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南京讯联液压技术股份有限公司
NANJING SOLINER HYDRAULIC TECHNOLOGY CO.,LTD.

风电齿轮箱润滑冷却过滤系统

WIND POWER GEARBOX LUBRICATION COOLING FILTRATION SYSTEM

ABOUT SOLINER

关于讯联

南京讯联液压技术股份有限公司成立于2003年，是一家液压过滤器、传感器、风电润滑系统、液压件的领先制造商。产品广泛应用于工程机械、冶金、航空航天、风力发电、机床、石油、化工、船舶等行业。作为一家以客户为中心的公司，我们努力为客户提供高品质的产品和服务。我们拥有完善的研发能力和先进的生产设备，致力于创新和卓越。

Founded in 2003, Nanjing Soliner Hydraulic Technology Co., Ltd. is a leading manufacturer of hydraulic filters, sensors, wind power lubrication systems and hydraulic components. The company's products are widely applied in construction machinery, metallurgy, aerospace, wind power, machine tools, petroleum, chemical, shipbuilding and other industries. As a customer-oriented company, we strive to provide our customers with high-quality products and services. With complete research and development capabilities and advanced production equipments, we are committed to innovation and excellence.

／
研发·生产·销售·服务
R&D · Production · Sales · Service



HONOURS & CERTIFICATION

荣誉资质

21
发明专利
invention patents

53
实用新型专利
utility model patents

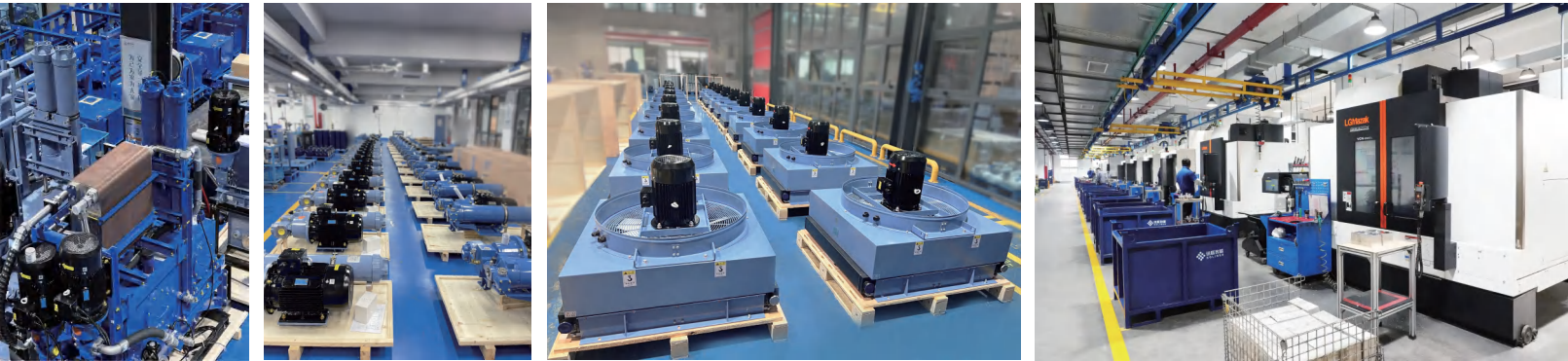


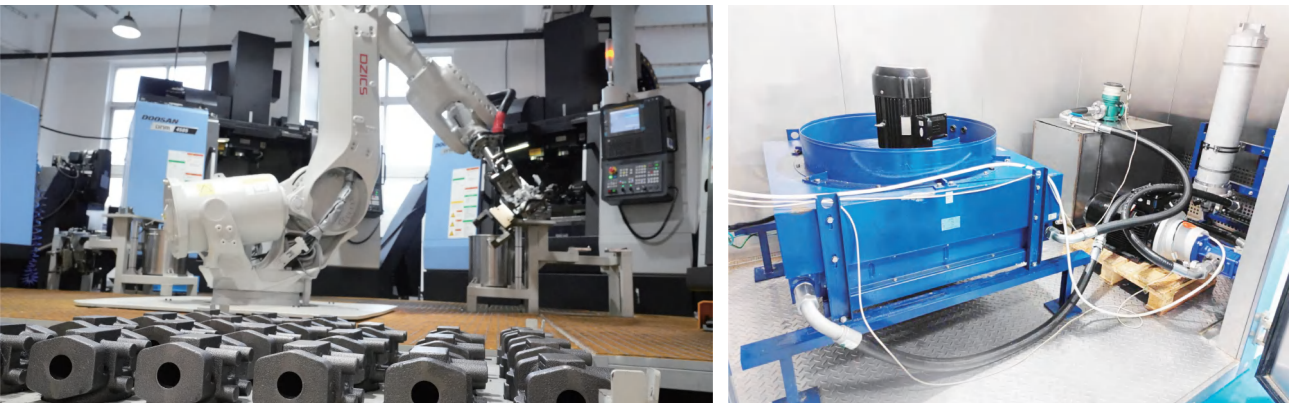
ADVANCED MACHINING CENTER

先进加工中心

讯联拥有合计35000㎡的生产车间，包含机加工车间、恒温电磁阀车间、恒温珩磨车间、钣金车间、滤芯车间、液压装配车间。各类专业智能化生产设备，如日本Mazak柔性生产线、DOOSAN智能加工单元岛、德国Peter Wolters磨床、美国SUNNEN珩磨床、德国进口滤芯生产线、智能化仓储设备等等。

Soliner, as a manufacturing enterprise, has a total of 35,000 square meters of production workshops, including machining workshops, temperature-controlled solenoid valve workshops, temperature-controlled honing workshops, sheet metal workshops, filter workshops, and hydraulic assembly workshops. The company possesses a variety of professional intelligent production equipment, such as Mazak flexible production lines, Japanese intelligent processing unit islands, German-made original forming grinding machines, German Roboski filter production lines, intelligent storage equipment, and so on.





TECHNICAL TESTING CENTER

技术检测中心

讯联拥有合计3200m²各类实验室，包含风力润滑系统综合性能、高低温试验、液压过滤、冷却器换热性能、结构综合性能等多个专业实验室。同时也拥有大量优秀技术人才，有完善的产品研发体系。

