

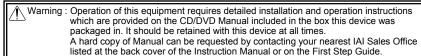
RCP3/RCA2 Actuator **Rod Type**

First Step Guide Seventh Edition

Thank you for purchasing our product.

Make sure to read the Safety Guide and detailed Instruction Manual (CD/DVD) included with the product in addition to this First Step Guide to ensure correct use.

This Instruction Manual is original.



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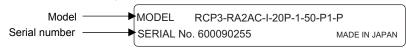
Product Check

This product is comprised of the following parts if it is of standard configuration. If you find any fault in the contained model or any missing parts, contact us or our distributor

 Pa 	arts (The option is exclud	ed.)			
No.	Part Name	Model	Quantity	Remarks	
1	Actuator Main Body	Refer to "How to read the model plate", "How to read the model No."			
Acces	sories				
2	Motor · Encoder Cable (Note 1)		1		
3	First Step Guide		1		
4	Instruction Manual (CD/DVD)		1		
5	Safety Guide		1		

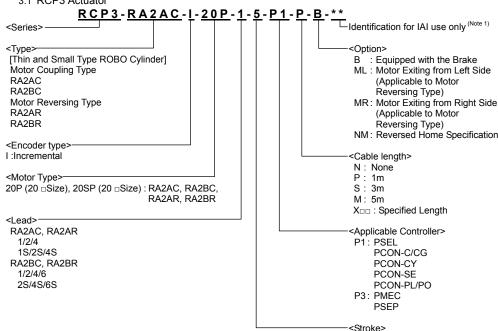
Note 1 Enclosed Motor · Encoder Cable differ depending on the applied controller. Please refer to [Wiring] for the applicable cables.

2. How to read the model plate



3. How to read the Model No

3.1 RCP3 Actuator



Note 1 This may be displayed for the manufacturing reason (This is not to indicate the manufacturing model code.)

[Refer to the catalog or Instruction Manual (CD/DVD) for specification details.]

3.2 RCA2 Actuator

RCA2-RN3N-I-10-4-30-A1-P-FL-** Identification for IAI use only (Note 1) <Type> <Ontion> : Brake-equipped (Note 2) [Thin and Small Type ROBO Cylinder] Slim Type K2 : Connector Cable exit (Motor Coupling Type) direction changed LA: Power Saving Type RA2AC (Motor Reversing Type) Cable length RA2AR N: None P: 1m Total Length Short Type (Fixed Nut Setup Type) RN3NA, RN4NA, RN3N, RN4N S: 3m Total Length Short Type M: 5m X_□: Specified Length (Tapped Hole Setup Type) RP3NA, RP4NA, RP3N, RP4N <Applicable Controller> Single Guide Type A1: ASEL GS3NA, GS4NA, GS3N, GS4N ACON-C/CG Double Guide Type GD3NA, GD4NA, GD3N, GD4N ACON-CY ACON-SE Slide Unit Type ACON-PL/PO SD3NA, SD4NA, SD3N, SD4N A3: AMEC ASEP <Encoder type> Stroke> <Lead> RN4NA, RP4NA <Motor Type> RN3NA, RP3NA GS4NA, GD4NA, 5 (5W) : RA2AC, RA2AR GS3NA, GD3NA, SD4NA 10 (10W): RN3NA, RP3NA, GS3NA, GD3NA, SD3NA RN3N, RP3N, GS3N, GD3N, SD3N 20 (20W): RN4NA, RP4NA, GS4NA, GD4NA, SD4NA SD3NA RN4N, RP4N, GS4N, RN3N, RP3N, GS3N, GD4N SD4N GD3N, SD3N (Lead Screw) RN4N, RP4N, GS4N, GD4N, SD4N (Lead Screw) 2S/4S/6S RN4NA, RP4NA, 1S/2S/4S Note 1 This may be displayed for the manufacturing reason. RN3NA, RP3NA, GS4NA, GD4NA, (This is not to indicate the manufacturing model GS3NA, GD3NA, SD4NA code.) RN4N, RP4N, GS4N, SD3NA RN3N. RP3N. GS3N. Note 2 RN3N, RN4N, RP3N, RP4N, GS3N, SD3NA, SD4NA, GD4N, SD4N GD3N, SD3N GS4N, GD3N and GD4N are not applicable (Ball Screw) (Ball Screw)

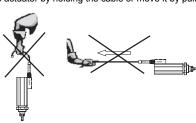
[Refer to the catalog or Instruction Manual (CD/DVD) for specification details.]

