

# Linear Guideway with Cover Strip

## Installation Manual

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## A.Introduction of cover strip and related accessories

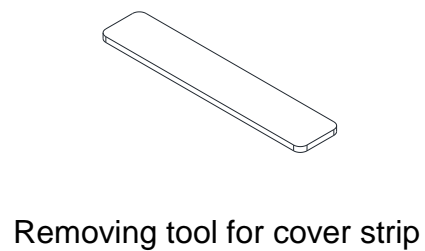
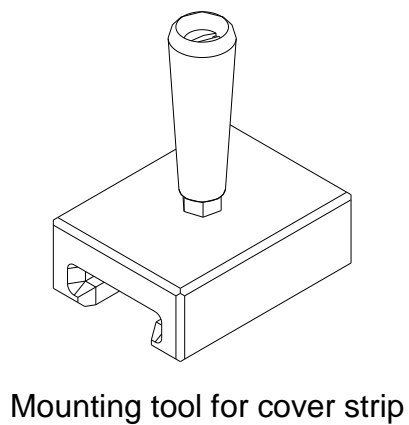
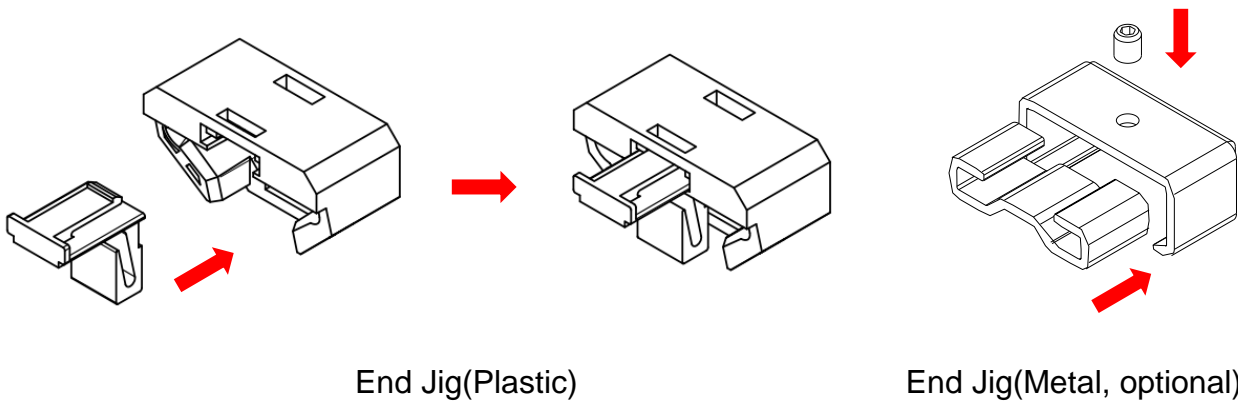
### 1. Specifications

Series	Specification
<b>CG</b>	15、20、25、30、35、45
<b>RG</b>	15、20、25、30、35、45、55、65

### 2. Advantages

- Stainless steel
- Quick installation
- Avoid of seal damage from bolt holes
- Prevention of particle intrusion into blocks from bolt holes

### 3. Related accessories

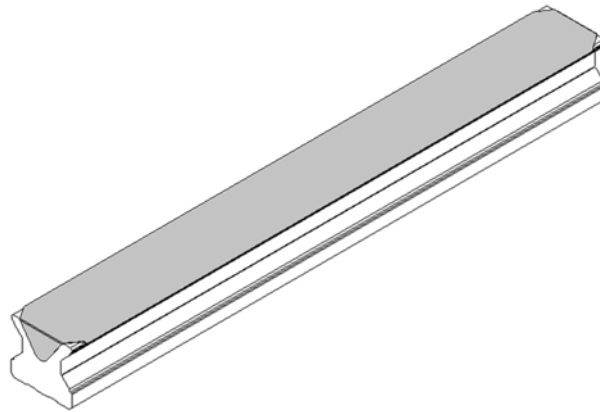


## B. Rail with cover strip assembly (Rail less than 4 meter and without butt-joint)

### 1. Packaging and removal of cover strip

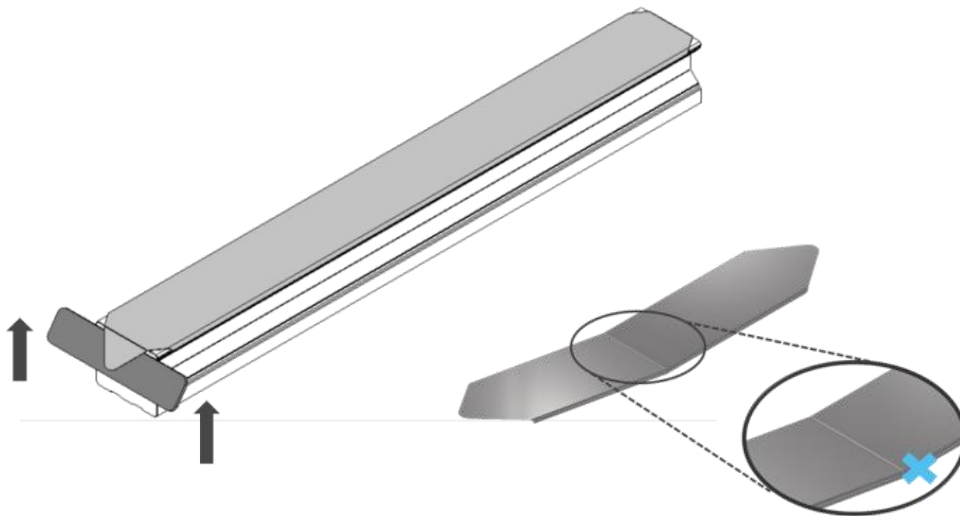
#### I. Delivery

- 1-1. For rails less than 4 meter and without butt-joint, cover strip will be mounted on rail.
- 1-2. For delivery method of cover strip without rail assembly, please refer to page 8.



#### II. Removal of cover strip

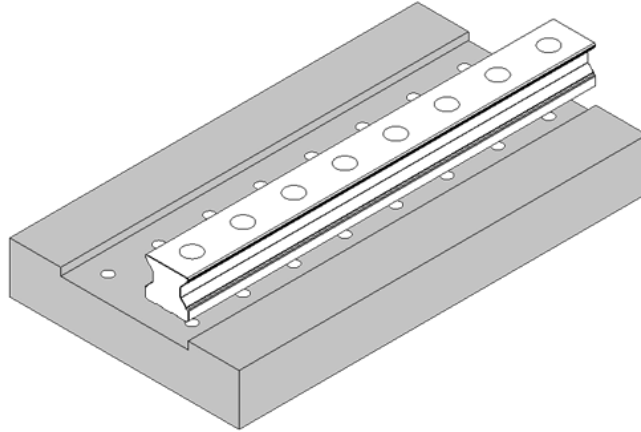
Please take care to prevent deformation or creases while removing cover strip. Dust proof capability will be effected by deformation or creases and reuse of cover strip is not recommended. HIWIN also provides the optional tools to remove cover strip.



