重庆川仪自动化股份有限公司

CHONGQING CHUANYI AUTOMATIONCO.,LTD



川仪在用户身边

用户在川仪心中

重庆川仪自动化股份有限公司流量仪表分公司

CHONGQING CHUANYI AUTOMATION CO., LTD. FLOWMETER BRANCH



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国际品质标准 · 流量仪表专家

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quality standard
Flow meter expert

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融智前行 精筑美好·流量仪表

Move forward with intelligence build beautiful world with precise Flowmeter



COMPANY

PROFILE 企业简介

◆ 重庆川仪流量仪表分公司隶属于中国四联仪器仪表集团·重庆川仪自动化股份有限公司，是重庆国资委下属重点大型国有企业（上海A股代码：603100），是专业从事流量仪表及流量测量整体方案的集技术研发、制造、销售、服务一体的综合性企业。承担国家级核电重大专项、国家级重点研发计划，为多家国际公司提供流量仪表产品的研发、制造服务。

◆ 公司已通过“自动化仪器仪表智能产品研发能力、自动化仪器仪表精益制造能力”两个新型能力的体系贯标认定，成为全国首批贯标、达标企业之一。公司主要产品有电磁流量计、永磁流量计、涡街流量计、质量流量计、差压流量计、金属管浮子流量计、磁浮子液位计、液位开关等。产品广泛应用于冶金、石油、化工、轻工、电力、环保、核电、市政等行业，并远销亚洲、欧美等国家和地区。

ABOUT US

Chongqing Chuanyi Flow Meter Branch is affiliated to China Silian Instrument Group Co., Ltd.. Chongqing Chuanyi Automation Co., Ltd. It is a key large state-owned enterprise (Shanghai A-share code:603100) under the State-owned Assets Supervision and Administration Commission of Chongqing. It is a comprehensive enterprise specializing in technology R & D, manufacturing, sales and service of the overall flow meter and flow measurement scheme.

It undertakes major national nuclear power projects and national key research and development programs, and provides research, development and manufacturing services of flow meter products for many international companies. The company has passed the two new capabilities of "automation instrument intelligent product research and development ability, automation instrument lean manufacturing ability" system certification, became one of the first batch of enterprise that implements the standard and reaches the standard.

The Company's main products include electro-magnetic flowmeter, permanent magnet flowmeter, vortex flowmeter, mass flowmeter, differential pres-sure flowmeter, metal pipe float flowmeter, magnetic float level gauge, liquid level switch, etc. Products are widely used in metallurgy, petroleum, chemical, light industry, electric power, environmental protec-tion, nuclear power, water supply and Municipal construction and other industries, and exported to Asia, Europe the United States and other coun-tries and regions.



技术研发

TECHNOLOGY RESEARCH AND DEVELOPMENT



生产制造

PRODUCTION AND MANUFACTURING



市场营销

MARKETING

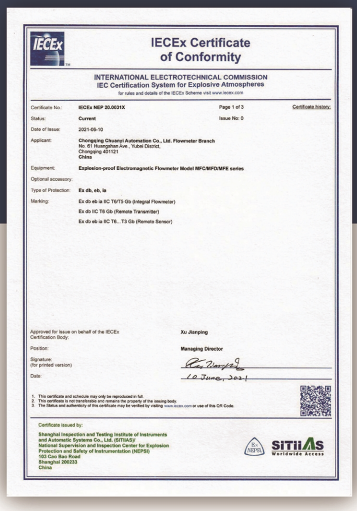


技术服务

TECHNOLOGY SERVICE

IEC防爆证书

IEC Explosion-proof Certificate



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

Certificate No.: IECEx NEP 20.0031X
Status: Current
Date of Issue: 2021-09-10
Applicant: Chongqing Chuanyi Automation Co., Ltd. Flowmeter Branch
No. 61 Huangshan Ave., Yubei District,
Chongqing 401121
China
Equipment: Explosion-proof Electromagnetic Flowmeter Model MFC/MFD/MFE series
Optional accessory:
Type of Protection: Ex db, eb, ia
Marking: Ex db eb ia IIC T6/T3 Gb (Integral Flowmeter)
Ex db IIC T6 Gb (Remote Transmitter)
Ex db eb ia IIC T6... T3 Gb (Remote Sensor)

Approved for issue on behalf of the IECEx Certification Body:
Xu Jianping
Position: Managing Director
Signature: (for printed version)
Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:
Shanghai Inspection and Testing Institute of Instruments and Automatic Systems Co., Ltd. (SITIAS)/
National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI)
No.1 Gui Ping Road
Shanghai 200233
China

SITIAS

Page 1 of 3
Issue No: 0
Certificate history:

特种设备生产许可证（TS）

Production License of Special Equipment (TS)



中华人民共和国
特种设备生产许可证
Production License of Special Equipment
People's Republic of China
（压力管道）

编号：TS2750078-2023

单位名称：重庆川仪自动化股份有限公司流量仪表分公司
住　　所：重庆市北部新区黄山大道中段 61 号
制造地址：
重庆市北部新区黄山大道中段 61 号

经审查，获准从事以下特种设备生产活动：

许可项目	许可子项目	许可参数	备　注
压力管道元件制造	元件组合装置		流量计（夹体）

审批机关：重庆市工商行政管理局
有效期至：2023 年 8 月 21 日
发证机关：
发证日期：2018 年 8 月 21 日

CSA证书

CSA certificate



CSA Group

Certificate of Compliance

Certificate: 70053808 Master Contract: 265686
Project: 70092674 Date Issued: 2016-10-13
Issued to: Chongqing Chuanyi Autotion Co., Ltd. Flowmeter Branch
No.61,Middle section,Huangshan Avenue,New North Zone, Chong Qing 401121
CHINA
Attention: Lan Xie

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

C SP US

Issued by: Jerry Ning
Jerry Ning

PRODUCTS

CLASS - C363106 - ELECTRICAL MEASUREMENT AND TEST EQUIPMENT
CLASS - C363186 - ELECTRICAL EQUIPMENT FOR MEASUREMENT USE-Certified to US Standards

Magnetic Flowmeter, Models MFC, MFE-S and MFD series, permanently connected, rated 100-240 V ac, 50/60 Hz, 17 W; Or ±24Vdc, 3A.

Notes:
1. The above AC mains power models are permanently connected, Equipment Class I, Pollution Degree 2, and Installation Category II.
2. The above DC power models are certified as components for use with other certified electrical measurement and test equipment, where suitability is to be determined by CSA.
3. The above DC power models are powered by external secondary circuit, which is isolated from Mains circuits by double or reinforced insulation.
4. Mode of operation: Continuous
5. Environmental Conditions: -25 to 60 °C ambient temperature, 2000 m max altitude, 5% to 90% RH, 86-106 kPa air pressure.
6. The subject product is not evaluated for use in hazardous location.

DOD 107 Rev. 2016-03-18 Page 1

CE认证

certificate



Certificate – Сертификат – 證明書 – Certificat – 인증서 – 認證書

Norm QAL_10-1405, version 00, effective since March 25th, 2020

Certificate of Compliance

No. 38200427.CCAQU02

Certificate's Holder: Chongqing Chuanyi Automation Co., Ltd. Flowmeter Branch
No. 61, Middle Section, Huangshan Ave., Yubei District, Chongqing, China

Certification ECM Mark:

Product: Model(s): Electromagnetic Flowmeter
MF series (MFC, MFE, MFD, MFL, MFP, MFB, MFS)

Verification to: Standard:
EN 61326-1:2013, EN 61010-1:2010
related to CE Directive(s):
2014/35/EU (Low Voltage)
2014/30/EU (Electromagnetic Compatibility)

Remark: This document has been issued on a voluntary basis and upon request of the manufacturer. It is our opinion that the technical documentation received from the manufacturer is satisfactory for the requirements of the ECM Certification Mark. The conformity mark above can be affixed on the product/s accordingly to the ECM-regulation about its release and issues.

