



合肥博微田村电气有限公司

HEFEI ECRIEE-TAMURA ELECTRIC CO., LTD.

简介

Brief Introduction



2018世界500强企业排名第**388**名

年营业额**78510.8**百万美元

中国工程院院士**11**名
国家级科技人才**487**人

中国电子科技集团第三十八研究所

年营业额**1850**百万美元

中国工程院院士**2**名
国家级科技人才**45**人



简介

Brief Introduction



█ 株式会社田村制作所
⌚ 始创于**1924**年
▀ 资本金**11,829**百万日元

since
1924

1924~
开始制作及销售收音机、留声机



1930

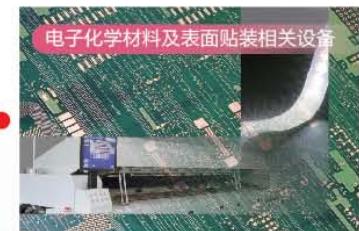
1930~
变压器自制生产Biltrite问世



三大
领域



在全球市场推广
对节能型社会有所贡献的产品阵容



用有利于保护环境的材料、装置
不断改进焊接接合技术



以广播和通信技术为基础
致力于创建安心、安全、舒适的社会



博微电气

ECRIEE TAMURA

成立于**2000年**
Founded in 2000



CETC 中国电子科技集团公司第三十八研究所
THE 38TH RESEARCH INSTITUTE OF CHINA ELECTRONICS TECHNOLOGY GROUP CORPORATION

50%



株式会社田村制作所 **50%**



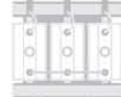
华电工厂
HUADIAN FACTORY

Number of employees **634**



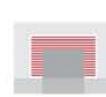
南岗工厂
NANGANG FACTORY

Number of employees **183**



肥西工厂
FEIXI FACTORY

Number of employees **120**



天门湖工厂
TIANMENHU FACTORY

Number of employees **120**



寄语

Top Message

使命

Mission



以顾客为关注焦点，为社会提供高效率、高品质、持久可靠的磁性元件。

Focus on customers, our company provide high efficiency, high quality and reliable magnetic components.

专注于目标实现的过程管理，实现员工、公司与社会可持续发展。

We commit to contributing sustainable development of our employee, our corporate and society.

为社会提供高效率、高品质、持久可靠的磁性元件和电力电子产品。

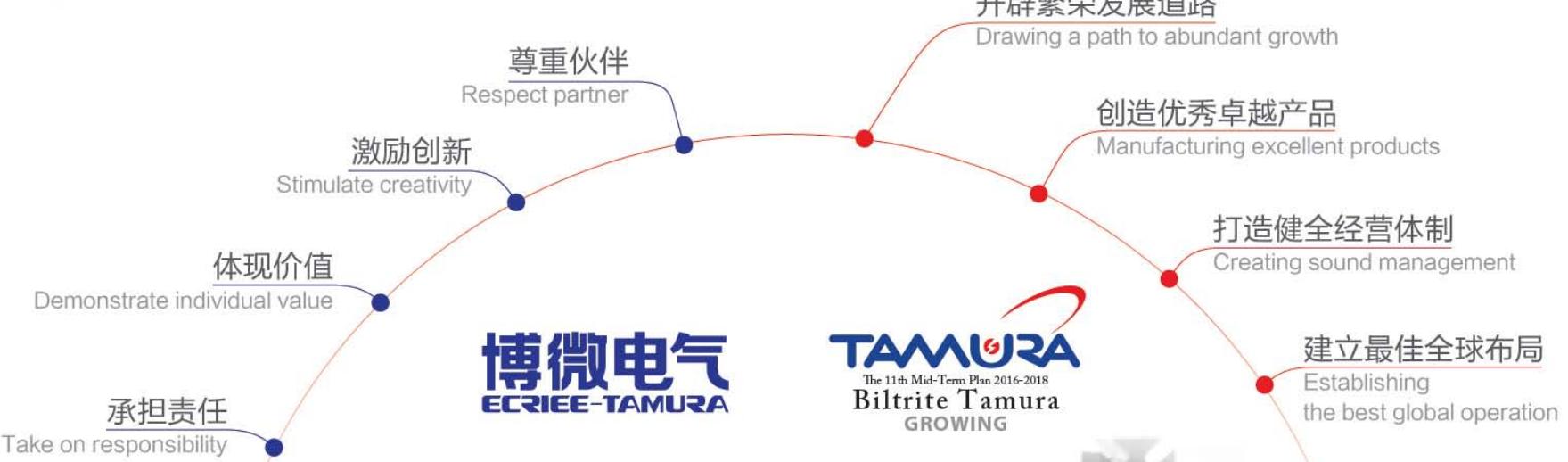
To provide the society with efficient, high-quality, durable and reliable magnetic elements and power electronic product.

