.5	14	16	15	66.5	44	56.5	69	16
K	1	1	1	2	2	2	2	2	2	3	3	3	2	2	2	3
Μ	155	180	210	115	127.5	140	155	165	180	127	136	110	200	200	200	177
N	2	2	2	3	3	3	3	3	3	4	4	4	3	3	3	4

Cable track size	CT	CTM	CTL	CTXL		
Q1	306	319	332	349		
Q2	107.5	120.5	133.5	150.5		
S1	82	94	-	-		
S2 46 52.5						
* Dimensions O1, O2, S1 and S2 change						

depending on the size of the cable track.

P6BBC2

RCP6 3-axis combination (XYB + Z-axis, base mount) X-axis: SA7C (Straight) Y-axis: SA6R (Side-mounted) Z-axis: SA4R (Side-mounted)





Payload by	Acceleration
------------	--------------

- HHL type: X high-speed/Y high-speed/Z low-speed
- HHM type: X high-speed/Y high-speed/Z medium-speed
- HHH type: X high-speed/Y high-speed/Z high-speed

HHS type: X high-speed/Y high-speed/Z ultra high-speed

HHS type: X high-speed/Y high-speed/Z ultra high-speed (Unit: kg)							
Speed Type Acceleration/ deceleration (G)	HHL	ННМ	ННН	HHS			
0.1	3	2	1	0.5			
0.3	3	2	1	0.5			
0.5	-	-	1	0.5			

* When X, Y and Z axes all have the same acceleration/deceleration.

When there is significant vibration, decrease the speed and acceleration/deceleration as required.

The photograph above shows the configuration direction "1" where all axes have cable tracks Please refer to P.3 for other configuration directions.

Cable Length

Туре	Cable code	Length
	1L	1m
Standard	3L	3m
type	5L	5m
		Specified length (15m max.)

Note 1. All-axis standard cable is used. Note 2. The length of the second and third axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Cable Track

Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)	Third wiring (Z-axis lateral)
Without cable track (cable only)	N		0	0	0
Cable track S size (inner width: 38mm)	СТ	1	0	0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0	0
Cable track L size (inner width: 63mm)	CTL	See P.79	0	0	Cannot be selected *1
Cable track XL size (inner width: 80mm)	CTXL	1	0	Cannot be	selected *2

*1 Only the first and second wiring can be selected *2 Only the first wiring can be selected

ons					
	X-axis	Y-axis	Z-axis		
	RCP6-SA7C	RCP6-SA6R	RCP6-SA4R		
mm)	50~800mm	50~200mm	50~150mm		
HHL			150mm/s		
HHM	120	E C Omeneo /a	305mm/s		
ннн	420mm/s	Southin/S	525mm/s		
HHS			560mm/s		
	56 Pulse motor	42 Pulse motor	35 Pulse motor		
HHL			2.5mm		
HHM	16mm	12mm	5mm		
HHH	TOTITI	1211111	10mm		
HHS			16mm		
	Ball screw ø12mm rolled C10	Ball screw ø10mm rolled C10	Ball screw ø8mm rolled C10		
atability	±0.01mm				
	Aluminum				
ing midity	0~40°C, 85% RH or less (non-condensing)				
	mm) HHL HHM HHH HHS HHL HHM HHH HHS atability	X-axis RCP6-SA7C mm) 50~800mm HHL 420mm/s HHH 420mm/s HHH 56□ Pulse motor HHH 16mm HHH HHS Ball screw ø12mm rolled C10 stability ±0.01mm Aluminum	X-axis Y-axis RCP6-SA7C RCP6-SA6R mm) 50~800mm 50~200mm HHL 420mm/s 560mm/s HHH 560 Pulse motor 420 Pulse motor HHH 560 Pulse motor 420 Pulse motor HHH 16mm 12mm HHH 16mm Ball screw ø10mm rolled C10 tability ±0.01mm Aluminum ing 0~40°C 85% RH or lass (non-condensing)		

Maximum Stroke X axis 800 mm Yaxis 200 mm Z axis 150 mm Max. Speed (Ultra High-speed type) (X axis 420 mm/s) (Yaxis 560 mm/s) Z axis 560 mm/s

* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Option

code

В

CJT

CJR

CJL

CJB

CJO

NM

SR

Reference

page

See P.77

See P.77

See P.77

See P.77

See P.77

See P.77

See P.78

See P.78

X-axis

0

0

Z-axis

Standard equipment

Cannot be

selected

Y-axis

Cannot be selected Standard

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information.

🗆 X-axis: SA7C, Y-axis: SA6R, Z-axis: SA4R

Туре	Reference page
PCON-CB/CGB	
PCON-CYB/PLB/POB (coming soon)	Please see the
MCON-C/CG	dedicated catalog or manual.
MCON-LC/LCG (coming soon)	acticated eatilog of manual.
MSEL-PC/PG	

* Operation is possible with the high-output setting specification.

When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Slider roller specification					
* Be sure to specify.					
Options (2)					

Options (1)

Brake

Type

Cable exit direction (Top)

Cable exit direction (Left)

Cable exit direction (Right)

Cable exit direction (Bottom)

Cable exit direction (Outside)

Non-motor end specification

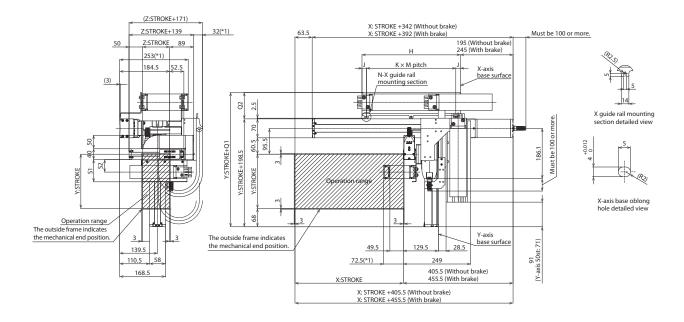
Туре	Option code	Reference page
Foot plate	FTP	See P.77



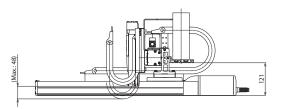


Note 1. The configuration position in the figure is home. Note 2. The diagram shows first, second and third wirings all with cable tracks.

Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



*1: The cable track may swell, becoming slightly larger than the indicated dimensions.

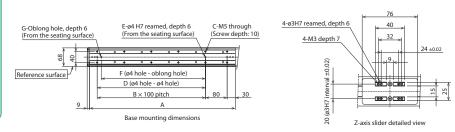


(*) Notes

The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer.

When the foot plate option is selected, the unit will be shipped fixed on the foot plate. (See P.77)

Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.



Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	188	238	288	338	388	438	488	538	588	638	688	738	788	838	888	938
В	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	0	0	100	200	200	300	300	400	400	500	500	600	600	700	700	800
E	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	188	213	238	263	288	313	338	363	388	413	438	463	488	513	538	563
J	16.5	16.5	14	16.5	16.5	16.5	14	16.5	14	16	15	66.5	44	56.5	69	16
К	1	1	1	2	2	2	2	2	2	3	3	3	2	2	2	3
M	155	180	210	115	127.5	140	155	165	180	127	136	110	200	200	200	177
N	2	2	2	3	3	3	3	3	3	4	4	4	3	3	3	4

Cable track size	CT	CTM	CTL	CTXL		
Q1	283	296	309	326		
Q2	84.5	97.5	110.5	127.5		
S1	82	94	-	-		
S2 46 52.5						
* Dimensions Q1, Q2, S1 and S2 change						

depending on the size of the cable track.

IK3-P6BBC3

RCP6 3-axis combination (XYB + Z-axis, base mount) X-axis: SA7C (Straight) Y-axis: SA6C (Straight) Z-axis: SA4C (Straight)

Model Ser Specification Items	les — туре — (3 — Р6ВВС3 — С Я —	Encoder Type	— First Axis (X-axis)	Second Axis Third Axis (Y-axis)	- Controller -	— Cable — <u>—</u> — <u>—</u> —		- Options - 🔲
Configuration Direction 1 to 4 Refer to Configuration Type Descriptions on page	Speed Type HHL: X High-Speed/Y High-Speed/Z Low-Speed HHM: X High-Speed/Y High-Speed/Z Medium-Speed HHH: X High-Speed/Y High-Speed/Z High-Speed HHS: X High-Speed/Y High-Speed/Z Ultra High-Speed	Encoder Type WA: Battery-less Absolute	Stroke 5: 50mm (Every 50mm)	Options Refer to Options table (1) below.	Refer to Applicable Controllers table below.		Third Wiring cond firing Track table below.	Options Refer to Options table (2) below.



Payload by Acceleration

- HHL type: X high-speed/Y high-speed/Z low-speed
- HHM type: X high-speed/Y high-speed/Z medium-speed
- HHH type: X high-speed/Y high-speed/Z high-speed

HHS type: X high-speed/Y high-speed/Z ultra high-speed

Speed Type Acceleration/ deceleration (G)	HHL	ННМ	ННН	HHS
0.1	3	2	1	0.5
0.3	3	2	1	0.5
0.5	-	-	1	0.5

(Unit: ka)

* When X, Y and Z axes all have the same acceleration/deceleration.

When there is significant vibration, decrease the speed and acceleration/deceleration as required.

The photograph above shows the configuration direction "1" where all axes have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length

Specifications

Туре	Cable code	Length				
Standard	1L	1m				
	3L	3m				
type	5L	5m				
		Specified length (15m max.)				
Nets 4 All soft stored and a black sound						

Note 1. All-axis standard cable is used. Note 2. The length of the second and third axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track.

Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Cable Track Price List (Standard price)

Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)	Third wiring (Z-axis lateral)
Without cable track (cable only)	N		0	0	0
Cable track S size (inner width: 38mm)	СТ		0	0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0	0
Cable track L size (inner width: 63mm)	th: 63mm) CTL		0	0	Cannot be selected *1
Cable track XL size (inner width: 80mm)	CTXL		0	Cannot be selected *2	

*1 Only the first and second wiring can be selected *2 Only the first wiring can be selected

Specification	0115					
Item		X-axis	Y-axis	Z-axis		
Axis model		RCP6-SA7C	RCP6-SA6C	RCP6-SA4C		
Stroke (Every 50	mm)	50~800mm	50~200mm	50~150mm		
	HHL			150mm/s		
Max coood *	HHM	420mm/s	560mm/s	305mm/s		
Max. speed *	HHH	4201111/5	5001111/5	525mm/s		
	HHS			560mm/s		
Motor size		56 Pulse motor	42 Pulse motor	35 Pulse motor		
	HHL			2.5mm		
Ball screw	HHM	16mm	12mm	5mm		
lead	HHH	Tomm	12mm	10mm		
	HHS			16mm		
Drive system		Ball screw ø12mm rolled C10	Ball screw ø10mm rolled C10	Ball screw ø8mm rolled C10		
Positioning repeatability		±0.01mm				
Base material		Aluminum				
Ambient operating temperature, humidity		0~40°C, 85% RH or less (non-condensing)				

Maximum Stroke X axis 800 mm Y axis 200 mm Z axis 150 mm Max. Speed (Ultra High-speed type) X axis 420 mm/s Yaxis 560 mm/s Z axis 560 mm/s

* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Options (1) Option Reference Туре X-axis Y-axis Z-axis code page Standard quipment Brake В See P.77 Ο Cable exit direction (Top) CJT See P.77 Cable exit direction (Right) CJR See P.77 Cannot be Cable exit direction (Left) CJL See P.77 selected Cable exit direction (Bottom) CIB See P 77 Non-motor end specification NM See P.78 Slider roller specification SR See P.78

* Outside as standard. Be sure to specify

Options (2)		
Туре	Option code	Reference page
Foot plate	FTP	See P.77

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information.

🗆 X-axis: SA7C, Y-axis: SA6C, Z-axis: SA4C

Туре	Reference page
PCON-CB/CGB	
PCON-CYB/PLB/POB (coming soon)	Please see the
MCON-C/CG	dedicated catalog or manual.
MCON-LC/LCG (coming soon)	
MSEL-PC/PG	

Operation is possible with the high-output setting specification.

