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中船重工电机科技股份有限公司
 CSIC Electrical Machinery Science & Technology Co., Ltd.

打造世界领先国内一流的电机制造企业



WWW.CSIEM.COM



企业简介

Company profile



中船重工电机科技股份有限公司由中国船舶重工集团所属的山西汾西重工有限责任公司发起，联合无锡市产业发展集团有限公司、中船重工科技投资发展有限公司、中船重工第704研究所、711研究所、712研究所优势资源组建的国有股份制企业，是中船重工旗下的骨干军工企业和专业化电机制造基地。公司以“中船电气”为品牌，以“卓越品质、全球共享”为经营理念，持续创新、快速发展。拥有5个专业研究所，在太原、无锡设有2个制造中心，具有完整的风力发电机、发电机、电动机研发制造能力及系统集成实力，具有自主知识产权的计算机仿真设计技术达到国际先进水平。5MW、10MW试验站国内技术一流、综合试验能力最强。公司具有健全的市场网络和服务体系，在东南亚设有维修服务中心。

CSIC Electrical Machinery Science & Technology Co., Ltd. is a state-owned joint-equity enterprise organized by Shanxi Fenxi Heavy Industry Co., Ltd., an affiliate of China Shipbuilding Industry Corporation (CSIC), by taking advantage of resources provided by Wuxi industry development Co., Ltd., CSIC Science & Technology Investment & Development Co., Ltd., and 704 , 711and 712 Research Centers of CSIC in all sectors fund the establishment of a new joint stock enterprise. With “CSIEM” as its brand name, the company keeps the service idea of “High quality and global sharing” to persist in innovation and maintain rapid development. There are five specialized research institutions. The company has two manufacture base in Taiyuan and Wuxi. The company have advanced development and manufacturing about wind turbine generators, synchronous alternators and motors. With our own intellectual property, the computer simulation design technology had reached international advanced level. The 5MW,10MW generators test station has advantaged technology in China and the highest test capabilities. The company has sound marketing network and service system , set up southeast Asia servicing center in Singapore.



技术中心
research and development center

人力资源 Human resources

公司现有员工1000余人，其中专业研发技术人员130余人，以博士团队领衔，形成梯队人才配置，专业技术人员290人，高级技师及技师30余人。

There are over 1000 employees, in those 130 are professionals , 290 are skilled worker, 30 are senior technicians and technicians.

技术中心 Technology center

公司技术中心下设5个专业研究所，负责产品的开发,拥有三级研发体系，具备完善技术创新体系。

公司与德国LDW公司、芬兰Switch 公司、Siemens公司、中船重工701、702、703、704、705、711、712、719研究所、沈阳自动化研究所、哈尔滨工程大学、西北工业大学、清华大学、天津大学、江苏科技大学、太原理工大学、沈阳工业大学、中国船舶设计研究中心、中国船舶工程研究院等科研院所和高校建立了长期稳定的合作，并取得预期效果。

On the base of institutes of professional products, company found technology center, which in charge of developing & design products, have sound system of technology innovation, the company keep cooperation with many institutes and universities domestic and oversea.

质量管理体系 Quality management system

公司坚持“诚信服务、科技创新、精细管理、卓越绩效”的质量方针，加强质量管理体系建设，质量管理水平和产品实物质量稳步提高。通过了ISO9001质量管理体系认证。船用发电机产品通过了全球各船级社的认证。风力发电机产品均通过了欧盟CE认证。

CSIEM keeps the quality policy of “sincerely services, technology innovation, refined management, excellent performance” , passed ISO9001 quality management system certification, marine products can passed certification of all classification societies in the world. The wind generator products have been certificated by CE .

双体系认证 Dual system authentication

公司十分重视环境管理和安全管理工作，注重对员工的人文关怀，通过“环境管理体系认证”和“职业健康安全管理体系认证”，实现了人与环境、企业与经济社会的协调发展。

Company attaches great importance to environmental management and safety management, focus on the humanistic care of employees. Company has passed Environmental Management System Certification and Occupational health and safety management system certification. It makes coordinated development on human and environment, company and economic society.



无锡工厂
Wuxi workshop



主要制造及检测设备

Equipment for manufacture and test



VPI设备 VPI Equipment ▲



匝间短路测试

short-circuit test for turn-turn



线圈涨型机

Expanding machine

N20型数控高速冲槽机 N20 punching machine ▼



comprehensive test station 综合试验站 ▼



服务网络

service network

公司始终坚持“顾客至上”的服务理念，在国内设立了10个客户服务机构，在东南亚设有服务中心，数百名专业的维修工程师活跃于海内外，确保您得到及时可靠的技术服务与支援。

中船电气为您提供：7×24×365 全天候服务400-700-6884 全国服务热线。

Company consist service idea “customer uppermost” ,set up Southeast Asia Branch Company in Singapore. The company has large marketing team, hundreds of sales engineers and maintenance engineers all over the world, to ensure timely and reliable technical service and support for you.



