



在特种电机领域持续创新  
为全球客户提供一流解决方案

Continuously Innovating In The Field Of Special  
Motors To Provide First-class Solutions For Global Customers



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大连日牵电机有限公司  
DALIAN RIQIAN MOTOR CO., LTD

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担大任 行大道 成大器  
RESPONSIBILITY VIRTUE FORTITUDE  
DALIAN RIQIAN MOTOR CO., LTD

XCMG

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## 公司简介

## COMPANY PROFILE

## SINCE 1989



大连日牵电机有限公司始建于**1989年**，以电机生产、电气控制、电机维修为主导产业，产品涵盖矿山机械、轨道交通、冶金起重及新能源领域，产品出口欧洲、中亚等多个国家和地区，**是中国电机及驱动系统行业的佼佼者**。2018年徐工机械投资控股，成为徐工机械电机驱动系统生产基地，2023年成为徐工机械全资子公司，成为大型国有企业，**致力于为全球客户在特种电机领域持续创新，提供行业一流解决方案。**

DALIAN RIQIAN MOTOR CO., LTD. was founded in 1989, with motor production, electrical control, and motor maintenance as its leading industries. Its products cover mining machinery, rail transportation, metallurgical lifting, and new energy fields. Its products are exported to many countries and regions in Europe, Central Asia, and other regions, making it a leader in China's motor and drive system industry. In 2018, XCMG Machinery invested in controlling shares and became a production base for XCMG Machinery's motor drive system. In 2023, it became a wholly-owned subsidiary of XCMG Machinery and a large state-owned enterprise, committed to continuous innovation in the field of special motors for global customers and providing industry-leading solutions.

公司30年来专注设备动力系统研发，贯彻“**技术领先，用不毁，做成工艺品**”产品理念，所有产品均依据国际标准或国家技术要求生产，并成功通过**ISO9001、ISO14001和ISO45001**三标体系认证以及**ISO3834**国际焊接认证体系，**EN15085**轨道车辆和车辆部件焊接认证体系，**CCC**中国国家强制性产品认证，两化融合管理体系等。

For 30 years, the company has focused on the research and development of equipment power systems, implementing the product concept of "leading technology, indestructible use, and making handicrafts". All products are produced according to international standards or national technical requirements, and have successfully passed the ISO9001, ISO 14001, and ISO 45001 three standard system certifications, as well as the ISO3834 international welding certification system, EN15085 rail vehicle and vehicle component welding certification system, CCC China National Compulsory Product Certification, and the integration of industrialization and informatization management system.

面向未来，大连日牵电机将以更加开放的心态，深化与全球合作伙伴的交流合作，持续提升产品性能，拓展服务领域，立志将务实创新、精工共赢融为一体，为各个领域的客户提供最优质的产品和服务。始终秉承“**担大任、行大道、成大器**”的核心价值观，**为推动中国乃至全球装备制造业的发展贡献日牵力量！**

Looking towards the future, DALIAN RIQIAN MOTOR CO., LTD. will deepen communication and cooperation with global partners with a more open attitude, continuously improve product performance, expand service areas, and strive to integrate pragmatic innovation and precision win-win, providing customers in various fields with the highest quality products and services. Always adhering to the core values of "taking on great responsibilities, following the right path, and achieving great success", we strive to contribute to the development of China and even the global equipment manufacturing industry!

**TO CONTRIBUTE TO THE DEVELOPMENT OF CHINA'S AND EVEN THE GLOBAL EQUIPMENT MANUFACTURING INDUSTRY, WE ARE CONSTANTLY PUSHING FORWARD!**



# 发展历程 DEVELOPMENT HISTORY

## 1989年

1989年,大连日牵电机有限公司成立,研发生产从4kW~520kW的牵引电机产品,广泛应用于工矿牵引车、民用轨道机车及铁路机车。

In 1989, DALIAN RIQIAN MOTOR CO., LTD. was established and began to develop and produce traction motor products ranging from 4kW to 520kW, which are widely used in industrial and mining locomotives, civil rail locomotives, and railway locomotives.

## 2003年

2003年,公司先后研发出4m³~60m³ 矿用挖掘机电机及电控系列,为大型露天矿用设备批量配套。

In 2003, the company developed a series of electric motors and controls for mining excavators ranging from 4m³ to 60m³, providing bulk support for large-scale open-pit mining equipment.

## 2009年

2009年,公司开始研发矿用电动自卸车电机,生产出108吨~400吨电动自卸车电机,并成功国产化220吨电动自卸车电机总成,填补了国内的空白。

In 2009, the company began researching and developing electric dump truck motors for mining, producing electric dump truck motors ranging from 108 to 400 tons, and successfully localizing 220 ton electric dump truck motor assemblies, filling the gap in China.

## 2010年

2010年,公司开始进入冶金起重领域,研发团队先后开发YZR系列、YZP2系列和YGP系列冶金及起重电机。国内起重行业和大港机主机厂提供了各种起重机械备用电机。

In 2010, the company began to enter the field of metallurgical lifting, and the R&D team successively developed YZR series, YZP2 series, and YGP series metallurgical and lifting motors. The domestic crane industry and large port machinery manufacturers provide various motors for lifting machinery equipment.

## 2017年

2017年公司开始进入井下矿领域,成功研发生产出掘进机电机、皮带机电机和竖井提升机电机等产品,此类电机均可采用永磁结构电机。

In 2017, the company began to enter the underground mining field and successfully developed and produced products such as tunneling machine motors, belt conveyor motors, and vertical shaft hoist motors, all of which can use permanent magnet structure motors.

## 2019年

2019年公司开始研发装载机驱动轮电机,采用独立四轮电气驱动,由电机和减速部分组成为一体,并且为徐工铲运成功配套中国首台前装机电机。

In 2019, the company began researching and developing the drive wheel motor for loaders, which adopts independent four-wheel electrical drive and is composed of a motor and a reduction part. It also successfully matched the first front mounted motor in China for XCMG shovel transportation.

## 2021年

2021年公司开始进入新能源电机领域,产品已经涵盖电动叉车电机、电动装载机电机和高空作业平台电机,可以生产4kW~350kW的新能源电机,并且为徐工塔机、徐工特机等企业成功配套纯电动动力系统。

In 2021, the company began to enter the field of new energy motors, with products covering electric forklift motors, electric loader motors, and high-altitude work platform motors. It can produce new energy motors ranging from 4kW to 350kW and successfully provide pure electric power systems for enterprises such as XCMG tower cranes and XCMG special machines.

