

Accessories (Sold separately)

Motor Cables (RoHS)

These dedicated cables are used to connect the linear slide of the **EZSII** Series, with the controller.
Use flexible cables in applications where the cables will flex repeatedly.
(Available for both the electromagnetic brake type and non-electromagnetic brake type.)



Product Line

Standard Cables (Without electromagnetic brake/with electromagnetic brake)

Length (L)	Model
1 m	CC010ES-2
2 m	CC020ES-2
3 m	CC030ES-2
5 m	CC050ES-2
7 m	CC070ES-2
10 m	CC100ES-2
15 m*	CC150ES-2
20 m*	CC200ES-2

* Keep the cable length to 10 m or below for 24 VDC linear slides.

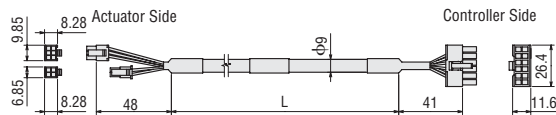
Flexible Cables (Without electromagnetic brake/with electromagnetic brake)

Length (L)	Model
1 m	CC010ESR-2
2 m	CC020ESR-2
3 m	CC030ESR-2
5 m	CC050ESR-2
7 m	CC070ESR-2
10 m	CC100ESR-2
15 m*	CC150ESR-2
20 m*	CC200ESR-2

* Keep the cable length to 10 m or below for 24 VDC linear slides.

Dimensions (Unit = mm)

CC□ES-2/CC□ESR-2



Teaching Pendant

The teaching pendant allows you to set and operate various data by hand, as well as to monitor the set data, current position and I/O status in real time.

Product Line

Model	EZT1
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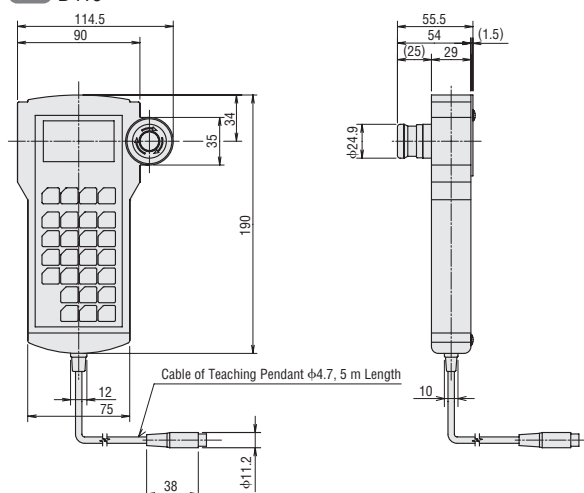


Specifications

Display	LCD with 2-colored back light
Cable Length	5 m
Mass	0.37 kg
Ambient Temperature	0~+40°C (non-freezing)

Dimensions (Unit = mm)

CAD D416



Teaching Pendant (EZT1)/Data Editing Software (EZED2) Function Comparison Table

Function	Item	
	Teaching Pendant (Model: EZT1)	Data Editing Software (Model: EZED2)
Cable Length	5 m	5 m ^{*1}
Display	LCD 17 characters × 4 lines	PC screen
Emergency Stop Button	○	×
Operation Data Setting	○	○
Parameter Setting	○	○
Teaching Function (Direct/Remote)	○	○
Operation Data Monitoring	○	○
I/O Monitoring	○	○
Waveform Monitoring	×	○
Test Operation	○	○
Data Copy	×	○
Printing Function	×	○ ^{*2}

○ : Available × : Not available

*1 PC interface cable (included) is used.

*2 The printing function is not available on computers running Windows® 98/Me.

Data Editing Software (RoHS)

With this software you can set and edit various data on a PC. It comes with a PC interface cable for connecting the controller and PC. The software also provides various monitoring functions.

Product Line

Model	EZED2
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- Ver 1.30 or later



PC Interface Cable

Cable Length	5 m
PC Connector Type	D-sub 9-pin
Communication Port	One RS-232C communication port

Specifications (Operating environment)

Item	Model: EZED2
Operating Software	Microsoft® Windows® 2000 Professional Service Pack 4 or later (hereinafter referred to as "Windows® 2000") Microsoft® Windows® XP Home Edition Service Pack 2 or later (hereinafter referred to as "Windows® XP") Microsoft® Windows® XP Professional Edition Service Pack 2 or later (hereinafter referred to as "Windows® XP") Microsoft® Windows® XP Media Center Edition 2004 Service Pack 2 or later (hereinafter referred to as "Windows® XP") Microsoft® Windows® XP Media Center Edition 2005 Service Pack 2 or later (hereinafter referred to as "Windows® XP") Microsoft® Windows® 98 Service Pack 1 or later* (hereinafter referred to as "Windows® 98") Microsoft® Windows® 98 Second Edition* (hereinafter referred to as "Windows® 98") Microsoft® Windows® Millennium Edition* (hereinafter referred to as "Windows® Me")
Memory	Windows® 2000: 128 MB or more (192 MB or more is recommended.) Windows® XP Home Edition or Professional Edition: 256 MB or more Windows® XP Media Center Edition 2004 or 2005: 320 MB or more Windows® 98: 64 MB or more (128 MB or more is recommended.) Windows® 98 Second Edition: 64 MB or more (128 MB or more is recommended.) Windows® Me: 96 MB or more (160 MB or more is recommended.)
Computer	Pentium® III 500 MHz or more (The OS must be supported.)
Display Resolution	XGA (1024×768) or higher resolution video adapter and monitor
Free Hard Disk Space	Free disk space of 60 MB or more
Serial Port	RS-232C port, 1 channel
Disk Device	CD-ROM drive

*Microsoft® Internet Explorer 5.01 or later is also required.

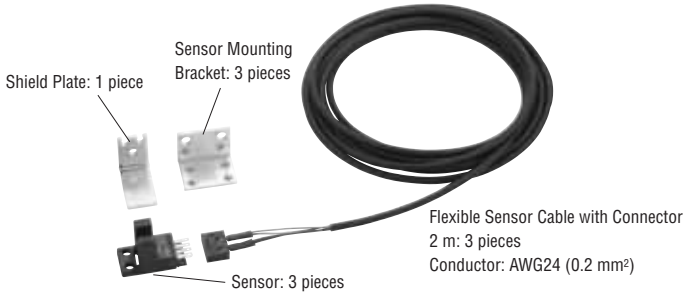
- Service Pack signifies a service pack provided by Microsoft Corporation.
- Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and other countries.
- Pentium is a trademark or registered trademark of Intel Corporation or its subsidiaries in the United States and other countries.

Sensor Set (RoHS)

The sensor set, dedicated to the **EZSII** Series, consists of three sensors, three sensor mounting brackets and three flexible sensor cables with connector (2 m), and one shield plate. The screws needed for installation are also included.

Product Line

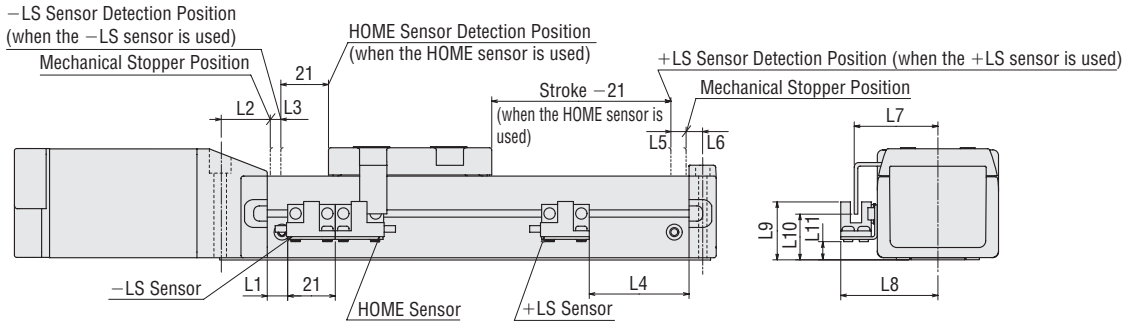
Model	PAES-S
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Specifications

Item	Model: EE-SX674A (OMRON)
Power Supply	5 to 24 VDC \pm 10%, ripple (p-p) 10% or less
Current Consumption	35 mA or less
Control Output	NPN open-collector output, 5 to 24 VDC, 100 mA or less Residual voltage 0.8 V or less (at load current of 100 mA)
Indicator LED	Detection display (red)
Sensor Logic	Normally open/normally closed (selectable, depending on connection)

Dimensions of Recommended Sensor Installation Positions (Unit = mm)



Linear Slide Size	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
EZS3	9	18	5	44	6	7.5	37.3	43.3	25.8	20.4	8.1
EZS4	9	18	5	44	6	7.5	47.3	53.3	25.8	20.4	8.1
EZS6	13.5	34	7	87.5	8	13.5	47.3	53.3	42.3	36.9	24.6

Note:

- If the stroke is 60 mm or less, all three sensors cannot be installed.