When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

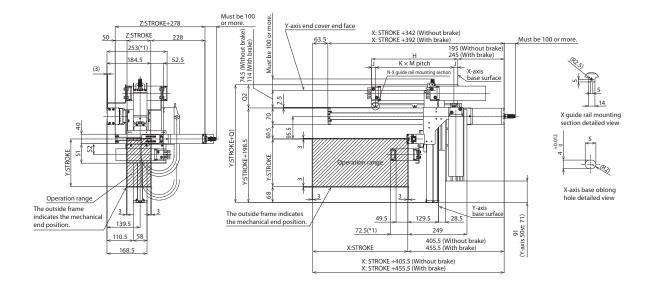




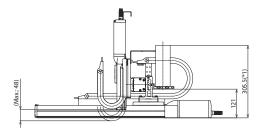
Note 1. The configuration position in the figure is home.

Note 2. The diagram shows first, second and third wirings all with cable tracks.

Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



*1: The cable track may swell, becoming slightly larger than the indicated dimensions.

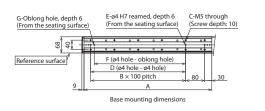


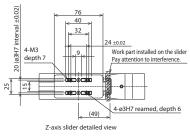
(*) Notes

The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer.

When the foot plate option is selected, the unit will be shipped fixed on the foot plate. (See P.77)

Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.



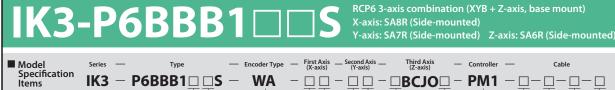


Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	188	238	288	338	388	438	488	538	588	638	688	738	788	838	888	938
В	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	0	0	100	200	200	300	300	400	400	500	500	600	600	700	700	800
E	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	188	213	238	263	288	313	338	363	388	413	438	463	488	513	538	563
J	16.5	16.5	14	16.5	16.5	16.5	14	16.5	14	16	15	66.5	44	56.5	69	16
K	1	1	1	2	2	2	2	2	2	3	3	3	2	2	2	3
М	155	180	210	115	127.5	140	155	165	180	127	136	110	200	200	200	177
N	2	2	2	3	3	3	3	3	3	4	4	4	3	3	3	4

S2	46	52.5	-	-						
S1	82	94	-	-						
Q2	84.5	97.5	110.5	127.5						
Q1	283	296	309	326						
Cable track size	CI	CIM	CIL	CIXL						

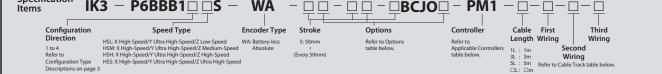
* Dimensions Q1, Q2, S1 and S2 change depending on the size of the cable track.



Cable Track

Туре

Without cable track (cable only)





Payload by Acceleration	
-------------------------	--

- HSL type: X high-speed/Y ultra high-speed/Z low-speed
- HSM type: X high-speed/Y ultra high-speed/Z medium-speed
- HSH type: X high-speed/Y ultra high-speed/Z high-speed

HSS type: X high-speed/Y ultra high-speed/Z ultra high-speed

HSS type: X high	(Unit: kg)			
Speed Type Acceleration/ deceleration (G)	HSL	HSM	HSH	HSS
0.1	4	2	1	0.5
0.3	4	2	1	0.5
0.5	4	2	1	0.5

* When X, Y and Z axes all have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required

Reference

page

See

First wiring

(X-axis lateral)

Second wiring

(Y-axis lateral)

Third wiring

(Z-axis lateral)

annot be selected *1

The photograph above shows the configuration direction "1" where all axes have cable tracks. Please refer to P.3 for other configuration directions

Cable Length										
Туре	Cable code	Length								
	1L	1m								
Standard	3L	3m								
type	5L	5m								
		Specified length (15m max.)								
Nets 1 All	and a standard share by	In the control of								

Cable track S size (inner width: 38mm) Note 1. All-axis standard cable is used. Note 2. The length of the second and third axis cable is from the exit of the cable track. A separate cable is included for wiring Cable track M size (inner width: 50mm) inside the cable track.

Inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

		P.79	-	-	-
Cable track L size (inner width: 63mm)	CTL	P./9	0	0	Cannot be selec
Cable track XL size (inner width: 80mm)	CTXL		0	Cannot be	selected *2
*1 Only the first and second wiring can be	selected	*2 Only the	e first wiring can l	pe selected	

Model

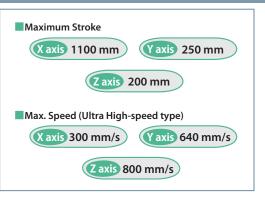
Ν

СТ

стм

Specifications

ltem		X-axis	Y-axis	Z-axis				
Axis model		RCP6-SA8R	RCP6-SA7R	RCP6-SA6R				
Stroke (Every 50	mm)	50~1100mm	50~250mm	50~200mm				
	HSL			170mm/s				
Max. speed *	HSM	300mm/s	640mm/s	340mm/s				
Max. speed	HSH	50011111/5	0401111/5	680mm/s				
	HSS			800mm/s				
Motor size		56□ High-thrust pulse motor	56 Pulse motor	42 Pulse motor				
	HSL			3mm				
Ball screw	HSM	20mm	24mm	6mm 12mm				
lead	HSH	2011111	24000					
	HSS			20mm				
Drive system		Ball screw ø16mm rolled C10	Ball screw ø12mm rolled C10	Ball screw ø10mm rolled C10				
Positioning repea	atability	±0.01mm						
Base material		Aluminum						
Ambient operati temperature, hu		0~40°C, 85% RH or less	(non-condensing)					



* The max, speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Options Option Reference Туре X-axis Y-axis Z-axis code page Standard 0 0 Brake в See P.77 uipmei Cable exit direction (Outside) сJО See P.77 Standard Cannot be selected Non-motor end specification NM See P.78 Slider roller specification SR See P.78

Be sure to specify.

Applicable Controllers
Controllers are sold separately.

Please contact IAI for more information.

□ X-axis: SA8R

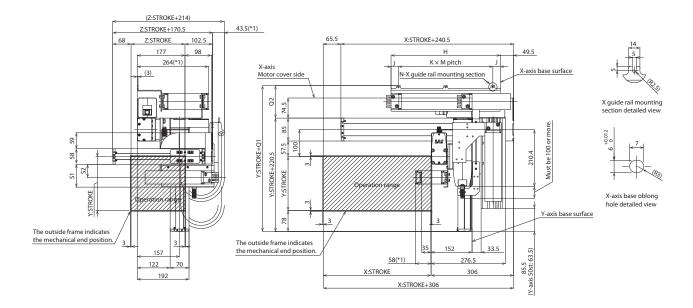
Reference page						
Please see the RCP6 catalog or PCON-CB/CFB manual.						
Reference page						
Please see the						
dedicated catalog or manual.						

* Operation is possible with the high-output setting specification.

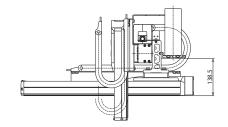
When connecting to the MCON controller, "High-output setting specification" must be selected Please contact IAI regarding use with the high-output setting disabled.



Note 1. The configuration position in the figure is home. Note 2. The diagram shows first, second and third wirings all with cable tracks. Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



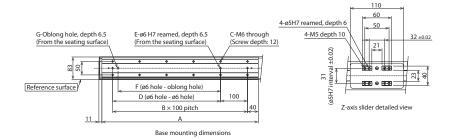
*1: The cable track may swell, becoming slightly larger than the indicated dimensions.



(*) Notes

The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer.

Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.



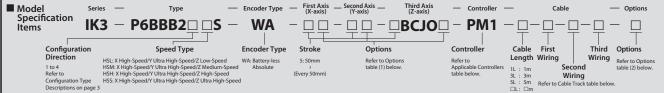
Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
A	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280
В	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
D	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800	800	900	900	1000	1000	1100
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	0	80	180	180	280	280	380	380	480	480	580	580	680	680	780	780	880	880	980	980	1080
G	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	230	255	280	305	330	355	380	405	430	455	480	505	530	555	580	605	630	655	680	705	730	755
J	30	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	22.5	27.5	77.5	52.5	65	77.5	52.5	27.5	77.5	22.5	55	27.5
K	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4
М	170	200	225	125	137.5	150	162.5	175	187.5	200	145	150	125	150	150	150	175	200	175	165	155	175
N	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5

Cable track size	СТ	CTM	CTL	CTXL						
Q1	328	341	354	371						
Q2	107.5	120.5	133.5	150.5						
S1	84.5	96.5	-	-						
S2	48.5	55	-	-						
	* Dimensions Q1, Q2, S1 and S2 change depending on the size									

of the cable track.





*1 Only the first and second wiring can be selected



Pay	load b	у Ассе	leration	

- HSL type: X high-speed/Y ultra high-speed/Z low-speed
- HSM type: X high-speed/Y ultra high-speed/Z medium-speed
- HSH type: X high-speed/Y ultra high-speed/Z high-speed

HSS type: X high-speed/Y ultra high-speed/Z ultra high-speed

				. 5.
Speed Type Acceleration/ deceleration (G)	HSL	HSM	HSH	HSS
0.1	4	2	1	0.5
0.3	4	2	1	0.5
0.5	4	2	1	0.5

(Unit: ka)

* When X, Y and Z axes all have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required

The photograph above shows the configuration direction "1" where all axes have cable tracks. Please refer to P.3 for other configuration directions

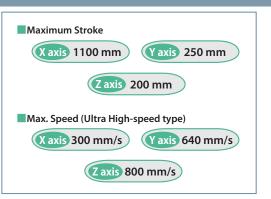
Cable Length								
Туре	Cable code	Length						
	1L	1m						
Standard	3L	3m						
type	5L	5m						
		Specified length (15m max.)						

Cable Track Reference First wiring Second wiring Third wiring Туре Model (X-axis lateral) (Y-axis lateral) (Z-axis lateral) page Without cable track (cable only) Ν Cable track S size (inner width: 38mm) СТ Cable track M size (inner width: 50mm) стм See P.79 Cable track L size (inner width: 63mm) CTL Cannot be selected *1 Cable track XL size (inner width: 80mm) CTXL Cannot be selected *2

Note 1. All-axis standard cable is used. Note 2. The length of the second and third axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track.

Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Specificati	ons						
ltem		X-axis	Y-axis	Z-axis			
Axis model		RCP6-SA8C RCP6-SA7R		RCP6-SA6R			
Stroke (Every 50	mm)	50~1100mm	50~250mm	50~200mm			
HSL				170mm/s			
Max. speed *	HSM	300mm/s	640mm/s	340mm/s			
Max. speed "	HSH	5001111/5	0401111/5	680mm/s			
	HSS			800mm/s			
Motor size		56□ High-thrust pulse motor	56 Pulse motor	42 Pulse motor			
	HSL			3mm			
Ball screw	HSM	20mm	24mm	6mm			
lead	HSH	2011111	2411111	12mm			
	HSS			20mm			
Drive system		Ball screw ø16mm rolled C10	Ball screw ø12mm rolled C10	Ball screw ø10mm rolled C10			
Positioning repeatability		±0.01mm					
Base material		Aluminum					
Ambient operat temperature, hu		0~40°C, 85% RH or les	s (non-condensing)				



*2 Only the first wiring can be selected

^{*} The max, speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Options (1)						
Туре	Option code	Reference page	X-axis	Y-axis	Z-axis	
Brake	В	See P.77	-	-	Standard equipment *	
Cable exit direction (Top)	CJT	See P.77	-			
Cable exit direction (Right)	CJR	See P.77	-	Cann	ot be	
Cable exit direction (Left)	CJL	See P.77	-	sele	cted	
Cable exit direction (Bottom)	CJB	See P.77	-			
Cable exit direction (Outside)	CIO	See P.77	Cannot b	e selected	Standard equipment *	
Non-motor end specification	NM	See P.78	-	-	-	
Slider roller specification	SR	See P.78	-	-	-	
* Be sure to specify.						

Option code	Reference page
FTP	See P.77

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information.