## 2023年

2023年成为徐工机械全资子公司,从民营企业转型成为大型国有企业,强化了公司技术、市场以及品牌能力,公司发展又上新台阶。

In 2023, it will become a wholly-owned subsidiary of XCMG Machinery, transforming from a private enterprise to a large state-owned enterprise, strengthening the company's technological, market, and brand capabilities, and embarking on a new journey of development.

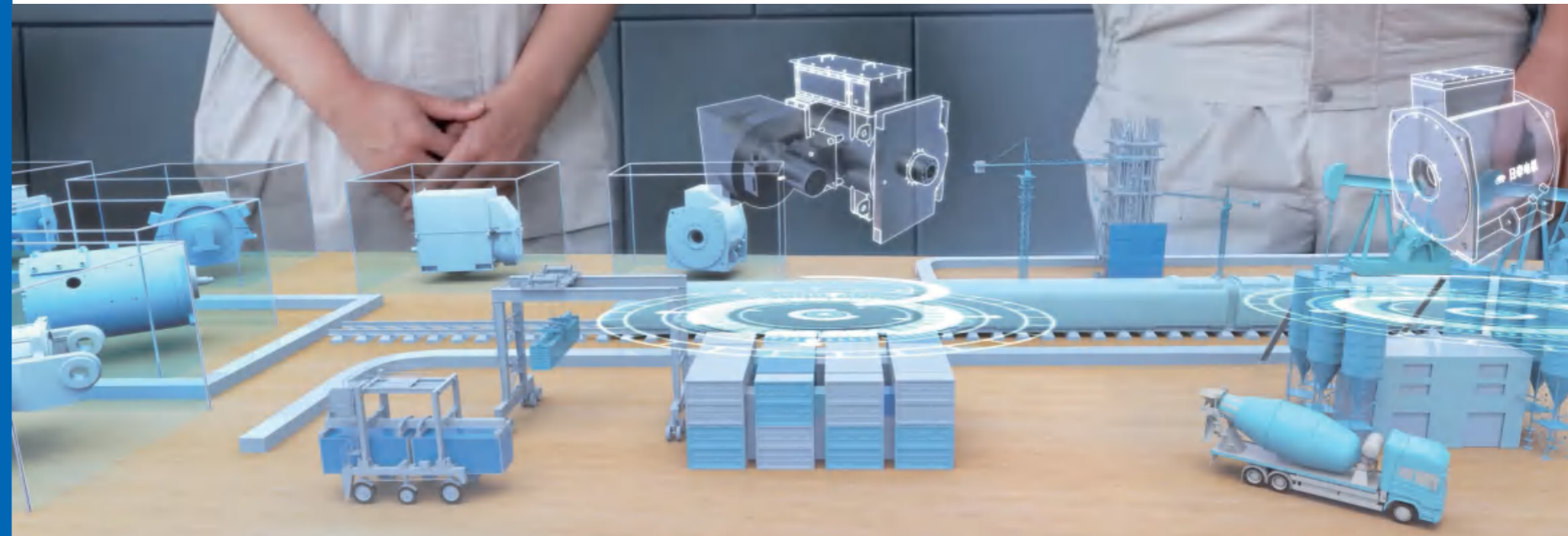


# 研发能力

## R&D CAPABILITY

公司自主研发生产的矿山机械、轨道交通、井工矿和冶金起重等领域电机达到国内先进水平，成熟掌握牵引电机、大型同步电机、永磁直驱电机等电机核心技术。电动轮电机成为行业第一品牌，开关磁阻电机和高速永磁电机获得“揭榜挂帅”项目。

The motors independently developed and produced by the company in the fields of mining machinery, rail transportation, underground mining, and metallurgical lifting have reached the advanced level in China, and have mature mastery of core technologies such as traction motors, large synchronous motors, and permanent magnet direct drive motors. Electric wheel motors have become the top brand in the industry, and switch magnet group motors and high-speed permanent magnet motors have won the "unveiling and leading" project.



**49**项技术专利  
49 Technical Patents

**25**项国标、行标的修制订  
Revision And Formulation Of 25  
National And Industry Standards

**15**篇发表文献  
15 Published Articles



序号 Number	典型产品 Typical Products	产品特点 Product Features	行业所处水平 Industry Level
1	电动轮电机 Electric traction motor	对标GE, 核心技术, 发电机和电动机成套, 质量优良 Benchmarking against GE, core technology, complete sets of generators and motors with excellent quality.	替代进口 Substitute imports
2	电铲电机 Shovel electric motor	电机电控成套, 直流到交流变频 Complete set of motor and electrical control, DC to AC frequency conversion	行业先进 Advanced in the industry
3	冶金起重电机 Metallurgical crane electric motor	全系列, 质量可靠, 配套主机厂稳定 Full range, reliable quality, stable supporting host factory	知名品牌 Famous brand
4	牵引机车电机 Traction locomotive electric motor	全系列, 直流电机技术和生产能力强 Full range, strong DC motor technology and production capacity	
5	永磁电机 Permanent magnet motor	新能源中高端设计、配套 High end design and supporting facilities for new energy	行业先进 Advanced in the industry
6	开关磁阻电机 Switch reluctance motor	核心技术、新技术实用化批量应用 Core technology and practical batch application of new technologies	

# PRODUCTION CAPACITY

## 生产能力

## PRODUCTION CAPACITY

**108** 亩 Mu  
Construction land area  
建设用地面积

**624** 人 People  
Manufacturing personnel  
生产制造人员

**4亿** 元 Element  
Investment agreement  
投资约

**3万** 台/年 Units/Year  
Motor production capacity  
电机生产能力

日牵电机建设用地面积108亩,生产制造人员624人,投资约4亿元。具备冲铆、机加工、电造、装配和电机试验等全工序生产能力。目前具备30000台/年的电机生产能力。

The construction area of DALIAN RIQIAN MOTOR CO.,LTD is 108 acres, with 624 manufacturing personnel and an investment of about 400 million yuan. It has the production capacity of punching, machining, electroforming, assembly and motor testing. Currently, it has a production capacity of 30,000 motors per year.

