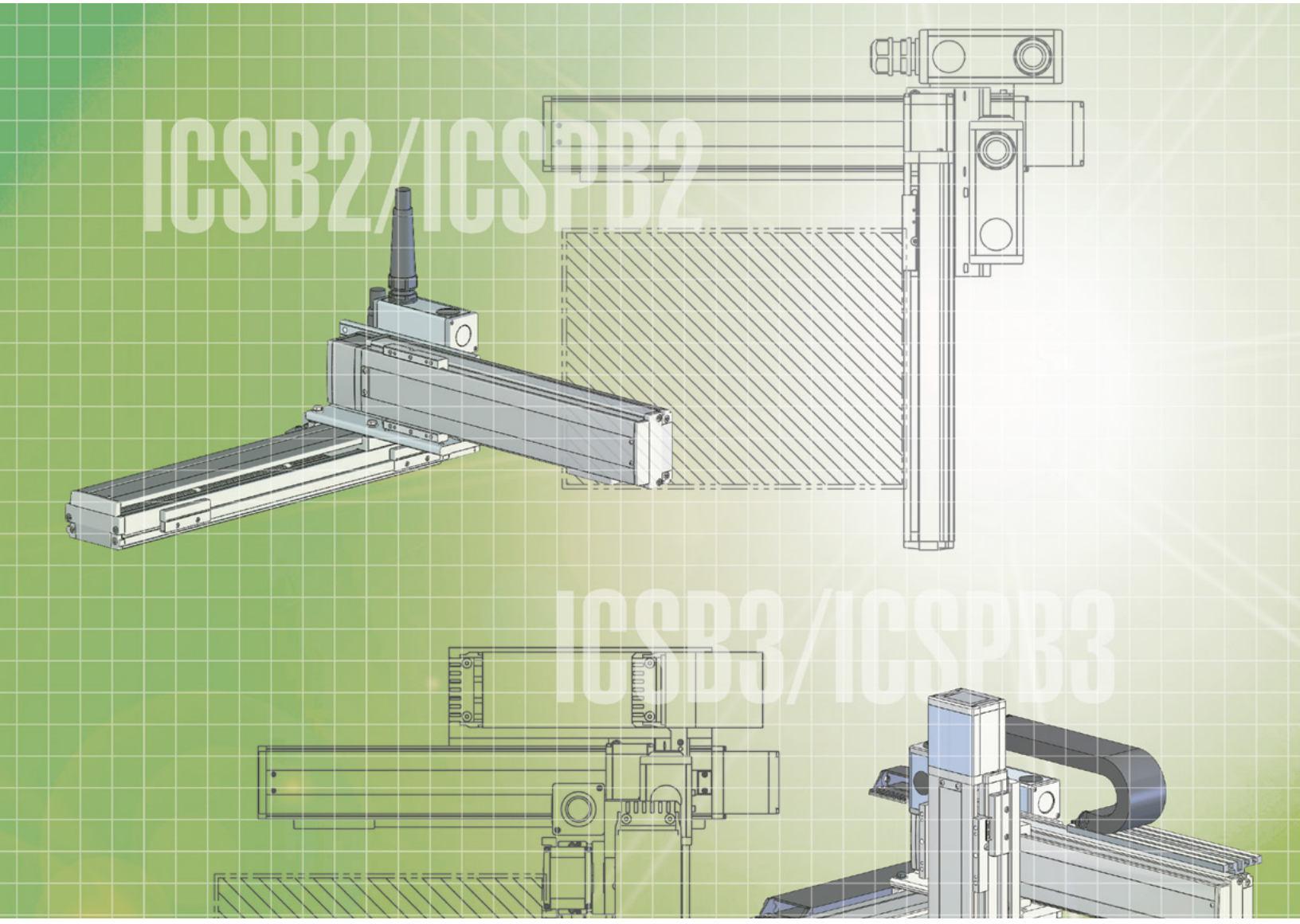
IAI
Quality and Innovation

# Cartesian Robot ICSB/ICSPB

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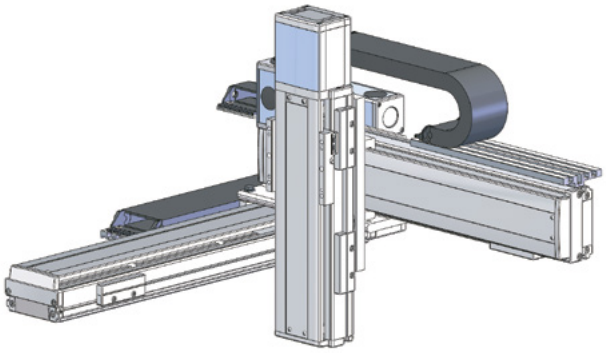
# The ICSA Series Cartesian Robots Have Been Totally Renewed!



The ICSB/ICSPB Series Cartesian Robots selected the most frequently used seven 2-axis configuration and seven 3-axis configuration patterns which include brackets and cabling ready to be assembled immediately after delivery.

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## ICSB Series [Standard Specifications] / ICSPB Series [High-Precision Specifications]

### Features

### 1 Great Improvements in Performance

Great improvements in precision, payload, acceleration and deceleration compared to the conventional ICSA series models.

**Positioning Repeatability**

Standard Specifications

**±0.02mm→ ±0.01mm**

High-Precision Specifications

**±0.01mm→ ±0.005mm**

**Payload**

Cantilevered 3-axis Configuration Maximum Payload

**19kg →36.4kg**

**Acceleration and Deceleration**

Rated Acceleration/ Deceleration

**0.3G→0.4G**

Maximum Acceleration/ Deceleration

**1.0G→1.2G**

Note: Positioning repeatability conforms to the specification of each configured axis.

### 2 Many Variations Available

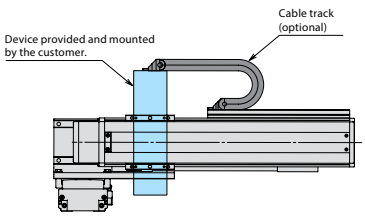
The 2-axis and 3-axis units each have seven types of configurations available. With options for axis size and configuration direction, you are able to select from a total of 834 variations.

| 2-axis Configuration Types | 3-axis Configuration Types |
|---|---|
| 226 | 608 |

### 3 Cable Track Option for Customer Provided Device

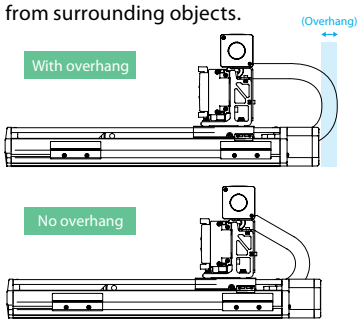
You have the option of connecting a customer provided device to the XYB/XYBG types through the use of a cable track.

For details, see page 14



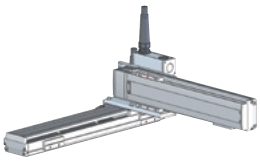

### 4 No Cable Track Overhang

Since the mounting position of the cable track was moved, it no longer sticks out from the main device, meaning you do not have to worry about interference from surrounding objects.



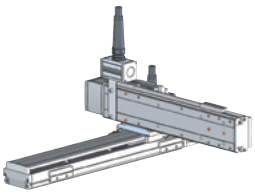
# Variations

## 2-axis Configurations



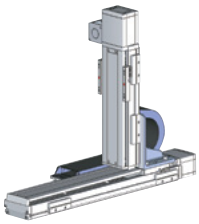
Y-axis Base Mount

**XYB Type**
(→ P. 17)



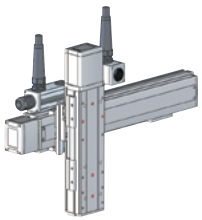
Y-axis Slider Mount

**XYS Type**
(→ P. 57)



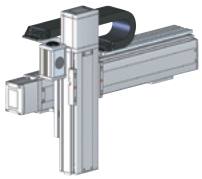
Z-axis Upright Mount

**XZ Type**
(→ P. 71)



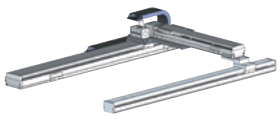
Z-axis Slider Mount

**YZS Type**
(→ P. 87)



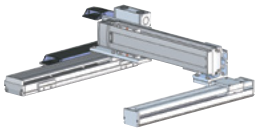
Z-axis Base Mount

**YZB Type**
(→ P. 97)



Y-axis Flat-mounted Gantry

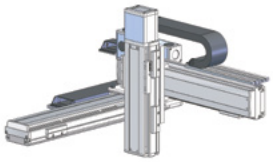
**XYG Type**
(→ P. 109)



Y-axis Side-mounted Gantry

**XYBG Type**
(→ P. 113)

## 3-axis Configurations

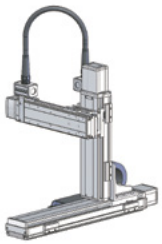


Y-axis Base Mount
Z-axis Base Mount

**XYB + Z Base Mount Type**
(→ P. 135)

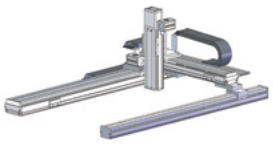
Y-axis Base Mount
Z-axis Slider Mount

**XYB + Z Slider Mount Type**
(→ P. 189)



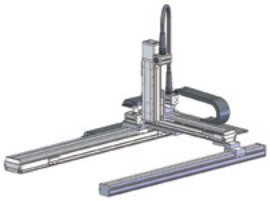
Z-axis Upright Mount
Y-axis Slider Mount

**XZ + Y Slider Mount Type**
(→ P. 225)



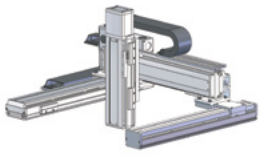
Y-axis Flat-mounted Gantry
Z-axis Base Mount

**XYG + Z Base Mount Type**
(→ P. 229)



Y-axis Flat-mounted Gantry
Z-axis Slider Mount

**XYG + Z Slider Mount Type**
(→ P. 241)



Y-axis Side-mounted Gantry
Z-axis Base Mount

**XYBG + Z Base Mount Type**
(→ P. 253)

Y-axis Side-mounted Gantry
Z-axis Slider Mount

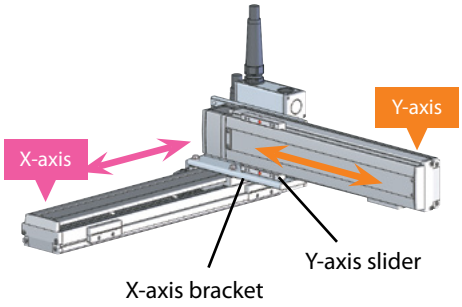
**XYBG + Z Slider Mount Type**
(→ P. 285)

# 2-axis Configuration Robot Type Descriptions

We selected the seven most frequently used configurations with brackets and cabling ready to be assembled.
This wide variety lineup of configurations ranges from lightweight to heavyweight, short stroke to long stroke, and the optimal device can be selected based on your intended use.

## 1 XYB (Y-axis Base Mount) Type

→ P. 17




This is a basic configuration where the Y-axis base is secured onto the X-axis bracket. It is operated by attaching a device or Z-axis to the Y-axis slider.

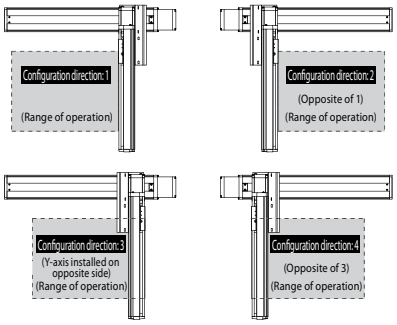
### Highlight 1

You can choose from 4 options for the Y-axis configuration direction (see the diagram on the right).

### Highlight 2

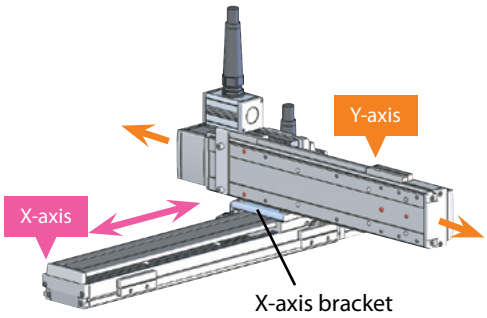
For the Y-axis wiring, you can select either a self-standing cable or a cable track.

### Configuration Direction




## 2 XYS (Y-axis Slider Mount) Type

→ P. 57




This type secures the Y-axis slider on to the X-axis bracket, and the Y-axis itself moves. Please use this option when the Y-axis needs to be moved back and forth in order to avoid obstacles.

