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**Overseas Web**

## Installation Guide and Precautions

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Please read the Installation Guide and Precautions before using the product. And keep this manual for further reference.

## Catalogue

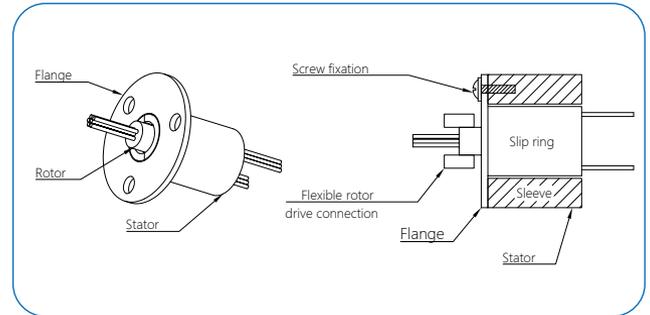
LPC/LPM/LPMS Capsule Slip Rings Installation Guide and Precautions	2
LPS Separate Slip Rings Installation Guide and Precautions	5
LPR Pin Slip Rings Installation Guide and Precautions	7
LPKS Pancake Slip Rings Installation Guide and Precautions	9
LPK/LPT Slip Rings Installation Guide and Precautions	11
LPT Through-bore Slip Rings Installation Guide and Precautions	13
LPT with Flange on Rotor Installation Guide and Precautions	15
LPT with Flange on Stator Installation Guide and Precautions	17
LPT End Face with Mounting Holes Installation Guide and Precautions	19
Pneumatic-Hydraulic-Electric Rotary Joints Installation Guide and Precautions	21
LPHF-01H Rotary Joints Installation Guide and Precautions	23
LPHF-02A Rotary Joints Installation Guide and Precautions	24
LPFO-01G Rotary Joints Installation Guide and Precautions	25
LPFO-07C Rotary Joints Installation Guide and Precautions	26

## LPC/LPM/LPMS with Flange Installation Guide

1. Install the stator side of the slip ring first. Mount the stator to the flange of the slip ring housing with screws. Ensure its axiality tolerance is within  $\pm 0.1\text{mm}$ .

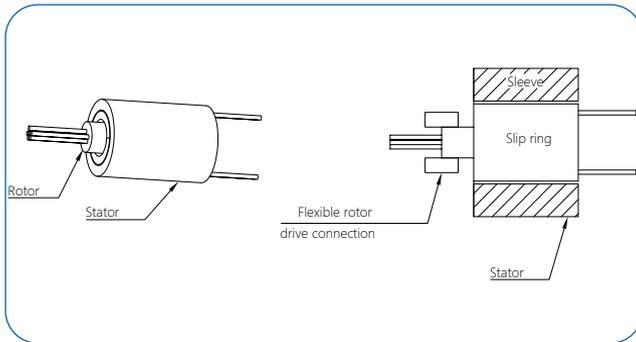
2. Then install the rotor side. Connect it with the drive shaft using screws or through aligning the flat positions and make sure their concentricity.

3. Adjust the concentricity of the whole slip ring unit to ensure smooth operation.



## LPC/LPM/LPMS without Flange Installation Guide

1. Install the static end of the slip ring first. Mount the static end to the slip ring housing with screws. Make sure its axiality tolerance is within  $\pm 0.1\text{mm}$ .
2. Then install the rotor end. Connect it with the drive shaft using screws or through aligning the flat positions and make sure their concentricity.
3. Adjust the concentricity of the whole slip ring unit to ensure smooth operation.

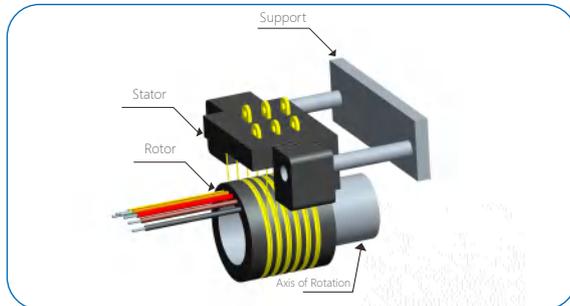


## LPC/LPM/LPMS Capsule Slip Rings Precautions

1. Keep wires intact during installation to avoid any poor performances due to damage of the wire insulating layers.
2. Avoid rigid connection between the rotor and the stator. Adopt flexible connection between the two parts to allow concentric drive.
3. Stabilize the screws with locking measures to avoid loosening and dropping due to vibrations and shocks during operation.
4. The slip ring cannot bear the weight of its connected equipment. Also, wires should be free from extra pull and weight.
5. If wire leads of the rotor side are intended for providing drive to the rotation, please consult with our technical team to avoid damages to the leads.
6. Do not disassemble the inner parts of the slip ring. If any problem occurs, please consult our customer service.