## 2. Installation guide for linear guideway and cover strip

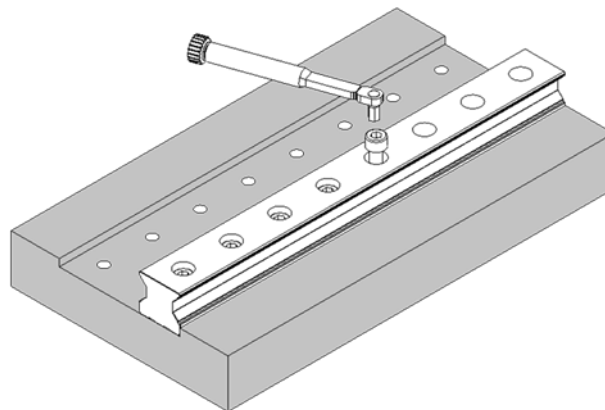
### I. Preparations

Remove all debris from the mounting surface before installation.



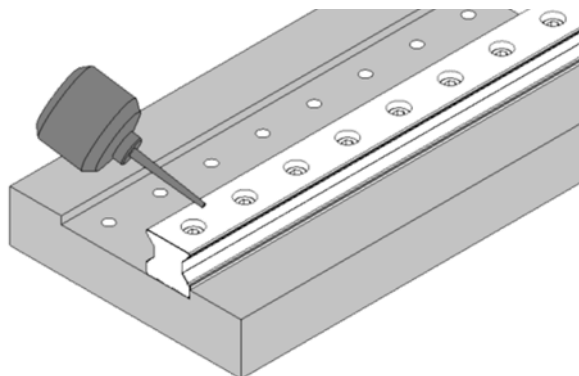
### II. Installation of rail

Align the rail on mounting surface. To ensure straightness, tighten mounting bolts with a torque wrench to the specific torque provided by HIWIN.



### III. Anti-corrosion

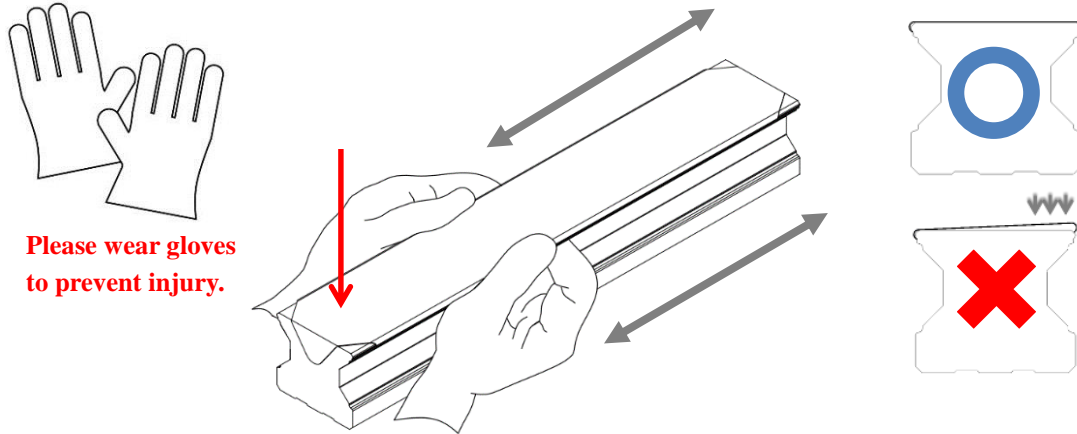
Before mounting cover strip, please apply rust-proof oil on rail.



## IV. Mount cover strip

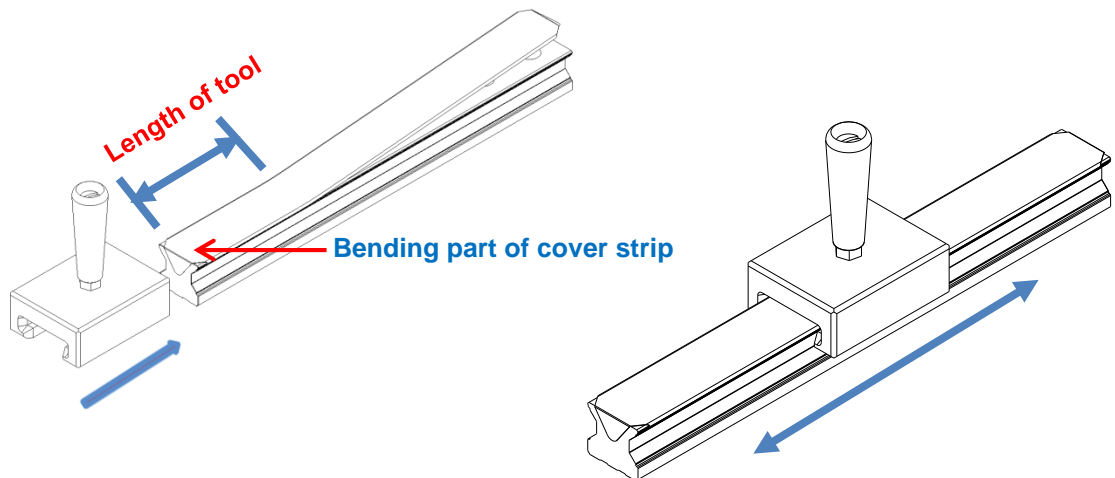
### ■ Method 1.

Align the bending part of cover strip with rail edge. Press down both side of cover strip to ensure full attachment between cover strip and rail.



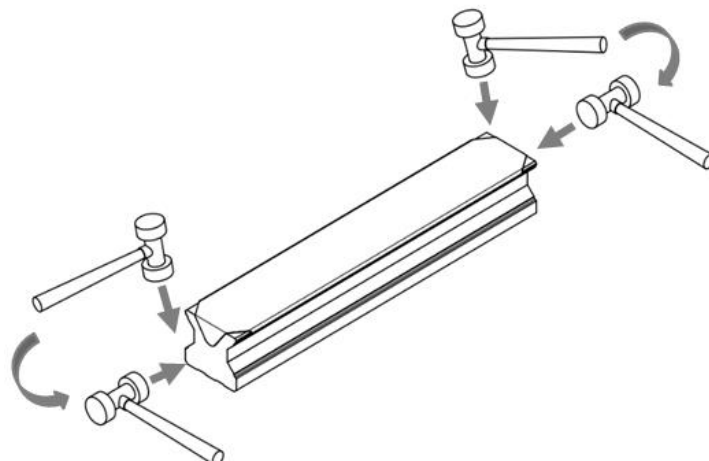
### ■ Method 2.