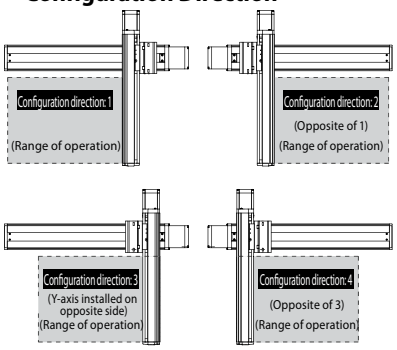
### Highlight 1

You can choose from 4 options for the Y-axis configuration direction (see the diagram on the right).

### Highlight 2

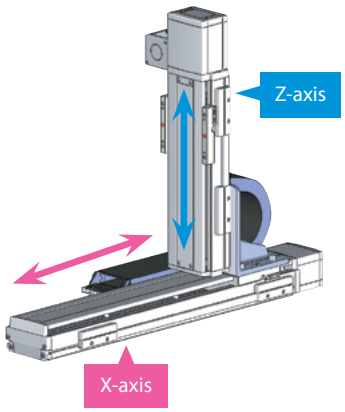
Only the self-standing cable option is available for the Y-axis wiring specification.

### Configuration Direction




## 3 XZ (Z-axis Upright Mount) Type

→ P. 71




This type mounts the Z-axis (vertical axis) in an upright position on top of the X-axis. Please use this type in such applications as inserting loads into a stacker or moving a pallet up and down.

### Highlight 1

You can choose from six options for the Z-axis configuration direction (see the diagram on the right).

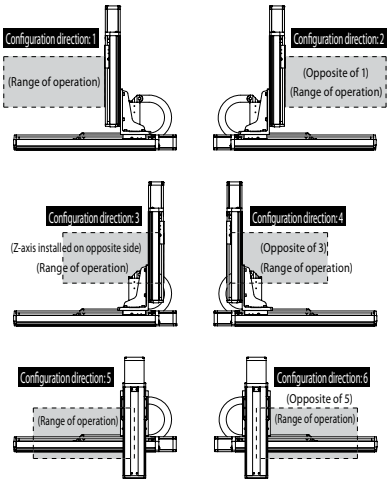
### Highlight 2

Since the Z-axis comes equipped with a brake, the slider will not fall even when the power is shut off.

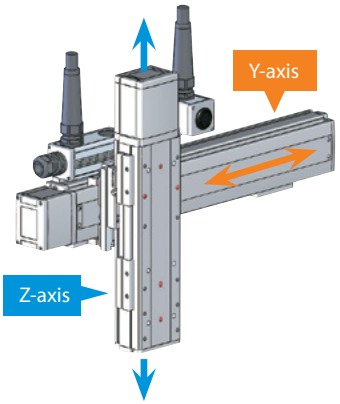
### Highlight 3

The maximum stroke is 2,500mm for the X-axis and 500mm for the Z-axis. (Please consult IAI if you need a longer stroke.)

### Configuration Direction

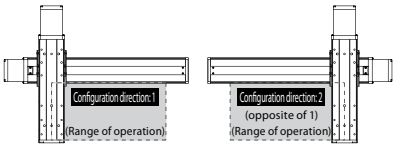


## 4 YZS (Z-axis Slider Mount) Type → P. 87



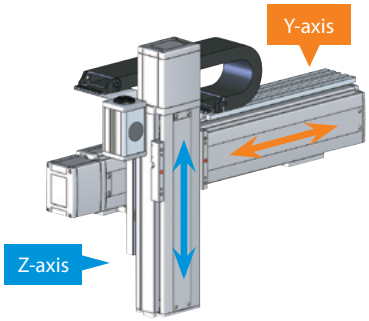

This type orients the Y-axis horizontally and its slider connects with the Z-axis (vertical axis) slider. Since the Z-axis moves up and down, this type can be fitted with another device to transfer loads.

### Highlight 1
Since the Z-axis comes equipped with a brake, the slider will not fall even when the power is shut off.

### Configuration Direction



### Highlight 2
The Z-axis cable comes equipped with a self-standing cable; however, it is also compatible with a cable track (custom order).

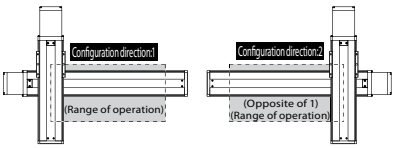
## 5 YZB (Z-axis Base Mount) Type → P. 97




This type orients the Y-axis horizontally and mounts the Z-axis (vertical axis) base onto the Y-axis slider. Since the Z-axis moves up and down, this type can be fitted with tooling or another device to transfer loads.

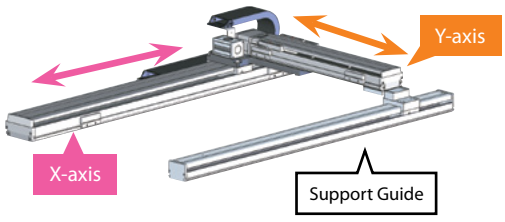
### Highlight 1
This type has a higher payload capacity compared to the YZS (Z-axis slider mount) type.

### Highlight 2
Since the Z-axis comes standard with a brake, the slider will not drop even when the power is turned off.

### Configuration Direction


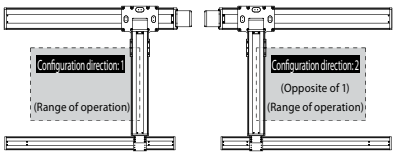

### Highlight 3
For Z-axis wiring, you can select from either a self-standing cable or a cable track.

## 6 XYG (Y-axis Flat-mounted Gantry) Type → P. 109



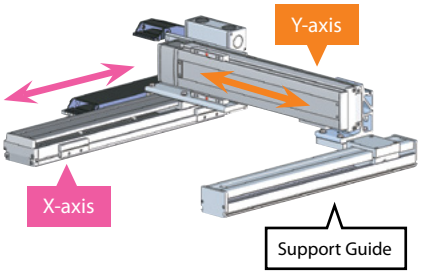

This type lays the Y-axis of the XYB type horizontally, with a support guide attached to the tip of the Y-axis. Please use this type when transferring heavy loads or when the Y-axis stroke is long and there is a risk of sagging.

### Highlight 1
A maximum of 45kg can be transferred.

### Configuration Direction



### Highlight 2
The maximum stroke is 2,500mm for the X-axis and 1,200mm for the Y-axis. (Please consult IAI if you need a longer stroke.)

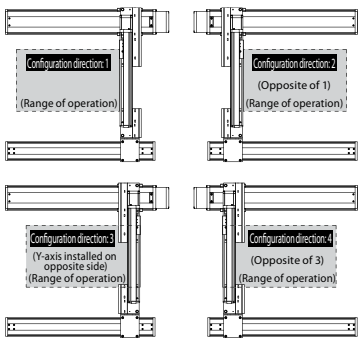
## 7 XYBG (Y-axis Side-mounted Gantry) Type → P. 113




This type lays the Y-axis of the XYB type on its side, with a support guide attached to the tip of the Y-axis. Please use this type when transferring heavy loads or when the Y-axis tip is at risk of sagging.

### Highlight 1
A maximum of 60 kg can be transferred.

### Highlight 2
Compared to the XYG type, both the X-axis and Y-axis are set for a shorter stroke.

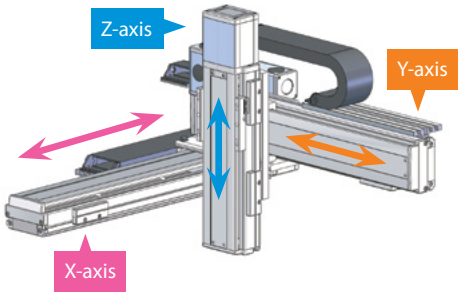
### Configuration Direction


# 3-axis Configuration Robot Type Descriptions

The 3-axis configuration type uses the 2-axis XYB (XY base mount) type and XYG/XYBG (XY gantry) type as a base, with the added vertical Z-axis. Furthermore, the XZY type, which uses the XZ (Z-axis upright mount) type as a base with the added Y-axis, has also been added to the lineup.

## 1 XYB (Y-axis Base Mount) + Z-axis Base Mount Type

→ P. 135

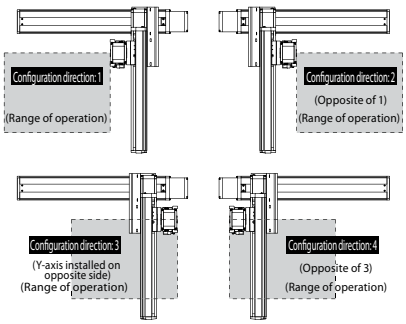



This type mounts a Z-axis base to an XYB type (Y-axis base mounted on an X-axis bracket) Y-axis slider.

**Highlight**

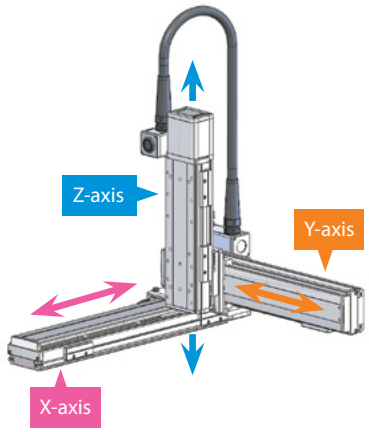
Since the body of the Z-axis is secured on the slider moving up and down, it has a greater vertical load capacity compared to the Z-axis slider mounted type.

**Configuration Direction**




## 2 XYB (Y-axis Base Mount) + Z-axis Slider Mount Type

→ P. 189

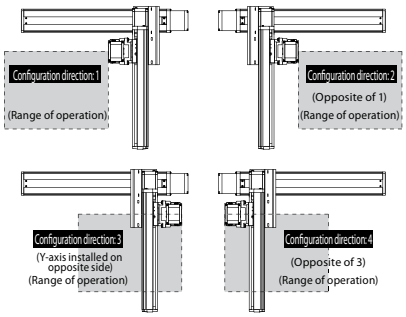



This type mounts a Z-axis slider to an XYB type (Y-axis base mounted on an X-axis bracket) Y-axis slider.

**Highlight**

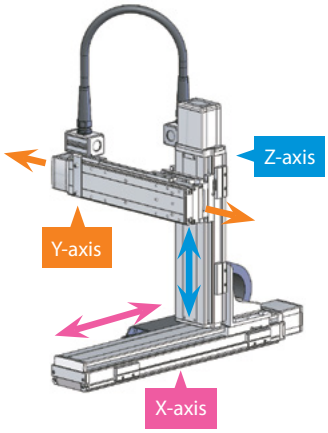
Since the body of the Z-axis moves up and down, it is suitable for when there are obstacles during movement.

**Configuration Direction**




## 3 XZ (Z-axis Upright Mount) + Y-axis Slider Mount Type

→ P. 225

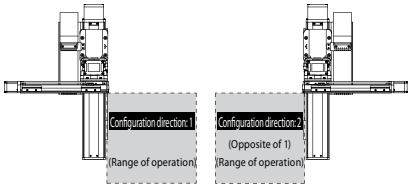



This type mounts a Y-axis slider to an XZ type (Z-axis mounted upright on the X-axis) Z-axis slider.

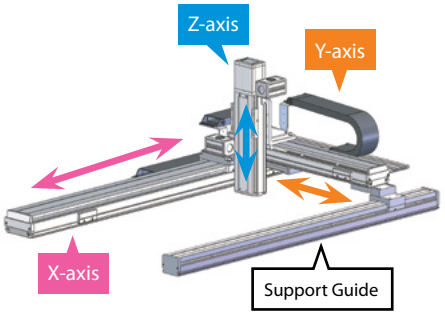
**Highlight**

It is suitable for moving and inserting work parks to a stacker as well as transporting objects on a wall.

**Configuration Direction**



## 4 XYG (Y-axis Flat-mounted Gantry) + Z-axis Base Mount Type → P. 229

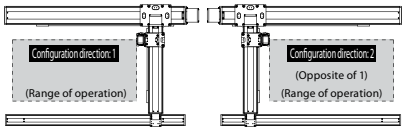



This type mounts the Z-axis base to an XYG type (sets an X-axis and support guide parallel to each other, which supports the Y-axis) Y-axis slider.

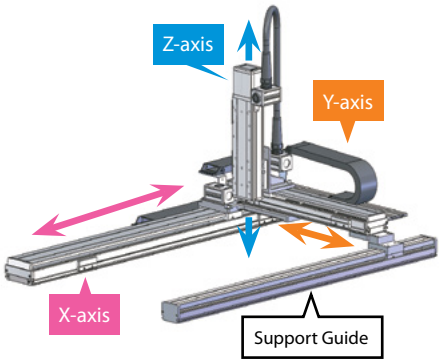
### Highlight

Since the body of the Z-axis is secured on the slider moving up and down, it has a higher vertical load capacity compared to the Z-axis slider mounted type.

