Trend setting technology in pitch drive solutions

Compact, dedicated pitch solutions of the 5th device generation.
LTI Motion – A strong partner.

LTI Motion offers many years of experience and a variety of references around electromechanical pitch control systems for onshore and offshore wind turbines.

- 20 years of application expertise in pitch systems
- Dedicated, trendsetting pitch drives designed and tested for extreme environmental conditions and highest availability at challenging sites
- More than 120,000 installed pitch controllers worldwide
- Quick response times thanks to local production and service
- Customized retrofit solutions
- Servo specialist with more than 45 years of experience in electrical drives technology
- Yaw solutions with cost-optimized multi-axis controllers

20 years of application expertise – A story of success and experience

Ever since wind turbines with active pitch control were introduced to the market, LTI Motion has been working with prominent wind turbine manufacturers and supported them in the optimization and continued development of their systems.

Early on LTI Motion – under the name of LUST at the time – started to adapt standard drive electronics to the rough environment and to tailor new developments to this type of application. Today, pitch drives include a multitude of application-specific hardware and software features – specially made for reliable blade pitching in onshore and offshore wind turbines.

Cost efficiency and flexibility for your preferred system architecture

Whether it’s 3 or 4, 6 or 7 box architecture, LTI Motion offers you a flexible platform for implementing your system architecture. We support you with a variety of cooling systems and fanless designs for flexible integration into control cabinets and rotating hubs.

Our next-generation pitch controllers provide built-in electronic charging systems and condition monitoring of lead-acid batteries and double-layer capacitors for your preferred backup power technology.

Daniel Geißbauer
Global Industry Management

Whether you are using DC motors, AC standard machines, or dynamic permanent magnet motors in SPM or IPM technology, LTI Motion can offer experience and references for your choice of control system.
Cost saving potential.

Utilising advanced technologies!

In the highly competitive power generation market, cost reduction is fundamental for the future of wind energy. The construction costs of a wind turbine account for 22% of the total cost. The cost of materials also play an important role, especially for materials with a high cost efficiency. New materials and processes, such as advanced composite materials, can help to reduce the cost of materials and increase the efficiency of the turbine.

Pitch systems reduce costs significantly

Even if the costs for a pitch system are comparatively low and only constitute 3% of the initial cost of a wind turbine, the increased safety and reliability of the system can justify the investment. In addition, the reduced maintenance and increased energy yield can further reduce the cost of the turbine.

Decentralised pre-control for incoming gusts

Evaluation of the blade sensor load data by the pitch control system is crucial for the safety and reliability of the wind turbine. In the event of high loads on the blades, the pitch control system activates the yaw control to reduce the load on the blades and prevent damage to the turbine.

Lowering the costs of electricity generation LCoE

The reliability of the pitch system is a critical factor for the safe operation of the turbine. Traditional systems are prone to malfunctions, which can lead to expensive repairs. New systems, such as the LTI Motion pitch control, can reduce the maintenance costs and increase the energy yield of the turbine.

Flexible and cost-efficient pitch design

The LTI Motion pitch control system is flexible and can be adapted to different turbine designs. The system can be easily integrated into the turbine design and can be used for both new and existing turbines.

High turbine availability

The LTI Motion pitch control system is designed for high availability and can reduce the downtime of the turbine. The system can be remotely controlled and can be updated over the internet, which reduces the time and cost of maintenance.

Lower operating costs OPEX

The LTI Motion pitch control system reduces the operating costs of the turbine. The system can reduce the wear and tear on the mechanical components, which can extend the life of the turbine.

Your benefits.

- Cost-efficient pitch design
- High turbine availability
- Lower operating costs OPEX
Fit for the future through bundled competencies

KEBA AG is an internationally successful electronics company with headquarters in Linz/Austria and locations worldwide. For 50 years, KEBA has been developing and producing according to the claim „Automation by innovation“ innovative automation solutions of the highest quality for a wide variety of industries.

LTI Motion GmbH, a technologically leading German supplier of drive solutions, has been part of the KEBA Group since the end of 2018. Both companies have years of experience in the areas of control and safety technology as well as servo drive technology. The bundled competencies result in complete solutions from a single source - appropriate for the respective industries.

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