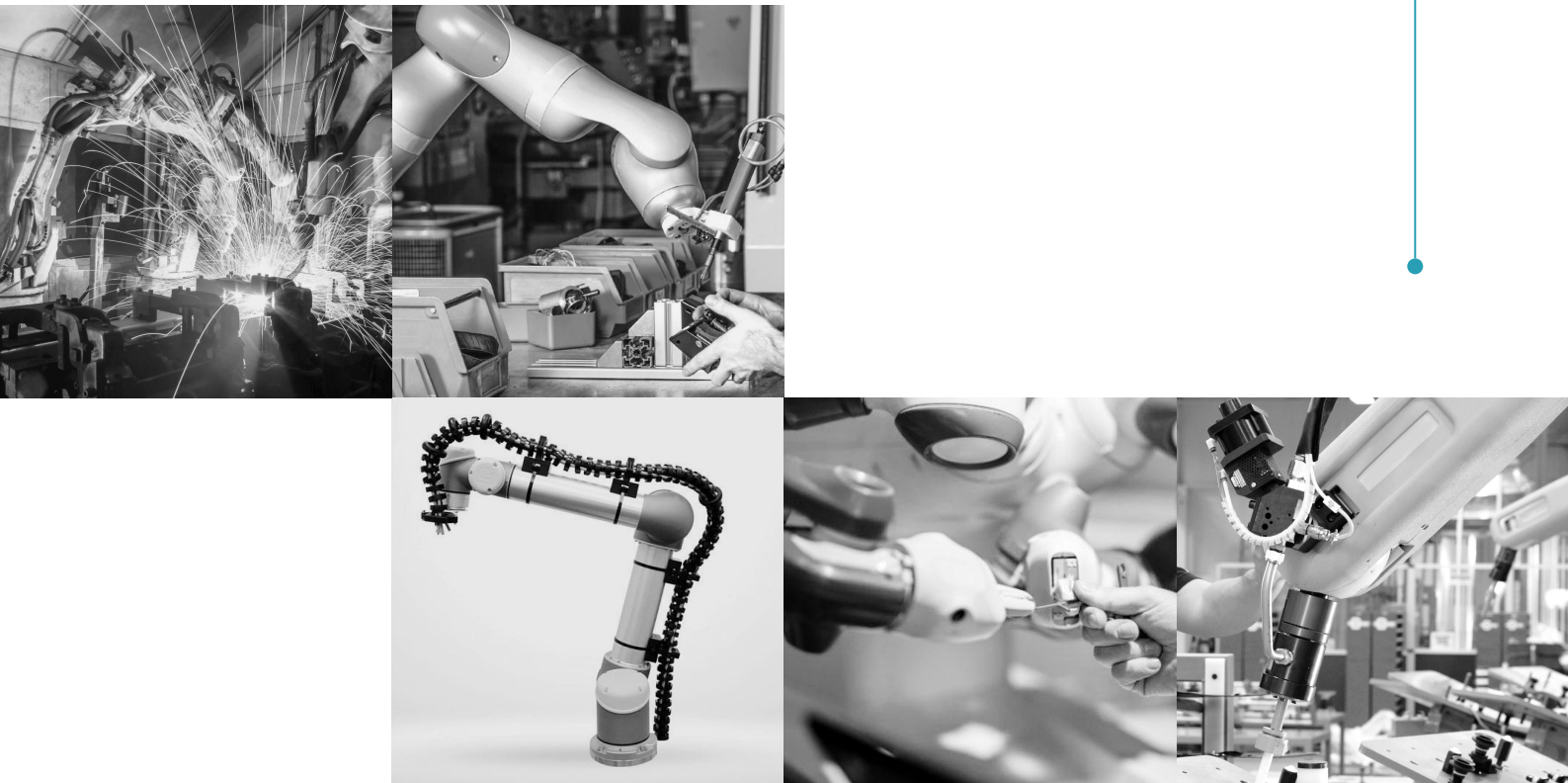


- **Collaborative robots will advance quality precision and injection molding to a new level!**

Penlink can provide a complete turnkey solution or critical turnkey components to ensure safe and accurate motion such as; electrical slip rings and pneumatic swivels for continuous 360° free movement, high accuracy encoders, kit-motors, rotary actuators and drives.

Several of our sister companies within Addtech focus on this industry and we can together as a team offer a complete solution for your collaborative robot!

PENLINK



WORKING TOGETHER TO MAKE GREAT DESIGN

Our team at Penlink uses the most advanced tools to create, debug, maintain and support our customers in the most transparent, agile and effective way.



Transparent Documentation
& Version Control



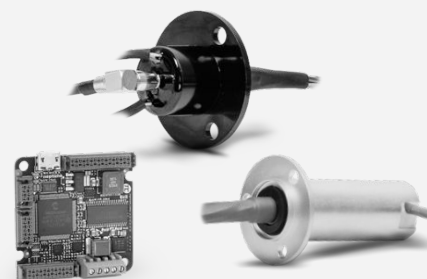
Agile Project Management
& Issue Tracking



