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浙达精益
ZHEDA JINGYI
股票代码：831351
Stock code

杭州浙达精益机电技术股份有限公司

Hangzhou Zheda Jingyi
Electromechanical Technology Corporation Limited

www.jingyitech.com

中国创造 · 创造中国
Created in China, Create China

（原杭州浙大精益机电技术工程有限公司）
(Former Hangzhou Zhejiang University Jingyi Electromechanical Technology Engineering Co., Ltd)

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Add: Room 401-405, 18#, Zhejiang Overseas High-Level Talents Innovation Park, No. 998, Wenyi West Road, Yuhang District, Hangzhou City, Zhejiang Province P.R.C

2026-11 (V3)

中国 · 杭州
Hang zhou · China

追求卓越　　诚信共赢

Commitment To Excellence　　Integrity For Win-win

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目 录

企业介绍 | Enterprise Introduction

我们是一家脱胎于浙江大学的民营企业。

公司现有员工180余人，其中：
海外人才4人，教授4人，副教授2人，博士12人，本科及以上学历员工占逾86%。

我们致力于智能制造、高端装备、智能传感、智能检测、军工等领域。

我公司大部分产品为自主研发，设备及其他产品市场占有量皆在国内同行业前列，多种设备是国内首台套，打破了国外企业的长期垄断，取得了业界广泛认可的业绩。

我们是集科学研究、产品开发、工程设计、技术咨询为一体的国家级高新技术企业，2012年被评为杭州十佳高新技术企业。

公司现已取得39项发明专利、36项实用新型专利和10项软件著作权。公司与浙江大学、杭州电子科技大学等长期合作，共享人才资源、共同攻克科研难关。

我们与世界一流企业有良好的供求合作关系，产品出口到欧美、中东等地区。

公司与安塞乐米塔尔、MEER、台湾中鸿钢铁、宝钢、天津钢管公司、胜利油田、中石化、中石油、中海油、浙江特检院、交通运输部公路科学研究院、宾夕法尼亚州立大学、多特蒙德工业大学等百余家企事业单位建立了良好的供求合作关系。

我们以“中国创造，创造中国”为理想，我们致力于打造百年民族品牌。

成为中国智能制造、智能传感、智能检测、军工等行业知名领先的技术、实力型企业，是我们“精益人”孜孜以求的发展目标。

公司于2014年7月改制为股份有限公司，同年10月在“新三板”挂牌上市，股票代码：831351。

经过十年的不懈努力，我们实现业绩稳步增长，现股份制改组已完成，公司股票已在全国中小企业股份转让系统挂牌成功。

Enterprise Introduction

We are a private enterprise born from Zhejiang University.

Among over 180 employees, 86% are with bachelor’ s degree or above, including 4 overseas talents, 4 professors, 2 associate professors and 12 PhD.

We are dedicated to the fields of intelligent manufacturing, advanced equipment, intelligent sensing, intelligent detection, and military industry.

Most of our products are achievements of independent research and development and market share of our equipments and other products in domestic market are taking the leading position.
Multiple equipments are the first-set independently designed and manufactured in China, breaking the long term monopoly of foreign suppliers and widely approved and accepted by the industry.

We are a National High-TECH Enterprise integrated with scientific research, product development, engineering design and technical consultation; and we were awarded as one of The Best Ten High-TECH Enterprises of Hangzhou City in 2012.

We have obtained 39 invention patents, 36 utility model patents and 10 software copyrights. We have established long-term cooperation with institutes like Zhejiang University and Hangzhou Dianzi University, sharing human resources and resolving research difficulties.

Our products have been exported to countries and regions in America, Europe and middle-east.

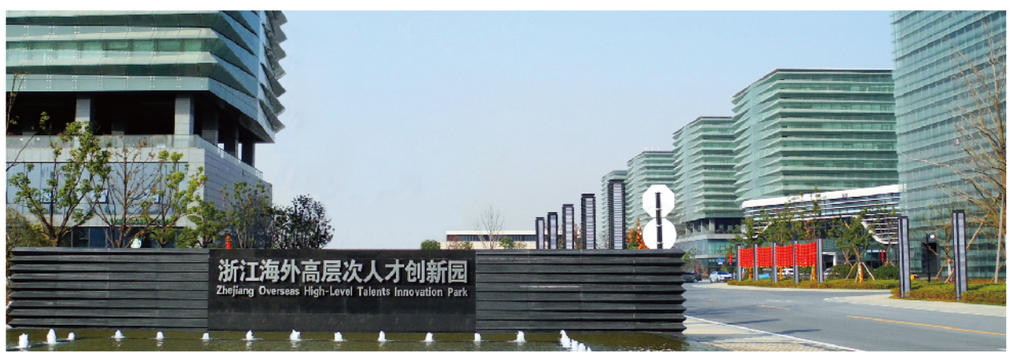
At present, the company has been cooperating with world first-class enterprises, institutes and universities, such as ArcelorMittal, MEER, Chunghung Steel, Baosteel, TPCO, Shengli Oilfield, SINOPEC, CNPC, CNOOC, Zhejiang Provincial Special Equipment Inspection and Research Institute, Research Institute of Highway (Ministry of Transport), Pennsylvania State University and TU Dortmund University.

We are dedicated to create an enduring national brand with an ideal of Created in China, Create China.

We, JINGYIers, are always pursuing a goal of becoming a well-known technology-based and ability-oriented enterprise leading the industries of intelligent manufacturing, intelligent sensing, intelligent detection and military industry in China.

We were restructured into a stock limited company in July 2014 and announced listing on NEEQ in October, stock code 831351.