Sensor Extension Cables (RoHS)

These cables are used for connection between the controller and the sensors.

Product Line

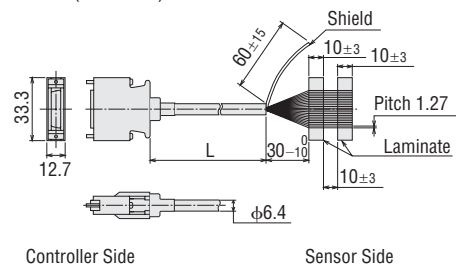
Model	Length (L)
CC20D1-1	1 m
CC20D2-1	2 m



Dimensions (Unit = mm)

CC20D□-1

Conductor: AWG28 (0.08 mm²)



I/O Cables (RoHS)

This cable is used for connection between the linear motion controller and the host controller.

A half-pitch connector allowing one-touch connection to the controller is attached at one end of the flat cable.

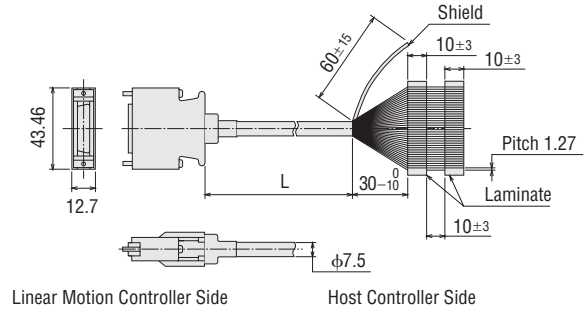
Product Line

Model	Length (L)
CC36D1-1	1 m
CC36D2-1	2 m



Dimensions (Unit = mm)

Conductor: AWG28 (0.08 mm²)



Battery Set (RoHS)

This battery set is needed to use the controller in the absolute mode.

A dedicated battery holder is included.

Product Line

Model	PAEZ-BT2H
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Specifications

Item	Model: PAEZ-BT2H
Battery Type	Cylindrical sealed nickel-cadmium storage cell
Nominal Voltage	2.4 V
Rated Capacity	2000 mAh
Mass	180 g
Life	Approx. 4 years ^{*1} *2 *3
Data Retention Period	Approx. 360 hours (Approx. 15 days) ^{*1} *4
Ambient Temperature	0~+40°C (non-freezing)
Ambient Humidity	20~85%

*1 At an ambient temperature of 20°C

*2 Calculated by assuming the following conditions of use (one-week cycle)

The battery is charged for eight hours and used for 16 hours to back up data six days in a week.

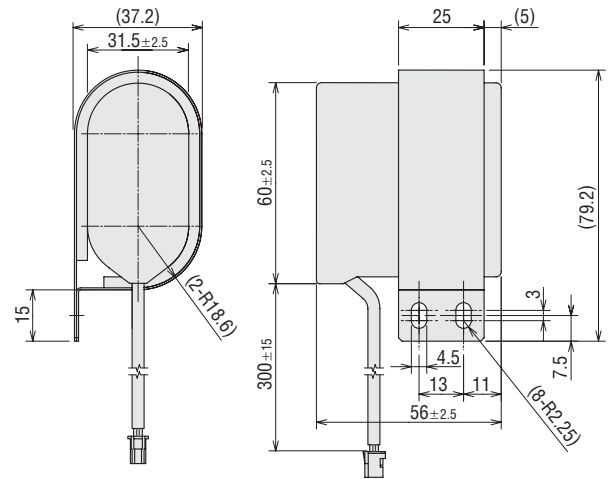
The battery is used to back up data for all 24 hours one day in a week.

*3 The battery that came with the product is not charged. Charge the battery for at least 48 hours before using it.

*4 After the power is cut off with the battery fully charged.

Dimensions (Unit = mm)

Mass: 0.18 kg **CAD** D488



EZ limo absolute mode uses Ni-Cd rechargeable batteries. Disposal of the used batteries is subject to each country's regulations on environmental control. Please contact Oriental Motor if you have any questions regarding disposal of the batteries.

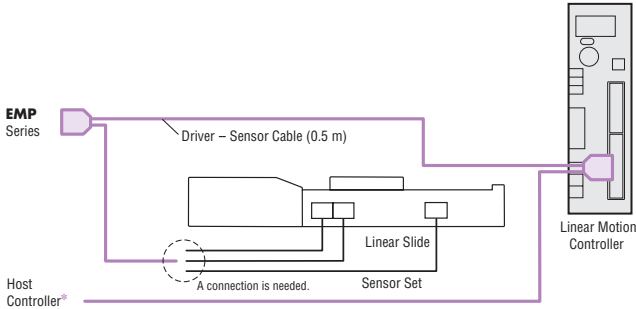
Driver — Sensor Cable

This cable is used for connecting the linear motion controller and **EMP** Series controller.

Product Line

Model	Length	Applicable EMP Series
CC005EZ6-EMPD	0.5 m	EMP400 Series

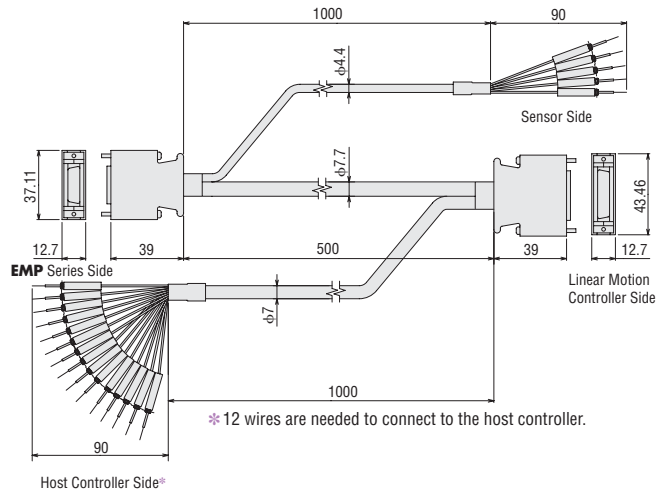
- The current position output function of the linear motion controller is not available. To use the current position output function, use the I/O cable **CC36D□-1** and implement control from the host controller.



* The following signals are connected to the host controller:

A-phase/B-phase pulse, alarm clear, motor non-excitation/electromagnetic brake release, preset, all windings off

Dimensions (Unit = mm)



DIN Rail Mounting Plate **(RoHS)**

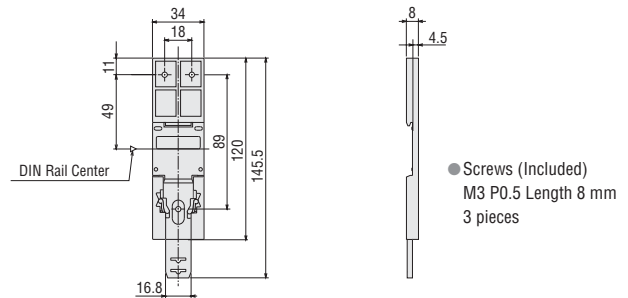
This mounting plate is convenient for installing the controller of the **EZ limo** on DIN rails easily. (Mounting screws are included.)