## LPS Separate Slip Rings Installation Guide

1. Install the static end of the separate slip ring first. Apply two screws to secure the stator end to the mounting holes on the slip ring stator. Make sure it is installed according to the designed center. Also, the distance between center line and mounting holes should be consistent. Ensure its axial tolerance is within  $\pm 0.1\text{mm}$ .
2. Then install the rotor side of the slip ring. Insert the drive shaft through the central hole in the rotor and secure it with adhesive and screws, etc.
3. Adjust the concentricity and height of the separate slip ring. Make sure the stator brush wires on both sides have good contact with the rotor rings grooves. Ensure each brush wire is in the middle of the groove by direct eye observation. Avoid deviation from the groove. Make further adjustments after operational test to guarantee smooth functioning.

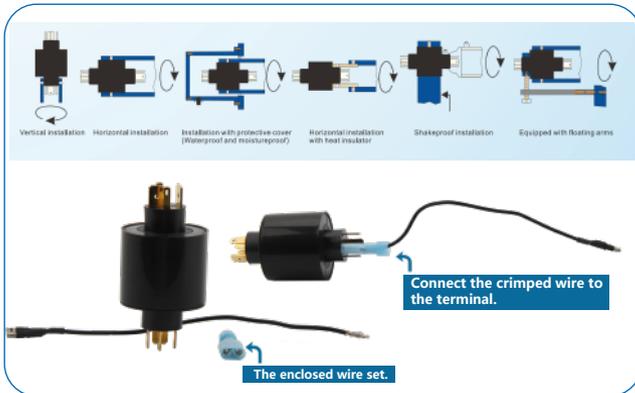


## LPS Separate Slip Rings Precautions

1. Keep wires intact during installation to avoid any poor performances due to damage of the wire insulating layers.
2. Avoid rigid connection between the rotor and the stator. Adopt flexible connection between the two parts to allow concentric drive.
3. Stabilize the screws with locking measures to avoid loosening and dropping due to vibrations and shocks during operation.
4. The slip ring cannot bear the weight of its connected equipment. Also, wires should be free from extra pull and weight.
5. If wire leads of the rotor side are intended for providing drive to the rotation, please consult with our technical team to avoid damages to the leads.
6. Do not disassemble the inner parts of the slip ring. If any problem occurs, please consult our customer service.

## LPR Pin Slip Rings Installation Guide

- 1.Install the stator of the slip ring first. Mount the stator of the slip ring housing with screws. Ensure its axiality deviation is within  $\pm 0.1\text{mm}$ .
- 2.Then install the rotor side. Connect it with the drive shaft using screws or through aligning the flat positions and make sure their concentricity.
- 3.Adjust the concentricity of the whole slip ring unit to ensure smooth operation.
- 4.If wires for external connection are needed, each slip ring unit will be accompanied by a wire set upon request.

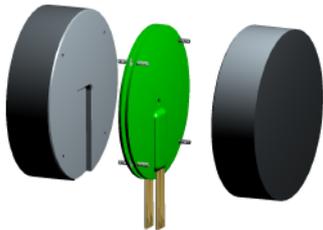


## LPR Pin Slip Rings Precautions

- 1.Stabilize the screws with locking measures to avoid loosening and dropping due to vibrations and shocks during operation.
- 2.The slip ring should not bear the weight of the connected application nor radial loads.
- 3.Do not disassemble the inner parts of the slip ring. If any problem occurs, please consult our customer service.

## LPKS Pancake Slip Rings Installation Guide

- 1.Install the rotor side of the slip ring first. Secure the rotor side PCB board onto the flange of the device with screws. Through outer diameter or inner diameter aligning, ensure the concentricity between the PCB board and the flange.
- 2.Then install the stator side of the slip ring. Secure the stator side PCB board onto the flange of the device with screws.
- 3.Adjust the concentricity of the slip ring unit. The brush shrapnel contacts on the stator side must be adjusted to the center of the rotor side ring to ensure the coaxiality between the slip ring and the device. Ensure the axiality deviation is within  $\pm 0.1\text{mm}$ .
- 4.Adjust the distance between the two PCB boards. The distance between the stator side PCB board and the rotor side PCB board is within  $L (+0.1/+0.3)$  mm.