With ten years of unremitting and tireless effort, we have accomplished steady growing performances. We have completed joint-stock system reorganization by now and are listed on National Equities Exchange and Quotation (NEEQ).



历史沿革
Development Course

未来 Future

全面走向智能化！
未来，我们会走得更远，真正实现百年民族品牌

All smarter in the future!
In the future, we will go further and build an enduring national brand.

2014

7 月　杭州浙大精益机电技术工程有限公司进行股份改制及更名，
成立“杭州浙达精益机电技术股份有限公司”；
11月　公司在全国中小企业股份转让系统（“新三板”）挂牌成功，
股票代码：831351

November, 2014
Jingyi announced its listing in November on National Equities Exchange and Quotations (NEEQ).
Stock code 831351.

July, 2014
Hangzhou Zhejiang University Jingyi Electromechanical Technology Engineering Co., Ltd completed shareholding reform and renamed to Hangzhou Zheda Jingyi Electromechanical Technology Corporation Limited.

2013

公司总部迁至：杭州未来科技城·海创园
实验室迁至：余杭·仓前工业园

In 2013, Jingyi headquarter was relocated in Zhejiang Overseas High-level Talents Innovation Park of Hangzhou Future Sci-tech City.
Jingyi laboratory was moved to Hangzhou Cangqian Industry Zone, Yuhang District.

2012

公司先后引进浙江钛和投资有限公司、江苏中科物联
创业投资公司等股权投资公司，进一步规范公司治理结构

In 2012, we successively brought in equity firms such as Zhejiang Ti Capital Investment Management Co. and Jiangsu CASIOT Technology Venture Capital Co., Ltd, in order to further standardize corporate governance structure.

2007~2012

公司经过数次增资，总体规模不断壮大

From 2007 to 2012, we had several capital increases and the company is expanding greatly.

2006

浙江大学精益机电技术工程公司更名为：
“杭州浙大精益机电技术工程有限公司”

In 2006, our company was renamed to Hangzhou Zhejiang University Jingyi Electromechanical Technology Engineering Limited Company.

2003

浙江大学精益机电技术工程公司改制
成立有限责任公司

In 2003, Zhejiang University Jingyi Electromechanical Technology Engineering Company was restructured to a Limited Liability Company.

1993

公司前身：
浙江大学精益机电技术工程公司成立，
为全民所有制企业

In 1993, Zhejiang University Jingyi Electromechanical Technology Engineering Company, the predecessor of the present company, was established as an enterprise owned by the whole people.

组织架构

Organization Chart

- 股东大会 — Shareholders Meeting
- 董事会 — Board of Directors
- 总经理 — General Manager
  - 监事会 — Board of Supervisors
  - 总经办 — General Manager Office
  - 副总、总助、总监 — Deputy General Manager / General Manager Assistant / Director
  - 总师办 — Chief Engineer Office
  - 高端装备事业部 — Advanced Equipment Business Division
  - 传感器事业部 — Sensors Business Division
  - 导波事业部 — Guided Wave Business Division
  - 二工组 — The Second Engineering Department
  - 研发中心 — R&D Center
  - 生产部 — Production Department
  - 财务部 — Financial Department
  - 综合管理部(含保密办) — Comprehensive Management Department (incl. Confidentiality Office)
  - 管理者代表 — 质保部 — Management Representative--Quality Assurance Department

中国创造

Created In China

Create China

企业文化
Enterprise Culture

精益的价值观：
精益求精，精于己，益于人。

精益的经营宗旨：
科技先行，以人为本，
追求卓越，诚信共赢。

精益的市场观：
提高员工素质；提高产品质量；
塑造企业形象；实施品牌战略；
打造百年民族品牌！

精益的发展观：
“中国创造，创造中国！”
“不求500强，但求500年！”

Jingyi Values:

Constantly strive for perfection. Perfect ourselves and benefit others.

Jingyi Management Principle:

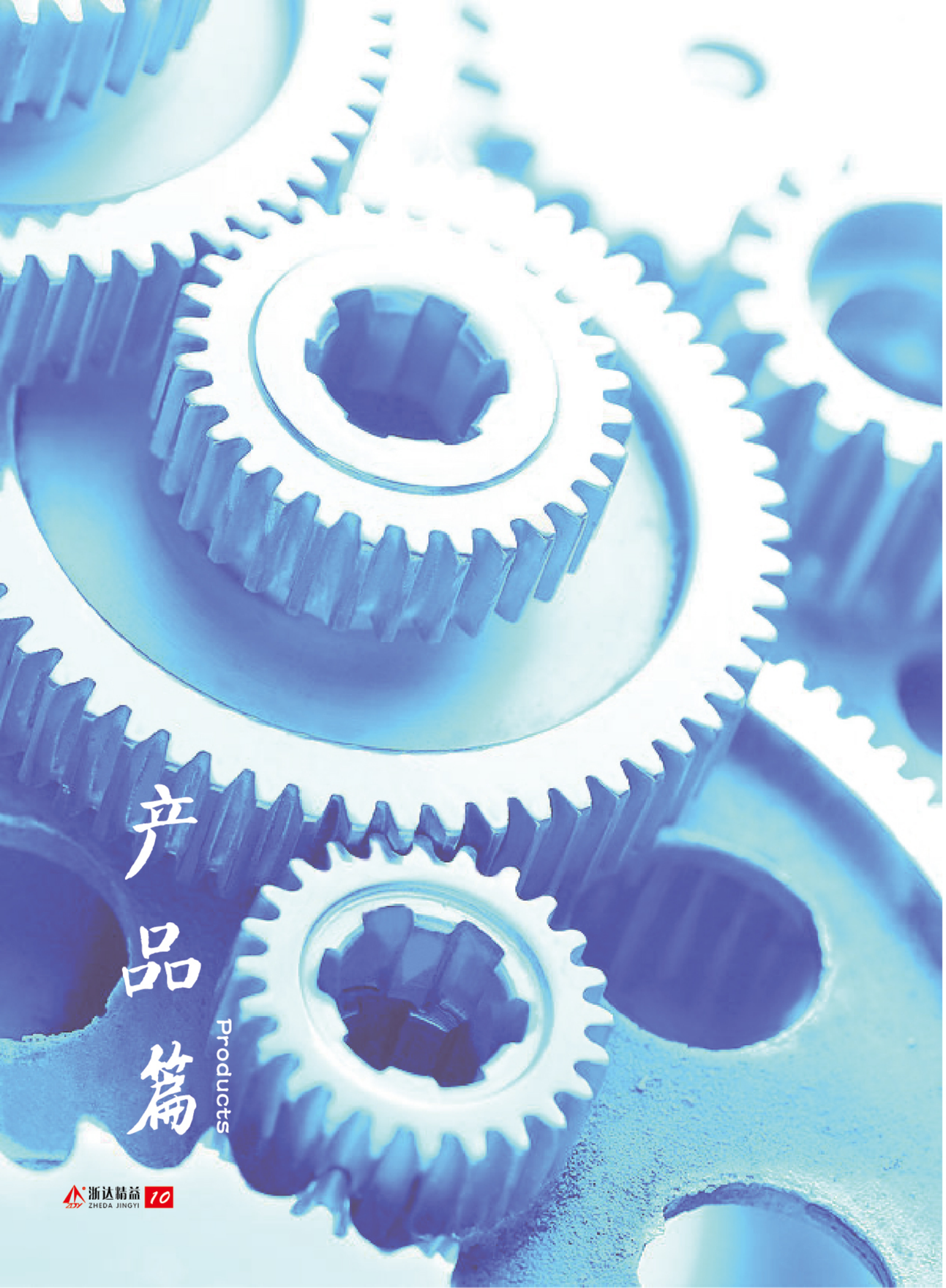
Sci-Tech motivated, people oriented;
Commitment to excellence, Integrity for Win-win.

Jingyi Market View:

Enhance staff competency; upgrade product quality;
Create enterprise image; implement brand strategy;
Build enduring national brand.

Jingyi Development View:

Created in China, Create China;
Develop to be 500 years rather than Top 500.



① 冶金自动化智能设备

Automatic Intelligent Metallurgical Equipment

钢管检测与标识生产线
Steel Pipe Measuring and Marking Production Line

钢管紫外固化涂油机
UV Coating and Curing Equipment

全自动钢管打捆机及打捆头
Automatic Steel Pipe Bundling Machine and Strapping Head

钢管自动铣头倒棱生产线
Automatic Chamfering Production Line for Steel Pipe

无缝钢管超声无损检测系统
Ultrasonic Nondestructive Testing System for Seamless Pipe

钢管数控仿形铣切锯
Numeric Control Profiling Saw for Steel Pipe

硬质合金圆盘锯
Cemented Carbide Circular Saw

电弧定心机
Electrical Discharge Machining Centering Equipment

高压水磨料射流除鳞
Abrasive Jet Descaling Line

钢管逐支跟踪及信息系统
Steel Pipe Online Recognition and Tracking System

钢管除锈机
Steel Pipe Derusting Machine

磨料浆表面处理设备
Surface Treatment Equipment with Abrasive Slurry

多功能喷标系统
Multifunctional Paint Jet Marking System

HPM热喷标系统
HPM Paint Jet Making Machine for Slab and Plate

机器人热喷号机
Robot Type Paint Jet Making Machine for Coil and Plate

热钢坯端面打号机
Hot Billet Marking Machine

热金属喷标机
Fused Metal Spray Marking Machine

转炉自动气动挡渣设备
BOF Pneumatic Slag Blocking Equipment

② 高端智能传感器系列

High-end Intelligent Sensor Series

高端TEC系列位移传感器
Advanced TEC Displacement Sensor

经济型JYCC位移传感器
Economical JYCC Displcement Sensor

③ 智能无损检测产品系列

Intelligent Nondestructive Testing Product Series

MSGW 超声导波检测仪
MSGW Ultrasonic Guided Wave Detecting Instrument

MLGW300 公路路桩超声导波检测仪
MLGW300 Ultrasonic Guided Wave Detecting Instrument for Road Pillars

④ 智能军工产品系列

Intelligent Military Industry Product Series

智能化封闭式柔性擦炮机
Intelligent Sealed Flexible Gun-barrel Cleaning Machine

新型泡沫清洁剂
Cleaning Foam

智能擦枪套装
Smart Gun Cleaning Set

钢管检测与标识生产线

研发成功：2002年8月

- 完全自主研发的高技术产品，荣获浙江省科技进步三等奖；
- 仅国内各钢管厂已经安装了230余套，并出口到美国、白俄罗斯、沙特阿拉伯等国家；
- 市场占有率达90%以上，成为国内同行业的领头羊。

钢管紫外固化涂油机

研发成功：2008年3月

- 极大地提高了生产效率，节约了占地面积；
- 响应国家的“十二五”规划和要求，节能减排，绿色环保；
- 国内首台套，国内市场占有率达100%，全球市场占有率达75%；
- 获得发明专利3项，实用新型专利4项。