Product Line

Model	PADP01
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Dimensions (Unit = mm)



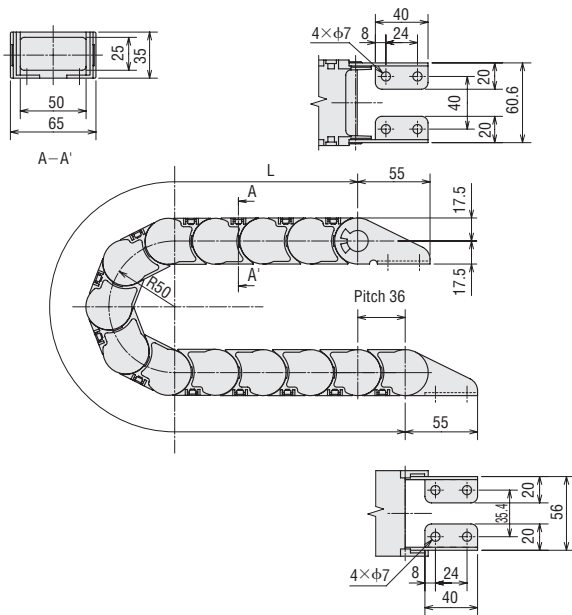
Cable Holders (RoHS)

- This cable holder protects and guides cables in dual or three axes combinations.
- It can be combined with the mounting bracket of the **EZSII** Series.

Applicable Product		Applicable Cable Holder	
Applicable Product	Stroke [mm]	Length (L) [mm]	Model
EZSII Series	50~70	396	PACH65-11
	80~120	468	PACH65-13
	130~170	504	PACH65-14
	180~220	540	PACH65-15
	230~270	612	PACH65-17
	280~320	648	PACH65-18
	330~370	720	PACH65-20
	380~420	756	PACH65-21
	430~470	792	PACH65-22
	480~520	864	PACH65-24
	530~570	900	PACH65-25
	580~620	972	PACH65-27
	630~670	1008	PACH65-28
	680~720	1044	PACH65-29
730~770	1116	PACH65-31	
780~820	1152	PACH65-32	
830~850	1224	PACH65-34	



Dimensions (Unit = mm)



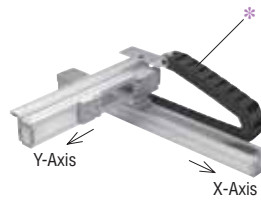
Model	L [mm]
PACH65-11	396
PACH65-13	468
PACH65-14	504
PACH65-15	540
PACH65-17	612
PACH65-18	648
PACH65-20	720
PACH65-21	756
PACH65-22	792
PACH65-24	864
PACH65-25	900
PACH65-27	972
PACH65-28	1008
PACH65-29	1044
PACH65-31	1116
PACH65-32	1152
PACH65-34	1224

Dual Axes Mounting Brackets (RoHS)

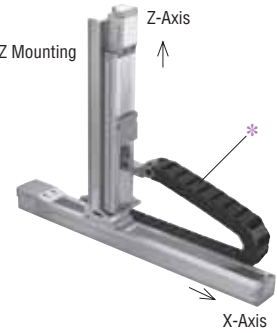
Mounting bracket for using two axes of **EZSII** Series motorized linear slides.



● X-Y Mounting



● X-Z Mounting



● Features

◇ Dual Axes Combination Can be Easily Implemented in **EZSII** Series.

Using the dedicated mounting bracket allows you to use two motorized linear slides in dual axes combination. Various combinations are available such as X-Y or X-Z.

Available Combinations

X-Y Mounting

X-Axis	Y-Axis	Transportable Mass (kg)
EZS4D	EZS3D	2.3 or less
EZS6D	EZS3D	5.7 or less
EZS6D	EZS4D	12.7 or less

X-Z Mounting

X-Axis	Z-Axis	Transportable Mass (kg)
EZS4D	EZS3D	3.5 or less
EZS6D	EZS3D	3.5 or less
EZS6D	EZS4D	6.7 or less

- The maximum length of a linear slide for the second axis (Y and Z) is 300 mm.
- This is applicable to products with 12 mm in lead. Speed is reduced by half for products with 6 mm in lead.
- Specification values are based on those when the X-axis is mounted horizontally.

● Product Number Code

PAB - S4 S3 R 005

① ② ③ ④ ⑤

①	Dual Axes Mounting Bracket	
②	First Axis Linear Slide	S4: EZS4D S6: EZS6D
③	Second Axis Linear Slide	S3: EZS3D S4: EZS4D
④	Combination Patterns	R: R-Type L: L-Type
⑤	Stroke in Second Axis	

● First axis refers to X-axis, while second axis refers to Y- or Z-axis.

● Product Line

Available in 50 mm increments

Combination of EZS4 and EZS3		Combination of EZS6 and EZS3		Combination of EZS6 and EZS4	
R-Type	L-Type	R-Type	L-Type	R-Type	L-Type
PAB-S4S3R005	PAB-S4S3L005	PAB-S6S3R005	PAB-S6S3L005	PAB-S6S4R005	PAB-S6S4L005
PAB-S4S3R010	PAB-S4S3L010	PAB-S6S3R010	PAB-S6S3L010	PAB-S6S4R010	PAB-S6S4L010
PAB-S4S3R015	PAB-S4S3L015	PAB-S6S3R015	PAB-S6S3L015	PAB-S6S4R015	PAB-S6S4L015
PAB-S4S3R020	PAB-S4S3L020	PAB-S6S3R020	PAB-S6S3L020	PAB-S6S4R020	PAB-S6S4L020
PAB-S4S3R025	PAB-S4S3L025	PAB-S6S3R025	PAB-S6S3L025	PAB-S6S4R025	PAB-S6S4L025
PAB-S4S3R030	PAB-S4S3L030	PAB-S6S3R030	PAB-S6S3L030	PAB-S6S4R030	PAB-S6S4L030

Combination Patterns

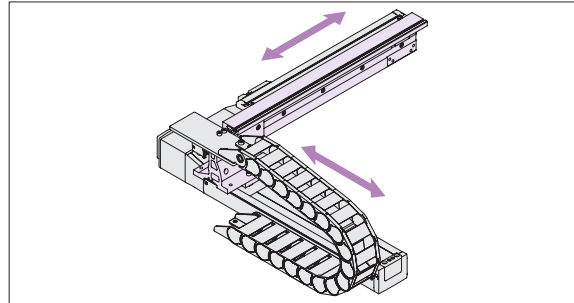
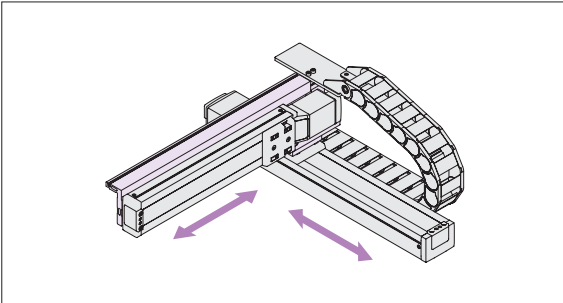
● R-Type

PAB-S4S3R

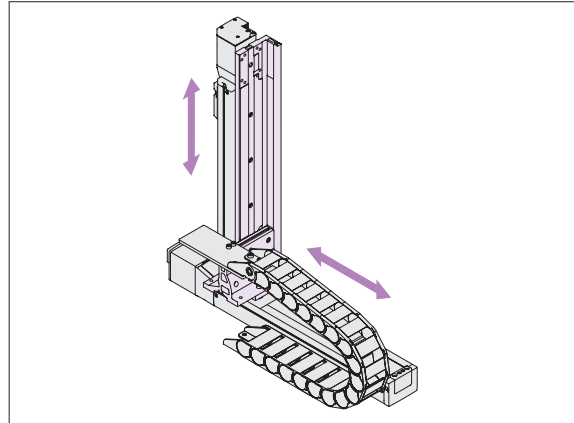
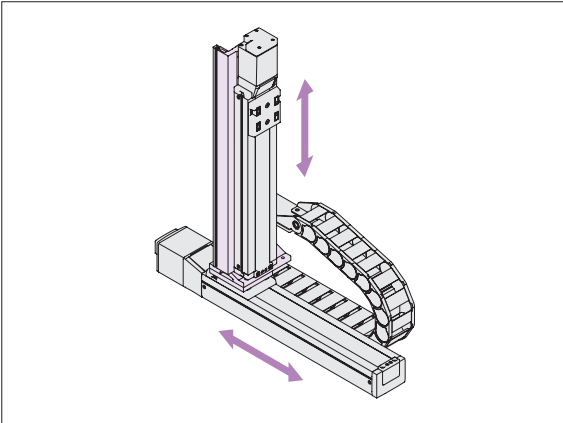
PAB-S6S3R