企业产品 Enterprise products

（包含但不限于以下产品）

产品类别	产品系列	规格/型号	
风力发电机	双馈系列	FDYS 2.0-4KS	普通型 高原型
		FDYS 2.0-4KK	
		FDYS 1.5-4KK	
		FDYS 2.5-6KS	
		FDYS 3.0-6KS	
	高速永磁系列	FDYF 2.0-8KS	
		FDYF 3.0-8KK	
		FDYF 5.0-6KS	Switch 技术
	直驱系列	FDTY 10-38	
		FDTY 20-36	
		FDTY 60-42	
同步发电机	1FC2 系列	15kVA-2700kVA	船用、陆用
	1FC6 系列	25kVA-2300kVA	船用、陆用
	TFC6 系列	500kVA-6000kVA	船用、陆用、变频
	TFC4 系列	500kVA-12000kVA	高压 3300V-13.8kV
	1FC5 系列	200kVA-2000kVA	船用、陆用
电动机	YAFS系列增安变频电动机	600kW-1200kW	
	Y/YKK/YKS系列高压异步电动机	200kW-3000kW	6kV、10kV
	YB3系列隔爆异步电动机	5.5kW-2240kW	6kV、10kV、380V、660V、1140V
	YBUD系列掘进用隔爆电动机	100kW-320kW	660/1140V
	YVFJ系列船用变频电动机	5.5kW-3500	380V、690V
	TYT系列船用永磁推进电动机	50kW-5000kW	690V、6600V
	YF-H系列船用异步发电机	200kW-3000kW	690V、6600V
	Y3系列低压大功率电动机	200kW-2000kW	380V、690V
发电机组	EM系列发电机组	50kW-2000kW	陆用柴油发电机组
	CCFJ系列发电机组	50kW-1280kW	船用柴油发电机组
系统集成	船用轴带系统		PTO/PTI
	船用推进系统		
	电动汽车驱动系统	10-100kW	

企业产品

Enterprise products

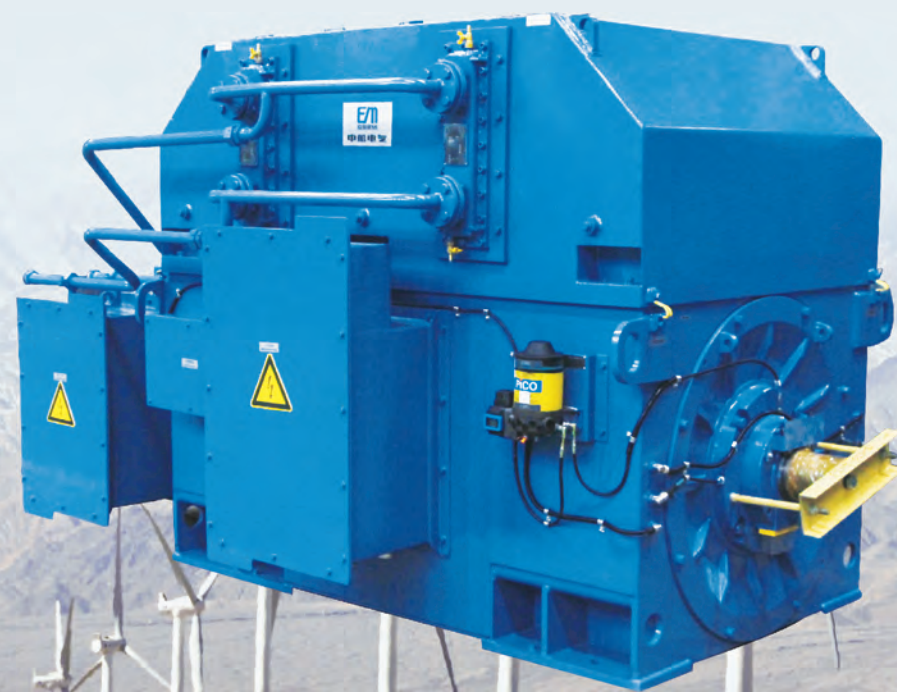
风力发电机系列产品 Wind turbine generators

公司通过与德国LDW公司的技术合作，与芬兰Switch公司联合开发，经过消化吸收，自主研发、制造，形成了850kW、1.5MW、2MW、2.5MW、3MW、5MW等多规格风电产品，包括双馈、同步、高速永磁、直驱等多种机型。产品通过了欧盟成员国CE认证。