Soliner has a total of 3200 square meters of various types of laboratories, including comprehensive performance of wind lubrication systems, high and low temperature testing, hydraulic filtration, heat transfer performance of coolers, and comprehensive performance of structures, among other professional laboratories. At the same time, it also has a large number of outstanding technical personnel and a comprehensive product development system.



标准化的过滤技术检测中心洁净程度达10000级，配以先进的污染度分析仪器。承担公司的科研、生产、过滤技术检测和试验。可以完成液压过滤器性能评定的七种标准试验项目：

- ISO16889 液压传动-过滤器-测定过滤性能的多次通过法。
- ISO2941 液压传动-滤芯-抗破裂的验证。
- ISO2942 液压传动-滤芯-结构完整的验证。
- ISO2943 液压传动-滤芯-材料与液体的相容性的验证。
- ISO3723 液压传动-滤芯-端向载荷试验方法。
- ISO3724 液压传动-滤芯-流体疲劳特性的验证。
- ISO3968 液压传动-滤芯-压降流量特性的评定。



Standardized filtration technology testing center, the cleanliness of which is up to 10000 standard, equipped with advanced contamination analyzer, and has undertaken the company's scientific research, production, filtration technology inspection and testing.

Seven test items for evaluating filtration performance of hydraulic filter can be completed by the center.

- ISO16889 Hydraulic fluid power - filters - Multi-pass method for evaluating filtration performance of a filter element.
- ISO2941 Hydraulic fluid power-Filter elements-Verification of burst resistance.
- ISO2942 Hydraulic fluid power - Filter elements-Verification of fabrication integrity.
- ISO2943 Hydraulic fluid power-filter elements-Verification of material compatibility with fluids.
- ISO3723 Hydraulic fluid power - Filter elements-Method for end load test.
- ISO3724 Hydraulic fluid power - Filter elements-Verification of fluid fatigue.
- ISO3968 Hydraulic fluid power-Filters-Evaluation of differential pressure versus flow characteristics.

LUBRICATION SYSTEM CONFIGURATION

润滑系统配置

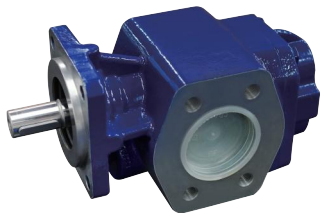


行业知名特种电机
Well-known Special Motor



采用进口高纳污量滤材，纳污容量是进口普通滤材的两倍以上，过滤效率更高，压降更小。使用寿命更长。

Use Imported Filter Material With High Dirt Holding Capacity, which Is Twice Over The General Imported Filter Material.the Filtration Efficiency Is Higher, Pressure Drop Is Lower And Lifetime Is Longer.



