



## PENLINK

### INTRODUCTION

## Rotary Transmission Solutions for Production Lines

Rotary transmission systems are essential components in modern production lines, enabling efficient and reliable transfer of power and signals between stationary and rotating parts.

This application note provides an overview of the key features, benefits, and applications of rotary transmission systems, with a focus on slip rings and their integration into production environments.

- Built to withstand harsh industrial environments for long service life.
- Suitable for a wide range of applications, including packaging, robotics, and automated assembly lines.
- Space-saving designs allow for easy integration into existing production setups.
- Provides consistent power and signal transmission, reducing downtime and maintenance needs.



## PENLINK SOLUTION

# Rotary Transmission for Production Lines

Rotary transmission systems are vital for the efficient operation of modern production lines. Their ability to provide reliable power and signal transmission in a compact and durable design makes them an ideal choice for various industrial applications.

By integrating these systems into your production line, you can achieve higher productivity, enhanced flexibility, and significant cost savings.

We have extensive knowledge and understand the key factors in production lines to address common problems. One of the most critical factors is workflow efficiency. Properly arranged machinery and workstations ensure a logical flow of operations, reducing unnecessary material handling and eliminating production bottlenecks.

Streamlining processes ensures smoother flow throughout the production line, eliminating bottlenecks, and reducing cycle times.

Our rotary transmission systems play a crucial role in enhancing workflow efficiency by:

- **Reducing Downtime:** With reliable power and signal transmission, our systems minimize interruptions and ensure continuous operation, leading to higher productivity.
- **Long Lifespan:** Built to withstand harsh industrial environments, our rotary transmission systems offer long service life, reducing the need for frequent replacements and maintenance.

## Key Features

- **High Efficiency:** Rotary transmission systems are designed to minimize energy loss and ensure efficient power transfer.
- **Durability:** Built to withstand harsh industrial environments, these systems offer long service life and reliable performance.
- **Versatility:** Suitable for a wide range of applications, including packaging, robotics, and automated assembly lines.
- **Compact Design:** Space-saving designs allow for easy integration into existing production setups.





## PENLINK SOLUTION

# Rotary Transmission for Production Lines

From packaging machines to robotics and automated assembly lines, we offer products and solutions that address known operational challenges. For packaging machines, we ensure continuous power and signal transmission to rotating parts, improving efficiency and reducing downtime.

For robotics, our solutions enable seamless movement and control of robotic arms and joints, enhancing precision and performance. For automated assembly lines, we support the integration of various automated processes, ensuring smooth and uninterrupted operation.

## Penlink Products

Here are the products we offer and their base specifications. We offer full modifications on our models to make it easy for you to get what you need:

### Electrical Slip Rings

- Voltage Rating: Up to 240V
- Current Rating: 2A to 14A
- Number of Rings: 6, 8, or customizable
- Operating Speed: 0 to 400 RPM
- Temperature Range: -20°C to 80°C

### Pneumatic and Hydraulic Rotary Unions

- Media Options: Air, water, oil, and other fluids
- Pressure Rating: Up to 300 bar
- Flow Rate: Customizable based on application
- Material: Stainless steel, brass, or aluminum

### Hybrid Systems

- Combination: Electrical slip rings with pneumatic or hydraulic rotary unions
- Data Transfer: Up to 1GB for video and remote-control applications
- Integration: Designed for compact and space-constrained environments



**PENLINK**

# Level Up Your Production Line Operations

Enhance the efficiency and productivity of your production lines with our advanced rotary transmission systems. Our solutions are designed to provide reliable power and signal transmission, reduce downtime, and ensure seamless integration of automated processes.

Whether you are dealing with packaging machines, robotics, or automated assembly lines, our products are built to meet your specific needs and withstand the demands of industrial environments. With our extensive knowledge and customizable options, we can help you overcome operational challenges and achieve higher performance.

Contact us today to discuss how our rotary transmission systems can transform your production line operations and drive your business forward.

## CONTACT INFORMATION

[info@penlink.se](mailto:info@penlink.se)

+46 (0)8 4011010

Penlink AA, Västberga Allé 5,  
SE-126 30 Hägersten, Sweden