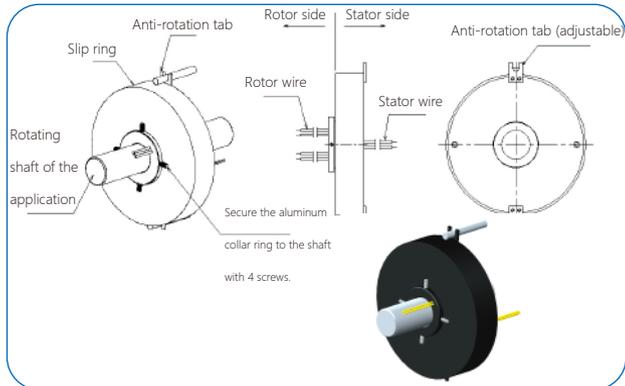
## LPKS Pancake Slip Rings Precautions

- 1.Keep wires intact during installation to avoid any poor performances due to damage of the wire insulating layers.
- 2.While welding the stator side with wires, make sure the solder joints are consistent in size and with proper distance. Do not apply excessive solder.
- 3.Stabilize the screws with locking measures to avoid loosening and dropping due to vibrations and shocks during operation.
- 4.The slip ring should not bear the weight of the connected application. The wires should be free from extra pull and weight.
- 5.Do not disassemble the inner parts of the slip ring. If any problem occurs, please consult our customer service.



## LPK/LPT Installation Guide

1. Install the rotor side of the slip ring first. Insert the drive shaft through the through-hole of the slip ring, the rotor and secure it with adhesive and screws, etc. Put it through the mounting hole on the rotor side and ensure its concentricity with hole. Secure the part.
2. Then install the stator side of the slip ring. Insert the anti-rotation pin of the device into the U slot in anti-rotation tab. Allow flexibility, adopt flexible connection instead of rigid connection to ensure longer life span of the slip ring.
3. Adjust the concentricity of the whole slip ring unit to ensure smooth operation.

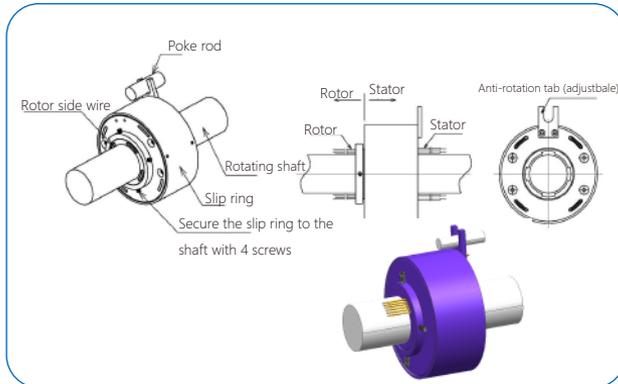


## LPK/LPT Precautions

1. Keep wires intact during installation to avoid any poor performances due to damage of the wire insulating layers.
2. Allow flexibility, adopt flexible connection instead of rigid connection.
3. Stabilize the screws with locking measures to avoid loosening and dropping due to vibrations and shocks during operation

## LPT Through-bore Slip Rings Installation Guide

1. Arrange wires of the rotor side and the stator side before installation. Stabilize the slip ring on the rotating shaft. Adjust the position of the shaft and the mounting hole and use 4 screws on the rotor side to fasten the components. Ensure the concentricity between the shaft and the slip ring before fixing the screws,
2. Insert the poke rod in the U slot of the anti-rotation tab. Meanwhile, arrange the wires to avoid twining with the rotor.
3. Slip rings are precise electronic components. Take protection measures in case of harsh environment or apply slip rings with higher protection level.

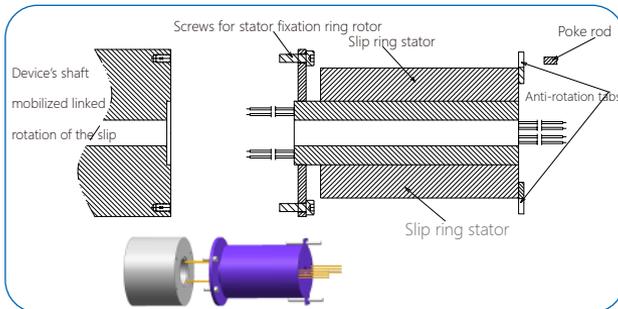


## LPT Through-bore Slip Rings Precautions

1. The slip ring cannot bear the weight of its connected equipment. Also, wires should be free from extra pull and weight.
2. Keep wires intact during installation to avoid any poor performances due to damage of the wire insulating layers.
3. Adopt flexible connection instead of rigid connection between the rotor side and the stator side to ensure longer life span of the slip ring.
4. Stabilize the screws with locking measures to avoid loosening and dropping due to vibrations and shocks during operation.