德国进口齿轮泵
Germany-imported Gear Pump



稳定的传动系统
Stable Transmission System

采用国外知名品牌，性能优越稳定。
Procurement From International Well-known Company With Reliable And Excellent Performance



德国进口压力传感器
Pressure Sensor Imported From Germany

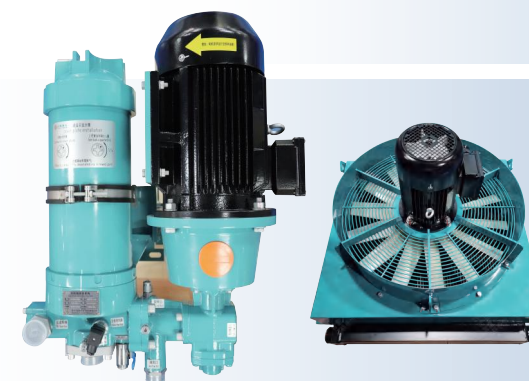


冷却器 Cooler
导风罩结构优化改进，并增加导流装置，提升散热效率
Mechanical Improvement On Wind Scooper And Additional Diversion Devices Lead To Higher Heat Dissipation Efficiency.

01 WIND POWER LUBRICATION SYSTEM SERIES PRODUCTS

风电润滑系统系列产品

适用机型: 1.5MW
Applicable models: 1.5MW



产品简介 PRODUCT INTRODUCTION

过滤装置 (含电机泵组和过滤器)
Filter Unit (Including Motor Pump Set and Filter)
风冷却器 Air Cooler

02 WIND POWER LUBRICATION SYSTEM SERIES PRODUCTS

风电润滑系统系列产品

适用机型: 2-2.5MW
Applicable models: 2-2.5MW

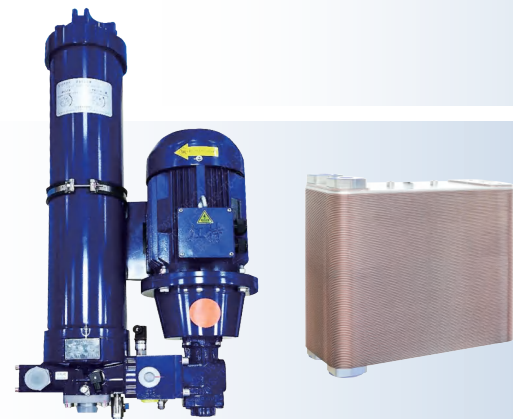
产品简介 PRODUCT INTRODUCTION

过滤装置 (含电机泵组和过滤器)
Filter Unit (Including Motor Pump Set and Filter)
风冷却器 Air Cooler



03 WIND POWER LUBRICATION SYSTEM SERIES PRODUCTS

风电润滑系统系列产品



适用机型: 3.XMW
Applicable models: 3.XMW

产品简介 PRODUCT INTRODUCTION

过滤装置 (含电机泵组和过滤器)
Filter Unit (Including Motor Pump Set and Filter)
油水冷却器 Oil-water cooler