Additional information and clarification about the Marking:
The manufacturer is responsible for the CE Marking process, and if necessary, must refer to a Notified Body. This document has been issued on the basis of the regulation on ECM Voluntary mark for the certification of products. RGEI_ECM rev.3 available (cf. www.entecerma.it)

Issuance date: 27 April 2020
Expiry date: 24 April 2025

Reviewer: Technical expert Amanda Pavone
Approver: ECM Service Director Luca Sacconi

Ente Certificazione Macchine Srl
Via Ca' Bella, 243 – Loc. Castello di Serravalle – 40033 Valsamoggia (BO) - ITALY
☎ +39 051 6708141 🖷 +39 051 6708156 ✉ info@entecerma.it 🌐 www.entecerma.it

SIL认证

SIL certificate



Certificate – Сертификат – 證明書 – Certificat – 인증서 – 認證書

SIL

Functional Safety Certificate

No. 1N191223.CCAWD73
Technical Construction File no. SIL-WSOH7893

Certificate's Holder: Chongqing Chuanyi Automation Co., Ltd. Flowmeter Branch
No. 61, Huangshan Ave., New North Zone, Chongqing, China

Product: Model(s): Electromagnetic Flowmeter
ME Series

Standard:
Has been assessed over the relevant requirements of:
IEC 61508:2010 Parts 1-7
And meets requirements providing a level of integrity to:
Systematic Capability: SC 3 (SIL 3 Capable)
Safety Integrity Level: SIL 3
Hardware Fault Tolerance: HFT 0 (1oo1) / HFT 1 (1oo2)
Proven in Use and Route 2H Constraints must be verified each application.

Safety Function:
Electromagnetic flowmeter based on the principle of electromagnetic induction, measuring the flow of conductive fluid according to the electromotive force induced by the conductive fluid through an external magnetic field.
* Is suitable to be safety function according to the description and the configuration defined in Annex 1

Verification Mark:
The Verification Mark can be affixed on the product. It is NOT permitted to alter the Verification Mark in any way

Remark: This SIL Verification of Compliance has been issued on a voluntary basis. ECM confirms that a Test Report is existent for the above listed product(s) and found to meet the requirements of above standards for application in safety related system up to Safety Level of SIL 3.
The unit must be properly designed into a Safety Instrument System as per the requirements in the Safety Manual. The SIL Verification of Compliance is only valid for the product. It is NOT permitted to alter the Verification Mark in any way. In addition the Verification's Holder is NOT allowed to transfer the Verification to third parties. This certificate can be checked for validity at www.entecerma.it

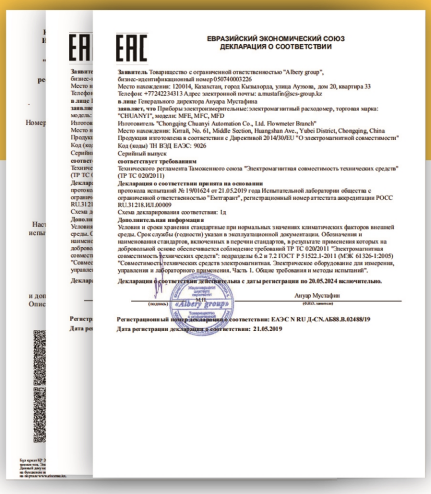
Date of Issue 26 December 2019
Chief Manager: Marco Magni

Expiry Date 25 December 2024
Deputy Manager: Amanda Pavone

Ente Certificazione Macchine
Via Ca' Bella, 243 - 40033 Valsamoggia Loc. Castello di Serravalle (Bo) Italy
☎ +39.0516708141 🖷 +39.0516705156 ✉ info@entecerma.it 🌐 www.entecerma.it

CU-TR认证

certificate



EAC

ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ
ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ

Заявитель Товарищество с ограниченной ответственностью "Albery group",
бизнес-идентификационный номер 050740003226
Место нахождение: 120014, Казахстан, город Кызылорда, улица Ауэзова, дом 20, квартира 33
Телефон +77242234313 Адрес электронной почты: a.mustafin@acs-group.kz
в лице Генерального директора Акуара Мустафина
заявляет, что Приборы электроизмерительные: электромагнитный расходомер, торговая марка: "CHUANYI", модели: MFE, MFC, MFD
Изготовитель "Chongqing Chuanyi Automation Co., Ltd. Flowmeter Branch"
Место нахождение: Kuiyuli, No. 61, Middle Section, Huangshan Ave., Yubei District, Chongqing, China
Продукция изготовлена в соответствии с Директивой 2014/30/EU "О электромагнитной совместимости"
Код (коды) ТН ВЭД ЕАЭС: 9026
Серийный выпуск
соответствует требованиям
Технического регламента Таможенного союза "Электромагнитная совместимость технических средств" (ТР ТС 020/2011)
Декларация о соответствии принята на основании
протокола испытаний № 1/9016624 от 21.05.2019 года Испытательной лаборатории общества с ограниченной ответственностью "Евтерра", регистрационный номер аттестата аккредитации РОСС RU.31218.ИЛ.00909
Схема декларирования соответствия: 1д
Дополнительная информация
Условия и сроки хранения стандартные при нормальных значениях климатических факторов внешней среды. Срок службы (годности) указан в эксплуатационной документации. Обозначения и наименования стандартов, включенных в перечни стандартов, в результате применения которых на добровольной основе обеспечивается соблюдение требований ТР ТС 020/2011 "Электромагнитная совместимость технических средств": подразделы 6.2 и 7.2 ГОСТ Р 51522.1-2011 (МЭК 61326-1:2005) "Совместимость технических средств электромагнитная. Электрическое оборудование для измерения, управления и лабораторного применения. Часть 1. Общие требования и методы испытаний".
Декларация действительна с даты регистрации по 20.05.2024 включительно.

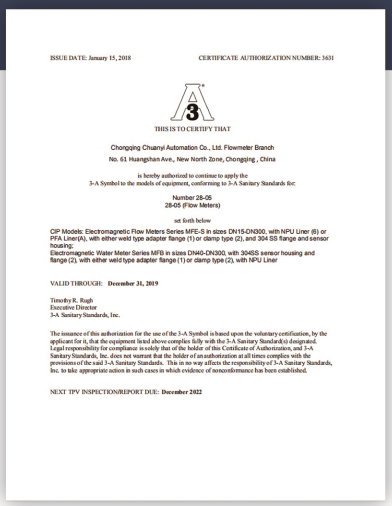
Albery group

Регистрационный номер декларации о соответствии: EAЭС N RU Д-CN.АБ88.В.02488/19
Дата регистрации декларации о соответствии: 21.05.2019

QUALIFICATION 资质认证

3A卫生证书

3A Sanitary Certificate



ISSUE DATE: January 15, 2018 CERTIFICATE AUTHORIZATION NUMBER: 3631

THIS IS TO CERTIFY THAT

Chongqing Chuanyi Automation Co., Ltd. Flowmeter Branch
No. 61 Huangshan Ave., New North Zone, Chongqing , China

is hereby authorized to continue to apply the
3-A Symbol to the models of equipment, conforming to 3-A Sanitary Standards for:

Number 28-05
28-05 (Flow Meters)

set forth below

CIP Models: Electromagnetic Flow Meters Series MFE-S in sizes DN15-DN300, with NPU Liner (6) or PFA Liner(A), with either weld type adapter flange (1) or clamp type (2), and 304 SS flange and sensor housing.
Electromagnetic Water Meter Series MF8 in sizes DN40-DN300, with 304SS sensor housing and flange (2), with either weld type adapter flange (1) or clamp type (2), with NPU Liner

VALID THROUGH: December 31, 2019

Timothy R. Rugh
Executive Director
3-A Sanitary Standards, Inc.