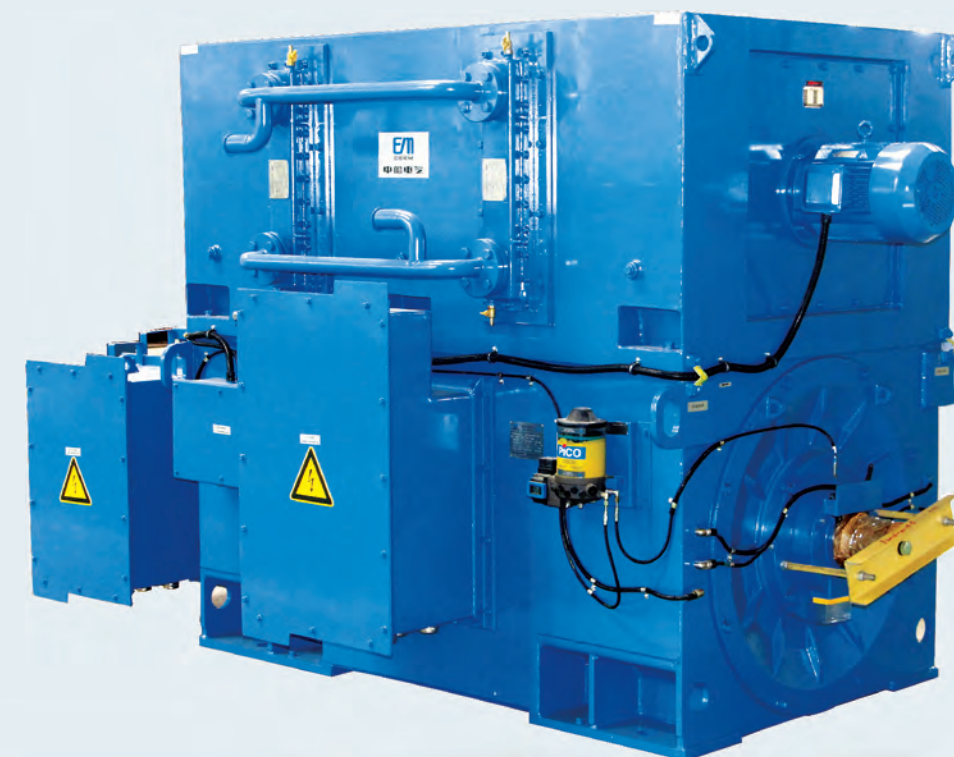
CSIEM has introduced wind generator technology from Germany LDW Company. Cooperation with Finland Switch Company. With independent research and development. Company has successfully developed 850kW、1.5MW、2MW、2.5MW、3MW、5MW series wind generators. The products have been certified by CE .

具有体积小、重量轻、可靠性优、效率高、风能利用率高、产品性能优越等优势，提供水套冷却、空空冷却、空水冷却等多种冷却方式，适用于陆上风沙、高温、低温及海上湿热、盐雾、霉菌等恶劣环境。

The products are characterized for their superior performance and reliability. There are a wide range of cooling options such as jacket cooling, air-air cooling and air-water cooling. Products are applicable in severe conditions like windstorms, high humidity, salt mist, mold and extreme high/low temperatures.



2MW双馈风力发电机
2MW double fed asynchronous wind turbine generator



2MW双馈风力发电机（高原型）
2MW double fed asynchronous wind turbine generator (plateau type)



企业产品

Enterprise products

发电机系列产品 Synchronous alternators

公司生产的1FC2/J2、1FC3/J3、1FC4/J4、1FC5/J5、1FC6/J6系列发电机以及自主创新的TFC4/J4、TFC6/J6系列发电机，源自德国西门子先进的电机制造技术，借鉴吸收国内外电机产品的优点，经现代化仿真技术不断优化改进，具有无刷励磁、F/H级绝缘、全阻尼、恒压的特点，符合IEC要求、DIN标准和VDE规范，通过全球所有船级社的型式认可。

产品广泛用于船舶、石油、海洋工程、核电、铁路、邮电通讯等国家重点工程领域，出口到芬兰、俄罗斯、韩国、日本、新加坡、马来西亚、巴基斯坦、印尼、中国台湾等10多个国家和地区，其中船用发电机市场占有率多年雄踞国内同行业首位。

The 1FC2/1FJ2, 1FC3/1FJ3, 1FC4/1FJ4, 1FC5/1FJ5, 1FC6/1FJ6 series generators are manufactured with advanced Siemens technology. TFC4/J4、TFC6/J6 series generators by means of absorbing merits from domestic and oversea, and gathering modern simulation design method. It has characteristics of brushless excitation, F /H class insulation, full damping and constant voltage. The generators are in conformity with IEC, DIN, and VDE standards, and have passed type approval of all classification society in the world.

The products are widely used in major fields like shipbuilding, oil field, drilling platform, nuclear power, railway, post and telecommunications and etc. Many have been exported to more than 10 countries and regions such as Finland, Russia, Korea, Japan, Singapore, Malaysia, Pakistan, Indonesia and China Taiwan, etc. The company has held the largest market share of marine generators in China for many years.



2MW双馈风力发电机（空空冷 高性能）
2MW double fed asynchronous wind turbine generator (air-air cool /high performance)

公司与芬兰Switch公司技术合作结晶
Advanced technology from cooperation with Finland Switch Company

技术特点：

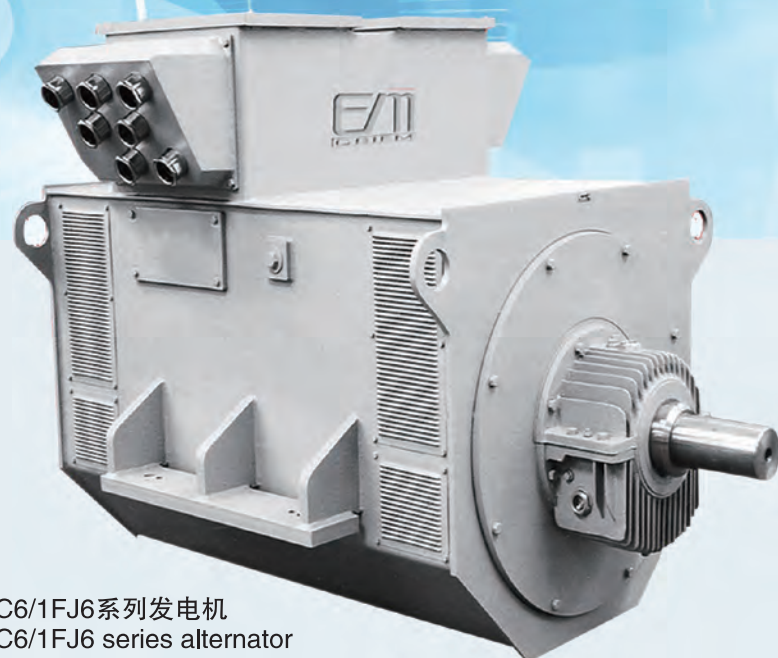
- 1 内嵌式永磁体转子结构设计
- 2 litz线定子绕组结构设计
- 3 分段式机座结构设计
- 4 可拆卸轴承组结构设计