## LPT with Flange on Rotor Installation Guide

1. Arrange the wires of the rotor side before installation. Place the rotor side flange on the device's flange, align the mounting holes respectively and stabilize the two parts. Ensure the concentricity between the slip ring and the rotating shaft through rotation test. Fix the two flanges with screws.
2. On the stator side, apply two poke rods in the U slot of the anti-rotation tab. Allow flexibility, adopt flexible connection instead of rigid connection to ensure longer life span of the slip ring.
3. The stator and rotor can switch sides according to actual requirements.
4. Slip rings are precise electronic components. Take protection measures in case of harsh environment or apply slip rings with higher protection level.

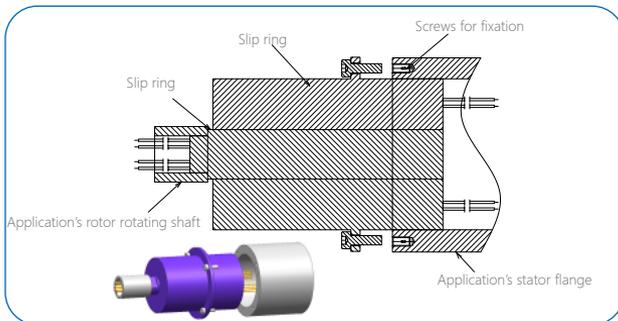


## LPT with Flange on Stator Precautions

1. The slip ring should not bear the weight of the connected application. The wires should be free from extra pull and weight.
2. Leave enough space in both sides for wire exit. Meantime keep wires from scratching. Arrange wires with certain distance to avoid poor performance due to interference during rotation.
3. Adopt flexible connection instead of rigid connection between the rotor side and the stator side to ensure longer life span of the slip ring.
4. Stabilize the screws with locking measures to avoid loosening and dropping due to vibrations and shocks during operation.

## LPT with Flange on Stator Installation Guide

1. Arrange the wires on the rotor side before installation. Assemble the convex part of the slip ring rotor with the wires through the device's rotating shaft hole. Align the flat positions of the shaft with the two mounting holes on the application's shaft (clearance fit). Adjust the assembly to allow linked rotation.
2. On the slip ring's stator side, align the slip ring sleeve with the application's shaft. Secure the inner part of the stator flange to the flat positions of the application. Align the mounting holes and make proper fixation. Ensure the concentricity between the shaft and the slip ring before fixing the screws.
3. The stator and rotor can switch sides according to actual requirements.
4. Slip rings are precise electronic components. Take protection measures in case of harsh environment or apply slip rings with higher protection level.

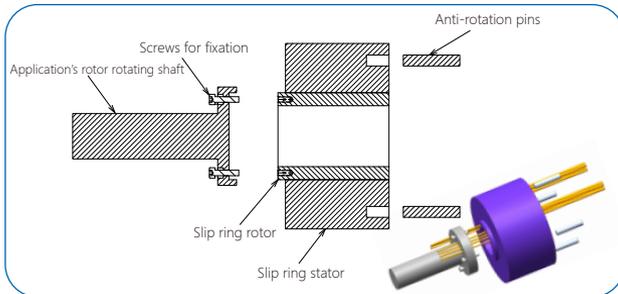


## LPT with Flange on Stator Precautions

1. The slip ring should not bear the weight of the connected application. The wires should be free from extra pull and weight.
2. Leave enough space in both sides for wire exit. Meantime keep wires from scratching. Arrange wires with certain distance to avoid poor performance due to interference during rotation.
3. Adopt flexible connection instead of rigid connection between the rotor side and the stator side to ensure longer life span of the slip ring.
4. Stabilize the screws with locking measures to avoid loosening and dropping due to vibrations and shocks during operation.