### Configuration Direction




## 5 XYG (Y-axis Flat-mounted Gantry) + Z-axis Slider Mount Type → P. 241

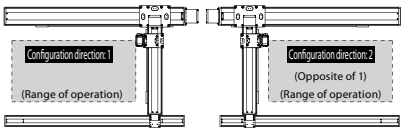



This type mounts a Z-axis slider to the XYG type (sets an X-axis and support guide parallel to each other, which supports the Y-axis) Y-axis slider.

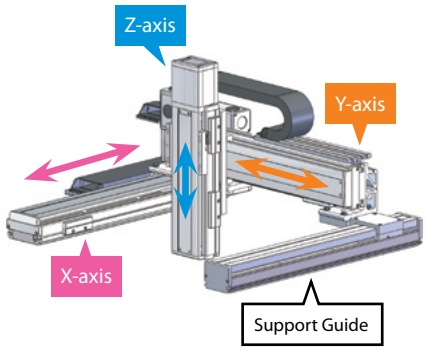
### Highlight

Since the body of the Z-axis moves up and down, it is suitable for when there are obstacles during movement.

### Configuration Direction




## 6 XYBG (Y-axis Side-mounted Gantry) + Z-axis Base Mount Type → P. 253

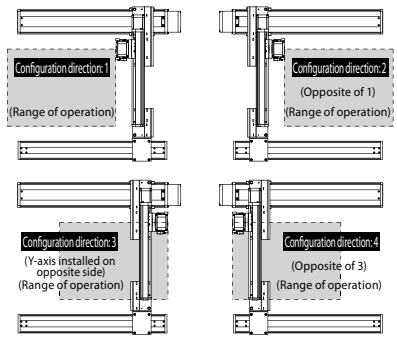



This type mounts a Z-axis base to an XYBG type (a support guide attached to the end of the XYB type Y-axis) Y-axis slider.

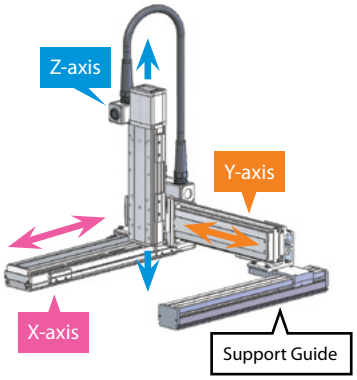
### Highlight

Since the body of the Z-axis is secured on the slider moving up and down, it has a higher vertical load capacity compared to the Z-axis slider mounted type.

### Configuration Direction




## 7 XYBG (Y-axis Side-mounted Gantry) + Z-axis Slider Mount Type → P. 285

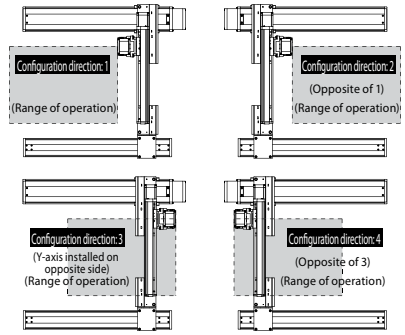



This type mounts a Z-axis slider to the XYBG type (a support guide attached to the end of the XYB type Y-axis) Y-axis slider.

### Highlight

Since the body of the Z-axis moves up and down, it is suitable for when there are obstacles during movement.

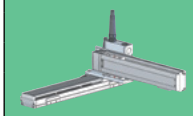
### Configuration Direction



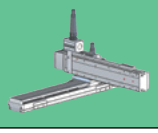
# 2-axis Configuration Model Selection Tables

In the following Model Specification Tables by Type, please select the best suitable model by comparing the stroke, speed, and payload.

## Cartesian Robot XYB (Y-axis Base Mount) Type

| Classification | X-axis Stroke (mm) | Payload by Y-axis Stroke (kg) | | | | | | | | | | | | | Max. Speed (mm/s) | | Model | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 100 (mm) | 150 (mm) | 200 (mm) | 250 (mm) | 300 (mm) | 350 (mm) | 400 (mm) | 450 (mm) | 500 (mm) | 550 (mm) | 600 (mm) | 650 (mm) | 700 (mm) | X-axis | Y-axis | | |
| B□□□ [ XY 2-axis Configuration Y-axis Base Mount ]  | 100~900 | 6.1 | 5.8 | 5.5 | 5.3 | 5.0 | 4.7 | 4.5 | – | | | | | | 960 | 960 | BA□H | → P. 17 |
| | | 19.4 | 19.0 | 16.4 | 13.9 | 12.0 | 10.3 | 9.0 | – | | | | | | 480 | 480 | BA□M | → P. 19 |
| | 100~1100 | 12.0 | 12.0 | 12.0 | 11.8 | 11.5 | 11.3 | 11.0 | – | | | | | | 1200 | 960 | BB□H | → P. 21 |
| | | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 18.6 | 16.6 | – | | | | 1200 | 1200 | BC□H | → P. 25 |
| | | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 23.0 | 22.0 | – | | | | | | 600 | 480 | BB□M | → P. 23 |
| | | 30.0 | 30.0 | 29.5 | 29.2 | 26.7 | 23.5 | 20.9 | 18.6 | 16.6 | – | | | | 600 | 600 | BC□M | → P. 27 |
| | 100~1300 | 20.9 | 20.1 | 19.3 | 18.5 | 17.7 | 16.9 | 16.2 | 15.4 | 14.6 | 13.8 | 13.1 | 12.2 | 11.5 | 2400 | 2400 | BG□S | → P. 41 |
| | | 23.1 | 22.3 | 21.5 | 20.7 | 20.0 | 19.2 | 18.5 | 17.6 | 16.8 | 16.0 | 15.3 | 14.5 | 13.8 | 2400 | 2400 | BK□H | → P. 45 |
| | | 25.7 | 25.1 | 24.6 | 23.9 | 23.4 | 22.9 | 22.3 | 21.7 | 21.2 | 20.5 | 20.0 | 19.4 | 18.9 | 2400 | 1800 | BE□S | → P. 31 |
| | | 45.0 | 45.0 | 45.0 | 45.0 | 43.4 | 38.8 | 34.9 | 31.5 | 28.6 | 26.0 | 23.7 | 21.6 | 19.7 | 1200 | 1200 | BE□H | → P. 33 |
| | | 60.0 | 60.0 | 55.6 | 48.8 | 43.4 | 38.8 | 34.9 | 31.5 | 28.6 | 26.0 | 23.7 | 21.6 | 19.7 | 600 | 600 | BE□M | → P. 35 |
| | | 64.5 | 63.7 | 62.9 | 62.1 | 59.9 | 54.1 | 49.8 | 44.8 | 40.9 | 37.4 | 34.3 | 31.5 | 28.9 | 1200 | 1200 | BK□M | → P. 47 |
| | 100~1500 | 36.4 | 35.6 | 34.8 | 34.0 | 33.3 | 32.4 | 31.7 | 30.9 | 30.1 | 27.4 | 24.6 | 22.0 | 19.6 | 2500 | 2400 | BM□H | → P. 53 |
| | | 78.6 | 70.9 | 61.8 | 54.2 | 48.0 | 42.7 | 38.2 | 34.1 | 30.6 | 27.4 | 24.6 | 22.0 | 19.6 | 1250 | 1200 | BM□M | → P. 55 |
| | 800~2000 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 18.6 | 18.6 | – | | | | 1200 | 1200 | BD□H | → P. 29 |
| | 1000~2500 | 20.9 | 20.1 | 19.3 | 18.5 | 17.7 | 16.9 | 16.2 | 15.4 | 14.6 | 13.8 | 13.1 | 12.2 | 11.5 | 2400 | 2400 | BH□S | → P. 43 |
| | | 25.7 | 25.1 | 24.6 | 23.9 | 23.4 | 22.9 | 22.3 | 21.7 | 21.2 | 20.5 | 20.0 | 19.4 | 18.9 | 2400 | 1800 | BF□S | → P. 37 |
| | | 45.0 | 45.0 | 45.0 | 45.0 | 43.4 | 38.8 | 34.9 | 31.5 | 28.6 | 26.0 | 23.7 | 21.6 | 19.7 | 1200 | 1200 | BF□H | → P. 39 |
| | 900~2500 | 36.6 | 35.8 | 35.0 | 34.2 | 33.5 | 32.7 | 32.0 | 31.1 | 30.3 | 29.5 | 28.8 | 28.0 | 27.3 | 2400 | 2400 | BL□H | → P. 49 |
| | | 65.0 | 65.0 | 65.0 | 65.0 | 62.3 | 55.9 | 50.7 | 46.1 | 42.0 | 38.4 | 35.2 | 32.2 | 29.6 | 1200 | 1200 | BL□M | → P. 51 |

## Cartesian Robot XYS (Y-axis Slider Mount) Type

| Classification | X-axis Stroke (mm) | Payload by Y-axis Stroke (kg) | | | | | | | | | | | | | Max. Speed (mm/s) | | Model | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 100 (mm) | 150 (mm) | 200 (mm) | 250 (mm) | 300 (mm) | 350 (mm) | 400 (mm) | 450 (mm) | 500 (mm) | 550 (mm) | 600 (mm) | 650 (mm) | 700 (mm) | X-axis | Y-axis | | |
| S□□□ [ XY 2-axis Configuration Y-axis Slider Mount ]  | 100~600 | 6.6 | 6.3 | 6.1 | 5.8 | 5.5 | 4.9 | 3.9 | – | | | | | | 960 | 960 | SA□H | → P. 57 |
| | | 19.9 | 15.1 | 10.8 | 8.1 | 6.3 | 4.9 | 3.9 | – | | | | | | 480 | 480 | SA□M | → P. 59 |
| | 100~800 | 10.0 | 9.4 | 8.7 | 8.2 | 7.7 | 7.2 | 6.7 | 6.2 | 5.6 | – | | | | 1200 | 1200 | S1C□H | → P. 61 |
| | | 22.6 | 21.8 | 21.0 | 20.2 | 19.5 | 18.7 | 16.9 | 13.8 | 11.3 | 9.2 | 7.4 | – | | 2400 | 2400 | SG□S | → P. 67 |
| | | 27.5 | 26.7 | 26.0 | 25.2 | 24.4 | 20.8 | 17.1 | 14.0 | 11.6 | 9.4 | 7.6 | – | | 1200 | 1200 | SG□H | → P. 69 |
| | | 30.0 | 29.0 | 27.4 | 21.0 | 16.6 | 13.4 | 10.9 | 8.9 | 7.3 | – | | | | 600 | 600 | S1C□M | → P. 63 |
| | | 31.7 | 31.1 | 27.1 | 20.7 | 16.4 | 13.2 | 10.7 | 8.7 | 7.0 | – | | | | 1200 | 1200 | S2C□H | → P. 65 |

## Cartesian Robot XZ (Z-axis Upright Mount) Type

| Classification | X-axis Stroke (mm) | Payload by Z-axis Stroke (kg) | | | | | | | | | | | | | Max. Speed (mm/s) | | Model | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 100 (mm) | 150 (mm) | 200 (mm) | 250 (mm) | 300 (mm) | 350 (mm) | 400 (mm) | 450 (mm) | 500 (mm) | 550 (mm) | 600 (mm) | 650 (mm) | 700 (mm) | X-axis | Z-axis | | |
| Z□□□ [ XZ 2-axis Configuration Z-axis Upright Mount ]  | 100~900 | 7.0 | 7.0 | 6.6 | 5.6 | 4.8 | – | | | | | | | | 960 | 480 | ZA□H | → P. 71 |
| | | 9.2 | 7.8 | 6.7 | 5.7 | 4.8 | – | | | | | | | | 480 | 240 | ZA□M | → P. 73 |
| | 100~1100 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 9.7 | 8.4 | – | | | | | | 1200 | 600 | Z1C□H | → P. 75 |
| | | 18.3 | 16.0 | 14.1 | 12.3 | 10.7 | 9.3 | 8.0 | – | | | | | | 1200 | 600 | Z2C□H | → P. 79 |
| | | 18.9 | 16.7 | 14.8 | 12.9 | 11.4 | 9.8 | 9.0 | – | | | | | | 600 | 300 | Z1C□M | → P. 77 |
| | 100~1300 | 20.0 | 19.7 | 17.4 | 15.2 | 13.3 | 11.4 | 9.8 | 8.2 | 6.7 | – | | | | 2400 | 1200 | ZG□S | → P. 83 |
| | 800~2000 | 18.3 | 16.0 | 14.1 | 12.3 | 10.7 | 9.3 | 8.0 | – | | | | | | 1200 | 600 | ZD□H | → P. 81 |
| | 1000~2500 | 20.0 | 19.7 | 17.4 | 15.2 | 13.3 | 11.4 | 9.8 | 8.2 | 6.7 | – | | | | 2400 | 1200 | ZH□S | → P. 85 |