Precautions in Handling

Handle it with great care, and keep to the following instructions. Failure to do so may cause damage to the

- 1. Handling of the Packed Product
- Take the greatest care in transporting the product, not to bump or drop it.
- When setting down the packed actuator keep it horizontal.
- Do not step on the package.
- Do not place any heavy article on top of the package that may deform the package
- 2. Handling of the Unpacked Product

Do not transport the actuator by holding the cable or move it by pulling the cable.



- · When the actuator is taken out from the package and handled, hold the base section.
- When carrying the actuator, do not bump or drop the actuator or otherwise cause the actuator to receive any impact or excessive force
- Do not give any unnatural force to any of the sections in the actuator.

Installation Environment, Storage Environment

1. Installation Environment

An environment that satisfies the following conditions is required during installation. Generally speaking, it should be an environment where a worker can work without any protective gear.

- · There should be no direct sunlight
- Any radiant heat from a large heat source such as heat treatment furnace should not be directed at the machine main body.
- The ambient temperature should be 0 to 40°C.
- The relative humidity should be 85% or less. There should not be dew condensation.
- There should not be corrosive gas or flammable gas.
- It should be a normal assembling work environment where there is not too much dust. (For RA2A□ or RA2B□, when it is used under the condition where dust hangs in the air, the life is remarkably shortened.)
- · Oil mist or cutting liquid should not be directed at the machine.
- Chemical liquid should not be splashed on it.
- An impact or vibration should not be transmitted to it.
- There should not be strong electromagnetic waves, ultraviolet rays or radiation.
- The working space required for maintenance or inspection should be secured.

2. Storage and Preservation Environment

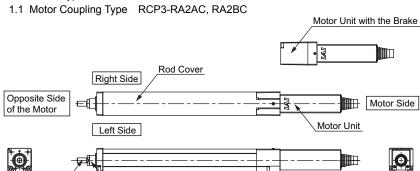
The storage and preservation environment should comply with the same standards as those for the installation environment. In particular, when the machine is to be stored for a long time, pay close attention to environmental conditions so that no condensation forms. Unless specially specified, moisture absorbency protection is not included in the package when the machine is delivered. In the case that the machine is to be stored and preserved in an environment where condensation is anticipated, take the condensation preventive measures from outside of the entire package, or directly after opening the

In the storage and preservation for up to 1 month, it can endure in the temperature at 60°C at maximum. For the storage and preservation longer than that, keep the temperature at 50°C at maximum.

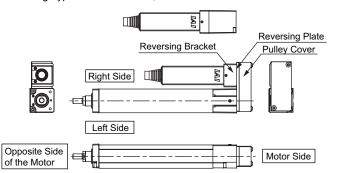
External Dimensions

1. Motor Unit Type

Rod End Fitting



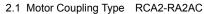
1.2 Motor Reversing Type RCP3-RA2AR, RA2BR

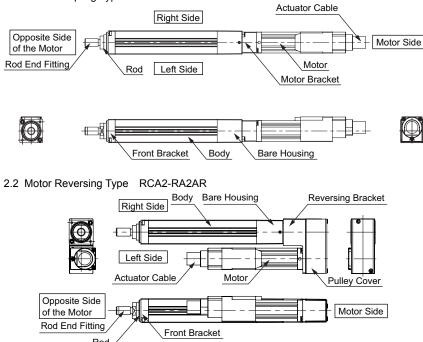


(D)

[Refer to the catalog or instruction manual (CD/DVD) for the details such as the appearance]

2. Slim Type



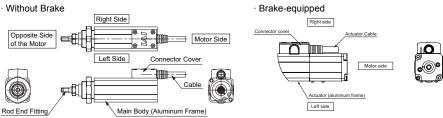


[Refer to the catalog or instruction manual (CD/DVD) for the details such as the appearance]

Total Length Short Type

3.1 Fixed Nut Setup Type

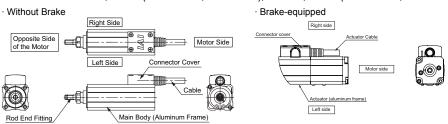
RCA2-RN3NA, RN3N (Lead Screw, Ball Screw), RN4NA, RN4N (Lead Screw, Ball Screw)



