



PENLINK

Slip Rings for Stacker Applications

We design slip rings that work perfectly for bulk material handling applications. Bulk stackers maintain material consistency and quality with the help of reliable rotating transmission of power, signals and data. Piles are built continuously in a 360° rotational pattern. Successive layers of material are laid down to form the pile using a stacking conveyor that pivots through a complete circle as the pile grows.

Penlink can offer a slip ring solution with both power and data signals such as Profinet, CAN-bus or 1GB Ethernet. The product can be designed to IP66 and be equipped with internal heaters.

CIRCULAR BLENDING BED STACKER RECLAIMER

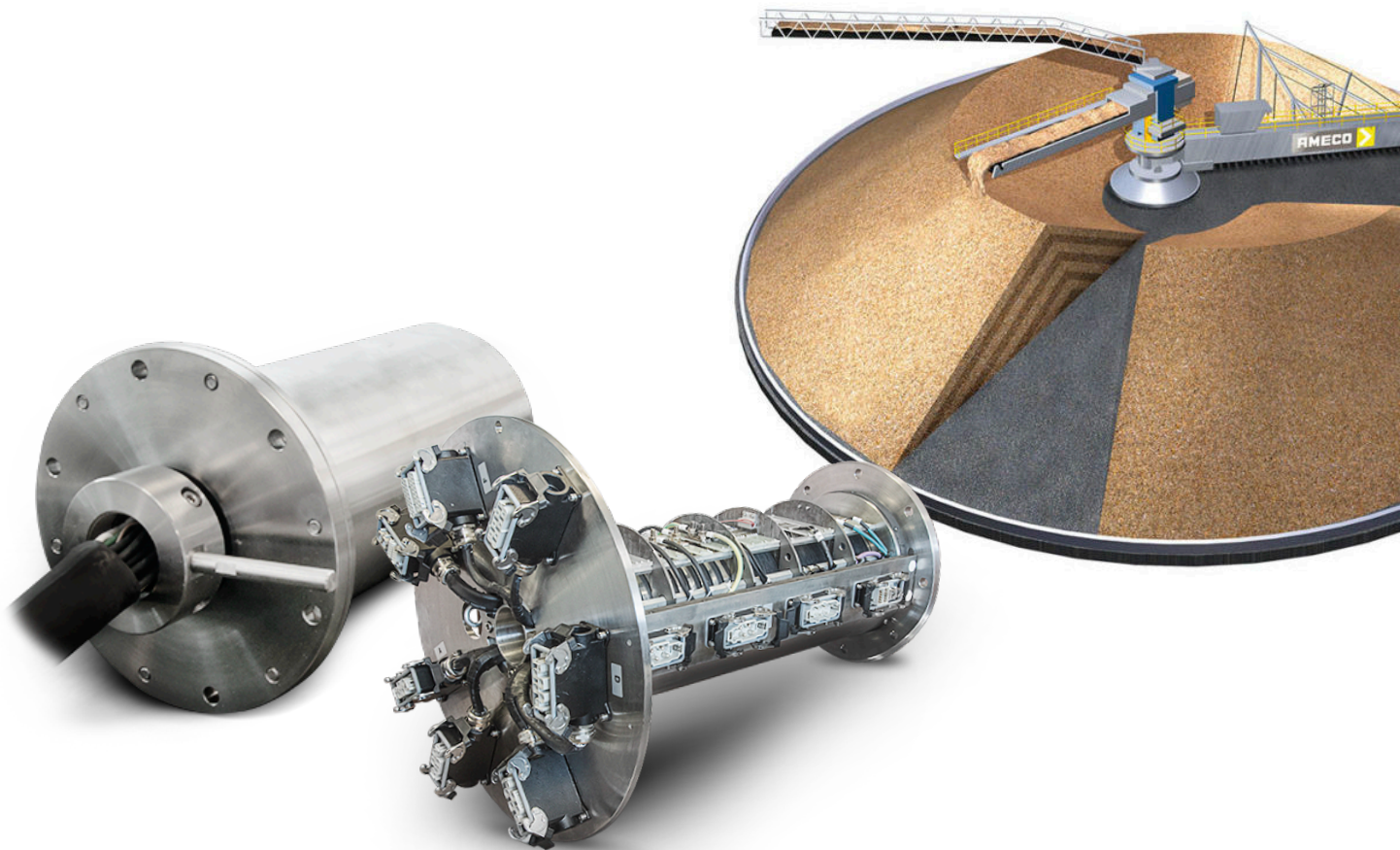
Like all applications we integrate our slip rings in, the blending bed stacker reclaimer will get maximum wear life. Installed with our products we can guarantee you a high-quality performance from your application.