在先进工艺技术装备方面,日牵电机配置了包括机器人焊接工作站、30吨级动平衡平台、VPI真空压力浸漆设备以及自动连续真空浸漆生产线在内的50余套高端设备。这些装备不仅实现了关键焊缝的全自动化机器人焊接,确保了产品质量的一致性和可靠性,还极大地提高了生产效率,为公司持续加强质量控制、优化智能制造水平奠定了坚实基础。为了进一步提升制造技术,日牵电机已启动了第二轮制造技术升级改造,公司正向着更高水平的智能制造迈进。

In terms of advanced process technology and equipment, DALIAN RIQIAN MOTOR CO.,LTD is equipped with more than 50 sets of high-end equipment including robot welding workstations, 30-ton dynamic balancing platforms, VPI vacuum pressure impregnation equipment, and automatic continuous vacuum impregnation production lines. These equipment not only realized the full automation of robot welding for key welds, ensuring the consistency and reliability of product quality, but also greatly improved production efficiency, laying a solid foundation for the company to continuously strengthen quality control and optimize intelligent manufacturing level. In order to further improve the manufacturing technology, DALIAN RIQIAN MOTOR CO.,LTD has launched the second round of manufacturing technology upgrading and transformation, and the company is moving towards a higher level of intelligent manufacturing.



卧式加工中心  
Horizontal Machining Center



数控车床  
Cnc Lathe



NNSE万能镗床  
NNSE Universal Boring Machine



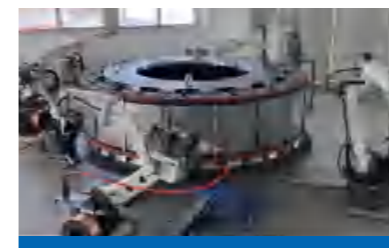
30T动平衡平台  
30t Dynamic Balancing Platform



数控龙门铣镗床  
Cnc Gantry Milling And Boring Machine



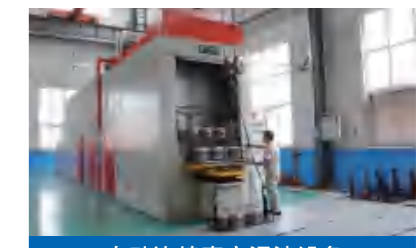
数控绕线机  
Cnc Winding Machine



机器人焊接工作站  
Robot Welding Workstation



数控线圈包带机  
Cnc Coil Wrapping Machine



自动连续真空浸漆设备  
Automatic Continuous Vacuum Coating Equipment



Vpi真空压力浸漆设备  
Vpi Vacuum Pressure Impregnation Equipment



立式加工中心  
Vertical Machining Center



自动摇摆送料冲压设备  
Automatic Swing Feeding And Stamping Equipment

# 试验能力 ABILITY TO TEST

为确保下线整机满足相应的品控要求,所有下线产品均需通过专项试验,使产品质量在交付时得到保障。

To ensure that the offline whole machine meets the corresponding quality control requirements, all offline products must pass special tests to ensure product quality at the time of delivery.



电机综合试验中心  
Motor Comprehensive Testing Center

公司按国家认证认可监督管理委员会(CNAS)试验站标准,由中机国际工程设计研究院设计并建设了2.4MW级综合电机试验研究中心。该试验研究中心以大功率静态变频试验电源为核心,全面覆盖高低压试验范畴;配置宽频高精度测试采集单元,保证高精度试验数据准确可靠;计算机测控系统根据试验工艺专项开发,具备上位机远程控制与测试的智能化、自动化功能;试验系统设置全方位、多层次的安全互锁,保证人机安全,操作可靠

The company has designed and constructed a 2.4MW comprehensive motor testing and research center in accordance with the testing station standards of the China National Accreditation Service for Conformity Assessment (CNAS), designed and built by China Machinery International Engineering Design and Research Institute. The experimental research center focuses on high-power static variable frequency test power supply, covering the entire range of high and low voltage tests; Configure a broadband high-precision test acquisition unit to ensure accurate and reliable high-precision test data; The computer measurement and control system is specially developed based on the experimental process, and has intelligent and automated functions for remote control and testing by the upper computer; The experimental system is equipped with comprehensive and multi-level safety interlocks to ensure human-machine safety and reliable operation.

试验研究中心满足高低压异步、高低压同步、直流、永磁同步等电机的各项型式试验需求,具有建设规模大,测试电机种类广,测试项目全面和试验精度高等特点,其综合型式试验能力处于行业领先水平!

The Experimental Research Center meets the various types of testing requirements for high and low voltage asynchronous, high and low voltage synchronous, DC, permanent magnet synchronous and other motors. It has the characteristics of large construction scale, wide variety of testing motors, comprehensive testing projects and high testing accuracy. Its comprehensive type testing capability is at the leading level in the industry!



试验数据平台  
Experimental Data Platform

## 管理体系认证 Management System Certification

公司严格把关所有产品质量,系统化推进质量管理工作,依据国际标准或国家技术要求生产,并成功通过ISO9001:2015《质量管理体系要求》、ISO14001:2015《环境管理体系要求及使用指南》和ISO45001:2018《职业健康安全管理体系要求及使用指南》三标体系认证以及ISO3834国际焊接认证体系,EN15085轨道车辆和车辆部件焊接认证体系,CCC中国国家强制性产品认证,两化融合管理体系等。

The company strictly controls the quality of all products, systematically promotes quality management work, produces according to international standards or national technical requirements, and has successfully passed the three standard system certifications of ISO9001:2015 "Quality Management System Requirements", ISO14001:2015 "Environmental Management System Requirements and Guidelines for Use", and ISO45001:2018 "Occupational Health and Safety Management System Requirements and Guidelines for Use", as well as the ISO3834 international welding certification system, EN15085 rail vehicle and vehicle component welding certification system, CCC China National Compulsory Product Certification, and integration management system.