□ X-axis: SA8C

Туре	Reference page							
PCON-CFB/CGFB	Please see the RCP6 catalog or PCON-CB/CFB manual.							
🗆 Y-axis: SA7R, Z-axis: SA6R								
Туре	Reference page							
PCON-CB/CGB								
PCON-CYB/PLB/POB (coming soon)	Please see the							
MCON-C/CG	dedicated catalog or manual.							
MCON-LC/LCG (coming soon)	accilence catalog of manual.							
MSEL-PC/PG								
* Our constitution is a contribution table to be table on structure								

* Operation is possible with the high-output setting specification.

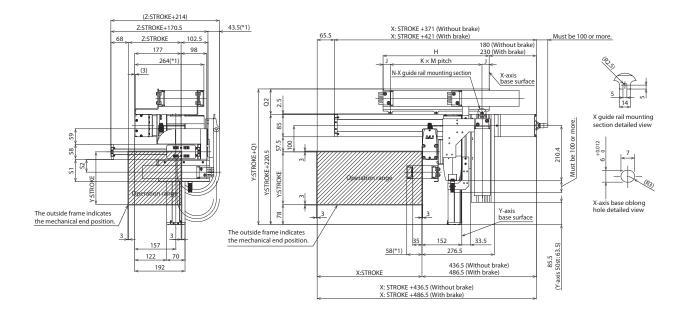
When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Ontions (2)

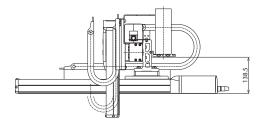


Note 1. The configuration position in the figure is home. Note 2. The diagram shows first, second and third wirings all with cable tracks.

Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



*1: The cable track may swell, becoming slightly larger than the indicated dimensions.

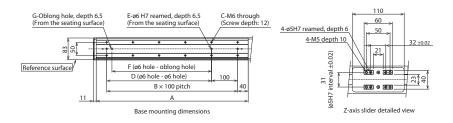


(*) Notes

The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer.

When the foot plate option is selected, the unit will be shipped fixed on the foot plate. (See P.77)

Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.



Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
A	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280
В	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
D	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800	800	900	900	1000	1000	1100
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	0	80	180	180	280	280	380	380	480	480	580	580	680	680	780	780	880	880	980	980	1080
G	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	230	255	280	305	330	355	380	405	430	455	480	505	530	555	580	605	630	655	680	705	730	755
J	30	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	22.5	27.5	77.5	52.5	65	77.5	52.5	27.5	77.5	22.5	55	27.5
K	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4
М	170	200	225	125	137.5	150	162.5	175	187.5	200	145	150	125	150	150	150	175	200	175	165	155	175
N	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5

Cable track size	СТ	СТМ	CTL	CTXL					
Q1	305	318	331	348					
Q2	84.5	97.5	110.5	127.5					
S1	84.5	96.5	-	-					
S2	48.5	55	-	-					
 S2 48.5 55 * Dimensions Q1, Q2, S1 and S2 change depending on the size of the cable track. 									



Cable Track

Туре

Cable track S size (inner width: 38mm)

Cable track M size (inner width: 50mm)

Cable track L size (inner width: 63mm)

Cable track XL size (inner width: 80mm)

*1 Only the first and second wiring can be selected

Without cable track (cable only)

Items	IK	3 — P6BBB3🗆 🗆 S —	WA	- 🗆 🗆 -	- 🗆 🗆 – 🗆 🛛 🗖	_ – PM1 -		$\square - \square -$	· 🗌 🔰
				TT.		ΓΙ	\top \top \top	ГΤ	
Cont	figuration	Speed Type	Encoder Type	Stroke	Options	Controller	Cable First	Third	Options
Dire	ction	HSL: X High-Speed/Y Ultra High-Speed/Z Low-Speed	WA: Battery-less	5: 50mm	Refer to Options	Refer to	Length Wiring	Wiring	Refer to Options
1 to 4		HSM: X High-Speed/Y Ultra High-Speed/Z Medium-Speed	Absolute	1	table (1) below.	Applicable Controllers	1L:1m Sec	ond	table (2) below.
Refer 1	to	HSH: X High-Speed/Y Ultra High-Speed/Z High-Speed		(Every 50mm)		table below.		rina	
Config	guration Type	HSS: X High-Speed/Y Ultra High-Speed/Z Ultra High-Speed	I				5L : 5m Refer to Cable T		
Descri	ptions on page 3							Tack table below.	

RoHS

Pavload by Acceleration

- HSL type: X high-speed/Y ultra high-speed/Z low-speed
- HSM type: X high-speed/Y ultra high-speed/Z medium-speed
- HSH type: X high-speed/Y ultra high-speed/Z high-speed

HSS type: X high-speed/Y ultra high-speed/Z ultra high-speed

Speed Type Acceleration/ deceleration (G)	HSL	HSM	HSH	HSS
0.1	4	2	1	0.5
0.3	4	2	1	0.5
0.5	4	2	1	0.5

Options

(Unit: kg)

Third wiring (Z-axis lateral)

Cannot be selected *1

Second wiring

(Y-axis lateral)

0

Cannot be selected *2

* When X, Y and Z axes all have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required

Reference

page

See P.79

Model

Ν

СТ

стм

CTL

CTXL

The photograph above shows the configuration direction "1" where all axes have cable tracks. Please refer to P.3 for other configuration directions

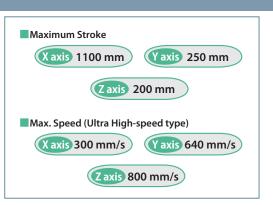
Cable Length Cable code Type enath 1m Standard 3L 3m 51 5m type Specified length (15m max.)

Note 1. All-axis standard cable is used. Note 2. The length of the second and third axis cable is from the exit of the cable track. A separate cable is included for wiring

inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Specifications

ltem		X-axis	Y-axis	Z-axis		
Axis model		RCP6-SA8C RCP6-SA7C		RCP6-SA6C		
Stroke (Every 50	mm)	50~1100mm	50~250mm	50~200mm		
	HSL			170mm/s		
Max speed *	HSM	300mm/s	640mm/s	340mm/s		
Max. speed *	HSH	5001111/5	04011111/5	680mm/s		
	HSS			800mm/s		
Motor size		56□ High-thrust pulse motor	56 Pulse motor	42 Pulse motor		
	HSL			3mm		
Ball screw	HSM	20mm	24mm	6mm		
lead	HSH	2011111	24000	12mm		
	HSS			20mm		
Drive system		Ball screw ø16mm rolled C10	Ball screw ø12mm rolled C10	Ball screw ø10mm rolled C10		
Positioning repea	atability	±0.01mm				
Base material		Aluminum				
Ambient operating temperature, humidity		0~40°C, 85% RH or less (non-condensing)				



First wiring (X-axis lateral)

0

0

0

*2 Only the first wiring can be selected

* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Options (1)								
Туре	Option code	Reference page	X-axis	Y-axis	Z-axis			
Brake	В	See P.77	0	0	Standard equipment *			
Cable exit direction (Top)	CJT	See P.77	0					
Cable exit direction (Right)	CJR	See P.77	0	Cann	ot be			
Cable exit direction (Left)	CJL	See P.77	0	selected				
Cable exit direction (Bottom)	CJB	See P.77	0					
Non-motor end specification	NM	See P.78	0	0	0			
Slider roller specification	SR	See P.78	0	0	0			

* Outside as standard. Be sure to specify.

Options (2)

Туре	Option code	Reference page
Foot plate	FTP	See P.77

Applicable controllers	
Controllers are sold separately.	
Please contact IAI for more information.	
lease contact iAi for more information.	

□ X-axis: SA8C

Applicable Controller

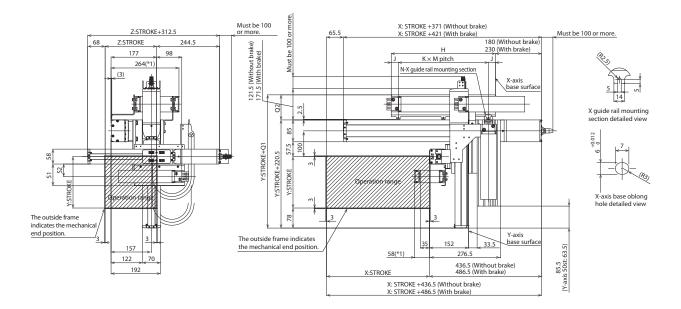
Туре	Reference page
PCON-CFB/CGFB	Please see the RCP6 catalog or PCON-CB/CFB manual.
🗆 Y-axis: SA7C, Z-axis: SA6C	
Туре	Reference page
PCON-CB/CGB	
PCON-CYB/PLB/POB (coming soon)	Please see the
MCON-C/CG	dedicated catalog or manual.
MCON-LC/LCG (coming soon)	dedicated catalog of manual.
MSEL-PC/PG	
* Operation is possible with the high-output se	etting specification.

When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

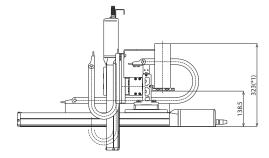


Note 1. The configuration position in the figure is home. Note 2. The diagram shows first, second and third wirings all with cable tracks.

Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



*1: The cable track may swell, becoming slightly larger than the indicated dimensions.

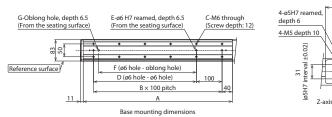


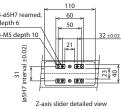
(*) Notes

The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer.

When the foot plate option is selected, the unit will be shipped fixed on the foot plate. (See P.77)

Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.





Dimensions by Stroke

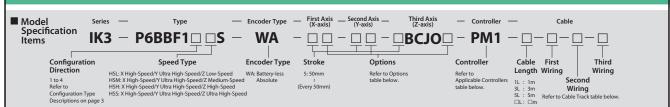
X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
A	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280
В	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
D	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800	800	900	900	1000	1000	1100
E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	0	0	80	180	180	280	280	380	380	480	480	580	580	680	680	780	780	880	880	980	980	1080
G	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Н	230	255	280	305	330	355	380	405	430	455	480	505	530	555	580	605	630	655	680	705	730	755
J	30	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	22.5	27.5	77.5	52.5	65	77.5	52.5	27.5	77.5	22.5	55	27.5
K	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4
М	170	200	225	125	137.5	150	162.5	175	187.5	200	145	150	125	150	150	150	175	200	175	165	155	175
N	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5

31 348
0.5 127.5

* Dimensions Q1, Q2, S1 and S2 change depending on the size of the cable track.

3-P6BBF 1

RCP6 3-axis combination (XYB + Z-axis, base mount) X-axis: WSA14R (Side-mounted) Y-axis: SA7R (Side-mounted) Z-axis: SA6R (Side-mounted)





Payload by Acceleration

- HSL type: X high-speed/Y ultra high-speed/Z low-speed
- HSM type: X high-speed/Y ultra high-speed/Z medium-speed
- HSH type: X high-speed/Y ultra high-speed/Z high-speed

HSS type: X high-speed/Y ultra high-speed/Z ultra high-speed

				. 5.
Speed Type Acceleration/ deceleration (G)	HSL	HSM	HSH	HSS
0.1	4	2	1	0.5
0.3	-	2	1	0.5
0.5	-	2	1	0.5

(Unit: kg)

When X, Y and Z axes all have the same acceleration/deceleration.

When there is significant vibration, decrease the speed and acceleration/deceleration as required.

The photograph above shows the configuration direction "1" where all axes have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length

Туре	Cable code	Length
Standard type	1L	1m
	3L	3m
	5L	5m
		Specified length (15m max.)

