

Wind turbine generator locking disc



Overview

The rotor lock is activated by running the lock bolt into the lock disc using hydraulic power; a “locked” signal is then transmitted to the control system. Rotor locks are used in the wind turbine industry and are typically mounted to the turbine’s main rotor shaft, between gearbox. ROEMHELD has introduced new rotor locks that are designed to deliver increased availability and simplified maintenance to wind power plants. A new, special coating prevents the locking bolt from rusting when not in use for a long period and non-contact position monitoring avoids mechanical wear and. The LSM Rotor lock series serves as a manually applied safety feature, offered in multiple sizes. Specifically engineered to endure harsh operating conditions and withstand high radial loads, this safety component is essential as a locking device for wind turbine rotors to prevent any unintended. Fenner is a world leader in keyless locking devices, and MAV is acknowledged as the premium brand of multi-screw KLDs, synonymous with world class quality, engineering excellence, and unrivaled customer support. A rotor brake is primarily intended for use as safety brake during emergency stops under high wind conditions. 5 megawatts, from -30°C to +70°C.

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[Design Optimization of Rotor Lock Disc for Horizontal Axis Wind Turbine](#)

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

[A wind turbine impeller locking disc](#)

Broadly speaking, wind energy is also solar energy, so it can also be said that a wind turbine is a thermal energy generator that uses the sun as the heat source and the atmosphere as the



[Turbine Rated 'Rotorlock' Locking System](#)

At the heart of the Rotorlock system lies a double-action, hydraulically or electromechanically driven pin, ensuring swift and reliable locking of the rotor disc.



Wind Turbine Brakes

Our hydraulic (HLD) and mechanical (MLD) locking devices are custom engineered for a lightweight, high torque connection between the turbine main shaft and gearbox. Units are domestically manufactured ...



[SM Rotor Locks , Durable Wind Turbine Solutions
Regal Rexnord](#)

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ROTOR LOCK SOLUTIONS

The rotor lock is activated by running the lock bolt into the lock disc using hydraulic power; a "locked" signal is then transmitted to the control system. All Svendborg Brakes rotor lock units are engineered ...



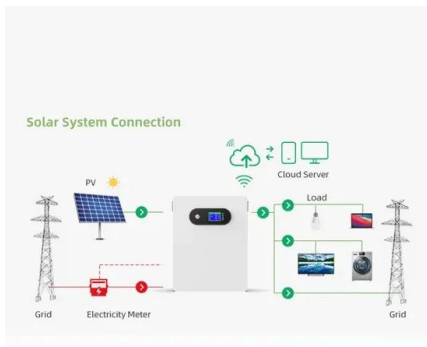
[Rotorlock , Römheld GmbH Friedrichshütte](#)

The Rotorlock from ROEMHELD reliably locked the rotor disc of wind turbines up to 6.5 MW (onshore or offshore). ROEMHELD linear actuators enable safe design of access and service doors in wind ...



Wind Turbine Components

JHS WTC is a flexible disc coupling mounted between gearbox and generator. It's a tailor-made solution for wind turbine applications (Type WTC = Wind Turbine Coupling).



[MAV KEYLESS LOCKING DEVICES FOR WINDMILL](#)

MAV external locking assemblies are designed to provide a backlash-free frictional connection between a shaft and a thin hub, like pinion gears and brake discs.

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