



陕西北方风力机电有限责任公司

SHAANXI NORTH WINDPOWER ELECTROMECHANICAL CO.,LTD

地址：陕西省宝鸡市 Shaanxi Baoji

网址：www.snwe.com.cn



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公司简介

Company Profile



陕西北方风力机电有限责任公司，作为一家以风力发电设备零部件、石油深井钻测设备零部件和城市轨道交通零部件设计、研发和制造为一体的先进制造企业，拥有精良的生产设备和专业的检测设备，具有合金结构钢、不锈钢、钛合金、镍基合金等轴类、管类、盘类、环类及复杂零部件加工能力，具有年产风力发电机电机轴 10000 件、能量管10000 件、行星销 20000 件、风力发电机零部件 120 万件、电机冷却器 1000 台的综合生产能力。

公司位于陕西省宝鸡市陈仓区，占地面积 21000 平方米，紧邻连霍高速、陇海铁路，距离西安咸阳国际机场 130 公里。公司具有进出口自营资质，能通过国际各大物流公司的航空、海运、中欧班列将产品交付到世界各地。

公司建立了完整的质量保证体系，取得了19项专利技术，先后通过了 ISO/9001:2015 质量管理体系认证；ISO14001:2015 环境管理体系认证；ISO 45001:2018 职业健康安全管理体系认证；ISO3834 国际焊接体系认证；美国石油协会 API 认证，通过了陕西省高新技术企业、国家专精特新企业认定，获得了质量标杆企业荣誉。

公司始终秉持“让用户满意，让用户持续成功”的理念，以优质的产品和优良的服务回报每一位客户，公司与 Vestas,ZF,Flender,GE,Indar,Eickhoff 等国际知名公司长期合作，已成为Vestas,ZF和Flender等公司的战略供应商，产品销往德国、比利时、西班牙、印度、巴西、美国、塞尔维亚等国家。

Shaanxi North Wind Power Electromechanical Co., Ltd, a company specialised in metal material machining with 17 years of experience in know-how, subcontracting designing, R&D, and manufacturing of wind power turbine parts, oil drilling and measuring equipment parts, and urban rail transit parts.

The company is equipped with a large scale of sophisticated machinery and professional testing equipment with which to process the metal materials as alloy structural steel, stainless steel, titanium alloy, nickel-based alloy, for the forms like shaft, tube, disk, ring, and complex parts with an annual output of 10,000 pcs wind turbine rotor shafts, 10,000 pcs energy tubes, 20,000 pcs planetary pins, 1,200,000 pcs wind turbine parts , and 1,000 pcs turbine air coolers.

The company is located in Chencang District, Baoji City, Shaanxi Province, covering an area of 21,000 square meters, next to the Lianhuo Highway and the Longhai Railway line, and 130 kilometers from Xi'an Xianyang International Airport, which guarantees punctual logistics to all parts of the world.

The company has established a complete quality assurance system and holds 19 patents. It has successively obtained the following certifications: ISO 9001:2015 Quality Management System, ISO 14001:2015 Environmental Management System, ISO 45001:2018 Occupational Health and Safety Management System, ISO 3834 International Welding Requirements, and API (American Petroleum Institute) Certification. Furthermore, the company has been recognized as a Shaanxi High-tech Enterprise and a National Specialized, Refined, Differential and Innovative Enterprise, and was awarded the honor of Quality Benchmark Enterprise.

Adhering to the philosophy of “Deliver Customer Satisfaction and Drive Sustained Customer Success,” the Company rewards every client with premium products and excellent services. It maintains long-term partnerships with globally renowned enterprises, including Vestas, ZF, Flender, GE, Indar, and Eickhoff, and has become a strategic supplier to Vestas, ZF, Flender, and other corporations. Products are widely sold to Germany, Belgium, Spain, India, Brazil, the United States, Serbia and other countries of the world.