HIWIN provides optional tool for mounting cover strip. Align the bending part of cover strip with rail edge and buckle the front of cover strip on rail. Insert the tool and slide gently along the rail to ensure full attachment between cover strip and rail. Withdraw the tool from opposite end of rail.



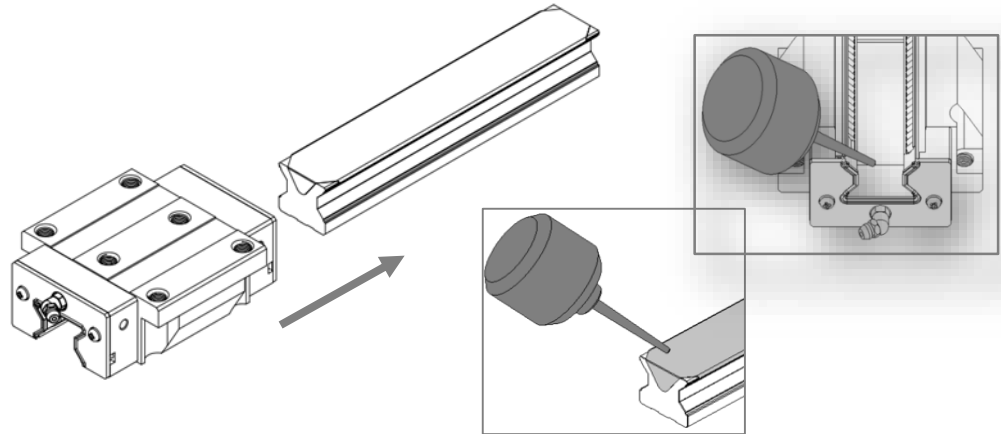
## V. Bend cover strip end

After mounting the cover strip on rail, the two ends of cover strip needs to be bent, please use plastic/rubber mallet to gently flatten the cover strip end.



## VI. Mount Block

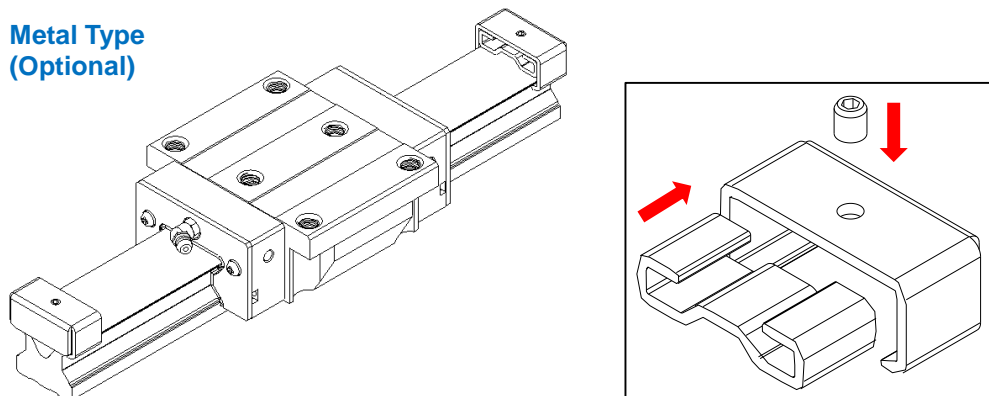
Mount the block from the edge of the rail, where the bending part of cover strip is buckled. Lubricating oil / grease can be applied on surface of cover strip and end seal of block to avoid damaging the end seal.



## VII. Mount end jig

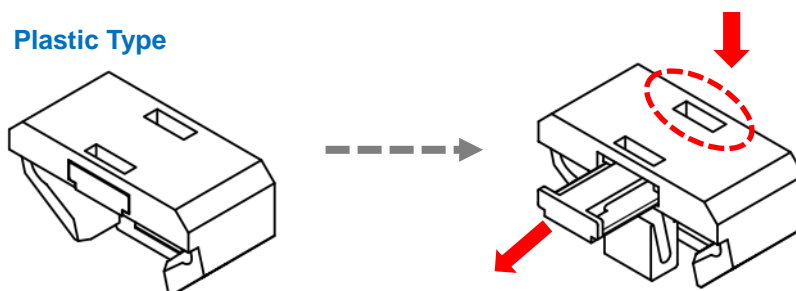
In order to prevent the cover strip separating from the rail or slipping movement on the rail, please assemble the end jig on both end of rail.

**Metal Type  
(Optional)**

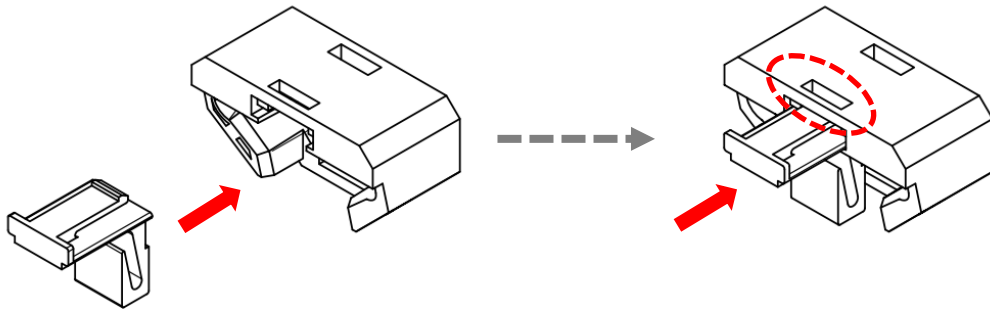


1. when assemble inner and outer parts of end jig, using "-" (flat) type screw driver to push the square hole on the top of outer parts(black colored part). then the inner part will move out. Please refer to the below drawing.

