Centralized Lubrication System for Wind Turbines

- Reduce friction and wear, save the equipment's life,
- Precise and metered lubrication, low-carbon, green and environment.
- Safe and reliable, decreasing maintenance cost.
- Remotely monitored, timely controlled system's working state.
**Centralized Lubrication System**

Herg offers wind turbine lubrication system solutions that are applicable for blade bearings, pitch bearings, main bearings, yaw bearings and generators. And we offer the whole systems included piston grease pump, progressive distributor, lubrication pinion gears, pipes and fittings, to guarantee your equipment's lubrication.

Herg lubrication system have a very high efficiency for wind turbine lubrications, an extremely long lifetime and they are virtually maintenance free for your turbines, it performs under the most extreme temperatures. Regardless of what your wind turbine’s design. Herg can give the satisfactory lubrication solution of your equipment at the right time.

![Centralized Lubrication System Diagram](image)

**Advantage of Herg Automatic Lubrication**

1. Fill grease automatically, reduced work intensity and safety issues of operation and serviceman.
2. Precise and nonstop lubrication, avoid improper lubrication caused by human factors.
3. Reasonable internal of grease injection to extend the service life of the wind turbine.
4. Avoid over-filling grease, no wasted lubrication for environmental pollution.
5. The system is available with low level sensor and dragging sensor to facilitate remote monitoring.

Herg (Foshan) Intelligent Equipment Co., Ltd. was established in 2004 and is a leader in centralized lubrication system industry in China, which reformed by Herg (Foshan) Automotive Lubrication System Manufacture Co., Ltd. The company located in Foshan, Guangdong Province and occupied an area of 50,000 square meters. We are specialized in centralized lubrication system manufacturing with R&D, marketing and service.

We have decades of lubrication system experience to meet the needs of market with our high quality products and we develop effective system to guarantees high quality of the parts. As a Chinese pioneer in the lubrication system industries, our lubrication products, schemes and solutions are widely applied for wind power industries, construction machines and port equipment, railway transport, automotive chassis, machine tools and so on. We gain world-class cooperative partner like SANY, MENGZIANG, XEME, ECRG, XCMG, SHANGHAI ELECTRIC, DAE and so on. Our products have been exported to USA, Germany, Spain, Brazil, Poland, Belarus, Turkey, India and so on.
Automatic Centralized Lubrication System

Like any other mechnical system, wind turbine systems need proper lubrication to be guaranteed the function optimally. Extensive mechanical loads, contamination and moisture, temperature etc. all threats to bearing and gear system. The automated lubrication system can be a helper to supply lubrication products more reliably and precisely to moving components in the nacelle.

In the territory of China, many wind turbine manufacturers are growing the wind turbine on the farm with HERG lubrication system. As HERG automatic lubrication systems operate more reliably and efficiently in the most extreme environments, and it is much more competitive than others.

Progressive Lubrication Products for Wind Turbines

ZJYA Type High Pressure Grease Pump
- Controller: PLC controlled, self program controller
- Operating Voltage: DC24V
- Max. Working Pressure: 150Bar
- Oil Tank: Available for 2L, 4L, 8L, 12L
- Pumping Unit: Available for 1 set or 2 sets
- Option: With low liquid level sensor, with scraper
- Application: Main Bearings, Yaw Bearings, Yaw Geens and Generators

SD2 Progressive Distributor
- Structure: Modular Block
- Max. Working Pressure: 350Bar
- Working Block QT: 310HRC
- Outlet: 1-26
- Discharge capacity: 0.1L/min
- Alarming Sensor: Optional
- Advantages: Flexible combination, convenient maintenance and easy detection

ZJYA Type High Pressure Grease Pump
- Structure: Mono Block Valve
- Max. Working Pressure: 150Bar
- Discharge capacity: 0.25L/min
- Outlet: 1-24HMI(3-24DE)
- Alarming Sensor: Optional
- Advantages: Compact size and flexible, with vertical cross porting SD (horizontal cross porting D71)
Single-line Lubrication System for Wind Turbines

Regardless of whatever used, the single-line lubrication system is the grease pump automatically delivers the lubricant through a single supply line distributor to the lubricating points. Each lubricating point is linked to only one lubrication point and adjusted the precise amount of lubricant to the lubrication points.

HERG single-line lubrication system consists of ZH-ZHA type high pressure grease pumps, OF type single-line distributor, pressure detector and monitoring devices, high pressure tube and fittings. And we specialized wind turbines to design according to customer's requirement.

ZH type High Pressure Grease Pump
• Controller: PLC controlled, Soft program controller
• Operating Voltage: DC24V
• Max. Working Pressure: 350Bar
• Oil Tank: Available for 4L, 8L, 16L, 32L
• Pumping Unit: Adjustable for 1 to 3 sets can be combined into one outlet
• Option: With low liquid level sensor, with scraper, with pressure relief device
• Application: Main bearings, pin bearings, gear bearings and generators

OF type single-line Distributor
• Structure: Single line Grease Distribution
• Max. Working Pressure: 350Bar
• Outlets: 0.6, 1, 2, 3, 5, 8, 10mm
• Discharge capacity: 0.05, 0.1, 0.2, 0.3, 0.4 l/min
• Advantage: High flow rate, convenient maintenance with automatic cycle indicator, parallel working mode

Other Lubrication Accessories
• Grease Disposal Collector 250ml/400ml (Disposal)
• Grease Disposal Collector 250ml/1L (Recycle-Usage)
• Tubes and Fittings Assay
• Fan Power Lubrication System (Aluminum Alloy)
• Fast Power Lubrication System