[Refer to the catalog or instruction manual (CD/DVD) for the details such as the appearance]

3.2 Tapped Hole Setup Type

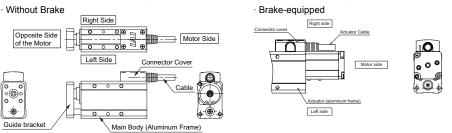
RCA2-RP3NA, RP3N (Lead Screw, Ball Screw), RP4NA, RP4N (Lead Screw, Ball Screw)



[Refer to the catalog or instruction manual (CD/DVD) for the details such as the appearance]

3.3 Single Guide Type

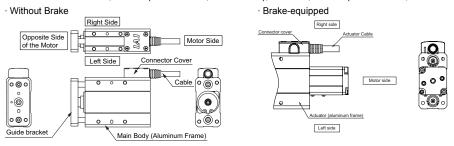
RCA2-GS3NA, GS3N (Lead Screw, Ball Screw), GS4NA, GS4N (Lead Screw, Ball Screw)



[Refer to the catalog or instruction manual (CD/DVD) for the details such as the appearance]

3.4 Double Guide Type

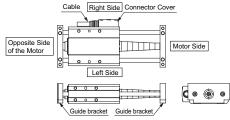
RCA2-GD3NA, GD3N (Lead Screw, Ball Screw), GD4NA, GD4N (Lead Screw, Ball Screw)



[Refer to the catalog or instruction manual (CD/DVD) for the details such as the appearance]

3.5 Slide Unit Type

RCA2-SD3NA, SD3N (Lead Screw, Ball Screw), SD4NA, SD4N (Lead Screw, Ball Screw)



[Refer to the catalog or instruction manual (CD/DVD) for the details such as the appearance]

Attachment

1. Motor Unit Type

RCP3-RA2AC, RA2BC, RA2AR, RA2BR

1.1 Attachment

For the surface to which the actuator is attached, a machined surface or flat one with equivalent accuracy should be used.

[1] Main Body Attachment

This actuator is equipped with the setup tap which can be fixed at the rear side. (Be careful because the tap size varies depending on the actuator type. Refer to dimensional outline drawing in Instruction Manual (CD/DVD)).

Also, a reamed hole for the pilot pin is provided.

Tap Size and	Bolt to be	Tightenin		
Max. Screw Depth	used	In the case that steel is used for the base seating surface:	In the case that aluminum is used for the base seating surface:	Reamed Hole (mm)
M3 Depth 5	М3	1.54N·m (0.16kgf·m)	0.83N·m (0.085kgf·m)	Depth 3 from the \$\phi 2H7 Base Surface

Description of the Set Screws

- For the base male set screw use a hexagon socket head can screw
- For the bolt to be used, a high-tensile bolt complying with ISO-10.9 or more is recommended.
- Secure the following value or more for effective fitting length for bolts and screws.
- In the case that the threaded hole is made of steel: The same length as nominal diameter
- In the case that the threaded hole is made of aluminum: A length of maximum screwing depth

 $\hat{\mathbb{N}}$ Note : Take care in selecting bolt length. Using a bolt with inappropriate length may cause damage to the tapped hole, insufficient attachment strength of the actuator or interference with the driving section, which may result in degradation of accuracy or unexpected accident.

- The base has to have a structure with sufficient rigidity to prevent oscillation.
- For the surface to which the actuator is to be attached, a machined surface or flat one with equivalent accuracy should be used. The flatness of the surface should be within ±0.05mm/m
- Secure the space where maintenance work can be performed

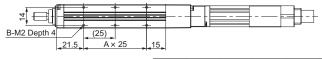
2. Slim Type

RCA2-RA2AC, RA2AR

2.1 Attachment

At the back of the body, there are tapped holes and a reamed hole provided for positioning. The locations of these holes are as shown in the figure below.

