



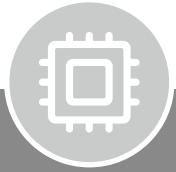
JINPAT SLIP  
RING APPLICATION

**ROBOTICS**



# Technical Capacity

## Electric



Max.500 circuits



Max.4200A



Max 10,000V



Advantage

USB3.0,10G Ethernet, HDMI, SDI,  
ProfNet, Powerlink, SercosIII,  
EtherCAT, Encoder, EtherNet/IP...

## Environment



Max.IP68



Air 7.5kPa(18000m)  
Underwater 4000m



Exd IIB T4 GB



Accelerate 18000g



-55 °C ~+250 °C

## Structure



Max.30,000rpm



370million revolutions  
2.3@2000rpm



Torque  
Min. 0.02 N.m



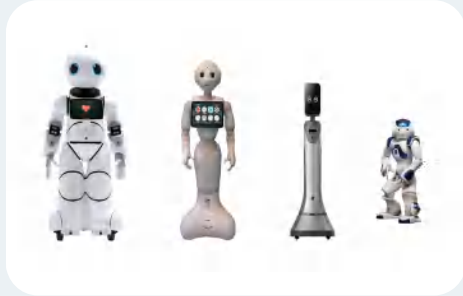
ID Max. 1m



Advantage

Integration :  
power+liquid+HF+FO

# Typical applications



Accompanying Robot



Cleaning Robot



Cooperative Robot



Exploration and  
Detection Robot

(Pipeline Detection, Nucleic Acid, Underwater)



Minesweeping Robot



Anti-Terrorism and  
Anti-Explosion Robot

# Underwater Robot

## SOLUTIONS

- LPC-0206-IP68

## TECHNICAL FEATURES

2-circuit \* 6A, working voltage: 240VAC/DC

IP68 (100 meters deep water)

Lifespan:  $\geq 10$  million revolutions



# Industrial Robot



## SOLUTIONS

- LPS-0705
- LPS-15-0602

## TECHNICAL FEATURES

Plug-in structure (separator and stator separation), suitable for different functional applications

The contact uses a snap-action structure, ensuring stable and reliable connection

Strong vibration resistance, impact resistance  $\leq 40G$

Large current-carrying current, 7 channels 5A, customized  $\geq 50A$



# Industrial Robot



## SOLUTIONS

- LPT080-0220-05S-01A
- LPT000-1610-2E2-1A
- LPT000-0415-0802-E2-01A

## TECHNICAL FEATURES

Power and signal compatible design and integrated gas

Meet various fieldbus signals, CC-Link, servo motor power, compressed air transmission

High accuracy, transmission stability, long life and customizability



# Minesweeping Robot



## SOLUTIONS

- LPM-18C-0902-05S-HD01

## TECHNICAL FEATURES

The standard products are restructured to work with the customer's equipment in a special environment, with high accuracy, and can effectively identify specific markers

Copper ring and brush wire clamp design, consistent brush pressure and reliable contact

Video integrated serial port signal, precious metal material, stable performance, smooth operation



# Anti-terrorism and Anti-riot Robot



## SOLUTIONS

- LPT030-0305-17S

## TECHNICAL FEATURES

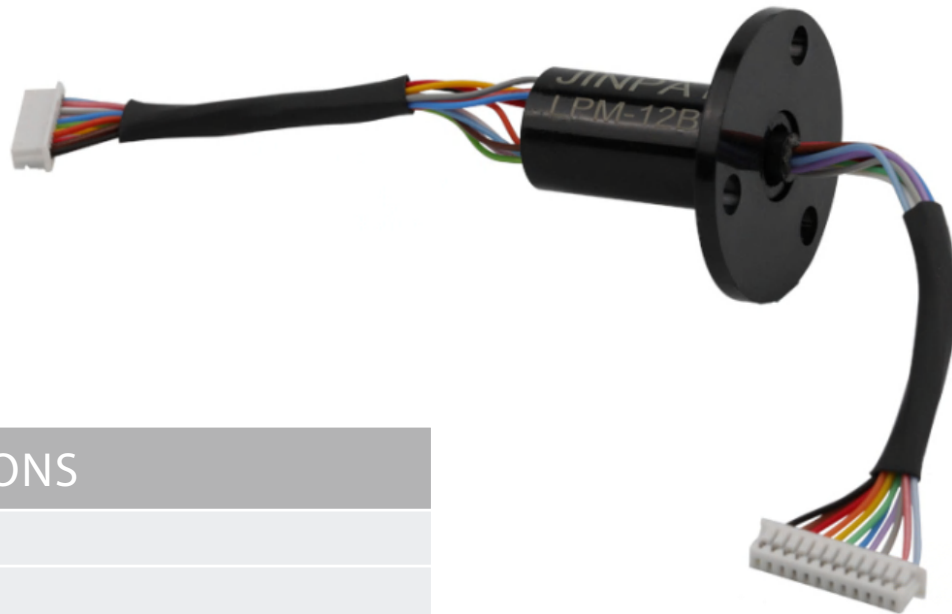
Precise transmission of metal-to-metal contact signal, power and signal compatible design

Anti-shock, military coating technology, precious metal contact, long lifespan and maintenance-free (up to 200 million revolutions)