Technical characteristics:

- 1 PM rotor structure of interior permanent magnet
- 2 Litz stator winding structure
- 3 Segmented frame structure
- 4 Separable bearing pack



5MW高速永磁风力发电机
5MW high speed permanent magnetic turbine generator



1FC6/1FJ6系列发电机
1FC6/1FJ6 series alternator

德国西门子公司的专业技术与
公司精湛制造技术的完美结合

Ideal combination of Siemens expertise with
CSIEM exquisite manufacturing technology

◆高可靠性与耐久性

优选励磁系统，结构简化，可靠性高，适应性
性强

坚固的机座，耐振动，抗冲击

装有阻尼绕组，具有良好的动态性能

定、转子经真空压力浸漆，极好的绝缘强度

◆使用简便

机外安装防护附件，更换方便

调节AVR板简单

维护方便

◆全钢板焊接箱式机座，结构紧凑

◆产品系列化、模块化、配套件通用
化，维护费用低，符合“SOLAS”规范

◆High reliability and durability

Optimized phase compound excitation system for
simplified construction and improved reliability Solid frame
for better vibration and impact resistance

Damping winding for better dynamic performance

Vacuum impregnation of stator and rotor for excellent
insulation

◆Easy to operate

Outside guarding accessory which can be replaced
easily

AVR easy to regulate

Easy maintenance

◆Full-steel box-type frame and compact structure

◆Product serialization, component interchangeability,
low maintenance cost and conformance with SOLAS standards

◆高效率

机电能量转化效率高

冷却系统散热效果好，温升低

◆高品质

输出电压恒定，动态特性好

稳态电压调整率可达 $\pm 0.5\%$

电压恢复时间快

正弦波畸变 $< 5\%$

防护等级可达IP54

◆High efficiency

High transfer efficiency of mechanical energy and electric power

Good heat dissipation and low temperature rise of cooling system

◆High quality

Constant output voltage and good dynamic performance

Steady state voltage regulation range better than $\pm 0.5\%$

Rapid voltage recovery

Sine wave distortion $< 5\%$

Protection class up to Ip54



1FC2系列发电机
1FC2 series alternator



TFC6/TFJ6系列发电机
TFC6/TFJ6 series alternator



企业产品

Enterprise products



电动机系列产品 Motors

公司电动机产品有：YAFS系列油田专用增安型变频异步电动机，YB3、YBK3、YBU、YBUD等矿用隔爆型异步电动机，Y-H、YE3-H、YVFJ等系列船用电动机，Y、YR、YKS、YRKS、YKK、YRKK等系列高压异步电动机，Y、Y3、YD等系列普通低压三相异步电动机，TYBVF1隔爆型变频一体化永磁同步电动机，并通过新时代认证中心的质量体系认证，船用产品通过CCS、ABS、RS等认证。

The products include many kind of models, YAFS series increase safety Frequency-converting asynchronous motors for oil field drilling, YB3、YBK3、YBU、YBUD series explosion-proof asynchronous motor, Y-H、YE3-H、YVFJ marine asynchronous motor, Y, YR, YKS, YRKS, YKK, YRKK high voltage asynchronous motor, Y, Y3, YD low-voltage three-phase asynchronous motor, and TYBVF1 explosion — proof and variable frequency integrated permanent magnet synchronous motor, etc.

Series motors have reached the international advanced level, and passed the China Xinshidai Quality System Certification Body . Marine products had passed certification of CCS, ABS, RS.

YAFS系列增安型变频异步电动机

主要用于石油钻机的转盘、绞车、泥浆泵等石油专用机械。

The product is applicable to oil special equipment like rotary table, winch and slurry pump of oil drilling machine.

优点：结构紧凑、体积小、重量轻、刚度好，维护简单。

Advantages: compact structure, small size, light weight, strong stiffness, and easy maintenance.

YAFS增安型变频异步电动机
YAFS increase safety frequency-converting asynchronous motors for oil field drilling

TFC4系列高压发电机
TFC4 series high voltage alternator

塔架式抽油机用外转子电动机

该电动机通过变频调速系统直接拖动负载完成上下往复运动，节省原有的减速机构，节约能源。它具有效率高、功率因数高、转动惯量小、动态响应速度快、低速平稳性好的优点。

The motor can drag the units directly with frequency control system to complete reciprocating motion of up and down, and omit speed reducing mechanism to conserve energy. It has advantages of high efficiency, high power factor, small moment of inertia, quick dynamic response and good stability of low speed.