(In common for coupling type and reversed type)



ST	L ₁	L ₂	Α	В	Weight
25	163.5	81.5	1	4	170
50	188.5	106.5	2	6	185
75	213.5	131.5	3	8	200
100	238.5	156.5	4	10	215

Description of the Set Screws

The recommended tightening torque is as indicated below:

Bolt to be	Tightenin	g Torque
used	In the case that steel is used for the bolt bearing surface:	In the case that aluminum is used for the bolt bearing surface:
M2	0.42N·m(0.043kgf·m)	0.25N·m(0.026kgf·m)

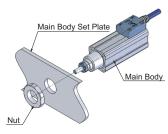
3. Total Length Short Type Fixed Nut Setup Type

RN3NA, RN3N (Lead Screw, Ball Screw), RN4NA, RN4N (Lead Screw, Ball Screw)

3.1 Main Body Attachment

Attach the main body, by means of fitting it into the through hole with diameter of 5 to 10mm on the

- Attach the main body to the main-body set-plate using the nut on the rod in the main body.
- The tolerance of the male screw root section for the main body is "h8", so use it as a spigot.

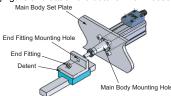


Туре	M	Width across Flats	Max. Tightening Torque
RN3NA, RN3N (Lead Screw, Ball Screw)	M20×1.0	29	49.4
RN4NA, RN4N (Lead Screw, Ball Screw)	M24×1.0	32	76.8

Note: Do not fasten the bolt with the torque more than the max. tightening torque. Failure to do so may cause a damage to the actuator

3.2 Attachment of the Detent

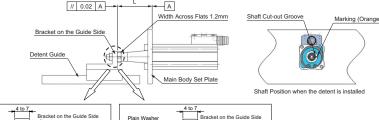
The total length short type rod (attachment type with fixing the nut) does not have the detent. For the RN3NA, RN3N (lead screw, ball screw), RN4NA, RN4N (lead screw, ball screw) without the guide, refer to the following figure and attach the detent when necessary.

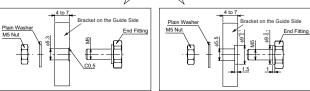


[Detent Attachment Procedure and Precautions]

- (1) The coaxial level for the main body mounting-hole on the main-body set-plate and end fitting mounting-hole in the bracket on the guide side, should be within the range of ± 0.05 . Also, the flatness should be within the range of $\pm 0.02. \label{eq:energy}$
- (2) Turn the rod end fitting by hand and bring out the screw shaft to the front
- (3) Fix the rod end fitting on the guide side. When it is fixed, confirm that the "L" size is complied and align the marking seal on the rear side with the shaft cut-out groove.

Keep this condition; hold the diagonal flats on the end fitting bolt head, using a spanner, etc, to fix the bracket on the guide side.





RN3 Bracket on the Guide Side(Without Back Facing) RN3 Bracket on the Guide Side(With Back Facing)

Tightening Torque of End Fitting Type **Tightening Torque** RN3NA, RN3N 3.1N·m ead Screw, Ball Scre RN4NA, RN4N Lead Screw, Ball Scre

RN4 Bracket on the Guide Side(Without Back Facing) RN4 Bracket on the Guide Side(With Back Facing)

Туре	Lead	Bracket on the Guide Side	<u>L</u>
	1	Without Back Facing	25.0±0.1
RN3NA, RN3N (Lead Screw, Ball Screw)	'	With Back Facing	24.0±0.1
KNOWA, KNOW (Lead Sciew, Ball Sciew)	2, 4	Without Back Facing	25.3±0.1
		With Back Facing	24.3±0.1
	*	Without Back Facing	27.0±0.1
RN4NA, RN4N (Lead Screw, Ball Screw)		With Back Facing	26.0±0.1
KINHINA, KINHIN (LEAU SCIEW, Ball SCIEW)		Without Back Facing	27.3±0.1
	2, 4, 6	With Back Facing	26.3±0.1

1 Note: Do not join the detent to the actuator main body using the floating joint, etc. If so, the radial load might be given to the screw shaft due to the eccentricity, which might cause an actuator malfunction or early damage

3.3 Flange Attachment

Prepare the flange shaped plate and attach the main body from the rear side.

- Attach it onto the flange using the nut on the rod in the main body.
- Set the main body set plate onto the flange using the screws In the case that positioning is required, insert the pilot pin.

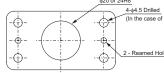
(Note) Make a hole on the main body set plate, larger than the nut size to escape the nut.

