

Automatic Lubrication for the Yaw System

BENEFITS

- Eliminate over- and under-greasing
- Improve component lifetime
- Increase turbine reliability and efficiency
- Reduce risk of damage and unplanned downtime

TURBINE PLATFORMS

V52-0.85MW
V66-1.65MW
V80-1.8/2.0MW
V90-1.8/2.0MW

Offering quick return on investment by increasing turbine availability and preventing component failure

Wind turbines face demanding conditions that put a great strain on the operating units. Although the height imposes additional challenges for turbine maintenance, proper lubrication is essential to ensure safe and efficient operations of your turbine. Vestas has therefore introduced automatic lubrication for the yaw system.

The automatic lubrication for the yaw system helps to prevent wear due to metallic contact between rolling elements. Delivering the smallest effective amount of grease at predefined intervals, the system reduces friction and prevents contamination. The lubrication system is designed to withstand temperature extremes, environmental influences and vibrations of the wind turbine.

By installing the automatic lubrication system you ensure correct lubrication of the yaw ring. This will help you to maintain the turbine's efficiency and durability. Our automatic lubrication system has proven to increase turbine reliability, while reducing operating expenses. As a result of these improvements, this upgrade has become a standard feature in new turbines.

Get in touch with us today

Visit vestas.com or contact your local Vestas service office and get to know more about how automatic lubrication can improve the performance of your turbines.

TECHNICAL DESCRIPTION

- The lubrication system consists of a programmable lubrication pump, two lubrication pinions, a hose and an agitator which stirs the grease.
- The lubrication pinions are made from special open-pore foam and connected to the pump and agitator with tubes.
- The lubrication system does not require yaw movements for lubrication.
- The lubrication pump is programmable and pumps a predefined amount of grease into the lubrication pinions at specific time intervals
- For optimal alignment with the yaw gear, the design of the mounting brackets allows vertical and horizontal adjustment of the lubrication pinion.
- The system prevents over-lubrication, ensuring efficient consumption and minimized pollution.