质量管理体系  
Quality Management System  
环境管理体系  
Environmental Management System  
职业健康安全体系  
Occupational Health and Safety System



EN 15085焊接认证  
EN 15085 Welding Certification  
EN ISO 3834焊接认证  
EN ISO 3834 Welding Certification

## 检验测量设备 Inspection And Measurement Equipment



关节臂三坐标  
Joint arm coordinate system



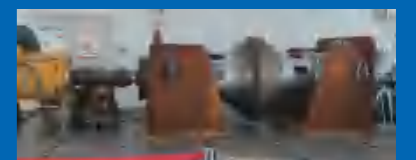
结构件无损检  
Non destructive testing of  
structural components



涂装质量检测  
Painting quality inspection

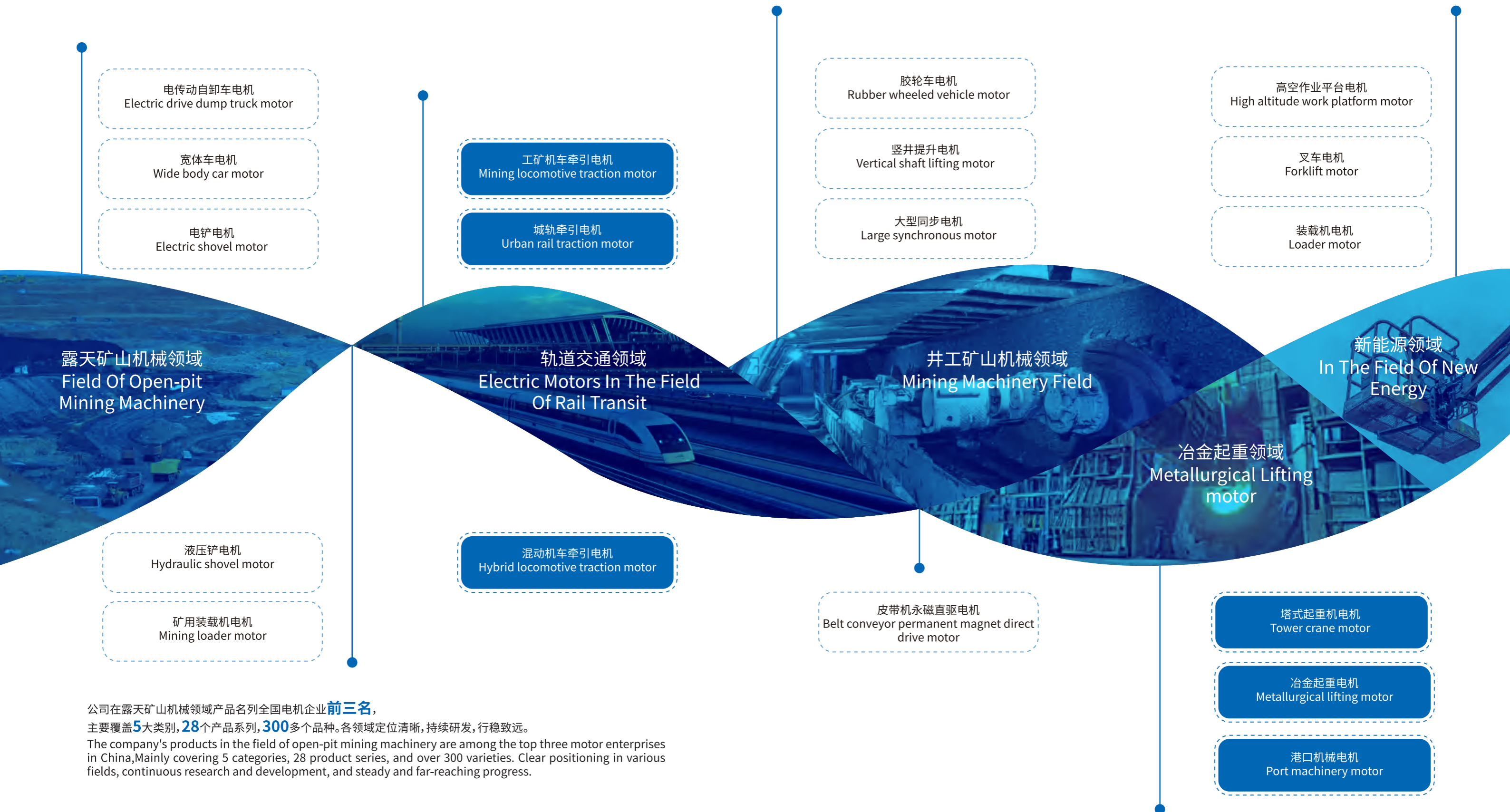


化学成分分析  
Chemical composition analysis



整机试验台  
Whole machine test bench

# 应用领域 COMPANY PRODUCT CLASSIFICATION



公司在露天矿山机械领域产品名列全国电机企业**前三名**，  
 主要覆盖**5**大类别，**28**个产品系列，**300**多个品种。各领域定位清晰，持续研发，行稳致远。  
 The company's products in the field of open-pit mining machinery are among the top three motor enterprises in China, mainly covering 5 categories, 28 product series, and over 300 varieties. Clear positioning in various fields, continuous research and development, and steady and far-reaching progress.



1-1

露天矿山领域  
OPEN PIT FIELD



电传动矿用自卸车系列  
Electric Drive Mining Dump Truck Series

日牵研发的矿用自卸车用电动机、发电机及轮边总成是国内系列最全，覆盖面最广的配套产品。2014年成功为神华北电配套电动机及发电机，在国内第一个实现该系列产品的国产化。同时将国外品牌产品（如：小松、卡特彼勒、特雷克斯、别拉斯）进行了国产化升级，性能指标不低于GE、西门子产品。该系列产品配套在108吨到400吨自卸车上，应用于国内外大型露天矿山及主机厂。

DALIAN RIQIAN MOTOR CO.,LTD , generators, and wheel assemblies for mining dump trucks developed by Nichuan are the most comprehensive and widely covered supporting products in China. In 2014, we successfully provided motors and generators for Shenhua Electric, becoming the first domestic manufacturer of this series of products. At the same time, foreign brand products such as Komatsu, Caterpillar, Terex, and Belaz have been domestically upgraded, with performance indicators not lower than those of GE and Siemens products. This series of products is compatible with dump trucks ranging from 108 tons to 400 tons and is used in large open-pit mines and host factories both domestically and internationally.



