

JAURE®



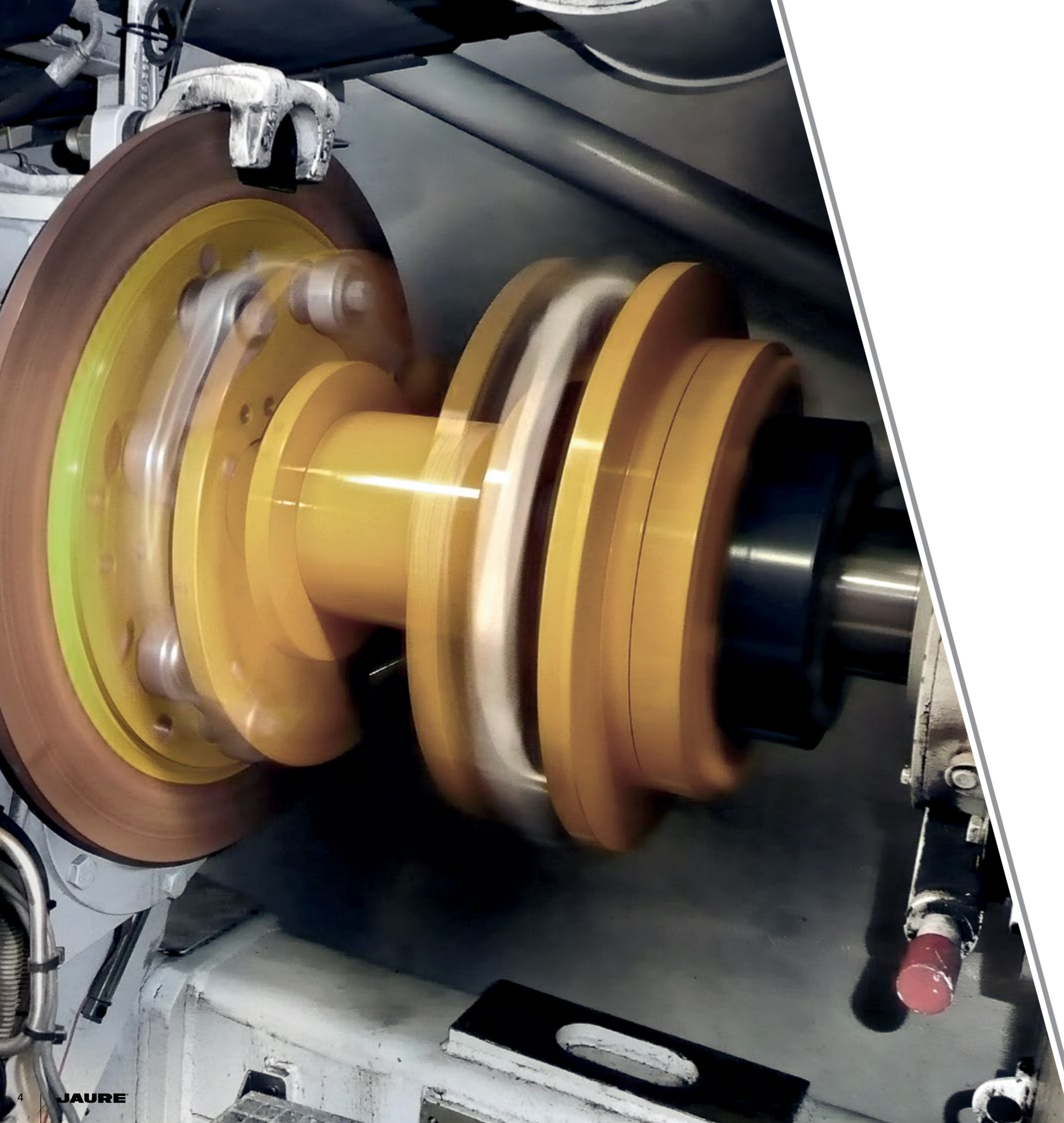
WIND POWER DRIVES

REGAL®



MOVING YOUR BUSINESS FORWARD.

For over 50 years we have been on the move as a leading supplier of couplings. Through our range of Jaure® couplings, we provide tailored solutions that bring innovation to your applications.



THROUGH OUR JAURE® COUPLINGS, WE OFFER THE LATEST GENERATION SOLUTIONS FOR THE WIND INDUSTRY.

We offer the widest range of technologies available in the market. Highly reliable couplings that respond to the most demanding requirements during the entire lifetime of wind turbines, lowering its total COE.