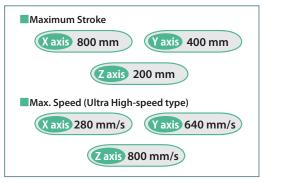
Cable Track

Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)	Third wiring (Z-axis lateral)	
Without cable track (cable only)	N		0	0	0	
Cable track S size (inner width: 38mm)	СТ		0	0	0	
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0	0	
Cable track L size (inner width: 63mm)	CTL		0	0	Cannot be selected *1	
Cable track XL size (inner width: 80mm)	CTXL		0	Cannot be	selected *2	
*1 Only the first and second wiring can be	selected	*2 Only the	ne first wiring can be selected			

Note 1. All-axis standard cable is used. Note 2. The length of the second and third axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track. inside the cable track. A separate cable is included for wining inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Specifications

ltem		X-axis	Y-axis	Z-axis		
Axis model		RCP6-WSA14R	RCP6-SA7R	RCP6-SA6R		
Stroke (Every 50	mm)	50~800mm	50~400mm	50~200mm		
	HSL			170mm/s		
May an and *	HSM	280mm/s	640mm/s	340mm/s		
Max. speed *	HSH	280mm/s	040mm/s	680mm/s		
	HSS			800mm/s		
Motor size		56 Pulse motor	56 Pulse motor	42□ Pulse motor		
	HSL			3mm		
Ball screw	HSM	16mm	24mm	6mm		
lead	HSH	Tomm	24mm	12mm		
	HSS			20mm		
Drive system		Ball screw ø12mm rolled C10	Ball screw ø12mm rolled C10	Ball screw ø10mm rolled C10		
Positioning repe	atability	±0.01mm				
Base material		Aluminum				
Ambient operating temperature, humidity		0~40°C, 85% RH or less (non-condensing)				



* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Options Reference Option Туре X-axis Y-axis Z-axis code page Standard quipment Brake В See P.77 Ο Cannot be Standard equipment Cable exit direction (Outside) CJO See P.77 selected Non-motor end specification NM See P.78 Slider roller specification SR See P.78

* Be sure to specify.

	туре	
DCONLCD/CCD		

Please contact IAI for more information.

□ X-axis: WSA14R, Y-axis: SA7R, Z-axis: SA6R

Applicable Controllers

Controllers are sold separately.

Туре	Reference page
PCON-CB/CGB	
PCON-CYB/PLB/POB (coming soon)	Please see the
MCON-C/CG	dedicated catalog or manual.
MCON-LC/LCG (coming soon)	acalcalca catalog of manaan
MSEL-PC/PG	

* Operation is possible with the high-output setting specification.

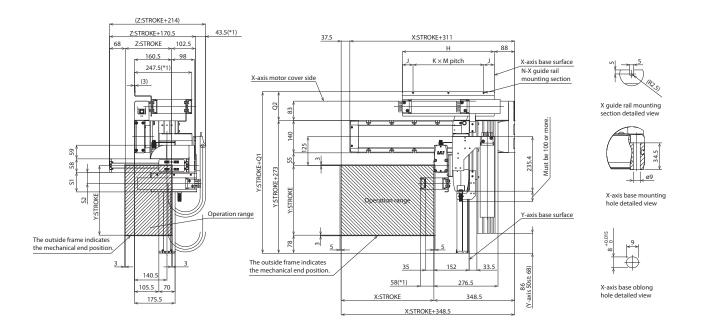
When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Dimensions

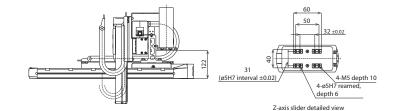


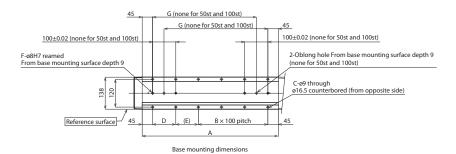
Note 1. The configuration position in the figure is home. Note 2. The diagram shows first, second and third wirings all with cable tracks.

Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



*1: The cable track may swell, becoming slightly larger than the indicated dimensions.





(*) Notes

The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer. Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.

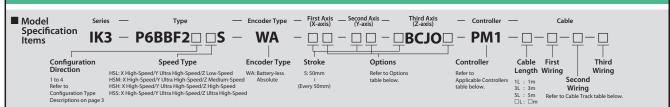
Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	237	287	337	387	437	487	537	587	637	687	737	787	837	887	937	987
В	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
С	4	4	8	8	10	10	12	12	14	14	16	16	18	18	20	20
D	-	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100
E	147	197	47	97	47	97	47	97	47	97	47	97	47	97	47	97
F	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
G	-	-	198	248	298	348	398	448	498	548	598	648	698	748	798	848
Н	221	246	271	296	321	346	371	396	421	446	471	496	521	546	571	596
J	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	43	48	45.5	43	43	45.5	43
К	1	1	2	2	2	2	2	2	3	3	3	3	3	4	4	4
М	130	155	90	102.5	115	127.5	140	152.5	110	120	125	135	145	115	120	127.5
N	2	2	3	3	3	3	3	3	4	4	4	4	4	5	5	5
Cable track size	CT	CTM	CTL	CTXL												
Q1	383.5	396.5	409.5	426.5												
Q2	110.5	123.5	136.5	153.5												
S1	84.5	96.5	-	-												
S2	48.5	55	-	-												

* Dimensions Q1, Q2, S1 and S2 change depending on the size of the cable track.

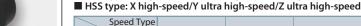
6BBF2 Ρ

RCP6 3-axis combination (XYB + Z-axis, base mount) X-axis: WSA14C (Straight) Y-axis: SA7R (Side-mounted) Z-axis: SA6R (Side-mounted)





- HSL type: X high-speed/Y ultra high-speed/Z low-speed
- HSM type: X high-speed/Y ultra high-speed/Z medium-speed
- HSH type: X high-speed/Y ultra high-speed/Z high-speed



Acceleration/ deceleration (G)	HSL	HSM	HSH	HSS
0.1	4	2	1	0.5
0.3	-	2	1	0.5
0.5	-	2	1	0.5

(Unit: kg)

Third wiring

(Z-axis lateral)

Second wiring

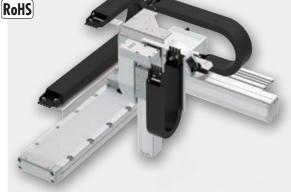
(Y-axis lateral)

When X, Y and Z axes all have the same acceleration/deceleration.

When there is significant vibration, decrease the speed and acceleration/deceleration as required.

First wiring

(X-axis lateral)



The photograph above shows the configuration direction "1" where all axes have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length

j								
Туре	Cable code	Length						
1L	1L	1m						
Standard	3L	3m						
type	5L	5m						
		Specified length (15m max.)						

Note 1. All-axis standard cable is used. Note 2. The length of the second and third axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Without cable track (cable only) Cable track S size (inner width: 38mm)

Туре

Cable Track

Ν ст Cable track M size (inner width: 50mm) стм See P.79 Cable track L size (inner width: 63mm) CTL Cannot be selected * Cable track XL size (inner width: 80mm) CTXL Cannot be selected *2 *1 Only the first and second wiring can be selected *2 Only the first wiring can be selected

Model

Reference

page

Specifications

ltem		X-axis	Y-axis	Z-axis				
Axis model		RCP6-WSA14C	RCP6-SA7R	RCP6-SA6R				
Stroke (Every 50	mm)	50~800mm	50~400mm	50~200mm				
	HSL			170mm/s				
Max. speed *	HSM	280mm/s	640mm/s	340mm/s				
Max. speed	HSH	20011111/5	0401111/5	680mm/s				
	HSS			800mm/s				
Motor size		56 Pulse motor	56 Pulse motor	42□ Pulse motor				
	HSL			3mm				
Ball screw	HSM	16mm	24mm	6mm				
lead	HSH	TOTITI	24000	12mm				
	HSS			20mm				
Drive system		Ball screw ø12mm rolled C10	Ball screw ø12mm rolled C10	Ball screw ø10mm rolled C10				
Positioning repea	atability	±0.01mm	^	^				
Base material		Aluminum						
Ambient operat temperature, hu		0~40°C, 85% RH or less	(non-condensing)					

Applicable Controllers

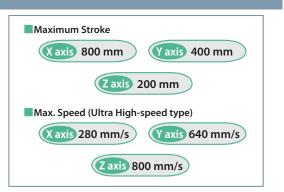
Controllers are sold separately. Please contact IAI for more information.

□ X-axis: WSA14C, Y-axis: SA7R, Z-axis: SA6R

Туре	Reference page
PCON-CB/CGB	
PCON-CYB/PLB/POB (coming soon)	Please see the
MCON-C/CG	dedicated catalog or manual.
MCON-LC/LCG (coming soon)	acticated catalog of manual.
MSEL-PC/PG	

* Operation is possible with the high-output setting specification.

When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.



The max, speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke.

For details, refer to the Maximum Speed by Stroke table on P.80.

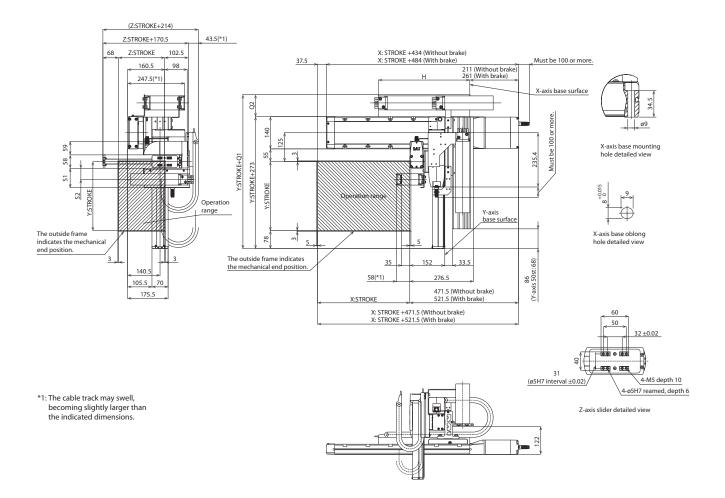
Option	otion Reference		Standard Price			
code	page	X-axis	Y-axis	Z-axis		
В	See P.77	0	0	Standard equipment *		
CJT	See P.77	0				
CJR	See P.77	0	Cannot be			
CJL	See P.77	0	sele	cted		
CJB	See P.77	0				
CIO	See P.77			Standard equipment *		
NM	See P.78	0	0	0		
SR	See P.78	0	0	0		
	Code B CJT CJR CJL CJB CJO NM	code page B See P.77 CJT See P.77 CJL See P.77 CJL See P.77 CJB See P.77 See P.77 See P.77 CJB See P.77 See P.77 See P.77	Code page X-axis B See P.77 O CJT See P.77 O CJR See P.77 O CJB See P.77 O See P.77 O See P.77 CJB See P.77 O See P.78 O See P.78	Code page X-axis Y-axis B See P.77 O O CJT See P.77 O Canr CJL See P.77 O Canr CJB See P.77 O Canr NM See P.78 O O		

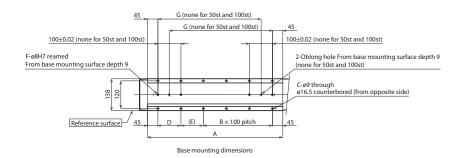
* Be sure to specify.



Note 1. The configuration position in the figure is home. Note 2. The diagram shows first, second and third wirings all with cable tracks.

Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.





(*) Notes

The moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.

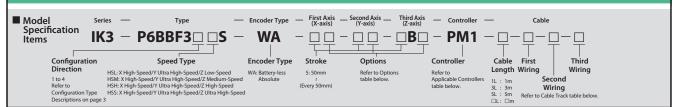
Dimensions by Stroke

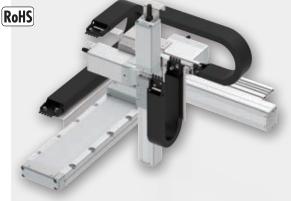
X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	237	287	337	387	437	487	537	587	637	687	737	787	837	887	937	987
В	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
C	4	4	8	8	10	10	12	12	14	14	16	16	18	18	20	20
D	-	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100
E	147	197	47	97	47	97	47	97	47	97	47	97	47	97	47	97
F	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
G	-	-	198	248	298	348	398	448	498	548	598	648	698	748	798	848
Н	221	246	271	296	321	346	371	396	421	446	471	496	521	546	571	596
Cable track size	CT	CTM	CTL	CTXL												
Q1	356	368	383	401												
Q2	83	95	110	128												
S1	84.5	96.5	-	-												
S2	48.5	55	-	-												

* Dimensions Q1, Q2, S1 and S2 change depending on the size of the cable track.