The issuance of this authorization for the use of the 3-A Symbol is based upon the voluntary certification, by the applicant for it, that the equipment listed above complies fully with the 3-A Sanitary Standard(s) designated. Legal responsibility for compliance is solely that of the holder of this Certificate of Authorization, and 3-A Sanitary Standards, Inc. does not warrant that the holder of an authorization at all times complies with the provisions of the said 3-A Sanitary Standards. This in no way affects the responsibility of 3-A Sanitary Standards, Inc. to take appropriate action in such cases in which evidence of noncONformance has been established.

NEXT TPV INSPECTION/REPORT DUE: December 2022

测量管理体系认证证书

Quality Management System Certificate



测量管理体系认证（AAA）证书

MEASUREMENT MANAGEMENT SYSTEM(AAA) CERTIFICATE

证书号：ISC-2020-0667

兹 证 明

重庆川仪自动化股份有限公司流量仪表分公司

统一社会信用代码：91500097345500210

注册地址：重庆市北部新区黄山大道中段 61 号

生产经营地址：重庆市北部新区黄山大道中段 61 号

符合 GB/T 19022-2003/ISO 10012-2003《测量管理体系--测量过程和测量设备的要求》标准的全面要求，对产品质量、经营管理、环境监测、安全防护、能源管理等方面的计量保障作用。特发此证（认证范围见证书附件）。

This is to certify your measurement management system conforms to all the requirements of ISO10012:2003 " Measurement management system-Requirements for measurement process and measurement equipment".

发证日期：2020 年 03 月 24 日　　有效日期：2023 年 03 月 23 日

本证书由有性概率抽取监督的方式进行监督审核，证书的有效性与否以国认监委合格评定信息平台查询为准。

本证书的有效状态以及相关信息可在国家认证认可监督管理委员会官方网站(www.cnca.gov.cn)上查询

本证书的有效状态以及相关信息可在ISO(www.china-isc.org.cn)上查询

第一次监督 第二次监督 第三次监督 第四次监督

签 发 人：

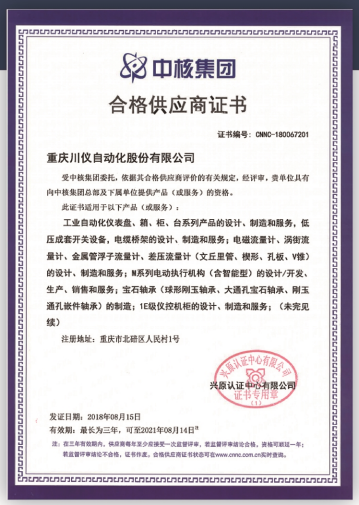
认证机构：北京国际质量认证有限公司

证书二维码

地址：北京市朝阳区北辰路 108 号 1 号楼 16 层 1601　　电话：（+86 10）8225 2376　　www.china-isc.org.cn

中核集团合格供应商证书

China National Nuclear Corporation qualified Supplier certificate



中核集团

合格供应商证书

证书编号：CNNC-180067201

重庆川仪自动化股份有限公司

受中核集团委托，依据其合格供应商评价的有关规定，经评审，贵单位具有向中核集团总部及下属单位提供产品（或服务）的资格。

此证书适用于以下产品（或服务）：

工业自动化仪表盘、箱、柜、台系列产品的设计、制造和服务；低压成套开关设备，电缆桥架的设计、制造和服务；电磁流量计、涡街流量计、金属管浮子流量计、差压流量计（文丘里管、楔形、孔板、V锥）的设计、制造和服务；M系列电动执行机构（含智能型）的设计/开发、生产、销售和服务；宝石轴承（球形刚玉轴承、大通孔宝石轴承、刚玉通孔嵌件轴承）的制造；1E级仪控机柜的设计、制造和服务；（未完见续）

注册地址：重庆市北碚区人民村1号

兴原认证中心有限公司 证书专用章

发证日期：2018年08月15日

有效期：最长为三年，可至2021年08月14日[注]

注：在三年有效期内，供应商每年至少应接受一次监督评审，若监督评审结论合格，资格可延续一年；若监督评审结论不合格，证书作废，合格供应商目录将会即时更新。

质量管理体系认证

Quality management system certificate
ISO9001/14001/45001



环境管理体系认证证书

注册号：E04Q07C31282R1...10

统一社会信用代码：91500097C3450021Q

兹 证 明

重庆川仪自动化股份有限公司流量仪表分公司

环境管理体系符合 GB/T24001-2016 idt ISO14001:2015 标准，适用于

流量仪表的设计、生产、销售及服务

注册地址：重庆市北部新区黄山大道中段61号

经营地址：重庆市北部新区黄山大道中段61号

BGC IAF CNAS MANAGEMENT SYSTEM CNAS C016-M

计量标准考核证书

Measurement standard assessment certificate



计量标准考核证书

Certificate for Examination of Measurement Standard

〔2019〕 量标 证字第 0020 号

根据《中华人民共和国计量法》，按照《计量标准考核规范》的要求，

考核合格，特发此证。

This is to certify that the measurement standard conforms with the requirements of the "Rule for the Examination of Measurement Standard" according to the Law on Metrology of the People's Republic of China.