## Cartesian Robot YZS (Z-axis Slider Mount) Type

| Classification | Y-axis Stroke (mm) | Payload by Z-axis Stroke (kg) 100 (mm) | 150 (mm) | 200 (mm) | 250 (mm) | 300 (mm) | 350 (mm) | 400 (mm) | 450 (mm) | 500 (mm) | 550 (mm) | 600 (mm) | 650 (mm) | 700 (mm) | Max. Speed (mm/s) Y-axis | Z-axis | Model | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YS□□□ [YZ 2-axis Configuration Z-axis Slider Mount]  | 100~500 | 3.9 | 3.5 | 3.2 | 2.8 | 2.5 | 2.2 | 1.9 | – | | | | | | 960 | 480 | YSA□H | → P. 87 |
| | | 11.0 | 10.6 | 10.3 | 9.9 | 9.6 | 8.9 | 8.6 | – | | | | | | 480 | 240 | YSA□M | → P. 89 |
| | 100~700 | 13.3 | 12.8 | 12.2 | 11.6 | 11.1 | 10.4 | 9.9 | 9.4 | 8.8 | – | | | | 600 | 300 | YSC□M | → P. 93 |
| | | 13.6 | 12.9 | 12.4 | 11.7 | 11.1 | 10.5 | 10.0 | 9.3 | 8.7 | – | | | | 1200 | 600 | YSC□H | → P. 91 |
| | | 28.8 | 28.0 | 27.2 | 26.4 | 25.7 | 24.8 | 24.1 | 23.3 | 22.5 | – | | | | 1200 | 600 | YSG□H | → P. 95 |

## Cartesian Robot YZB (Z-axis Base Mount) Type

| Classification | Y-axis Stroke (mm) | Payload by Z-axis Stroke (kg) 100 (mm) | 150 (mm) | 200 (mm) | 250 (mm) | 300 (mm) | 350 (mm) | 400 (mm) | 450 (mm) | 500 (mm) | 550 (mm) | 600 (mm) | 650 (mm) | 700 (mm) | Max. Speed (mm/s) Y-axis | Z-axis | Model | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YB□□□ [YZ 2-axis Configuration Z-axis Base Mount]  | 100~900 | 7.0 | 7.0 | 6.7 | 6.3 | 6.1 | 5.7 | 5.4 | – | | | | | | 960 | 480 | YBA□H | → P. 97 |
| | | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | – | | | | | | 480 | 240 | YBA□M | → P. 99 |
| | 100~1100 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | – | | | | 1200 | 600 | YBC□H | → P. 101 |
| | | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | – | | | | 600 | 300 | YBC□M | → P.103 |
| | 100~1300 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 19.7 | 18.9 | 18.0 | – | | | | 2400 | 1200 | YBG□S | → P. 105 |
| | | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | – | | | | 1200 | 600 | YBG□H | → P. 107 |

## Cartesian Robot XYG (Y-axis Flat-mounted Gantry) Type

| Classification | X-axis Stroke (mm) | Payload by Y-axis Stroke (kg) 500 (mm) | 550 (mm) | 600 (mm) | 650 (mm) | 700 (mm) | 800 (mm) | 900 (mm) | 1000 (mm) | 1100 (mm) | 1200 (mm) | Max. Speed (mm/s) X-axis | Y-axis | Model | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G□□□□ [XY 2-axis Gantry Configuration Y-axis Flat-mounted Gantry]  | 1000~2500 | 45.0 | | | | | – | | | | | 1200 | 1200 | G1J□H | → P. 109 |
| | | – | | | | | 45.0 | 43.6 | 38.3 | 33.7 | 29.6 | 1200 | 1200 | G2J□H | → P. 111 |

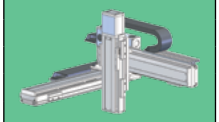
## Cartesian Robot XYBG (Y-axis Side-mounted Gantry) Type

| Classification | X-axis Stroke (mm) | Payload by Y-axis Stroke (kg) 300 (mm) | 350 (mm) | 400 (mm) | 450 (mm) | 500 (mm) | 550 (mm) | 600 (mm) | 650 (mm) | 700 (mm) | 750 (mm) | 800 (mm) | 850 (mm) | 900 (mm) | 950 (mm) | 1000 (mm) | 1050 (mm) | 1100 (mm) | Max. Speed (mm/s) X-axis | Y-axis | Model | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G□□□□ [XY 2-axis Configuration Y-axis Side-mounted Gantry]  | 100~1100 | 12.9 | 12.5 | 12.3 | 11.9 | 11.6 | 11.2 | 10.9 | – | | | | | | | | | | 1200 | 960 | GB□H | → P. 113 |
| | | 27.0 | | | | | | 26.8 | – | | | | | | | | | | 600 | 480 | GB□M | → P. 115 |
| | | 23.0 | | | | | 21.8 | 19.5 | 17.5 | 15.7 | – | | | | | | | | 1200 | 1200 | GC□H | → P. 117 |
| | | 26.6 | 26.0 | 25.4 | 24.9 | 24.3 | 21.8 | 19.5 | 17.5 | 15.7 | – | | | | | | | | 600 | 600 | GC□M | → P. 119 |
| | 100~1300 | 45.0 | | | | 41.5 | 37.8 | 34.6 | 31.7 | 29.1 | 26.7 | 24.5 | 22.5 | 20.7 | – | | | | 1200 | 1200 | GE□H | → P. 123 |
| | | 60.0 | 55.8 | 50.3 | 45.6 | 41.5 | 37.8 | 34.6 | 31.7 | 29.1 | 26.7 | 24.5 | 22.5 | 20.7 | – | | | | 600 | 600 | GE□M | → P. 125 |
| | 100~1300 | – | | | | 34.5 | 31.1 | 28.1 | 25.3 | 22.8 | 20.4 | 18.3 | 16.3 | 14.5 | 12.7 | 11.1 | 9.5 | 8.1 | 1200 | 1200 | GG□H | → P. 129 |
| | | – | | | | 34.5 | 31.1 | 28.1 | 25.3 | 22.8 | 20.4 | 18.3 | 16.3 | 14.5 | 12.7 | 11.1 | 9.5 | 8.1 | 600 | 600 | GG□M | → P. 131 |
| | 800~2000 | 23.0 | | | | | 21.8 | 19.5 | 17.5 | 15.7 | – | | | | | | | | 1200 | 1200 | GD□H | → P. 121 |
| | 1000~2500 | 45.0 | | | | 41.5 | 37.8 | 34.6 | 31.7 | 29.1 | 26.7 | 24.5 | 22.5 | 20.7 | – | | | | 1200 | 1200 | GF□H | → P. 127 |
| | | – | | | | 34.5 | 31.1 | 28.1 | 25.3 | 22.8 | 20.4 | 18.3 | 16.3 | 14.5 | 12.7 | 11.1 | 9.5 | 8.1 | 1200 | 1200 | GH□H | → P. 133 |

## 3-axis Configuration Model Selection Tables

In the following Model Specification Tables by Type, please select the best suitable model by comparing the stroke, speed, and payload.

### Cartesian Robot XYB + Z-axis Base Mount Type

| Classification | X-axis Stroke (mm) | Y-axis Stroke (mm) | Z-axis Stroke (mm) | Payload (kg) | Maximum Speed (mm/s) | | | Model | Page |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | X-axis | Y-axis | Z-axis | | |
| B□□□B□□ XYB + Z-axis 3-axis Configuration Z-axis Base Mount  | 100~900 | 100~400 | 100~300 | 3.5 | 480 | 480 | 960 | BA□MB1H | → P. 135 |
| | | | | 7~3.6 | | | 480 | BA□MB1M | |
| | | | | 8.9~3.6 | | | 240 | BA□MB1L | |
| | 100~1100 | | | 3.5 | 1200 | 960 | 960 | BB□HB1H | → P. 137 |
| | | | | 7~6.2 | | | 480 | BB□HB1M | |
| | | | | 7.7~6.2 | | | 240 | BB□HB1L | |
| | | | | 3.5 | 600 | 480 | 960 | BB□MB1H | → P. 139 |
| | | | | 7.0 | | | 480 | BB□MB1M | |
| | | | | 14.0 | | | 240 | BB□MB1L | |
| | | 100~500 | 100~400 | 3.5 | 1200 | 1200 | 960 | BC□HB1H | → P. 141 |
| | | | | 7.0 | | | 480 | BC□HB1M | |
| | | | | 14~11 | | | 240 | BC□HB1L | |
| | | | | 5.0 | 1200 | 1200 | 1200 | BC□HB2H | → P. 143 |
| | | | | 10~5.4 | | | 600 | BC□HB2M | |
| | | | | 13.1~5.4 | | | 300 | BC□HB2L | |
| | | | | 10~4.9 | 1200 | 1200 | 1200 | BC□HB3H | → P. 145 |
| | | | | 12.6~4.9 | | | 600 | BC□HB3M | |
| | | | | 5.0 | 600 | 600 | 1200 | BC□MB2H | → P. 147 |
| | | | | 10~5.4 | | | 600 | BC□MB2M | |
| | | | | 19~5.4 | | | 300 | BC□MB2L | |
| | | | | 10~4.9 | 600 | 600 | 1200 | BC□MB3H | → P. 149 |
| | | | | 18.5~4.9 | | | 600 | BC□MB3M | |
| | 800~2000 | | | 3.5 | 1200 | 1200 | 960 | BD□HB1H | → P. 151 |
| | | | | 7.0 | | | 480 | BD□HB1M | |
| | | | | 14~11 | | | 240 | BD□HB1L | |
| | | | | 5.0 | 1200 | 1200 | 1200 | BD□HB2H | → P. 153 |
| | | | | 10~5.4 | | | 600 | BD□HB2M | |
| | | | | 13.1~5.4 | | | 300 | BD□HB2L | |
| | | | | 10~4.9 | 1200 | 1200 | 1200 | BD□HB3H | → P. 155 |
| | | | | 12.6~4.9 | | | 600 | BD□HB3M | |
| | 100~1300 | 100~700 | 100~500 | 3.5 | 1200 | 1200 | 960 | BE□HB1H | → P. 157 |
| | | | | 7.0 | | | 480 | BE□HB1M | |
| | | | | 14.0 | | | 240 | BE□HB1L | |
| | | | | 5.0 | 1200 | 1200 | 960 | BE□HB2H | → P. 159 |
| | | | | 10~7.2 | | | 480 | BE□HB2M | |
| | | | | 20~7.2 | | | 240 | BE□HB2L | |
| | | | | 10~6.6 | 1200 | 1200 | 1200 | BE□HB3H | → P. 161 |
| | | | | 20~6.6 | | | 600 | BE□HB3M | |
| | 1000~2500 | | | 3.5 | 1200 | 1200 | 960 | BF□HB1H | → P. 163 |
| | | | | 7.0 | | | 480 | BF□HB1M | |
| | | | | 14.0 | | | 240 | BF□HB1L | |
| | | | | 5 | 1200 | 1200 | 1200 | BF□HB2H | → P. 165 |
| | | | | 10~7.2 | | | 600 | BF□HB2M | |
| | | | | 20~7.2 | | | 300 | BF□HB2L | |
| | | | | 10~6.6 | 1200 | 1200 | 1200 | BF□HB3H | → P. 167 |
| | | | | 20~6.6 | | | 600 | BF□HB3M | |
| | 100~1300 | | | 10.0 | 2400 | 2400 | 1200 | BK□HB3H | → P. 169 |
| | | | | 20~13.6 | | | 600 | BK□HB3M | |
| | | | | 20~8.6 | 2400 | 2400 | 1200 | BK□HB4H | → P. 171 |
| | | | | 20~17.5 | 1200 | 1200 | 600 | BK□MB3M | → P. 173 |
| | | | | 36.4~11.6 | 1200 | 1200 | 600 | BK□MB4M | → P. 175 |
| | 900~2500 | | | 10.0 | 2400 | 2400 | 1200 | BL□HB3H | → P. 177 |
| | | | | 20~13.6 | | | 600 | BL□HB3M | |
| | | | | 20~8.6 | 2400 | 2400 | 1200 | BL□HB4H | → P. 179 |
| | | | | 20~17.5 | 1200 | 1200 | 600 | BL□MB3M | → P. 181 |
| | | | | 36.4~11.6 | 1200 | 1200 | 600 | BL□MB4M | → P. 183 |
| | 100~1500 | | | 20~6.0 | 2500 | 2400 | 1200 | BM□HB4H | → P. 185 |
| | | | | 33.1~6.0 | 1250 | 1200 | 600 | BM□MB4M | → P. 187 |

