

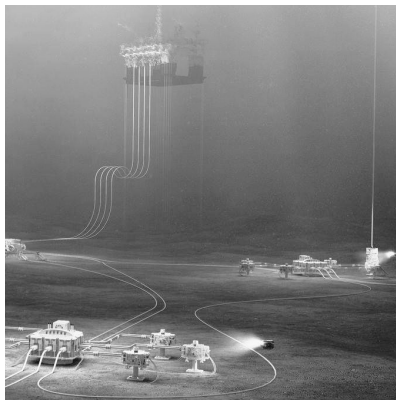
# P | HIGH PRESSURE ROTARY JOINTS

Swivel and Slip Ring Solutions

- **Deep sea projects will be even easier with our reliable high pressure products!**

Our subsea products allow relative rotation between equipment/reel and pipe/hose to maintain proper angular positioning during installation, therefore reducing installation time and eliminating bending moments to prevent equipment / pipe damage as subsea equipment is lowered to the sea floor. Committed to the ever-changing challenges of subsea investigation development, we've made significant and ongoing investments including capacity manufacturing and custom pressure and load test equipment for testing products.

## 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 | HIGH PRESSURE ROTARY JOINTS

Reliable components!



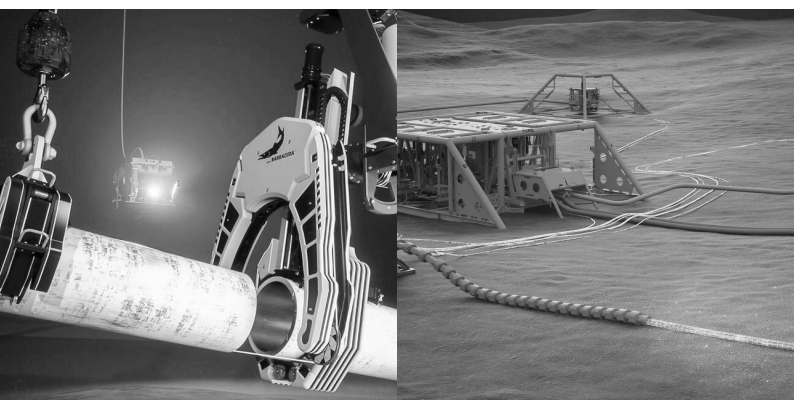
## PRESSURE COMPENSATED SLIP RINGS

In our rotary joints the electrical power and signal passes provides superior performance and reliability in demanding operational environments. It can pass through high voltage and high current, customized to meet customer specific needs. The rotary joint solutions can be oil filled for operations down to 6000 meters, including up to 8-channels of fibre optic. And maintenance free!

We also have solutions for topside!

## HIGH PRESSURE SWIVELS

Worldwide, subsea equipment and operators count on our performance for a wide range of solutions. We build upon our experience from applications including top drive hydraulic swivels, coiled tubing reel swivels, cement tool swivels, subsea flow line swivels and many other specialized high pressure swivel applications. We have complete quality control, our swivels are designed, manufactured and qualified to the highest standards Suitable for: Christmas Tree Connections, Gooseneck Connections, PLET, PLEM FSHR and In-Line Connections.



