

Tail Furling and Brake Disc Mechanism Available on PowerMax+ Wind Turbines from A&C Green Energy

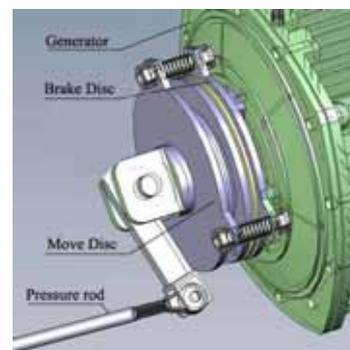
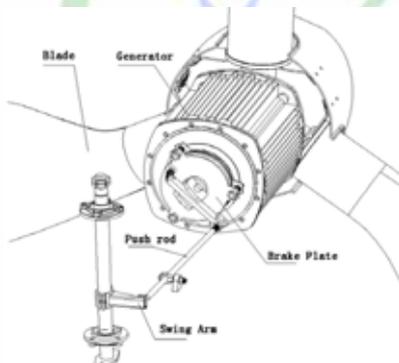


PowerMax+ 20kW with the tail furling to position the blades out of a direct wind.

- **What is Tail Furling and Braking Disc Mechanisms?** This is an advanced technology that protects your PowerMax+ upwind system from generator over-speed burnout. This system enables the PowerMax+ wind turbine to continually and efficiently produce power during higher winds.
- **How does this work?** At a wind speed of over 25m/s (56mph), there is a mechanical winch that automatically tightens a steel cable and adjusts the tail rudder; consequently, the turbine will pivot to gradually avoid the direct wind, slowing down the inherent shaft rotation speed.
- **Why is this important?** Higher winds turn the blades faster, which produces higher output wattage. That's good, but there is a certain rotation speed that can actually burn the generator and cause thousands of dollars in damage to your property. The PowerMax+ Tail Furling and Braking Disc Mechanism prevents this over-speed.
- **What does this mean to me?** The automatic tail furling and braking disc mechanism, found on the PowerMax+ series, will protect your wind energy investment and increase the longevity of the system.

Technical Explanation:

The yawing angle is adjustable: under a yawing angle of 45°-60°, the output power can be reduced to half, when the yaw angle is ~80°, the brake trigger attached on the tail pin will allow the braking rod to push the braking clip atop the motor shaft to slow down the rotation. This rotational speed regulation mechanism can also be triggered by the manual winch. The braking system will be triggered when the wind speed reaches 56 mph. This mechanism is driven by a motor which folds the tail, until the brake is applied to stop the generator. As a safety measure, PowerMax+ system will need to be manually restarted after high winds.



PowerMax+

For more information on the Tail Furling Mechanism, please contact your local PowerMax+ reseller. If you need help finding a PowerMax+ reseller, please contact A&C Green Energy at 866-WND-PWRD.