全自动钢管打捆生产线

研发成功：2004年5月

- 其优良的性价比在国际市场具有很强的竞争力；
- 国内唯一生产该设备的公司；
- 获得发明专利和实用新型专利各一项。

无缝钢管超声无损检测系统

研发成功：2006年6月

- 钢管管体高速超声探伤检测系统--UTRL系列；
- 钢管管体超声探伤检测系统--UTSW系列；
- 钢管管端超声探伤检测系统--UTLR系列。
- 打破了美国GE公司对全球市场的垄断；
- 填补了国内在线高速无损探伤领域的空白；
- 获得发明专利1项，实用新型专利3项。

Steel Pipe Measuring and Marking Production Line

Successfully developed in August 2002

- A High-tech product independently and completely developed by Jingyi and awarded the third prize of Scientific and Technological Progress of Zhejiang Province.
- Widely used and accepted by clients, more than 230 sets installed in domestic steel pipe companies and dozens exported to countries like America, Belarus and Saudi Arabia.
- We maintain over 90% market share and is ranked the top supplier in domestic industry.

UV Coating and Curing Equipment

Successfully developed in March 2008

- Tremendously improve production efficiency and save floor space.
- Responding to the 12th Five-Year Plan, this equipment meets the requirement of energy conservation and emission deduction, and is friendly to environment.
- This is the first UV coating & curing equipment in China. We occupy 100% share in domestic market and 75% in global market.
- This product has obtained 3 invention patents and 4 utility model patents.

Automatic Bundling Production Line for Steel Pipe

Successfully developed in May 2004

- Very competitive in international market due to good performance-cost ratio.
- We are the only company who is capable of designing and manufacturing pipe bundling production lines in China.
- This product has obtained 1 invention patent and 1 utility model patent.

Ultrasonic Nondestructive Testing System for Seamless Pipe

Successfully developed in June 2006

- High Speed Ultrasonic Flaw Detection System for Steel Pipe Body---UTRL series
- Ultrasonic Flaw Detection System for Steel Pipe Body---UTSW series
- Ultrasonic Flaw Detection System for Steel Pipe End---UTLR series
- Break GE’ s monopoly on global market. Fill the gap of on-line high-speed NDT field in China.
- This product has obtained 1 invention patent and 3 utility model patents.

多功能喷标系统

研发成功：2005年2月

- 喷印无表面洁净要求，能适应各种恶劣的工业环境，标识质量好，喷标速度快，提高了标识的耐久性；
- 国内销售80余套，国内市场占有率达70%以上，出口到欧美、中东等国家和地区；
- 获得发明专利1项。

Multifunctional Paint Jet Marking System

Successfully developed in February 2005

- Adaptable for all kinds of severe industrial environment. Identifications are clear and durable.
- More than 80 sets have been used in domestic market and we won at least 70% market share. This product has been exported to countries and regions like Europe, America and Middle East.
- This product has obtained 1 invention patent.

钢管逐支跟踪及信息系统

研发成功：2013年8月

- 自主研发设计，加强钢管生产过程中的可追溯性；
- 一次性识别率不低于93%，实现了无缝钢管的逐支信息追溯；
- 获得实用新型专利1项。

Steel Pipe Tracking and Information System

Successfully developed in August 2013

- This is an achievement of independent research and development, used to improve traceability of steel pipe production process.
- One-time recognition rate is not lower than 93%, realizing piece-by-piece information traceback of seamless pipe.
- This product has obtained 1 utility model patent.

机器人喷号机

研发成功：2006年7月

- 代替人工在线的高温工作，大大提高生产效率；
- 使用水基热喷标特制阻燃高温专用涂料；
- 获得实用新型专利1项。

Robot Type Paint Jet Marking Machine

Successfully developed in July 2006

- Substitute for manual working in high-temperature environment, and greatly enhance production efficiency.
- Utilize water-based flame-retardant paint special for hot environment.
- This product has obtained 1 utility model patent.

坯料识别跟踪系统

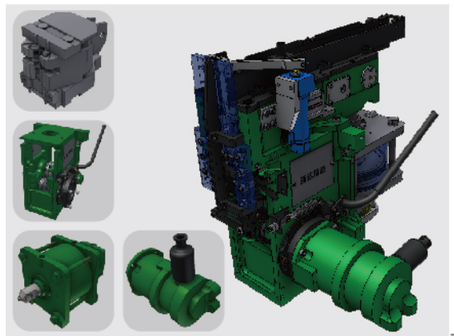
研发成功：2006年12月

- 加强坯料生产过程中的可追溯性；
- 字符识别率大于99%；
- 实用新型专利1项。

Billet Identification and tracking System

Successfully developed in December 2006

- Improve traceability of billet production process.
- Character recognition rate is higher than 99%.
- This product has obtained 1 utility model patent.



全自动打捆机及打捆头

研发成功：2005年2月

- 其优良的性价比在国际市场具有很强的竞争力；
- 国内唯一生产该设备的公司；
- 获得发明专利2项，实用新型专利1项。

钢板超声探伤系统

研发成功：2012年1月

- 可检测钢板横伤、纵伤、斜伤等缺陷，并实现了钢板测厚；
- 国内唯一生产该设备的公司；
- 获得实用新型专利1项。

HPM钢板喷印机

研发成功：2009年1月

- 世界上首次实现了1100℃热钢坯喷标，克服了国外同类产品普遍存在的缺陷；
- 在国内多家大型炼钢企业得到良好运用；
- 获得实用新型专利1项。

便携式喷印机

研发成功：2013年12月

- 采用4×16点阵的喷嘴，自带供气单元，具备自清洗功能，能满足板材用户对于离线喷印的需求，该产品良好的稳定性和可靠性得到了用户的一致好评；
- 获得实用新型专利1项。

Automatic Bundling Machine and Strapping Head

Successfully developed in February 2005

- This product has been very competitive in the international market for its outstanding cost performance.
- We are the one and only company in China that is capable of manufacturing such equipment.
- This product has obtained 2 invention patents and 1 utility model patent.