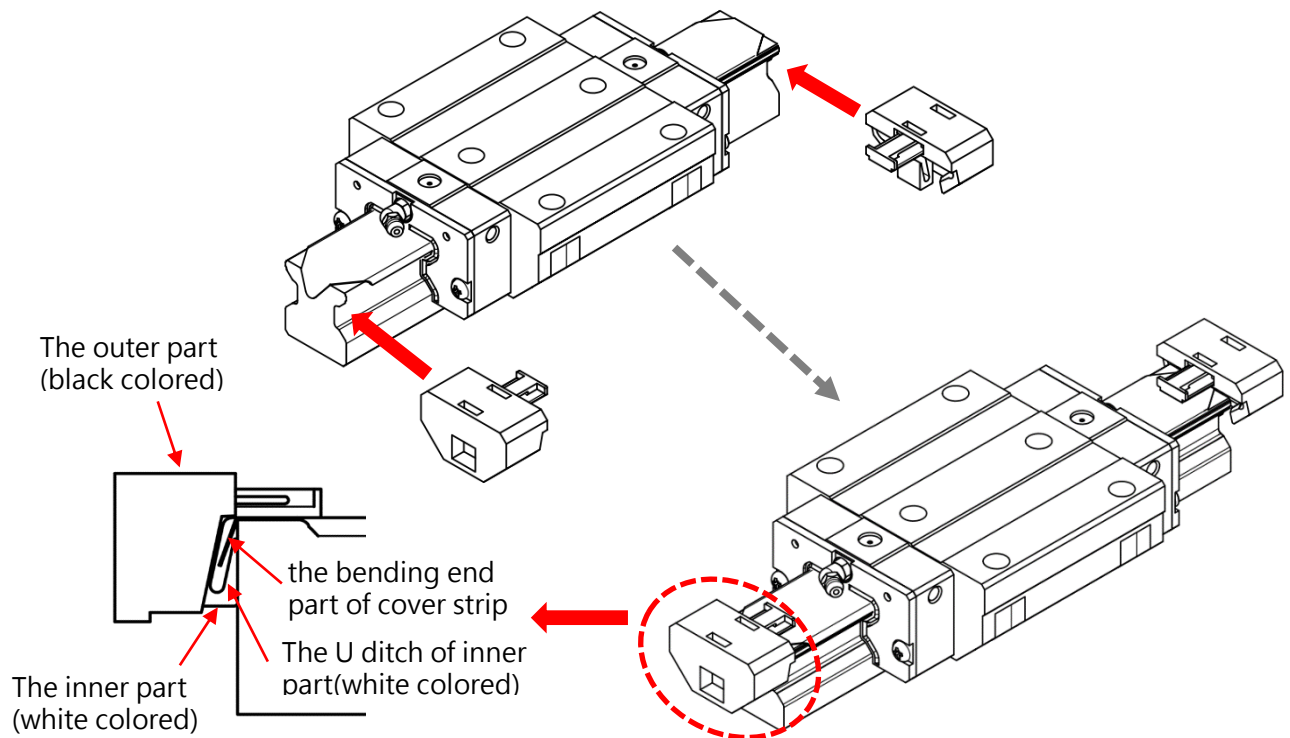
**Plastic Type**



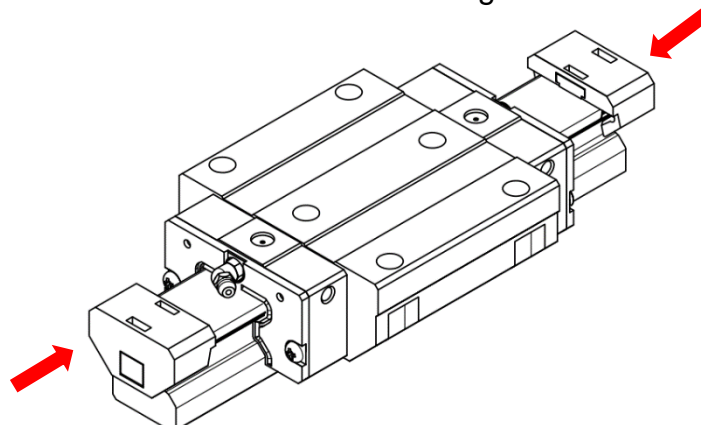
2. When the outer and inner parts are separated, put inner part slightly engaged in the outer part. Please refer to the below drawing.



3. Put the end jig on both ends of the rail, put the end of cover strip inside the U shape ditch of inner part. Please refer to the below drawing.



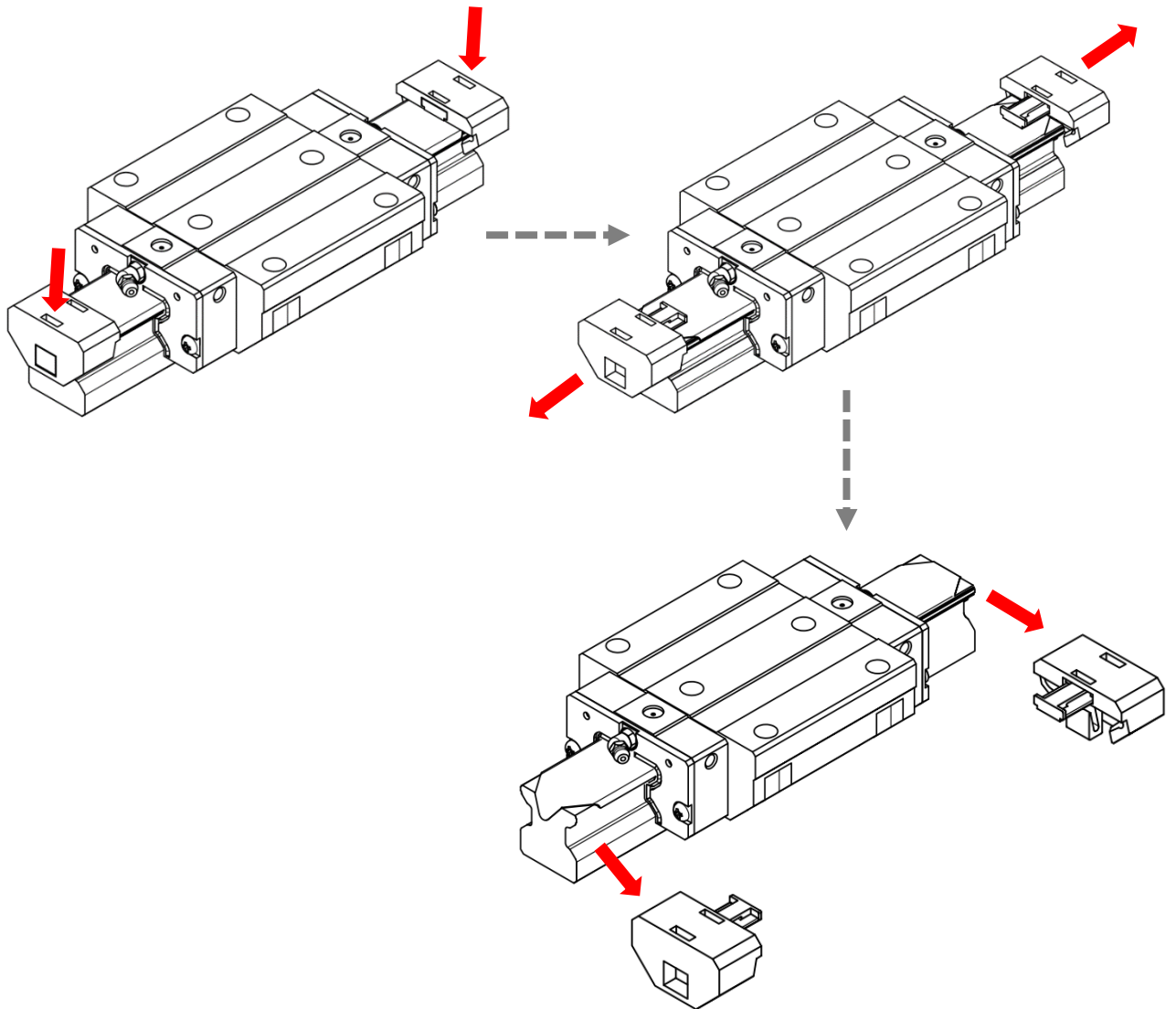
4. Push outer parts toward the end surface of the rail, then it will be fixed with inner part. Please refer to the below drawing.





