

# Wind turbine generator locking disc

Zero-Max's flexible composite disc wind turbines feature a unique, patented composite disc design that can withstand harsh environmental conditions. Capable of withstanding up to 200,000 Nm of torque, these overload safety ...

In the renewable energy sector, wind turbines depend on High Tensile Fasteners and Technical Springs like disc springs and wedge lock washers to ensure structural stability and effectively manage dynamic loads. These critical ...

In this study, a rotor lock disc (RLD) in the generator rotor of a 2.5 MW permanent magnet direct-drive wind turbine generator was evaluated. Design load cases specifically for...

In fact, engineers designed the first wind turbine rigid disc couplings in 2008--and 13 years later, no modifications have been necessary. ... The rigid disc coupling mounts to the ...

A wind turbine (10) includes a first connecting structure (36) associated with the main shaft (34) fixed to a second connecting structure (40) of a rotor hub (22). A plurality of ...

Wind turbines require specialty, custom engineered fasteners for high stress applications and intense vibration that exist during operation. ... Bolt Products will distribute the patented Self ...

Dynamic Structural Design of Offshore Direct-Drive Wind Turbine Electrical Generators Pablo Jaen-Sola<sup>1</sup>, Alasdair S. McDonald<sup>1</sup>, Erkan Oterkus<sup>2</sup> <sup>1</sup>Wind and Marine Energy ... A versatile ...

Maintaining and operating wind turbines requires essential technical and troubleshooting skills. The Lab-Volt Wind Turbine Nacelle Training System offers hands-on training for real-world ...

1 Locking disk 3 Legs 1. Lock one leg onto the center hub. 2. Attach the two other legs in the same way. 3. Slide the locking disc onto the tower about 6" from the bottom end. Note: If it is a ...

This study presents design optimization of rotor lock disc in the generator rotor which was analyzed by applying the respective lateral force taken from machine load calculation for a 2.5 MW...

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