轴管销类零件
Shaft,pipe & pin Products

发电机电机轴——辐板轴
Generator Rotor Shafts-Web Shaft



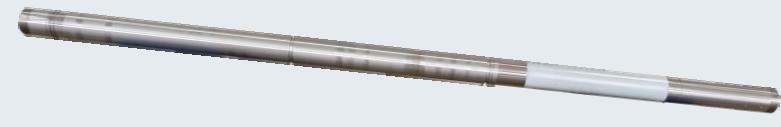
重量约: 3200Kg 总长: 3505mm 轴最小直径: 225mm 轴最大直径: 270mm
轴表面粗糙度: Ra0.6 辐板外圆直径: 715mm 六片辐板均匀焊接
Weight is about:3200Kg Total length:3505mm Minimum diameter of shaft:225mm Maximum diameter of shaft:270mm
The surface roughness of the shaft is:Ra0.6 Outer diameter of shaft plate:715mm Six webs are welded evenly

发电机电机轴——阶梯轴
Generator Rotor Shafts-Stepped shaft



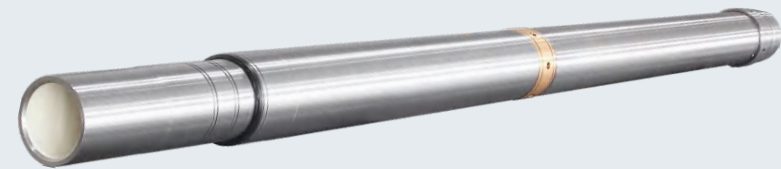
重量: 841Kg 总长: 3099mm 最大直径处: 250mm 钻孔直径: 40mm 多方向斜孔
Weight:841Kg Total length:3099mm Maximum diameter:250mm Drilling diameter:40mm Multi-directional inclined hole

齿轮箱零件——普通能量管
Gearbox parts-Ordinary energy tube



重量: 130.48Kg
总长: 4350mm
最大外圆直径: 200mm
内径: 155.7mm
壁厚最薄处: 6.3mm
Weight:130.48Kg
Total length:4350mm
Maximum outer diameter:200mm
Inner diameter:155.7mm
The thinnest wall thickness is:6.3mm

齿轮箱零件——焊接能量管
Gearbox parts-Welded energy tube



重量: 112Kg
总长: 2270.5mm
最大外圆直径: 182mm
内径: 153mm
壁厚最薄处: 5mm
Weight:112Kg
Total length:2270.5mm
Maximum outer diameter:182mm
Inner diameter:153mm
The thinnest wall thickness is:5mm

齿轮箱零件——行星销
Gearbox parts-Planet Shaft



重量: 1020Kg
最大外圆直径: 470mm
最小外圆直径: 427mm
总长: 922.5mm
大端面钻深孔直径: 24.5mm
深度: 59.3mm
小端面钻深孔直径: 120mm
深度: 503mm
Weight:1020Kg
Maximum outer diameter:470mm
Minimum outer diameter:427mm
Total length:922.5mm
Drilling a deep hole with a diameter of 24.5mm on the large end face
Depth:59.3mm
Drilling a deep hole with a diameter of 120mm on the small end face
Depth:503mm

零部件系列产品
Components Series Products

大型结构件——翻转支撑
Large structural parts-Turnover support



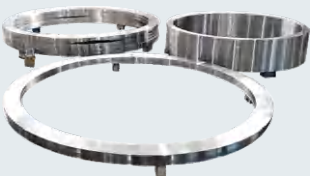
装配体直径: 2.7米
重量约: 1300Kg
由12个零件组成
结构复杂
加工精度要求高
Assembly diameter: 2.7 meters
Total weight is about: 1300Kg
Assembled from: 12 parts
Complex structure
High processing accuracy requirements

大型结构件——极轮
Large structural parts-Polar wheel



重量约: 3200Kg
最大外圆直径: 1624mm
最小内圆直径: 1090mm
高度: 1304mm
整体钻孔: 530个
壁厚最薄处: 53.5mm
Weight about: 3200Kg
Maximum outer diameter: 1624mm
Minimum inner diameter: 1090mm
Height: 1304mm
Surface drillings: 530pcs
The thinnest wall thickness: 53.5mm

盘类零件——转子支撑
Disc parts-Rotor support



重量约: 300Kg
最大外圆直径: 1180mm
最小内圆直径: 752mm
高度: 348mm
表面钻孔: 84个
壁厚最薄处: 10mm
Weight about: 300Kg
Maximum outer diameter: 1180mm
Minimum inner diameter: 752mm
Height: 348mm
Surface drillings: 84pcs
The thinnest wall thickness: 10mm