## Cartesian Robot XYB + Z-axis Slider Mount Type

| Classification | X-axis Stroke (mm) | Y-axis Stroke (mm) | Z-axis Stroke (mm) | Payload (kg) | Maximum Speed (mm/s) | | | Model | Page |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | X-axis | Y-axis | Z-axis | | |
| **B□□□S□□** [XYB + Z-axis 3-axis Configuration Z-axis Slider Mount]  | 100~900 | 100~400 | 100~300 | 4.3~2.8 | 480 | 480 | 480 | BA□MS1M | → P. 189 |
| | | | | 11.3~4.0 | | | 240 | BA□MS1L | |
| | 100~1000 | | | 4.3~2.8 | 1200 | 960 | 480 | BB□HS1M | → P. 191 |
| | | | | 8.1~6.6 | | | 240 | BB□HS1L | |
| | | | | 4.3~2.8 | 600 | 480 | 480 | BB□MS1M | → P. 193 |
| | | | | 11.3~9.8 | | | 240 | BB□MS1L | |
| | | 100~500 | 100~400 | 4.3~2.1 | 1200 | 1200 | 480 | BC□HS1M | → P. 195 |
| | | | | 11.3~9.1 | | | 240 | BC□HS1L | |
| | | | | 13.2~5.5 | 1200 | 1200 | 600 | BC□HS3M | → P. 197 |
| | | | | 14.3~5.5 | 600 | 600 | 600 | BC□MS3M | → P. 199 |
| | 800~2000 | | | 4.3~2.1 | 1200 | 1200 | 480 | BD□HS1M | → P. 201 |
| | | | | 11.3~9.1 | | | 240 | BD□HS1L | |
| | | | | 13.2~5.5 | 1200 | 1200 | 600 | BD□HS3M | → P. 203 |
| | 100~1000 | 100~700 | | 4.3~2.1 | 1200 | 1200 | 480 | BE□HS1M | → P. 205 |
| | | | | 11.3~9.1 | | | 240 | BE□HS1L | |
| | | | | 14.3~8.5 | 1200 | 1200 | 600 | BE□HS3M | → P. 207 |
| | 1000~2500 | | | 4.3~2.1 | 1200 | 1200 | 480 | BF□HS1M | → P. 209 |
| | | | | 11.3~9.1 | | | 240 | BF□HS1L | |
| | | | | 14.3~8.5 | 1200 | 1200 | 600 | BF□HS3M | → P. 211 |
| | 100~1000 | | 100~500 | 12~5.0 | 2400 | 2400 | 1200 | BK□HS4H | → P. 213 |
| | | | | 25.1~9.0 | | | 600 | BK□HS4M | |
| | | | | 12~5.0 | 1200 | 1200 | 1200 | BK□MS4H | → P. 215 |
| | | | | 32~12.1 | | | 600 | BK□MS4M | |
| | 900~2500 | | | 12~5.0 | 2400 | 2400 | 1200 | BL□HS4H | → P. 217 |
| | | | | 25.1~9.0 | | | 600 | BL□HS4M | |
| | | | | 12~5.0 | 1200 | 1200 | 1200 | BL□MS4H | → P. 219 |
| | | | | 32~12.1 | | | 600 | BL□MS4M | |
| | 100~1000 | | | 12~5.0 | 2500 | 2400 | 1200 | BM□HS4H | → P. 221 |
| | | | | 32~6.5 | 1250 | 1200 | 600 | BM□MS4M | → P. 223 |

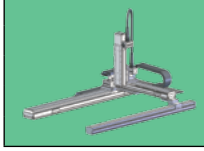
## Cartesian Robot XZ + Y-axis Slider Mount Type

| Classification | X-axis Stroke (mm) | Y-axis Stroke (mm) | Z-axis Stroke (mm) | Payload (kg) | Maximum Speed (mm/s) | | | Model | Page |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | X-axis | Y-axis | Z-axis | | |
| **Z3□□HS□□** [XZ + Y-axis 3-axis Configuration Y-axis Slider Mount]  | 120~1070 | 100~400 | 100~400 | 13~8.7 | 1200 | 600 | 960 | Z3C□HS1H | → P. 225 |
| | 120~1270 | 100~500 | 100~500 | 21.2~7.0 | 1200 | 600 | 1200 | Z3G□HS2H | → P. 227 |

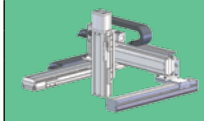
## Cartesian Robot XYG + Z-axis Base Mount Type

| Classification | X-axis Stroke (mm) | Y-axis Stroke (mm) | Z-axis Stroke (mm) | Payload (kg) | Maximum Speed (mm/s) | | | Model | Page |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | X-axis | Y-axis | Z-axis | | |
| **G□□HB□□**<br>[ XYG + Z-axis 3-axis Configuration Z-axis Base Mount ]<br>  | 1000~2500 | 500~700 | 100~600 | 3.5 | 1200 | 1200 | 960 | G1J□HB1H | → P. 229 |
| | | | | 7.0 | | | 480 | G1J□HB1M | |
| | | | | 14.0 | | | 240 | G1J□HB1L | |
| | | | | 5.0 | 1200 | 1200 | 1200 | G1J□HB2H | → P. 231 |
| | | | | 10.0 | | | 600 | G1J□HB2M | |
| | | | | 20~18.0 | | | 300 | G1J□HB2L | |
| | | | | 10.0 | 1200 | 1200 | 1200 | G1J□HB3H | → P. 233 |
| | | | | 20~18.0 | | | 600 | G1J□HB3M | |
| | | 800~1200 | 100~600 | 3.5 | 1200 | 1200 | 960 | G2J□HB1H | → P. 235 |
| | | | | 7.0 | | | 480 | G2J□HB1M | |
| | | | | 14.0 | | | 240 | G2J□HB1L | |
| | | | | 5.0 | 1200 | 1200 | 1200 | G2J□HB2H | → P. 237 |
| | | | | 10.0 | | | 600 | G2J□HB2M | |
| | | | | 20~15.1 | | | 300 | G2J□HB2L | |
| | | | | 10.0 | 1200 | 1200 | 1200 | G2J□HB3H | → P. 239 |
| | | | | 20~14.5 | | | 600 | G2J□HB3M | |

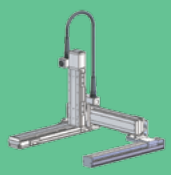
## Cartesian Robot XYG + Z-axis Slider Mount Type

| Classification | X-axis Stroke (mm) | Y-axis Stroke (mm) | Z-axis Stroke (mm) | Payload (kg) | Maximum Speed (mm/s) | | | Model | Page |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | X-axis | Y-axis | Z-axis | | |
| **G□□HS□□**<br>[ XYG + Z-axis 3-axis Configuration Z-axis Slider Mount ]<br>  | 1000~2500 | 500~700 | 100~400 | 4.3~2.1 | 1200 | 1200 | 480 | G1J□HS1M | → P. 241 |
| | | | | 11.3~9.1 | | | 240 | G1J□HS1L | |
| | | | 100~500 | 14.8~9.8 | 1200 | 1200 | 300 | G1J□HS2L | → P. 243 |
| | | | | 14.3~9.2 | 1200 | 1200 | 600 | G1J□HS3M | → P. 245 |
| | | 800~1200 | 100~400 | 4.3~2.1 | 1200 | 1200 | 480 | G2J□HS1M | → P. 247 |
| | | | | 11.3~9.1 | | | 240 | G2J□HS1L | |
| | | | 100~500 | 14.8~9.8 | 1200 | 1200 | 300 | G2J□HS2L | → P. 249 |
| | | | | 14.3~9.2 | 1200 | 1200 | 600 | G2J□HS3M | → P. 251 |

## Cartesian Robot XYBG + Z-axis Base Mount Type

| Classification | X-axis Stroke (mm) | Y-axis Stroke (mm) | Z-axis Stroke (mm) | Payload (kg) | Maximum Speed (mm/s) | | | Model | Page |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | X-axis | Y-axis | Z-axis | | |
| G□□□B□□<br>[ XYBG + Z-axis 3-axis Configuration Z-axis Base Mount ]<br>  | 100~1100 | 300~600 | 100~300 | 7~3.6 | 1200 | 960 | 480 | GB□HB1M | → P. 253 |
| | | | | 7.6~4.5 | | | 240 | GB□HB1L | |
| | | | | 7.0 | 600 | 480 | 480 | GB□MB1M | → P. 255 |
| | | | | 14.0 | | | 240 | GB□MB1L | |
| | | 300~700 | 100~400 | 7.0 | 1200 | 1200 | 480 | GC□HB1M | → P. 257 |
| | | | | 14~13.6 | | | 240 | GC□HB1L | |
| | | | | 10~8.0 | 1200 | 1200 | 600 | GC□HB2M | → P. 259 |
| | | | | 13~8.0 | | | 300 | GC□HB2L | |
| | | | | 10~7.5 | 1200 | 1200 | 1200 | GC□HB3H | → P. 261 |
| | | | | 17.6~8 | 600 | 600 | 300 | GC□MB2L | → P. 263 |
| | | | | 17.1~7.5 | 600 | 600 | 600 | GC□MB3M | → P. 265 |
| | 800~2000 | | | 7.0 | 1200 | 1200 | 480 | GD□HB1M | → P. 267 |
| | | | | 14~13.6 | | | 240 | GD□HB1L | |
| | | | | 10~8.0 | 1200 | 1200 | 600 | GD□HB2M | → P. 269 |
| | | | | 13~8.0 | | | 300 | GD□HB2L | |
| | | | | 10~7.5 | 1200 | 1200 | 1200 | GD□HB3H | → P. 271 |
| | 100~1300 | 300~900 | 100~500 | 14.0 | 1200 | 1200 | 240 | GE□HB1L | → P. 273 |
| | | | | 10.0 | 1200 | 1200 | 600 | GE□HB2M | → P. 275 |
| | | | | 20~11.8 | | | 300 | GE□HB2L | |
| | | | | 10.0 | 1200 | 1200 | 1200 | GE□HB3H | → P. 277 |
| | | | | 20~11.2 | | | 600 | GE□HB3M | |
| | | | | 31.8~11.2 | | | 300 | GE□HB3L | |
| | 1000~2500 | | | 14.0 | 1200 | 1200 | 240 | GF□HB1L | → P. 279 |
| | | | | 10 | 1200 | 1200 | 600 | GF□HB2M | → P. 281 |
| | | | | 20~11.8 | | | 300 | GF□HB2L | |
| | | | | 10.0 | 1200 | 1200 | 1200 | GF□HB3H | → P. 283 |
| | | | | 20~11.2 | | | 600 | GF□HB3M | |
| | | | | 31.8~11.2 | | | 300 | GF□HB3L | |

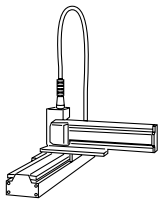
## Cartesian Robot XYBG + Z-axis Slider Mount Type

| Classification | X-axis Stroke (mm) | Y-axis Stroke (mm) | Z-axis Stroke (mm) | Payload (kg) | Maximum Speed (mm/s) | | | Model | Page |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | X-axis | Y-axis | Z-axis | | |
| G□□□S□□<br>[ XYBG + Z-axis 3-axis Configuration Z-axis Slider Mount ]<br>  | 100~1000 | 300~600 | 100~300 | 4.3~2.8 | 1200 | 960 | 480 | GB□HS1M | → P. 285 |
| | | | | 8~4.8 | | | 240 | GB□HS1L | |
| | | | | 4.3~2.8 | 600 | 480 | 480 | GB□MS1M | → P. 287 |
| | | | | 11.3~9.8 | | | 240 | GB□MS1L | |
| | | 300~700 | 100~400 | 4.3~2.1 | 1200 | 1200 | 480 | GC□HS1M | → P. 289 |
| | | | | 11.3~9.1 | | | 240 | GC□HS1L | |
| | | | | 13.1.~8.1 | 1200 | 1200 | 600 | GC□HS3M | → P. 291 |
| | | | | 4.3~2.1 | 600 | 600 | 480 | GC□MS1M | → P. 293 |
| | | | | 11.3~9.1 | | | 240 | GC□MS1L | |
| | | | | 14.3~8.1 | 600 | 600 | 600 | GC□MS3M | → P. 295 |
| | 800~2000 | | | 4.3~2.1 | 1200 | 1200 | 480 | GD□HS1M | → P. 297 |
| | | | | 11.3~9.1 | | | 240 | GD□HS1L | |
| | | | | 13.1~8.1 | 1200 | 1200 | 600 | GD□HS3M | → P. 299 |
| | 100~1000 | 300~900 | | 4.3~2.1 | 1200 | 1200 | 480 | GE□HS1M | → P. 301 |
| | | | | 11.3~9.1 | | | 240 | GE□HS1L | |
| | | | | 14.3~10.5 | 1200 | 1200 | 600 | GE□HS3M | → P. 303 |
| | | | | 32.9~13.1 | | | 300 | GE□HS3L | |
| | | | | 4.3~2.1 | 600 | 600 | 480 | GE□MS1M | → P. 305 |
| | | | | 11.3~9.1 | | | 240 | GE□MS1L | |
| | | | | 34.3~13.1 | 600 | 600 | 300 | GE□MS3L | → P. 307 |
| | 1000~2500 | | | 4.3~2.1 | 1200 | 1200 | 480 | GF□HS1M | → P. 309 |
| | | | | 11.3~9.1 | | | 240 | GF□HS1L | |
| | | | | 14.3~10.5 | 1200 | 1200 | 600 | GF□HS3M | → P. 311 |
| | | | | 32.9~13.1 | | | 300 | GF□HS3L | |

# Cartesian Robot Cable Wiring

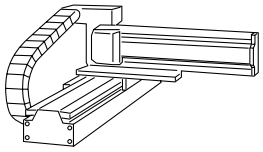
## Methods of Wiring and Characteristics

There are two methods of cable wiring options available to connect the second and third axes of the Cartesian Robot using motor/encoder cables. Please select the type which is suitable for the particular use.



