FP009 Pitch Control System

- The pitch control system adjusts wind turbine blade angles using pitch drives, motors and sensors.
- We have over 10 years of experience designing electric pitch systems for up to 8MW turbines with over 200m diameter.
- Our pitch control systems are widely used in both onshore and offshore wind power applications, with over 5000 installed worldwide.

✧ Technical Data

Driver Type	400Vac, up to 20kW/100A, (Pitch Controller & Charger Included)
Motor Type	PMSM with Brakes (IP54)
Limit Switch Type	Mechanical/ Inductive
Encoder Type	Absolute/Increase
Back-up Units	SuperCap/LIB/LAB
Cabinets	SS304 /CS with coating (IP54)
Cable Connections	IP65 with Harting Connectors
Communication	CANopen/Profibus-DP/etc.
EMC	According to IEC 61000-4
Grid Adaptability	LVRT/HVRT
Auxiliary Functions	Manual Operate/Blade Cal/Hub Fans/Centralized Lubrication/etc.

✧ Design and Service

Our company has the capability to simulate pitch control systems for wind turbines to determine the selection and structural design of various components. The pitch control system is designed according to the operational requirements of TC3A, ensuring the selections of drives, motors, backup power supplies and other major components meet the operational coverage requirements, and the designed lifetime reaches 20 years. The product design consistency with actual products is ensured through standardized type test procedures. At present, all our pitch products have passed certifications of relevant Chinese wind power standards, and completed certifications of major international standards according to customer requirements.

In addition, our company can also provide system models required for simulations, to assist customers in completing various pitch system tests and verification work for whole machine certifications. We provide customer training, whole machine commissioning and related on-site services to ensure the system meets design and application requirements.

Chengdu Forward Technology Co., Ltd.
1238, Hezuo Road, Chengdu Hi-Tech Zone, Sichuan Province, China Tel: +86 28 87988515 Fax: +86 28 87988512
www.forwardtek.cn