### VIII. Dismount the end jig

When dismounting the end jig, using "-"(flat) type screw driver to push the square hole on the top of outer parts (black colored). then the outer part and inner part will be separated. Move outer part backward until inner part reach the 2nd square hole. Then move the end jig to the side. Please refer to the below drawing.



**Cautions:**

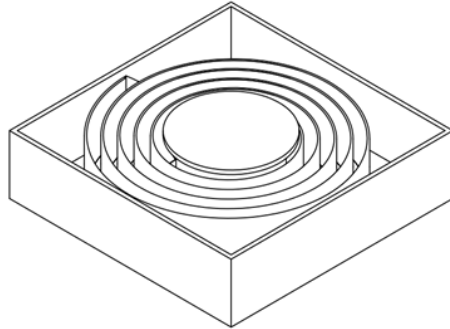
1. Do not use hammer to tap the end jig while mounting.
2. When dismounting the end jig, please use the tool and follow the instruction.  
Dismounting or pulling the end jig's outer part with force or pulling the cover strip without using the tool, may damage and deform the cover strip's end rim or the inner part component.

## C. Rail without cover strip (Rail over 4 meter or butt-joint)

### 1. Packaging of cover strip

#### I. Delivery

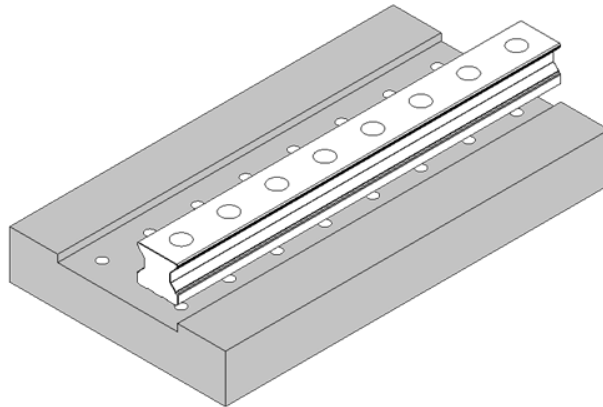
The cover strip is delivered in carton as shown below.



### 2. Installation guide for linear guideway and cover strip

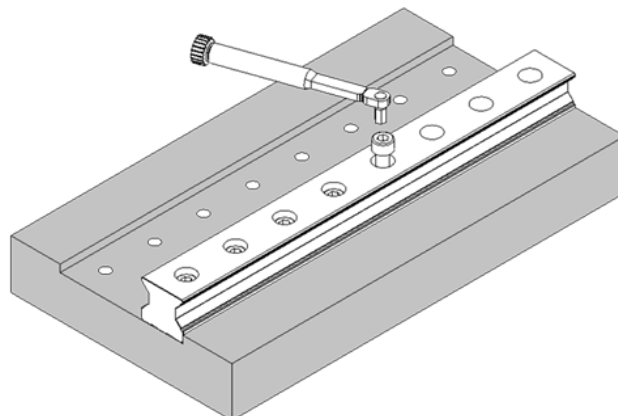
#### I. Preparations

Remove all debris from the mounting surface before installation.



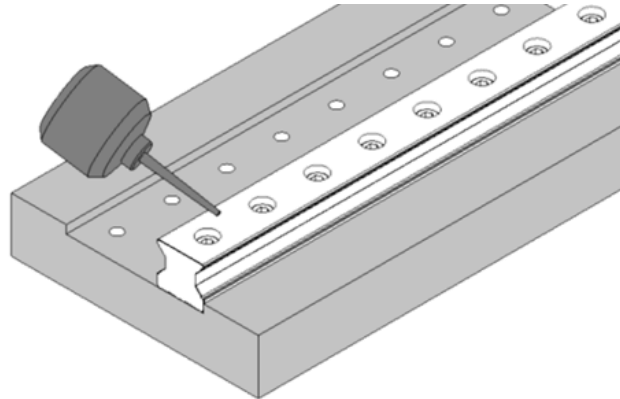
#### II. Installation of rail

Align the rail on mounting surface. To ensure straightness, tighten mounting bolts with a torque wrench to the specific torque provided by HIWIN.



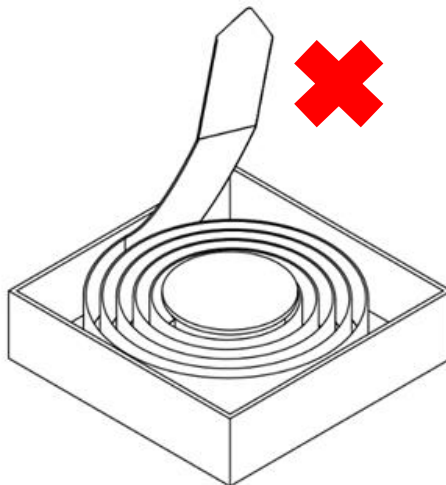
### III. Anti-corrosion

Before mounting cover strip, please apply rust-proof oil on rail.

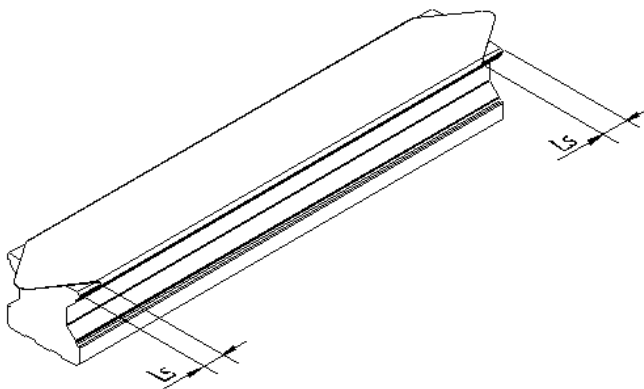


### IV. Removal of cover strip

Please take care to prevent deformation or creases while removing cover strip. Dust proof capability will be effected by deformation or creases and reuse of cover strip is not recommended.