,	, , ,	
Туре	L	
RN3NA, RN3N (Lead Screw, Ball Screw)	ф34	
RN4NA, RN4N (Lead Screw, Ball Screw)	ф30.8	
	Main Body Set Plate	
Main Body Mounting Pilot Pin Hole (2 Locate	Pilot Pin Hole (2 Locations) Flange	Pilot Pin (2 pieces)

Actuator Main Body Attachment to the Flange

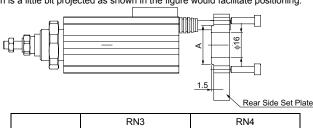
Туре	M	Width across Flats	Max. Tightening Torque
RN3NA, RN3N (Lead Screw, Ball Screw)	M20×1.0	29	49.4
RN4NA, RN4N (Lead Screw, Ball Screw)	M24×1.0	32	76.8

(Flange Reference Drawing)



3.4 Attachment from the Rear Side

In the case that the actuator is attached from the rear side, preparing the rear side set plate where the round column is a little bit projected as shown in the figure would facilitate positioning.



	RN3	RN4
	(Lead Screw, Ball Screw)	(Lead Screw, Ball Screw)
۸	-0.2	-0.2 ∮30
A	φ25 -0.3	φ30 -0.3

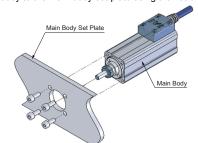
4. Total Length Short Type Tapped Hole Setup Type

RP3NA, RP3N (Lead Screw, Ball Screw), RP4NA, RP4N (Lead Screw, Ball Screw)

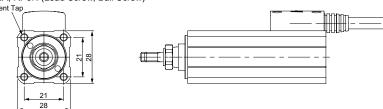
4.1 Main Body Attachment

Attach the main body, by means of fitting it into the through hole with diameter of 5 to 10mm on the smooth flat plate.

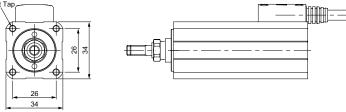
- Attach the main body set plate using the main body tapped hole.
- Attach the main body to the main-body set-plate using the nut on the rod in the main body.



•RP3NA, RP3N (Lead Screw, Ball Screw)



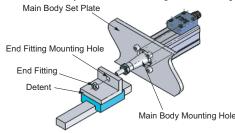




Type	Tapped Hole	Tightening Torque	
Турс	Size	In the case of the steel plate:	In the case of the aluminum plate:
RP3NA, RP3N (Lead Screw, Ball Screw) RP4NA, RP4N (Lead Screw, Ball Screw)	M4 Depth 8	3.6N·m	1.8N·m

4.2 Attachment of the Detent

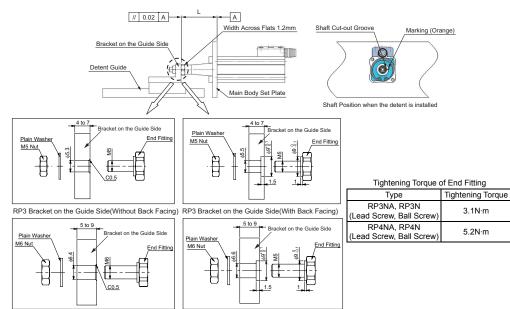
The total length short type rod (attachment type with fixing the nut) does not have the detent. In the case of RP3NA, RP3N (lead screw, ball screw), RP4NA, RP4N (lead screw, ball screw) without the guide, prepare the detent when necessary and attach it referring to the following figure.



[Detent Attachment Procedure and Precautions]

bracket on the guide side.

- (1) The coaxial level for the main body mounting-hole on the main-body set-plate and end fitting mounting-hole in the bracket on the guide side, should be within the range of □0.05. Also, the flatness should be within the range of □0.02.
- (2) Turn the rod end fitting by hand and bring out the screw shaft to the front.
- (3) Fix the rod end fitting on the guide side. When it is fixed, confirm that the "L" size is complied and align the marking seal on the rear side with the shaft cut-out groove. Keep this condition; hold the diagonal flats on the end fitting bolt head, using a spanner, etc, to fix the



DB4 B	DD4 Deciles on the Order Olde (Mith Deals Feeler)
RP4 Bracket on the Guide Side(Without Back Facing)	RP4 Bracket on the Guide Side(With Back Facing)

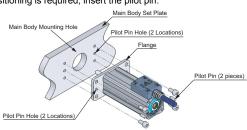
	Туре	Lead	Bracket on the Guide Side	L
RP3I	RP3NA, RP3N (Lead Screw, Ball Screw)	1	Without Back Facing	11.5±0.1mm
RP4	NA, RP4N (Lead Screw, Ball Screw)	' [With Back Facing	10.5±0.1mm
	NA, RP3N (Lead Screw, Ball Screw)	2, 4, 6	Without Back Facing	11.8±0.1mm
RP4	NA, RP4N (Lead Screw, Ball Screw)	2, 4, 0	With Back Facing	10.8±0.1mm

Note: Do not join the detent to the actuator main body using the floating joint, etc. If so, the radial load might be given to the screw shaft due to the eccentricity, which might cause an actuator malfunction or early damage.

