

# Space for your ideas: Switch and control cabinets for wind energy



Pitch systems



Switch and control cabinets



Service



# We do everything. For you.

“Everything” is a good key word. We manufacture every conceivable type of cabinet at our locations in Germany and China. From top and tower boxes and portable control and hub simulation boxes to special solutions. These include, for example, cabinets for the grid integration of wind farms.

## Top and tower boxes.

All our cabinets, including standard configurations are fitted with high quality components – from the PLC to the fuses. A large number of additional options are also available.

## Control-boxes and hub simulation boxes.

Our portable control-boxes or hub simulation boxes enable your WTG to be controlled during assembly or start-up operations, making it possible, for example, to operate the blades without the main system.

## Custom solutions.

If you have a particular idea for a cabinet in mind, we can implement it. This includes, for example, a solution for your wind farm management system.



**i** **Top and tower boxes.**  
**Cabinet components:**  
 When you want the perfect, rather than the optimal solution: Every box is optionally extendable.

**Our standard configuration:**

- PLC for control of the pitch system, generator, converter, yaw motors, rotor speed sensor, temperatures, anemometer/wind vane
- Vibration sensors
- Grid monitor
- Fuses
- Lightning protection system
- Temperature range: -20 °C to +50 °C

**The options:**

- PLC systems of various manufacturers
- Display options: Standard monitor, touchscreen, laptop interface
- Add-on modules: Signal recording and evaluation for anemometer, wind vanes and vibration switches
- Climate packages:  
 Cold weather (-40 °C to +40 °C)  
 Hot weather (-10 °C to +55 °C)

# The path to your cabinet: Our services.

We plan, develop, and construct cabinets including cabling. We also equip them with all the necessary components for individual designs, prototypes and job order production.

We'll make everything. And you? You simply decide: Individual or customer specified. **Customer specified:** Even if you have the finished plans for your switch and control cabinets in your

pocket, you can take advantage of our production capacity and assembly line production. We will build your cabinets exactly to your specifications in job order production.



**i** Our services for all areas:

Individual manufacture and customer specified assembly line production. Including development, construction, product validation, component installation, cabling and functional testing as requested.

# Precision work sets standards: Our production.

All our cabinet models are built in assembly line production over an area of more than 162,000 ft<sup>2</sup> in Salzbergen in the Emsland region of Germany. For example, up to 20 top and tower boxes

can be completed per day. We test all prototypes under near exact WTG conditions before starting series production: Function tests are carried out under full load conditions on system test rigs.

Vibration and oscillation tests are also performed, as well as climate tests for components of all kinds. The climatic chamber provides a temperature range of -40 °C to approx. +60 °C.

We can produce everything for you: From prototype construction and small scale production of custom designs to assembly line series production.

Applied know-how transfer: The prototype production staff and engineers are connected via Intranet and work together on the respective prototype at the same time.

**i** The production system for assembly line production:

- Optimized material system
- Project teams
- Standardized procedures
- Optimized work organization
- Installation & machine maintenance
- Certified quality assurance



# Our quality at a glance.

## Our people.

- 400 highly motivated employees (including more than 50 developers)

## Our cabinet products.

- Switch and control cabinets, control and hub simulation boxes, custom solutions
- Custom designs, prototypes, pre-production series, small scale and series production

## Our services.

- Consulting, planning, development, construction, component installation, testing
- Assembly line production
- Job order production

## Our contact information.

- By telephone: Call our sales department: +49 5976 946 132
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