进口电机国产化系列产品  
Imported motor domestication series products

序号 Number	电机名称 Motor Name	电机型号 Motor Model	电机功率 MotorPower	适用车型 Applicable Vehicle Models
01	轮边电机 Wheel edge motor	RQDB-154	537.3kW	小松630E 矿用自卸车 Komatsu 630E mining dump truck
	主发电机 Main generator	RQDF-154	1120kVA	
02	轮边电机 Wheel edge motor	RQDB-170	552kW	小松730E 矿用自卸车 Komatsu 730E mining dump truck
	主发电机 Main generator	RQDF-170	1223kVA	
03	轮边电机 Wheel edge motor	RQDB1/2-230	780kW	小松830E 矿用自卸车 Komatsu 830E mining dump truck 特雷克斯MT4400 矿用自卸车 Terex MT4400 mining dump truck
	主发电机 Main generator	RQDF-230	2000kVA	
04	轮边电机 Wheel edge motor	RQDB-320	990kW	小松930E 矿用自卸车 Komatsu 930E mining dump truck
	主发电机 Main generator	RQDF-320	2000kVA	
05	轮边电机 Wheel edge motor	RQDB1-130B	590kW	别拉斯75131 矿用自卸车 Belaz 75131 mining dump truck
	主发电机 Main generator	RQDF-130B	800kVA	
06	轮边电机 Wheel edge motor	RQDB-220B	560kW	别拉斯75306 矿用自卸车 Belaz 75306 mining dump truck
	主发电机 Main generator	RQDF-220B	1800kVA	

1-2

露天矿山领域  
OPEN PIT FIELD

电传动矿用自卸车系列  
Electric Drive Mining Dump Truck Series



别拉斯/GE电机国产化系列应用  
Belaz/GE Application of domestication series of motors



徐工/三一电传动自卸车配套电机系列产品  
XCMG/Sany Electric drive dump truck supporting motor series products



别拉斯系列 Belaz Series

别拉斯系列 Belaz series	75131电动机 Electric motor	75131发电机 Alternator	75180电动机 Electric motor	75180发电机 Alternator	7530电动机 Electric motor	7530发电机 Alternator
功率 Power (kW)	590	800	600	1158	560	1800
电压 Voltage (V)	830	700	830	795	700	780
转速 Speed (rpm)	2500	1900	2500	1900	2500	1900

GE系列 GE Series

GE系列 GE series	730E电动机 Electric motor	730E发电机 Alternator	830E电动机 Electric motor	830E发电机 Alternator	930E电动机 Electric motor	930E发电机 Alternator	4400电动机 Electric motor	4400发电机 Alternator
功率 Power (kW)	552	1223	780	2000	990	2000	800	2000
电压 Voltage (V)	1100	1100	1100	1100	1100	1100	1100	1100
转速 Speed (rpm)	3000	1900	3000	1900	3000	1900	3000	1900

徐工系列 XCMG Series

徐工系列 XCMG series	RQDB-120X	RQDF-120X	RQDB-170X	RQDF-170X	RQDB-200X	RQDF-200X	RQDB-260X	RQDF-260X
功率 Power (kW)	360	865	780	2000	590	1300	800	2000
电压 Voltage (V)	1140	1140	1140	1140	1140	1140	1140	1140
转速 Speed (rpm)	3600	1900	3000	1900	3000	1900	3000	1900

三一系列 Sany Series

三一系列 Sany series	SRE150	SRE150	SRE230	SRE230
功率 Power (kW)	550	550	800	2000
电压 Voltage (V)	1250	1250	1100	1100
速比/转速 Speed ratio/Speed (rpm)	30.36/3000	1900	31.875/3000	1900

1-3

## 露天矿山领域 OPEN PIT FIELD

### 电铲系列 Electric Shovel Series



2004年为太重成功配套4立方电铲系列电机,目前已涵盖国内4立方~60立方电铲电机全系列产品,并开发了电铲电控系统,同时将国外品牌产品(如:比塞洛斯、P&H、EKG)进行了全系列国产化升级。2016年公司开始研发大吨位液压挖掘机电机,产品主要配套于60吨-400吨液压挖掘机。

In 2004, we successfully matched the 4-cube electric shovel series motors for Taizhong. Currently, we have covered the full range of 4-cube~60 cubic electric shovel motors in China and developed an electric shovel control system. At the same time, we have upgraded the domestic production of foreign brand products such as Biselos, P&H, and EKG. In 2016, the company began developing motors for large tonnage hydraulic excavators, which are mainly used in 60-400 ton hydraulic excavators.

进口电铲电机国产化 Domestication of imported electric shovel motors	国产电铲电机配套 Localization of domestic electric shovel motors
美国BE电铲395B提升电机 American BE electric shovel 395B lifting motor	太重4立电铲 全套电机 Heavy 4-liter electric shovel complete set of motors
美国BE电铲495B提升电机 American BE electric shovel 495B lifting motor	
美国BE电铲495B电铲推压电机 American BE electric shovel 495B electric shovel push motor	
美国BE电铲495B电铲回转电机 American BE electric shovel 495B electric shovel rotary motor	太重10立电铲 全套电机 Heavy 10 cubic electric shovel complete set of motors
俄罗斯EKG电铲5立电铲提升电机 Russian EKG electric shovel 5-liter electric shovel lifting motor	
俄罗斯EKG电铲15立方电铲机组 Russian EKG electric shovel 15 cubic meter electric shovel unit	



### 矿用装载机电机 Mining Loader Motor

2018年开始研发此类产品,设计采用独立四轮电气驱动,由电机和减速部分组成,此设计传动比大、空间紧凑、单位体积扭矩输出大、过载能力强、抗冲击。2019年为徐工铲运成功配套中国首台电动轮式装载机电机。

We started developing this type of product in 2018. The design adopts independent four-wheel electric drive, which is composed of a motor and a reduction part. This design has a large transmission ratio, compact space, high torque output per unit volume, strong overload capacity, and shock resistance. In 2019, XCMG successfully matched the motor of China's first electric wheel loader for shovel transportation.



徐工铲运电动轮式装载机XC9350  
XC9350 XCMG shovel electric wheel loader

### 电动液压铲电机 Electric Hydraulic Shovel Motor



#### 电机型号 Motor model

XCMG-M450-1200B

#### 功率 Power

1200kW

#### 电压 Voltage

6000V

#### 频率 Frequency

60HZ

#### 转速 Speed

1786rpm

#### 工作制 Work system

S1

#### 冷却形式 Cooling form

IC611

#### 绝缘等级 Insulation level

H级

#### 电机型号 Motor model

日立 EX2500/EX3600

#### 功率 Power

860kW/1200kW

#### 电压 Voltage

6000V

#### 频率 Frequency

50HZ

#### 转速 Speed

1480rpm

#### 工作制 Work system

S1

#### 冷却形式 Cooling form

IC611

#### 绝缘等级 Insulation level

C级

#### 电机型号 Motor model

XCMG-M450-1200B

#### 功率 Power

1200kW

#### 电压 Voltage

6000V

#### 电流 Electric current

134A

#### 频率 Frequency

60HZ

#### 转速 Speed

1786rpm

#### 工作制 Work system

S1

#### 冷却形式 Cooling form

IC611

#### 绝缘等级 Insulation level

H级

2-1

轨道交通领域  
RAILTRANSIT SECTOR

内燃机车牵引电机  
Diesel locomotive traction motor

此类电机应用于内燃机车头。适用于6000马力重载内燃机车，已形成批量生产能力。该电机具有扭矩大、恒功范围高等特点。

This type of motor is applied to the locomotive of internal combustion engines. Suitable for 6000 horsepower heavy-duty diesel locomotives, it has formed mass production capacity. This motor has the characteristics of high torque and high constant power range.