3-P6BBF3

RCP6 3-axis combination (XYB + Z-axis, base mount) X-axis: WSA14C (Straight) Y-axis: SA7C (Straight) Z-axis: SA6C (Straight)





Payload by Acceleration

- HSL type: X high-speed/Y ultra high-speed/Z low-speed
- HSM type: X high-speed/Y ultra high-speed/Z medium-speed
- HSH type: X high-speed/Y ultra high-speed/Z high-speed

HSS type: X high-speed/Y ultra high-speed/Z ultra high-speed

Speed Type Acceleration/ deceleration (G)	HSL	HSM	HSH	HSS
0.1	4	2	1	0.5
0.3	-	2	1	0.5
0.5	-	2	1	0.5

(Unit: kg)

* When X, Y and Z axes all have the same acceleration/deceleration.

When there is significant vibration, decrease the speed and acceleration/deceleration as required.

The photograph above shows the configuration direction "1" where all axes have cable tracks Please refer to P.3 for other configuration directions.

Cable Length

Motor size

Ball screw

Drive system

Base material

Positioning repeatability

Ambient operating

temperature, humidity

lead

Туре	Cable code	Length
	1L	1m
Standard	3L	3m
type	5L	5m
		Specified length (15m max.)

Cable Track

20mm

rolled C10

Ball screw ø10mm

Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)	Third wiring (Z-axis lateral)
Without cable track (cable only)	N		0	0	0
Cable track S size (inner width: 38mm)	СТ		0	0	0
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0	0
Cable track L size (inner width: 63mm)	CTL		0	0	Cannot be selected *1
Cable track XL size (inner width: 80mm)	CTXL		0	Cannot be	selected *2
*1 Only the first and second wiring can be	selected	*2 Only the	e first wiring can b	be selected	

Note 1. All-axis standard cable is used. Note 2. The length of the second and third axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Specifications			
ltem	X-axis	Y-axis	
Axis model	RCP6-WSA14C	RCP6-SA7C	RCP6-S
Stroke (Every 50mm)	50~800mm	50~400mm	50~200

Ball screw ø12mm

rolled C10

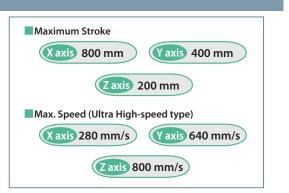
+0.01mm

Aluminum

Z-axis SA6C 0mm HSL 170mm/s HSM 340mm/s Max. speed * 280mm/s 640mm/s HSH 680mm/s HSS 800mm/s 56 Pulse motor 56 Pulse motor 42 Pulse motor HSL 3mm HSM 6mm 16mm 24mm HSH 12mm

Ball screw ø12mm

rolled C10



* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke. For details, refer to the Maximum Speed by Stroke table on P.80.

Applicable Controllers

HSS

Controllers are sold separately. Please contact IAI for more information.

🗆 X-axis: WSA14C, Y-axis: SA7C, Z-axis: SA6C

Туре	Reference page
PCON-CB/CGB	
PCON-CYB/PLB/POB (coming soon)	Please see the
MCON-C/CG	dedicated catalog or manual.
MCON-LC/LCG (coming soon)	
MSEL-PC/PG	

0~40°C, 85% RH or less (non-condensing)

* Operation is possible with the high-output setting specification.

When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

Option code	Reference page	X-axis	Y-axis Z-axis			
В	See P.77	0	0	Standard equipment		
CJT	See P.77	0				
CJR	See P.77	0	Cannot be selected			
CJL	See P.77	0				
CJB	See P.77	0				
NM	See P.78	0	0	0		
SR	See P.78	0	0	0		
	CJT CJR CJL CJB NM	code page B See P.77 CJT See P.77 CJR See P.77 CJL See P.77 CJB See P.77 NM See P.78	code page X-axis B See P.77 O CJT See P.77 O CJR See P.77 O CJB See P.77 O NM See P.78 O	code page X-axis Y-axis B See P.77 O O CJT See P.77 O O CJR See P.77 O Cann CJB See P.77 O See NM See P.78 O O		

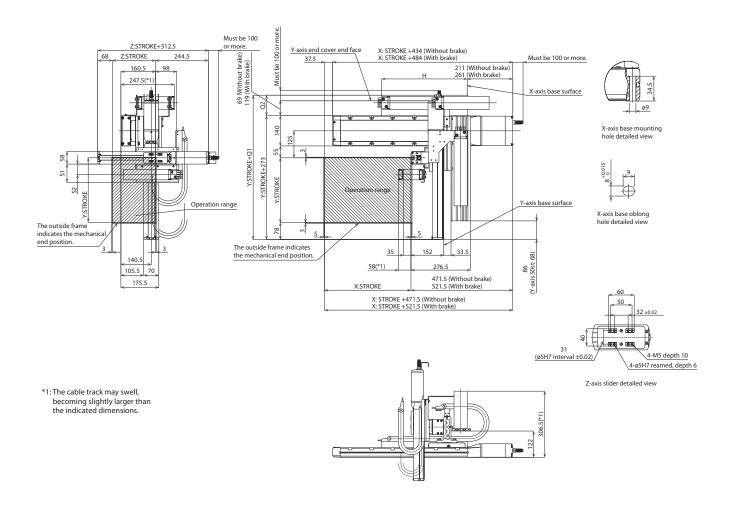
* Outside as standard. Be sure to specify.

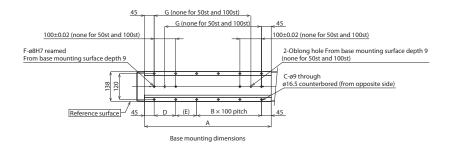
Dimensions



Note 1. The configuration position in the figure is home. Note 2. The diagram shows first, second and third wirings all with cable tracks.

Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.





(*) Notes

The moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.

Dimensions by Stroke

S2

48.5 55 - -

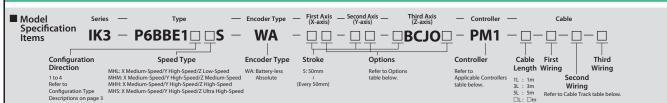
* Dimensions Q1, Q2, S1 and S2 change depending on the size of the cable track.

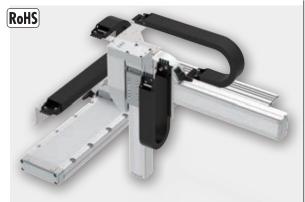
X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
A	237	287	337	387	437	487	537	587	637	687	737	787	837	887	937	987
В	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
C	4	4	8	8	10	10	12	12	14	14	16	16	18	18	20	20
D	-	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100
E	147	197	47	97	47	97	47	97	47	97	47	97	47	97	47	97
F	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
G	-	-	198	248	298	348	398	448	498	548	598	648	698	748	798	848
Н	221	246	271	296	321	346	371	396	421	446	471	496	521	546	571	596
Cable track size	CT	CTM	CTL	CTXL												
Q1	356	368	383	401												
Q2	83	95	110	128												
S1	84.5	96.5	-	-												

IK3-P6BBF3 5 70

6**B** B Ρ

RCP6 3-axis combination (XYB + Z-axis, base mount) X-axis: WSA16R (Side-mounted) Y-axis: SA8R (Side-mounted) Z-axis: SA7R (Side-mounted)





Payload by Acceleration

MHL type: X medium-speed/Y high-speed/Z low-speed

- MHM type: X medium-speed/Y high-speed/Z medium-speed
- MHH type: X medium-speed/Y high-speed/Z high-speed
- MHS type: X medium-speed/Y high-speed/Z ultra high-speed

Y-axis stroke (mm)	50	~400 (Ev	ery 50m	ım)	450~500 (Every 50mm)					
Speed Type Acceleration/ deceleration (G)	MHL	МНМ	MHH	MHS	MHL	МНМ	МНН	MHS		
0.1	6	4	2	1	6	4	2	1		
0.3	-	4	2	1	-	-	2	1		

(Unit: kg)

Standard

uipmen

Cannot be selected

When X, Y and Z axes all have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

The photograph above shows the configuration direction "1" where all axes have cable tracks. Please refer to P.3 for other configuration directions.

Cable Length										
Туре	Cable code	Length								
	1L	1m								
Standard	3L	3m								
type	5L	5m								
		Specified length (15m max.)								
Note 2. Th of ins Note 3. Th	the cable track. A s ide the cable track e standard lengths	cond and third axis cable is from the exit separate cable is included for wiring								

Cable Track

Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)	Third wiring (Z-axis lateral)	
Without cable track (cable only)	N		0	0	0	
Cable track S size (inner width: 38mm)	СТ		0	0	0	
Cable track M size (inner width: 50mm)	СТМ	See P.79	0	0	0	
Cable track L size (inner width: 63mm)	CTL		0	0	Cannot be selected *1	
Cable track XL size (inner width: 80mm)	CTXL		0	Cannot be selected *2		

*1 Only the first and second wiring can be selected *2 Only the first wiring can be selected

Specifications X-axis Z-axis Item Y-axis Axis model RCP6-WSA16R RCP6-SA8R RCP6-SA7R 50~1100mm 50~300mm Stroke (Every 50mm) 50~500mm MHL 105mm/s MHM 210mm/s Max. speed * 210mm/s 400mm/s мнн 420mm/s MHS 640mm/s 56 Hiah-thrust 56 High-thrust Motor size 56 Pulse motor pulse motor pulse motor MHL 4mm Ball screw мнм 8mm 10mm 20mm lead МНН 16mm MHS 24mm Ball screw ø16mm Ball screw ø16mm Ball screw ø12mm Drive system rolled C10 rolled C10 rolled C10 Positioning repeatability ±0.01mm Base material Aluminum Ambient operating 0~40°C, 85% RH or less (non-condensing) temperature, humidity

Maximum Stroke X axis 1100 mm Yaxis 500 mm Zaxis 300 mm Max. Speed (Ultra High-speed type) (X axis 210 mm/s) (Yaxis 400 mm/s) Z axis 640 mm/s

Maximum speed may change depending on the stroke.

CJO

NM

SR

See P.77

See P.78

See P.78

Applicable Controllers

Controllers are sold separately.

Please contact IAI for more information.

□ X-axis: WSA16R, Y-axis: SA8R

Type	nelelence page						
PCON-CFB/CGFB	Please see the RCP6 catalog or PCON-CB/CFB manual.						
🗆 Z-axis: SA7R							
Туре	Reference page						
PCON-CB/CGB							
PCON-CYB/PLB/POB (coming soon)	Please see the						
MCON-C/CG	dedicated catalog or manual.						
MCON-LC/LCG (coming soon)							
MSEL-PC/PG							

* Operation is possible with the high-output setting specification. When connecting to the MCON controller, "High-output setting specification" must be selected. Please contact IAI regarding use with the high-output setting disabled.

* The max. speed may not be reached if the travel distance is short or acceleration is low. For details, refer to the Maximum Speed by Stroke table on P.80. Options Reference Option Type X-axis Y-axis Z-axis code page Standard quipment Brake 0 В See P.77

Slider roller specification * Be sure to specify.

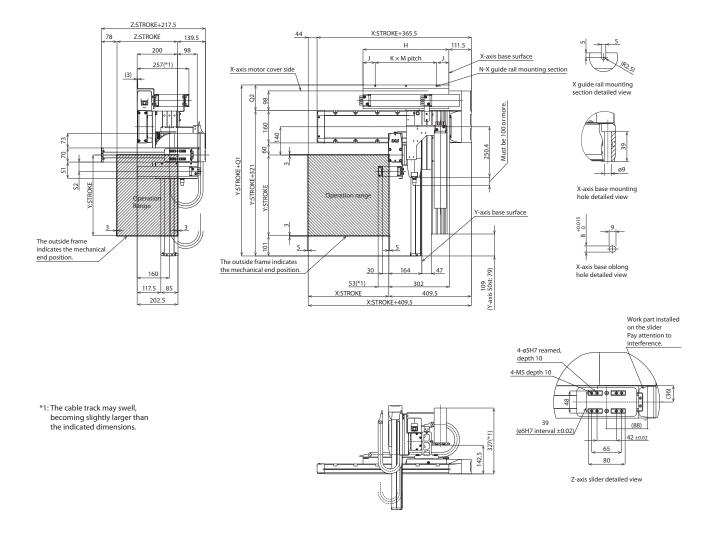
Cable exit direction (Outside)

Non-motor end specification



Note 1. The configuration position in the figure is home. Note 2. The diagram shows first, second and third wirings all with cable tracks.

Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.



(*)	Ν	otes
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The X-axis cable track guide rail is to be fixed to the surface on which the X-axis is installed by the customer.

by the customer. Also, the moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.

55	G (none for 50 and 100st)	
100±0.02 (none for 50 and 100s	G (none for 50 and 100st)	
F-ø8H7 reamed From base mounting surface depth 9a	2-Oblog hole From base mounting surface depth (none for 50st and 100st)	9
- 140		
Reference surface	55 D (E) B × 100 pitch 55 C-ø9 through A 016.5 counterbored (from opposite side)	
	Base mounting dimensions	

Dimensions by Stroke

| X: Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400

 | 450 | 500 | 550 | 600
 | 650 | 700
 | 750 | 800 | 850
 | 900 | 950 | 1000 | 1050 | 1100 | Ca |
|-----------|--|--|---|---|--|---|---
--
---|--|---

--
--|--|---
---|--|--|---|---|---
---|--|--|
| A | 268 | 318 | 368 | 418 | 468 | 518 | 568 | 618

 | 668 | 718 | 768 | 818
 | 868 | 918
 | 968 | 1018 | 1068
 | 1118 | 1168 | 1218 | 1268 | 1318 | track |
| В | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3

 | 4 | 4 | 5 | 5
 | 6 | 6
 | 7 | 7 | 8
 | 8 | 9 | 9 | 10 | 10 | Q |
| С | 4 | 4 | 8 | 8 | 10 | 10 | 12 | 12

 | 14 | 14 | 16 | 16
 | 18 | 18
 | 20 | 20 | 22
 | 22 | 24 | 24 | 26 | 26 | Q |
| D | - | - | 100 | 100 | 100 | 100 | 100 | 100

 | 100 | 100 | 100 | 100
 | 100 | 100
 | 100 | 100 | 100
 | 100 | 100 | 100 | 100 | 100 | S |
| E | 158 | 208 | 58 | 108 | 58 | 108 | 58 | 108

 | 58 | 108 | 58 | 108
 | 58 | 108
 | 58 | 108 | 58
 | 108 | 58 | 108 | 58 | 108 | S |
| F | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4

 | 4 | 4 | 4 | 4
 | 4 | 4
 | 4 | 4 | 4
 | 4 | 4 | 4 | 4 | 4 | * Dii |
| G | - | - | 208 | 258 | 308 | 358 | 408 | 458

 | 508 | 558 | 608 | 658
 | 708 | 758
 | 808 | 858 | 908
 | 958 | 1008 | 1058 | 1108 | 1158 | ch |
| Н | 251 | 276 | 301 | 326 | 351 | 376 | 401 | 426

 | 451 | 476 | 501 | 526
 | 551 | 576
 | 601 | 626 | 651
 | 676 | 701 | 726 | 751 | 776 | of |
| J | 60.5 | 60.5 | 60.5 | 60.5 | 60.5 | 60.5 | 60.5 | 60.5

 | 60.5 | 58 | 63 | 60.5
 | 58 | 58
 | 60.5 | 58 | 60.5
 | 58 | 60.5 | 63 | 63 | 63 | 01 |
| K | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2

 | 3 | 3 | 3 | 3
 | 3 | 4
 | 4 | 4 | 4
 | 4 | 4 | 5 | 5 | 5 | |
| М | 130 | 155 | 90 | 102.5 | 115 | 127.5 | 140 | 152.5

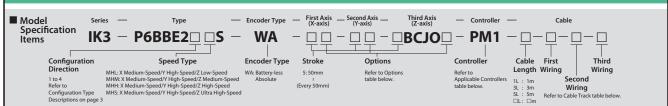
 | 110 | 120 | 125 | 135
 | 145 | 115
 | 120 | 127.5 | 132.5
 | 140 | 145 | 120 | 125 | 130 | |
| N | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3

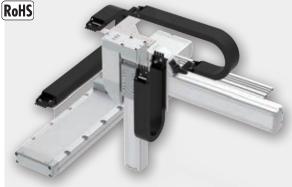
 | 4 | 4 | 4 | 4
 | 4 | 5
 | 5 | 5 | 5
 | 5 | 5 | 6 | 6 | 6 | |
| | A
B
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K | A 268 B 0 C 4 D - E 158 F 2 G - H 251 J 60.5 K 1 | A 268 318 B 0 0 C 4 4 D - - E 158 208 F 2 2 G - - H 251 276 J 60.5 60.5 K 1 1 | A 268 318 368 B 0 0 1 C 4 4 8 D - - 100 E 158 208 58 F 2 2 4 G - - 208 H 251 276 301 J 60.5 60.5 60.5 K 1 1 2 | A 268 318 368 418 B 0 0 1 1 C 4 4 8 8 D - - 100 100 E 158 208 58 108 F 2 2 4 4 G - - 208 258 H 251 276 301 326 J 60.5 60.5 60.5 60.5 K 1 1 2 2 | A 268 318 368 418 468 B 0 0 1 1 2 C 4 4 8 8 10 D - - 100 100 100 E 158 208 58 108 58 F 2 2 4 4 4 G - - 208 258 308 H 251 276 301 326 351 J 60.5 60.5 60.5 60.5 60.5 K 1 1 2 2 2 2 | A 268 318 368 418 468 518 B 0 0 1 1 2 2 C 4 4 8 8 10 10 D - - 100 100 100 100 D - - 100 100 100 100 E 158 208 58 108 58 108 F 2 2 4 4 4 4 G - - 208 258 308 358 H 251 276 301 326 351 376 J 60.5 60.5 60.5 60.5 60.5 60.5 K 1 1 2 2 2 2 | A 268 318 368 418 468 518 568 B 0 0 1 1 2 2 3 C 4 4 8 8 10 10 120 D - - 100 100 100 100 100 E 158 208 58 108 58 108 58 F 2 2 4 4 4 4 G - - 208 258 308 358 408 H 251 276 301 326 351 376 401 J 60.5 <t< td=""><td>A 268 318 368 418 468 518 568 618 B 0 0 1 1 2 2 3 3 C 4 4 8 8 10 10 12 12 D - - 100 100 100 100 100 100 E 158 208 58 108 58 108 58 108 F 2 2 4 4 4 4 4 4 4 G - - 208 258 308 358 408 458 H 251 276 301 326 351 376 401 426 J 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5</td><td>A 268 318 368 418 468 518 568 618 668 B 0 0 1 1 2 2 3 3 4 C 4 4 8 8 10 10 12 14 D - - 100</td><td>A 268 318 368 418 468 518 568 618 668 718 B 0 0 1 1 2 2 3 3 4 4 C 4 4 8 8 10 10 12 12 14 14 D - - 100</td><td>A 268 318 368 418 468 518 568 618 668 718 768 B 0 0 1 1 2 2 3 3 4 4 5 C 4 4 8 8 10 10 12 12 14 16 D - - 100 <t< td=""><td>A 268 318 368 418 468 518 568 618 668 718 768 818 B 0 0 1 1 2 2 3 3 4 4 5 5 C 4 4 8 8 10 10 12 14 14 16 16 D - - 100 1</td><td>A 268 318 368 418 468 518 568 618 668 718 768 818 868 B 0 0 1 1 2 2 3
 3 4 4 5 5 6 C 4 4 8 8 10 10 12 12 14 14 16 16 18 D - - 100<!--</td--><td>A 268 318 368 418 468 518 568 618 668 718 768 818 868 918 B 0 0 1 1 2 2 3 3 4 4 5 5 6 6 C 4 4 8 8 10 10 12 12 14 16 16 18 18 D - - 100<td>A 268 318 368 418 468 518 568 618 668 718 768 818 868 918 968 B 0 0 1 1 2 2 3 4 4 5 5 6 6 7 C 4 4 8 8 10 10 12 12 14 14 16 16 18 18 20 D - - 100</td><td>A 268 318 368 418 468 518 568 618 668 718 768 818 868 918 968 1018 B 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 C 4 4 8 8 10 10 12 12 14 14 16 16 18 82 20 20 D - - 100</td><td>A 268 318 368 418 468 518 568 618 668 718 768 818 868 918 968 1018 1068 B 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 C 4 4 8 8 10 10 12 12 14 16 16 18 82 02 22 20 22 20 22 20 22 20 22 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 23 25 58 108 58 108 58 108 58 108 58 108</td></td></td></t<><td>A 268 318 368 418 468 518 568 618 668 718 768 818 868 918 968 1018 1068 1118 B 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 C 4 4 8 8 10 10 12 14 14 16 16 18 18 20 20 22 22 D - - 100</td><td>A 268 318 368 418 468 518 568 618 668 718 768 818 868 918 968 1018 1068 1118 1168 B 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 C 4 4 8 8 10 10 12 14 14 16 16 18 18 20 20 22 22 24 D - - 100 <</td><td>A 268 318 368 418 468 518 568 618 668 718 768 818 868 918 968 1018 1068 1118 1168 1218 B 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 C 4 4 8 8 10 10 12 12 14 16 16 18 82 02 22 24 24 D - - 100 <</td><td>A 268 318 368 418 468 518 568 618 668 718 788 818 868 918 968 1018 108 1118 1168 1218 1268 B 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 C 4 4 8 8 10 10 12 12 14 16 16 18 18 20 20 22 24 26 D - - 100 <td< td=""><td>A 268 318 368 418 468 518 568 618 668 718 768 818 868 918 968 1018 1068 1118 1168 1218 128
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 7 7 C 4 4 8 8 10 10 12 12 14 14 16 16 18 82 20 20 D - - 100</td><td>A 268 318 368 418 468 518 568 618 668 718 768 818 868 918 968 1018 1068 B 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 C 4 4 8 8 10 10 12 12 14 16 16 18 82 02 22 20 22 20 22 20 22 20 22 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 23 25 58 108 58 108 58 108 58 108 58 108</td></td></td></t<> <td>A 268 318 368 418 468 518 568 618 668 718 768 818 868 918 968 1018 1068 1118 B 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 C 4 4 8 8 10 10 12 14 14 16 16 18 18 20 20 22 22 D - - 100</td> <td>A 268 318 368 418 468 518 568 618 668 718 768 818 868 918 968 1018 1068 1118 1168 B 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 C 4 4 8 8 10 10 12 14 14 16 16 18 18 20 20 22 22 24 D - - 100 <</td> <td>A 268 318 368 418 468 518 568 618 668 718 768 818 868 918 968 1018 1068 1118 1168 1218 B 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 C 4 4 8 8 10 10 12 12 14 16 16 18 82 02 22 24 24 D - - 100 <</td> <td>A 268 318 368 418 468 518 568 618 668 718 788 818 868 918 968 1018 108 1118 1168 1218 1268 B 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 C 4 4 8 8 10 10 12 12 14 16 16 18 18 20 20 22 24 26 D - - 100 <td< td=""><td>A 268 318 368 418 468 518 568 618 668 718 768 818 868 918 968 1018 1068 1118 1168 1218 128 1318 B 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10 C 4 4 8 8 10 10 12 12 14 16 16 18 18 20 22 22 24 26 26 D - - 100</td></td<></td> | A 268 318 368 418 468 518 568 618 668 718 768 818 B 0 0 1 1 2 2 3 3 4 4 5 5 C 4 4 8 8 10 10 12 14 14 16 16 D - - 100 1 | A 268 318 368 418 468 518 568 618 668 718 768 818 868 B 0 0 1 1 2 2 3 3 4 4 5 5 6 C 4 4 8 8 10 10 12 12 14 14 16 16 18 D - - 100 </td <td>A 268 318 368 418 468 518 568 618 668 718 768 818 868 918 B 0 0 1 1 2 2 3 3 4 4 5 5 6 6 C 4 4 8 8 10 10 12 12
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Cable track size	СТ	СТМ	CTL	CTXL						
Q1	448.5	448.5	448.5	465.5						
Q2	127.5	127.5	127.5	144.5						
S1	82	94	-	-						
S2	46	52.5	-	-						
* Dimensions Q1, Q2, S1 and S2 change depending on the size of the cable track.										