PAB-S6S4R

◇ X-Y



◇ X-Z



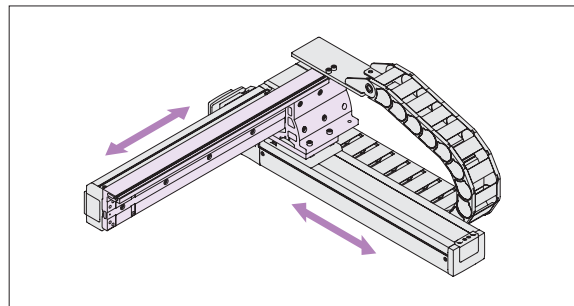
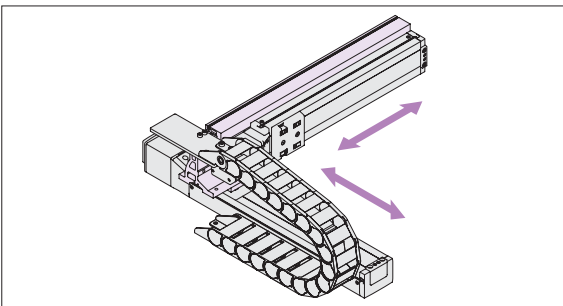
● L-Type

PAB-S4S3L

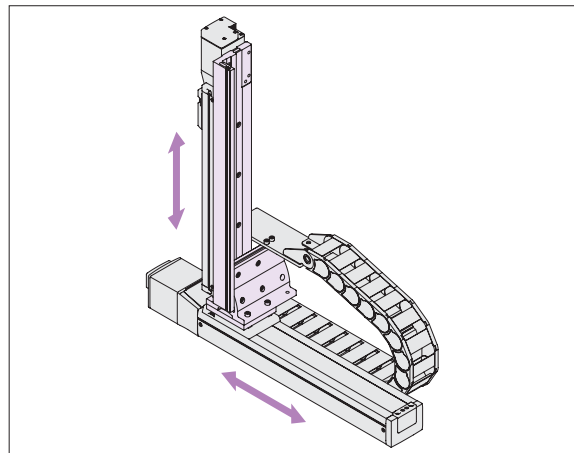
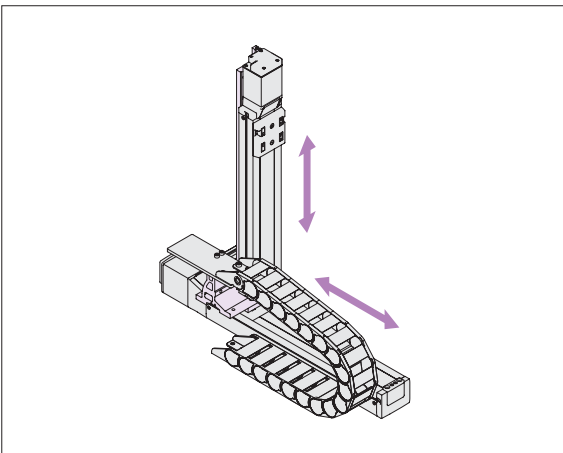
PAB-S6S3L

PAB-S6S4L

◇ X-Y



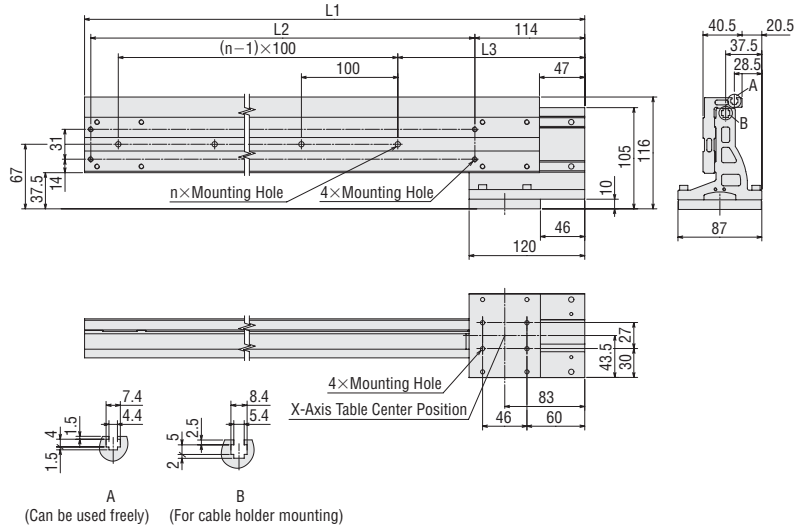
◇ X-Z



● Dimensions (Unit = mm)

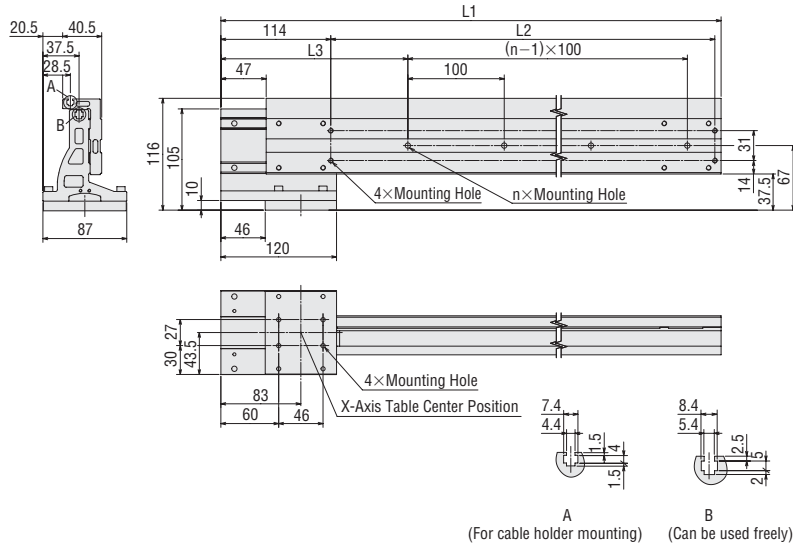
◇ X-Y (Combination of EZS4 and EZS3)

● R-Type



Model	Stroke	L1	L2	L3	n	Mass [kg]	CAD
PAB-S4S3R005	50	279	158.5	144	2	1.58	D979
PAB-S4S3R010	100	329	208.5	194	2	1.72	D980
PAB-S4S3R015	150	379	258.5	144	3	1.86	D981
PAB-S4S3R020	200	429	308.5	194	3	2.00	D982
PAB-S4S3R025	250	479	358.5	144	4	2.14	D983
PAB-S4S3R030	300	529	408.5	194	4	2.27	D984

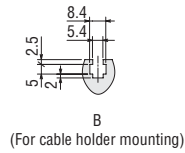
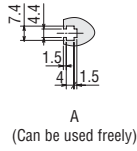
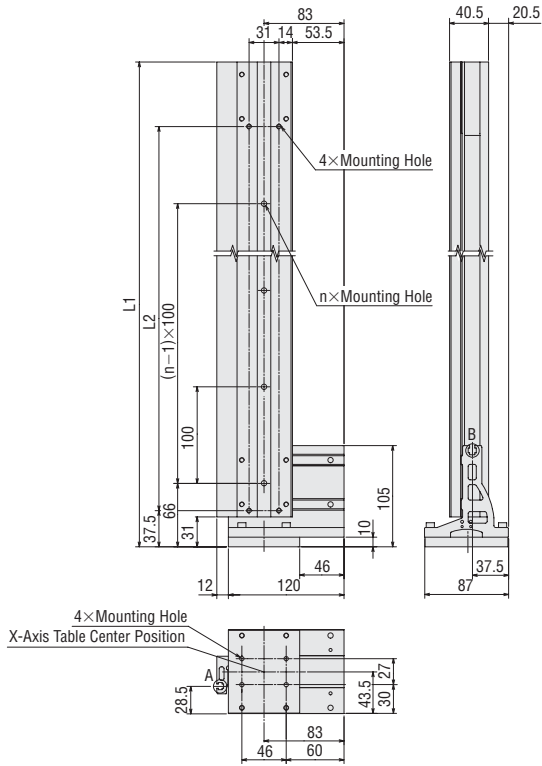
● L-Type



