

# Wind Turbine Pitch Controller

This device is designed for independent electric pitch wind turbine control. Its structure and electrical design are validated to ensure reliable performance in demanding wheel hub environments.



## Product Overview

### Advanced Pitch Control for Wind Turbines

This independent electric pitch control device is engineered for reliable performance within the challenging environment of a wind turbine wheel hub. The unit is designed to maximize wind energy capture during low wind speeds while ensuring stable power output during high wind conditions. Furthermore, it provides critical safety features, enabling fast and reliable feathering in extreme failure scenarios to protect the turbine unit.

## Operational Capabilities

### Key Performance Metrics

**1 Optimized**

Low Wind Speed Capture

**1 Optimized**

High Wind Stability

### Primary Function

Independent electric pitch control

### Safety & Reliability

Fast feathering, Extreme failure protection, Stable power output

## Design & Environment

### Design Considerations

- Wheel hub environmental adaptation
- Robust electrical design
- Tested and validated structure