# P | HIGH PRESSURE ROTARY JOINTS

Features of our high pressure components

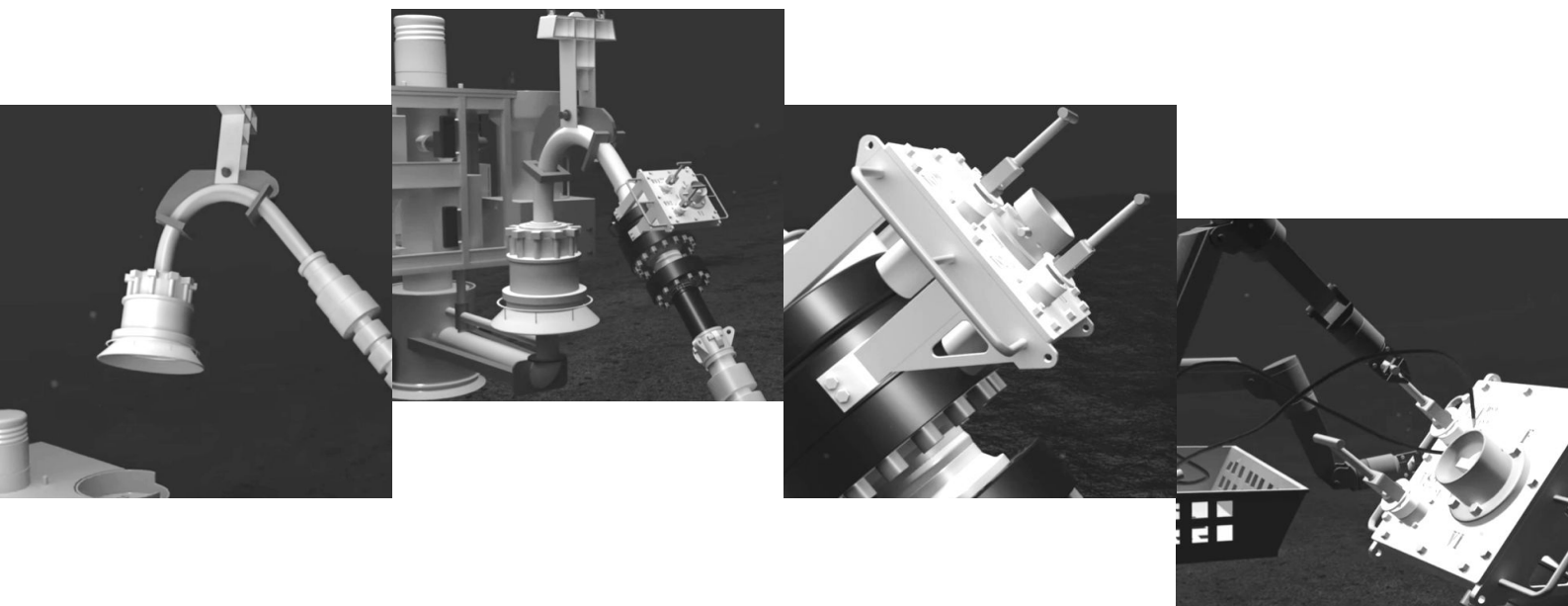
## PRESSURE COMPENSATED SLIP RINGS FEATURES

- + Designed for LARS and TMS Systems
- + Topside and Submerged Solutions
- + Oil Filled and Pressure Compensated Solutions
- + Diagnostic Tools
- + From 4-80 Circuits
- + 1-16 Fibers
- + Depths To 5000+ Meters
- + No Service Required



## HIGH PRESSURE SWIVELS FEATURES

- + Installation Depths To 3500+ Meters
- + Working Pressure Up To 15,000 PSI
- + Bore Sizes Ranging From 2"-16"
- + Designed To Be Operated By ROV
- + Torsion Resistance Solutions While Swivel is Energized
- + Available in API Flange / Hub, Grayloc & Other Connections



# PENLINK | HIGH PRESSURE ROTARY JOINTS

Reliable and strong high pressure components

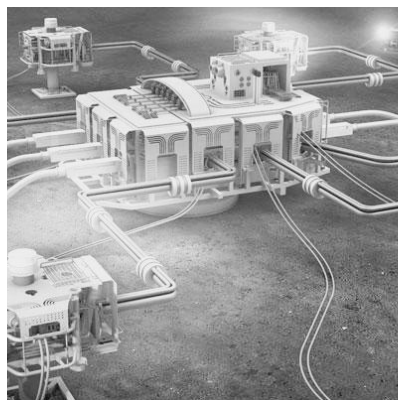
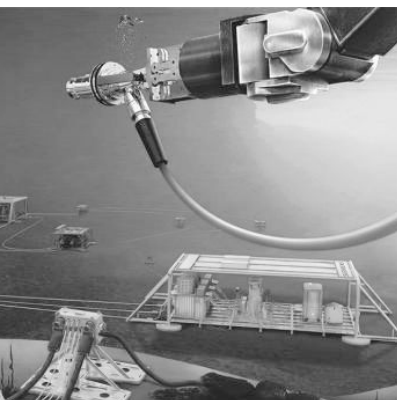


## INTEGRATION OF OUR PRODUCTS

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. Please don't hesitate to ask us questions!

Penlink's rotary union products provide hydraulic, pneumatic, chemical, and other service for hose, cable, and umbilical reel applications. We offer a wide range of options for single and multiple flow passages, pressures, flow volume, and fluid + electrical integration.

Committed to the ever-changing challenges of subsea development, we've made significant and ongoing investments including capacity manufacturing and custom pressure and load test equipment for testing products.



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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Engineering &  
Product design



Inspection &  
Quality management



Simulation &  
Design verification



Assembly &  
Testing



Advanced  
Manufacturing



Value-Added  
Products & Services