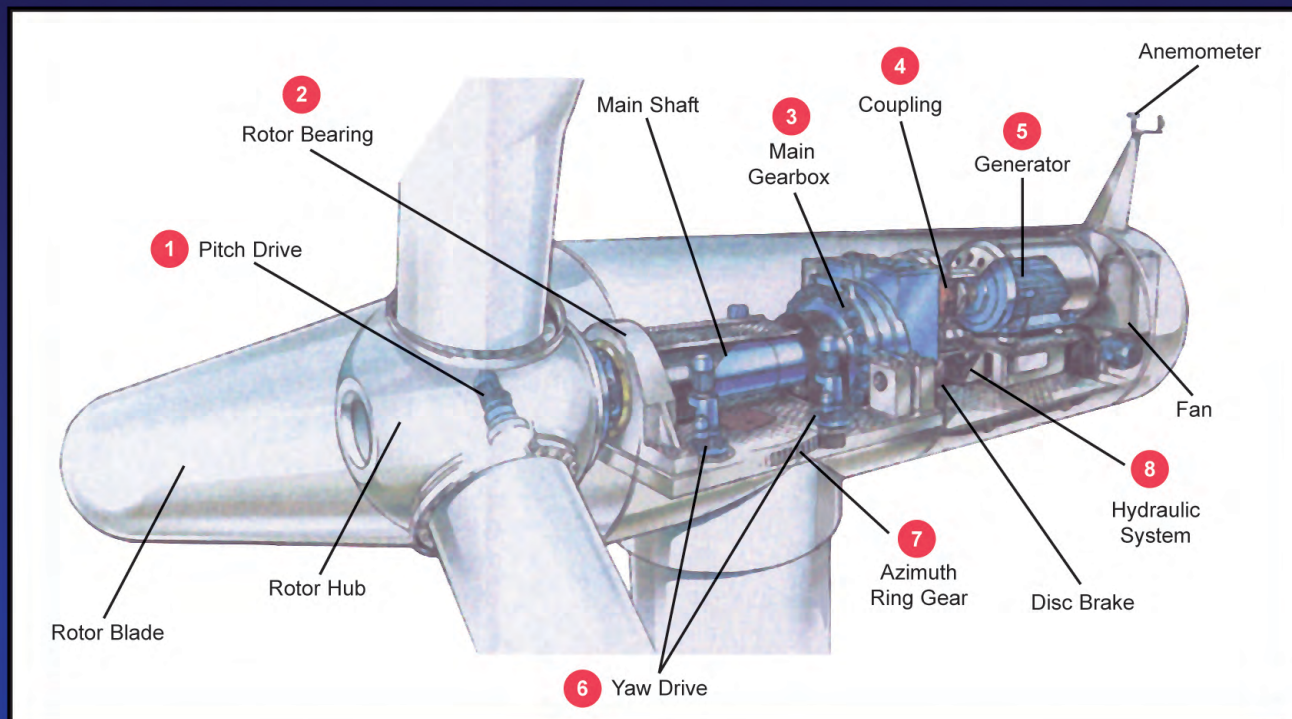




Lubricants for **WIND POWER PLANTS**



NO.	DESCRIPTION	LUBRICANT	BIO-LUBRICANT
1	Pitch Drive	RENOLIT HLT2 RENOLIT PU8-061/2	PLANTOGEL 2S
2	Rotor Bearing	RENOLIT PU8-061/2	PLANTOGEL 2S
3	Main Gearbox	RENOLIN PG RENOLIN CLP PLUS RENOLIN UNISYN CLP	PLANTOGEAR S
4	Coupling	RENOLIT EPX1 RENOLIT PU8-061/2	PLANTOGEL 2S
5	Generator Bearing	RENOLIT HLT2 RENOLIT PU8-061/2	PLANTOGEL 2S
6	Yaw Drive	RENOLIN PG RENOLIN CLP PLUS RENOLIN UNISYN CLP	PLANTOGEAR S
7	Azimuth Ring Gear: - Gear Rim - Roller Bearing	RENOLIT H443-HD88	PLANTOGEL 2S
8	Hydraulic System	RENOLIN MR RANGE	PLANTOHYD S PLANTOSYN HVI



World Leaders in lubricants
from renewable resources





Lubricants for **WIND POWER PLANTS**

The past 20 years have seen amazing advances in wind power technology but the maintenance and lubrication of wind turbines still remains a concern. Their remote locations and extreme environments, such as in offshore fields, make accessibility for routine maintenance increasingly difficult and costly.

To cope with the severe environmental and mechanical pressures that wind turbines must endure, FUCHS, the world's largest independent lubricant manufacturer, has developed a complete product portfolio that satisfies all areas of application.

The range includes products based on renewable, synthetic esters that offer enhanced oxidation and corrosion resistance, and improved long-term operational performance. The products are manufactured to the highest standards, meeting industry and OEM specifications, and are used in wind power plants worldwide.

PLANTOGEAR S SERIES

Environmentally aware industrial gear and lubricating oils containing synthetic esters that offer high resistance to aging, good load carrying and excellent wear and corrosion protection.

PLANTOGEL 2S

Rapidly biodegradable, multipurpose, lithium/calcium soap based grease for highly stressed roller and friction bearings. Non-toxic and classified in water hazardous class 1.

PLANTOHYD S RANGE

Environmentally aware, synthetic hydraulic and lubricating fluids with a natural cleaning capacity. 46 S has been awarded the "Blue Angel" environmental seal.

PLANTOSYN HVI

High performance, environmentally aware, synthetic hydraulic and lubricating oil. Classified in water pollution category 0 and awarded the "Blue Angel" environmental seal.

RENOLIN CLP PLUS

Long term gear oil with outstanding detergent/dispersant properties for highly-stressed bearings, joints, pressure screws, spur gears and worm gears.

RENOLIN MR RANGE

Special zinc containing HLP-D lubricating and hydraulic fluids with excellent corrosion protection, superb stick-slip behaviour and outstanding detergent / dispersant properties.

RENOLIN PG SERIES

Synthetic polyalkylene glycol based EP gear oils for highly stressed crown, bevel, planetary and worm drive gears. Helps to lower oil temperatures and extend oil change intervals.

RENOLIN UNISYN CLP RANGE

High performance synthetic gear oils, based on polyalphaolefins. Specifically designed for use in extreme temperatures. Passes FAG 4 step tests for wind turbine oils (FE8 bearing tests).

RENOLIT EP X1

Heavy duty, lithium soap based grease designed for heavily loaded applications. Contains enhanced additives and high viscosity base oil to minimise wear and increase load carrying capacity.

RENOLIT H443-HD88

High performance lithium soap based EP grease. Suitable for plain and roller bearings operating under high loads, at high temperatures and in humid atmospheres.

RENOLIT HLT2

Synthetic lithium soap based grease designed for long term applications. Extremely adhesive and resistant to high mechanical and thermal loads, even in salty environments.

RENOLIT PU8-061/2

Semi synthetic high temperature grease, containing a special poly urea based thickener, for plain and roller bearings. Provides optimal lubricity over a wide temperature range.

Please note that Product and Material Safety Data Sheets for all grades are available upon request. The most suitable product should be selected after consulting the equipment manufacturer, the operator, manufacturers of ancillary machinery and the lubricant manufacturer.



FUCHS LUBRICANTS (UK) PLC

New Century Street, Hanley, Stoke-on-Trent, ST1 5HU

Tel: +44 (0) 8701 200 400

Fax: +44 (0) 1782 202 072

Email: contact-uk@fuchs-oil.com

Website: www.fuchslubricants.com