### V. Cover strip alignment

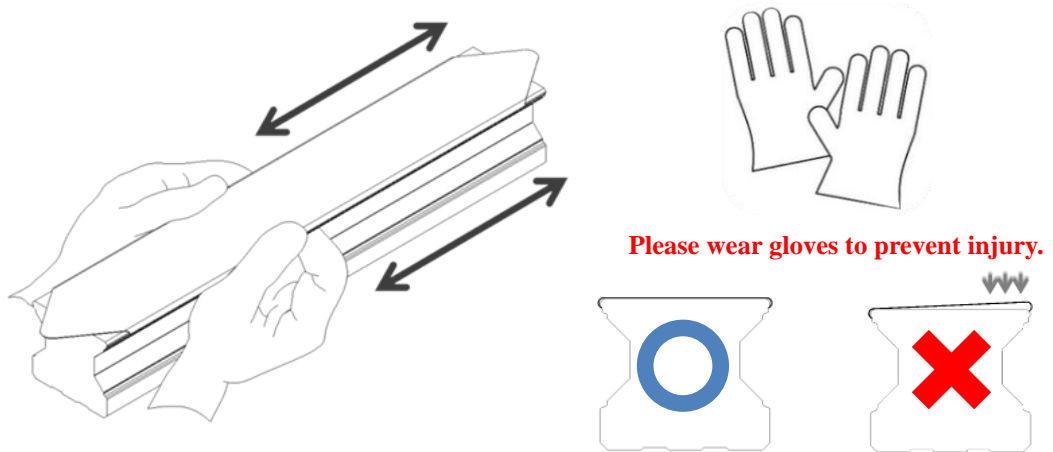


Size	$L_5$ (mm) (Approx.)
15	5.0
20	8.0
25	9.5
30	10.0
35	10.0
45	11.0
55	12.0
65	14.5

## VI. Mount cover strip

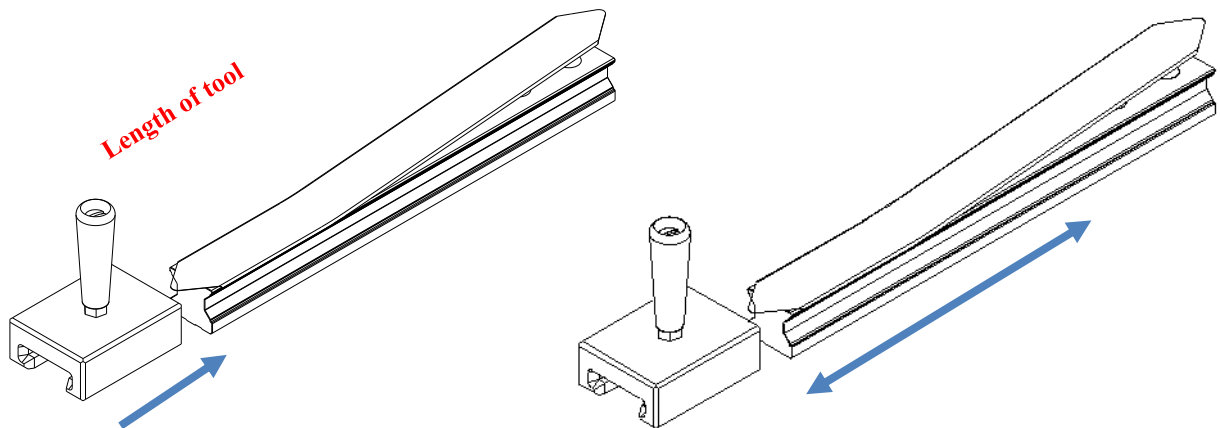
### ■ Method 1.

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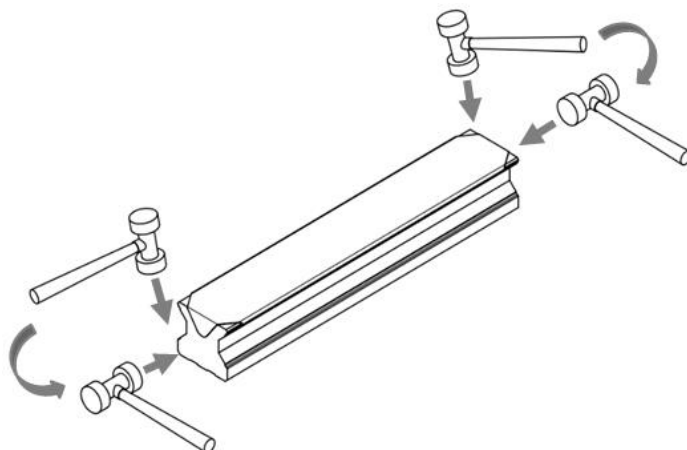
### ■ Method 2.

HIWIN provides optional tool for mounting cover strip. Align the bending part of cover strip with rail edge and buckle the front of cover strip on rail. Insert the tool and slide gently along the rail to ensure full attachment between cover strip and rail. Withdraw the tool from opposite end of rail.



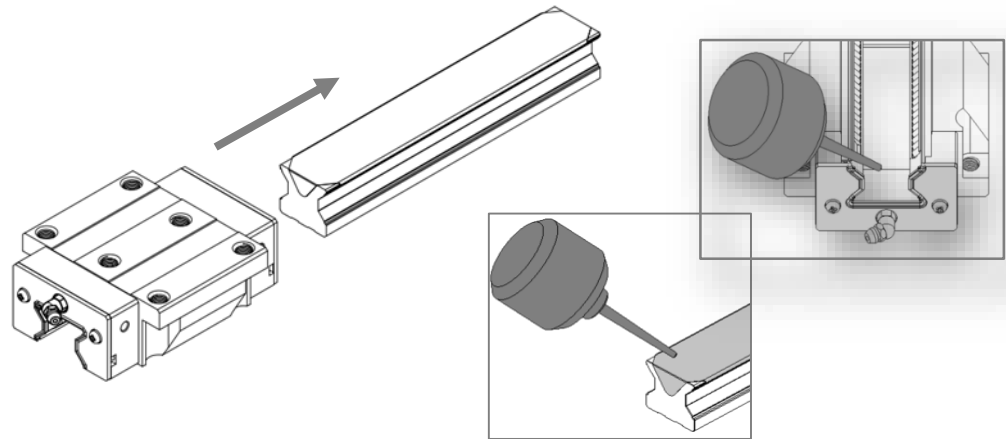
## VII. Bend cover strip end

After mounting the cover strip on rail, the two ends of cover strip needs to be bent, please use plastic/rubber mallet to gently flatten the cover strip end.



