



PENLINK

Power Slip Rings in Stacker Reclaimer Systems

Penlink's power slip rings are specifically engineered for uninterrupted transmission of high current and complex signals in heavy-duty stacker reclaimer environments. Our assemblies are designed to meet the operational demands of stacker reclaimers, where reliability and continuous rotation are critical.

Traditional cable solutions in these rotating machines often result in cable twisting, fatigue, and increased downtime. Penlink's modular slip ring systems are developed to optimize uptime, minimize maintenance, and enhance safety by providing robust power and signal transmission—even under the demanding mechanical and environmental conditions found in stacker reclaimer operations.

Key Features for Stacker Reclaimers

High current capacity: up to 800A or higher on request

Reliable signal transmission: electrical (Ethernet, Profibus, CANBus, encoder)

Durable construction: stainless steel 316, IP54+ on request

Large hollow shaft: up to 900 mm

POWER SLIP RING SOLUTIONS

Modular Slip Ring Solutions for Stacker Reclaimers

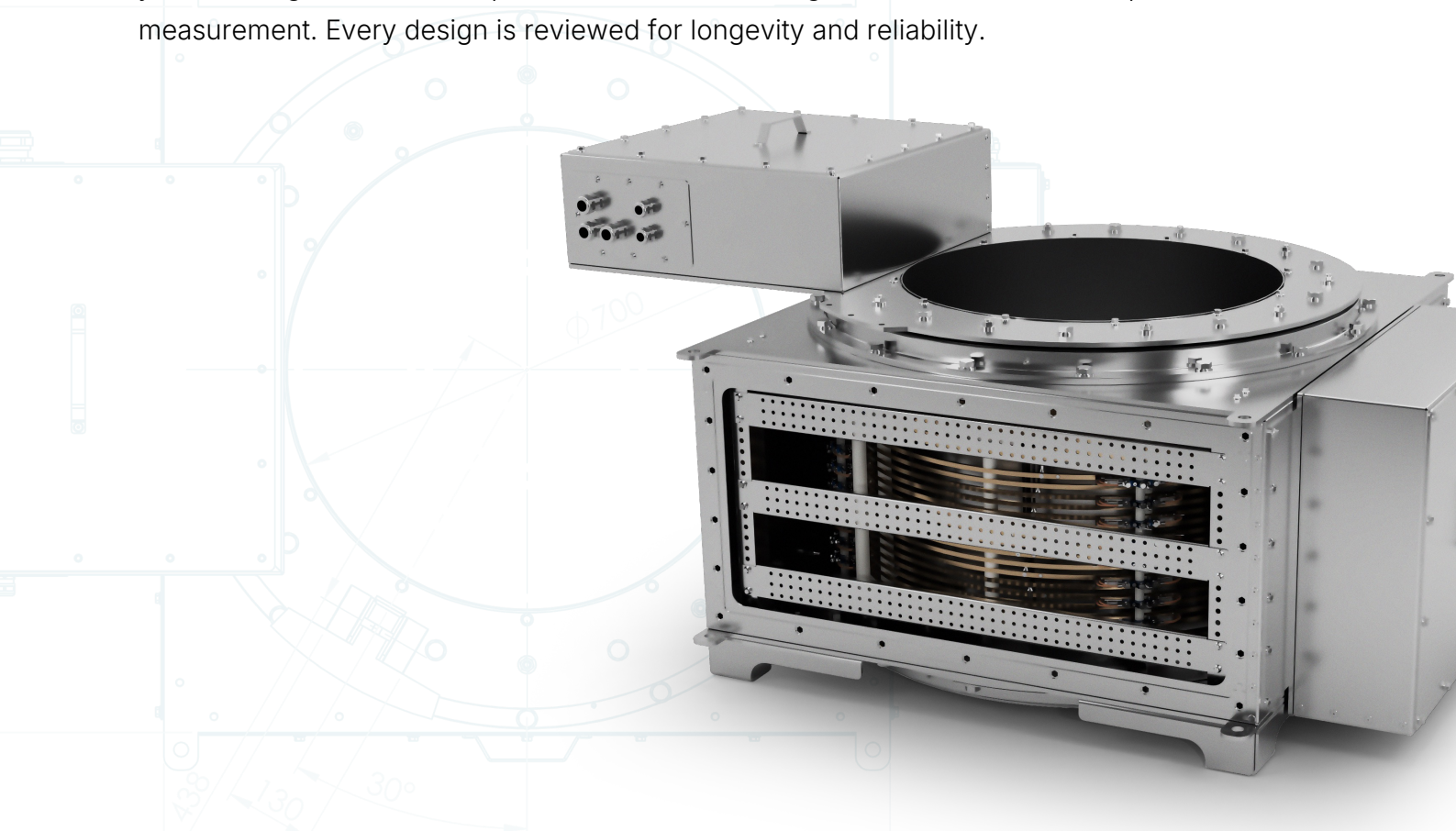
Stacker reclaimers operate in some of the most demanding environments, requiring more than just basic power transfer. They need precision, durability, and compliance with the highest industry standards. Penlink's modular slip rings are engineered specifically to meet these operational demands.