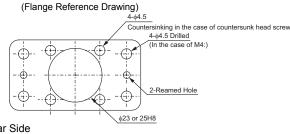
4.3 Flange Attachment

Prepare the flange shaped plate and attach the main body from the rear side.

- Attach the actuator onto the flange using the M4 countersunk screw and the tapped hole in the main body.
- Set the main body set plate onto the flange using the screws.
 In the case that positioning is required, insert the pilot pin.

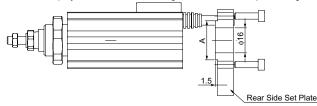


Actuator Main Body Attachment to the Flange					
Туре	Tapped Hole Size	Tightening Torque			
		In the case of the steel flange:	In the case of the aluminum flange:		
RP3NA, RP3N (Lead Screw, Ball Screw) RP4NA, RP4N (Lead Screw, Ball Screw)		3.6N·m	1.8N·m		



4.4 Attachment from the Rear Side

In the case that the actuator is attached from the rear side, preparing the rear side set plate where the round column is a little bit projected as shown in the figure would facilitate positioning.



		RP3	RP4	
		(Lead Screw, Ball Screw)	(Lead Screw, Ball Screw)	
	А	-0.2	-0.2	
		φ25 -0.3	ф30 -0.3	

5. Single Guide Type

GS3NA, GS3N (Lead Screw, Ball Screw), GS4NA, GS4N (Lead Screw, Ball Screw)

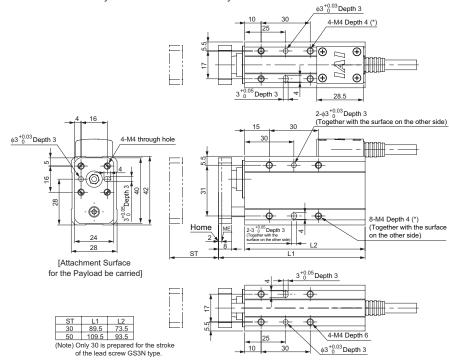
For the surface to which the actuator main body is attached, a machined surface or flat

For the surface to which the actuator main body is attached, a machined surface or fi one with equivalent accuracy should be used.

- Because the screw effective depth varies depending on the machine type and attachment surface, determine the screw length to be used referring to the figure.
- Each attachment surface has a round hole for the pilot pin and slot, use them when necessary.

•GS3NA, GS3N (Lead Screw, Ball Screw)

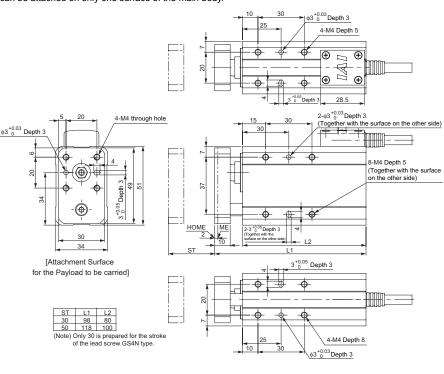
Four surfaces of the main body have the structure available for actuator setup. Anything to be carried can be attached on only one surface of the main body.



Note: The tapped hole in the attachment section is partly a through hole. Never use the screw longer than the screw effective length. Failure to do so may cause damage to inner mechanism or electrical component.

•GS4NA, GS4N (Lead Screw, Ball Screw)

Four surfaces of the main body have the structure available for actuator setup. Anything to be carried can be attached on only one surface of the main body.



Note: The tapped hole in the attachment section is partly a through hole. Never use the screw longer than the screw effective length. Failure to do so may cause damage to inner mechanism or electrical component.