### Self-standing Cable
### Model: SC

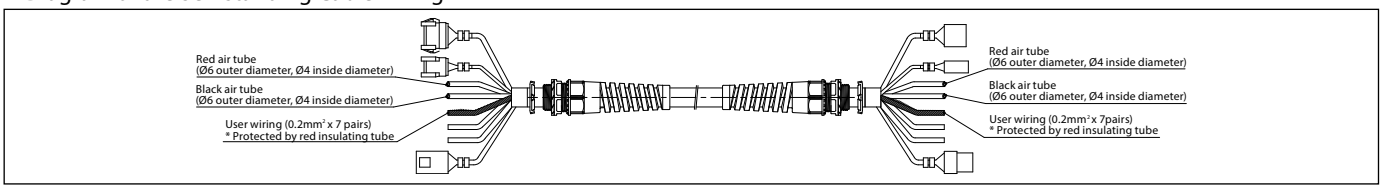
- The flex radius is large so that it does not easily disconnect.
- Hight space is required.
- Provides user wiring and tubing inside the composite cable.



### Cable Track
### Model: CT□

- Height is kept low and does not require space.
- Wiring for devices mounted on the Y-axis and Z-axis can be contained inside the cable track.

## ■Diagram of the Self-standing Cable Wiring



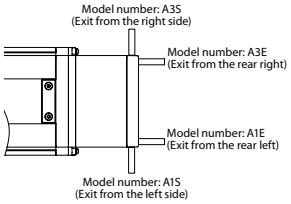

## Wiring Details by Type of Configuration

Cartesian robot configured axis cable exit direction and installation direction of sensor differs depending on the type of configuration and the configuration direction. Please see the following tables for details.
Cable exit direction of the first axis can be changed as an option. (YZS/YZB are excluded)

Explanation of Symbols in the Tables

| | |
|---|---|
| A1E | Actuator cable exit direction from the rear left |
| A3E | Actuator cable exit direction from the rear right |
| A1S | Actuator cable exit direction from the left side |
| A3S | Actuator cable exit direction from the right side |
| C/L | Creep sensor/limit switch mounting direction on the right side of the main body (standard) |
| CL/LL | Creep sensor/limit switch mounting direction on the left side of the main body (symmetrically opposite) |
| SC | Self-standing cable |
| CT | Cable track |

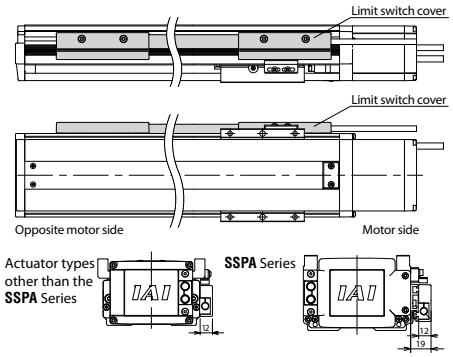
## ■Cable Exit Direction




## ■2-axis Configurations

| Type | Configuration Direction | First Axis | | Second Axis | | Wiring on Second Axis |
|---|---|---|---|---|---|---|
| | | Cable Exit Direction | Limit Switch | Cable Exit Direction | Limit Switch | |
| XYB<br>XYBG | 1 | A3S | CL/LL | A1S | C/L | SC<br>CT |
| | 2 | A1S | C/L | A3S | CL/LL | |
| | 3 | A3S | CL/LL | A3S | CL/LL | |
| | 4 | A1S | C/L | A1S | C/L | |
| XYS | 1 | A3S | CL/LL | A3S | C/L | SC |
| | 2 | A1S | C/L | A1S | CL/LL | |
| | 3 | A3S | CL/LL | A1S | CL/LL | |
| | 4 | A1S | C/L | A3S | C/L | |
| XZ | 1 | A3S | CL/LL | A3S | CL/LL | CT |
| | 2 | A1S | C/L | A1S | C/L | |
| | 3 | A3S | CL/LL | A1S | C/L | |
| | 4 | A1S | C/L | A3S | CL/LL | |
| | 5 | A3S | CL/LL | A1S | C/L | |
| | 6 | A1S | C/L | A3S | CL/LL | |
| YZS | 1 | A1E | C/L | A3E | CL/LL | SC |
| | 2 | A3E | CL/LL | A1E | C/L | |
| YZB | 1 | A1E | C/L | A3S | CL/LL | CT |
| | | | | A1E | C/L | SC |
| | 2 | A3E | CL/LL | A1S | C/L | CT |
| | | | | A3E | CL/LL | SC |
| XYG | 1 | A3S | CL/LL | A3E | C/L | CT |
| | 2 | A1S | C/L | A1E | CL/LL | |

## ■Limit Switch Position




## ■3-axis Configurations

| Type | Configuration Direction | First Axis | | Second Axis | | Third Axis | | Wiring on Second Axis |
|---|---|---|---|---|---|---|---|---|
| | | Cable Exit Direction | Limit Switch | Cable Exit Direction | Limit Switch | Cable Exit Direction | Limit Switch | |
| XYB<br>+<br>Z-axis Base Mount | 1 | A3S | CL/LL | A1S | C/L | A3S | CL/LL | CT |
| | | | | | | A3E | | SC |
| | 2 | A1S | C/L | A3S | CL/LL | A1S | C/L | CT |
| | | | | | | A1E | | SC |
| | 3 | A3S | CL/LL | A3S | CL/LL | A1S | C/L | CT |
| | | | | | | A1E | | SC |
| | 4 | A1S | C/L | A1S | C/L | A3S | CL/LL | CT |
| | | | | | | A3E | | SC |
| XYB<br>+<br>Z-axis Slider Mount | 1 | A3S | CL/LL | A1S | C/L | A1E | C/L | SC |
| | 2 | A1S | C/L | A3S | CL/LL | A3E | CL/LL | |
| | 3 | A3S | CL/LL | A3S | CL/LL | A3E | CL/LL | |
| | 4 | A1S | C/L | A1S | C/L | A1E | C/L | |
| XZ + Y-axis Slider Mount | 1 | A3S | CL/LL | A3E | CL/LL | A3S | C/L | SC |
| | 2 | A1S | C/L | A1E | C/L | A1S | CL/LL | |
| XYG + Z-axis Base Mount | 1 | A3S | CL/LL | A3E | C/L | A1S | C/L | CT |
| | 2 | A1S | C/L | A1E | CL/LL | A3S | CL/LL | |
| XYG + Z-axis Slider Mount | 1 | A3S | CL/LL | A3E | C/L | A3E | CL/LL | SC |
| | 2 | A1S | C/L | A1E | CL/LL | A1E | C/L | |
| XYBG<br>+<br>Z-axis Base Mount | 1 | A3S | CL/LL | A1S | C/L | A3S | CL/LL | CT |
| | | | | | | A3E | | SC |
| | 2 | A1S | C/L | A3S | CL/LL | A1S | C/L | CT |
| | | | | | | A1E | | SC |
| | 3 | A3S | CL/LL | A3S | CL/LL | A1S | C/L | CT |
| | | | | | | A1E | | SC |
| | 4 | A1S | C/L | A1S | C/L | A3S | CL/LL | CT |
| | | | | | | A3E | | SC |
| XYBG<br>+<br>Z-axis Slider Mount | 1 | A3S | CL/LL | A1S | C/L | A1E | C/L | SC |
| | 2 | A1S | C/L | A3S | CL/LL | A3E | CL/LL | |
| | 3 | A3S | CL/LL | A3S | CL/LL | A3E | CL/LL | |
| | 4 | A1S | C/L | A1S | C/L | A1E | C/L | |

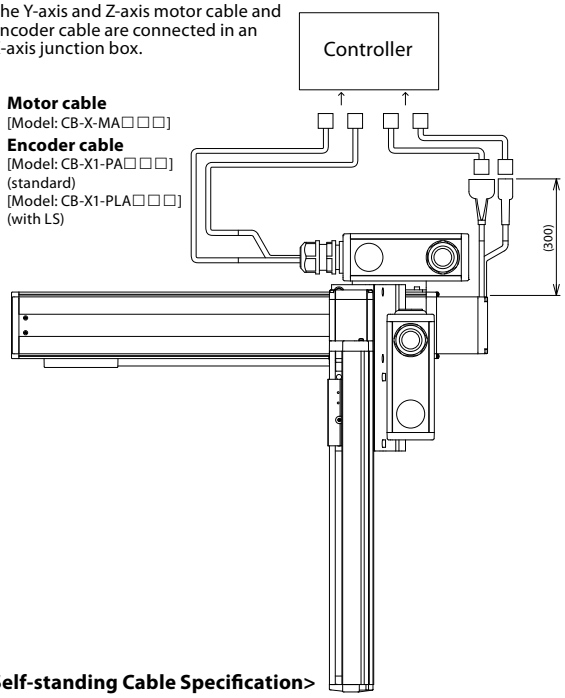
# Cartesian Robot Cable Wiring

## Cables Between the Cartesian Robot and the Controller

Each axis of the Cartesian Robot can be connected using motor and encoder single axis robot cables to the controller.

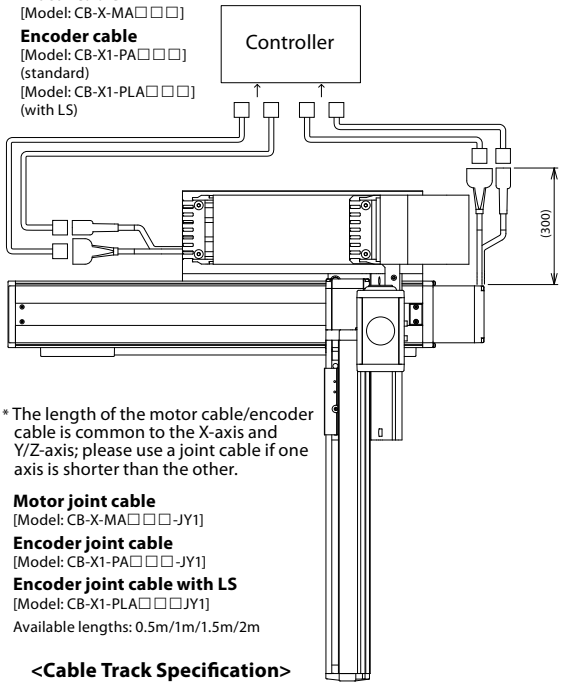
The Y-axis and Z-axis motor cable and encoder cable are connected in an X-axis junction box.

**Motor cable**
[Model: CB-X-MA□□□]
**Encoder cable**
[Model: CB-X1-PA□□□]
(standard)
[Model: CB-X1-PLA□□□]
(with LS)




**<Self-standing Cable Specification>**

**Motor cable**
[Model: CB-X-MA□□□]
**Encoder cable**
[Model: CB-X1-PA□□□]
(standard)
[Model: CB-X1-PLA□□□]
(with LS)




* The length of the motor cable/encoder cable is common to the X-axis and Y/Z-axis; please use a joint cable if one axis is shorter than the other.

