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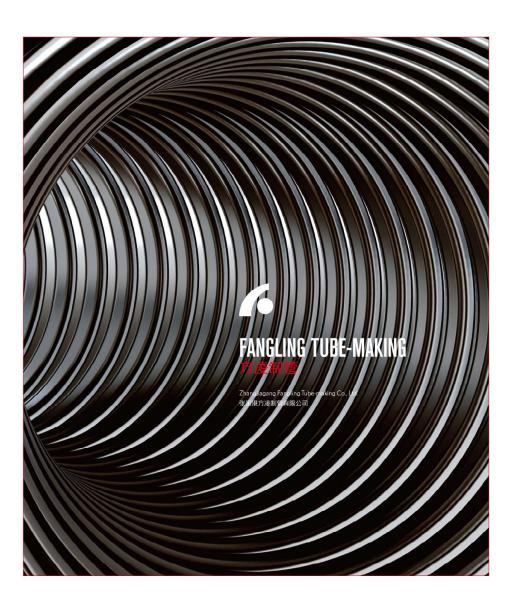


FANGLING TUBE-MAKING

方凌制管

Zhangjiagang Fangling Tube-making Co., Ltd. 张家港方凌制管有限责任公司





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Zhangjiagang Fang Ling Pipe Co., Ltd. is a professional manufacturer of industrial pipes of small diameter stainless steel manufacturing enterprise, the company is located in China's most economically developed Yangtze River Delta, Zhangjiagang City, Jiangsu Province, 100 km east from Shanghai, South near Wuxi, Suzhou, north of Yangtze River port, excellent geographical conditions.



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以市场为导向 以技术为动力 以质量为根本

Oriented to market, Motivated by technology and Quality first





钢焊管的制造型企业,公司位于中国经济最发达的长江三角洲地 区,江苏张家港市,东离上海100公里,南近无锡,苏州,北临 长江港, 地理条件优越。

自从1994年公司成立以来,我们一直全身心致力于小口径不锈 钢管的研发和制造。公司拥有先进的不锈钢氩弧焊生产线10台 套,产品规格为直径3mm-76.2mm,厚度0.25mm-3.0mm, 钢种主要有, 304/304L, 316L, 321, 317L, 309S, 310S, INCOLOY800系列,以及其他一些特殊钢种。执行生产标准有 GB, ASTM, ASME, JIS, EN。公司现在生产能力2500吨/ 年, 其中直径 <25.4mm的小口径管1800吨。

我们的产品主要用于,啤酒饮料的冷凝器,工业设备的热交换 器,石油化工仪器仪表,电加热器,汽车零件管,各种中高档民 用产品的机械结构管,以及其它一些管件用管。公司一直坚持以 质量为核心, 从原材料到生产工艺, 到检验检测方法进行严格控 制。2014年通过国际顶尖认证机构SGS公司的质量体系证。

凭借公司优良的产品品质, 我们已经成为国内具有一定影响力的 小口径焊管的制造企业。公司以全程跟踪式的服务,和竞争力的 价格,给客户创造价值为导向,产品已经出口至美国,德国,西 班牙, 南美, 东南亚, 中东, 东欧等三十多个国家和地区。

账家港方凌制管有限责任公司是一家专业生产工业用小口径不锈 Zhangjiagang Fangling Tube-making Co., Ltd. is a manufacturing enterprise which is specialized in producing small-caliber stainless steel welded tube/pipes. The Company is located in Zhangjiagang-China's most economically developed area (Yangtze River Delta). The Company, 100km away from Shanghai in the east, adjacent to Wuxi and SuZhou in the south and connected to the Yangtze River Port in the north, and enjoys tavorable geographical conditions.

> Since the establishment in 1994, the Company has been committed to R&D and manufacturing of small-caliber stainless steel tubes. The Company has 10 advanced stainless steel argon arc welding production lines. Product specifications: Diameter 3-76.2mm and thickness 0.25-3.0mm. Steel types: 304/304L, 316L, 321, 317L, 309S, 310S, INCOLOY800 series and some other special steels. Production standards: GB. ASTM. ASME. JIS and EN. The Company's production capacity is 2500t per year, including 1800t small-caliber tubes (diameter<25.4mm).