Model	Stroke	L1	L2	L3	n	Mass [kg]	CAD
PAB-S4S3L005	50	279	158.5	144	2	1.58	D985
PAB-S4S3L010	100	329	208.5	194	2	1.72	D986
PAB-S4S3L015	150	379	258.5	144	3	1.86	D987
PAB-S4S3L020	200	429	308.5	194	3	2.00	D988
PAB-S4S3L025	250	479	358.5	144	4	2.14	D989
PAB-S4S3L030	300	529	408.5	194	4	2.27	D990

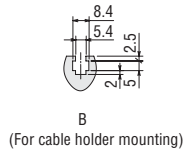
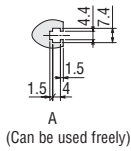
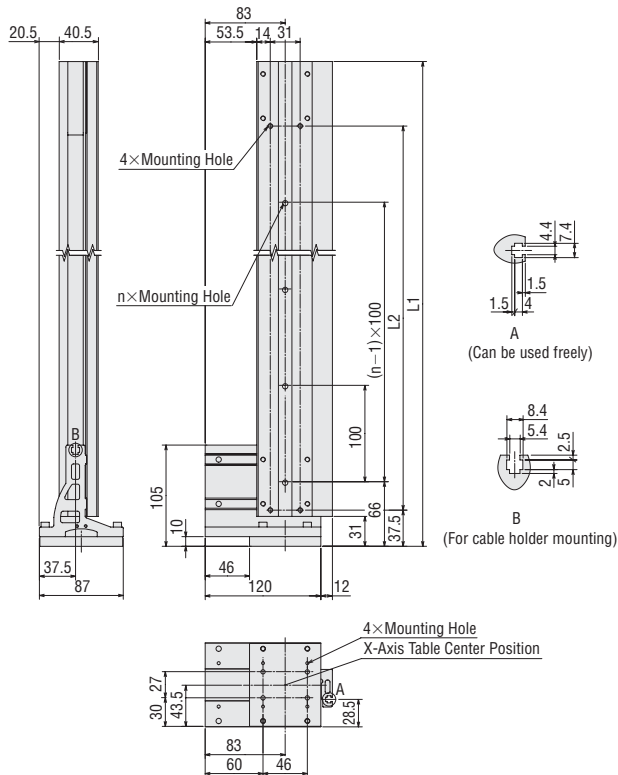
◇ X-Z (Combination of EZS4 and EZS3)

• R-Type



Model	Stroke	L1	L2	n	Mass [kg]	CAD
PAB-S4S3R005	50	263	158.5	2	1.58	D991
PAB-S4S3R010	100	313	208.5	2	1.72	D992
PAB-S4S3R015	150	363	258.5	3	1.86	D993
PAB-S4S3R020	200	413	308.5	3	2.00	D994
PAB-S4S3R025	250	463	358.5	4	2.14	D995
PAB-S4S3R030	300	513	408.5	4	2.27	D996

• L-Type

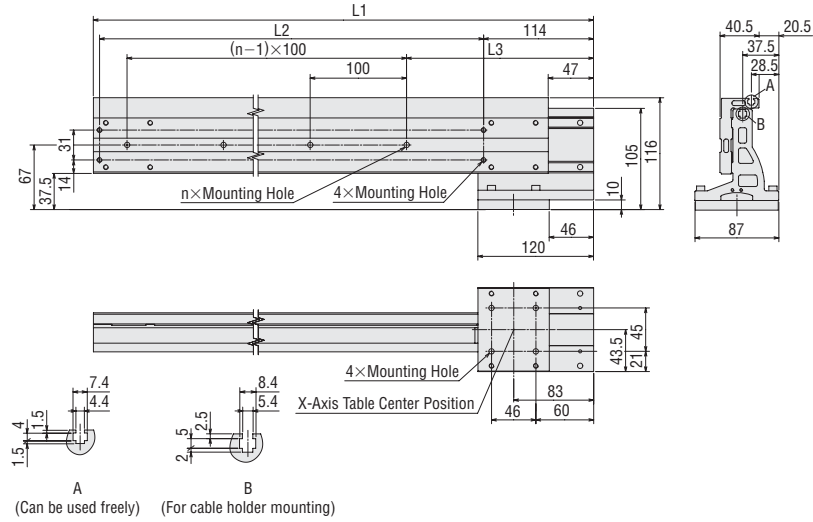


Model	Stroke	L1	L2	n	Mass [kg]	CAD
PAB-S4S3L005	50	263	158.5	2	1.58	D997
PAB-S4S3L010	100	313	208.5	2	1.72	D998
PAB-S4S3L015	150	363	258.5	3	1.86	D999
PAB-S4S3L020	200	413	308.5	3	2.00	D1000
PAB-S4S3L025	250	463	358.5	4	2.14	D1001
PAB-S4S3L030	300	513	408.5	4	2.27	D1002

● Dimensions (Unit = mm)

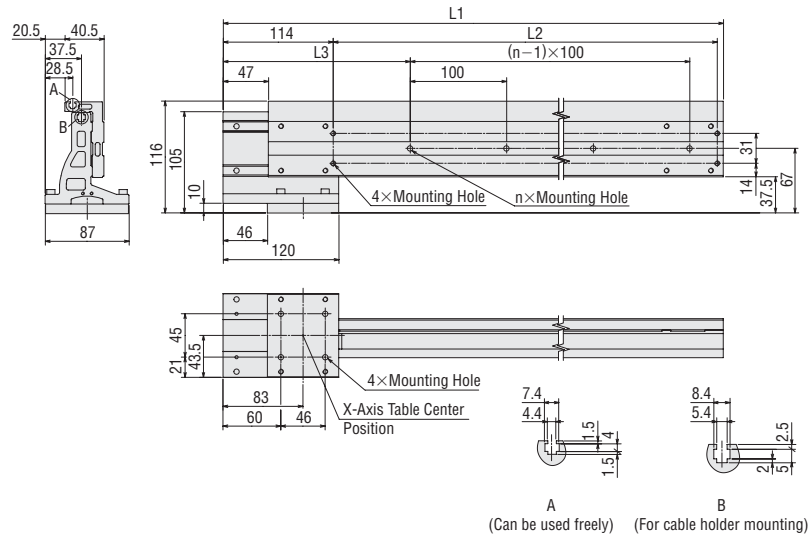
◇ X-Y (Combination of EZS6 and EZS3)

● R-Type



Model	Stroke	L1	L2	L3	n	Mass [kg]	CAD
PAB-S6S3R005	50	279	158.5	144	2	1.58	D1003
PAB-S6S3R010	100	329	208.5	194	2	1.72	D1004
PAB-S6S3R015	150	379	258.5	144	3	1.86	D1005
PAB-S6S3R020	200	429	308.5	194	3	2.00	D1006
PAB-S6S3R025	250	479	358.5	144	4	2.14	D1007
PAB-S6S3R030	300	529	408.5	194	4	2.27	D1008