# Pipeline Detection Robot



## SOLUTIONS

- LPM-12B
- LPMS-04C

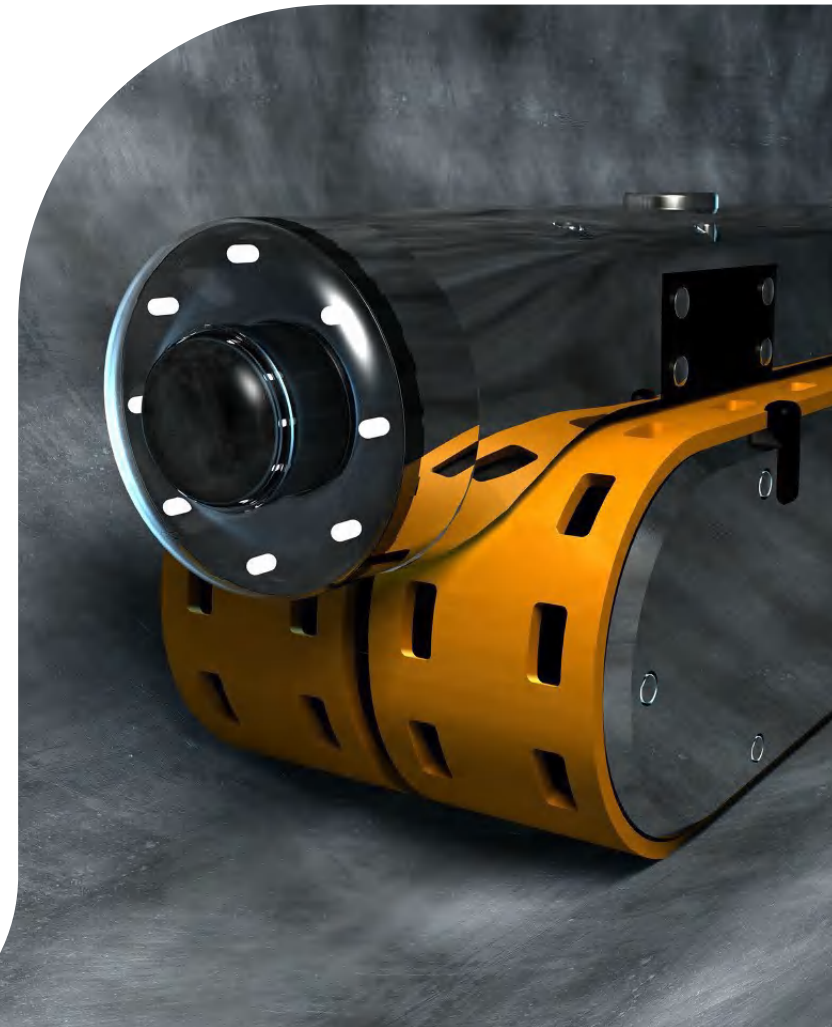
## TECHNICAL FEATURES

Small size (the min. outer diameter can be

Stable performance, high precision bearing, smooth and quiet operation

The signal such as video and network signal can be modified to meet the special requirements of high and low temperature resistance, without packet loss and low bit error rate

Long-life maintenance-free



# Intelligent Robot



## SOLUTIONS

- LPM-04A
- LPMS-05D
- LPM-0210-0102-02E2-09S

## TECHNICAL FEATURES

Low torque ( $\leq 0.88g \cdot m$ ) standard flange is accurately installed and positioned, and the line length can be customized

Precious metal contact, extremely low contact resistance and stable fluctuation value (up to  $1m \Omega$  at least), suitable for weak current and signal



# Sweeping Robot

## SOLUTIONS

- LPC-06AU
- LPM-04B(0)

## TECHNICAL FEATURES

Ultra-hard gold-plated treatment ensures extremely low resistance fluctuation and long service life

Low torque (3gf \* cm), low loss, maintenance

Stable signal transmission, perfect for emergency stop and emergency start

Smooth and quiet operation

The stator wire is pulled out from the side/the cap screw is positioned through the hole, and a stop is added to facilitate the connection of the customer's equipment

Ultra-hard gold-plated treatment ensures extremely low resistance fluctuation and long lifespan



# Accompanying Robot



## SOLUTIONS

- LPM-D15-0602(JP13-384-01)
- LPS-04
- LPM-08B-0404(JP37-019-01HW)

## TECHNICAL FEATURES

Smooth operation and small dynamic resistance fluctuation can transmit control signals

Torque:  $\leq 0.88\text{g} \cdot \text{m}$

Small size, light structure, easy installation in narrow ball machine space



# Nucleic Acid Detection Robot

## SOLUTIONS

- LPM-18F
- LPC-15B

## TECHNICAL FEATURES

Outer diameter 12.5mm ~ 54mm; Current 1A~10A, voltage 100V~380V, etc. are optional

The minimum fluctuation value can reach 10m  $\Omega$

The working temperature can be customized from -60  $^{\circ}\text{C}$  to +300  $^{\circ}\text{C}$ , the working speed can be selected from 1 to 6000 rpm, and the lifespan can reach 8 million to 260 million revolutions

The slip ring shape, outlet mode, shell material, etc. are optional. It can be integrated with bendable controllable data signal transmission, serial port simulation and other signals, with smooth operation and stable performance



# 3D Scanning Arm



## SOLUTIONS

- LPC-24A-2002-E2
- LPM-18C-1401-E2
- LPM-18C-10S-E3

## TECHNICAL FEATURES

Integrated Ethernet, stable signal transmission and performance

Power and signal compatible design

Long lifespan

The standard product is restructured with compact structure and high adaptability



# Cooperative Manipulator (Cooperative Robot)



## SOLUTIONS

- LPT009-0203-0202-085
- LPM-0402

## TECHNICAL FEATURES

Ethernet and other multiple signals can be integrated for stable transmission

Power and signal compatible design can be customized according to customer requirements

Smooth, quiet and reliable operation