05 WIND POWER LUBRICATION SYSTEM SERIES PRODUCTS

风电润滑系统系列产品



适用机型: 5.XMW
Applicable models: 5.XMW

产品简介 PRODUCT INTRODUCTION

电机泵组 Motor Pump Sets
双过滤器 Dual Filter
油水冷却器 Oil-water Cooler

04 WIND POWER LUBRICATION SYSTEM SERIES PRODUCTS

风电润滑系统系列产品



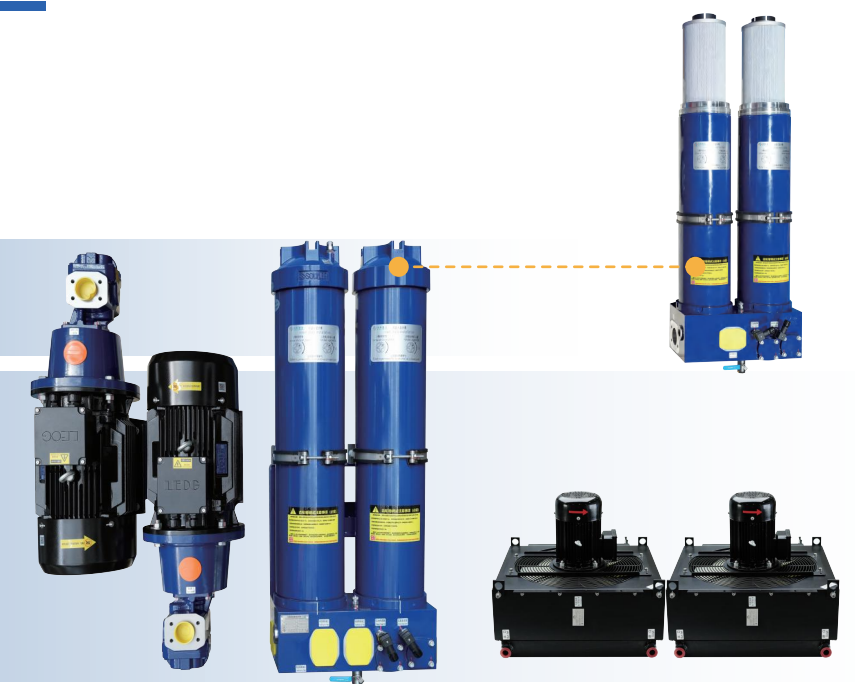
适用机型: 4.XMW
Applicable models: 4.XMW

产品简介 PRODUCT INTRODUCTION

过滤装置 (含电机泵组和过滤器)
Filter unit (including motor pump set and filter)
双风冷却器 (含安装支架)
Dual air cooler (including mounting bracket)

06 WIND POWER LUBRICATION SYSTEM SERIES PRODUCTS

风电润滑系统系列产品



适用机型: 6.XMW
Applicable models: 6.XMW

产品简介 PRODUCT INTRODUCTION

双电机泵组 Dual Motor Pump Pet
双过滤器 Dual Filter
双风冷却器 Double Air Cooler

07 WIND POWER LUBRICATION SYSTEM SERIES PRODUCTS

风电润滑系统系列产品

适用机型: 7-10MW
Applicable models: 7-10MW

产品简介 PRODUCT INTRODUCTION

独立油箱 Independent Tank
三电机泵组 Three Motor Pump Sets
双过滤器 Dual Filter
双风冷却器 Double air cooler



08 WIND POWER LUBRICATION SYSTEM SERIES PRODUCTS

风电润滑系统系列产品

适用机型: 9-10MW
Applicable models: 9-10MW

产品简介 PRODUCT INTRODUCTION

双电机泵组 Dual Motor Pump Pet
双过滤器 Dual Filter
油水冷却器 Oil-water Cooler



09 WIND POWER LUBRICATION SYSTEM SERIES PRODUCTS

风电润滑系统系列产品

适用机型: 14MW Applicable models: 14MW

三电机泵组 Three-motor pump set 三过滤器 Triple filter
双油水冷却器 Double oil water cooler



10 WIND POWER LUBRICATION SYSTEM SERIES PRODUCTS

风电润滑系统系列产品

适用机型: 18MW Applicable models: 18MW

四电机泵组 Four-motor pump set 四过滤器 quad filter
三油水冷却器 Three oil water cooler



11 WIND POWER LUBRICATION SYSTEM SERIES PRODUCTS

风电润滑系统系列产品

适用机型: 750kW
Applicable models: 750kW

产品简介 PRODUCT INTRODUCTION

电机泵组 Motor Pump Sets
过滤器 Filter
风冷却器 Air Cooler



12 WIND POWER LUBRICATION SYSTEM SERIES PRODUCTS

风电润滑系统系列产品

适用机型: 850-950kW
Applicable models: 850-950kW



产品简介 PRODUCT INTRODUCTION

集成阀组(含过滤器、压差发讯器和压力开关)
Integrated Valve Group (Including Filter, Pressure
Differential Transmitter And Pressure Switch)



13 OFFLINE FINE FILTER SYSTEM 离线精滤系统

油液精滤监测系统 Oil Fluid Refined Filtration Monitoring System

离线精滤+污染度监测 型号: OFS-27/27A

离线精滤系统的滤芯过滤精度 $3\mu\text{m}$ 。油液污染度检测范围 $1 \sim 100\mu\text{m}$ ，输出标准ISO4406、GB/T14039、NAS1638等。

Offline Fine Filter System with Contamination Monitoring, Model Number: OFS-27/27A

The offline fine filter element has a filtration rate of $3\mu\text{m}$. The oil contamination detection range is 1 to $100\mu\text{m}$, and its output standards comply with ISO4406, GB/T14039, NAS1638, etc.