Ultrasonic Flaw Detection System for Steel Plate

Successfully developed in January 2012

- This system is able to detect cross injury, longitudinal injury and oblique injury and to measure thickness of steel plate.
- We are the one and only company in China that is capable of manufacturing such equipment.
- This product has obtained 1 utility model patent.

HPM Paint Jet Making Machine for Slab and Plate

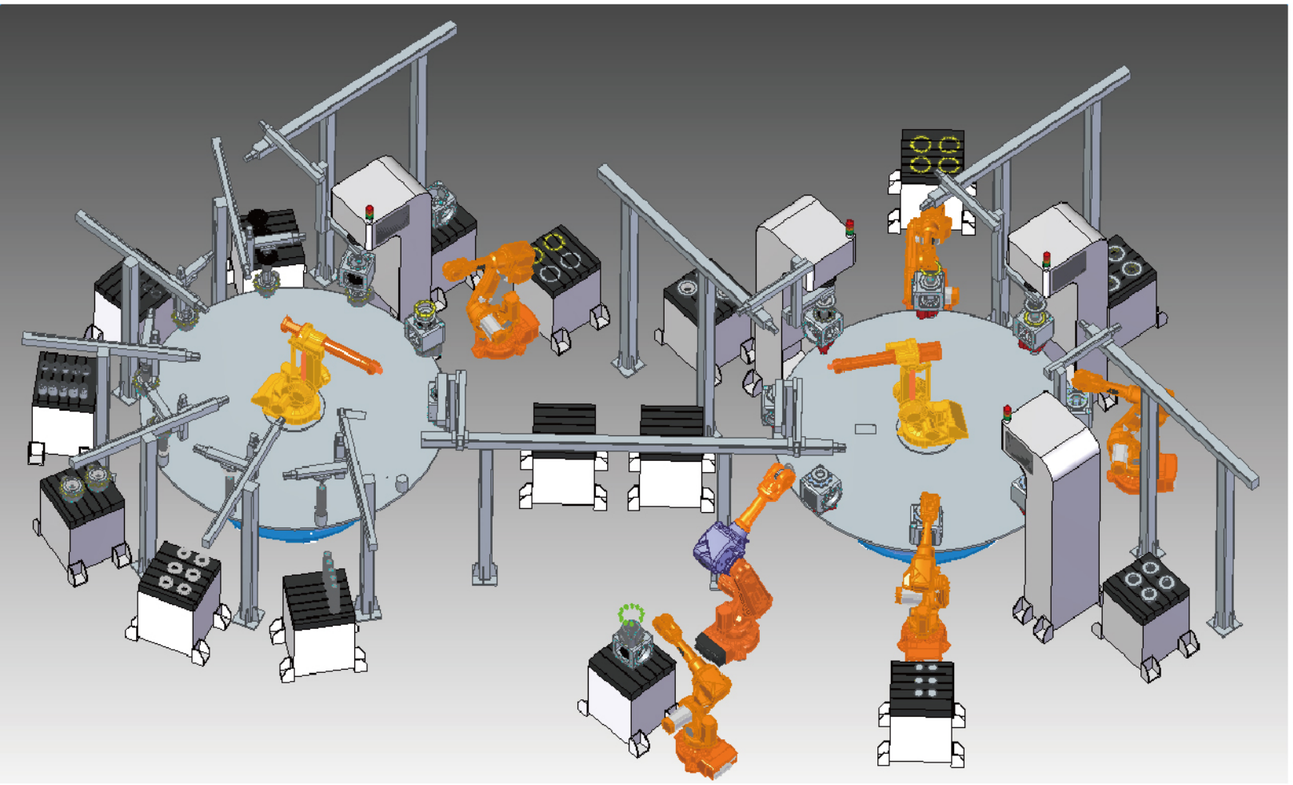
Successfully developed in January 2009

- For the first time in the world we realize paint identification on hot billet of 1100℃ and overcome common defects of other similar equipments.
- It is widely used and approved by large steel works in China.
- This product has obtained 1 utility model patent.

Portable Pain Jet Marking Machine

Successfully developed in December 2013

- With 4×16 dot matrix nozzles, embedded air supply unit and self-cleaning function, this marking machine meets the requirement of off-line painting. It has won favorable reception from users for its stability and reliability.
- This product has obtained 1 utility model patent.



智能制造

Intelligent Manufacturing

- 智能物联

  人、机、料都通过物联技术实现感知和控制；

- 智能装备

  在工业机器人的基础上，利用工业视觉、激光等传感技术，实现真正的“机器人”；

- 产线柔性化

  自主研发智能制造的核心技术，并根据不同应用场景进行组合；

- 产线的先进性

  以提升效率为目标，实现真正的“无人化工厂”；

- 提供系统性方案

  为客户提供智能制造的系统性解决方案，既有硬件的先进性，更有背后的“机器大脑”--软件的支持。

- **Smart Internet of Things (IoT)**

  To perceive and control human, machine and thing through IoT technologies;

- **Intelligent Equipment**

  To realize a true “intelligentized robot” based on industrial robot technology and utilizing sensing technologies such as industrial vision and laser;

- **Flexibility of Production Lines**

  To carry out independent research and development on core technologies of intelligent manufacturing, and combine them in accordance with different application scenarios;

- **Advancement of Production Lines**

  To achieve real “Unmaned Factory” so as to lift efficiency;

- **Provision of Systematic Solution**

  To provide customers with systematic solutions, not only with advanced hardware, but also with software support—the so-called” robotic brain” .