抑制电磁污染，提高能源转换效率。

Control electromagnetic pollution and increasing energy conversion efficiency.

价值观

Values



产品和技术路线 Products and Technology Roadmap

继承、改革和创新



1992

1998

2001

2003

2005

2007

2009

2011

2013

2015

2017

从军工磁性元件技术
转向民用电子变压器、电抗器
From High-tech Military Magnetics to Civil Application

扩展到
工业变压器、电抗器
Expanding to Industrial Area

到大型变压器
以及各类磁性元件
Large Transformer & Reactor, all Kinds of Magnetics

智能供配电
和电力电子装置
*Intelligent Power Distribution
and Power Electronic Devices*

电力产品
Power Distribution and Control Unit

系统解决方案
Power Distribution and Control Unit

基础磁性材料
Basic Magnetic Materials



1930
变压器自制生产Bilrite问世

1965

1996

2000

2002

2004

2006

2008

2010

2012

2014

2016

2018

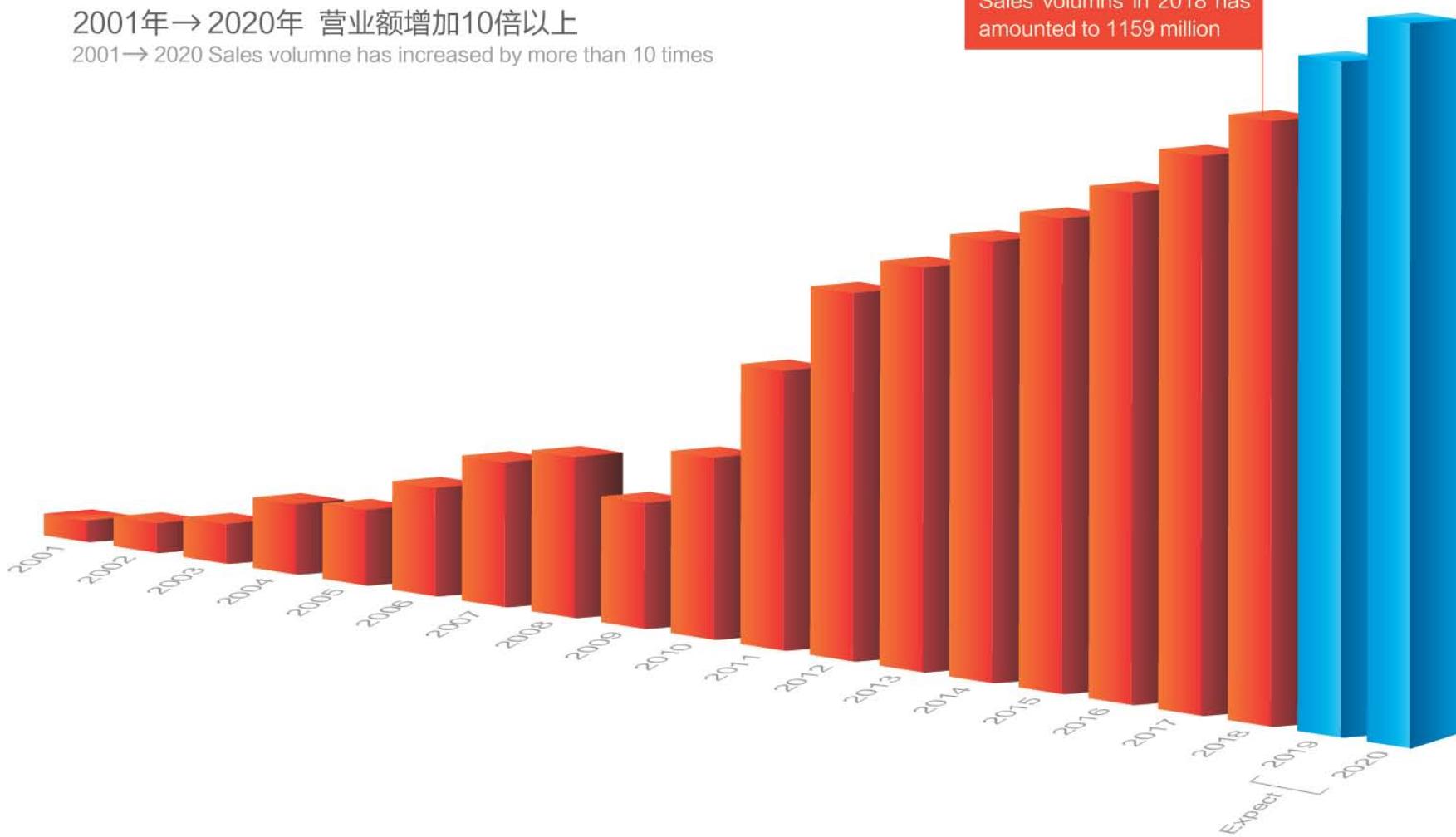


2001年-2020年经营实绩与计划

2001-2020 Actual&Plan

2001年→2020年 营业额增加10倍以上
2001→2020 Sales volumne has increased by more than 10 times

2018年营业额达到11.59亿元
Sales volumns in 2018 has amounted to 1159 million



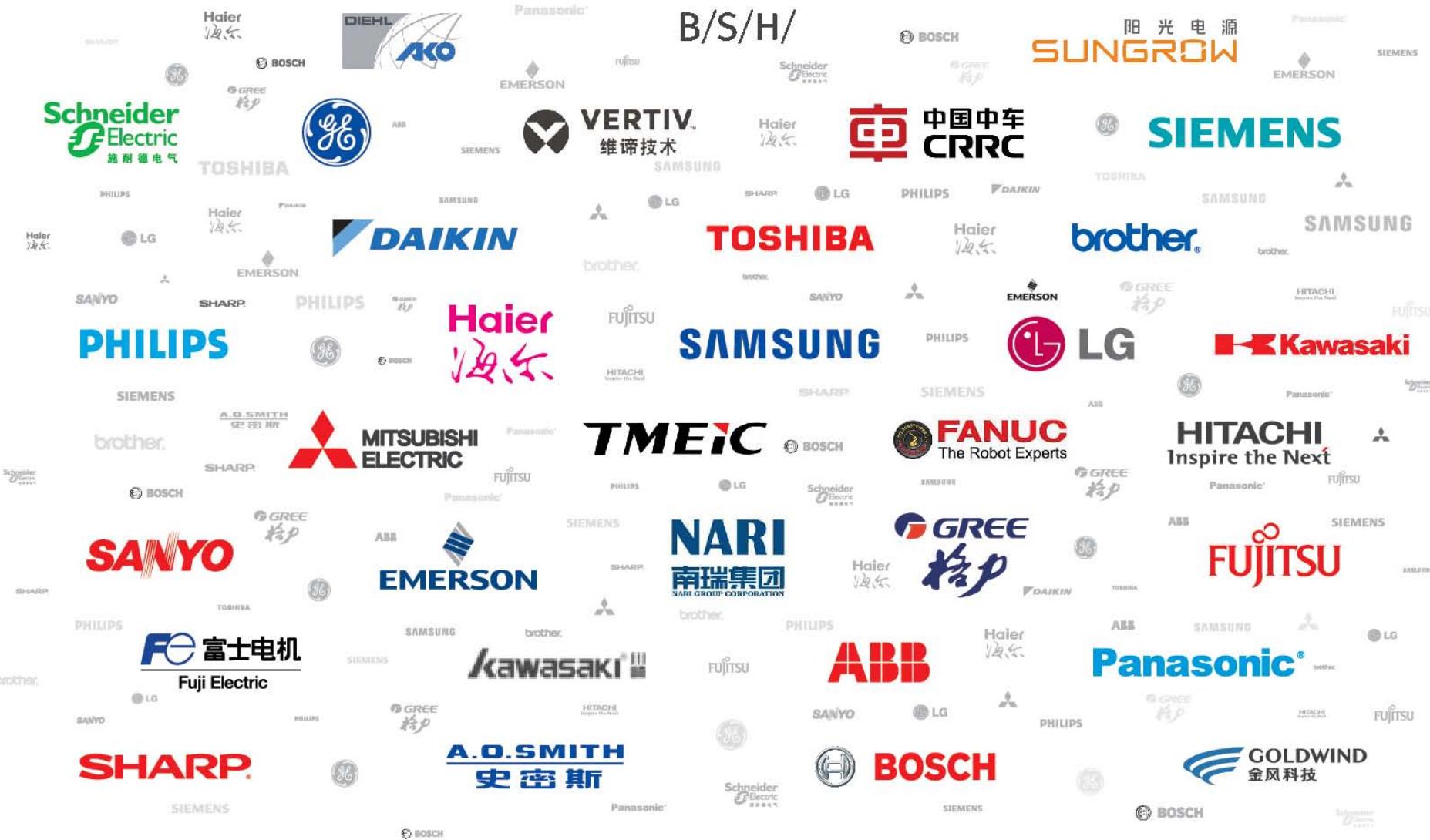
我们的合作伙伴遍布世界18个国家

Our cooperative partners have covered
more than 18 countries throughout the world