The reclaim bridge is located at ground level and moves into the pile as it reclaims. Simultaneously, a harrow agitates the reclaiming face of the pile, fluidizing the material.

A large diameter screw catches all the falling material, transfers it to the centre area, where it drops through a conical chute onto the reclaim belt. This belt passes under the pile and emerges beyond the edge, maintaining the circular base of the pile without interruption. Our slip rings are integrated into the rotating parts of the stacker and enables it to rotate freely with 360° rotation whilst still sending power, signals and data throughout the application.

We can design the slip rings according to any requirements like size, number of circuits, rings, hollow shaft, operating speed and temperature range. Our slip rings can handle data signals such as Profinet, CAN-bus or 1GB Ethernet. Slip Rings can be designed to IP66 and be equipped with internal heater.

If needed, Penlink's engineers and slip ring experts are available to help you with design choices and suggestions.



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APPLICATION NOTE

CONFIGURATION OF A SLIP RING, DATA, FIBER BRUSH TECHNOLOGY & ENVIRONMENTAL PROTECTION.

Mechanical and Environmental

Our slip rings are designed for harsh environments. With years of experience from producing industrial, military and the offshore slip rings, we design our stacker slip rings to fulfil your expectations.

The slip rings are offered in stainless steel, with protection up to IP66. We equip the slip rings with internal heaters to remove condensation. If needed, we can customize the flanges and housing to match your mechanical requirement.

Circuits Configuration

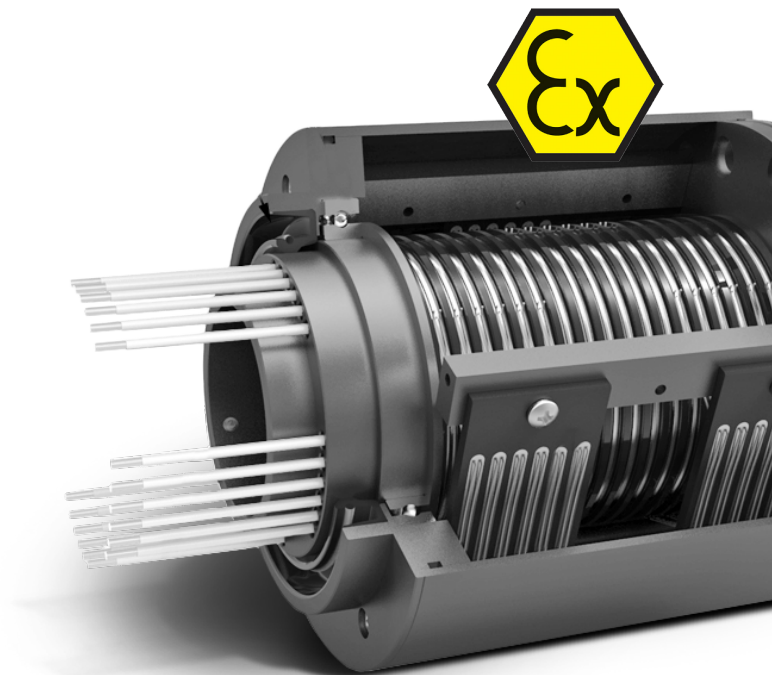
By using our modified standard technology, we can tailor the product to fit your requirements, without escalating costs.

Our slip ring brush technology allows disturbance free Ethernet communication with up to 1gb ethernet. The slip ring can also be in combination with power and control signals in the same unit without disturbance.

Fiber Brush Technology / Maintenance Free

Our slip rings are designed with fiber brushes, which offers great advantages over traditional composite coal brushes. With a service free lifetime of over 80 000 000 revolution, and without dust or debris inside the slip ring that needs to be cleaned, our slip ring is completely maintenance free.

- ✓ Stainless Steel Design
- ✓ High IP Classification
- ✓ Possible EX Certification
- ✓ 1GB Ethernet, Profinet & CAN-bus
- ✓ 80 000 000 Revolutions
- ✓ Maintenance Free



PENLINK

Get in touch with us today to start your next project!

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Engineering & Product design



Inspection & Quality management



Simulation & Design verification



Assembly & Testing



Advanced Manufacturing



Value-Added Products & Services

We supply only the best solution for each and every industry, get in touch with us to learn more about your possibilities when working with Penlink.

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