磁致伸缩位移传感器
Magnetostrictive Displacement Sensor

用于精密测量液压缸及运动机构的直线位移变化。

Used for precise measuring of the linear displacement variation of hydraulic cylinder and moving mechanism.

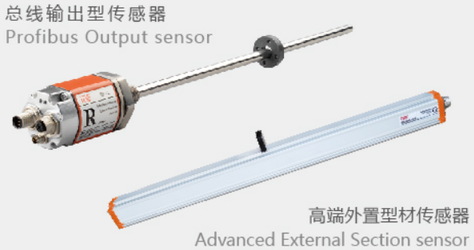
高端外置式传感器
Advanced External sensor

内置式传感器
Built-in sensor

结构紧凑型传感器
Compact Structure sensor

经济型外置传感器
Economical External sensor

总线输出型传感器
Profibus Output sensor



高端外置型材传感器
Advanced External Section sensor

防爆型传感器
Explosion-proof sensor

防水型传感器
Waterproof sensor

技术特点 | Technical Features

坚固耐用，适应恶劣工业环境；	Sturdy and durable, adapt to severe industrial environment;
易于诊断，LED实时状态监测；	Easy to diagnosis, LED real-time status monitoring;
非接触式测量，绝对位置输出；	Non-contact measuring, the absolute position output;
支持PC或手持编程工具；	Support PC or hand-held programming tool;
使用方便，多种输出模式；	Easy to use, a variety of output modes;
稳定可靠，安装灵活；	Steady and reliable, flexible installation;
模块设计，易于更换；	Modularized design, easy to replace;
支持多磁环位置同步测量。	Support synchronous measuring for multiple magnetic-rings.

用于轧机、连铸、板材等产品生产线。

Used in rolling mill, casting line, plate production line, and so on.

用于轮胎制造过程中的位移测量。

Used for displacement measuring of tire production.

用于石油贮备罐、油气界面、油水界面的测量。

Used for measuring of oil storage tank, gas-oil level and gas-water level.

用于汽车大梁制作的精密定位。

Used for precise positioning in automobile beam production.

用于水利启闭机的开启及位移的测量。

Used for measuring the opening and displacement of hoist.

用于港口起吊设备中的精密位移测量。

Used for precise displacement measuring of harbor cranes.

MSGW 超声导波检测仪

MSGW Ultrasonic Guided Wave Detecting Instrument

仪器简介 | Product Overview

MSGW超声导波检测仪（后简称MSGW），是浙达精益基于磁致伸缩原理自主研发的一套通用超声导波检测系统，通过配置专用的管道探头，实现管道缺陷快速扫查定位。MSGW可应用于石油石化工业输油输气管道网络、电力能源工业管道网络、桥梁悬挂管道、高温管线及伴热管线等。在长距离检测、在线监测、架空及埋地管线检测等应用中，MSGW较其他常规无损检测（超声检测、涡流检测、磁粉检测、射线检测、渗透检测等），拥有明显的技术优势。

MSGW Ultrasonic Guided Wave Detecting Instrument (MSGW), an independent research & development achievement by ZDJY, is a universal ultrasonic guided wave detecting platform based on magnetostrictive principle. It can rapidly scan and locate the pipeline defects by using a dedicated probe. MSGW can apply to oil and gas transportation pipe network for petroleum and petrochemical industry, the electricity energy industry pipeline network, bridge hanging pipelines, high-temperature pipelines and heating pipes. In the application of long-distance inspection, monitoring, aerial or buried pipeline inspection, MSGW has overwhelming advantages over other conventional non-destructive testing methods (e.g. ultrasonic testing, eddy current testing, magnetic particle testing, radiographic testing and penetrant testing).

应用范围 | Range of applications

热交换器

SHM在线监测

长输油气管道网络

高温管线及伴热管线

炼化工艺管网在线检测

海洋钻井平台立管、工艺管道

供暖、锅炉管、供气管道系统

Heat exchanger

SHM (Structural Health Monitoring)

Long-distance oil and gas pipeline network

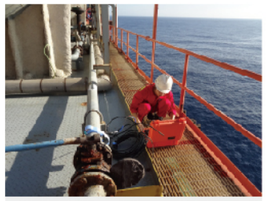
High temperature and heat-tracing pipeline

Refining pipeline network Structural Health Monitoring

Stand pipe and process pipeline of offshore drilling platform

Heat-supply, boiler, gas-supply pipeline network

应用案例 | Application Cases



中海油某海上钻井平台管线检测

Inspection of pipeline in a CNOOC offshore drilling rig

某炼化厂平台管道检测

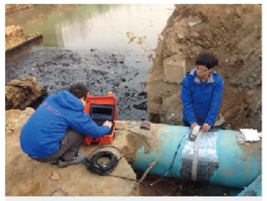
Inspection of pipeline in a refinery platform

