



## Miniature Capsule Slip Rings



## ● Features

- ⊗ Military standard surface processing /Precise/Gold-to-gold contact/  
Low resistance/Long service life
- ⊗ Compact size/Gold-to-gold contact/Low resistance/Long service life/  
Integrate multifarious signals
- ⊗ Ultra compact size/Precise design/Military-standard material /Low resistance

## ● Applications:

- ⊗ Robot vacuum
- ⊗ Rocker camera
- ⊗ Petrol and mine platforms
- ⊗ Testing equipment
- ⊗ Electrical testing equipment
- ⊗ Medical instruments
- ⊗ Intelligent Robots
- ⊗ Commercial UAV
- ⊗ Manual stabilizer
- ⊗ VR devices



## ● Selection table

| LPC Capsule Slip Rings Series |          |        |            |                 |            |
|-------------------------------|----------|--------|------------|-----------------|------------|
| Model                         | Circuits | OD(mm) | Length(mm) | Voltage (AC/DC) | Current(A) |
| LPC-06                        | 6        | φ22    | 19.2       | 240V            | 2A         |
| LPC-08YS                      | 8        | φ22    | 21.4       | 240V            | 2A         |
| LPC-12                        | 12       | φ22    | 26.4       | 240V            | 2A         |
| LPC-15YS                      | 15       | φ22    | 34         | 240V            | 2A         |
| LPC-18                        | 18       | φ22    | 32.9       | 240V            | 2A         |
| LPC-24                        | 24       | φ22    | 42.3       | 240V            | 2A         |
| LPC-30                        | 30       | φ22    | 49.8       | 240V            | 2A         |
| LPC-36                        | 36       | φ22    | 57.3       | 240V            | 2A         |
| LPC-56                        | 56       | φ25    | 85.7       | 240V            | 2A         |
| LPC-76                        | 76       | φ35.5  | 105.7      | 240V            | 2A         |
| LPC-125                       | 125      | φ54    | 286        | 240V            | 2A         |