LAMILINK™ Non-lubricated steel link coupling.

MBJ Metallic ball joint coupling.

JFTL Torque limiter to protect the drive train from peak torques.

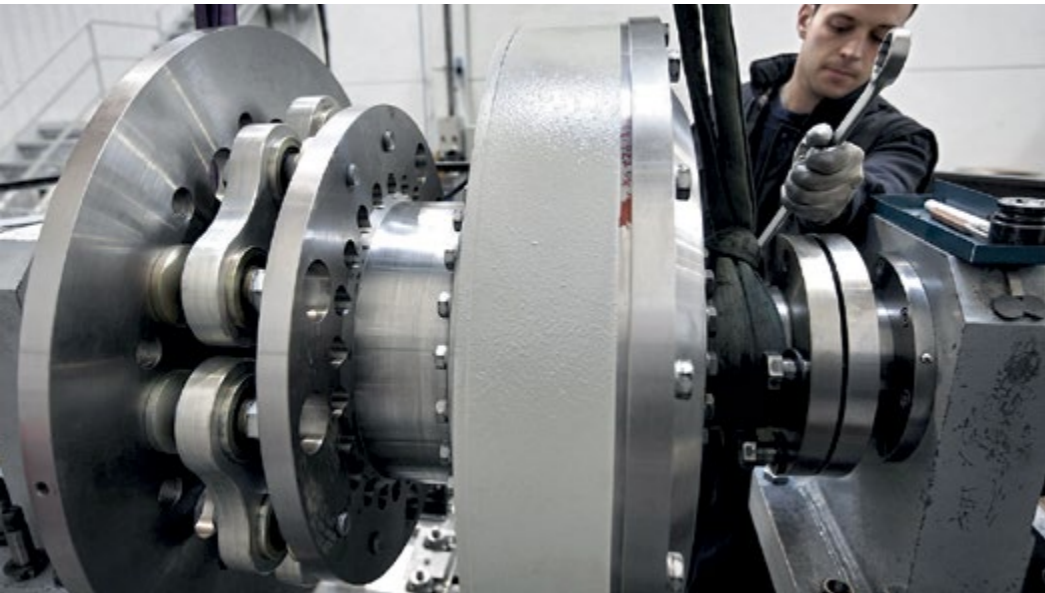
IXILFLEX® Bidirectional rubber link coupling for high misalignment.

COMPOLINK® Composite link coupling for high misalignment and long service line.

MT Very compact gear coupling for wind turbine applications.

Windmill couplings typically include all components at the HSS such as torque limiters (JFTL), brake disc, spacers (electrically insulating available) and different types of connections to the shafts, offering a complete package to fit each specific wind turbine.

Our program includes torsionally flexible and torsionally rigid couplings, covering the whole range of power from 300 kW up to 10 MW (and beyond) at all speeds (HS, MS and LS).



JAURE® RUBBER LINK-TYPE COUPLING
Bidirectional Ixilflex coupling for high misalignment.



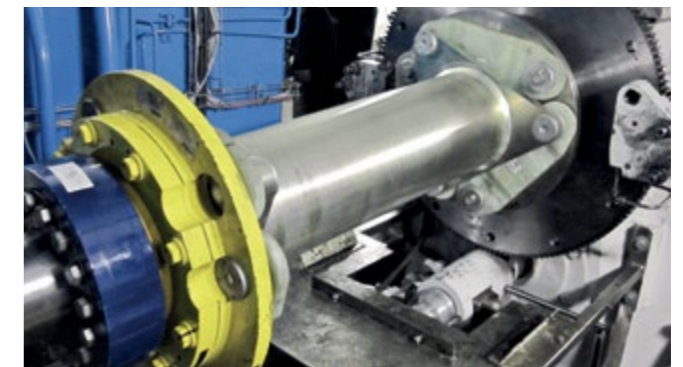
JAURE® COMPOSITE COUPLING
Highly flexible and corrosion free Compolink coupling.

Ixilflex bidirectional couplings offer high misalignment capacity with very low restoring forces. The misalignment is absorbed through bushes that are linked to alternate flanges. The bushes are made through the vulcanization of rubber to metal parts under high pre-compression.

Thousands of Ixilflex couplings have been installed in different wind turbines in the 300 kW-3 MW range with great success and keep running smoothly after many years of service.