离线精滤+污染度及水分监测 型号: OFS-27/27B

离线精滤系统的滤芯过滤精度 $3\mu\text{m}$ 。监测系统可检测油液污染度等级+水分，污染度检测范围 $1 \sim 100\mu\text{m}$ ，输出标准ISO4406、GB/T14039、NAS1638等；水活性检测范围0-1aw，含水量：0~1000ppm。

Offline Fine Filter System with Contamination and Moisture Content Monitoring, Model Number: OFS-27/27B

The offline fine filter element has a filtration rate of $3\mu\text{m}$. The monitoring system can detect oil contamination levels and water, with a contamination detection range of 1 to $100\mu\text{m}$, and its output standards comply with ISO4406, GB/T14039, NAS1638, etc. Water activity detection range: 0 to 1aw, water capacity: 0 to 1000ppm.

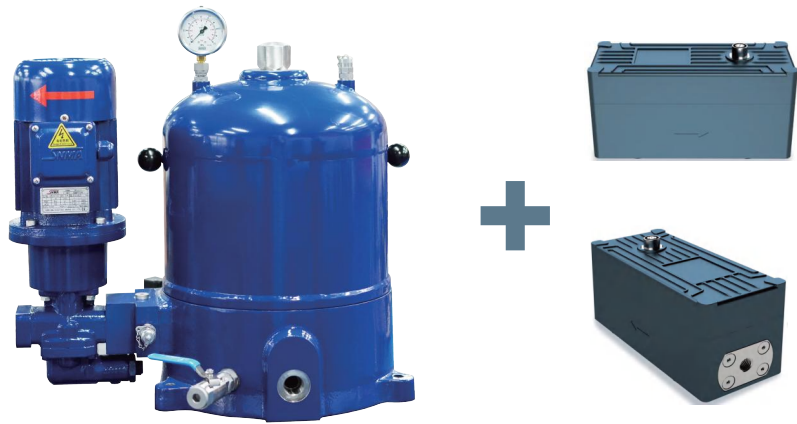


◎ 离线精滤+多功能（铁磁磨损等）监测 型号：OFS-27/27C
◎ 离线精滤+多功能（铁磁磨损等）及运动粘度监测 型号：OFS-27/27D

Offline Fine Filter System with Multifunction (Ferromagnetic Wear, etc.) Monitoring, Model Number: OFS-27/27C;
Offline Fine Filter System with Multifunction (Ferromagnetic Wear, etc.) and Kinematic Viscosity Monitoring, Model Number: OFS-27/27D

离线精滤系统的滤芯过滤精度3μm。
多功能监测系统可检测油液磨损铁磁颗粒30-800μm、非铁磁颗粒120-1600μm、含水率0.03-100%、粘度10-1500Cp、密度600-1500kg.m3、温度-20-85℃。

The offline refined filtration system's filter element has a filtration accuracy of 3μm. The multifunctional monitoring system can detect oil fluid wear particles such as ferromagnetic particles ranging from 30 to 800μm, non-ferromagnetic particles from 120 to 1600μm, water content from 0.03 to 100%, viscosity from 10 to 1500 Cp, density from 600 to 1500 kg/m³, and temperature from -20 to 85℃.



◎ 离线精滤+金属颗粒监测系统 型号：OFS-27/27E

离线精滤系统的滤芯过滤精度3μm。金属颗粒监测系统可检测油液金属颗粒最小30μm，非铁磁颗粒最小120μm。

Offline Fine Filter System with Metal Particle Monitoring System, Model Number: OFS-27/27E

The offline precision filtration system's filter element has a filtration accuracy of 3μm.
The metal particle monitoring system can detect metal particles in the oil fluid as small as 30μm and non-ferromagnetic particles as small as 120μm.