建标单位 重庆川仪自动化股份有限公司流量仪表分公司

Possessor of the Measurement Standard

计量标准名称 静态流量技术法量标准装置 代码 12313302

Name of measurement standard Code

测量范围 DN15-DN125：流量范围（0.04-250）m^3/h

Measuring range

不确定度或准确度等级或最大允许误差 U=0.05%，k=2

Uncertainty/accuracy class/maximum permissible error

保存地点：重庆川仪自动化股份有限公司流量仪表分公司（重庆市北部新区黄山大道中段61号）

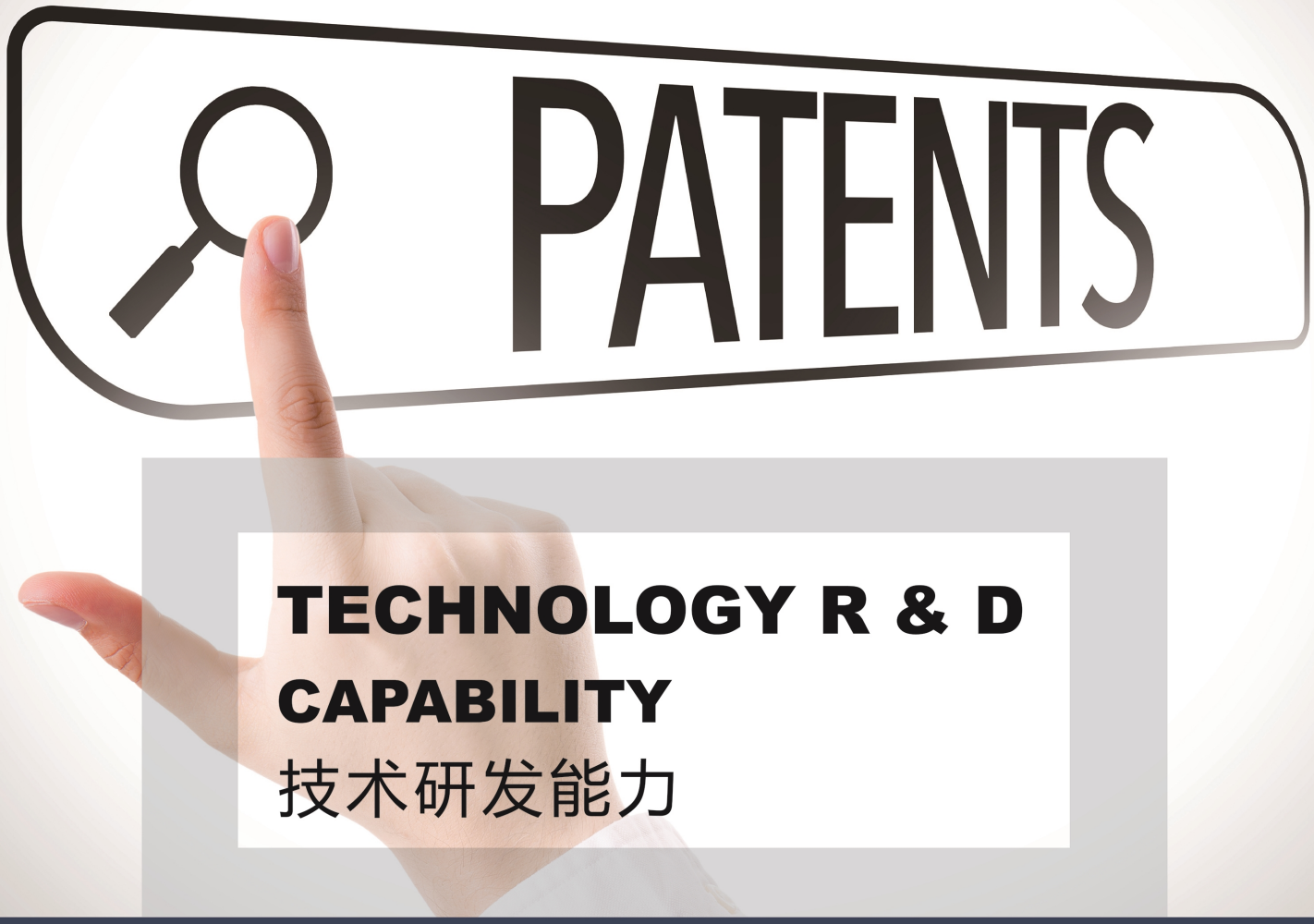
量传范围：企业内部

发证日期 2019 年 02 月 日

Date issued

有效期至 2023 年 03 月 日

Date of expiry



TECHNOLOGY R & D CAPABILITY
技术研发能力

流量产品共获得发明专利30项，实用新型专利69项，外观设计专利27项。

Flow products have obtained 30 invention patents, 69 utility model patents and 27 design patents.







QUALITY CONTROL
CAPABILITY
品质管控能力



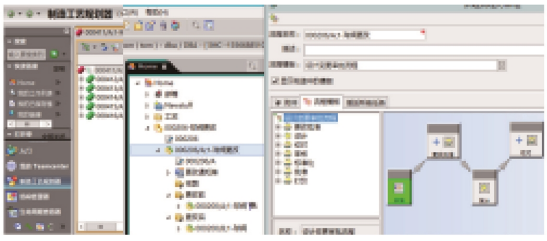
2005年与日本东芝公司达成合作协议，引进QCP质量过程管理体系

In 2005,we signed a cooperative development agreement with Toshiba,and introduced the QCP quality process management system.



（第三方）检验人员现场检验产品

(Third party) inspectors inspect products at our production workshop



数字化过程质量管理系统

Digital process quality management system



探伤检测

Non-destructive testing



材质检测

Material inspection









QUALITY CONTROL

◆ 公司拥有国内领先的自动化校准装置：

①DN15-DN400气体校准装置，准确度等级达0.3级。

②DN15-DN150高精度质量法水流量校准装置，准确度等级达0.03级。

③DN2.5-DN2400水流量校准装置准确度等级达0.06级。

被重庆市计量质量检测研究院评定为“重庆市水大流量实验室”，并取得CNAS国家实验室认证

◆ Our company has a leading automatic calibration device in China:

①DN15-DN400 gas calibration devices, with the accuracy reaches 0.3 class

②DN15-DN150 water calibration device using high accuracy weighing method, with the accuracy reaches 0.03 class

③DN2.5-DN2400 water flow calibration device, with the accuracy reaches 0.06 class

We have been rated as"Chongqing Water Flow Laboratory" by Chongqing Institute of Metrology and Quality Inspection, and obtained CNAS national laboratory certificate

INTELLIGENT MANUFACTURING CAPABILITY
智能制造能力

公司作为国家工信部制造行业两化融合全国首批试点单位，首创了国内第一条工业4.0智能制造生产线，领先同行企业。

Our company were identified as the first group of experimental units for the integration of informatization and industrialization in the manufacturing industry by the Ministry of Industry and Information Technology, and pioneered the first Industry 4.0 intelligent manufacturing production line in China, leading peer companies.





智能流量仪表生产线L01

Intelligent flow meter production line L01



智能流量仪表生产线L02

Intelligent flow meter production line L02



智能流量仪表生产线L03

Intelligent flow meter production line L03

INTELLIGENT MANUFACTURING

01 智能物料配送
Intelligent material distribution

02 智能压力测试
Intelligent pressure Testing

03 智能外壳封装
Intelligent Housing Welding





智能气密性测试
Intelligent air tightness test



自动装夹标定装置
Automatic clamping calibrationdevice



自动信号采集标定室
Automatic signal acquisition calibrationlab

INTRODUCTION TO FLOWMETERS 流量产品介绍

智能型电磁流量计系列

Intelligent electromagnetic flowmeter series

- 低噪声信号处理技术，精度等级可达0.3级
  Low noise signal processing technology, with accuracy level of 0.3
- 抗结垢设计，冗余阻抗500KΩ，可测最低电导率1.7μS/cm
  Scale-resistant design, with redundant impedance of 500KΩ and measurable minimum conductivity of 1.7μS/cm
- 浆液型设计，可适应固液两相介质测量
  Slurry type design can adapt to solid-liquid two-phase medium measurement
- 快速响应技术，可适应罐装工艺
  Fast response technology can adapt to the canning process
- 均匀磁场技术，前直管段最低可达1.6D
  Uniform magnetic field technology, minimum value of 1.6D for the front straight pipe section
- 标配自诊断系统，可实现空管、励磁及超限等报警
  Standard self - diagnosis system, can realize empty , excitation and over-limit alarm
- 中英文菜单切换操作，非接触式组态
  Chinese/English menu switching operation, non-contact configuration
- 锂电池供电方式最长可达10年
  Lithium batteries can supply power for up to 10 years



- **MFE多功能型电磁流量计**
  MFE multifunctional electromagnetic flowmeter
- **MFC通用型电磁流量计**
  MFC Universal Electromagnetic Flowmeter
- **MFD浆液型电磁流量计**
  MFD slurry electromagnetic flowmeter
- **MFJ核级电磁流量计**
  MFJ nuclear class electromagnetic flowmeter
- **MFL两线制电磁流量计**
  MFL two-wire electromagnetic flowmeter
- **MFP型插入式电磁流量计**
  MFP insertion electromagnetic flowmeter
- **MFE-X增强型电磁流量计**
  MFE-X enhanced electromagnetic flowmeter
- **MFB电池供电型流量计**
  MFB battery-powered electromagnetic flowmeter
- **MFS卫生型电磁流量计**
  MFS sanitary electromagnetic flowmeter
- **MFB-S/K电磁冷水水表**
  MFB-S/K Electromagnetic cold water meter

智能型涡街流量计系列

Intelligent Vortex flowmeter

- 精度等级最高可达液体0.75级，气体1.0级
  Accuracy class: liquid: level 0.75 (max.), gas: level 1.0 (max.)
- 抗振性能可达3 g、150HZ
  Anti-vibration performance up to 3 g, 150 Hz
- 量程比最高可达50：1
  The range ratio can be up to 50: 1
- 介质温度范围 -40° C~400° C
  Medium temperature range-40 C ~ 400 C
- 口径覆盖DN15~DN600
  The nominal diameter is from DN15~DN600mm