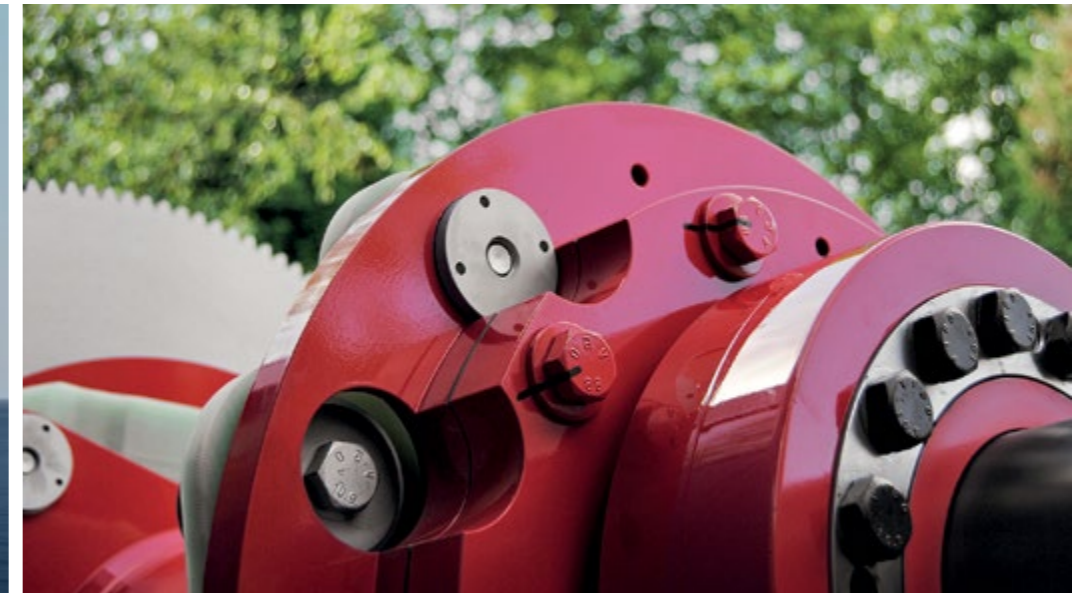
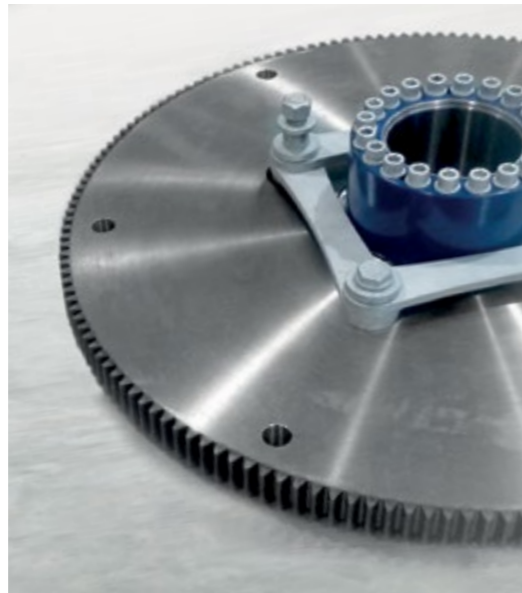
The Compolink® composite link coupling was especially designed for modern wind turbine applications, being the result of our extensive knowledge and experience with composite materials.

High misalignment capacity, high torsional stiffness and a long service life without any maintenance requirement make Compolink couplings a uniquely suited for windmills, especially for MMw and offshore applications.



LAMILINK™

JFTL



JAURE® LAMILINK™ COUPLING
Non-lubricated steel link coupling.