> Our products are mainly used in condenser for beer and drinks, heat exchanger for industrial equipment, petrochemical instruments, electric heaters, pipes for automobile parts, various mechanical pipes for medium and high grade civil-use products and some other pipes for pipe fittings. The Company always regards quality as the core, from raw material, production process to inspection and test methods are all treated with strict control. The Company passed quality system certification by international top certification authority-SGS Company in 2014.

> With high quality of products, it has become an influential enterprise in small-caliber welded tube manufacture. Characterized by omnidirectional service, competitive price and oriented by creating values for customers, the Company has sold its products to more than 30 countries and regions including the US. Germany, Spain, South America. Southeast Asia, the Middle East and Eastern Europe.



总经理致辞 **GENERAL MANAGER'S SPEECH**

总经理: 高怀成

尊敬的社会各界人士和来自五湖四海的客户朋友们:

首先非常感谢您能够关注方凌公司的产品和服务,希望我 们以后有机会携手合作, 共谋发展。

自从1994年公司成立以来,我们经历二十年的风风雨 雨, 走过坎坷的发展历程, 公司从小到大, 由弱到强, 成 为国内颇具规模和影响的小口径不锈钢管的制造基地。方 凌人信奉"诚信做人,踏实做事,产品做精,企业做强,

合作共赢"的经营理念,克服重重困难,大胆创新,按照 高要求, 高标准的原则, **生产每一支好管**, 为顾客创造更 多的价值、提供更为信赖的服务。

公司所有的进步都来自于方凌团队实力的增强和顾客的支 持。展望未来,我们不会满足已有成绩,将投入更多的精 力和资源,加强产品的技术研发力量;坚持不懈地全面提 升自身素质,完善服务水平,以更高的视野和智慧,把公 司打造成为国内最优秀的不锈钢小口径钢管制造专家。

Distinguished people from all circles and customers from all

First, thank you for paying attention to the products and services of Fangling Company. I sincerely hope that we can work together to seek common development in the future.

Since the establishment in 1994, we have experienced 20 years of hardships and gone through a rough development history. The Company expanding from small to large and growing from weak to strong has become a sizeable and influential manufacturing base of small-caliber stainless steel pipes. With the business philosophy of "Honest man, practical, fine products, powerful enterprise and win-win cooperation", Fangling people overcome numerous difficulties, make bold innovations, produce each good pipe according to the principle of "high standard and high demand", create more value for customers and provide more reliable services.

All improvements of the Company result from strength growing of Fangling team and customers' support. Looking forward to the future, it will not be satisfied with current achievements. The Company will put more efforts and resources, strengthen technical R&D force for products, enhance individual quality in all respects ceaselessly, improve services and develop itself into the best manufacturing expert of small-caliber stainless steel pipes with a broaderview and wisdom.

FANGLING TUBE-MAKING FANGLING TUBE-MAKING | 02

FANGLING TUBE-MAK 方凌制管

PRODUCTION EQUIPMENT 生产设备

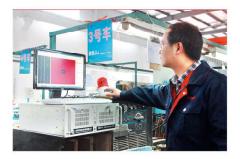


FANGLING TUBE-MAKING 方凌制管

Zhangjiagang Fangling Tube-making Co., Ltd 胀家港方湊制管有限公司

科学管理,先进的生产设备是优质、稳定产品的前提和保证。我们表承了世界 先进的管理经验,引进了大量的国际、国内的精密生产设备,严格控管,精益 安捷

Scientific management and advanced production equipment are the premise and guarantee for high quality and stable products. We have inherited advanced management experience in the world and introduced a large quantity of international and domestic precision production equipment, implement strict control and pursue constant improvement.