◆ VFD抗振型涡街流量计

VFD anti-vibration vortex flowmeter



VFE温压补偿型涡街流量计 ◆

VFE temperature and pressure compensation vortex flowmeter

智能型质量流量计系列

Intelligent mass flowmeter series



- 精度等级可达0.15级
  The accuracy can reach 0.15class
- 口径覆盖DN3~DN200
  The nominal diameter is from DN3~DN200mm
- 介质温度范围 -196° C~350° C
  The medium temperature range is -196° C~350° C
- 最高压力可达24MPa
  The maximum pressure can reach 24MPa
- DTFT信号处理技术，响应时间≤0.1s
  DTFT signal processing technology, response time ≤0.1s

智能型金属管浮子流量计

Intelligent metal tube rotameter



- 精度等级可达1.5级
  The accuracy can reach 1.5 class
- 口径覆盖DN8~DN200
  The nominal diameter is from DN8~DN200mm
- 采用多段锥管技术，线性更好
  Using multi - section cone tube technology, linear better
- 双指示系统，可同屏显示流量、累积、百分比、电流输出值等
  Double indication system, which can display flow, accumulation, percentage and current output value on the same screen
- 自带磁阻尼系统，保持指针稳定
  Equipped with magnetic damping system to keep the pointer stable
- 内置地磁干扰补偿系统，克服磁场干扰
  Built-in geomagnetic interference compensation system to overcome magnetic field interference
- 自带一键累积清零功能
  Built-in one key cumulative reset function
- 适用微小流量测量并集成吹扫装置
  Suitable for micro flow measurement and integrated purge device



涡轮流量计 Turbine flowmeter



- 精度等级可达：液体0.5级，气体1.0级
  Accuracy level: liquid: class 0.5, gas: class1.0
- 口径覆盖液体：DN4-DN200，气体：DN20-DN400
  Diameter coverage: liquid: DN4-DN200, gas: DN20-DN400
- 自带温压补偿
  Built-in temperature and pressure compensation
- 独立机芯设计，互换性强
  Independent movement design, strong interchangeability
- 适应低流速，高粘度介质测量
  Suitable for low flow rate and high viscosity medium measurement
- 锂电池、24Vdc供电
  Lithium battery, 24Vdc power supply

旋进旋涡流量计 vortex precession flowmeter



- 精度等级可达1.0级
  Accuracy class : class 1.0
- 口径覆盖DN20~DN400
  The nominal diameter is from DN20~DN400mm
- 自带温压补偿
  Built-in temperature and pressure compensation
- 适应低流速介质
  Adapt to low flow medium
- 最低直管段要求前3D后1D
  The minimum straight pipe requirement is 3D in front and 1D after
- 锂电池、24Vdc供电
  Lithium battery, 24Vdc power supply

热式气体质量流量计 Thermal-type gas mass flowmeter



- 精度等级可达1级
  Accuracy class can reach class
- 量程比可达1000：1
  Range ratio reach 1000:1
- 介质温度范围-40° C~500° C
  Medium temperature rangeis -40°C ~ 500°C
- 插入式结构易于安装维护
  Insertion construction is easy to install and maintain
- 高灵敏性适合大管径低流速工况
  High sensitivity is suitable for large pipe diameter and low flow rate
- 低压损，适合低压力工况
  Low pressure loss, suitable for low pressure working conditions

差压流量计产品系列

Differential pressure flowmeter product series

- 多种差压类型适应不同工况需求
  Various differential pressure types are suitable for different working conditions
- TS认证、ASME焊接认证、核级焊接认证
  TS certification, ASME welding certification and nuclear-grade welding certification
- 严格按照国家和国际标准生产加工
  Production and processing in strict accordance with national and international standards
- 非标类节流装置实流精度校准
  Non-standard throttling device use real flow to calibate
- 自保温一体化设计
  Integrated design of self-insulation