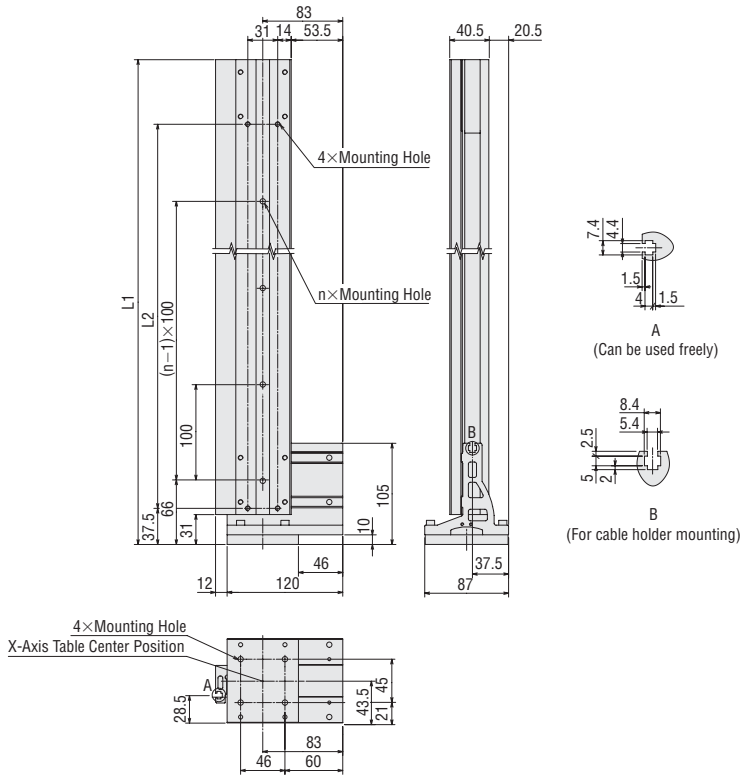
● L-Type



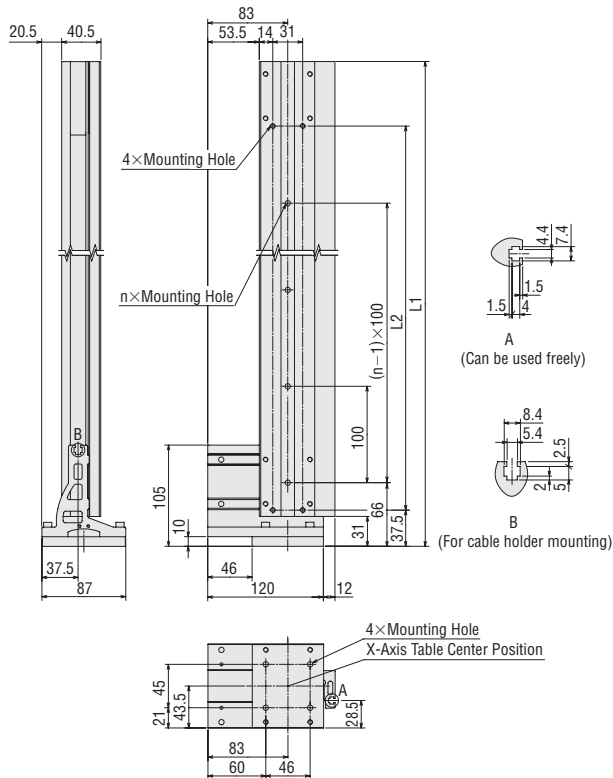
Model	Stroke	L1	L2	L3	n	Mass [kg]	CAD
PAB-S6S3L005	50	279	158.5	144	2	1.58	D1009
PAB-S6S3L010	100	329	208.5	194	2	1.72	D1010
PAB-S6S3L015	150	379	258.5	144	3	1.86	D1011
PAB-S6S3L020	200	429	308.5	194	3	2.00	D1012
PAB-S6S3L025	250	479	358.5	144	4	2.14	D1013
PAB-S6S3L030	300	529	408.5	194	4	2.27	D1014

◇ X-Z (Combination of EZS6 and EZS3)

• R-Type



• L-Type



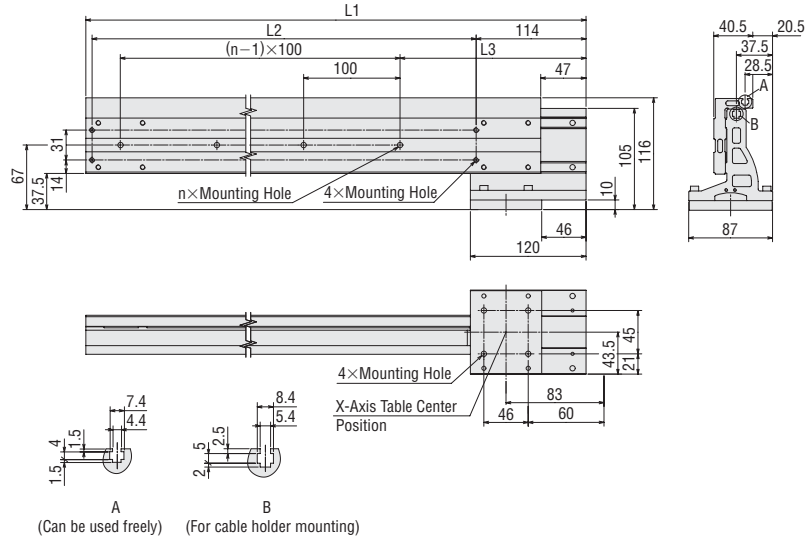
Model	Stroke	L1	L2	n	Mass [kg]	CAD
PAB-S6S3R005	50	263	158.5	2	1.58	D1015
PAB-S6S3R010	100	313	208.5	2	1.72	D1016
PAB-S6S3R015	150	363	258.5	3	1.86	D1017
PAB-S6S3R020	200	413	308.5	3	2.00	D1018
PAB-S6S3R025	250	463	358.5	4	2.14	D1019
PAB-S6S3R030	300	513	408.5	4	2.27	D1020

Model	Stroke	L1	L2	n	Mass [kg]	CAD
PAB-S6S3L005	50	263	158.5	2	1.58	D1021
PAB-S6S3L010	100	313	208.5	2	1.72	D1022
PAB-S6S3L015	150	363	258.5	3	1.86	D1023
PAB-S6S3L020	200	413	308.5	3	2.00	D1024
PAB-S6S3L025	250	463	358.5	4	2.14	D1025
PAB-S6S3L030	300	513	408.5	4	2.27	D1026

● Dimensions (Unit = mm)

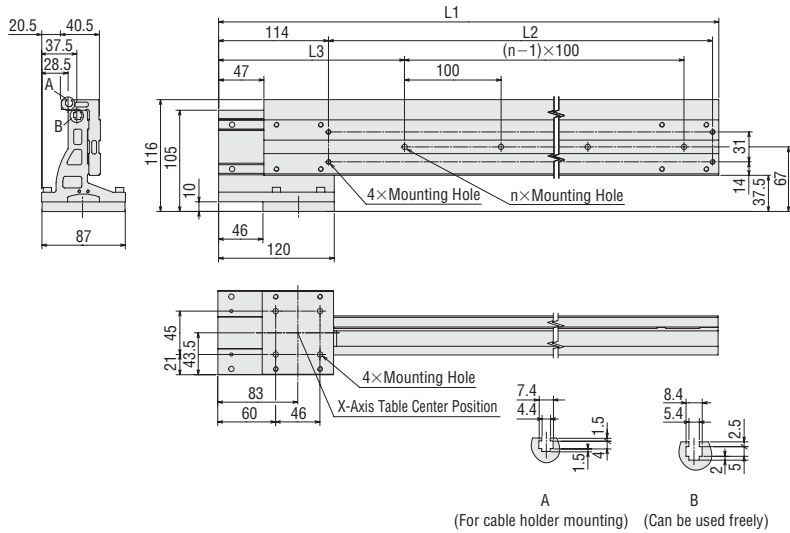
◇ X-Y (Combination of EZS6 and EZS4)

● R-Type



Model	Stroke	L1	L2	L3	n	Mass [kg]	CAD
PAB-S6S4R005	50	279	158.5	143	2	1.58	D1027
PAB-S6S4R010	100	329	208.5	193	2	1.72	D1028
PAB-S6S4R015	150	379	258.5	143	3	1.86	D1029
PAB-S6S4R020	200	429	308.5	193	3	2.00	D1030
PAB-S6S4R025	250	479	358.5	143	4	2.14	D1031
PAB-S6S4R030	300	529	408.5	193	4	2.27	D1032