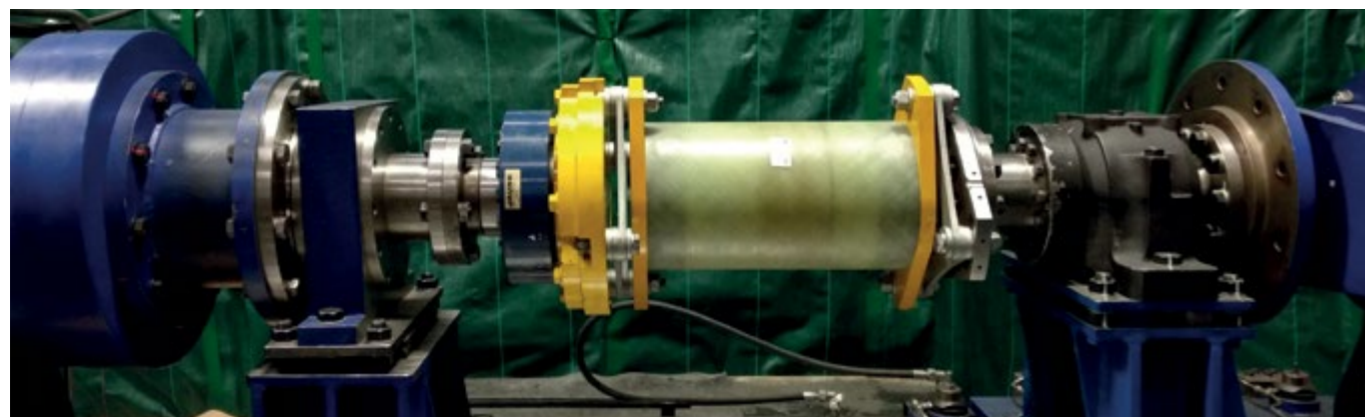


JAURE® FRICTION TORQUE LIMITERS
JFTL Torque limiters for drive train protection.

The development of our LAMILINK™ coupling resulted from our commitment to continuous development and innovation. This coupling is especially suitable for those applications where mounting space is reduced. It also provides: high misalignment capacity, high torque range, light weight and long life if properly aligned. It is easy to handle and maintenance free.

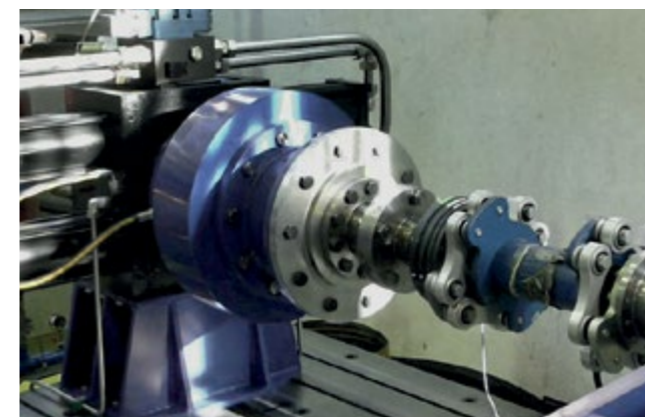


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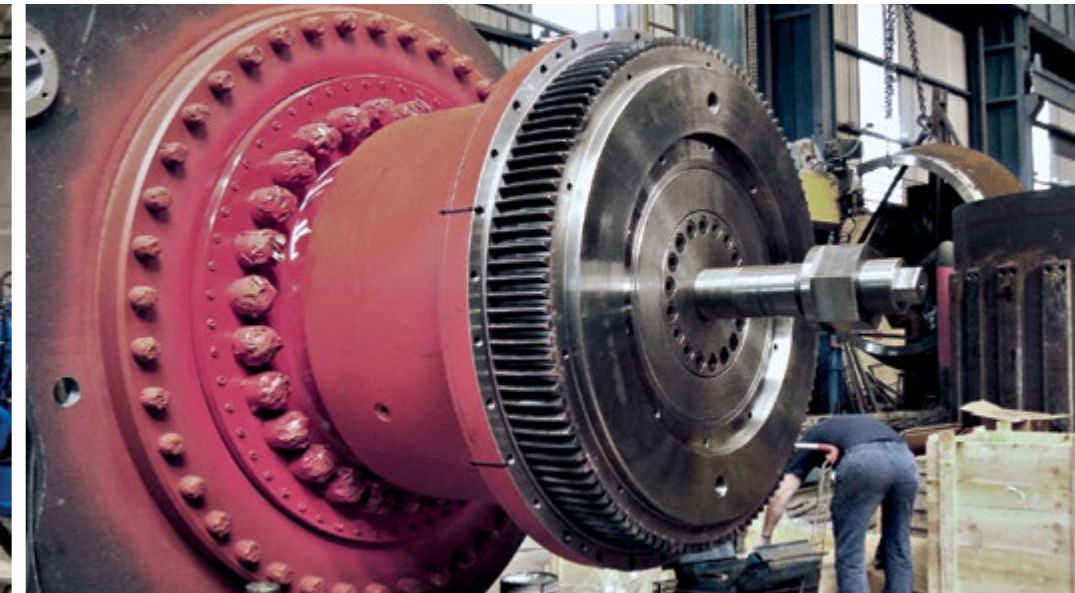
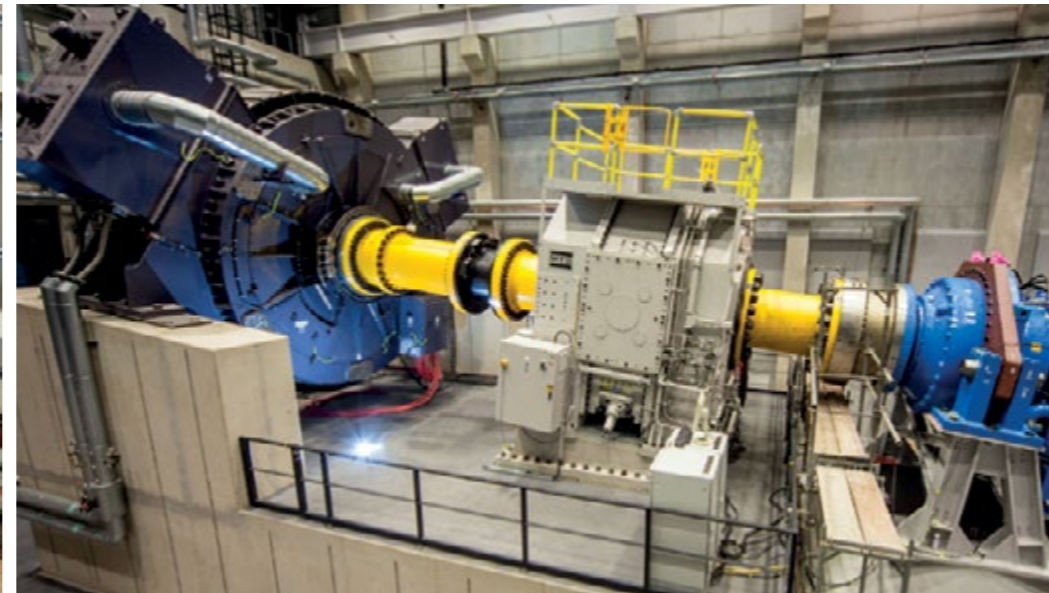
Protection of the complete drive train from peak loads coming from the generator has been a requirement for most of the mainstream wind turbines in the market during the last decade. This has been typically done through the integration of a torque limiter into the HSS coupling. In this sense,