塔架式抽油机用外转子电动机
External-rotor motor for
tower type pumping unit



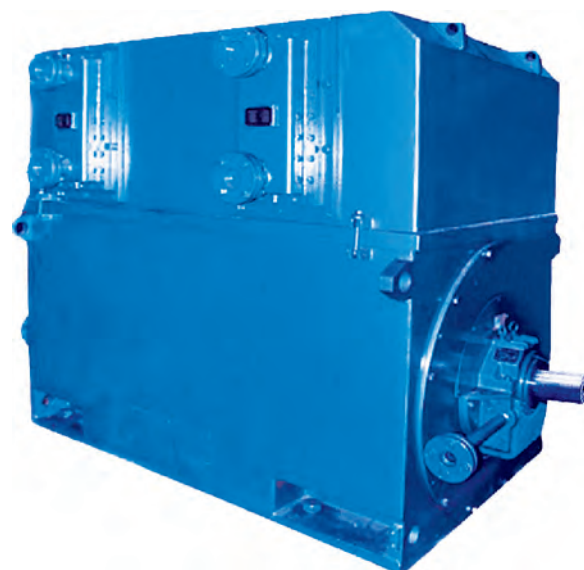
YB3系列高压隔爆型三相异步电动机

YB3 series explosion-proof asynchronous motor

YB3系列高压隔爆型三相异步电动机

适用于具有爆炸性气体环境的1区、2区危险场所。作为原动机，可广泛应用在矿山、机械工业、石油化工工业、煤化工、发电厂、冶金等工矿企业中，用于驱动各种通用机械，如压缩机、水泵、破碎机、卷扬机、离心机、切削机床、运输机等各种机械，是最理想的驱动设备。

YB3 series of explosion-proof three-phase asynchronous motor is used in the dangerous sites with explosive air, 1 division, 2 division. As a primer, it can be ideal driving equipment to drive many kinds of machines, such as compressor, water pump, crusher, roller, centrifuge, cutting machine and transport machine. It is widely used in mining, machinery industry, petrochemical industry, power generation and metallurgy.