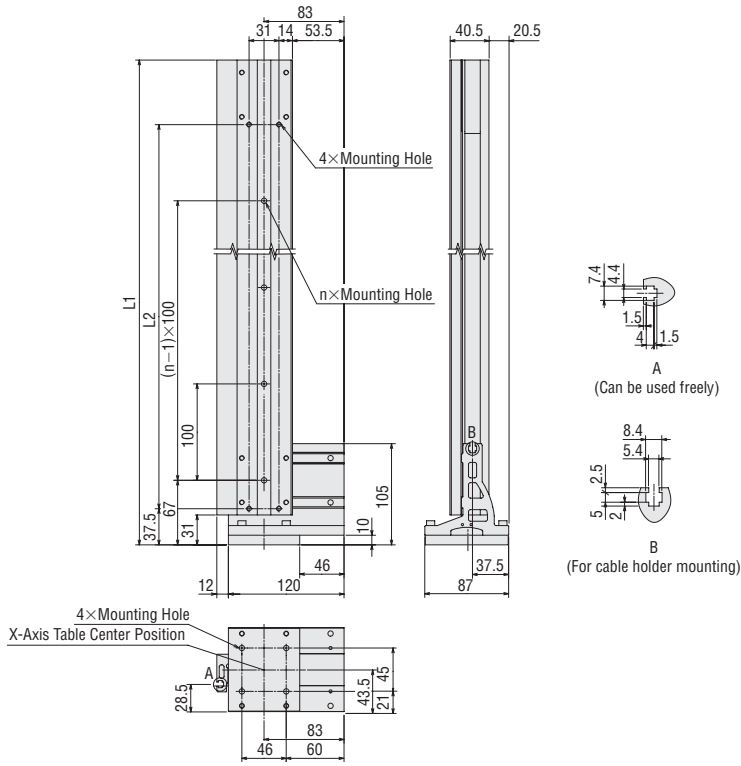
● L-Type



Model	Stroke	L1	L2	L3	n	Mass [kg]	CAD
PAB-S6S4L005	50	279	158.5	143	2	1.58	D1033
PAB-S6S4L010	100	329	208.5	193	2	1.72	D1034
PAB-S6S4L015	150	379	258.5	143	3	1.86	D1035
PAB-S6S4L020	200	429	308.5	193	3	2.00	D1036
PAB-S6S4L025	250	479	358.5	143	4	2.14	D1037
PAB-S6S4L030	300	529	408.5	193	4	2.27	D1038

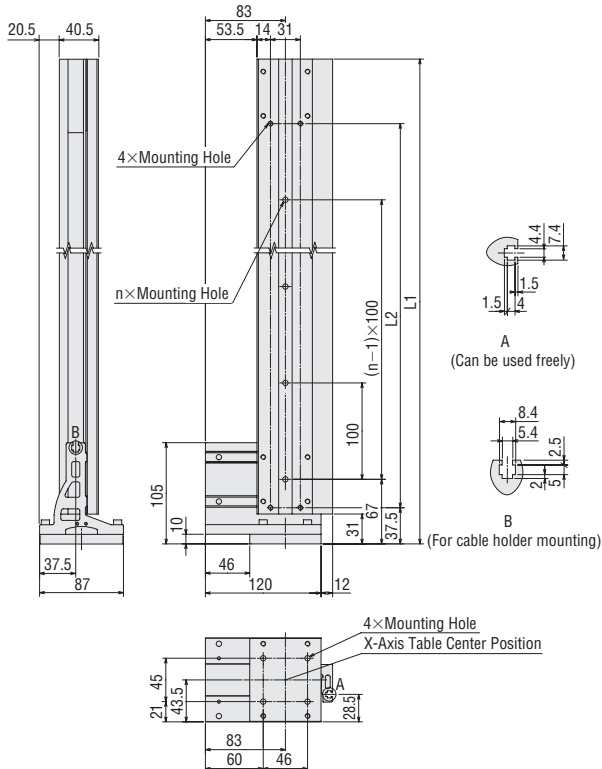
◇ X-Z (Combination of EZS6 and EZS4)

• R-Type



Model	Stroke	L1	L2	n	Mass [kg]	CAD
PAB-S6S4R005	50	263	158.5	2	1.58	D1039
PAB-S6S4R010	100	313	208.5	2	1.72	D1040
PAB-S6S4R015	150	363	258.5	3	1.86	D1041
PAB-S6S4R020	200	413	308.5	3	2.00	D1042
PAB-S6S4R025	250	463	358.5	4	2.14	D1043
PAB-S6S4R030	300	513	408.5	4	2.27	D1044

• L-Type

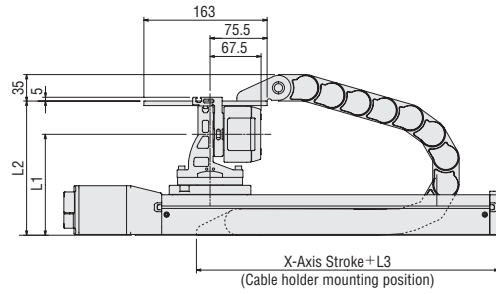
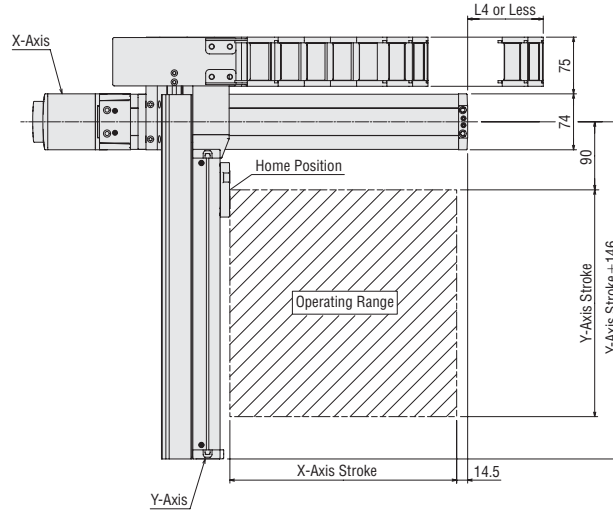


Model	Stroke	L1	L2	n	Mass [kg]	CAD
PAB-S6S4L005	50	263	158.5	2	1.58	D1045
PAB-S6S4L010	100	313	208.5	2	1.72	D1046
PAB-S6S4L015	150	363	258.5	3	1.86	D1047
PAB-S6S4L020	200	413	308.5	3	2.00	D1048
PAB-S6S4L025	250	463	358.5	4	2.14	D1049
PAB-S6S4L030	300	513	408.5	4	2.27	D1050

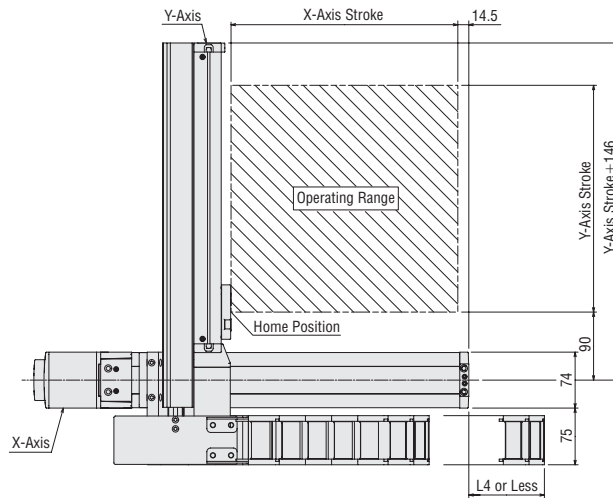
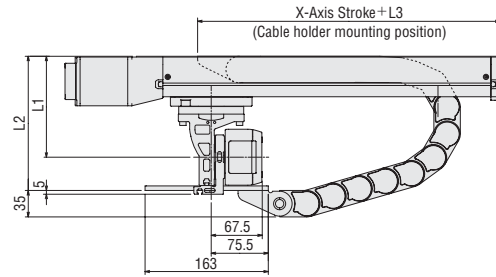
● Operating Range (Unit = mm)