轴承风扇
Bearing Fan



轴承盖
Bearing Cover



密封盖
Sealing Cover



转子风扇
Fan Rotor



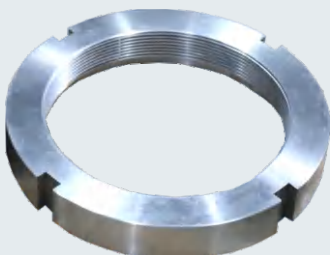
不锈钢叶轮
Stainless Steel Impeller



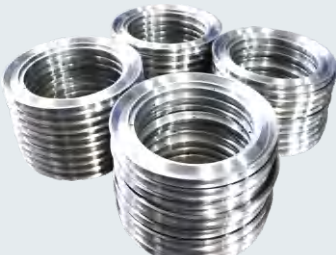
铸铝风扇
Aluminum Casting Fan



太阳挡圈
Sun Retainer Ring



轴螺母
Shaft Nut



配油环
Oil Distribution Ring



铜电刷
Copper Brush



联轴器胀套
Coupling Expansion Sleeve



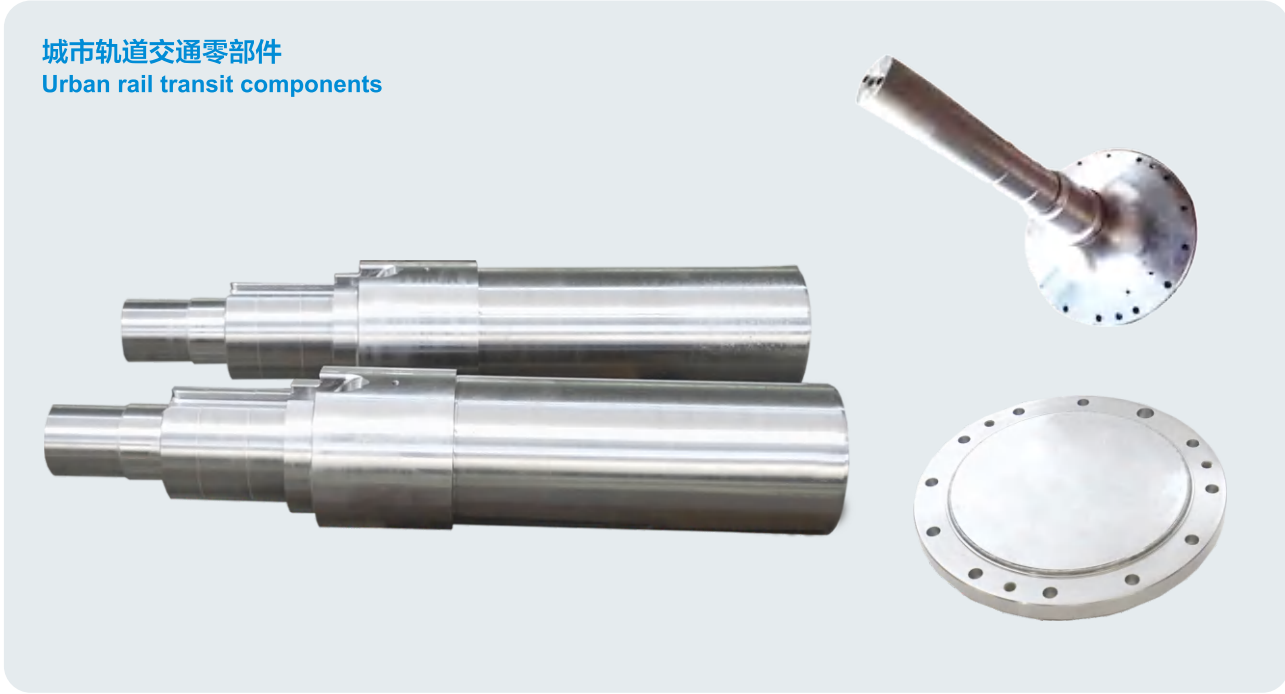
油位开关盒
Oil Level Switch Housing

零部件系列产品
Components Series Products

石油深井钻测设备零部件
Components of oil deep well drilling and testing equipment



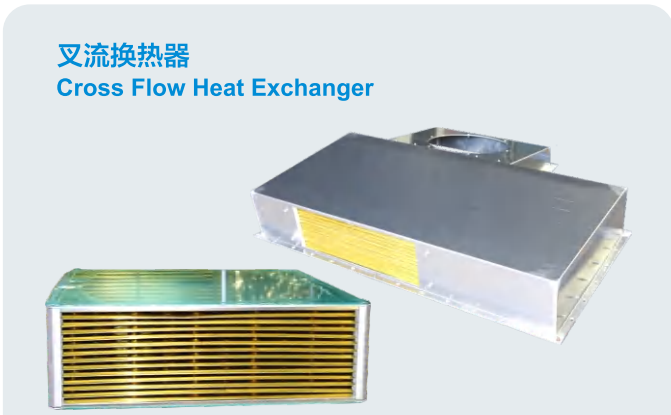
城市轨道交通零部件
Urban rail transit components



发电机冷却器
Generator Cooler



叉流换热器
Cross Flow Heat Exchanger



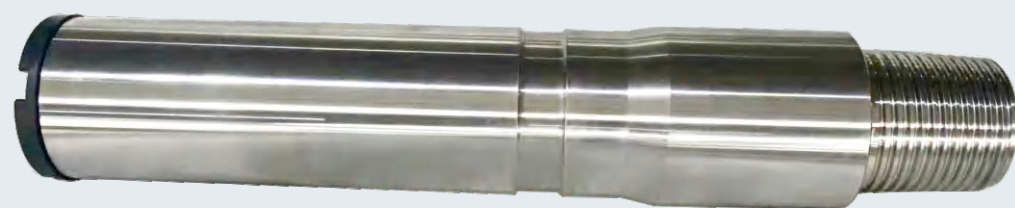
热交换容量: 3.8kW	Heat exchange cap:3.8kW
型号: KKKL-2MW	Model:KKKL-2MW
内部风量: 1800m³/h	Air volume:1800m³/h
冷却风量: 1000 m³/h	Coling air volume:1000 m³/h
外部出风温度: 40℃	External outlet air temp: 40℃
内部进风温度: 62℃	Internal inlet air temp:62℃
内部风压: 280Pa	Internal air pressure:280Pa
外部风压: 350Pa	External air pressure:350Pa
重量: 12.1kg	Weight:12.1kg

空水冷却器
Air-water cooler



热交换容量: 62kW	Heat exchange cap:62kW
型号: KSL-2.2MW	Model:KSL-2.2MW
风量: 8500 m³/h	Air vollne:8500 m³/h
进水温度: ≤55℃	Inlet water temp :≤55℃
冷却水量: 8.1-9 m³/h	Coling vater voline:8.1-9m³/h
出水温度: 63.5℃	Outlet air temp:63.5℃
水压降: 0.075MPa	Water pressure drop:0.075mpa
进风温度: 90℃	Inlet air temp: 90℃
工作压力: 0.2-0.4MPa	Working water pressure:0.2-0.4MPa
重量: 350kg	Weight:350Kg