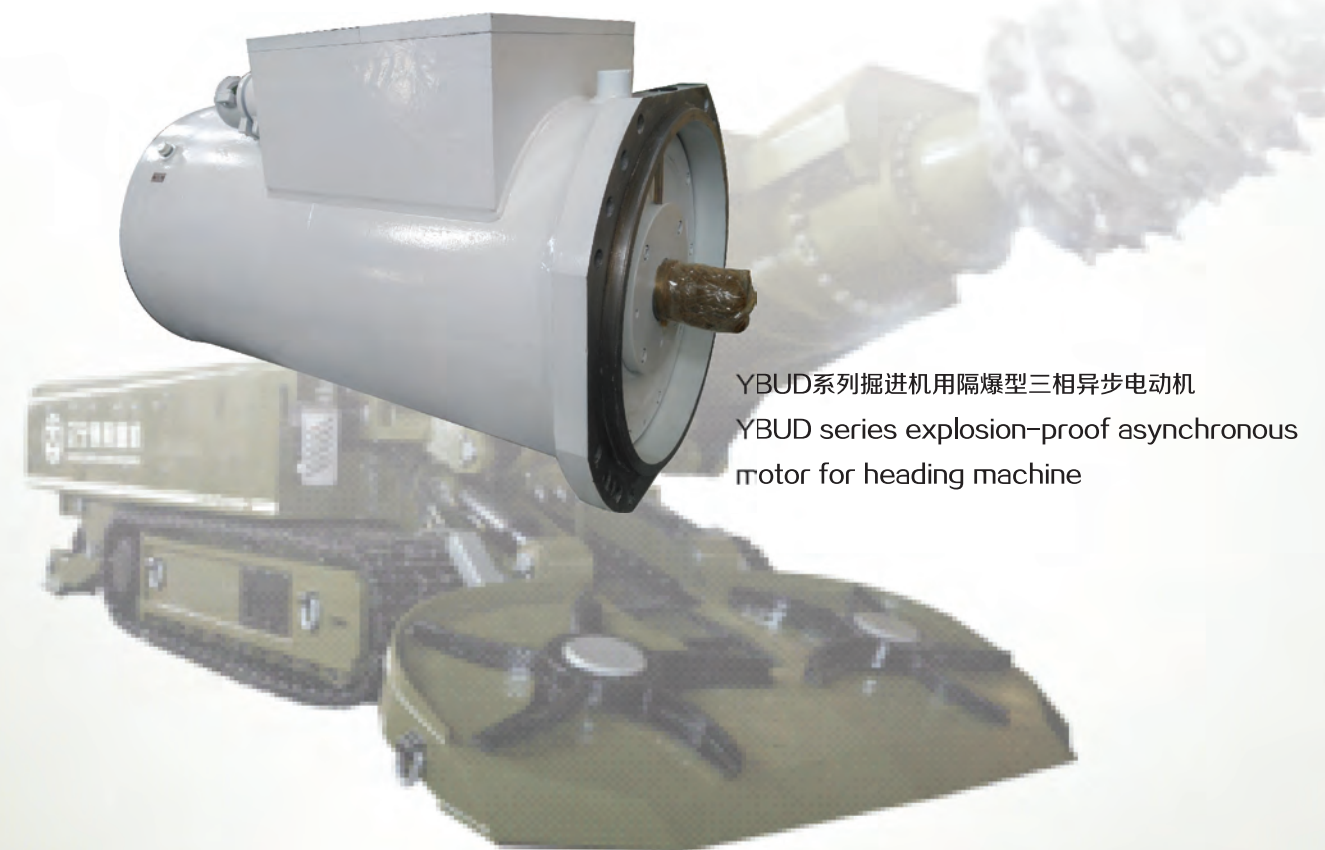
Y/YKK/YKS系列高压三相异步电动机

Y/YKK/YKS series high voltage
three-phase asynchronous motor

Y/YKK/YKS系列高压三相异步电动机

用于驱动各种通用机械如压缩机、水泵、通风机、运输机械等，在矿山、机械、石化、电厂等各种工矿企业中作原动机使用。

Y/YKK/YKS series high voltage three-phase asynchronous motor is used for driving many kinds of general machinery equipment such as compressors, pump ventilations, conveying equipment and used as primers in mining, machinery, petrochemical industry, power station.



YBUD系列掘进机用隔爆型三相异步电动机

YBUD series explosion-proof asynchronous
motor for heading machine

YVFJ系列船用驱动变频三相异步电动机

该系列电动机主要是用于船用侧推

已经在杭齿、461等生产的侧推系统上应用。

The series of motor is used in marine side thruster propulsion system.

The products have been applied in the side propulsion systems produced by Hangzhou gear box company and Wuhan marine machinery plant.



YVFJ系列船用驱动变频三相异步电动机
YVFJ frequency-converting three-phase asynchronous motors for marine driving

YF-H系列船用异步发电机

该系列异步发电机在特定船用推进工况下经济性优于同步机。

优点：可以调速，便于控制、维护简单等。

The series of asynchronous generator is superior to synchronous generator on the economical efficiency under some specific conditions.

Advantages: speed adjustable, good control and easy maintenance.



YF-H系列船用异步发电机
YF-H series marine asynchronous generator

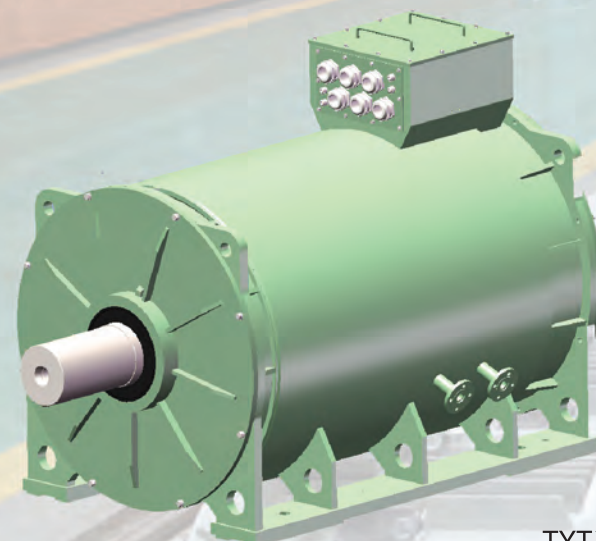
TYT系列船用永磁推进电动机

该系列永磁电动机主要是用于船用主推装置。

应用于中国首条直流组网电力推进船舶

The series of permanent magnet motor is used in marine propeller propulsion device.

The products have been applied in the first ship with DC electric propulsion in China.



TYT系列船用永磁推进电动机
TYT series marine permanent magnet propulsion motor

Y3系列低压大功率三相异步电动机

该系列电动机主要是用于船用压缩机，通风机械，分离器，液压机械等

The series of motor is used in equipment of marine compressor, ventilation machinery, separator, hydraulic machinery, and etc.