◇ X-Y Mounting Pattern 1

● R-Type



● L-Type

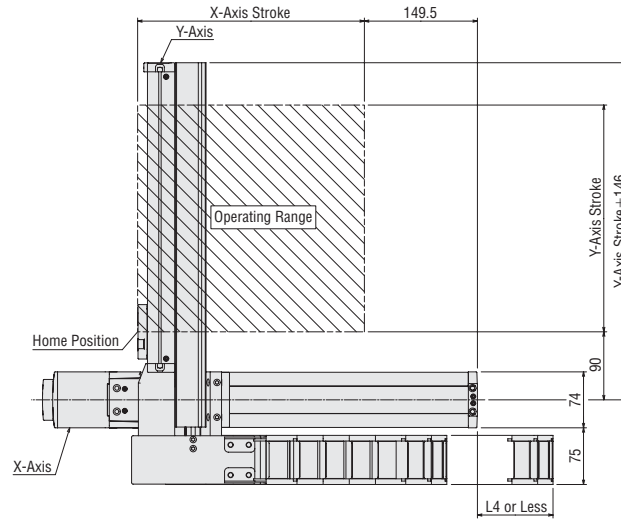
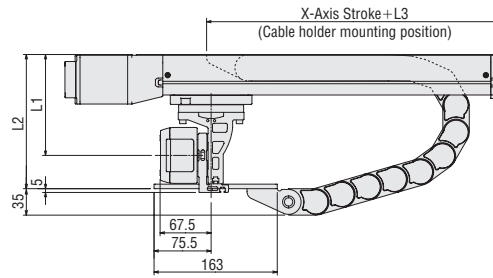


Dual Axes Mounting Bracket Model	X-Axis	Y-Axis	L1	L2	L3	L4
PAB-S4S3R(L) □□□	EZS4	EZS3	117	161	102	170
PAB-S6S3R(L) □□□	EZS6	EZS3	133.5	177.5	128	150
PAB-S6S4R(L) □□□	EZS6	EZS4	133.5	177.5	128	150

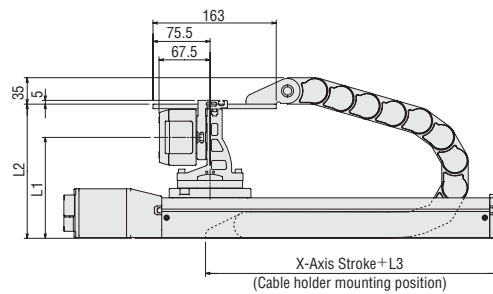
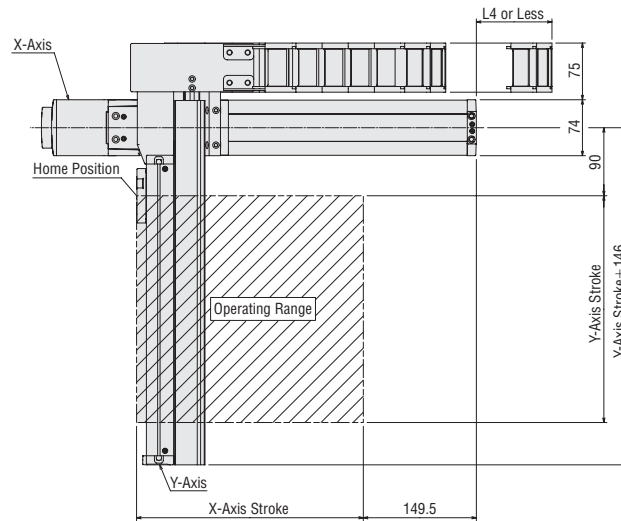
● Enter the Y-axis stroke in the box (□) within the model name.

◇ X-Y Mounting Pattern 2

• R-Type



• L-Type



Dual Axes Mounting Bracket Model	X-Axis	Y-Axis	L1	L2	L3	L4
PAB-S4S3R(L) □□□	EZS4	EZS3	117	161	90	170
PAB-S6S3R(L) □□□	EZS6	EZS3	133.5	177.5	116	150
PAB-S6S4R(L) □□□	EZS6	EZS4	133.5	177.5	116	150

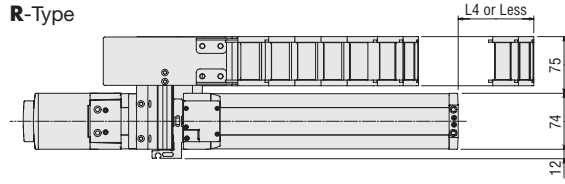
● Enter the Y-axis stroke in the box (□) within the model name.

● Operating Range (Unit = mm)

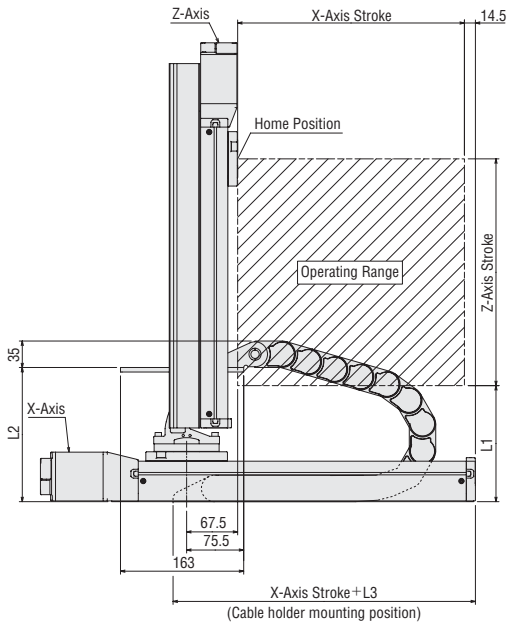
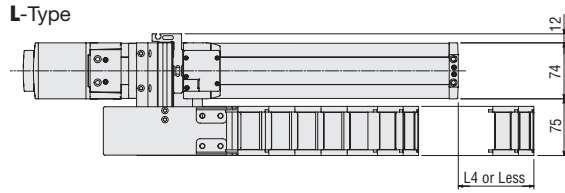
◇ X-Z Mounting

● Pattern 1

R-Type



L-Type

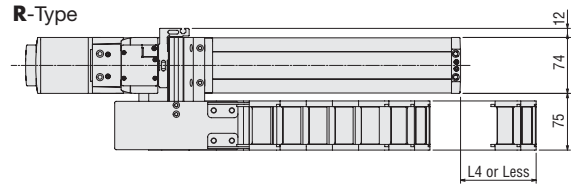


Dual Axis Mounting Bracket Model	X-Axis	Z-Axis	L1	L2	L3	L4
PAB-S4S3R(L) □□□	EZS4	EZS3	137	161	102	170
PAB-S6S3R(L) □□□	EZS6	EZS3	153.5	177.5	128	150
PAB-S6S4R(L) □□□	EZS6	EZS4	153.5	177.5	128	150

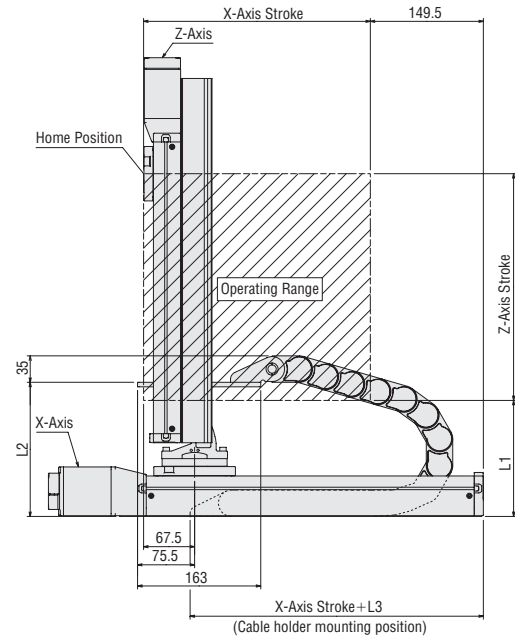
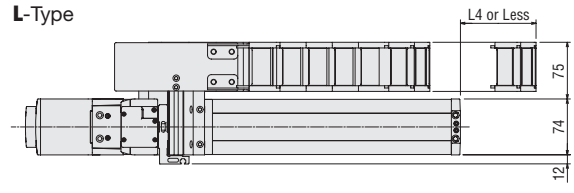
● Enter the Z-axis stroke in the box (□) within the model name.

● Pattern 2

R-Type



L-Type



Dual Axis Mounting Bracket Model	X-Axis	Z-Axis	L1	L2	L3	L4
PAB-S4S3R(L) □□□	EZS4	EZS3	137	161	90	170
PAB-S6S3R(L) □□□	EZS6	EZS3	153.5	177.5	116	150
PAB-S6S4R(L) □□□	EZS6	EZS4	153.5	177.5	116	150

● Enter the Z-axis stroke in the box (□) within the model name.

Overview

Selection

System
Configuration

Product Line

Specifications

Connection
and Operations

Accessories

Selection Calculations