**Motor joint cable**
[Model: CB-X-MA□□□-JY1]
**Encoder joint cable**
[Model: CB-X1-PA□□□-JY1]
**Encoder joint cable with LS**
[Model: CB-X1-PLA□□□JY1]
Available lengths: 0.5m/1m/1.5m/2m

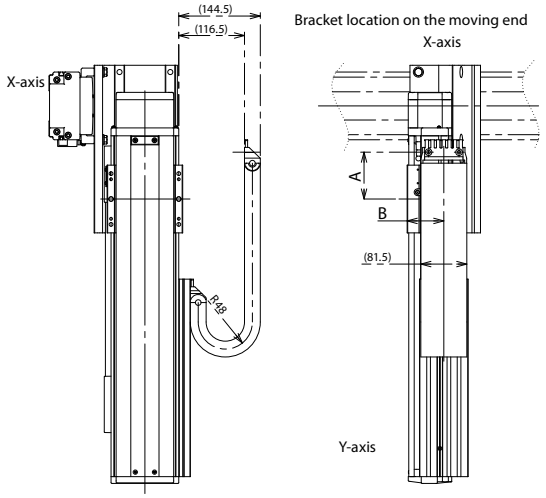
**<Cable Track Specification>**

## Details of Wiring by Type of Configuration

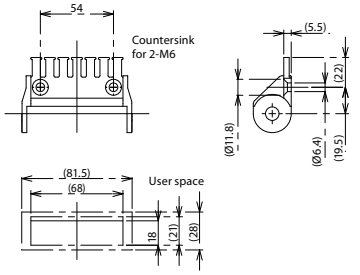
Cable track option for wiring of the customer provided device is available for the Y-axis slider of the XYB, XYBG, and XYG types.

■Y-axis Base Side Mounted

Configuration Type: XYB, XYBG



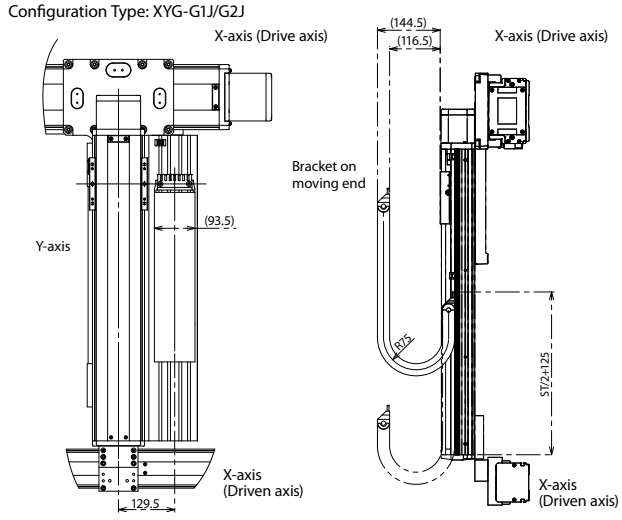

Detailed diagram of bracket on moving end, and sectional view of cable track



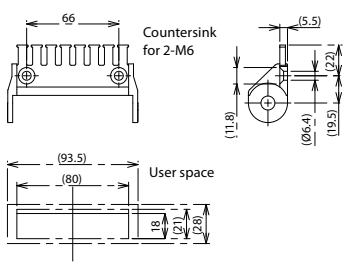

| Configuration Type | A Dimensions | B Dimensions |
|---|---|---|
| BA□□/BB□□ | 73 | 54 |
| BC□□/BD□□/ BE□□/BF□□ | 83 | 65 |
| BG□□/BH□□/ BK□□/BL□□/BM□□ | 83 | 80 |
| GB□□ | 73 | 54 |
| GC□□/GD□□/ GE□□/GF□□ | 83 | 65 |
| GG□□/GH□□ | 83 | 80 |

■Y-axis Flat Base Mounted

Configuration Type: XYG-G1J/G2J



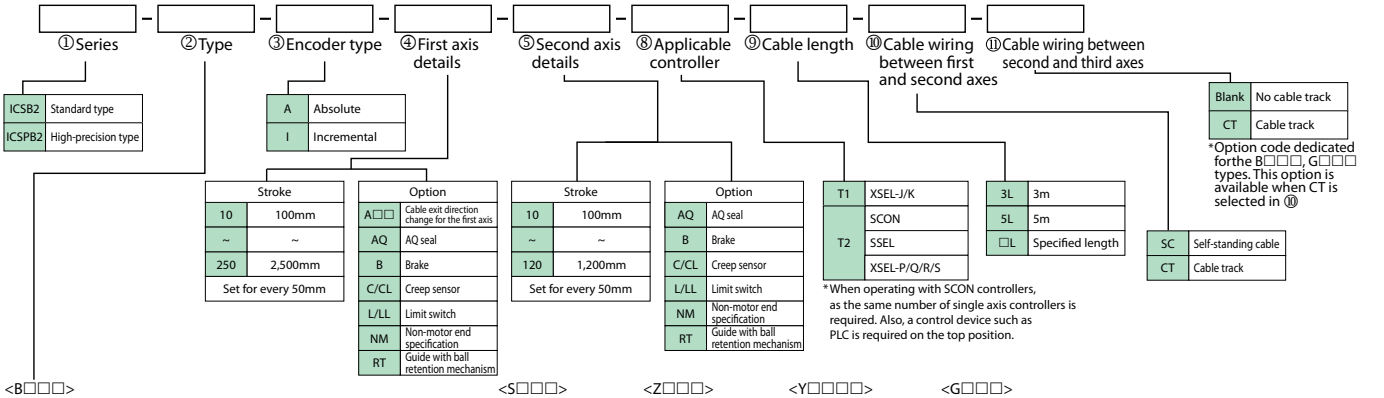

Detailed diagram of the bracket on moving end, and sectional view of cable track



# Model Specification Items

The ICSB2, ICSPB2, ICSB3 and ICSPB3 models are made up of the following items.
The selected range for each item (stroke, cable wiring, and the like) differs depending on each model.
For details, please refer to each model specification page starting from page 017.

## [ICSB2/ICSPB2 Series]

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| | | | | | |
|---|---|---|---|---|---|
| BA□H | XYB (S + S) High-speed | BE□S | XYB (L + M) Super-high-speed | BK□H | XYB (SL + L) High-speed |
| BA□M | XYB (S + S) Medium-speed | BE□H | XYB (L + M) High-speed | BK□M | XYB (SL + L) Medium-speed |
| BB□H | XYB (M + S) High-speed | BE□M | XYB (L + M) Medium-speed | BL□H | XYB (SL + L) High-speed long |
| BB□M | XYB (M + S) Medium-speed | BF□S | XYB (L + M) Super-high-speed long | BL□M | XYB (SL + L) Medium-speed long |
| BC□H | XYB (M + M) High-speed | BF□H | XYB (L + M) High-speed long | BM□H | XYB (HRL + L) High-speed |
| BC□M | XYB (M + M) Medium-speed | BG□S | XYB (L + L) Super-high-speed | BM□M | XYB (HRL + L) Medium-speed |
| BD□H | XYB (M + M) High-speed long | BH□S | XYB (L + L) Super-high-speed long | | |

S = Small model
M = Medium model
L = Large model
SL = Super-large model
HRL = High-rigidity large model

<S□□□>

| | |
|---|---|
| SA□H | XYS (S + S) High-speed |
| SA□M | XYS (S + S) Medium-speed |
| S1C□H | XYS (M + M) High-speed |
| S1C□M | XYS (M + M) Medium-speed |
| S2C□H | XYS (M + M) High-speed |
| SG□S | XYS (L + L) Super-high-speed |
| SG□H | XYS (L + L) High-speed |

<Z□□□>

| | |
|---|---|
| ZA□H | XZ (S + S) High-speed |
| ZA□M | XZ (S + S) Medium-speed |
| Z1C□H | XZ (M + M) High-speed |
| Z1C□M | XZ (M + M) Medium-speed |
| Z2C□H | XZ (M + M) High-speed |
| ZD□H | XZ (M + M) High-speed long |
| ZG□S | XZ (L + L) Super-high-speed |
| ZH□S | XZ (L + L) Super-high-speed long |

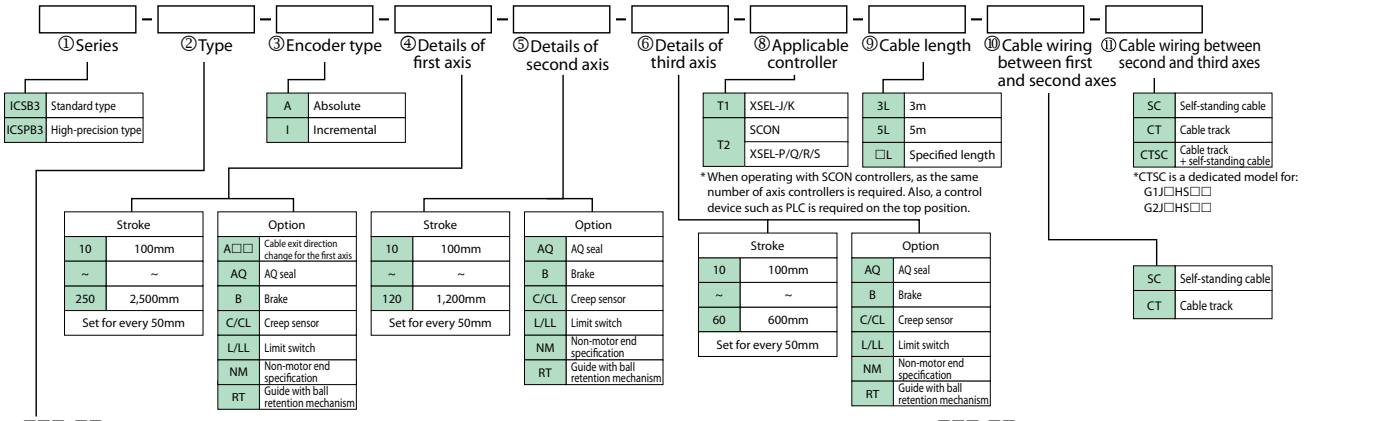
<Y□□□□>

| | |
|---|---|
| YSA□H | YZS (S + S) High-speed |
| YSA□M | YZS (S + S) Medium-speed |
| YSC□H | YZS (M + M) High-speed |
| YSC□M | YZS (M + M) Medium-speed |
| YSG□H | YZS (L + L) High-speed |
| YBA□H | YZB (S + S) High-speed |
| YBA□M | YZB (S + S) Medium-speed |
| YBC□H | YZB (M + M) High-speed |
| YBC□M | YZB (M + M) Medium-speed |
| YBG□S | YZB (L + L) Super-high-speed |
| YBG□H | YZB (L + L) High-speed |

<G□□□>

| | | | |
|---|---|---|---|
| G1J□H | XYG (L + M) High-speed Y-axis flat-mounted | GE□H | XYBG (L + M) High-speed Y-axis side-mounted |
| G2J□H | XYG (L + M) High-speed long Y-axis flat-mounted | GE□M | XYBG (L + M) Medium-speed Y-axis side-mounted |
| GB□H | XYBG (M + S) High-speed Y-axis side-mounted | GF□H | XYBG (L + M) High-speed long Y-axis side-mounted |
| GB□M | XYBG (M + S) Medium-speed Y-axis side-mounted | GG□H | XYBG (L + L) High-speed Y-axis side-mounted |
| GC□H | XYBG (M + M) High-speed Y-axis side-mounted | GG□M | XYBG (L + L) Medium-speed Y-axis side-mounted |
| GC□M | XYBG (M + M) Medium-speed Y-axis side-mounted | GH□H | XYBG (L + L) High-speed long Y-axis side-mounted |
| GD□H | XYBG (M + M) High-speed long Y-axis side-mounted | | |

## [ICSB3/ICSPB3 Series]




<B□□□B□□>

| | |
|---|---|
| BA□MB1□ | XYB (Small model + Small model) Medium-speed type + Z-axis (Small model) base mount |
| BB□HB1□ | XYB (Medium model + Small model) High-speed type + Z-axis (Small model) base mount |
| BB□MB1□ | XYB (Medium model + Small model) Medium-speed type + Z-axis (Small model) base mount |
| BC□HB1□ | XYB (Medium model + Medium model) High-speed type + Z-axis (Small model) base mount |
| BC□HB2□ | XYB (Medium model + Medium model) High-speed type + Z-axis (Medium model 100W) base mount |
| BC□HB3□ | XYB (Medium model + Medium model) High-speed type + Z-axis (Medium model 200W) base mount |
| BC□MB2□ | XYB (Medium model + Medium model) Medium-speed type + Z-axis (Medium model 100W) base mount |
| BC□MB3□ | XYB (Medium model + Medium model) Medium-speed type + Z-axis (Medium model 200W) base mount |
| BD□HB1□ | XYB (Medium model + Medium model) High-speed long type + Z-axis (Small model) base mount |
| BD□HB2□ | XYB (Medium model + Medium model) High-speed long type + Z-axis (Medium model 100W) base mount |
| BD□HB3□ | XYB (Medium model + Medium model) High-speed long type + Z-axis (Medium model 200W) base mount |
| BE□HB1□ | XYB (Large model + Medium model) High-speed type + Z-axis (Small model) base mount |
| BE□HB2□ | XYB (Large model + Medium model) High-speed type + Z-axis (Medium model 100W) base mount |
| BE□HB3□ | XYB (Large model + Medium model) High-speed type + Z-axis (Medium model 200W) base mount |
| BF□HB1□ | XYB (Large model + Medium model) High-speed long type + Z-axis (Small model) base mount |
| BF□HB2□ | XYB (Large model + Medium model) High-speed long type + Z-axis (Medium model 100W) base mount |
| BF□HB3□ | XYB (Large model + Medium model) High-speed long type + Z-axis (Medium model 200W) base mount |
| BK□HB3□ | XYB (Super-large model + Large model) High-speed type + Z-axis (medium model 200W) base mount |
| BK□HB4□ | XYB (Super-large model + Large model) High-speed type + Z-axis (Large model 400W) base mount |
| BK□MB3□ | XYB (Super-large model + Large model) Medium-speed type + Z-axis (Medium model 200W) base mount |
| BK□MB4□ | XYB (Super-large model + Large model) Medium-speed type + Z-axis (Large model 400W) base mount |
| BL□HB3□ | XYB (Super-large model + Large model) High-speed long type + Z-axis (Medium model 200W) base mount |
| BL□HB4□ | XYB (Super-large model + Large model) High-speed long type + Z-axis (Large model 400W) base mount |
| BL□MB3□ | XYB (Super-large model + Large model) Medium-speed long type + Z-axis (Medium model 200W) base mount |
| BL□MB4□ | XYB (Super-large model + Large model) Medium-speed long type + Z-axis (Large model 400W) base mount |
| BM□HB4H | XYB (High-rigidity large model + Large model) High-speed type + Z axis (Large model 400W) base mount |
| BM□MB4M | XYB (High-rigidity large model + Large model) Medium-speed type + Z-axis (Large model 400W) base mount |