6BBE2 Ρ

RCP6 3-axis combination (XYB + Z-axis, base mount) X-axis: WSA16C (Straight) Y-axis: SA8R (Side-mounted) Z-axis: SA7R (Side-mounted)





Payload by Acceleration

- MHL type: X medium-speed/Y high-speed/Z low-speed
- MHM type: X medium-speed/Y high-speed/Z medium-speed MHH type: X medium-speed/Y high-speed/Z high-speed
- a high-speed

	MHS type: X medium-speed/Y high-speed/Z ultra								
and the second s	Y-axis stroke (mm)	50~400 (Every 50mm)							
	Speed Type					Ĩ			
	Acceleration/ deceleration (G)	MHL	MHM	MHH	MHS				
	0.1	6	4	2	1	Γ			
	0.3	-	4	2	1				
	* When X, Y and Z axes all h								

When X, Y and Z axes all have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

(Unit: kg)

MHS

1

1

450~500 (Every 50mm)

MHH

2

2

MHM

4

MHL

6

The photograph above shows the configuration direction "1" where all axes have cable tracks.
Please refer to P.3 for other configuration directions.

Cable Length										
Туре	Cable code	Length								
	1L	1m								
Standard	3L	3m								
type	5L	5m								
		Specified length (15m max.)								
Note 1. All	Note 1. All-axis standard cable is used.									

Cable Track

Туре	Model	Reference page	First wiring (X-axis lateral)	Second wiring (Y-axis lateral)	Third wiring (Z-axis lateral)		
Without cable track (cable only)	N		-	-	-		
Cable track S size (inner width: 38mm)	СТ		-	-	-		
Cable track M size (inner width: 50mm)	СТМ	See P.79	-	-	-		
Cable track L size (inner width: 63mm)	CTL	1	-	-	Cannot be selected *1		
Cable track XL size (inner width: 80mm)	CTXL]	-	Cannot be	selected *2		
*1 Only the first and second wiring can be	selected	*2 Only the first wiring can be selected					

Note 1. All-axis standard cable is Used.
 Note 2. The length of the second and third axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track.
 Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Specifications

opeemean	5115						
ltem		X-axis	Y-axis Z-a				
Axis model		RCP6-WSA16C	RCP6-SA8R	RCP6-SA7R			
Stroke (Every 50	mm)	50~1100mm	50~500mm	50~300mm			
	MHL			105mm/s			
Max speed *	MHM	210mm/s	400mm/s	210mm/s			
Max. speed *	MHH	2101111/5	4001111/5	420mm/s			
	MHS			640mm/s			
Motor size		56 High-thrust pulse motor	56 High-thrust pulse motor	56 Pulse motor			
	MHL			4mm			
Ball screw	MHM	10mm	20mm	8mm			
lead	MHH	TOITIIT	2011111	16mm			
	MHS			24mm			
Drive system		Ball screw ø16mm rolled C10	Ball screw ø16mm rolled C10	Ball screw ø12mm rolled C10			
Positioning repea	atability	±0.01mm					
Base material		Aluminum					
Ambient operating temperature, humidity		0~40°C, 85% RH or less (non-condensing)					

Maximum Stroke (X axis) 1100 mm Yaxis 500 mm Z axis 300 mm Max. Speed (Ultra High-speed type) Y axis 400 mm/s X axis 210 mm/s Z axis 640 mm/s

* The max. speed may not be reached if the travel distance is short or acceleration is low. Maximum speed may change depending on the stroke

NM

SR

See P.78

See P.78

Applicable Controllers

Controllers are sold separately. Please contact IAI for more information

r lease contact is a for more information										
🗆 X-axis: WSA16C, Y-axis: SA8R										
Туре	Reference page									
PCON-CFB/CGFB	Please see the RCP6 catalog or PCON-CB/CFB manual.									
□ Z-axis: SA7R										
Туре	Reference page									
PCON-CB/CGB										
PCON-CYB/PLB/POB (coming soon)	Please see the									
MCON-C/CG	dedicated catalog or manual.									
MCON-LC/LCG (coming soon)										
MSEL-PC/PG										
* Operation is possible with the high-output setting specification										

Operation is possible with the high-output setting specification.

When connecting to the MCON controller, "High-output setting specification" must be selected Please contact IAI regarding use with the high-output setting disabled.

For details, refer to the Maximum Speed by Stroke table on P.80. Options Option Reference Туре X-axis Y-axis Z-axis code page Standard equipment Brake В See P.77 0 Cable exit direction (Top) CJT See P.77 0 0 Cable exit direction (Right) CJR See P.77 Cannot be Ο Cable exit direction (Left) CJL See P.77 selected Cable exit direction (Bottom) CJB See P.77 Cannot be selected Standard equipment Cable exit direction (Outside) CJO See P.77

> Slider roller specification * Be sure to specify.

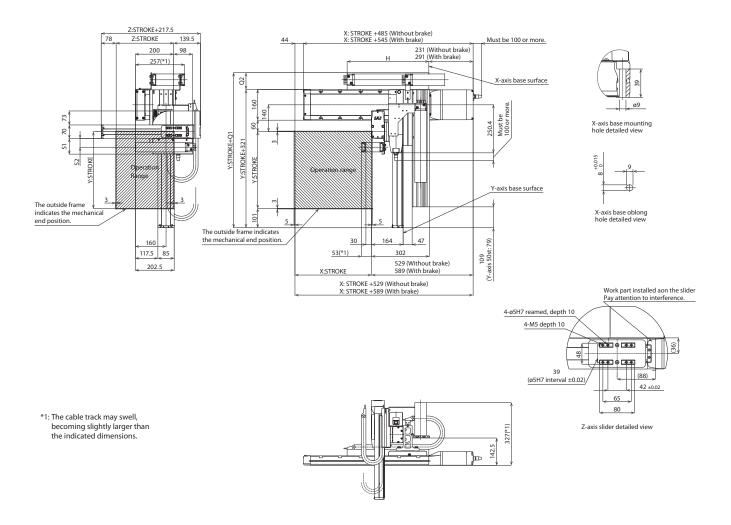
Non-motor end specification

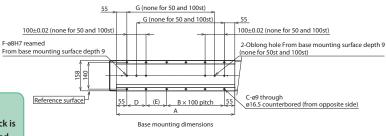




Note 1. The configuration position in the figure is home. Note 2. The diagram shows first, second and third wirings all with cable tracks.

Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.





(*) Notes

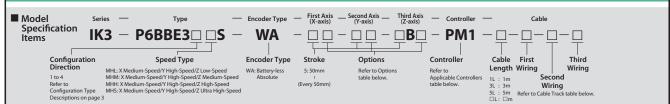
The moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.

Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	Cable	СТ	СТМ	CTL	CTXL
A	268	318	368	418	468	518	568	618	668	718	768	818	868	918	968	1018	1068	1118	1168	1218	1268	1318	track size	CI	CIM	CIL	CIAL
В	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	Q1	396.5	408.5	423.5	441.5
C	4	4	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	Q2	75.5	87.5	102.5	120.5
D	-	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	S1	82	94	-	-
E	158	208	58	108	58	108	58	108	58	108	58	108	58	108	58	108	58	108	58	108	58	108	S2	46	52.5	-	-
F	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	* Dimensions Q1, Q2, S1 and S2 change depending on the size			d \$2	
G	-	-	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158					
Н	251	276	301	326	351	376	401	426	451	476	501	526	551	576	601	626	651	676	701	726	751	776	of the cable track		5120		

6BBE3 P

RCP6 3-axis combination (XYB + Z-axis, base mount) X-axis: WSA16C (Straight) Y-axis: SA8C (Straight) Z-axis: SA7C (Straight)



Cable Track

Туре

Cable track S size (inner width: 38mm)

Without cable track (cable only)



Payload by Acceleration

- MHL type: X medium-speed/Y high-speed/Z low-speed
- MHM type: X medium-speed/Y high-speed/Z medium-speed
- MHH type: X medium-speed/Y high-speed/Z high-speed
- MHS type: X medium-speed/Y high-speed/Z ultra high-speed

Y-axis stroke (mm)	50	~400 (Ev	ery 50m	m)	450~500 (Every 50mm)				
Speed Type Acceleration/ deceleration (G)	MHL	МНМ	МНН	MHS	MHL	МНМ	МНН	MHS	
0.1	6	4	2	1	6	4	2	1	
0.3	-	4	2	1	-	-	2	1	

(Unit: kg)

Third wiring

(Z-axis lateral)

Cannot be selected *1

When X, Y and Z axes all have the same acceleration/deceleration. When there is significant vibration, decrease the speed and acceleration/deceleration as required.

First wiring

(X-axis lateral)

Second wiring

(Y-axis lateral)

Reference

page

The photograph above shows the configuration direction "1" where all axes have cable tracks.
Please refer to P.3 for other configuration directions.

Cable Length										
Туре	Cable code	Length								
	1L	1m								
Standard	3L	3m								
type	5L	5m								
	□L	Specified length (15m max.)								

Note 1. All-axis standard cable is used. Note 2. The length of the second and third axis cable is from the exit of the cable track. A separate cable is included for wiring inside the cable track. Note 3. The standard lengths are 1m, 3m and 5m, but other lengths can be specified in 1m increments up to 15m.

Cable track M size (inner width: 50mm) стм See P.79 Cable track L size (inner width: 63mm) CTL Cable track XL size (inner width: 80mm) CTXL Cannot be selected *2 *1 Only the first and second wiring can be selected *2 Only the first wiring can be selected

Model

Ν

СТ

Specifications

Specification	UIIS							
ltem		X-axis	X-axis Y-axis					
Axis model		RCP6-WSA16C	RCP6-SA8C	RCP6-SA7C				
Stroke (Every 50	mm)	50~1100mm	50~500mm	50~300mm				
	MHL			105mm/s				
Max speed *	MHM	210mm/s	400mm/s	210mm/s				
Max. speed *	MHH	210mm/s	400mm/s	420mm/s				
	MHS			640mm/s				
Motor size		56□ High-thrust pulse motor	56 High-thrust pulse motor	56 Pulse motor				
	MHL			4mm				
Ball screw	MHM	10mm	20mm	8mm				
lead	MHH	TOITIIT	2011111	16mm				
	MHS			24mm				
Drive system		Ball screw ø16mm rolled C10	Ball screw ø16mm rolled C10	Ball screw ø12mm rolled C10				
Positioning repeatability		±0.01mm						
Base material		Aluminum						
Ambient operating temperature, humidity		0~40°C, 85% RH or less (non-condensing)						

Maximum Stroke X axis 1100 mm Yaxis 500 mm Zaxis 300 mm Max. Speed (Ultra High-speed type) Yaxis 400 mm/s (X axis 210 mm/s) Zaxis 640 mm/s

Maximum speed may change depending on the stroke.

Applicable Controllers

Controllers are sold separately.

Please contact IAI for more information.

□ X-axis: WSA16C, Y-axis: SA8C

lype	Reference page					
PCON-CFB/CGFB	Please see the RCP6 catalog or PCON-CB/CFB manual					
□ Z-axis: SA7C						
Туре	Reference page					
PCON-CB/CGB						
PCON-CYB/PLB/POB (coming soon)	Please see the					
MCON-C/CG	dedicated catalog or manual.					
MCON-LC/LCG (coming soon)						
MSEL-PC/PG						

* Operation is possible with the high-output setting specification.

When connecting to the MCON controller, "High-output setting specification" must be selected Please contact IAI regarding use with the high-output setting disabled.

* The max. speed may not be reached if the travel distance is short or acceleration is low. For details, refer to the Maximum Speed by Stroke table on P.80.

