



Wind Power Couplings









KOP-FLEX JAURE



JAURE® is leading the Windturbine coupling sector by **experience**, **manufacturing program**, **close cooperation and testing** with windmill manufacturers.

We make customized windmill couplings since the early beginning of the Windturbine business in Europe.

Now, with more than 15 years of **experience** we remain fully committed with the windmill market as a special business area in our company.

JAURE® windmill couplings include normally all components at the HSS such as torque limiters JFTL (increasingly used as a key component in the new windturbines), brake disc, spacers (electrically insulating available), offering a complete package to fit

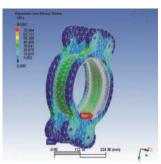
each specific Windturbine.

Our **program** includes torsionally flexible and torsionally rigid coupling, covering the whole range of power from 300 Kw up to 5 Mw, with our 3 well-known solutions through different product technology:



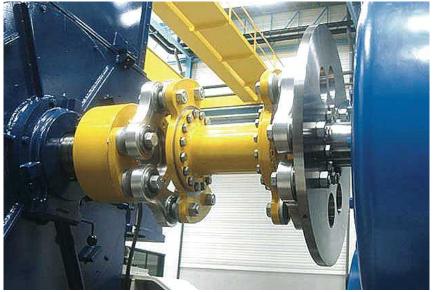
Ixilflex® Rubber link-type coupling















The IXILFLEX® link type coupling absorbs the misalignment through bushes that are linked to alternate flanges. Those bushes are made through the vulcanisation of rubber to metal parts under high precompression. Furthermore, the coupling can be runned bidirectionaly without the need to reverse the coupling for changing the direction of rotation.

- High misalignment.
- High torque capability.
- Bidirectional coupling.
- Torsional damping capability.
 - Very low restoring forces.
- Silent operation, transmitted noise reduced.
 - Easy replacement of elastic elements.
- Easy visual check of the condition of the rubber bushes.
 - Electrical isolation available.
 - G.L. Approvals.
 - Range from 600 Kw to 5 Mw.



Compolink® Composite link-type coupling





The new composite link coupling developed by **JAURE®**, is the result of combining the best features found in steel disc and elastomeric couplings.

High misalignment capacity, high torsional stiff and long service life with free maintenance makes the COMPOLINK® a unique coupling for windmills, especially for Multi-Mw. and offshore applications.

- High fatigue resistance for a long service life.
- High flexibility for increased misalignment capacity and very low reaction forces.
- Excellent corrosion resistance for reduced maintenance.
- Electrical insulation capability.
- Low weight for friendly installation and service.
- Maintenance free.
- High efficiency, insignificant heat generation.
- Zero backlash, low inertia and torsionally stiff.
- No fretting corrosion.
- G.L. Approvals.
- Range from 1.5 Mw to 5 Mw.

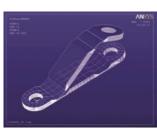


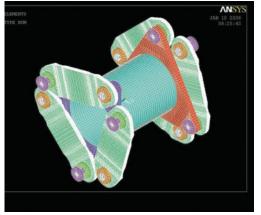




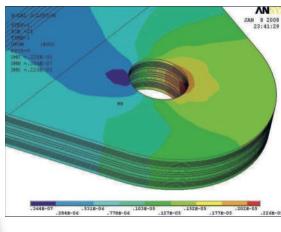


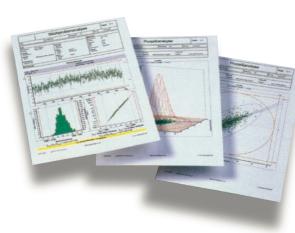
















Lamidisc® All steel coupling











The LAMIDISC® all-metal discs couplings, whose most outstanding features are the clearance-free torsional stiffness and the absence of maintenance, as far as lubrication is concerned, can be combined with composite tubes alternatively to steel spacer. Composites shafts are increasingly used in drive shafts and are replacing more traditional materials with considerable success. Thanks to glass fiber spacer excellent electrical insulation is achieved between gear box and generator, as well as lower weight in the intermediate shaft.

- High Power to weight ratio.
- No need for Jubrication and maintenance.
- Torsionally stiff without any backlash.
- Excellent electrical insulation.
- Light weight.
- Easy to handle.
- Torsional tuning.
- Coated discs available.
- No wearing parts, high resistance to hursh environmental conditions.
- Long life if properly aligned.
- G.L. Approvals.
- 4,6 and 8 bolt configuration disc packs.
- Range from 300 Kw to 5 Mw.



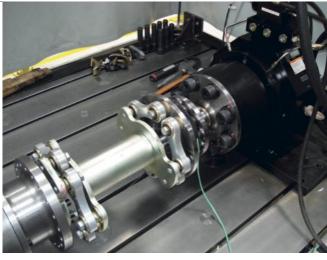


Torque limiters JFTL











The requirement of new Windturbines to protect the drive train from peak torques coming from short circuits of the generator is solved with our new JFTL (Jaure Integrated overload Safety System) whose main benefits are:

- The precision of slipping torque is designed for ± 10%.
- Automatically re-engaged. No operator maintenance needed.
- Factory assembled and calibrated to required slipping torque.
- Repeatability of the slipping torque accuracy.
- Tested in our company's own test bench.
- Traceability of each limiting torque through such testing.
- Compact design. Package solution with each Jaure coupling type is available.

JAURE®'s Engineering Department closely cooperates with customer's engineers and particularly designs the best tailor-made solutions for each windturbine.

Our windmill couplings reflect the stateof-the-art of this innovative market and we keep updated and provide the necessary optimised solution.

Cost effective & competitive solutions are obtained through large series, standarization and cost reduction from first development thinking and Product Life Management (PLM).

Couplings and transmission elements



MT crowned tooth gear coupling



LAMIDISC® all steel disc coupling



Barrel coupling TCB®/TCB-s[©]



High speed disc coplings LAMIDISC®HP



Gear spindles for rolling mills



RECORD flexible spring coupling



JAUFLEX® elastic coupling



IXILFLEX® link type elastic coupling







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APPLICATION CONSIDERATIONS

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The proper selection and application of power transmission 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 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 Emerson Power Transmission Corporation and its divisions with respect to the use of products and components is given in good faith and without charge, and Emerson assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accented at customer's risk. accepted at customer's risk.

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