清洁度监测系统、主路多功能油液传感器
Cleanliness Monitoring System; Mainstream Multifunctional Oil Fluid Sensor

◎ 循环泵+污染度检测 型号：SQJ-01
Circulation Pump + Contamination Monitoring Model Number: SQJ-01



清洁度监测系统的额定工作压力为50bar。油液污染度检测范围1~100μm，输出标准ISO4406、GB/T14039、NAS1638等。

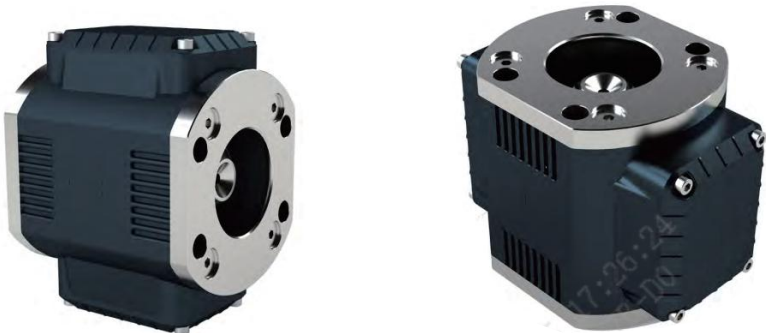
The cleanliness monitoring system has a rated working pressure of 50bar. The oil fluid contamination detection range is 1~100μm, with output standards including ISO 4406, GB/T 14039, NAS 1638, etc.

主路多功能油液传感器 型号：SZL-01
主路多功能油液传感器 型号：SZL-02

Mainstream Multifunctional Oil Fluid Sensor, Model Number: SZL-01
Mainstream Multifunctional Oil Fluid Sensor, Model Number: SZL-02

可检测油液磨损颗粒30-800μm、含水率0.03-100%、粘度10-1500Cp、密度600-1500kg.m3、温度-20--85℃。
可选配运动粘度、粘度指数、电导率。

It can detect oil fluid wear particles ranging from 30 to 800μm, water content from 0.03 to 100%, viscosity from 10 to 1500 Cp, density from 600 to 1500 kg/m³, and temperature from -20 to 85℃. Optional features include kinematic viscosity, viscosity index, and conductivity.



14 OMS SERIES ON-LINE OIL MONITORING SENSOR

OMS系列在线油液监测传感器



15 WIND POWER WATER COOLING SYSTEM SERIES PRODUCTS

风电水冷系统系列产品

◎ 适用机型: 3-7MW Applicable models: 3-7MW

变频器水冷系统 Water Cooling System For Frequency Converter

水冷泵站 (含水泵组、温控阀和膨胀罐)

Water-cooled Pump Station (Including Pump Set, Temperature Control Valve and Expansion Tank)

风冷却器 Air Cooler



16 WIND POWER WATER COOLING SYSTEM SERIES PRODUCTS

风电水冷系统系列产品

◎ 适用机型: 5-10MW Applicable models: 5-10MW

变流器水冷系统 Water Cooling System For Converter

水冷泵站 (含水泵组、三通执行器和双膨胀罐)

Water-cooled Pumping Station (Including Pump Set, Three-Way Actuator and Dual Expansion Tank)

风冷却器 Air Cooler



17 PORTABLE OIL PURIFIER MACHINE 移动式滤油车

产品简介 PRODUCT INTRODUCTION

过滤油液、给设备添加油液

Filter Oil, Add Oil To Equipment

配备污度检测仪, 具有污染度检测功能

Equipped with a contamination detector,
with contamination detection capability



After Market Filter Element 售后滤芯

Wind Power Gearbox Lubrication System,
Air Humidity Filter,
Hydraulic Station Filter Element