我们的部分客户

Part of our customers



设计能力

Design Capacity



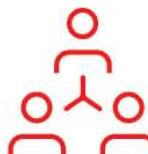
技术人员134人
134 technicians

- 本科及其他**83人**
83 undergraduates and others
- 硕士**42人**
42 masters
- 博士**4人**
4 doctors
- 高级专家**5人**
5 senior experts



专职研发人员36人
36 full-time R&D personnel

- 硕士**26人**
26 masters
- 本科**8人**
8 undergraduates
- 博士**2人**
2 doctors



研发团队基本情况

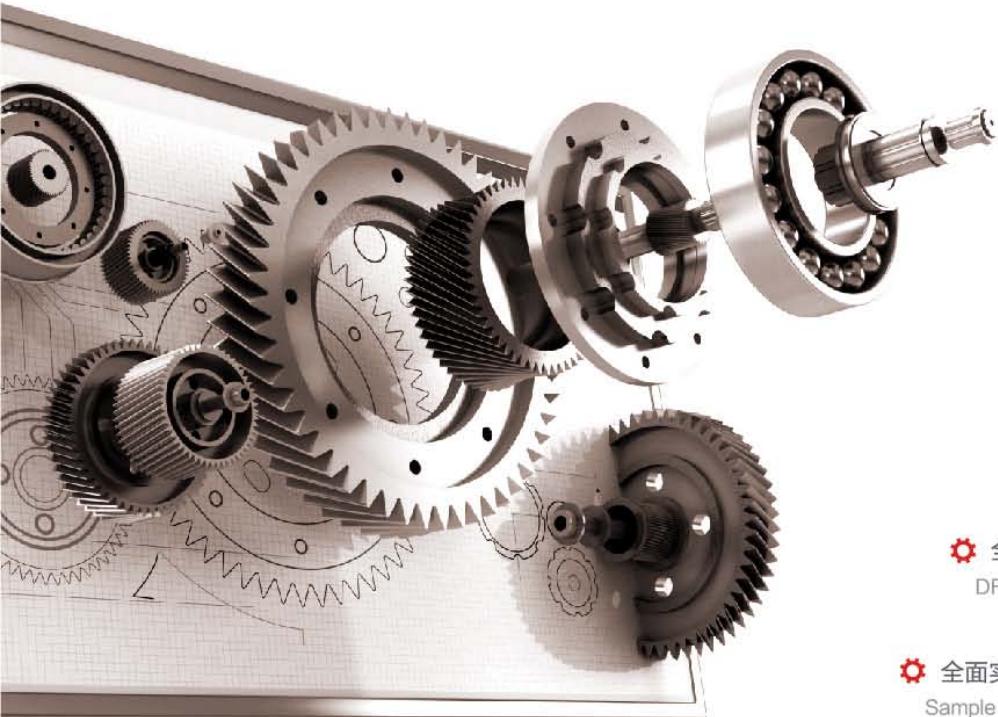
公司现有各类研发及技术服务人员134人，高级专家5人、博士4人，专业涵盖磁性材料、机械设计、计算机、电子信息、电气制造、电气自动化、工艺管理等专业，技术中心50%以上研发技术人员均具有中高级职称。

The company currently has 134 R&D and technical service personnel, 5 senior experts and 4 PHD majors, covering magnetic materials, mechanical design, computer, electronic information, electrical manufacturing, electrical automation process management, etc. More than 50% of R&D technicians in the technology center have middle and senior titles.



工程能力

Engineering Capacity



- 变压器产品额定功率范围为1W~1MW，频率范围为直流、低频、中频至1 MHz。

The rated power range of production is from 1W to 1MW. The frequency range from DC, low frequency, medium frequency to 1MHz.

- 标准实验室具备全面的仿真分析能力。

Simulation analysis is widely used in standard lab.

- 在设计开发过程中必须进行审核、验证和确认。

Successfully implemented of audit, verify and affirm during development process.