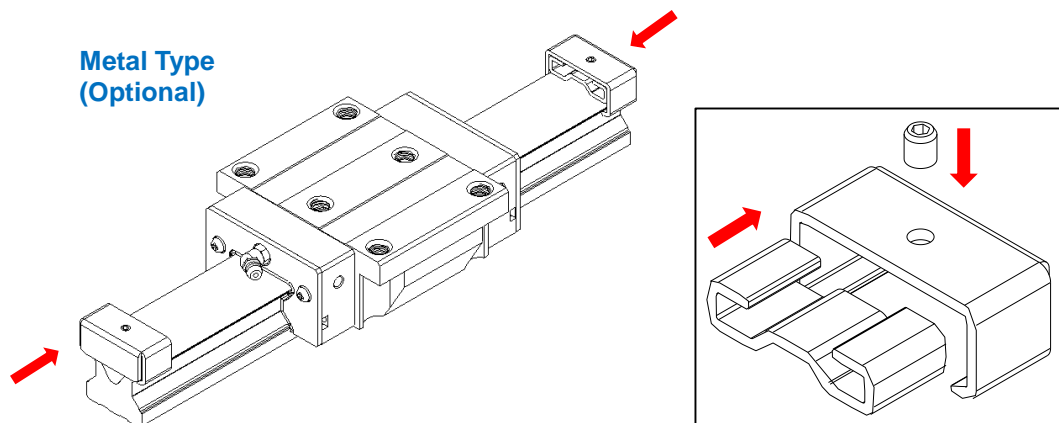
### VIII. Mount Block

Mount the block from the edge of the rail, where the bending part of cover strip is buckled. Lubricating oil / grease can be applied on surface of cover strip and end seal of block to avoid damaging the end seal.

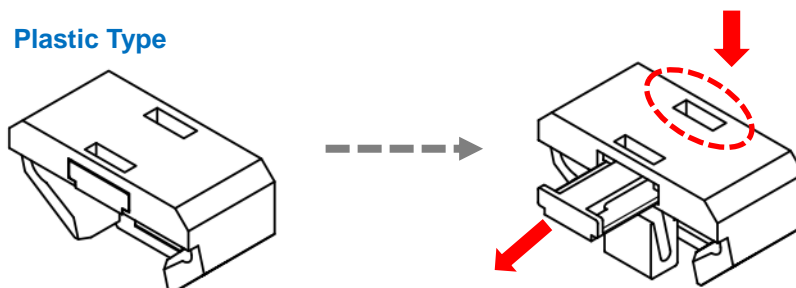


### IX. Mount end jig

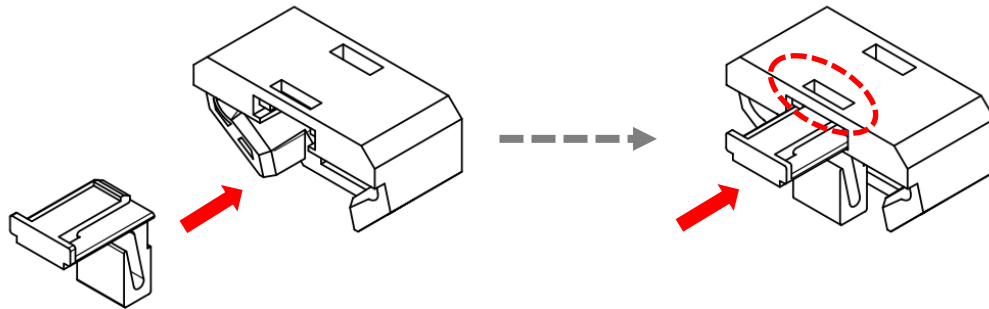
In order to prevent the cover strip separating from the rail or slipping movement on the rail, please assemble the end jig on both end of rail.



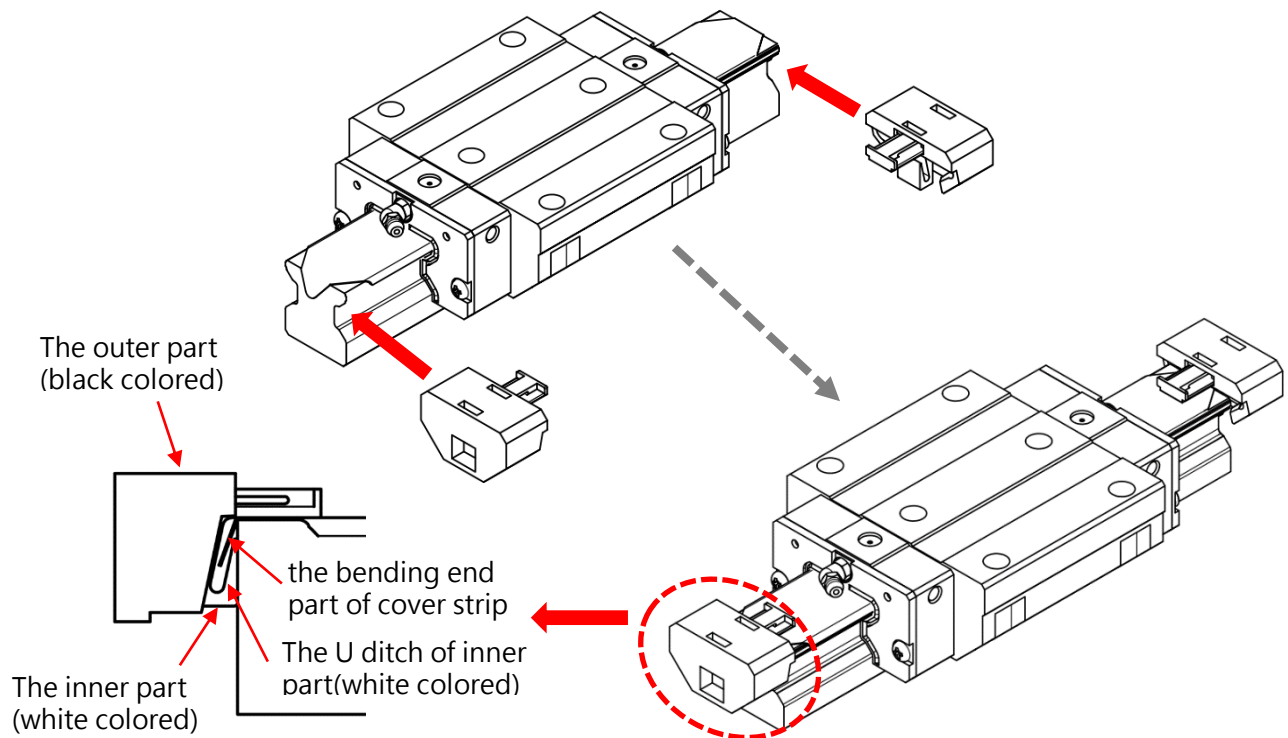
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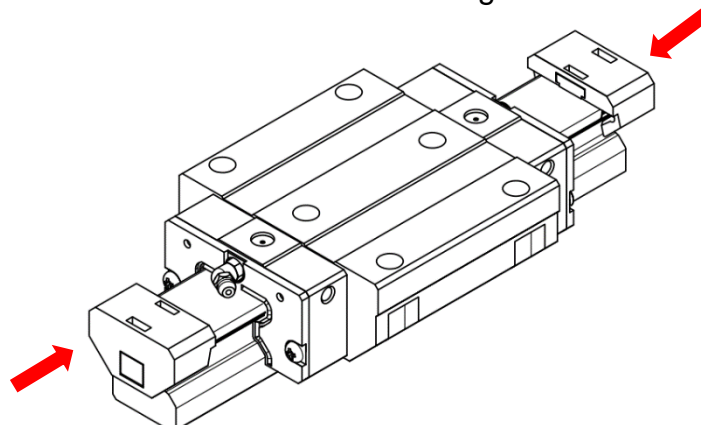
2. When the outer and inner parts are separated, put inner part slightly engaged in the outer part. Please refer to the below drawing.