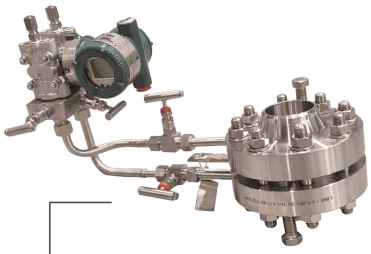
文丘里管

Venturi



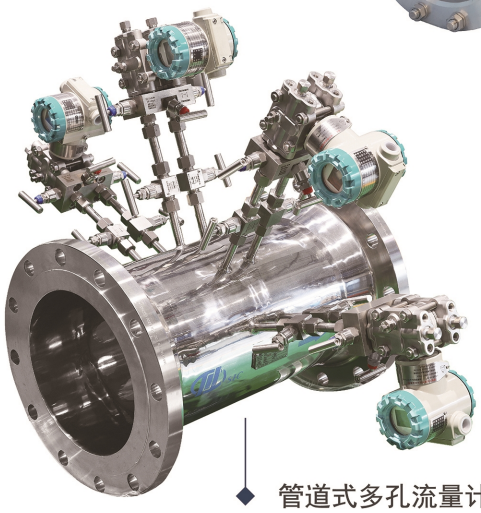
喷嘴流量计

Nozzle flowmeter



垂直管道一体化孔板

Integrated orifice plate for vertical pipeline



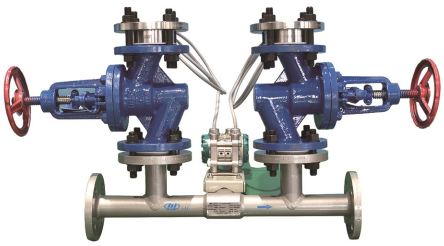
管道式多孔流量计

Tubular porous flowmeter



V锥流量计

V-cone flowmeter



楔形流量计

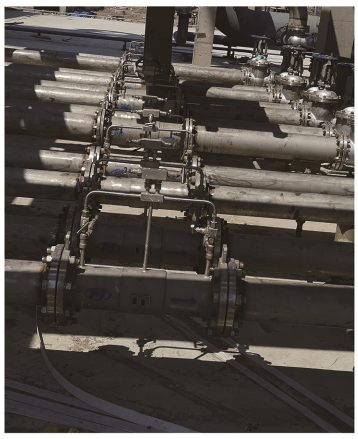
Wedge flowmeter

TYPICAL APPLICATION PERFORMANCE 典型应用业绩

石化行业
Petrochemical industry

用户名称 customer name	项目名称 Project Description
中石化洛阳工程公司 Luoyang Petrochemical Engineering Corporation Ltd./SINOPEC	哈萨克斯坦阿特劳炼油厂石油深加工联合装置（芳烃综合利用）、富德（常州）能源化工发展有限公司100万吨/年甲醇制烯烃、50万吨/年苯乙烯项目、浙江兴兴新能源科技有限公司：30万吨/年聚乙烯和39万吨/年丙烯工程DMTO项目--一期工程180万吨/年DMTO装置：中煤陕西榆林能源化工有限公司DMTO单元（360万吨/年煤制甲醇及其深加工项目1期） Combined Petroleum Deep Processing Unit (Comprehensive Utilization of Aromatic Hydrocarbon) of Atyrau Refinery in Kazakhstan, 1 Mt/a Methanol to Olefin and 500,000 t/a Styrene Project of Fude (Changzhou) Energy & Chemical Co., Ltd., 300,000 t/a Polyethylene and 390,000 t/a Propylene Project - DMTO - 1.8 Mt/a DMTO Unit Phase I Project of Zhejiang Xingxing New Energy Chemical Co. , Ltd., and DMTO Unit (3.6 Mt/a Coal to Methanol and Its Deep Processing Project Phase I) of China Coal Shaanxi Yulin Energy Chemical Co., Ltd.
中石油云南分公司 PetroChina Yunnan Company	1000万吨大炼油连续重整装置、硫磺装置、异构化装置、10000万吨年煤油项目制氢联合装置、1000万吨年炼油项目气分、制氢装置 Continuous Reforming Unit, Sulfur Unit and Isomerization Unit for 10 Mt Oil Refining, Hydrogen Production Combined Unit of 100 Mt Kerosene Project, Gas Separation and Hydrogen Production Unit of 10 Mt Refinery Project
中国石油大港石化公司 Petrochina Dagang Petrochemical Company	75万吨催化汽油加氢脱硫项目、90万吨脱硫醇项目、MTBE脱硫分馏塔、硫磺回收、汽柴油加氢精炼、溶液再生酸性水气提、60万吨连续重整 750,000 Tons Catalytic Gasoline Hydrodesulfurization Project, 900,000 Tons Desulfurization/Dealcoholization Project, MTBE Desulfurization Fractionator, Sulfur Recovery, Gasoline And Diesel Hydrofining, Solution Regeneration Sour Water Stripping and 600,000 Tons Oil Continuous Reforming
中海石油东营石化有限公司 CNOOC Dongying Petrochemical Co., Ltd.	硫磺回收装置、苯抽取装置、200万吨/年重油催化裂化装置、350万吨/年原料预处理装置、连续重整装置、酸性水汽提、20万吨/年工业异辛烷装置 Sulfur Recovery Unit, Benzene Extraction Unit, 2 Mt/a Heavy Oil Catalytic Cracking Unit, 3.5 Mt/a Raw Material Pretreatment Unit, Continuous Reforming Unit and Sour Water Stripping Unit, and 200,000 t/a Industrial Isooctane Unit
盛虹炼化（连云港）有限公司 Shenghong Refining & Chemical (Lianyungang) Co., Ltd.	1600万/吨炼化一体化项目 16 million/ton Refining and Chemical Integration Project







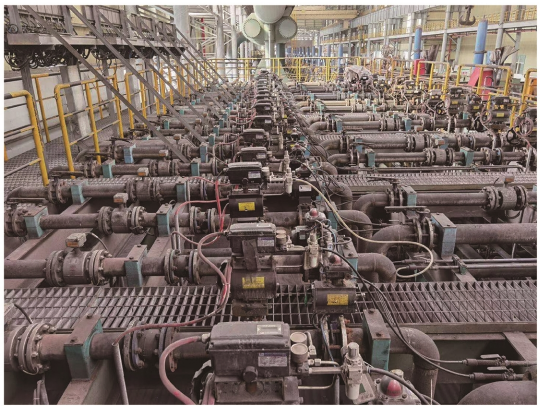
冶金行业
Metallurgy

用户名称 customer name	项目名称 Project Description
中国宝武钢铁集团 China Baowu Steel Group Corporation Limited	湛江项目（5500m3高炉、连铸、酸洗、公辅水处理）、罗径项目、一炼钢 、制氧、冷轧、硅钢能源计量 Zhanjiang Project (5500m3 Blast Furnace, Continuous Casting, Pickling,Public and Auxiliary Water Treatment), Luojing Project, No.1 Primary Steelmaking, Oxygen Production,Cold Rolling, Silicon Steel Energy Metering
中冶京诚工程技术有限公司 MCC Capital Engineering & Research Incorporation Limited	EPC（营口1750m3高炉、天钢3200m3高炉、印尼卡钢300万吨钢、伊朗300万吨钢、宣钢1800m3高炉、邯郸3*3200m3高炉、1*2000m3高炉、柳州钢铁连铸等） EPC (Yingkou 1750m3 Blast Furnace, Tiangang 3200m3 Blast Furnace, Indonesia Kagang 3 Million Tons Steel, Iran 3 Million Tons Steel, Xuanhua Steel 1800m3 Blast Furnace, Handan 3*3200m3 Blast Furnace, 1*2000m3 Blast Furnace, and Steel Continuous Casting of Liuzhou Steel, etc.)
首钢京唐钢铁联合有限责任公司 Shougang Jingtang Iron & Steel United Co., Ltd.	3*5500m3高炉 、550m2烧结机、12机12流连铸、原料场、5*300T转炉、1580冷轧 3*5500m3 Blast Furnace, 550m2 Sintering Machine, 12 Machines and 12 Production lines for Continuous Casting, Raw Material Yard, 5*300T Converter and 1580 Cold Rolling
中冶赛迪工程技术有限公司 Zhongye Saidi Engineering & Technology Co., Ltd.	EPC（宝钢湛江项目2*5000m3高炉、西昌钢铁2*2000m3高炉、承德钢铁2*2000m3高炉、燕钢2*2560m3、2*1080m3高炉、青钢1800m3、中阳钢铁1780m3高炉、山钢日照精品基地200T转炉等） EPC (2*5000m3 Blast Furnace in Zhanjiang Project of BaoSteel, 2*2000m3 Blast Furnace of Xichang Iron and Steel, 2*2000m3 Blast Furnace of Chengde Iron and Steel, 2*2560m3 and 2*1080 m3 Blast Furnaces of of Ye-Steel, 1800m3 Blast Furnace of Qingdao Iron & Steel, 1780m3 Blast Furnace of Zhongyang Iron and Steel, 200T Converter of SD Steel Rizhao Co., Ltd., etc.)
中冶南方工程技术有限公司 WISDRI	EPC（安钢2200m3、2800m3高炉、涟钢3200m3高炉、湘钢1800m3高炉新余2200m3高炉、龙钢2*1800m3高炉、马钢3600m3高炉、南钢2500m3高炉、印尼德信、山西立恒钢铁等） EPC (2,200m3 and 2800m3 Blast Furnaces of Anyang Iron & Steel, 3200m3 Blast Furnaces of LY Steel, 2,200m3 Blast Furnaces of XinSteel, 2 * 1800m3 Blast Furnaces of Longmen Iron & Steel, 3600m3 Blast Furnaces of Ma'anshan Iron & Steel, 2500m3 Blast Furnaces of Nangang Iron & Steel, PT. Dexin Steel Indonesia and Shanxi Liheng Steel Co., Ltd. etc.)
鞍钢集团新钢铁有限责任公司 Angang New Steel Company Limited	2*5300m3、2600m3高炉改造、4#、5#、10#、11#高炉改造 、8机8流连铸、西区连铸、厚板、烧结、脱硫备件 2*5300m3 and 2600m3 Blast Furnace Reconstruction, 4#, 5#, 10#, 11# Blast Furnace Reconstruction, 8 Machines and 8 Production Lines for Continuous Casting, Continuous Casting in West Zone, Thick Plate, Sintering and Desulfurization Spare Parts
山钢日照钢铁有限公司 Shandong IRON&STEEL Group Rizhao Co., Ltd.	精品钢基地（2*5100m3高炉、4*200T转炉、能源计量、2050mm热连轧、2030mm冷轧） Super Quality Steel Base (2*5100m3 Blast Furnace,4*200T Converter, Energy Metering, 2050 mm Hot Continuous Rolling, 2030mm Cold Rolling)

METALLURGY

宝山钢铁股份有限公司连铸机

Baoshan Iron & Steel Co., Ltd. Continuous caster





山东钢铁集团日照有限公司
2030mm冷轧项目

2030mm cold rolling project of SD Steel Rizhao Co., Ltd



首钢京唐钢铁联合有限责任公司
2*5500m3高炉

2*5500m3 blast furnace of Shougang Jingtang Iron&Steel Co., Ltd.