风电齿轮箱润滑系统滤芯、空气吸湿过滤器、液压站滤芯



AFTER MARKET SPARE PART TABLE FOR

WIND POWER GEARBOX LUBRICATION SYSTEM,
AIR HUMIDITY FILTER,
HYDRAULIC STATION FILTER ELEMENT

风电齿轮箱润滑系统滤芯、空气吸湿过滤器、液压站滤芯售后备件表

序号 serial number	产品名称 product name	型号（原） model (original)	本公司滤芯型号 company's filter element model
1	滤芯 Filter Element	1300R010BN4HC/-B4-KE50	FDEH-1300R10/50W15M
2	滤芯 Filter Element	2600R10BN4HC/-B4-KE50	FDEH-2600R10/50W20M
3	滤芯 Filter Element	HC8300FKS30H-YC11	FDEP-0900R10/50W15M
4	滤芯 Filter Element	HC8300FKS39H-YC11	FDEP-1200R10/50W20M
5	滤芯 Filter Element	01NR.1000.32227.10VG25G.25.BV.-S1	FDEI-0600R10/25W15M
6	滤芯 Filter Element	01NR.1000.32227.10VG25G.25.B.V-S1 +01.NR.1000.6VG10.B.V-	FDEI-1500R10/25W20M
7	滤芯 Filter Element	EET002-10F10W25B	FDEC-0800R10/25W15MB
8	滤芯 Filter Element	EET001-10F07W25B	FDEC-1500R10/25W20M-M
9	滤芯 Filter Element	EET983-10F07W25B	FDEC-1200R10/50W20MB
10	滤芯 Filter Element	ALX-RC-01	FDEA-0800R10/25W15M
11	滤芯 Filter Element	TLJ0030F010N	SF-TLJ0030F010N
12	滤芯 Filter Element	FDES-3000R10/50W40MB	FDES-3000R10/50W40MB
13	滤芯 Filter Element	FDEC-1600R10/50W40MB	FDEC-1600R10/50W40MB
14	滤芯 Filter Element	FDEC-1500R10/50W20M	FDEC-1500R10/50W20M
15	滤芯 Filter Element	G01369Q	SF-PK0001Y
16	滤芯 Filter Element	/	FDEH-2200R10/25W20M
17	空气吸湿过滤器 Air Humidity Filter	DC-4	DAF-RDC-4
18	空气吸湿过滤器 Air Humidity Filter	DC-3	DAF-RDC-3
19	空气吸湿过滤器 Air Humidity Filter	SDBL096	DAF-RSD-96
20	空气吸湿过滤器 Air Humidity Filter	BDH-400	DAF-RHD-400
21	空气吸湿过滤器 Air Humidity Filter	SDBL096	DAB-90-150
22	空气吸湿过滤器 Air Humidity Filter	SDBL121	DAB-120-255
23	离线精滤芯 offline fine filter element	B 27/27	G 27/27

Aftermarket Spare Parts 售后备件

After-sales Spare Parts List for Wind Power Gearboxes 风电齿轮箱售后备件表



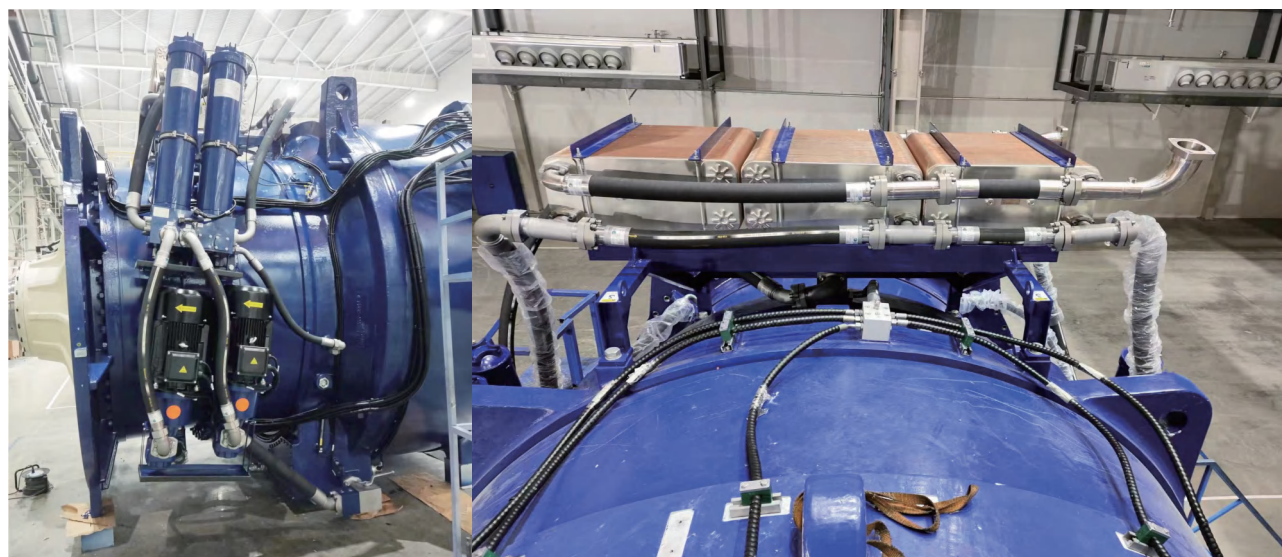
序号 serial number	备件名称 spare part name	供应情况 availability	备件厂家 spare part manufacturer	备注 remarks
1	润滑系统滤芯 Lubrication system filter element	有	南京讯联 Soliner	讯联
2	液压站滤芯 Hydraulic Station Filter	有	南京讯联 Soliner	讯联
3	吸湿空气过滤器 Humid Air Filter	有	南京讯联 Soliner	讯联
4	温控阀 Thermostat Valve	有	南京讯联 Soliner	德国进口/国产
5	胶管组件 Rubber cube set	有	南京讯联 Soliner	讯联
6	齿轮泵 Gear Pump	有	南京讯联 Soliner	Kracht' Rickmeier/
7	散热器(芯体) Radiator assy (core)	有	南京讯联 Soliner	OEM
8	压力传感器 Pressure Sensor	有	南京讯联 Soliner	德国进口/讯联
9	温度传感器 Temperature Sensor	有	南京讯联 Soliner	德国进口/讯联
10	集成阀组 Integrated Valve group	有	南京讯联 Soliner	讯联
11	压差发讯器 Pressure Differential Transmitter	有	南京讯联 Soliner	讯联
12	测压软管 Piezometric tube	有	南京讯联 Soliner	讯联
13	压力表 Pressure Gauge	有	南京讯联 Soliner	WIKA/国产
14	联轴器 Coupling	有	南京讯联 Soliner	KTR,REIJAY/国产