6. Double Guide Type

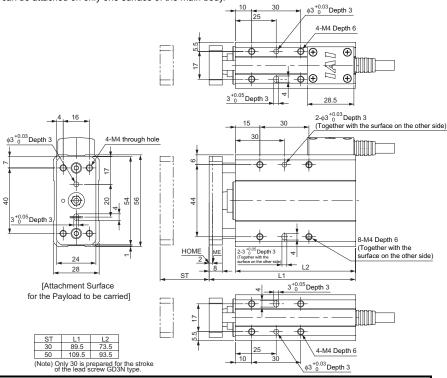
GD3NA, GD3N (Lead Screw, Ball Screw), GD4NA, GD4N (Lead Screw, Ball Screw)

For the surface to which the actuator main body is attached, a machined surface or flat one with equivalent accuracy should be used.

- Because the screw effective depth varies depending on the machine type and attachment surface, determine the screw length to be used referring to the figure.
- Each attachment surface has a round hole for the pilot pin and slot, use them when necessary.

•GD3NA, GD3N (Lead Screw, Ball Screw)

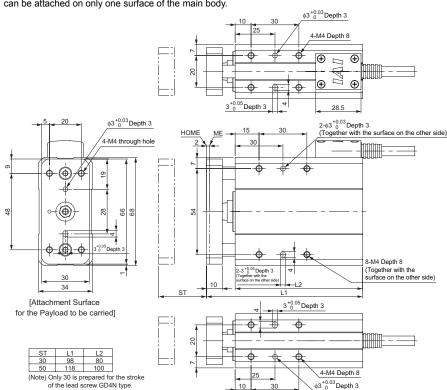
Four surfaces of the main body have the structure available for actuator setup. Anything to be carried can be attached on only one surface of the main body.



Note: The tapped hole in the attachment section is partly a through hole. Never use the screw longer than the screw effective length. Failure to do so may cause damage to inner mechanism or electrical component.

•GD4NA, GD4N (Lead Screw, Ball Screw)

Four surfaces of the main body have the structure available for actuator setup. Anything to be carried can be attached on only one surface of the main body.



⚠ Note: The tapped hole in the attachment section is partly a through hole. Never use the screw longer than the screw effective length. Failure to do so may cause damage to inner mechanism or electrical component

7. Slide Unit Type

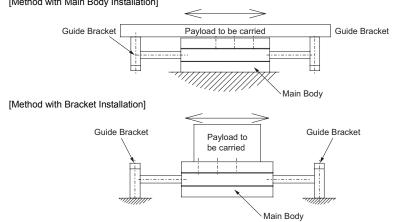
SD3NA, SD3N (Lead Screw, Ball Screw), SD4NA, SD4N (Lead Screw, Ball Screw)

For the surface to which the main body or guide bracket is attached, a machined surface or flat one with equivalent accuracy should be used.

- Because the screw effective depth varies depending on the machine type and attachment surface,
- determine the screw length to be used referring to the figure. Each attachment surface has a round hole for the pilot pin and slot, use them when necessary.

For the attachment of the slide unit type, there are two methods; installing the main body and installing

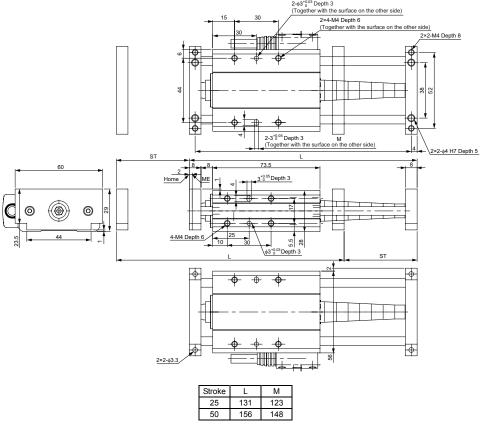
[Method with Main Body Installation]



Note: When the method with the bracket attachment is used, the actuator cannot be installed

•SD3NA, SD3N (Lead Screw, Ball Screw)

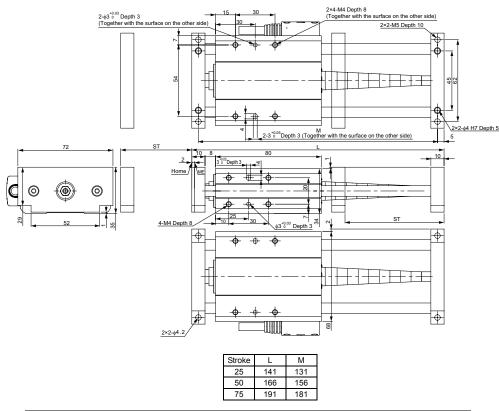
Three surfaces of the main body have the structure available for actuator setup.



