

# Wind turbine chassis



## Overview

The frame (chassis) consists of beams and longitudinal beams. It is the supporting base for the main equipment such as wind turbines, gearboxes and generators. Conventional horizontal axis turbines can be divided into three components, namely, the rotor component, the generator component and the structural support mast. The rotor. The main support tower is made of steel, finished in a number of layers of protective paint to shield it against the elements. A. A chassis (10) for a wind turbine mountable on a mast (26) comprises a frame (11) formed from one or more modular frame units (12, 14) suitable for housing wind turbine components therein. These massive structures present fundamental challenges in manufacturing, transportation, and assembly—while still needing to maintain precise aerodynamic properties. For transporting heavy, long, awkward windmill parts, Busby International WindMill Transport Chassis are the best solution. Our specialists design and develop flexible and modular transport solutions to support your entire value chain from your production.



## Article Content

### Basic Construction of Wind Turbine

This page shows and describes the major parts of a wind turbine including its supporting towers, nacelle, rotor blades, shaft, gearbox, generator,

### Transport Equipment | ENABL

Safe and cost-effective transport and storage equipment, designed to fit all sizes of wind turbine components onshore and offshore.

### Modular Systems for Wind Turbine Assembly

Explore innovative solutions that utilize modular components in the design and construction of wind turbines for easier transportation, assembly, and maintenance.

### WT-design\_Paris-2009-10-20

Wind Turbines – Components and Design Basics Dr.-Ing. Stephan Matthiesen Project Management Dipl.-Ing. (FH) Meik Schacknies Design Department Paris October 2009

### Long-fiber Thermoset Composites Market Report | Global Forecast

Wind turbine blade manufacturing consumes 800,000-1,000,000 metric tons of polyester composite annually, with utility-scale turbine blades utilizing polyester vinyl ester hybrid systems for enhanced

### Nacelle Equipment and Tower | Horizontal Axis Wind

Nacelle Equipment and Tower The nacelle is the core of the wind turbine, where the rotating machinery of the wind turbine can be converted into electrical energy.

### The Parts of a Wind Turbine: Major Components Explained

The chassis (10) improves the performance of the wind turbine by maintaining its stability by ensuring that the centre of mass is positioned over the mast. The chassis (10) also allows...

### DESIGN AND ANALYSIS OF WIND TURBINE NACELLE

For the damages caused to a wind turbine nacelle bed frame due to random vibration, the operating frequency of the existing transport frame was modified and dynamic analysis has been performed to

### Can old wind turbines speed up the transition to electric cars?

One common fear over the transition to electric cars is that it'll be held up by supply restrictions and increasing cost for the minerals needed for batteries and motors. Take neodymium,

### WindMill Transport Chassis and Dollies

Looking for a way to transport parts of a wind turbine system? Look no further than the WindMill Transport Chassis and Dollies from Busby International. Learn more [here](#).

Wind turbine: what it is, parts and working | Enel Group

Read all about the wind turbine: what it is, the types, how it works, its main components, and much more information through our frequently asked questions.

Anatomy of a Wind Turbine

Utility-grade turbines can be constructed of as many as 22 major component groups and 8,000 subcomponents, creating a multitude of

IE20090395A1

A chassis (10) for a wind turbine mountable on a mast (26) comprises a frame (11) formed from one or more modular frame units (12, 14) suitable for housing wind turbine components therein. Each frame

Nacelle (wind turbine)

A nacelle / nə'sɛl / is a cover housing that houses all of the generating components in a wind turbine, including the generator, gearbox, drive train, and brake assembly.

WO2010134059A1

A chassis (10) for a wind turbine mountable on a mast (34) comprises a frame (11) formed from one or more modular frame units (12, 14) suitable for housing wind turbine components therein. Each frame

Considerations for the structural analysis and design of wind turbine ...

The present review integrates the most relevant aspects and recent developments in the design, manufacture, and installation of wind turbine towers. This has been carried out with the

Drivetrain systems

Inside the nacelle, wind turbines vary considerably in terms of the type of powertrain used. The arrangement of the components in the nacelle is subject to different

Microsoft PowerPoint

In conventional wind turbines, the blades spin a shaft that is connected through a gearbox to the generator. The gearbox converts the turning speed of the blades 15 to 20 rotations per minute for a

Support vector regression-based fatigue damage assessment method

Fatigue damage assessment is critical for the structural design of the wind turbine nacelle chassis. However, existing fatigue damage indicators and assessment method cannot be both fast

Wind turbines and how they work

Nacelle: this is the main chassis of the wind turbine. It is located at the top of the tower and inside it is the electrical and mechanical elements necessary

The MultiMAX with special chassis construction for wind

The MultiMAX with special chassis construction for wind turbine tower segments Two variants for loading heights from 730 mm in the driving position. The height

## Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://creperielamauvaisegraine.fr>

Email: [sales@creperielamauvaisegraine.fr](mailto:sales@creperielamauvaisegraine.fr)

Phone: +33 6 48 37 91 02

Address: 12 Rue de la Paix, 75002 Paris, France

This document is for informational purposes only. Specifications subject to change without notice.