内燃机车牵引电机  
Diesel locomotive traction motor

此类电机应用于东方8B内燃机车上。适用于东方8B内燃机车，已形成批量生产能力。

This type of motor is applied to the Dongfang 8B diesel locomotive. Suitable for Dongfang 8B diesel locomotives, it has formed mass production capacity.



中亚铁路牵引电机  
Central Asia railway traction motor

此类电机应用于中亚矿山重载机车。结构复杂，功率520kW，已经形成批量生产。

This type of motor is used for heavy-duty locomotives in Central Asia mines. The structure is complex, with a power of 520kW, and has already formed mass production.



交流牵引电机  
Communication traction motor

此类电机为三相鼠笼式异步牵引电动机。应用于交流传动内燃机车。牵引电机额定功率435kW。

This type of motor is a three-phase squirrel cage asynchronous traction motor. Applied to AC transmission diesel locomotives. The rated power of the traction motor is 435kW.



YVF系列牵引电机  
YVF series traction motor

此类电机应用于矿山蓄电池机车。从2008年开始已经研发生产从22kW-260kW的牵引电机产品。

This type of motor is used in mining battery locomotives. Since 2008, we have been developing and producing traction motor products ranging from 22kW to 260kW.



内燃机车牵引电机  
Diesel locomotive traction motor

此类电机应用于内燃机车头。适用于4000马力重载内燃机车，已形成批量生产能力。该电机具有扭矩大、恒功范围高等特点。

This type of motor is applied to the locomotive of internal combustion engines. Suitable for 4000 horsepower heavy-duty diesel locomotives, it has formed mass production capacity. This motor has the characteristics of high torque and high constant power range.

美国用牵引电机  
Traction motors used in the United States

此类电机应用于架线机车。出口美国，功率350kW。

This type of motor is used for overhead locomotives. Exported to the United States, with a power of 350kW.

HXD3 型牵引电机  
HXD3 type traction motor

此类电机应用于客运干线类机车“和谐号”。从2010年开始已经研发生产，已经形成批量生产。

This type of motor is applied to the passenger mainline locomotive "Harmony". It has been developed and produced since 2010, and has formed mass production.

城轨系列电机  
Urban rail transit motor series

此类电机应用于城轨机车。从2009年开始已经研发生产，曾用于大连金马轨道公司。功率：180kW。

This type of motor is applied to urban rail locomotives. It has been developed and produced since 2009 and has been used for Dalian Jinma Rail Company. Power: 180kW.

日牵在轨道交通领域自主研发了工矿牵引车电机、民用轨道机车用电机，隧道车电机、内燃机车电机、电力机车电机等。

Riqian has independently developed electric motors for industrial and mining traction vehicles, civil rail locomotives, tunnel cars, diesel locomotives, and electric locomotives in the field of rail transit.

2-2

轨道交通领域  
RAILTRANSIT SECTOR

牵引电机车电机是最早产品之一，已生产20余年，分直流和交流两种形式，此类电机有特殊防爆结构，广泛应用于8—200吨井下电机车、矿山干线机车及铁路机车，同时也与国内各大机车主机厂合作。作为公司最早的产品之一，市场占有率有已达70%，产品已经遍布国内各大矿山。

The traction electric locomotive motor is one of the earliest products, which has been produced for more than 20 years and is available in both DC and AC forms. This type of motor has a special explosion-proof structure and is widely used in 8-200 ton underground electric locomotives, mining mainline locomotives, and railway locomotives. It also cooperates with major locomotive manufacturers in China. As one of the earliest products of the company, the market share has reached 70%, and the products have been distributed in major mines in China.

轨道车系列  
Rail Car Series

中亚用ZQ-520机车牵引电机  
Central Asia uses ZQ-520 locomotive traction motor

额定功率 Rated power: 520kW  
额定电压 Rated voltage: 1475V (DC)  
额定转速 Rated speed: 680rpm

美国用ZQ-350机车牵引电机  
ZQ-350 locomotive traction motor used in the United States

额定功率 Rated power: 350kW  
额定电压 Rated voltage: 1500V (DC)  
额定转速 Rated speed: 760rpm

YF55机车牵引电机  
YF55 locomotive traction motor

额定功率 Rated power: 55kW  
额定电压 Rated voltage: 380V  
额定转速 Rated speed: 1474rpm

ZQ118机车牵引电机  
ZQ118 locomotive traction motor

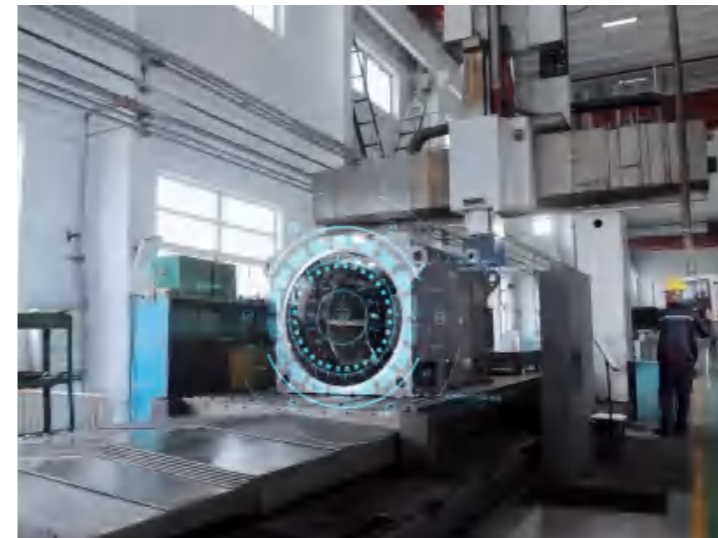
额定功率 Rated power: 305kW  
额定电压 Rated voltage: 463V  
额定转速 Rated speed: 585rpm



机车电机系列  
Locomotive Motor Series

日牵为中车集团各大主机厂配套动车组内燃动力包发电机及驱动电机。为中车大连机车研究所配套内燃机车动力包发电机，满足各项欧盟标准，并以优异的性能得到客户认可。

RIQIAN provides internal combustion power generators and drive motors for various major OEMs of CRRC Group's high-speed trains. To provide diesel locomotive power pack generators for CRRC Dalian Locomotive Research Institute, which meet various EU standards and have been recognized by customers for their excellent performance.