## LPT End Face with Mounting Holes Installation Guide

1. Arrange the wires on the rotor side before installation. Secure the rotor flange to the flat positions of the application flange. Align the mounting holes of the two flanges and make proper fixation. Ensure the concentricity between the shaft and the slip ring before fixing the screws.
2. Apply 2~4 anti-rotation rods (evenly laid) to the mounting holes of the slip ring stator. Allow flexibility (flexible connection) instead of fix connection to guarantee longer life span of the slip ring.
3. The stator and rotor can switch sides according to actual requirements.
4. Slip rings are precise electronic components. Take protection measures in case of harsh environment or apply slip rings with higher protection level.

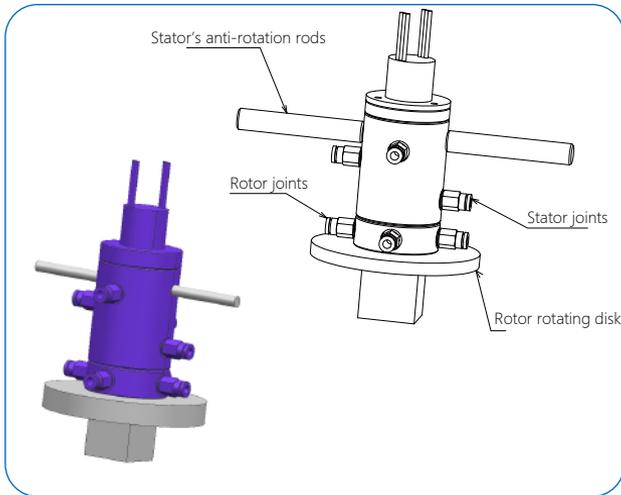


## LPT End Face with Mounting Holes Precautions

1. The slip ring should not bear the weight of the connected application. The wires should be free from extra pull and weight.
2. Leave enough space in both sides for wire exit. Meantime keep wires from scratching. Arrange wires with certain distance to avoid poor performance due to interference during rotation.
3. Adopt flexible connection instead of rigid connection between the rotor side and the stator side to ensure longer life span of the slip ring. Stabilize the screws with locking measures to avoid loosening and dropping due to vibrations and shocks during operation.

## Pneumatic-Hydraulic-Electric Integrated Rotary Joints Installation Guide

1. Correspond the rotary joint installation position with the application. Prior to installation, rotor side should be connected to air hose with intact sealing and make sure there is no gas/liquid leakage.
2. Adjust the rotor's concentricity before fixation to ensure smooth operation of the rotary joint.
3. Mount the anti-rotation rods into the mounting holes of the stator to realize anti rotation. Can be customized upon request.



## Pneumatic-Hydraulic-Electric Integrated Rotary Joints Precautions

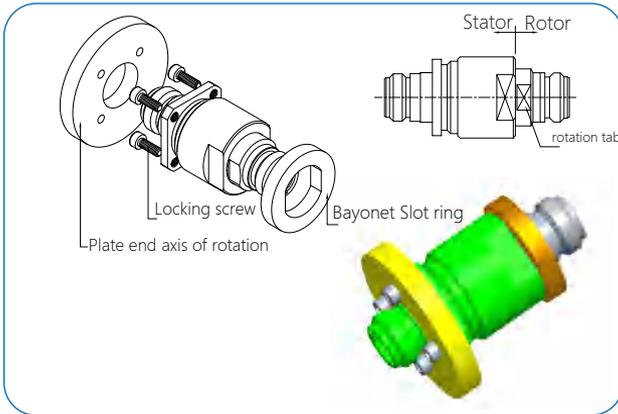
1. Avoid impact and dropping during transportation and storage to prevent damages to the joints and inner parts.
2. Adopt locking measures for the fixation bolts.
3. When installing the screw joints and rotary joints, ensure the thread patterns of both the inner and outer hose are consistent with the rotating direction of the roller. The thread patterns of the inner and outer hose should be consistent, too.
4. The entry and exit of the rotary joint should be directly connected with the flexible hose if possible. Medium should be flited before entering the rotary joint to ensure longer life span of the component.
5. The support and anti-rotation of the rotary joint should be appropriate. Generally, a certain flexibility between the anti-rotation rod and the fix part should be maintained.

## LPHF-01H Installation Guide

1. When installing the rotary joint, process the mounting holes on the stator side and rotor side according to the recommended size.
2. Install the rotary joint's rotor side first. Lock the milling surface of the rotor side in the mounting bar of the rotor.
3. Then install the rotary joint's stator side. Attach the stator mounting plate on the flange. Apply screws to secure the stator side flange. Secure the mounting plate to the application.
4. Adjust the concentricity of the rotary joint. Rotate the rotor side and ensure smooth operation of the unit. Ensure the axiality deviation between the rotary joint and the

### Precautions:

1. Leave enough space between the rotor and stator to avoid squeezing of the two parts.
2. Stabilize the screws with locking measures to avoid loosening and dropping due to vibrations and shocks during operation.