we have recently developed the second generation of our JFTL torque limiter. New features allow the device to have a better durability and precision, which improves the energy efficiency of the wind turbine and grants the customer bigger incomes.



TEST BENCHES

MBJ: METALLIC BALL JOINT



Jaure® couplings are used in wind test benches, for both high accelerated life test and functional test benches. The main purpose of wind test benches is testing 1 to 1 full-scale nacelle as well as different components of the wind turbine: generators, gearboxes, bearings, etc.

Traditionally, we provided gear coupling solutions for test bench projects. Through the years, the wind turbines business has been developed with a constant power increase, and consequently, increase in turbine size. Therefore, current projects for test

benches bring new challenges, including the need of new products and technology.

We developed the Jaure metallic ball joint coupling (MBJ), the most advanced design concept for torque transmission with extreme and variable misalignment conditions.

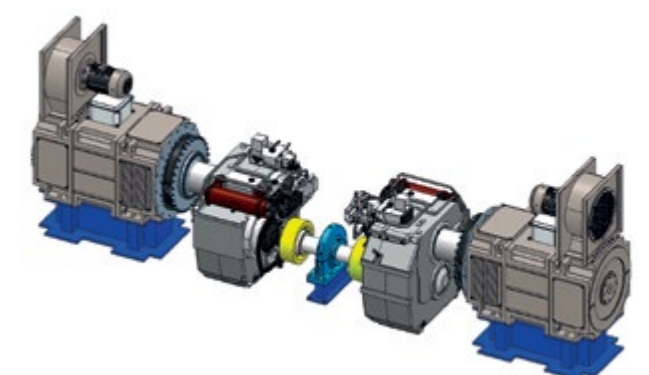
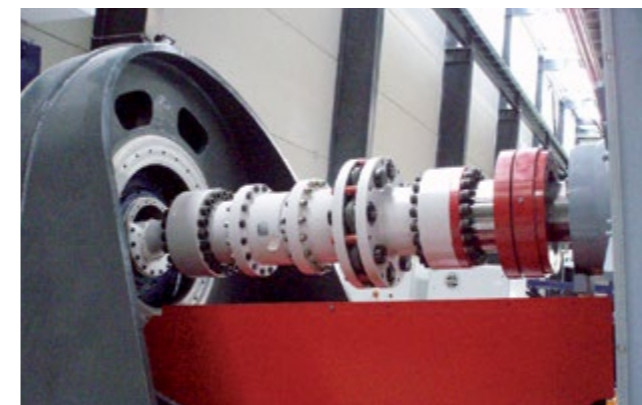
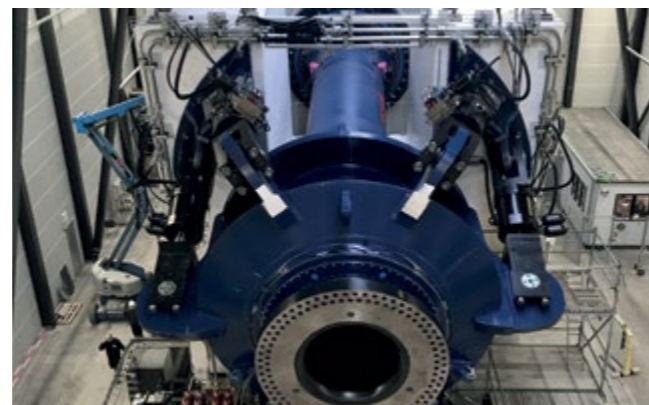
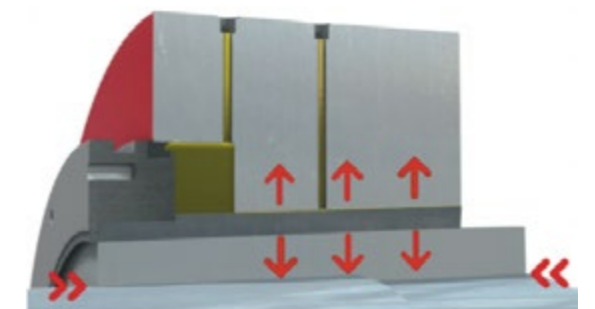
The MBJ coupling provides high torques in reduced envelopes for wind turbines up to 10MW, maintenance and backlash free, with low reaction forces and high misalignments.

JHC & GEAR COUPLINGS

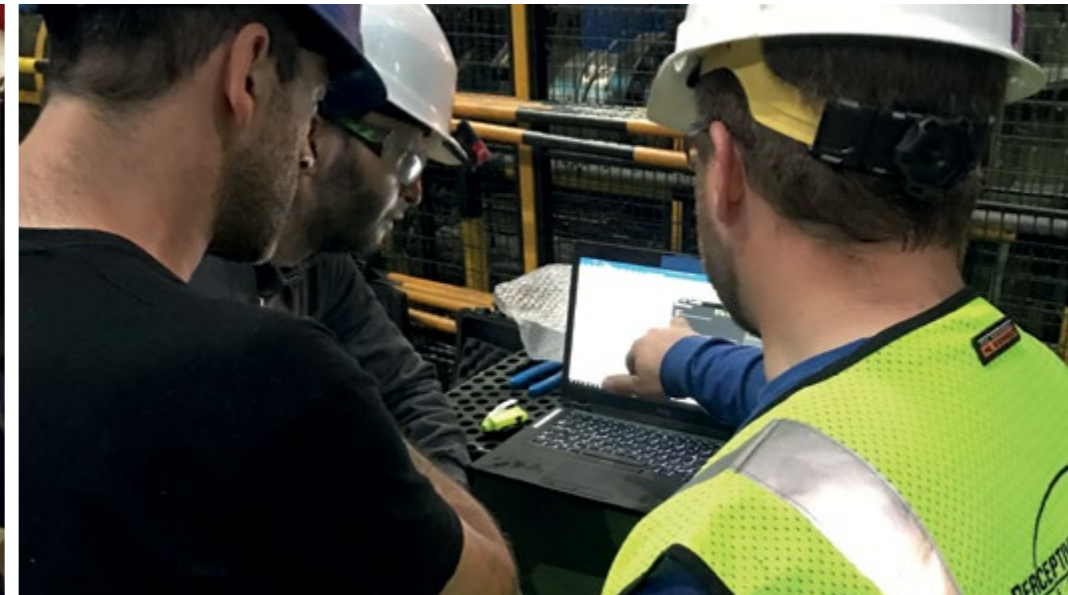
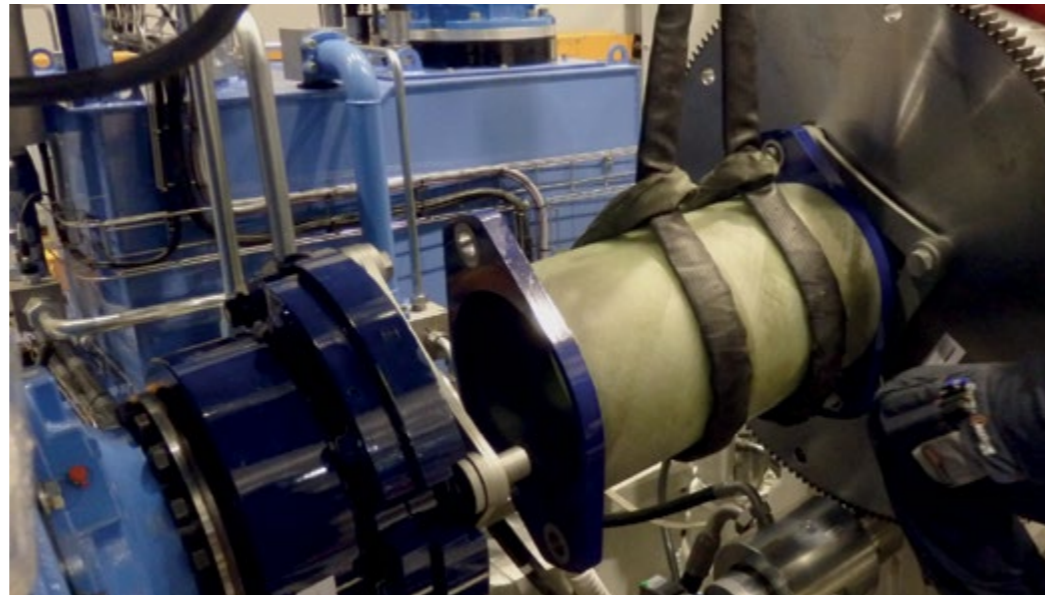
We also continue offering gear couplings for specific projects like functional test benches, where different components of the wind turbine drive train are tested. Gear couplings are used in back to back test benches, between shaft connections to absorb misalignments.