某冷库液氨低温管道检测

Inspection of LN low temperature pipeline in a refrigeratory

某热力集团地下高温管道检测

Inspection of buried pipeline in a heating company



青岛爆炸点周边管线检测

Pipeline safety inspection near Qingdao explosion site

青岛爆炸点周边管线检测

Pipeline safety inspection near Qingdao explosion site

某油库站场内管线检测

Inspection of pipeline in an oil depot

湖北省某高速公路的路桩检测

Road Pillar Detection in Hubei Express Way

媒体报道 | Media Report

CCTV新闻报道

CCTV News Report

浙江卫视新闻报道

Zhejiang TV Report

浙江科技报头版头条

Headline of Zhejiang Science and Technology News

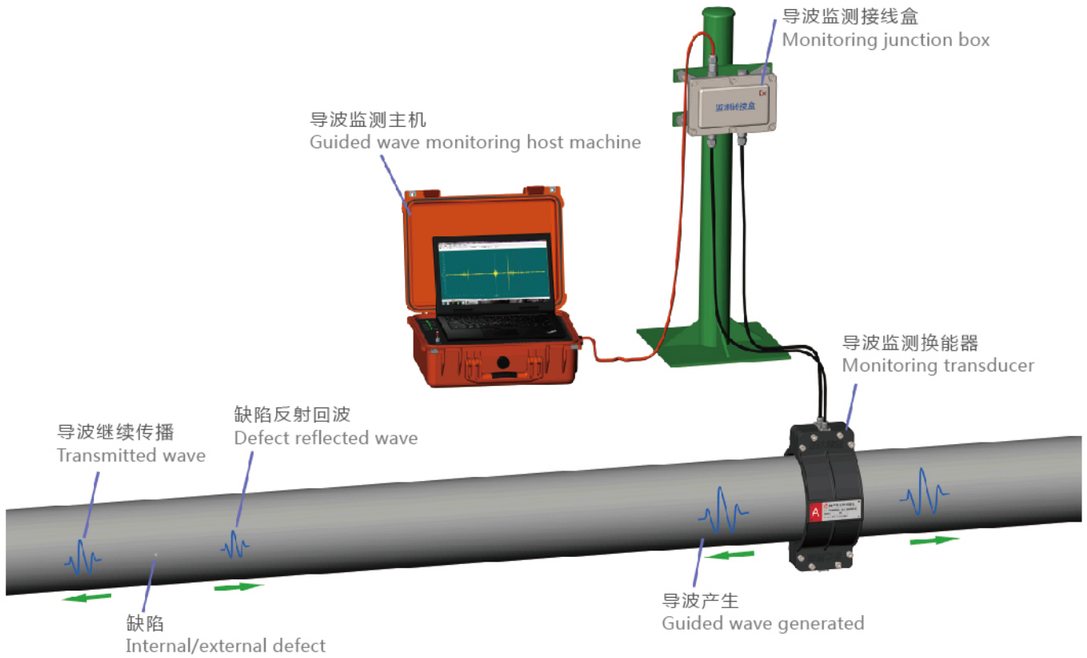
UGPM超声导波在线监测系统

Ultrasonic Guided-wave Permanent Monitoring system (UGPM)

仪器简介 | Product Overview

UGPM超声导波在线监测系统是用导波对管道的健康状态进行永久性监测。其监测方法是通过固定安装在管道上的监测换能器对管道的状态进行定期数据采集，通过对采集的批量数据进行差值分析和趋势分析，实现管道结构腐蚀及裂纹缺陷的安全评估。其中前期采集的稳定数据将会被设置为参考数据，而后期每次采集到的数据都会与参考数据进行差值比较。

Ultrasonic Guided-wave Permanent Monitoring system (UGPM) is used to monitor the pipe’ s health status in a permanent way by ultrasonic guided-wave. A monitoring transducer is fixed on the pipe permanently and designed to collect data of the pipe’ s status on a regular basis. Then the system will assess the safety of pipeline structure corrosion and crack defect through differential analysis and trend analysis of the mass data acquired. The stable data acquired in the early period will be set as reference data, with which the data collected afterwards will be compared.

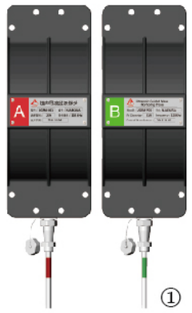


监测换能器 | Monitoring Transducer

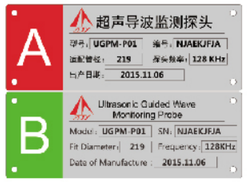
① A/B换能器分离式设计 | A/B separate-type transducers

外壳采用高分子复合材料加工而成，强度高、质量轻；AB换能器设计，便于安装，防止两半换能器混插，便于获得一致监测信号。

The housing is made of polymer composites for high strength and lightweight property. A/B separate-type transducers are easy for installation and marked in two different colors to prevent mixed insertion, so as to acquire consistent monitoring signal.



①

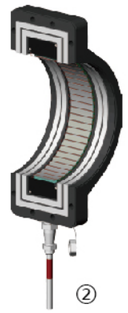


③

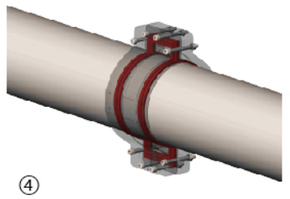
② 换能器一体化设计 | Function integrated transducers

A/B换能器分别整合了激励线圈、带材、带材励磁线圈为一个整体，实现了换能器一体化，提高了现场安装施工效率。

A/B transducer respectively embeds exciting coil, magnetostrictive strip and strip outer exciting coil, functions integrated to improve the efficiency of site operation.