- 无刷励磁发电机用于新加坡项目  
Brushless excitation generator used in Singapore project
- 永磁发电机用于智利项目  
Permanent magnet generator used in Chile project

无刷励磁发电机  
Brushless excitation generator

电机型号 Motor model: TQFW619  
额定功率 Rated power: 600kW  
额定电压 Rated voltage: 1170V  
额定电流 Rated current: 324A  
额定转速 Rated speed: 1800r/min  
极数 Extreme numbers: 6



永磁发电机  
Permanent magnet generator

电机型号 Motor model: TZ500-FDJ650  
额定功率 Rated power: 650kW  
极数 Extreme numbers: 8  
额定电压 Rated voltage: 1295V  
额定电流 Rated current: 308A



永磁发电机  
Permanent magnet generator

电机型号 Motor model: TZ500-FDJ345  
额定功率 Rated power: 345kW  
极数 Extreme numbers: 8  
额定电压 Rated voltage: 2355V  
额定电流 Rated current: 90A



# 3-1

## 井下矿领域 UNDERGROUND MINING FIELD

日牵研制的井工矿防爆电动胶轮车产品驱动系统采用开关磁阻电机及电控,具有宽高效范围、起动电流小、可频繁启停、抗冲击、耐高温、性能不随时间衰减、过载能力强等诸多优点。作为国内较早开发开关磁阻电机动力系统的公司,将为中国井下工程运输装备驱动系统发展竖起新的里程碑。

The drive system of the explosion-proof electric rubber tired vehicle developed by RIQIAN adopts a switched reluctance motor and electronic control, which has many advantages such as a wide and efficient range, low starting current, frequent start stop, impact resistance, high temperature resistance, performance not deteriorating over time, and strong overload capacity. As one of the earliest companies in China to develop switched reluctance motor power systems, it will set a new milestone for the development of drive systems for underground engineering transportation equipment in China.



型号 Type **KCB-80B**

电气参数 Electrical parameters		电气性能 Electrical performance parameters		工作特性 Job characteristics	
额定功率 Rated power	80kW	额定电流 Rated current	155A	工作制 Work system	S2-60min
额定母线电压 Rated bus voltage	320VDC~640VDC	绝缘等级 Insulation level	H级	额定效率 Rated efficiency	320VDC~640VDC
额定转速 Rated speed	1500r/min	防爆等级 Explosion proof grade	ExdI	效率特性 Efficiency characteristics	80% 高效区应不低于运行区间的 70% The 80% efficient zone should not be less than 70% of the operating range
最高转速 Maximum speed	4500r/min	防护等级 Protection level	IP55(与减速机安装后) IP55 (after installation with gearbox)		
额定转矩 Rated torque	509.3N.m	冷却方式 Cooling method	液冷 Liquid cooling	转矩输出特性 Torque output characteristics	2000rpm 以下恒转矩特性2000-4000rpm恒功率特性 4000-4500rpm 以上自然特性运行,4500rpm 时输出功率应大于额定功率的 50%。  Constant torque characteristics below 2000rpm, constant power characteristics between 2000-4000rpm, and natural characteristics above 4000-4500rpm. At 4500rpm, the output power should be greater than 50% of the rated power.
峰值转矩 Peak torque	700N.m (S2-30S 持续至 500rpm 以上) (S2-30S continues above 500rpm)	重量 kg weight	230 左右 Around 230		
堵转转矩 Locked rotor torque	不小于峰值转矩 Not less than peak torque	过载特性 Overload characteristics	2000rpm时,输出功率50KW 持续时间不小于 15min。 At 2000rpm, output power of 50KW for a duration of not less than 15 minutes.		

## 大型同步机系列 Large Synchronous Machine Series

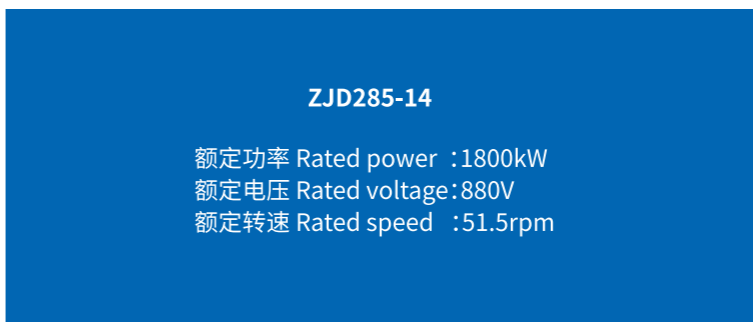
TDMK系列同步电机广泛应用于矿山、水泥等行业。用于驱动转速较低、功率较大的机械设备,包括球磨机、棒磨机、磨煤机等,已出口多种规格的同步电机,功率范围涵盖320-3150kW。生产过最大的竖井提升电机直径长达4.2米,功率2600千瓦,单体重量为135吨,是迄今为止国内生产的最大的单体电机。

The TDMK series synchronous motors are widely used in industries such as mining and cement. Used to drive mechanical equipment with low speed and high power, including ball mills, rod mills, coal mills, etc., various specifications of synchronous motors have been exported, with a power range of 320-3150kW. The largest vertical shaft lifting motor ever produced has a diameter of up to 4.2 meters, a power of 2600 kilowatts, and a single weight of 135 tons, making it the largest single motor produced domestically so far.



