



# BGB Rotary Unions

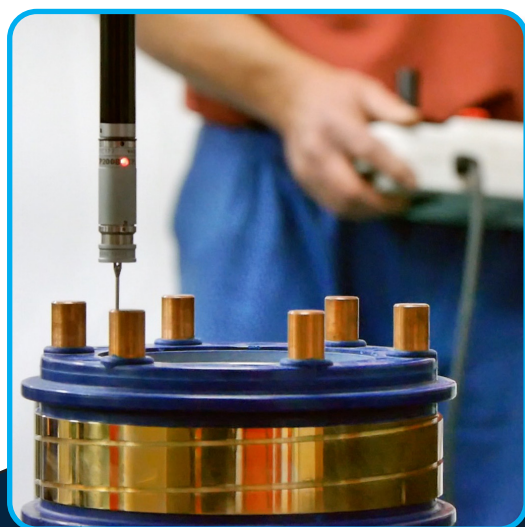
Rotating Swivel Joints



# Rotary Unions

Rotating Swivel Joints are used for the transfer of fluid between rotating and static parts. For over 40 years BGB have designed & manufactured custom and integrated rotary solutions for a wide range of applications.

BGB utilises its in house precision machining and assembly expertise to ensure that your solution can be implemented into the required envelope of the assembly, be it wind turbine pitch hydraulics, tracked excavators or packaging equipment.



Fine tolerances, gasket selection and seal design ensure no unquantified leaks from manufacture. This is rigorously validated against the test specification within our specifically designed in-house test rigs.

The test rigs allow: pre-installation, application of temperature and pressure performance to give peace of mind.

**ATEX** and other environmental tests can be validated via access to BGB's in-house testing capabilities or externally certified through our trusted partners.



Depending on your requirements, BGB can support you in the design of multi-passage swivel joints, combined solutions and facilitation of various fluids. In highly corrosive environments (such as marine) or where there is exposure to external agents, BGB can support you in the most appropriate material selection to ensure solution life expectancy is achieved and the cleanliness of your medium is protected.

BGB systems can also include optional features like: Limit Switches, Encoders, Condition Monitoring, Lightning Protection, Fibre Optic Joints and slip ring assemblies

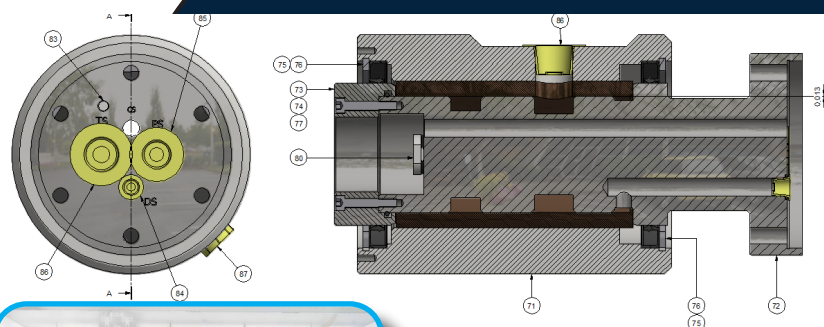


For higher pressure applications with fewer channels, BGB is able to test up to 300bar to ensure the leakage rates are within specification.

Contact our friendly team for more information.  
[sales@bgbinnovation.com](mailto:sales@bgbinnovation.com)

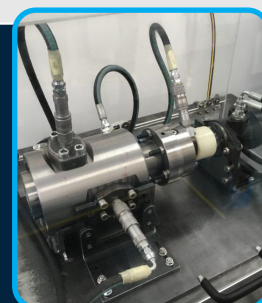
## Case Study

**THE CHALLENGE:** *Provide a low cost and robust solution suitable for wind turbine pitch actuation with a 20 year design life.*



Spec	Parameters
Revs	175e6 during lifetime
RPM	25
Pressure cycles	PS: 225 – 265 bar, TS: 0 – 70 bar
Leakage Rate	<1L/min
Oil cleanliness	ISO4406
Oil temp	-40 to 70oC
Corrosion Class	ISO9223
Stator Material	EN10088 1.414 ASTM A582 Grade 416
Rotor Material	EN10084 ASTM A322 Grade 4140

**THE SOLUTION:** 3 power channel, 1 cable channel. Develop and build a test rig to test the pressure capabilities and leakage rates.







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**[WWW.BGBINNOVATION.COM](http://WWW.BGBINNOVATION.COM)**

Email: [sales@bgbinnovation.com](mailto:sales@bgbinnovation.com)



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