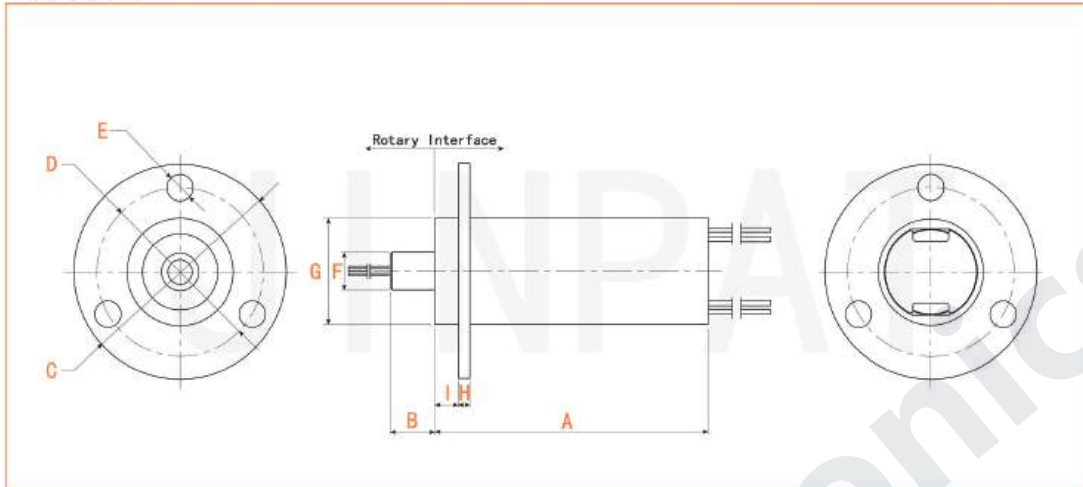
## ● Selection table

| <b>LPM Miniature Capsule Slip Rings Series</b>        |                 |               |                   |                        |                   |
|-------------------------------------------------------|-----------------|---------------|-------------------|------------------------|-------------------|
| <b>Model</b>                                          | <b>Circuits</b> | <b>OD(mm)</b> | <b>Length(mm)</b> | <b>Voltage (AC/DC)</b> | <b>Current(A)</b> |
| LPM-04                                                | 4               | φ12.5         | 15.6              | 240V                   | 1-2A              |
| LPM-06                                                | 6               | φ12.5         | 18.2              | 240V                   | 1-2A              |
| LPM-12                                                | 12              | φ12.5         | 25.2              | 240V                   | 1-2A              |
| LPM-18                                                | 18              | φ15.5         | 40                | 240V                   | 1-2A              |
| LPM-24                                                | 24              | φ15.5         | 39.7              | 240V                   | 1-2A              |
| LPM-30                                                | 30              | φ16           | 37                | 240V                   | 1-2A              |
| <b>LPMS Super Miniature Capsule Slip Rings Series</b> |                 |               |                   |                        |                   |
| <b>Model</b>                                          | <b>Circuits</b> | <b>OD(mm)</b> | <b>Length(mm)</b> | <b>Voltage (AC/DC)</b> | <b>Current(A)</b> |
| LPMS-04                                               | 4               | φ7.9          | 10.8              | 24V                    | 1A                |
| LPMS-05                                               | 5               | φ5.5          | 9.6               | 24V                    | 1A                |
| LPMS-06                                               | 6               | φ7.9          | 11.2              | 24V                    | 1A                |
| LPMS-08                                               | 8               | φ8.4          | 11.7              | 24V                    | 1A                |
| LPMS-10                                               | 10              | φ10           | 13.6              | 24V                    | 1A                |
| LPMS-12                                               | 12              | 11            | 24                | 24V                    | 1A                |

## ● Product Dimension Drawing

### JINPAT

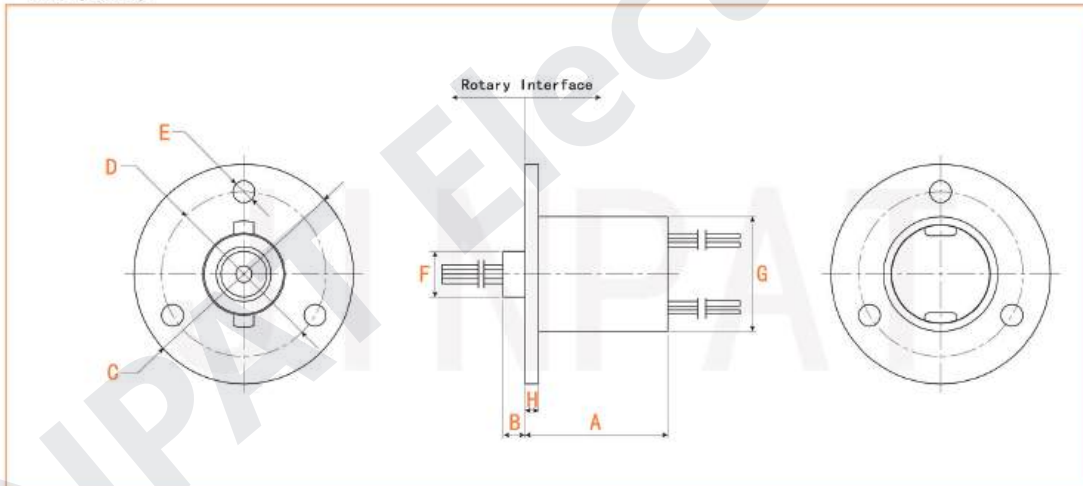
#### LPC SERIES



Rotating interface: The point where the rotating part meets the stationary part.

### JINPAT

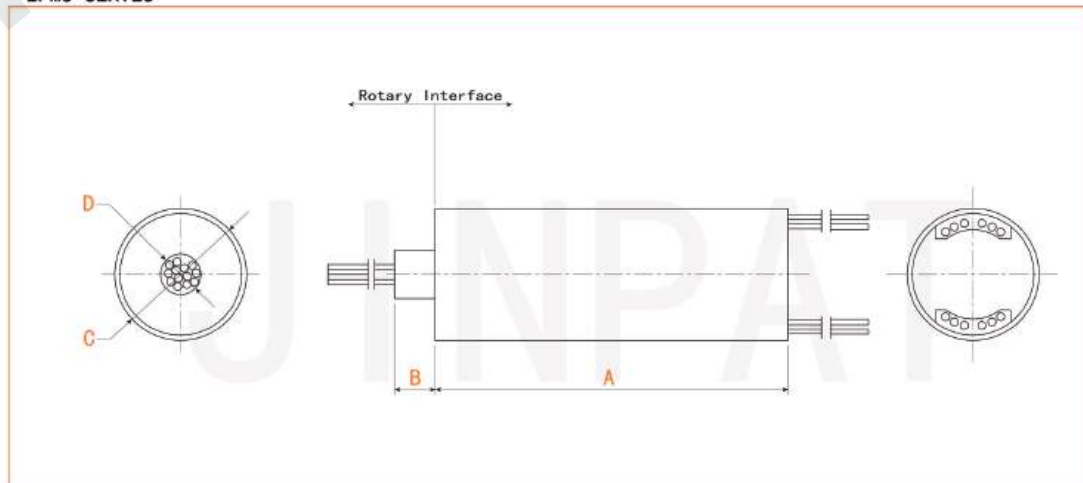
#### LPM SERIES



Rotating interface: The point where the rotating part meets the stationary part.