②



④

③ 换能器永久标识 | Transducer permanent identification

换能器标识分为两部分，一是A/B换能器的标识，二是换能器自身的标识，每个换能器都分配到一个编号，而且编号固定唯一永久不变。换能器标牌由铝合金制成并采用激光雕刻,确保标识不丢失。

The nameplate of transducer is made of aluminum alloy and the contents are carved by laser carving machine to prevent content loss. Nameplate contents are composed of two parts, one of which is A/B mark and the other is transducer’ s unique and permanent identification serial number.

④ 监测换能器防护等级IP67 | Transducer IP Code:IP67

IP67换能器主要用于架空管道监测。换能器采用内外双密封圈和耐候性密封胶进行三重密封，同时使用了IP67的航空插座，以保证整个换能器的密封性，目标要求换能器防护等级达到IP67。当换能器不采集数据时，航空插座盖帽足以保证系统密封性。

IP67 transducer is mainly used to monitor overhead pipelines. The protection level IP67 is ensured by triple-seals, including internal and external double seals and weather resistance sealant, and IP67 aviation socket. The socket shall be covered with its cap to maintain system sealing while the transducer is not in the working condition.

应用范围 | Range of applications

储运站场重点管线	The key pipeline of LGP storage and transportation station yard
炼化装置重点管线	The key pipeline of refinery devices
埋地管道入地弯头	The first elbow of buried pipeline

资质形象

Qualifications & Honors

科技兴检奖三等奖

Third Prize of Inspection Techniques Development

质量管理体系认证证书

Quality Management System Certificate

浙江省科学技术三等奖

Third Prize of Scientific and Technological Progress of Zhejiang Province

军队科技进步三等奖

Third Prize of Military Science and Technology Progress Year 2013

国家高新技术企业

National high-tech enterprise

省级高新技术企业研发中心

Provincial high-tech R & D Center

2012年杭州市十佳高新技术企业

The Best Ten High-TECH Enterprises of Hangzhou City (2012)

通用装备维修器材设备承制单位

Manufacturing unit of General Equipment & Maintenance Equipment

2008年国家火炬计划项目

National Torch Plan Project Year 2008

2011年国家火炬计划项目

National Torch Plan Project Year 2011

中国技术市场协会金桥奖

China Technology Market Association Golden Bridge Award Year 2009

中国技术市场协会金桥奖

China Technology Market Association Golden Bridge Award Year 2011

军队科技进步三等奖

Third Prize of Military Science and Technology Progress Year 2010

军队科技进步三等奖

Third Prize of Military Science and Technology Progress Year 2011

知识产权

Intellectual Property

发明专利 Invention patent

公司现已取得发明专利39项
39 invention patents in total

软件著作权 Software copyright

公司现已取得软件著作权10项
10 software copyrights in total

实用新型专利 Utility model patent

公司现已取得实用新型专利36项
36 utility model patents in total

数据截止于2017年04月
All data collected by April 2017

主要客户

Main Customers

铁科院 CARS
VALIN 华菱集团
包钢集团 BAOGANG GROUP
常宝钢管 ChangBao Steel Tube
中国兵装集团
BAOSTEEL 宝钢
CHINA 攀钢集团 PANGANG GROUP
CSEI 中国特种设备检测研究院
鞍山钢铁集团 ANSHAN IRON AND STEEL GROUP
天津钢管集团 TIANJIN PIPE (GROUP)
南京钢铁 NANJING IRONE STEEL NISCO
中国石油宝鸡石油钢管 CNPC BAOJI PETROLEUM STEEL PIPE
首钢集团
XIN YE GANG 湖北新冶钢 HUBEI XINYEGANG STEEL
武钢集团
HBIS 河北钢铁集团
莱钢集团 LAIGANGGROUP
赛瑞机器 SERI MACHINERY
TISCO 太原钢铁(集团)有限公司
重庆钢铁
MA STEEL 马钢集团
ArcelorMittal
安徽天大
天铁 TIAN TIE
山东钢铁 SHAN STEEL
中鴻鋼鐵 CHUNGHUNG STEEL
SMS MEER SMS group
建龙集团 JIANLONG GROUP
唐钢集团 TANG STEEL GROUP

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实时响应

24小时紧急服务，随时接受用户咨询，及时提供周到服务。

跟踪服务

根据用户需要，随时提供现场技术安装指导。

用户档案

专职合同管理，为每位客户建立用户档案，及时向用户通报合同执行情况，并定期征询用户意见，以便随时提供服务。

全国统一客服电话：

400-809-1101

技术共享

与用户进行技术交流，使用户全面了解产品的技术指标、性能特点、使用方法及施工要求。使其能够掌握操作方法，并能及时处理现场工作中所遇到的问题。

客户巡访

及时了解客户对产品质量的反馈及需求信息，不断完善，满足用户的需求。

产品保修

保修期内，根据客户的需求提供完善的保修服务；保修期外，提供终身维修服务，保证客户无后顾之忧。

服务体系

Customer Service

应用范围 | Range of applications

All-round Customer Service

Customer Service Hotline:

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Real-time Response

24-hour open to emergencies and customer consultation.

Follow-up Service

Provide technical guidance according to customer requirements.

Customer Profile

Sole-duty contract management. Create customer profiles, report contract execution progress and consult customer suggestions regularly.

Technology Access

Hold technical exchange meetings with customer and help customer fully understand technical specifications, product performance, features, usage and construction requirements. Provide technical training to ensure customer grasp know-how and able to handle all kinds of incidents in site.

Visit Customer

Visit customers regularly and acquire customer feedbacks on product qualities and demands. Constantly improve to meet customer needs.

Product Warranty

Provide warranty services within product guarantee period and after-sale services lifelong.