Our JHC couplings are also used for both LS main shafts and functional test benches. In this case, they are installed between rigid connections shaft to shaft, with the purpose of clamping a dummy shaft and the gearbox in order to rotate the gearbox into a specific torque.

The JHC coupling can be easily engaged and disengaged, which improves the maintenance and testing times.



PERCEPTIVE TECHNOLOGIES® SERVICES



PERCEPTIVE TECHNOLOGIES®

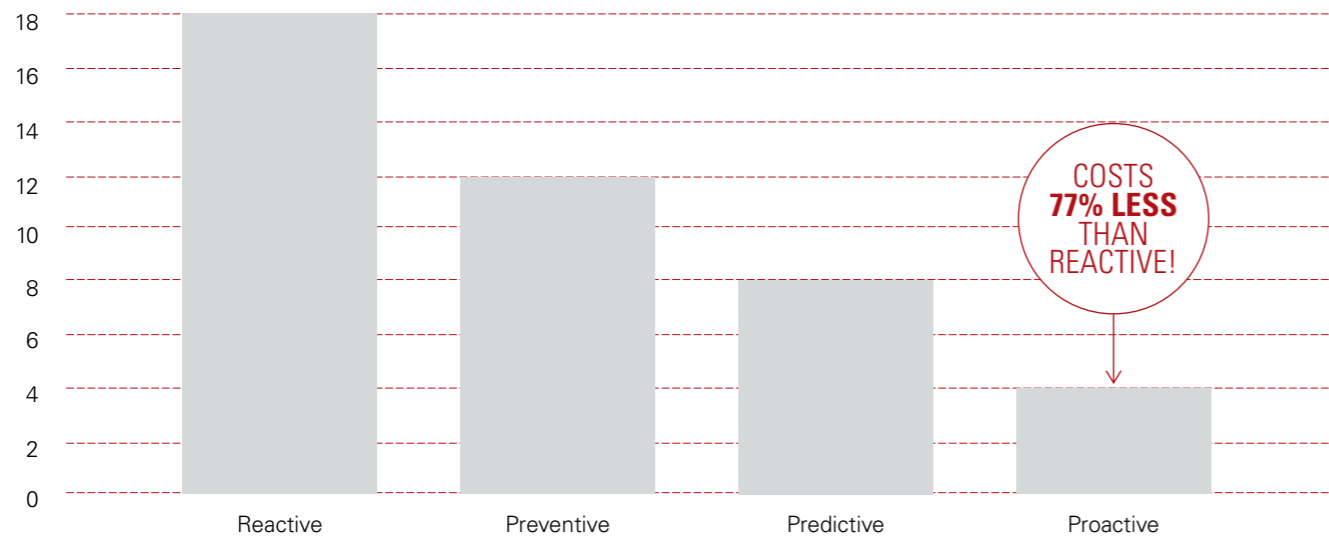
We combine our extensive electrical and mechanical power transmission product knowledge and our vast application experience with our diagnostic tools and troubleshooting expertise to provide complete technical service to our customers.