Note: The tapped hole in the attachment section is partly a through hole. Never use the screw longer than the screw effective length. Failure to do so may cause damage to inner mechanism or electrical component.

•SD4NA, SD4N (Lead Screw, Ball Screw)

Three surfaces of the main body have the structure available for actuator setup.



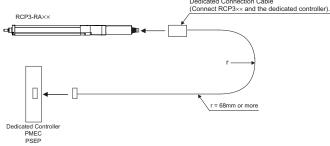
/Note: The tapped hole in the attachment section is partly a through hole. Never use the screw longer than the screw effective length. Failure to do so may cause damage to inner mechanism or electrical component.

Wiring

For the controller, only the dedicated controller manufactured by our company can be used. For the connection between the actuator and controller, use the attached dedicated connection cable.

1. RCP3 Actuator Connection

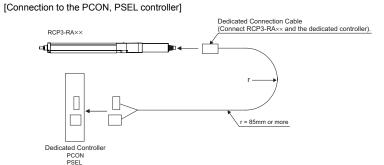
Motor Coupling Type RA2AC/RA2BC, Motor Reversing Type RA2AR/RA2BR [Connection to the PMEC, PSEP controller]



Dedicated Connection Cable CB-APSEP-MPA***

*** shows the cable length. The max. length should be 20m.

Example) 080 = 8m



Dedicated Connection Cable CB-PCS-MPA***

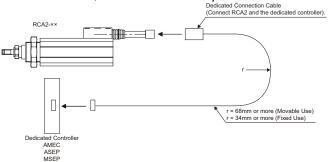
*** shows the cable length. The max. length should be 20m.

Example) 080 = 8m

2. RCA2 Actuator Connection

RN3N/RN4N, RP3N/RP4N, GS3N/GS4N, GD3N/GD4N, SD3N/SD4N

[Connection to the AMEC, ASEP and MSEP controller]

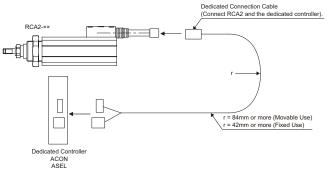


Dedicated Connection Cable CB-APSEP-MPA***

*** shows the cable length. The max. length should be 20m.

Example) 080 = 8m

[Connection to the ACON, ASEL controller]



Dedicated Connection Cable CB-ACS-MPA***

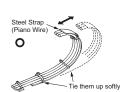
*** shows the cable length. The max. length should be 20m.

Example) 080 = 8m

[Prohibited Items in the Cable Processing]

- Do not pull or bend forcibly the cable so as not to give any extra load or tension to the cable.
- Do not process the cable to extend or shortening by means of cutting out, combination or connecting with another cable.
- Do not let the cable flex at a single point.





• Do not let the cable bend, kink or twist.



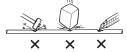
• Do not pull the cable with a strong force.



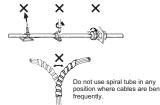
• Do not let the cable receive a turning force at a single point.



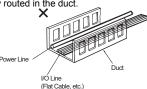
• Do not pinch, drop a heavy object onto or cut the cable.



• When fixing the cable, provide a moderate slack and do not tension it too tight.



 Separate the I/O line, communication line and power line from each other. Arrange so that such lines are independently routed in the duct.



Follow the instructions below when using a cable track.

- If there is an indication to the cable for the space factor in a cable track, refer to the wiring instruction given by the supplier when storing the cable in the cable track.
- Avoid the cables to get twined or twisted in the cable track, and also to have the cables move
 freely and do not tie them up. (Arrange the wiring so the cables are not to be pulled when bent.)
 Do not pile up cables. It may cause faster abrasion of the sheaths or cable breakage.







Note:

- When the cable is connected or disconnected, make sure to turn off the power to the controller. When the cable is connected or disconnected with the controller power turned ON, it might cause a malfunction of the actuator and result in a serious injury or damage to the machinery.
- When the connector connection is not correct, it would be dangerous because of a malfunction of the actuator. Make sure to confirm that the connector is connected correctly.



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