- 全面实施DFMEA、PFMEA。

DFMEA,PFMEA is fully implemented.

- 全面实施样品开发审核并召开PDR会议。

Sample process audit and PDR fully implemented.

- 热磁仿真分析中广泛应用仿真软件。

Simulation software in design is widely used in analysis on the magnetic and thermal transition.

质量方针

Quality Policy



运用基本磁电理论、设计工具和科学实验，充分利用电磁材料、绝缘材料和结构材料的特性，为顾客设计制造半标准化磁性原件；

We design and manufacture customized semi-standardization magnetic on the base of fully utilization of the performance of electro-magnetic materials, insulation materials and framework materials by applying the principles of electro-magnetic, tools of design and scientific tests.



选用、制作设备和工治具，提高生产过程的准确性和效率，追求手工操作的技能技艺，贯彻精益制造思想；

We carry lean-production, improve the efficiency and accuracy in process, choose and design equipment and tooling, pursue handmade skill.



注重在质量实践中学习，有组织地落实预防措施和PDCA，真诚关注顾客体验，及时反馈，追求零缺陷；

We pursue zero-defect, honestly focus on customer experience, bring FMEA and PDCA into effect systematically, lean to learn in practice.



具有世界各种安规标准的对应能力，为地球和人类减少各种资源和成本，使产品具有全球竞争力。

We can comply to all the safety certificates of all the countries, reduce every resource and cost for human beings and the Earth, nurture global competitive force.

质量目标

Quality Objective



\geq
95
%

产品一次交货履约率
Rate of On time Delivery



\geq
90
分

客户满意度
Score of Evaluation for Customer Satisfaction



\leq
200
ppm

交货不良率
Rate of Delivery Rejection



\leq
5
Claims/M

客户投诉件数
Number of Customer Complaint

品质保证

Quality Assurance



按PDCA周期管理

Management according to PDCA cycle

解决问题、重点定向

Focus on priorities in solving problem

基于事实进行管理

Management based on the fact

按生产流程支配

Dominating according to manufacturing practices

防止不良再发生的措施

Measures avoiding defective products

推进标准化

Promoting standardization of management

品质工具的应用

Application of quality tools

持续质量管理的预防措施

Preventive Action for Continuous Quality Management

按照作业指导书生产并检查

Work and Check by the Working Instruction (WI)

按照QC工程图工作及检查

Work and Check by the Quality Control Process Chart

按照操作标准生产及检查

Work and Check by Working Standard

开展PDR：产品设计回顾会议

Carry out a PDR: Production Design Review

开展PFMEA:过程失效模式及后果分析

Carry out a PFMEA: Production Failure Mode Effective

PQC每日两次产线巡检并录入检查表

Twice a Daily on Line Quality Check by PQC using Check List Sheet

依据日质量报表的品质状况，两天开展一次质量会议

Twice a Daily on Line Quality Meeting based on Daily Report of Defects

QC工程师, 线长及PQC开展品质周会

Weekly Quality Meeting by QC Engineers, Line Leaders & PQC

品质管理团队质量周会分析质量问题

Weekly Quality Meeting with Management Teams to analyze Quality Issue.

每周管理层召开客诉对策会议

Weekly Quality Meeting with Management Teams for Customer Complaint

QA针对质量问题每周对操作员、线长及QC人员进行培训

Weekly Quality Education for Operator, Line leader & QC by QA

同日本田村QA召开月度网络质量会议分析质量问题

Monthly WEB Quality Meeting with Tamura Japan QA to analyze Quality Issue

使用8D报告, 5W1H法解决客诉及内部质量问题

Use 8D Report with 5W1H to solve customer complain and internal Quality issue

QC小组人员开展品管圈活动和日会

Start QCC Activity and Daily Meeting by QCC Team

精益生产活动

LEAN MANUFACTURING ACTIVITY



客户
Customers



供应商
Suppliers



生产厂
Manufacturing



库存减少
Decrease Inventory



获得三赢
Attain Win-Win-Win

环境方针

Environmental Policy



我们将追求变压器业务发展的同时，承诺肩负保护环境的责任，履行下列各项环保的原则：

We promise taking the duties of protecting environment and carrying out the following environment protection principles in our business:

遵守与公司的活动、产品或服务相关的环境法律法规及适用的其他要求；
Complying with the environment laws and rules and other customer's requirement.

坚持污染预防、持续改进；努力开发环保的电子产品。
Persist in defending pollution, improving step by step; Try our best to develop the electronic products meeting environment protection rules.