PARTIAL ACHIEVEMENTS

部分业绩

讯联企业在过往的发展历程中，取得了诸多亮眼的成绩。就部分业绩而言，在产品销售方面，成功拓展多个新市场，销售额同比大幅增长。产品凭借卓越品质与创新性能，在市场上备受青睐，实现了多方应用。

During its past development process, Xunlian Enterprise has achieved numerous remarkable accomplishments. In terms of partial achievements, in terms of product sales, it has successfully expanded into multiple new markets, and the sales volume has increased significantly year-on-year. Thanks to their excellent quality and innovative performance, the products have been highly favored in the market and have achieved multiple applications.



TECHNICAL MODIFICATION SERVICES

售后技改服务

一直以来极为重视售后技改服务，始终秉持着客户至上的理念。公司组建了一支专业素养极高、经验十分丰富的售后团队，他们能够迅速响应客户需求。无论是设备的升级改造，还是故障排查修复后的性能优化，都能凭借精湛的技术和严谨的态度，为客户提供优质、高效且贴心的售后技改服务，深受广大客户的赞誉与信赖。

Our company has always attached great importance to after-sales technical modification services and has always adhered to the principle of putting customers first. The company has assembled an after-sales team with extremely high professional proficiency and rich experience. They are able to respond promptly to the needs of customers. Whether it is the upgrading and renovation of equipment or the performance optimization after troubleshooting and repair, they can, with their exquisite techniques and rigorous attitudes, provide customers with high-quality, efficient and considerate after-sales technical modification services, which are highly praised and trusted by our numerous customers.



PARTNERS

合作单位



ENVISION
远景能源



运达风电
WINDEY



SINOVEL
华锐风电



上海电气
SHANGHAI ELECTRIC



联合动力
United Power



ANVISI 安维士



DEC
东方电气



NGC



MINGYANG ELECTRIC
明阳电气



GOLDWIND
金风科技



SANY



中国中车
CRRC



中国国电
CHINA GUODIAN



华建天恒
T E E K



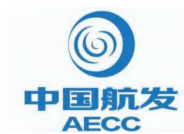
CSIC
中船重工



ZF



德力佳



中国航发
AECC

SOLINER

SERVICES MILES

讯联服务万里行

我们的售后服务在质量上追求卓越
服务团队精通专业知识和技能，能迅速、准确地为客户提供所需服务
服务流程响应迅速，问题解决及时，快速提供详尽且可靠的解决方案
售后服务范围广泛，提供全面的技术支持和咨询服务
确保客户在使用产品过程中无后顾之忧。

Our after-sales service strives for excellence in quality.
Our service team is proficient in professional knowledge and skills, capable of quickly and accurately providing the services which customers needed.
We respond to problems quickly and promptly, providing detailed and reliable solutions
We offer comprehensive technical support and consulting services.
Ensuring customers have no concerns during the use of our products.

责任
RESPONSIBILITY

坚持
INSIST

梦想
DREAM