有色及选矿行业

Nonferrous and mineral processing industry

用户名称 customer name	项目名称 Project Description
开曼(三门峡)铝业有限公司 Kaiman (Sanmenxia) Aluminum Co., Ltd.	160万吨氧化铝（4期） 1.6 Million Tons Alumina (Phase 4)
山西孝义兴安化工有限公司 Shanxi Xiaoyi Xing'an Chemical Co., Ltd.	320万吨氧化铝 3.2 Million Tons Alumina
山东魏桥创业集团 Shandong Weiqiao Pioneering Group Company Limited	200万吨印尼氧化铝项目、北海200万吨、高新铝电150万吨 2 Million Tons Alumina Project in Indonesian, 2 Million Tons in Beihai and 1.5 Million Tons High-tech Aluminum Power
江西铜业贵溪冶炼厂 JCC Guixi Smelter	智慧工厂项目 Intelligent Factory Project
宁波力勤矿业有限公司 Ningbo Lygend Mining Co., Ltd.	印尼OBI镍钴冶炼项目 OBI Nickel And Cobalt Smelting Project In Indonesia

NONFERROUS AND MINERAL PROCESSING INDUSTRY

山东滨州北海氧化铝公司200万吨氧化铝

Shandong Binzhou Beihai Alumina Company
2 million tons of alumina





河南开曼铝业（三门峡）有限公司
160万吨氧化铝

Henan Cayman Aluminum (Sanmenxia) Co., Ltd.
1.6 million tons of alumina



山西孝义兴安化工有限公司320万吨氧化铝

Shanxi Xiaoyi Xingan Chemical Co., Ltd. 3.2 million tons of alumina

煤化工行业
Coal chemical industry

用户名称 customer name	项目名称 Project Description
烟台万华聚氨酯股份有限公司 Wanhua Chemical Group Co., Ltd.	老厂搬迁异氰酸酯一体化项目（30万吨MDI）、丙烷脱氢装置 The old factory relocated with Isocyanate Integration Project(300,000 tons MDI) and PDH Unit
山东华鲁恒升化工股份有限公司 Shandong Hualu-Hengsheng Chemical Co., Ltd.	20万吨/年多元醇项目、60万吨硝酸项目、醋酸装置节能新工艺改造项目环保型硫氨装置 200,000 t/a Polyol Project, 600,000 tons Nitric Acid Project, and Acetic Acid Plant Energy-saving New Technology Transformation Project - Environmental Protection Sulfur Ammonia Plant
中国天辰工程有限公司 China Tianchen Engineering Corporation	EPC伊朗ME100万/年甲醇项目 EPC ME 1 million/year Methanol Project in Iran
神华宁夏煤业集团公司 Shenhua Ningxia Coal Industry Group Co., Ltd.	83万吨二甲醚 830,000 tons of dimethyl ether
中安联合煤化有限责任公司 Zhong An United Coal Chemical Co., Ltd.	煤制170万吨/年甲醇及转化烯烃项目（35万吨/年聚丙烯装置、甲醇制烯烃（S-MTO)装置、烯烃催化裂解（OCC）装置），2015年的中天合创鄂尔多斯煤炭深加工示范项目35万吨/年聚丙烯装置；2*180万吨/年甲醇制烯烃（S-MTO）装置 1.7 Mt/a Coal to Methanol and Olefin Conversion Project (350,000 t/a Polypropylene Plant, Methanol to Olefin (S-MTO) Plant and Olefin Catalytic Cracking (OCC) Plant); 350,000 t/a Polypropylene Plant of ZTHC Ordos Coal Deep Processing Demonstration Project in 2015; 2 * 1.8 Mt/a Methanol to Olefin (S-MTO) Plant



COAL CHEMICAL INDUSTRY

万华化学集团股份有限公司MDI、
苯胺甲醛一体化气化项目
Wanhua Chemical Group Co., Ltd. MDI, aniline formaldehyde integrated gasification project





阳煤集团太原化工新材料有限公司
己内酰胺、乙二醇项目
Technical Reform Project for Gasificationof YANGMEI GROUP TAIYUAN NEW CHEMICAL MATERIALS CO.,LTD



神华宁煤集团二甲醚项目
Dimethyl ether project of Shenhua Ning Coal Group

医药化工
Pharmaceutical & chemical industry

用户名称 customer name	项目名称 Project Description
齐鲁制药（内蒙古）有限公司呼伦贝尔分公司 Qilu Pharmaceutical (Inner Mongolia) Co., Ltd. Hulunbeier Branch	2000吨/年泰妙菌素和3500吨/年新霉素 2000 t/year tiamulin and 3500 t/year neomycin
内蒙古阜丰生物科技有限公司 Inner Mongolia Dunang Photovoltaic Technology Co., Ltd.	苏氨酸 Threonine
宜都东阳光生化制药有限公司 HEC Pharm Co., Ltd.	红霉素3、4、5、6期 Erythromycin stage 3, 4, 5 and 6
浙江海翔川南药业有限公司 Zhejiang Hisoar Chuannan Pharmaceutical Co., Ltd.	医药中间体以及原料药项目 Pharmaceutical Intermediates and Bulk Pharmaceutical Chemicals Project
北京泰银集团黑龙江联顺生物科技有限公司 Beijing Taiyin Group Heilongjiang Lianshun Biotechnology Co., Ltd.	绿色生物医药产业项目 Green Biomedical Industry Project

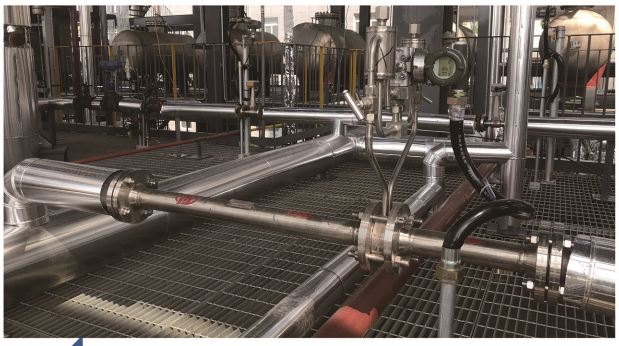


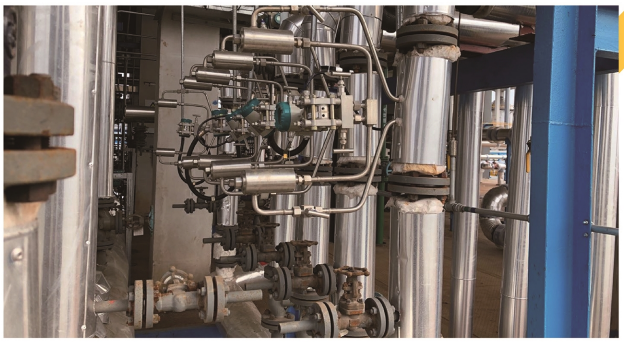




其它化工
Other chemical industry

用户名称 customer name	项目名称 Project Description
陕西红马科技有限公司 Shaanxi Hongma Science & Technology Co., Ltd.	10000/年锂离子动力电池多元正极材料 10000/ year multi-component cathode material for lithium ion power battery
天津渤海化工集团有限责任公司 Tianjin Bohai Chemical Industry Group Co., Ltd.	盛华40万吨/烧碱。PVC/自备电厂 Shenghua 400,000 tons/caustic soda. PVC/ self-provided power plant
内蒙古鄂尔多斯电力冶金集团股份有限公司 Inner Mongolia Ordos Electric Power Metallurgy Group Co., Ltd.	氯碱化工分公司40万t/Apvc、30万t/a烧碱项目 400,000 t/Apvc and 300,000 t/a causticsoda projects of chlor-alkali chemical branch
浙江龙盛集团股份有限公司 Zhejiang Longsheng Group Co., Ltd.	1150吨电子化学品及2000吨-二氯氟苯乙酮项目 1,150 Tons of Electronic Chemicals and 2,000 Tons of Dichlorofluoroacetophenone Project
江苏双象集团奕翔化工有限公司 Yixiang Chemical Co., Ltd. of Jiangsu Shuangxiang Group Co., Ltd.	特殊脂（MMA)项目 Special Grease (MMA) Project