### JINPAT

#### LPMS SERIES



Rotating interface: The point where the rotating part meets the stationary part.

## ● Features

- ⊗ Pin contact instead of wire contact
- ⊗ Transmit power and signal
- ⊗ Smooth function
- ⊗ Low contact resistance
- ⊗ Easy to install

Option:

- ⊗ Rotating speed
- ⊗ Number of circuits
- ⊗ Current capacity
- ⊗ Housing material

Application:

- ⊗ Wind generators
- ⊗ Rotating platform
- ⊗ Cable reel and hot roller
- ⊗ Production line equipment



## ● Technical specification parameters

| Electrical & Electronics   |                           | Mechanical       |                                             | Environmental    |                                                  |
|----------------------------|---------------------------|------------------|---------------------------------------------|------------------|--------------------------------------------------|
| Number of Circuits         | 2/4/6/8                   | Rotating Speed   | 0-300rpm or higher                          | Temperature      | Industrial: -40°C~+80°C<br>Military: -50°C~+80°C |
| Current                    | 2A/5A/14A/<br>15A/20A/25A | Contact Material | Engineering plastics<br>/ Metals (optional) | Humidity         | 60%RH or higher                                  |
| Voltage                    | 0-240VAC/DC               | Housing Material | Engineering plastics<br>/ Metals (optional) | Protection Grade | IP40 or higher                                   |
| Dielectric Strength        | ≥500VAC@50Hz              | Torque           | ≤0.88 g.m                                   | Others           |                                                  |
| Insulation Resistance      | ≥500MΩ@500VDC             | Wire Type        | /                                           | Life Span        | Customizable                                     |
| Dynamic Contact Resistance | 1mΩ min.                  | Wire Length      | /                                           |                  |                                                  |

## ● Selection table

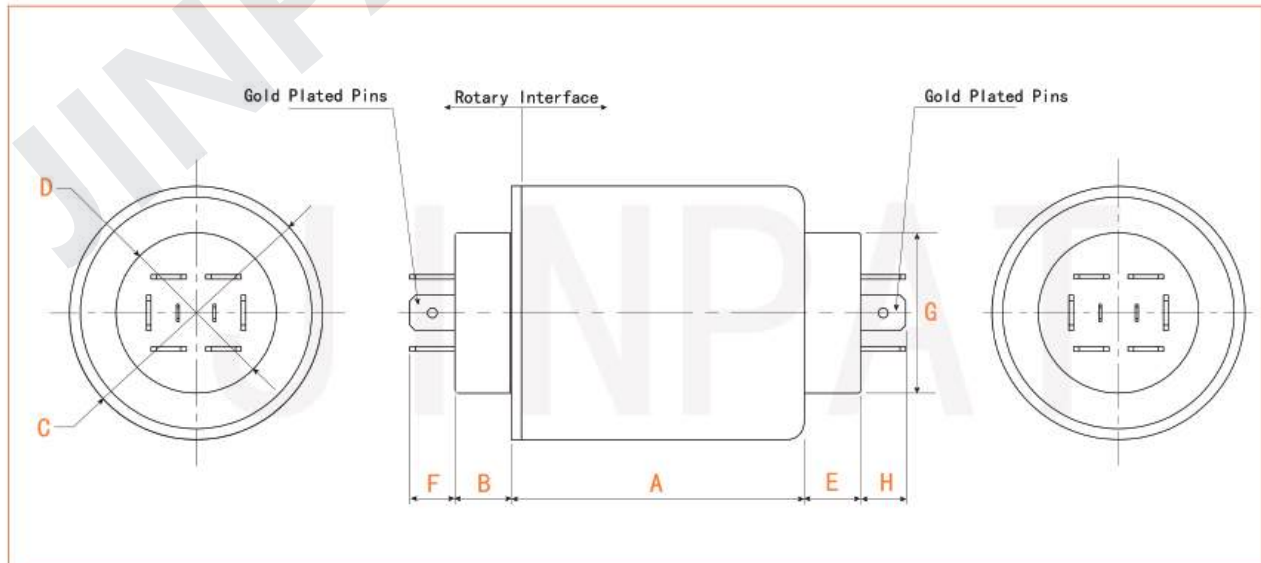
| Pin Connection Slip Rings |                    |                 |                                 |                |                           |                              |                       |                           |                         |                        |
|---------------------------|--------------------|-----------------|---------------------------------|----------------|---------------------------|------------------------------|-----------------------|---------------------------|-------------------------|------------------------|
| Model                     | Number of Circuits | Voltage (AC/DC) | Current(A)                      | OD*Length (mm) | Rotor Outer Diameter (D1) | Pin Base Outer Diameter (D2) | Rotor Pin Length (L1) | Rotor Exposed Length (L2) | Stator Base Length (L3) | Stator Pin Length (L4) |
| LPR-2                     | 2                  | 240V            | 2circuits* 15A                  | φ32*28.6       | φ16                       | φ16                          | 8                     | 9.8                       | 9                       | 8                      |
| LPR-3                     | 3                  | 240V            | 2circuits* 15A                  | φ32*28.6       | φ16                       | φ16                          | 8                     | 9.8                       | 9                       | 8                      |
| LPR-4                     | 4                  | 240V            | 2circuits* 5A<br>2circuits* 15A | φ32*28.6       | φ16                       | φ16                          | 8                     | 9.8                       | 9                       | 8                      |
| LPR-6                     | 6                  | 240V            | 6circuits* 20A                  | φ45*64.5       | φ29                       | φ29                          | 8                     | 10                        | 10                      | 8                      |
| LPR-8                     | 8                  | 240V            | 6circuits* 20A<br>2circuits* 5A | φ45*64.5       | φ29                       | φ29                          | 8                     | 10                        | 10                      | 8                      |