<B□□□S□□>

| | |
|---|---|
| BA□MS1□ | XYB (Small model + Small model) Medium-speed type + Z-axis (Small model) slider mount |
| BB□HS1□ | XYB (Medium model + Small model) High-speed type + Z-axis (Small model) slider mount |
| BB□MS1□ | XYB (Medium model + Small model) Medium-speed type + Z-axis (Small model) slider mount |
| BC□HS1□ | XYB (Medium model + Medium model) High-speed type + Z-axis (Small model) slider mount |
| BC□HS3□ | XYB (Medium model + Medium model) High-speed type + Z-axis (Medium model 200W) slider mount |
| BC□MS3□ | XYB (Medium model + Medium model) Medium-speed type + Z-axis (Medium model 200W) slider mount |
| BD□HS1□ | XYB (Medium model + Medium model) High-speed long type + Z-axis (Small model) slider mount |
| BD□HS3□ | XYB (Medium model + Medium model) High-speed long type + Z-axis (Medium model 200W) slider mount |
| BE□HS1□ | XYB (Large model + Medium model) High-speed type + Z-axis (Small model) slider mount |
| BE□HS3□ | XYB (Large model + Medium model) High-speed type + Z-axis (Medium model 200W) slider mount |
| BF□HS1□ | XYB (Large model + Medium model) High-speed long type + Z-axis (Small model) slider mount |
| BF□HS3□ | XYB (Large model + Medium model) High-speed long type + Z-axis (Medium model 200W) slider mount |
| BK□HS4□ | XYB (Super-large model + Large model) High-speed type + Z-axis (Large model 400W) slider mount |
| BK□MS4□ | XYB (Super-large model + Large model) Medium-speed type + Z-axis (Large model 400W) slider mount |
| BL□HS4□ | XYB (Super-large model + Large model) High-speed long type + Z-axis (Large model 400W) slider mount |
| BL□MS4□ | XYB (Super-large model + Large model) Medium-speed long type + Z-axis (Large model 400W) slider mount |
| BM□HS4H | XYB (High-rigidity large model + Large model) High-speed type + Z-axis (Large model 400W) slider mount |
| BM□MS4M | XYB (High-rigidity large model + Large model) Medium-speed type + Z-axis (Large model 400W) slider mount |

## ① Series

Series names are as follows.
ICSB2 : ISB 2-axis configuration
ICSPB2 : ISPB 2-axis configuration
ICSB3 : ISB 3-axis configuration
ICSPB3 : ISPB 3-axis configuration

## ② Type

Indicates the configuration patterns, configuration directions, types of model configurations, and types of speeds.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-axis configuration | B (1) | B (2) | 1 (3) | H (4) | | 3-axis configuration | B (1) | B (2) | 1 (3) | H (4) | B (5) | 1 (6) | M (7) |

| | |
|---|---|
| (1) 1 - 2-axis configuration type (*1) | B: XYB type / S: XYS type / Z: XZ type / YS: YZS type / YB: YZB type / G: XYG type |
| (2) 1 - 2-axis configuration type | A / B / C / 1C / 2C / D / E / F / G / H / K / L / M / 1J / 2J |
| (3) 1 - 2-axis configuration direction | 1 / 2 / 3 / 4 |
| (4) 1 - 2-axis speed type | S: Super-high speed type / H: High-speed type / M: Medium speed type |
| (5) Z-axis mount type | B: Base mount / S: Slider mount |
| (6) Z-axis motor output | 1: 60W / 2: 100W / 3: 200W / 4: 400W |
| (7) Z-axis speed type | H: High-speed type / M: Medium-speed type / L: Low-speed type |

(*1) For 3 axes, B (XYB type), G (XYG type), and Z (XZ type) only

## ③ Encoder Type

Indicates whether the encoder installed in the actuator is an "absolute type" or "incremental type."

| | |
|---|---|
| A : Absolute type | Since the current slider position will be retained after the power is turned off, homing is not required when the actuator is powered up. |
| I : Incremental type | Since the slider position data are cleared when the power is turned off, homing must be performed every time the actuator is powered up. |

## ④ First Axis Details

Indicate the stroke and options of the first axis in the 2-axis and 3-axis configurations. The stroke should be entered in cm units (example: 500 mm stroke → 50). When multiple options are set, entry should be made in alphabetical order with no hyphens in between.
(Example : AQ seal + creep sensor + limit switch + non-motor end specification → AQCLNM)

## ⑤ Second Axis Details

Indicate the stroke and options of the second axis in the 2-axis and 3-axis configurations.
The same holds for others.

## ⑥ Third Axis Details

Indicate the stroke and options of the third axis in the 3-axis configuration.
The same holds for others.

## ⑧ Applicable Controller

Indicates the type of controller which is connected.

T1: XSEL-J/K
T2: XSEL-P/Q/R/S, SSEL, SCON

## ⑨ Cable Length

Indicates the length of the motor/encoder cable connecting the actuator and the controller.
As standard lengths, 3L (3m) or 5L (5m) can be selected.
Or custom length can be specified up to 20m.

## ⑩ Cable Wiring Between Axes 1-2

Indicates the method of cable wiring from the first axis to the second axis.

SC: Self-standing cable specification
CT: Cable track specification

* Depending on the model, sometimes only either SC or CT can be specified. Please refer to each model specification page for details.

## ⑪ Cable Wiring Between Axes 2-3

Indicates the method of cable wiring from the second axis to the third axis.

SC: Self-standing cable specification
CT: Cable track specification
CTSC: Cable track + self-standing cable

* As a general rule, the cable wiring between axes 2-3 is carried out using the same method as for wiring between axes 1-2.
* CTSC is restricted to G1J ☐ HS ☐☐, G2J ☐ HS ☐☐.
* Depending on the model, sometimes only either SC or CT can be specified. Please refer to each model specification page for details.

<Z3☐☐HS☐H/G☐☐☐B☐☐/G☐☐☐S☐☐>

| | | | | | |
|---|---|---|---|---|---|
| Z3C☐HS1H | XZ (Medium model + Medium model) High-speed type + Y-axis (Small model) slider mount | GB☐HB1☐ | XYBG (Medium model + Small model) High-speed type + Z-axis (Small model) base mount | GB☐HS1☐ | XYBG (Medium model + Small model) High-speed type + Z-axis (Small model) slider mount |
| Z3G☐HS2H | XZ (Large model + Large model) High-speed type + Y-axis (Medium model) slider mount | GB☐MB1☐ | XYBG (Medium model + Small model) Medium-speed type + Z-axis (Small model) base mount | GB☐MS1☐ | XYBG (Medium model + Small model) Medium-speed type + Z axis(Small model) slider mount |
| G1J☐HB1☐ | XYG (Large model + Medium model) High-speed long type + Z-axis (Small model) base mount | GC☐HB1☐ | XYBG (Medium model + Medium model) High-speed type + Z-axis (Small model) base mount | GC☐HS1☐ | XYBG (Medium model + Medium model) High-speed type + Z-axis (Small model) slider mount |
| G1J☐HB2☐ | XYG (Large model + Medium model) High-speed long type + Z-axis (Medium model 100W) base mount | GC☐HB2☐ | XYBG (Medium model + Medium model) High-speed type + Z-axis (Medium model 100W) base mount | GC☐HS3☐ | XYBG (Medium model + Medium model) High-speed type + Z-axis (Medium model 200W) slider mount |
| G1J☐HB3☐ | XYG (Large model + Medium model) High-speed long type + Z-axis (Medium model 200W) base mount | GC☐HB3☐ | XYBG (Medium model + Medium model) High-speed type + Z-axis (Medium model 200W) base mount | GC☐MS1☐ | XYBG (Medium model + Medium model) Medium-speed type + Z-axis (Small model) slider mount |
| G2J☐HB1☐ | XYG (Large model + Medium model) High-speed long type + Z-axis (Small model) base mount | GC☐MB2☐ | XYBG (Medium model + Medium model) Medium-speed type + Z-axis (Medium model 100W) base mount | GC☐MS3☐ | XYBG (Medium model + Medium model) Medium–speed type + Z-axis (Medium model 200W) slider mount |
| G2J☐HB2☐ | XYG (Large model + Medium model) High-speed long type + Z-axis (Medium model 100W) base mount | GC☐MB3☐ | XYBG (Medium model + Medium model) Medium-speed type + Z axis (Medium model 200W) base mount | GD☐HS1☐ | XYBG (Medium model + Medium model) High-speed long type + Z-axis (Small model) slider mount |
| G2J☐HB3☐ | XYG (Large model + Medium model) High-speed long type + Z-axis (Medium model 200W) base mount | GD☐HB1☐ | XYBG (Medium model + Medium model) High-speed long type + Z-axis (Small model) base mount | GD☐HS3☐ | XYBG (Medium model + Medium model) High-speed long type + Z-axis (Medium model 200W) slider mount |
| G1J☐HS1☐ | XYG (Large model + Medium model) High-speed long type + Z-axis (Small model) slider mount | GD☐HB2☐ | XYBG (Medium model + Medium model) High-speed long type + Z-axis (Medium model 100W) base mount | GE☐HS1☐ | XYBG (Large model + Medium model) High-speed type + Z-axis (Small model) slider mount |
| G1J☐HS2☐ | XYG (Large model + Medium model) High-speed long type + Z-axis (Medium model 100W) slider mount | GD☐HB3☐ | XYBG (Medium model + Medium model) High-speed long type + Z-axis (Medium model 200W) base mount | GE☐HS3☐ | XYBG (Large model + Medium model) High-speed type + Z-axis (Medium model 200W) slider mount |
| G1J☐HS3☐ | XYG (Large model + Medium model) High-speed long type + Z-axis (Medium model 200W) slider mount | GE☐HB1☐ | XYBG (Large model + Medium model) High-speed type + Z-axis (Small model) base mount | GE☐MS1☐ | XYBG (Large model + Medium model) Medium-speed type + Z-axis (Small model) slider mount |
| G2J☐HS1☐ | XYG (Large model + Medium model) High-speed long type + Z-axis (Small model) slider mount | GE☐HB2☐ | XYBG (Large model + Medium model) High-speed type + Z-axis (Medium model 100W) base mount | GE☐MS3☐ | XYBG (Large model + Medium model) Medium-speed type + Z-axis (Medium model 200W) slider mount |
| G2J☐HS2☐ | XYG (Large model + Medium model) High-speed long type + Z-axis (Medium model 100W) slider mount | GE☐HB3☐ | XYBG (Large model + Medium model) High-speed type + Z-axis (Medium model 200W) base mount | GF☐HS1☐ | XYBG (Large model + Medium model) High-speed long type + Z-axis (Small model) slider mount |
| G2J☐HS3☐ | XYG (Large model + Medium model) High-speed long type + Z-axis (Medium model 200W) slider mount | GF☐HB1☐ | XYBG (Large model + Medium model) High-speed long type + Z-axis (Small model) base mount | GF☐HS3☐ | XYBG (Large model + Medium model) High-speed long type + Z-axis (Medium model 200W) slider mount |
| | | GF☐HB2☐ | XYBG (Large model + Medium model) High-speed long type + Z-axis (Medium model 100W) base mount | | |
| | | GF☐HB3☐ | XYBG (Large model + Medium model) High-speed long type + Z-axis (Medium model 200W) base mount | | |