我们的环境承诺

Our Environment Promises



减少电的使用量
Reduce consumption of electric power



减少纸的使用量
Reduce consumption of paper



减少非环保材料的使用
Limiting to use environment pollution materials

不断推行ISO9001和ISO14001在公司内部的持续正确运行
Continuously carry out ISO19001 and ISO14001.

遵照ROHS法则，不断消减六种有害物质（铅、汞、镉、六价铬、PBB、PBDE）的使用，直至彻底消除；和新四种有害物质(DEHP, BBP, DBP, DIBP)
Restrict and finally prohibit the consumption of 6 hazardous substances: Pb, Cd, Hg, Cr6+, PBB, PBDE and New 4 hazardous substances: DEHP, BBP, DBP, DIBP.

按照客户要求进行REACH的161种物质管控
REACH(161 substances) control according to the requirement of the customers.

冲突矿产 (Conflict Mineral) 调查的协助请求
Conflict Minerals Report Form Completion Guideline for EICC/GeSI Template

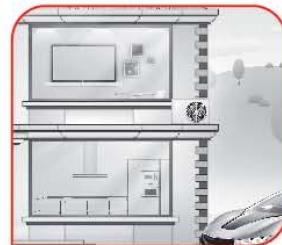
1) 冲突矿产金属：钽铁矿、锡、钨、金
Conflict Minerals of Metals: Tantalite, Tin, Tungsten, Gold. (3TG).
2) 冲突矿产金属已成为侵犯人权和破坏环境的武装组织的主要资金来源，在下列国家中尤其猖狂：南苏丹共和国、中非共和国、刚果共和国、乌干达共和国、卢旺达共和国、布隆迪共和国、安哥拉共和国、坦桑尼亚联合共和国、赞比亚共和国
Conflict Minerals of Metals which become a source of funds for armed groups who cause Violation of Human Rights and Destruction of the Environment:-The Republic of South Sudan, Central African Republic, Republic of Congo, Republic of Uganda, Republic of Rwanda, Republic of Burundi, Republic of Angola, United Republic Tanzania, Republic of Zambia.