● LPR Pin Slip Ring adopts exquisite and innovative design, and replaces wires with pins. This model complies with the RoHs standards, and is widely used in wind generators, production line equipment, rotating platform, cable reel and hot roller.

## ● Product Dimension Drawing

JINPAT

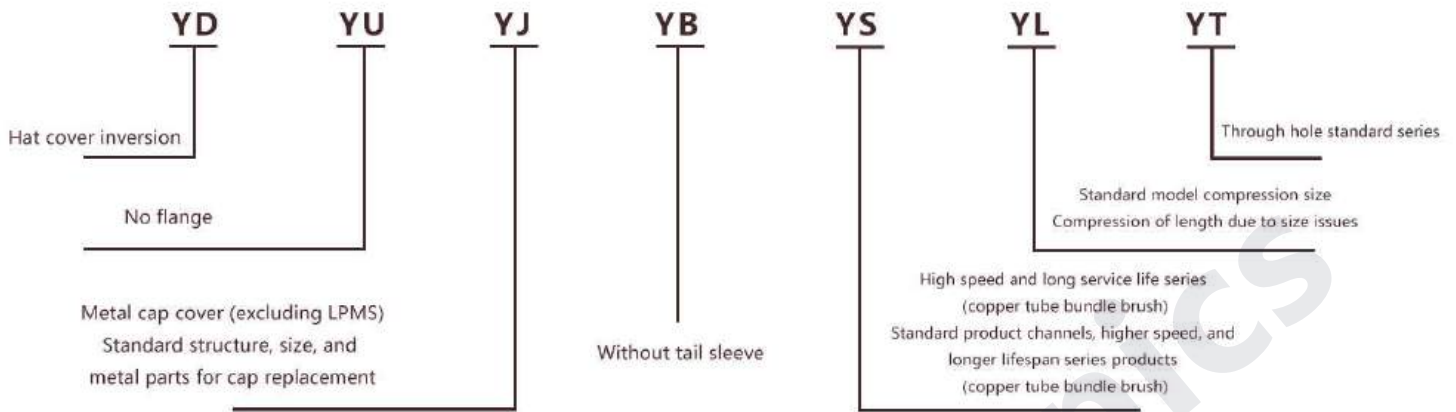
LPR SERIES



Rotating interface: The point where the rotating part meets the stationary part.

## ● Model Description

Standard series YD/YU/YJ/YB/YS/YL/YT# Explanation



## ● Customization options

Note: The following special requirements can be customized, JINPAT most of the basic accessories are standardized, modular, non-standard customization can also greatly reduce the cost and delivery time.

- 1、 Customized rotor and stator outlet and outlet length
- 2、 Due to structural limitations, can be customized in accordance with the specified length or height or external diameter
- 3、 Yasukawa, Panasonic, Siemens and other servo system signals, power lines, and encoder lines mixed slip ring
- 4、 Mixed high-speed data transmission (including Ethernet, USB, RS232, RS485, Profibus, CanBUS, CANOPEN, DeviceNET, CANBUS, CANPUS). CANOPEN, DeviceNET, CC-LINK, ProPNET, EtherCAT and other types of industrial lines).
- 5、 Anti-shock, high temperature and other special environment customization
- 6、 Can be mixed with pneumatic, hydraulic rotary joints integrated pneumatic-electrical-hydraulic slip ring
- 7、 Military grade
- 8、 Waterproof, underwater mode optional, IP65, IP68 optional