Options					
Туре	Option code	Reference page	X-axis	Y-axis	Z-axis
Brake	В	See P.77	0	0	Standard equipment *
Cable exit direction (Top)	CJT	See P.77	0		
Cable exit direction (Right)	CJR	See P.77	0	Cann	ot be
Cable exit direction (Left)	CJL	See P.77	0	sele	cted
Cable exit direction (Bottom)	CJB	See P.77	0		
Non-motor end specification	NM	See P.78	0	0	0
Slider roller specification	SR	See P.78	0	0	0

* Outside as standard. Be sure to specify.

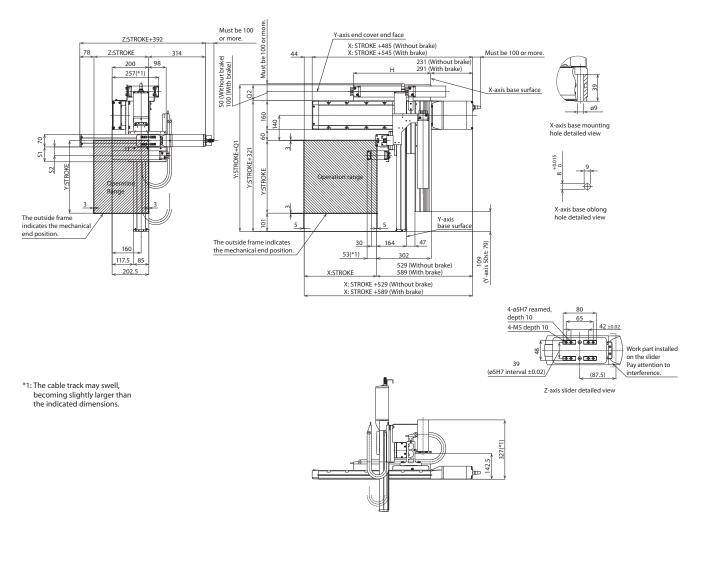


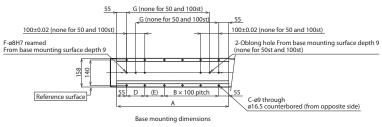


Note 1. The configuration position in the figure is home.

Note 2. The diagram shows first, second and third wirings all with cable tracks.

Note 3. For details on the cable track and cable track moving end bracket, refer to P.79.





(*) Notes

The moving end of the Z-axis cable track is to be fixed to a plate or the like mounted on the Z-axis slider by the customer.

Dimensions by Stroke

X: Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	Cable	CT	CTM	CTI	CTVI
A	268	318	368	418	468	518	568	618	668	718	768	818	868	918	968	1018	1068	1118	1168	1218	1268	1318	track size	СТ	CTM	CTL	CTXL
В	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	Q1	396.5	408.5	423.5	441.5
C	4	4	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	Q2	75.5	87.5	102.5	120.5
D	-	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	S1	82	94	-	-
E	158	208	58	108	58	108	58	108	58	108	58	108	58	108	58	108	58	108	58	108	58	108	S2	46	52.5	-	-
F	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	* Dimen	sions (01.02	S1 and	d \$2
G	-	-	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158					
Н	251	276	301	326	351	376	401	426	451	476	501	526	551	576	601	626	651	676	701	726	751	776	change depending on the s		. 3120		

Cartesian RoboCylinder Options

Brake

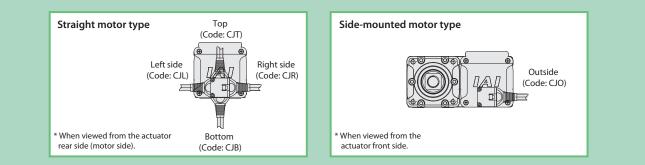
Option Code B

Description This is a holding mechanism that prevents the slider from falling and damaging any attached fittings when the power or servo is turned off.

Cable Exit Direction

Option Code CJT / CJR / CJL / CJB / CJO

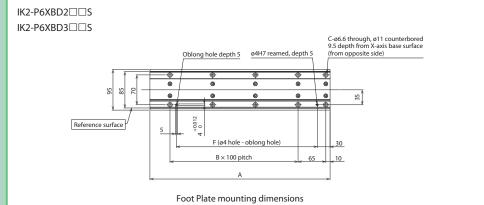
Description This option allows you to change the exit direction of the motor-encoder cable to top, bottom, left, or right.



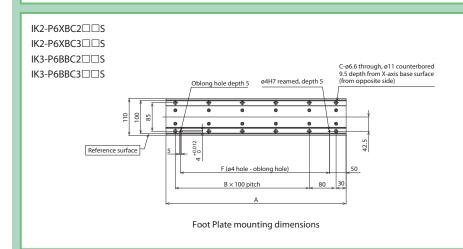
Foot Plate

Option Code **FTP**

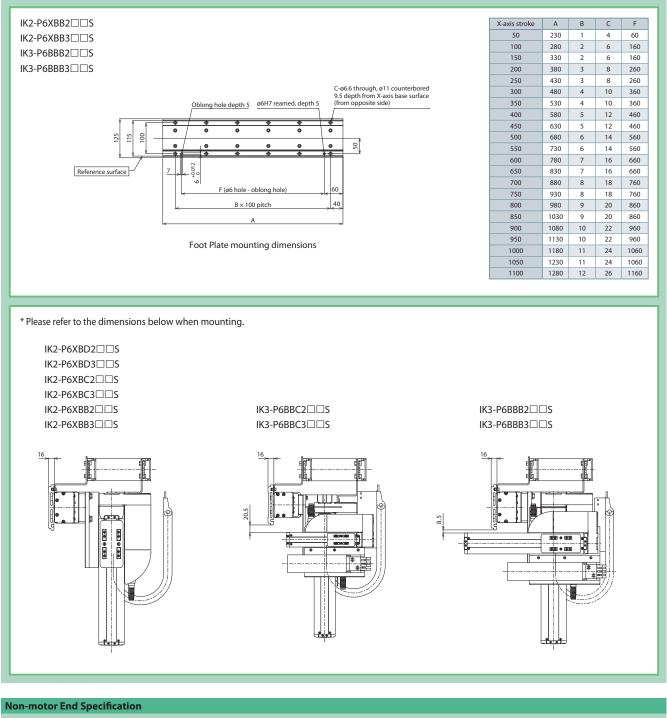
Description X-axis can be installed from the top with this Foot Plate.



X-axis stroke	А	В	С	F
50	172	0	4	30
100	222	1	6	130
150	272	1	6	130
200	322	2	8	230
250	372	2	8	230
300	422	3	10	330
350	472	3	10	330
400	522	4	12	430
450	572	4	12	430
500	622	5	14	530
550	672	5	14	530
600	722	6	16	630
650	772	6	16	630
700	822	7	18	730
750	872	7	18	730
800	922	8	20	830



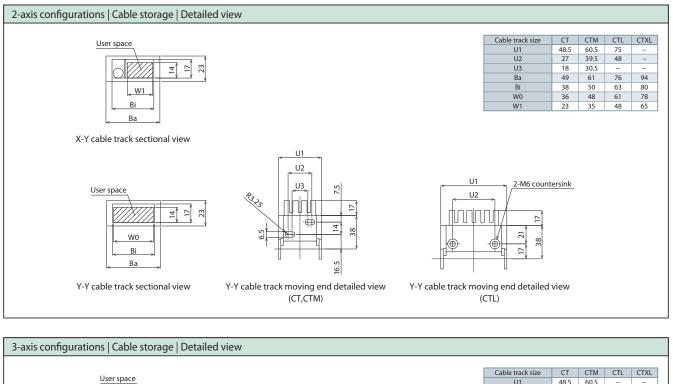
X-axis stroke	A	В	С	F
50	188	0	4	45
100	238	1	6	145
150	288	1	6	145
200	338	2	8	245
250	388	2	8	245
300	438	3	10	345
350	488	3	10	345
400	538	4	12	445
450	588	4	12	445
500	638	5	14	545
550	688	5	14	545
600	738	6	16	645
650	788	6	16	645
700	838	7	18	745
750	888	7	18	745
800	938	8	20	845

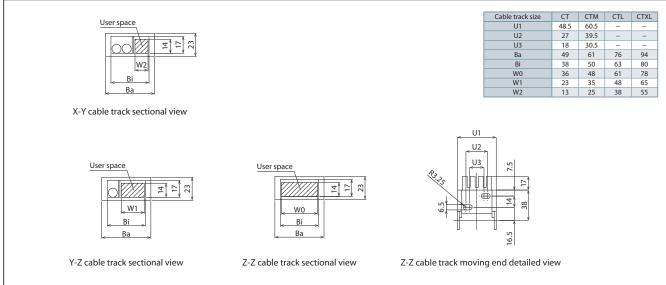


Slider Roller Specification	
Option Code SR	
Description The slider of the standard slider type specification is changed to the same roller structure as the	e cleanroom type. When using the slider
roller spec., the appearance and dimensions of the slider cover will be the same as the cleanro	om type.
Changing to roller specification will make the external view and dimensions of the slider cove	the same as the cleanroom type.

Appendix

Cable Track





Bigger user space is available by ordering as a special specification, if it is insufficient. *Please contact IAI for more information.

•Cable Length

Cable code	Length	RCP6 2-axis IK2-P6	RCP6 3-axis IK3-P6
1L	1m	0	0
2L	2m	0	0
3L	3m	0	0
4L	4m	0	0
5L	5m	0	0
6L	6m	0	0
7L	7m	0	0
8L	8m	0	0
9L	9m	0	0
10L	10m	0	0
11L	11m	0	0
12L	12m	0	0
13L	13m	0	0
14L	14m	0	0
15L	15m	0	0

Table of Maximum Speed by Stroke

Only models and axes whose maximum speed varies depending on the stroke are listed. For models and axes not listed below, the maximum speed is as stated on the product page for full stroke.

- IK2-P6XBD1□□S X-axis: SA6R
- IK2-P6XBD2□□S X-axis: SA6C
- IK2-P6XBD3□□S X-axis: SA6C

■ IK2-P6XBD3□□S X-axis:	(Unit: mm/s)	
Stroke	50~750	800
Speed type	(Every 50mm)	(mm)
SS	640	575

- IK2-P6XBC1□□S X-axis: SA7R
- IK2-P6XBC2□□S X-axis: SA7C
- IK2-P6XBC3□□S X-axis: SA7C

IK2-P6XBC3 SX-axis: SA7C (Unit: mm/s)							
Stroke Speed type	50~700 (Every 50mm)	750 (mm)	800 (mm)				
MM	280	275	245				
HH	56	50	500				
SS	640						

■ IK2-P6XBB1□□S X-axis: SA8R

■ IK2-P6XBB2□□S X-axis: SA8C

■ IK2-P6XBB3□□S X-axis: SA8C

■ IK2-P6XBB3□□S X-axis: SA8C								
Stroke Speed type	50~900 (Every 50mm)	950 (mm)	1000 (mm)	1050 (mm)	1100 (mm)			
MM	300	285	260	235	220			
НН			400					
SS			650					

■ IK2-P6XBE1□□S X-axis: WSA16R

■ IK2-P6XBE2□□S X-axis: WSA16C

■ IK2-P6XBE3□□S X-axis: WSA16C

■ IK2-P6XBE3□□S X-axis: WSA16C (Unit: mm						
Stroke Speed type	50~1050 (Every 50mm)	1100 (mm)				
MH	210	205				
HH	365					

■ IK2-P6YBD1□□S Y-axis: SA6R

■ IK2-P6YBD2□□S Y-axis: SA6C

■ IK2-P6YBD3□□S Y-axis: SA6C

				(
Stroke	50050	700	750	800
Speed type	(Every 50mm)	(mm)	(mm)	(mm)
SM	800	735	650	575
SH	800	/35	050	575

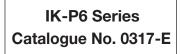
(Unit: mm/s)

■ IK3-P6BBE1□□S X-axis: WSA16R

■ IK3-P6BBE2□□S X-axis: WSA16C

■ IK3-P6BBE3□□S X-axis: WSA16C

■ IK3-P6BBE3□□S X-axis: WSA16C						
Speed type	50~1050 (Every 50mm)	1100 (mm)				
MHL						
MHM	210	205				
MHH	210	205				
MHS						



The information contained in this catalog is subject to change without notice for the purpose of product inprovement





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