We begin every project with a thorough analysis of your requirements:

- Mechanical constraints (such as flange mounting, through-bore, or compact housing)
- Electrical specifications (voltage, current, isolation)
- Environmental factors (dust, moisture, salt, vibration) typical for stacker reclaimer operations

The modular designs allow seamless integration of power, analog/digital signals, and high-speed data—tailored for your application. Each assembly combines power circuits, data, signals, and encoder channels in a single, robust unit. IP-rated enclosures, Corrosion-resistant materials ensure reliable operation in harsh environments. All components are selected for wear resistance and tested for torque, dielectric strength, and insulation.

This approach means we can adapt the configuration to your specific requirements—whether you need high current, multiple data channels, or integration with encoders for position measurement. Every design is reviewed for longevity and reliability.



KEY ADVANTAGES

Key Advantages for Stacker Reclaimers

Penlink slip rings don't just rotate—they deliver the performance, endurance, and safety that stacker reclaimer operators demand.

Key Advantages

- Eliminates cable twisting and fatigue in rotating stacker reclaimers
- Handles high current loads (up to 800A) for motors and drives
- Supports simultaneous power, data, and control signals (Ethernet, Profibus, CANbus, encoder)
- IP-rated enclosures protect against dust, moisture, and vibration
- Reduces maintenance intervals with wear-resistant contact materials
- Customizable designs for specific stacker reclaimer requirements

Parameter	Values
Max. Current Per Ring	Up to 800A (or as required by the application)
Max. Voltage	690VAC / 1000VDC (or as specified)
Number Of Power Circuits	3–12 (customized for motors/drives)
Number Of Signal/Data Circuits	4–48 (Ethernet, Profibus, CANbus, encoder, etc.)
Protection Class (Ip-rating)	IP54 or higher on request
Housing Material	Stainless steel 304 or 316 (as required)
Shaft Diameter (Through-bore)	Up to 900 mm
Rotational Speed	Up to 30 rpm (or as required)
Operating Temperature	–30°C to +60°C (or as specified)
Maintenance Interval	>1 year (depending on environment and usage)
Certifications	IEC, DIN, UL, CSA, DNV (as required)
Customized Options	Number of rings, contact material, cable connection, etc.

PENLINK SOLUTION

How Penlink Solves Industrial Power Transmission Challenges

Penlink specializes in delivering custom-engineered slip ring solutions for heavy-duty applications where high-power transmission, continuous rotation, and reliable signal transfer are critical. Whether it's a stacker reclaimer, a crane, or another large rotating system, each project presents its own set of mechanical, electrical, and environmental challenges.

Our solution-driven approach includes:

- **Technical analysis** of load requirements, rotational speed, environmental exposure, and integration constraints for each application
- **Custom slip ring configuration**—combining power, signal, and data channels in a compact, rugged housing
- **Engineering support** with CAD models, datasheets, and mounting instructions for seamless integration
- **IP-rated enclosures, wear-resistant contact materials, and modular designs** to reduce maintenance and maximize uptime

All solutions are designed to IEC, DIN, UL, CSA, and DNV standards, and tested for insulation resistance, dielectric strength, shock, vibration, and humidity. Third-party certification inspections can be arranged upon request.

By combining technical expertise with a collaborative approach, Penlink ensures that every slip ring solution meets the unique demands of your high-power application—delivering reliability, safety, and long-term performance.





PENLINK

Ready to Optimize Your Stacker Reclaimer?

Penlink's modular slip ring solutions are engineered specifically for the demanding requirements of stacker reclaimers—delivering reliable power and signal transmission, minimal maintenance, and seamless integration with your machinery. Whether your stacker reclaimer needs high current capacity, advanced data or signal transmission, or robust protection against dust and moisture, our team is ready to support your next project.

Contact us for technical consultation, custom configurations, or more information about our slip ring solutions for stacker reclaimers.

Key Features at Glance

High current capacity: up to 800A or higher on request

Reliable signal transmission: electrical (Ethernet, Profibus, CANBus, encoder)

Durable construction: stainless steel 316, IP54 or higher on request

CONTACT INFORMATION

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