World Standard Electronics
Design Software



Online and Offline
First-Class Support



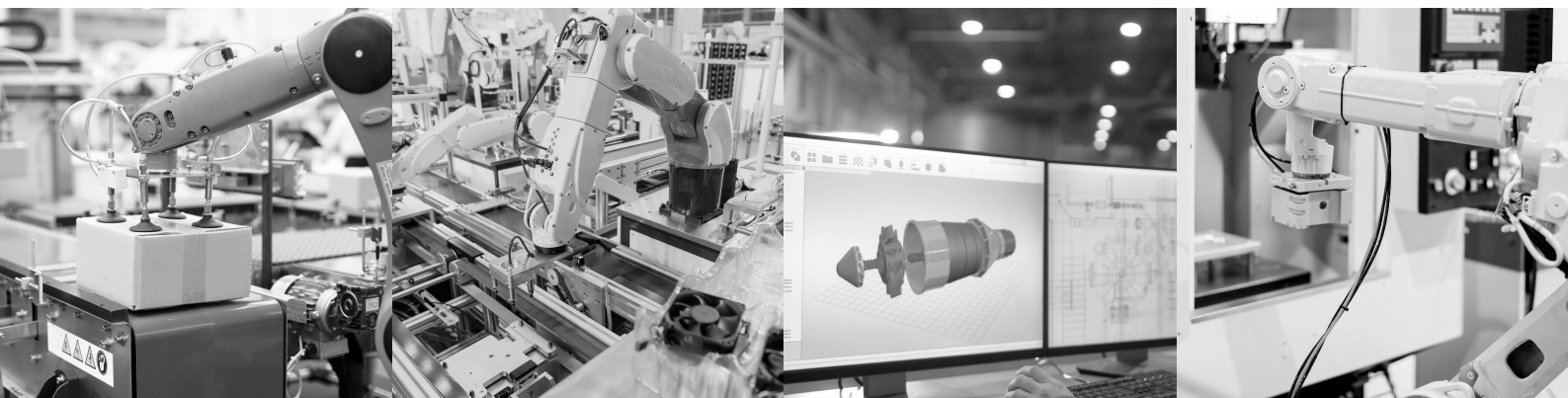
P | COLLABORATIVE ROBOT

Slip rings, Swivels, Encoders & Drives

ADVANTAGES WITH COLLABORATIVE ROBOTS

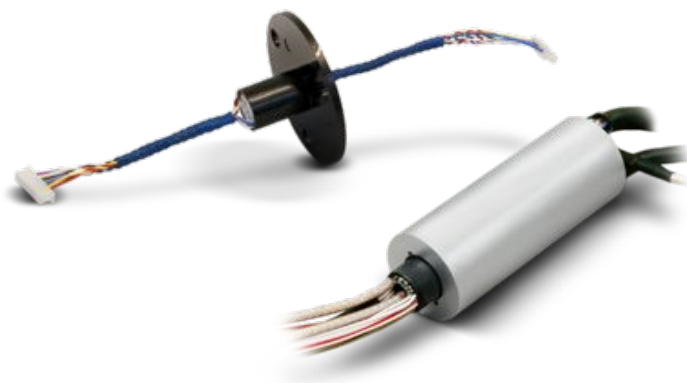
Collaborative robots have been around since the 1990s, but in recent years advancements in sensors and automation technology, not to mention artificial intelligence, have raised their profile quite substantially. Enabling automating tasks within pick and place, injection molding, quality inspection, assembly, packaging, palletizing.

- + Components ensuring no interruption of safety features
- + Low profile and high accuracy encoders
- + Small slip rings high reliability and large power transfer
- + Integrated rotary transmission solutions electrical and pneumatic
- + Intelligent and highly customizable drives
- + Kit-motors with high power to weight ratio



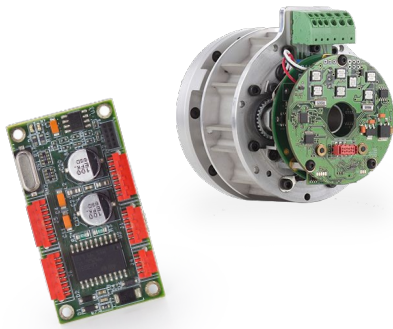
SMALL COMPACT SLIP RINGS

A slip ring is a component for transmission of power and data signals to a freely rotating unit such as a radar aerial or the rotor blades of a wind turbine. Our slip rings can be used in any mechanical device that requires free rotation while transmitting power or electrical data signals. It is known that slip rings can improve the performance and simplify the design of many applications.



COMPACT SWIVEL DESIGN

Rotary unions are engineered to endure a wide range of temperatures and pressures for a variety of conditions and environments. In addition, rotary unions may integrate multiple passages and handle different types of fluid simultaneously. This swivel is one of our standard design which offers corrosion resistant, low heat generation, increased seal life performance and much more.



CUSTOMIZED DRIVES

Thanks to the latest advancements in micro and precise drive technology together with high-performance bus technology, we can provide light weight customized servo drives that enables that new sensitive gripper hands can be developed with small footprint. Their modular design allows to connect the main control board to three different power stage boards. The drive supports several feedbacks and offers industrial networking.

BRUSHLESS DC MOTORS / TORQUE MOTORS

Extensive range of electric motors from a few Watts to more than 200 kW. These motors are intended to fit on-board aerospace, defence and other demanding environments. They are available as a LRU (housed) or frameless that can be integrated by the customer.



VLX - INDUSTRIAL ENCODERS

The VLX encoder series is a new model of encoders that is designed to be integrated into actuators. It was initially designed for compact collaboration robots, but has due to their great advantages been used in several different applications.

The Capacity encoder, can due it performance and high temperature range (up to 100°) be installed inside the motor. The capacitive signal is also immune to the motor magnetic fields.



INTEGRATION

Penlink has the capability to provide the services of integrated components. These integrated solutions can be designed based on a sketch or an idea from the customer. We implement different technologies to fulfill our customer's requirement. It can be servo-, camera, rotary joint-based solutions. Please don't hesitate to ask us questions!



Let's talk business!

Get in touch with
us at Penlink!
No question is too
small or too big.



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HEADQUARTERS

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Solid Project
Management



Engineering &
Product Design



Commercial
Off The Shelf Products



Simulation &
Design Verification



Customized Design &
Integrated Solutions



Assembly
& Testing



Cutting-edge
Technology



Value-added Products
& Services