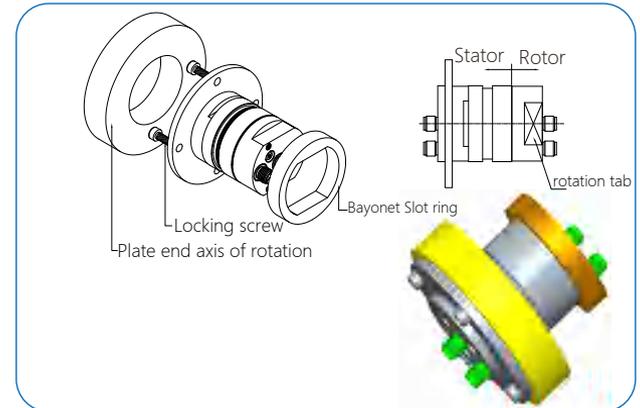


## LPHF-02A Installation Guide

1. When installing the rotary joint, process the mounting holes on the stator side and rotor side according to the recommended size.
2. Install the rotary joint's rotor side first. Lock the milling surface of the rotor side in the mounting bar of the rotor.
3. Then install the rotary joint's stator side. Align the stator flange with the relative mounting holes and secure the stator flange to the applications with screws.
4. Adjust the concentricity of the rotary joint. Rotate the rotor side and ensure smooth operation of the unit. Ensure the axiality deviation between the rotary joint and the

### Precautions:

1. Leave enough space between the rotor and stator to avoid squeezing of the two parts.
2. Stabilize the screws with locking measures to avoid loosening and dropping due to vibrations and shocks during operation.

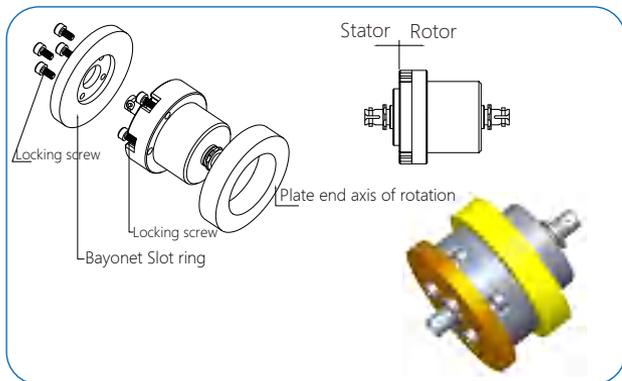


## LPFO-01G Installation Guide and Precautions

1. When installing the rotary joint, process the mounting holes on the stator side and rotor side according to the recommended size.
2. Install the rotary joint's rotor side first. Secure the rotor side to the mounting plate of the rotor with screws. Secure the stator flange to the application with screws.
3. Then install the rotary joint's stator side. Mount the 4 screws to the stator mounting bar and align them with the stator side mounting holes. Secure the plate to the application.
4. Adjust the concentricity of the rotary joint. Rotate the rotor side and ensure smooth operation of the unit. Ensure the axiality deviation between the rotary joint and the application is within  $\pm 0.1\text{mm}$ .

### Precautions

1. Leave enough space between the rotor and stator to avoid squeezing of the two parts.
2. Stabilize the screws with locking measures to avoid loosening and dropping due to vibrations and shocks during operation.



## LPFO-07C Installation Guide

1. When installing the rotary joint, process the mounting holes on the stator side and rotor side according to the recommended size.
2. Install the rotary joint's rotor side first. Secure the rotor side to the mounting plate of the rotor with screws. Secure the stator flange to the application with screws.
3. Then install the rotary joint's stator side. Then assemble the convex of the stator mounting bar with the stator side slot. Secure the plate to the application.
4. Adjust the concentricity of the rotary joint. Rotate the rotor side and ensure smooth operation of the unit. Ensure the axiality deviation between the rotary joint and the application is within  $\pm 0.1\text{mm}$ .

### Precautions:

1. Leave enough space between the rotor and stator to avoid squeezing of the two parts.
2. Stabilize the screws with locking measures to avoid loosening and dropping due to vibrations and shocks during operation.