Y3系列低压大功率三相异步电动机
Y3 series low-voltage big-power three-phase asynchronous motor

企业产品

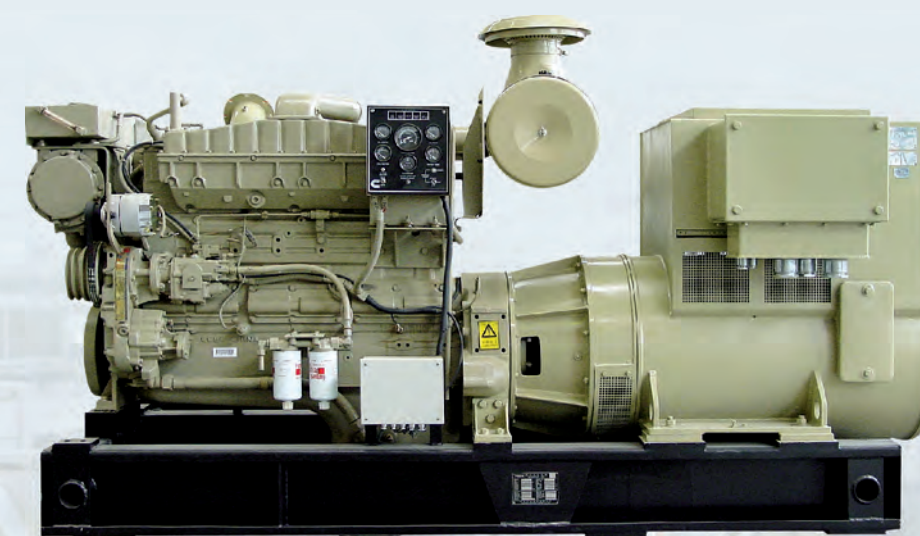
Enterprise products

柴油发电机组及系统集成 Diesel gen sets & system integration

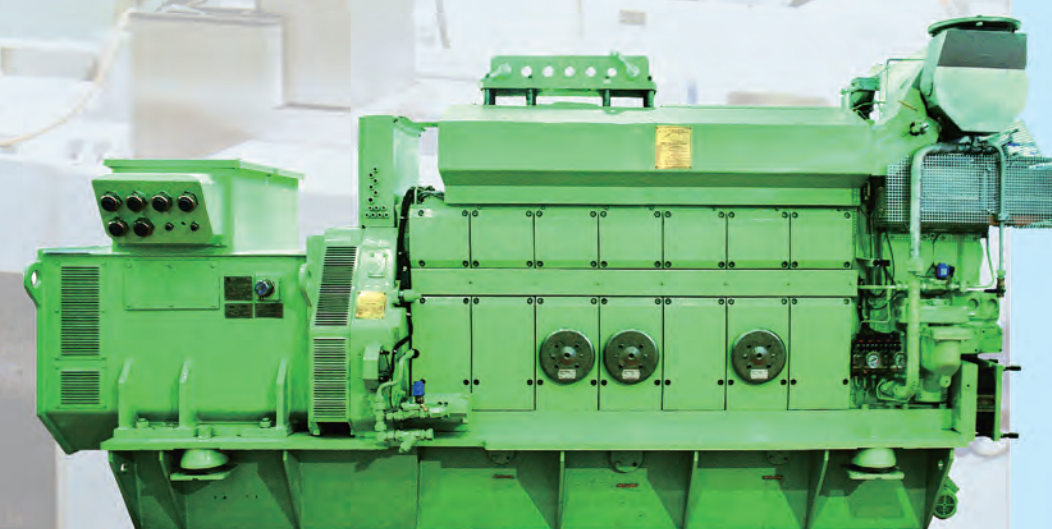
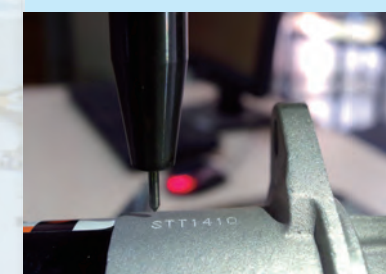
公司生产的柴油发电机组，选用西门子系列发电机，配套国产系列及曼海姆、康明斯、道依茨、卡特彼勒、斯太尔、沃尔沃等柴油机，配备具有欠压、过流、短路等功能一体式或独立控制屏，经国家内燃机发电机组质量监督检验中心鉴定合格，具有水温高、油压低、超速报警、自动停机等功能，操作简单、维护方便、调压精度高、动态性能好、使用寿命长，深得用户一致好评。

依托公司雄厚的电机和变频器产品研发实力，进行以电机及其控制为核心的电气传动系统的方案设计和系统产品的开发，根据客户个性化需求，提供最优的系统解决方案和性价比最高的系统产品，帮助客户提高效率，缩短项目周期。

The diesel generator sets are made by combining Siemens series 1FC2/1FJ2, 1FC3/1FJ3, 1FC4/1FJ4, 1FC5/1FJ5 and 1FC6/1FJ6/TFC6/TFJ6 generators with domestic 135, 170, 190 series or MWM, Cummins, Deutz, Caterpillar, Steyr and Volvo diesel engines and they are equipped with integrated and independent control panels for under-voltage, over-current and short-circuit protections. The generator sets have passed certificate from National Internal Combustion Engines Quality Supervision and Inspection Center and have the function of high water temperature, low oil pressure, overspeed warning and automatic closedown. Characterized by high precision pressure adjustment, good dynamic performance and long service life, they are easy to operate and maintain and well-received among customers. System integration rely on capacity of company manufacturing electrical machine and converter , providing excellent solution according to individuation for customers. aiding for efficiency prompting, production period shortening.