造纸行业
Paper industry

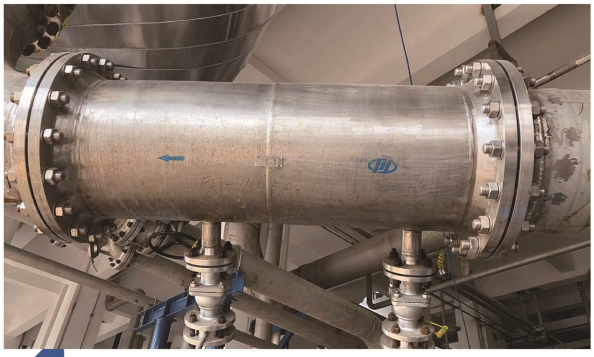
用户名称 customer name	项目名称 Project Description
山东太阳纸业股份有限公司 Shandong Sun paper Co.,Ltd.	16号纸机、化机浆、中段水处理 No.16 Papermaking Machine, Chemical-mechanical Pulp, Middle Section Water Treatment
山东博汇纸业股份有限公司 Shandong Bohui Paper Industry Co.,Ltd.	中段水处理、5000m3/d脱墨、化学浆 Middle Section Water Treatment, 5000m3/d Deinking, Chemical Pulp
濮阳龙丰纸业有限公司 Puyang Longfeng Paper Co.,Ltd.	10万吨杨木纸浆　25万吨低定量涂布纸 100,000 tons poplar pulp and 250,000 tons low-weight coated paper
浙江金励环保纸业有限公司 Zhejiang Jinli Environmental Protection Paper Co., Ltd.	100万环保再生高档包装用纸 1 Million Environmental Protection Recycled and High-grade Packaging Paper
四川环龙新材料有限公司 Sichuan Vanov Daily Use Commodity Co., Ltd.	斑布健康竹产业园百万吨竹材生物质精炼项目 Million ton bamboo biomass refining project in Banbu Healthy Bamboo Industrial Park





电力行业
Power industry

用户名称 customer name	项目名称 Project Description
国能四川天明发电有限公司 Guoneng Sichuan Tianming Power Generation Co. , Ltd.	2×1000MW机组 2×1000MW Units
重庆安稳电厂 Chongqing Anwen Power Plant	2×600MW机组 2×600MW Units
阿曼电厂 Oman Power Plant	2×300MW机组 2×300MW Units
山东电力建设第三工程公司 SEPCO III Electric Power Construction Corporation	摩洛哥Jerada1×350MW燃煤电站项目、努奥摩洛哥Noor II 200MW光热电站项目、努奥摩洛哥Noor III 150MW光热电站项目、阿曼苏赫联合循环燃机电站工程、沙特延布5*600MW燃机项目 1× 350mw Coal-fired Power Station Project in Jerada, Morocco, 200 MW Solar-thermal Power Station Project II in Noor, Morocco, 150MW Solar-thermal Power Station Project III in Noor, Morocco, Sohar Combined Cycle Gas Turbine Power Station Project in O-man, and 5× 600mw Gas Turbine Project in Yanbu, Saudi Arabia
山东电建铁军电力工程有限公司 Shandong TIEJUN Electric Power Engineering Co.,Ltd.	约旦侯赛因燃机项目、巴基斯坦卡西姆2×660MW燃煤电站项目、印尼西加里曼丹2X100MW燃煤电站项目 Hussein Gas Turbine Project in Jordan, Kassim 2×660MW Coal-fired Power Station Project in Pakistan, 2X100MW Coal-fired P-ower Station Project in Klimantan Barat, Indonesia







市政行业
Municipal industry

用户名称 customer name	项目名称 Project Description
重庆市自来水有限公司 Chongqing Tap Water Co., Ltd.	一户一表及大客户 One meter per household and big customers
重庆鸡冠石污水处理厂 Chongqing Jiguanshi Sewage Treatment Project Management Co., Ltd.	100万/日吨污水处理 1 Mt/a Sewage Treatment
佛山市西江水厂 Foshan Xijiang Waterworks	100万吨自来水1期工程 1 Mt Tap Water Project Phase I
山西大同水务集团 Shanxi Datong Water Group	三供一业 Three supplies (water, electricity and heat) and property management
郑州市柿园水厂 ZhengZhou Shiyuan Waterworks	33万吨水厂 330,000 tons Waterworks

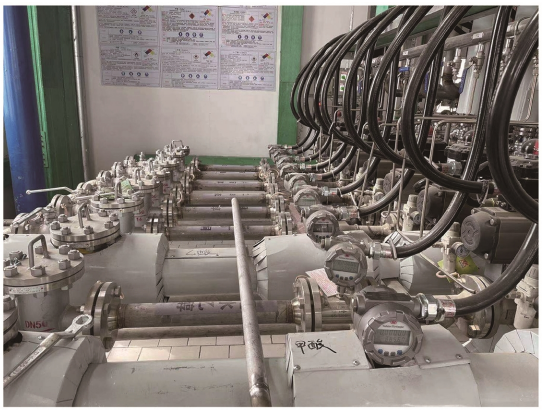






配套及其它
Matching and others

用户名称 customer name	项目名称 Project Description
光大环保能源有限公司 Guangda Environmental Protection Energy Suzhou Co. Ltd.	平度市/遂宁/沛县/滕州生活垃圾焚烧处理发电项目 Pingdu city/Suining/Peixian/Tengzhou Domestic Waste Incineration Power Generation Project
中节能（北京）节能环保工程有限公司 CECEP (Beijing) Energy Conservation and Environmental Protection Engineering Co., Ltd.	汕头/郯城/天水/烟台生活垃圾焚烧处理发电项目 Shantou/Tancheng/Tianshui/Yantai Domestic Waste Incineration Power Generation Project
圣元环保电力有限公司 Shengyuan Environmental Protection Power Co., Ltd.	郓城/庆阳/汶上/梁山生活垃圾焚烧处理发电项目 Yuncheng/Qingyang/Wenshang/Liangshan Domestic Waste Incineration Power Generation Project
重庆三峰科技有限公司 Sanfeng Science & Technology Co. Ltd.	汕尾/赤峰/红庙岭/梅州生活垃圾焚烧处理发电项目 Shanwei/Chifeng/Hongmiaoling/Meizhou Domestic Waste Incineration Power Generation Project
安徽海螺川崎工程有限公司 Anhui Conch Kawasaki Engineering Co., Ltd.	莎车/庐江/澧县生活垃圾焚烧处理发电项目 Shache/Lujiang/Lixian Domestic Waste Incineration Power Generation Project









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重庆川仪自动化股份有限公司
CHONGQING CHUANYI AUTOMATION CO.,LTD



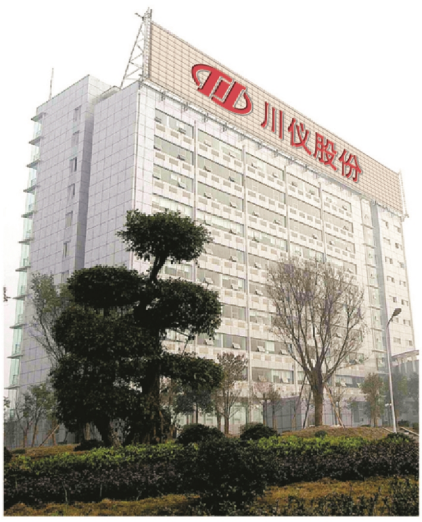
TECHNOLOGY SERVICE 技术服务







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