石油钻铤

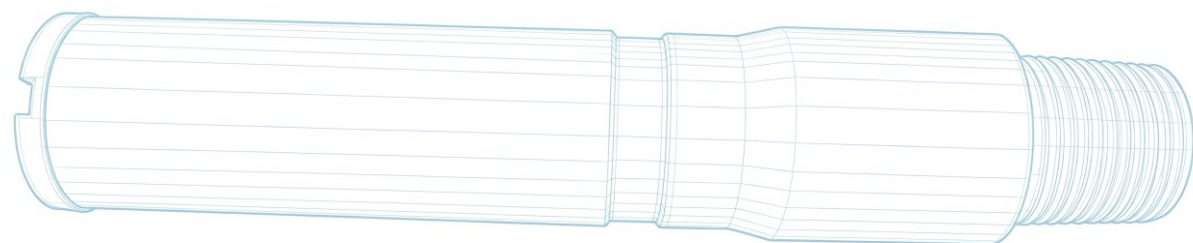


规格: $\varnothing 130.17 \times 684.5$

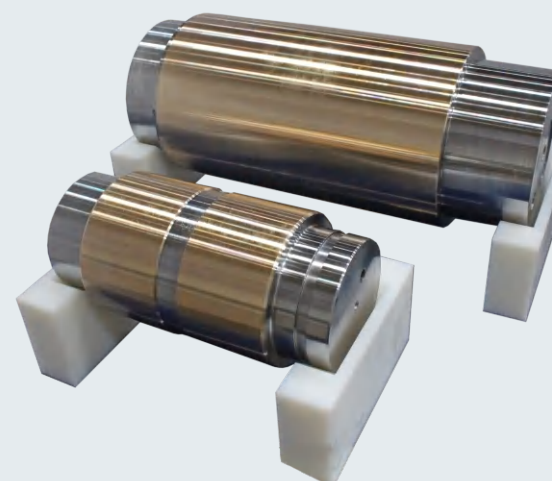
用途: 石油钻井工具

加工难点: 1.内孔滚压: 要求滚压过后表面粗糙度0.8以下(镜面要求), 滚压前后尺寸变化量0.02-0.05; 2.内外螺纹滚压: 要求螺纹牙底变形量0.05且在10倍放大镜下要求具有光量环带; 3.内部深孔施必牢螺纹加工: 在距端面262处加工8个施必牢螺纹孔, 同时要求使用螺纹中径规和牙型规检验, 两规同时满足不大于2牙。

展品特点: 材料硬度值高, 刀具难加工, 同时螺纹滚压和内孔滚压尺寸精度要求高, 并且所加工螺纹需全部做螺纹渗漏检测, 均需满足要求; 同时表面需做喷丸处理并达到客户要求。



激光熔覆销轴



规格: $\varnothing 355 \times 860 / \varnothing 280 \times 520$

用途: 风电齿轮箱滑动轴承

加工难点: 直径公差0.02

滑动轴承工作面形线轮廓度0.015(长度300mm)

展品特点: 在42CrMo4基材表面激光熔覆铜合金, 通过高精度车削, 加工成滑动轴承。能够在滑动轴承表面形成高精度耐磨层, 有着热影响区小、结合强度高的特性, 完美适配第二代滑动轴承的可靠性需求, 与一代滑动轴承相比结构更加紧凑, 有效降低孔隙率, 实现了风电滑动轴承的高精度和低成本制造。

规格: $\varnothing 650 \times \varnothing 490 \times 16$

用途: 风电润滑系统CuSn12Ni2耐磨环或其他可以替代的部位

加工难点: 1、熔覆层厚度对于熔覆工艺影响比较大, 厚度越厚, 熔池边缘效应越严重, 热变形越大。2、为保证平行度要求需要合理分配余量, 过程控制必须精细。

展品特点: 该产品使用CuSn12Ni2+Q355ND复合材料加工制造, 具有一定的耐磨功效。其结构与材质属于易变形类, 加工精度高, 属于较难加工的产品。



激光熔覆圆环

生产线展示

Production Line Display



轴管销生产线
Shaft, pipe & pin production line



恒温精磨间
Constant temperature precision grinding room



钻具生产线
Drilling Tool Production Line



零部件立体库
Finished goods warehouse

设备展示

Equipment Display



激光切割机
Laser Cutting Machine



热处理设备
Heat Treatment Equipment



深孔钻镗床
Deep Hole Drilling And Boring Machine



卧式数控车床
Horizontal CNC Lathe



数控双柱立式车床
CNC Double Column Vertical Lathe



龙门加工中心
Gantry Machining Center



龙门加工中心
Gantry Machining Center



卧式加工中心
Horizontal Machining Center



数控端面外圆磨床
CNC Cylindrical Grinding Machine



数控外圆磨床
CNC Cylindrical Grinding Machine



超声波清洗机
Ultrasonic Cleaning Machine



焊接机器人设备
Welding Robots



中频感应淬火机床
Medium Frequency Induction Hardening Machine



真空钎焊炉
Vacuum Brazing Furnace

设备展示

Equipment Display



ZEISS 三坐标
ZEISS Three-dimensional



Adcole轴类坐标测量机 1200型
Adcole coordinate measuring machine 1200 type for shafts



大型直读光谱仪
Large scale direct reading spectrometer



冲击试验机
Impact testing machine



金相显微检验系统
Metallographic microscopic examination system



三相全波交直流荧光磁粉探伤机
Three phase full wave AC/DC fluorescent magnetic particle testing machine

体系证书

System Certificate





部分海外合作客户
Some overseas cooperative clients



HALLIBURTON

Vestas

FLENDER