3. Put the end jig on both ends of the rail, put the end of cover strip inside the U shape ditch of inner part. Please refer to the below drawing.

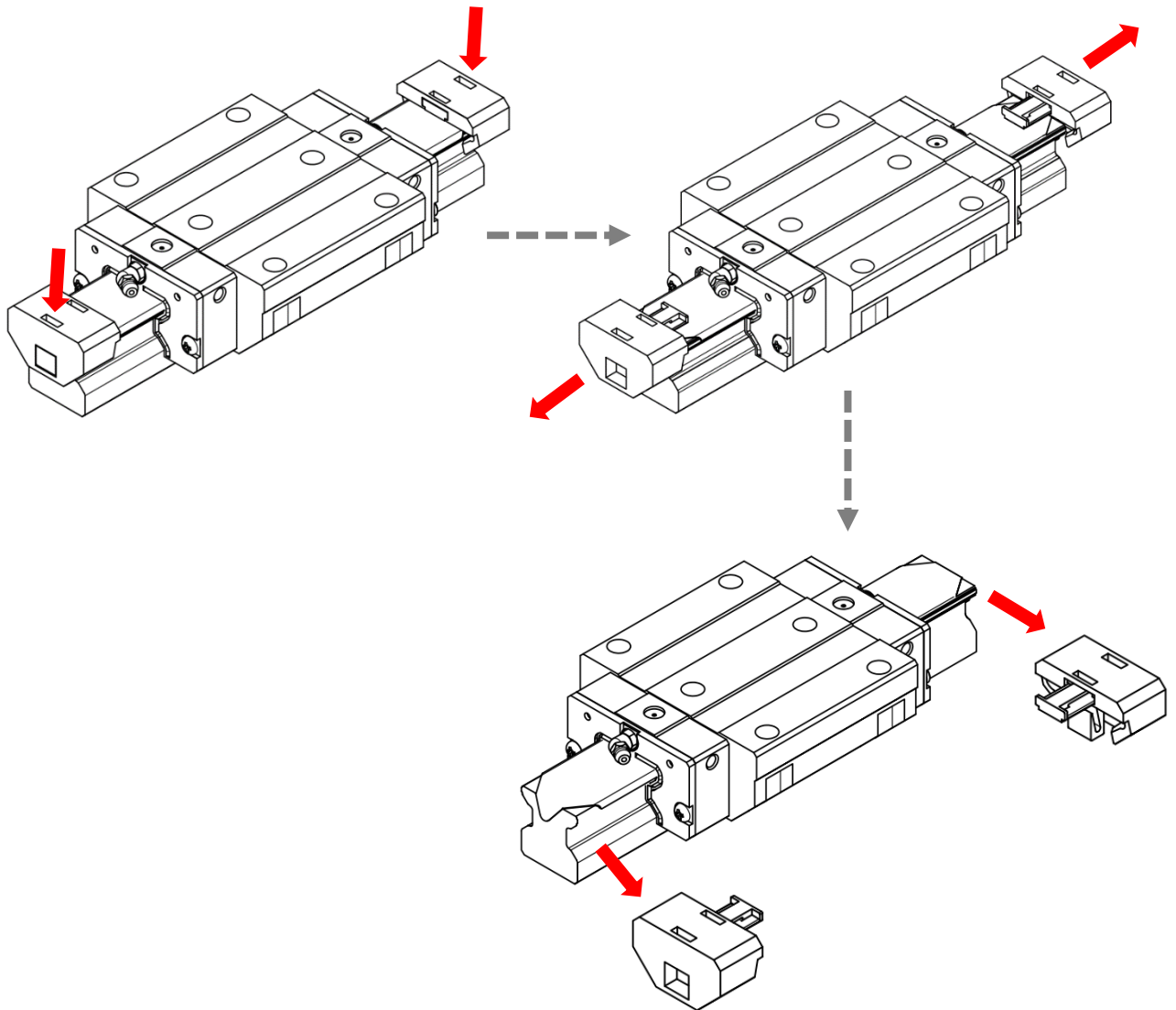


4. Push outer parts toward the end surface of the rail, then it will be fixed with inner part. Please refer to the below drawing.



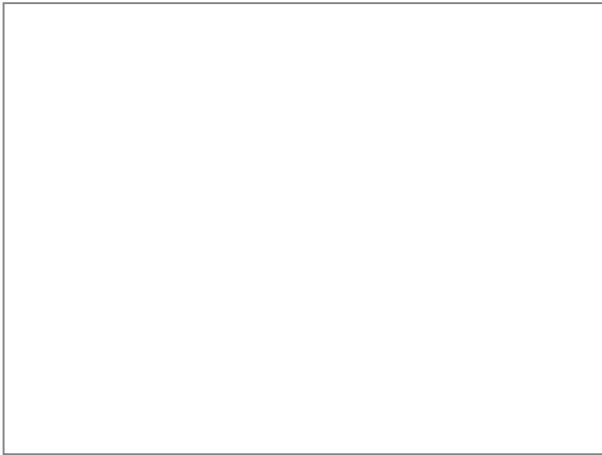
## X. Dismount the end jig

When dismounting the end jig, using "-"(flat) type screw driver to push the square hole on the top of outer parts (black colored). then the outer part and inner part will be separated. Move outer part backward until inner part reach the 2nd square hole. Then move the end jig to the side. Please refer to the below drawing.



### Cautions:

3. Do not use hammer to tap the end jig while mounting.
4. When dismounting the end jig, please use the tool and follow the instruction.  
Dismounting or pulling the end jig's outer part with force or pulling the cover strip without using the tool, may damage and deform the cover strip's end rim or the inner part component.



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