- Diagnostics
- Education
- Design
- Installation
- Monitoring
- Repair

SINGLE ON-LINE MONITORING SOLUTION TO DRIVE COSTS DOWN AND MAXIMIZE PROFITS

- On-line, 24/7 monitoring, analysis & alerting.
- Remote connectivity.
- Critical asset monitoring.
- Building Management System (BMS) integration.
- Maintenance system integration.
- Multiple facilities – single platform.
- Multiple data sources & types – single platform.

Maximize PROFITS. Move from REACTIVE to PROACTIVE maintenance.



JAURE® COUPLINGS MANUFACTURING PROGRAM



PRODUCT BRAND NAME	MT	LAMIDISC®	LAMILINK™	BARFLEX®	AL-S / AL-SD / ALD	IXILFLEX®	COMPOLINK®	JAUFLEX®	RECORD
TYPE & DESCRIPTION	Gear	Disc pack	Metallic Link	Barrel (drum type)	Gear spindles	Elastic Link	Composite Link	Elastic	Grid / spring type
INDUSTRY APPLICATION									
Metals & Heavy duty	•	•	•	•	•			•	•
Minerals & Mills	•	•	•	•				•	•
Crane & Hoisting	•	•	•	•				•	•
Pulp & Paper	•	•	•			•	•	•	•
Petrochemical / Oil & Gas	•	•	•				•	•	•
Cooling Towers		•	•				•		
Machine Tools		•	•				•	•	
Marine	•	•	•	•		•	•	•	
Wind Turbines		•	•			•	•	•	•
Test Benches	•	•	•			•	•		
Railway	•	•	•			•	•		

JAURE® COUPLINGS MANUFACTURING PROGRAM



PRODUCT BRAND NAME	JGFS / JCFS	JHC / JHC-HF	JFTL TORQUE LIMITER	JS NUT
TYPE & DESCRIPTION	Glass Fiber and Carbon Fiber Composite shafts	Hydraulic Coupling	Torque Limiter	Tensioner
INDUSTRY APPLICATION				
Metals & Heavy duty		•	•	•
Minerals & Mills		•	•	•
Crane & Hoisting			•	•
Pulp & Paper	•			•
Petrochemical / Oil & Gas	•			•
Cooling Towers	•			•
Machine Tools	•			•
Marine	•	•	•	•
Wind Turbines	•	•	•	•
Test Benches	•	•		•
Railway			•	•

KOPFLEX® & JAURE® COUPLINGS MANUFACTURING PROGRAM



PRODUCT BRAND NAME	MAX-C®	HIGH PERFORMANCE PROGRAM			KOP-FLEX GREASE	SERVICE
TYPE & DESCRIPTION	HEAVY DUTY ELASTIC COUPLING	GEAR	DISC	DIAPHRAGM	GEAR COUPLING / SPINDLE GREASE	REPAIR & MAINTENANCE PROGRAM
INDUSTRY APPLICATION						
Metals & Heavy duty	•				•	•
Minerals & Mills	•				•	•
Crane & Hoisting	•				•	•
Pulp & Paper					•	•
Petrochemical / Oil & Gas	•	•	•	•	•	•
Cooling Towers					•	•
Machine Tools					•	•
Marine	•	•	•	•	•	•
Wind Turbines	•				•	•
Test Benches	•	•	•	•	•	•
Railway	•	•			•	•

OUR LOCATIONS

MANUFACTURING FACILITIES & ENGINEERING CENTERS



Jaure® and Kop-Flex® engineered couplings are designed, manufactured, sold and serviced worldwide, with service provided from specification right through to installation.

Facilities around the globe are state of the art, with access to a large and experienced engineering staff

focused on providing solutions for our customers' requirements.

A dedicated global sales and service team assists you to find the best choice and manage all your coupling needs.

COUPLING MANUFACTURING FACILITIES



Zizurkil, Spain



Nove Mesto, Slovakia



Zhangzhou, China



Milwaukee - USA

ENGINEERING CENTER



Apodaca, Mexico



Pune, India

PTS HEADQUARTERS



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REGAL HEADQUARTERS



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APPLICATION CONSIDERATIONS

The proper selection and application of products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and/or its affiliates ("Regal") with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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REGAL®