服务领域

Supporting Daily Life



支持医疗系统
Supporting Medical System



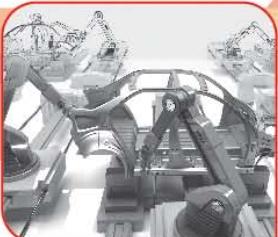
支持生活的基石
Supporting Daily Life



支持新能源
Supporting Renewable Energy



支持车载系统
Supporting Vehicle-mounted System



支持基础工业生产
Supporting Industries



支持公共基础设施
Supporting Public Facilities

支持生活的基石

Supporting Daily Life



超级磁粉电抗器
Supper Magnetic Reactor



一体成型贴片功率电感
SMD Power Inductor



磁性线圈
Magnetic Coils



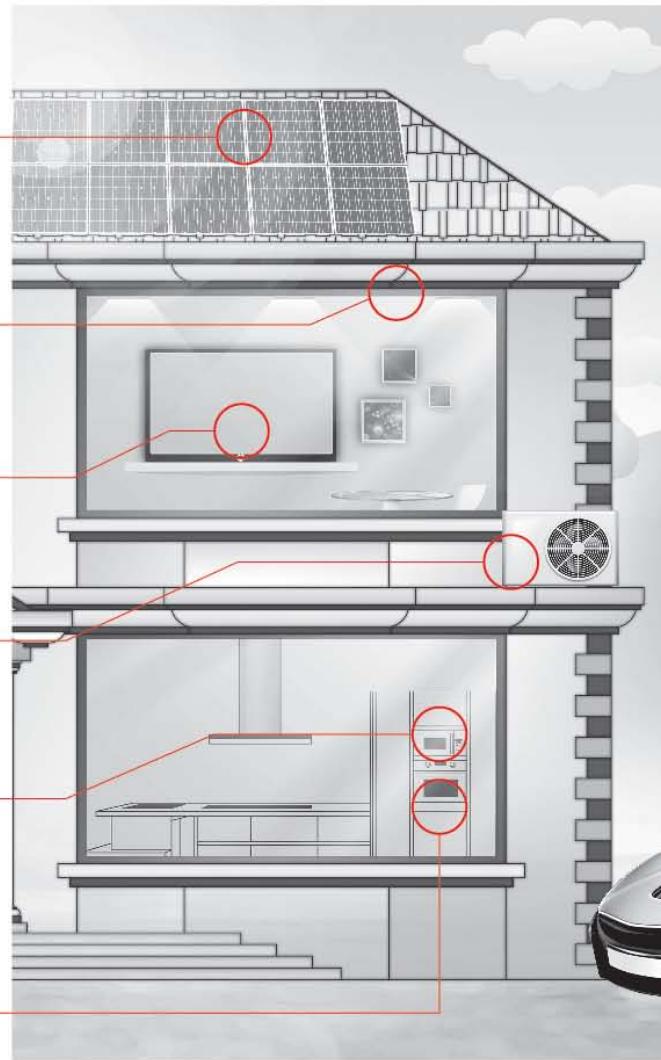
电抗器
Reactor



励磁变压器
Excitation Transformer



家用滤波线圈
Filter Coils for Home Application



支持车载系统

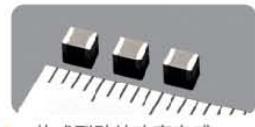
Supporting Vehicle-mounted System



T-BOX



胎压监测仪
TPMS



一体成型贴片功率电感
SMD Power Inductor



侧后视雷达
Side - Looking Radar



共差模一体电感
Common Mode Choke and DM Inductor



高压点火线圈
Vehicle Coil



支持新能源

Supporting Renewable Energy



三相共模电感
Three Phase Common Choke



大型水冷电抗器
Large-scale Water-cooled Reactor



高效铝制工业电抗器
Hybrid-magnetic-circuit



大电流无源滤波器
Heavy Current Passive Filter



塔基变压器
Cabinet tower transformer



直流电抗器
DC Reactor



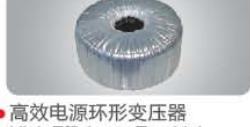
逆变电感ACL
Inverter Inductor ACL



三相逆变电感
Three Phase Inverter Inductor



超级电抗器
SE Reactor



高效电源环形变压器
High Efficiency Toroidal Power Transformer



高效合并式三相电源变压器
High Efficiency Combined Three Phase Power Transformer



高效并网侧三相变压器(SG, SC)
High Efficiency Connected-grid Three Phase Transformer (SG, SC)

支持公共基础设施源

Supporting Public Facilities



航空航天用变压器
Transformer for Aviation and Space Industries



储能变压器
Energy Storage Transformer



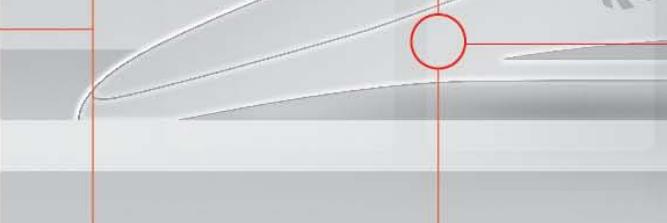
UPS控制变压器
UPS Control Transformer



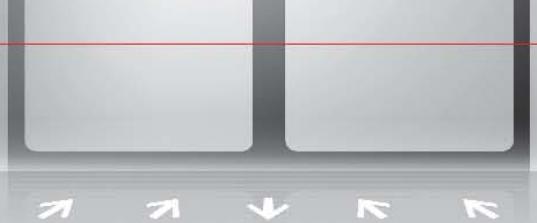
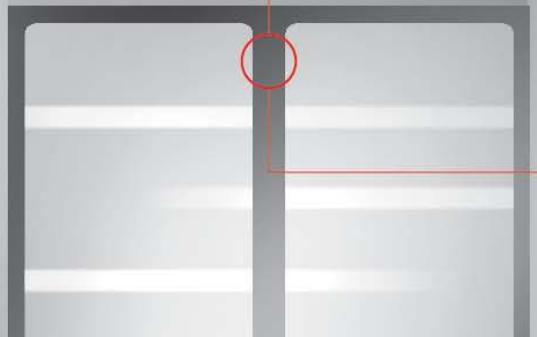
K系数变压器
K-factor Transformer