**TDMK1250-32**

额定功率 Rated power :1250kW  
额定电压 Rated voltage: 6000V  
额定转速 Rated speed : 187.5rpm



**ZJD285-14**

额定功率 Rated power :1800kW  
额定电压 Rated voltage:880V  
额定转速 Rated speed :51.5rpm



**TDMK630**

额定功率 Rated power :630kW  
额定电压 Rated voltage:6000V  
额定转速 Rated speed :250rpm



**SDN-2500-6-6 UHL4**

额定功率 Rated power :2500KW  
额定电压 Rated voltage:6000V  
额定转速 Rated speed :1000rpm



4-1

冶金起重领域  
METALLURGICAL LIFTING FIELD

日牵在冶金起重领域自主研发了塔机电机、港机电机、冶金及起重电机和辊道电机。

RIQIAN has independently developed tower crane motors, port crane motors, metallurgical and lifting motors, and roller conveyor motors in the field of metallurgical lifting.

YZR系列产品机座号中心高从112-560 (mm), 功率从1.5-800kW, 601个规格; YZP2系列产品机座号中心高从112-560 (mm), 功率从0.55kW-1600kW, 共137规格。

The YZR series products have a machine base size center height ranging from 112-560 (mm) and a power range of 1.5-800kW, with 601 specifications; The center height of the YZP2 series products ranges from 112-560 (mm), and the power ranges from 0.55kW-1600kW, with a total of 137 specifications.



为大连重工、起重、太重、河南卫华、株洲天桥起重等起重机行业, 上海振华、南京港机、青岛海西和三一重工等的国内大型港机主机厂提供了各种起重机械设备用电机。

For the crane industry of Dalian Heavy Industry, Crane, Taizhong, Henan Weihua, Zhuzhou Tianqiao Crane, and other large domestic port machinery manufacturers such as Shanghai Zhenhua, Nanjing Port Machinery, Qingdao Haixi, and Sany Heavy Industry provide various motors for lifting machinery equipment.



优化设计了6-12吨起升YZP2TE系列, 回转YTRVF系列和变幅YVFE3系列电机, 6-12吨塔机电机具备成套化配套能力; 优化制动器设计, 形成日牵电机专用的制动器产品, 对新型电机+制动器进行可靠性和稳定性试验考核, 制动器DDZ450获得第三方认证。目前已经批量为徐工塔机配套, 申报欧盟CE认证。

Optimized the design of 6-12 ton lifting YZP2TE series, rotary YTRVF series, and variable amplitude YVFE3 series motors, and equipped 6-12 ton tower crane motors with complete matching capabilities; Optimize the brake design, develop a brake product specifically for DALIAN RIQIAN MOTOR CO., LTD. conduct reliability and stability tests on the new motor and brake, and obtain third-party certification for brake DDZ450. At present, it has been mass-produced for XCMG tower cranes and applied for EU CE certification.

# 服务体系 SERVICE SYSTEM

## 维修再制造服务 Repair And Remanufacturing Services

维修再制造是日牵电机首创的电机维修品牌，凭借丰富的电机开发、生产制造、检验检测、质量评估经验，使得日牵维修再制造服务在行业始终处于领先水平。公司重点发展产业大中型电机的维修再制造服务业务，利用多年的研发生产经验，成为中国北方最大的电机维修再制造服务维修中心。未来将在中亚市场建立海外维修基地，更好的为全世界客户服务。

Repair and Remanufacturing is the first motor repair brand of DALIAN RIQIAN MOTOR CO.,LTD. With rich experience in motor development, production, inspection, testing, and quality evaluation, DALIAN RIQIAN MOTOR CO.,LTD repair and remanufacturing services have always been at the forefront of the industry. The company focuses on developing maintenance and remanufacturing services for large and medium-sized motors in the industry, utilizing years of research and development production experience to become the largest motor maintenance and remanufacturing service center in northern China. In the future, we will establish overseas maintenance bases in the Central Asian market to better serve customers worldwide.

以客户为中心，“**全心全域全服务**”，提供全生命周期保障。  
Putting customers at the center, providing "wholehearted, all domain, all service", and offering full lifecycle protection.

服务宗旨 Service Objective

**15**分钟响应，**4**小时提供解决方案，**24**小时到达现场。  
15 minute response time, 4-hour solution, 24-hour on-site arrival.

服务承诺 Service Commitment

电修工艺流程图  
Electrical Maintenance  
Process Flow Chart



服务流程 Service Process

全生命周期服务  
Full Lifecycle Services

矿用设备维修以及配件生产资质证书  
Mining equipment maintenance and  
accessory production qualification certificate



如遇现场不能及时修复的产品，  
公司免费先发送新产品给客户，让客户第一时间恢复生产。  
In case of products that cannot be repaired on site in a timely manner,  
the company will send new products to customers free of charge,  
allowing them to resume production as soon as possible.

服务保障 Service Guarantee

工程师**26**人，其中国内**20**人，国外**6**人  
26 engineers, including 20 from China and 6 from abroad

服务团队 Service Team





目前管理及技术人员近50人,团队技术人员根据工种不同分为**机工班组, 电工班组, 焊工班组**,并另设**项目经理、技术经理、安全经理、计划员**,将职能合理规划,生产管理井然有序,开工以来,各方面都取得了良好的发展。

At present, there are nearly 50 management and technical personnel. The team of technical personnel is divided into mechanical work team, electrical work team, welding work team according to different job types, and there are also project managers, technical managers, safety managers, and planners. The functions are reasonably planned, and the production management is orderly. Since the start of construction, good development has been achieved in all aspects.

### 矿车维保及大修

## Mine Car Maintenance And Major Repairs

日牵电机目前在内蒙准格尔、海拉尔建立矿车大修和矿车维保的服务体系,满足整机、发动机、车桥等大修需求。针对矿车整车进行设备日常巡检、定期保养、设备维修、设备整改等业务。

At present, DALIAN RIQIAN MOTOR CO.,LTD has established a service system for the overhaul and maintenance of mining cars in Zhungeer and Hailar, Inner Mongolia, to meet the overhaul needs of the whole machine, engine, axle, etc. Conduct daily equipment inspections, regular maintenance, equipment repair, and equipment rectification for the entire mining truck.



合作伙伴

PRODUCTION CAPACITY



日牵电机产品已覆盖全球**20**个国家  
在“一带一路”沿线市场布局，产品远销，中东、中亚、东盟、外蒙、欧洲等地。

DALIAN RIQIAN MOTOR CO.,LTD products have covered 20 countries worldwide  
Market layout along the the Belt and Road, products are exported to the Middle East, Russia, ASEAN, Outer Mongolia, Europe and other places.

**320+**  
我们的客户  
OUR CLIENTS

**220+**  
主要供应商合作伙伴  
MAJOR SUPPLIER PARTNERS