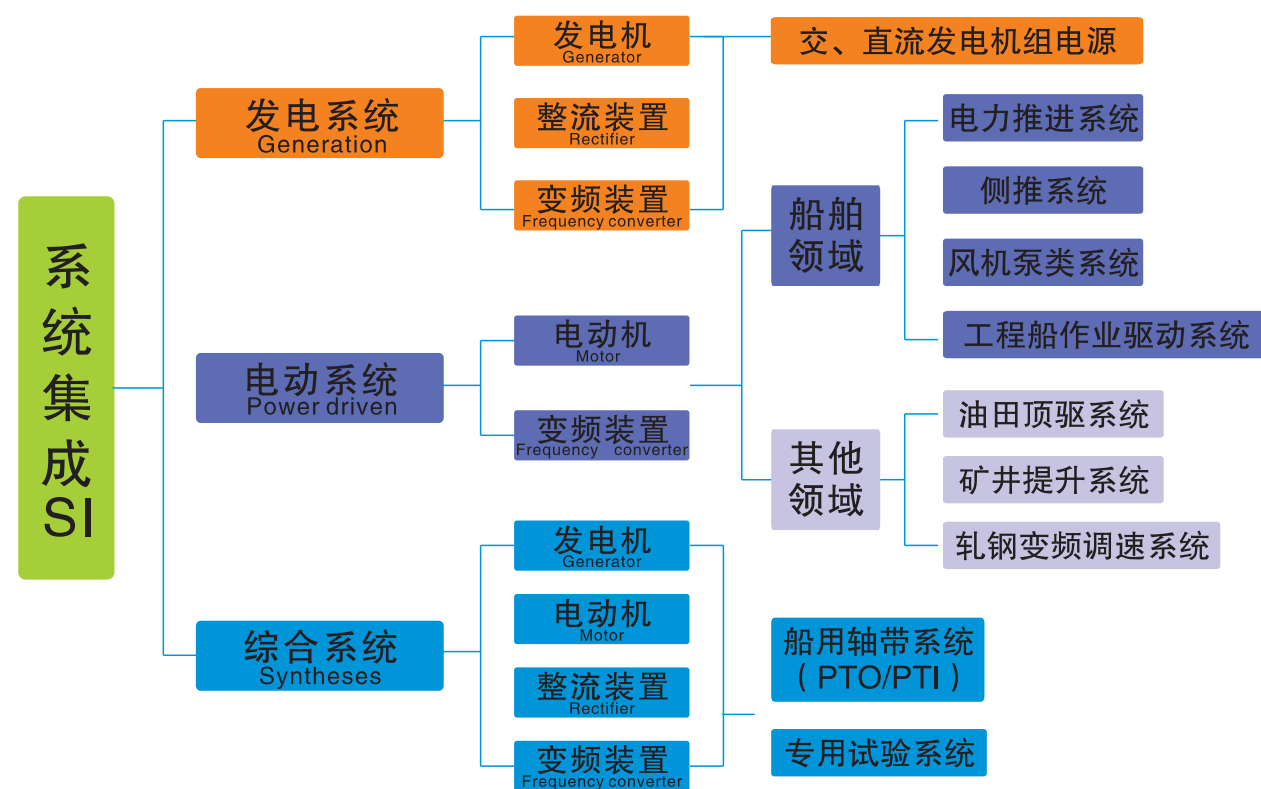
柴油发电机组
diesel gen sets



柴油发电机组
diesel gen sets



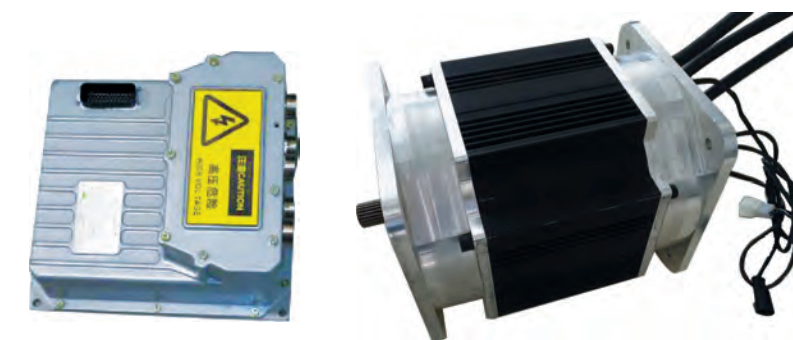
汽车电站
automobile power station



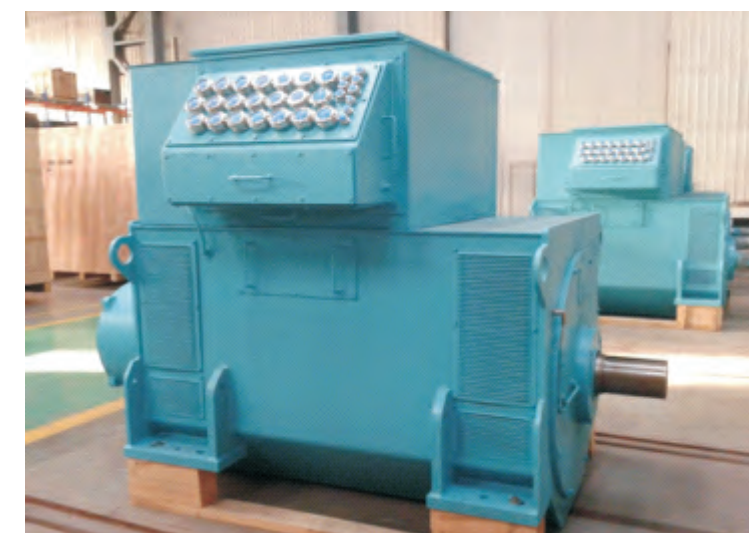
电动汽车用驱动电机系统

包括高效驱动电机及其控制器，功率范围10kW-100kW，用于各种新能源电动汽车的驱动，包括电动物流车、乘用车以及电动大巴车。

Drive motor system for electric vehicles includes high efficiency drive motor and controller, and power volume 10kW-100kW. The system is used for new energy electric vehicles, such as logistics vehicles, passenger vehicles, and electric buses.



电动汽车用驱动电机系统
Drive motor system for electric vehicles



PTO/PTI轴带发电机系统 Shaft generator system