UPS电抗器
UPS Reactor



注意站台与列车之间的高度差及空隙，小心慢行。开关门时，请勿抢上抢下。



轨道屏蔽门控制变压器
Control Transformer for Railway Shielding Door



直流电抗器
DC Reactor



大功率低压并网隔离变压器
500KVA Isolating Transformer



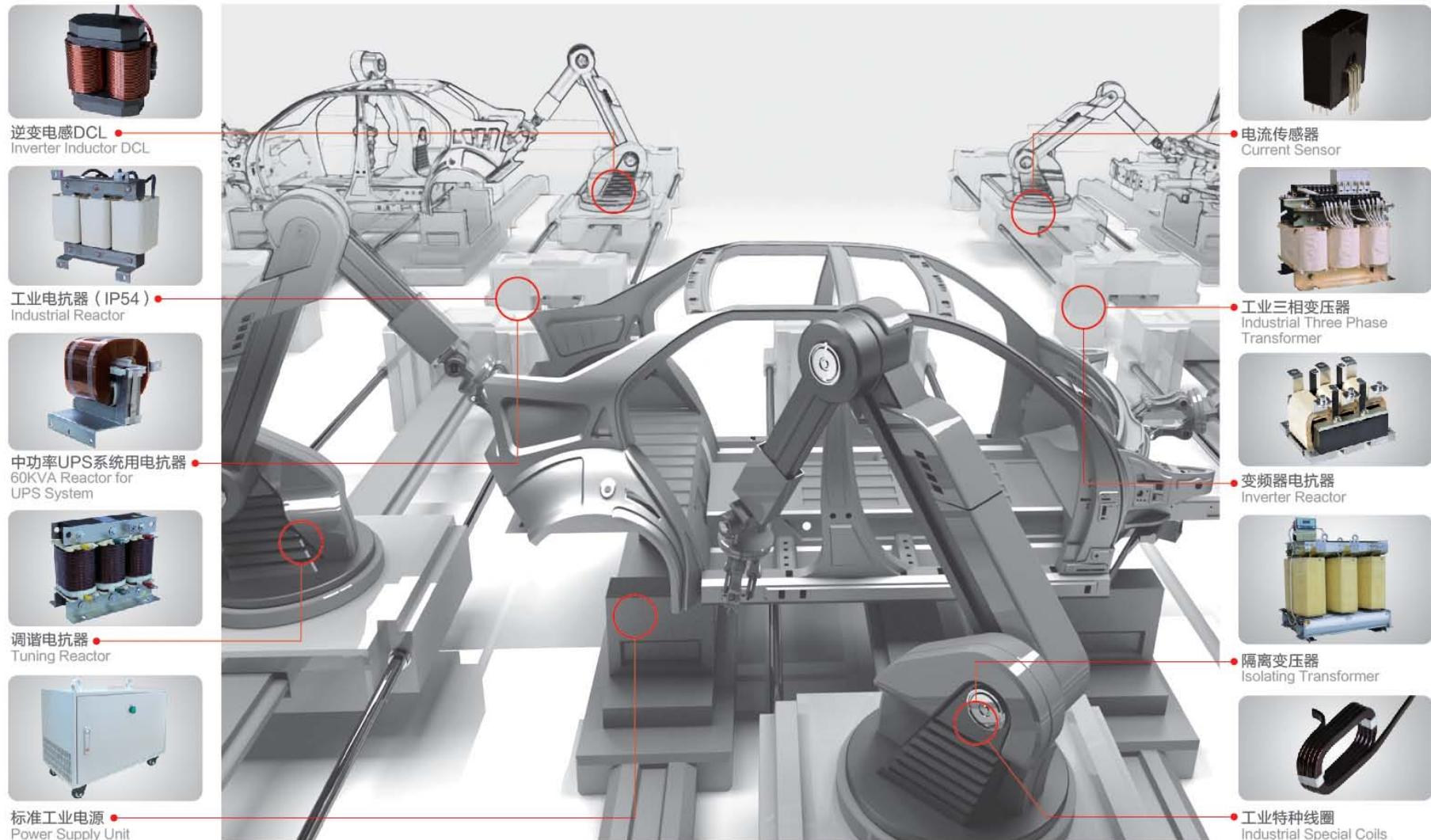
轨道电抗器
Railway Reactor



R型变压器
R-Type Transformer

支持基础工业生产

Supporting Industries



支持医疗系统

Supporting Medical System



80KVA隔离变压器
80KVA Isolating Transformer



中功率UPS系统用电抗器
72KVA Reactor for UPS System



医疗电源柜 (PDU)
Medical Power Distribution Unit (PDU)



开关电源
Switch Mode Power Supply



12脉整流变压器
Twelve-pulse Rectifier Transformer



高压tank
High Voltage Tank



低噪音电抗器
Low Noise Reactor



医疗电源变压器
Medical Power Transformer



数字电路控制板
Digital PCB



线性电源
Linear Power Supply



梯度滤波器
Passive Filter



PDU组件
Medical Power Distribution Unit



磁性元件 创新引领
Magnetic component Leading innovation