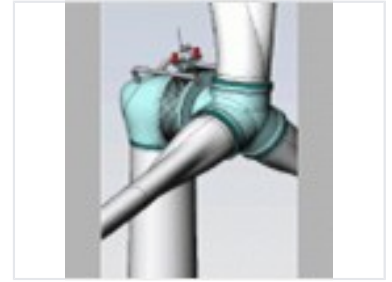


5MW Direct-Drive Wind Turbine

This is a 5MW direct-drive wind turbine designed for efficient energy conversion. The turbine features a direct-drive mechanism, eliminating the need for a gearbox and reducing maintenance.



General Overview

5MW Direct-Drive Wind Turbine

The 5MW Direct-Drive Wind Turbine is an advanced power generation solution engineered for efficient energy conversion. Featuring a permanent magnet synchronous generator and a robust direct-drive design, this system eliminates the need for a gearbox, significantly reducing mechanical wear and maintenance requirements. The turbine includes comprehensive integrated systems for pitch, yaw, and control, ensuring optimized performance across varying wind conditions.

Technical Specifications

Rated Power Capacity

5 MW

Power Rating

Major Components

- Rotor blades
- Rotor hub assembly
- Nacelle cabin
- Permanent magnet synchronous generator
- Pitch control system
- Yaw system
- Power converters
- Control systems
- Support tower

Technology Type

Direct-Drive • Permanent Magnet Synchronous