PRODUCTION EQUIPMENT 生产设备

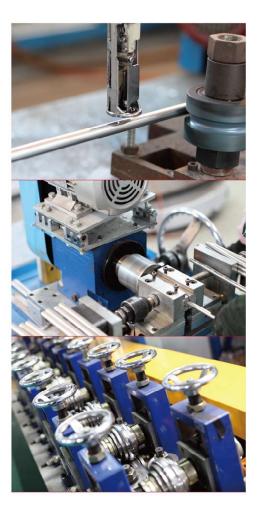
FANGLING TUBE-MAKING





公司拥有先进的不锈钢氩弧焊生产线10台套,光亮退火生产线9台套,产品 规格从直径3mm-76.2mm,厚度0.25mm-3.0mm,公司还具有齐全的配套 设备,如涡流探伤、调直、冷拔、抛光、酸洗、切管、修端、激光喷码、弯 管等。能够最大程度地满足顾客对产品的需要。

The Company has 10 advanced stainless steel argon arc welding production lines, 9 bright annealing production lines. Product specifications: Diameter 3-76.2mm and thickness 0.25-3.0mm. The Company also has complete supporting equipment including eddy current inspection, alignment, cold drawing, polishing, acid pickling, tube cutting, end trimming, code printing with laser and elbow pipes which can meet the customers' demands to the greatest extent.



FANGLING TUBE-MAKING 方凌制管

Process Flow 工艺流程

高精密高品质的产品来源于: 从原材料开始严格的品质管控, 合理 的加工工艺,精准高效的设备,先进的加工检测设备。

High precision and high quality products are from: Strict quality control from raw materials, reasonable processing technology, accurate and high-efficiency equipment and advanced processing and testing equipment.



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PRODUCT INTRODUCTION 产品介绍

如果你公司需要管材,您可以完全依赖方凌制管的团队,这归功于我们特殊设计的 If you need tubing, Fangling will be your best choice. Because of our specially

方凌的工程师密切关注着生产和试验的每一个环节,以确保供应高性能的高精度焊 管。

制造程序,我们可以便捷有效地响应顾客的要求,而不管要求有多么苛刻,在焊 designed manufacturing procedure, the Company can conveniently and effectively 接,光亮退火,以及其他工艺方面的创新,让我们不断地拓展产品解决方案的范 respond to the customers' demands. However,the demanding Innovation on welding, bright annealing and other processes can expand the range of product

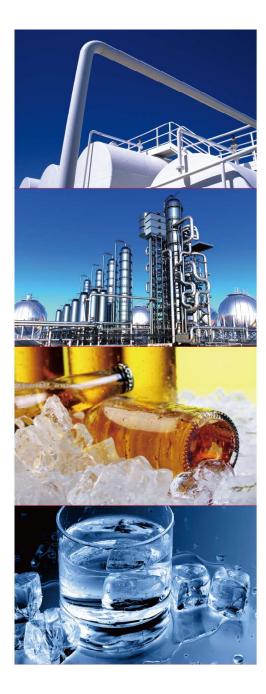
> Engineers of Fangling pay close attention to each procedure of production and testing to ensure we can supply high performance and high precision welded pipes.





注:根据客户需要严格按照GB、ASTM、DIN、EN、JIS、ISO标准生产。

Note: According to the customers' demands, make production in accordance with GB, ASTM, DIN, EN, JIS and ISO standards strictly.





STAINLESS STEEL **COIL TUBE** 不锈钢盘管

在中国大陆,方凌是第一家研发出不锈钢超长盘管的厂家,20年的制造经验,我们 成为中国国内**最大的不锈钢盘管生产基地**。

日前,我们拥有盘管生产线6台套,10条光亮退火生产线,设备齐全,技术领先, 具备完善的检验检测手段,为顾客提供了最为可靠的管路解决方案。



常用不锈钢牌号

Frequently-used Stainless Steel Designation TP304, TP304L, TP316L, TP321, TP310S, TP2205

牛产标准

Production Standard ASTM A269/A249, EN10217-7

Fangling is the first enterprise researching and developing ultra-long stainless steel coil tube in mainland China. With 20 years of manufacturing experience, the Company has become the largest stainless steel coil tube production base in China.

Currently the Company has 6 coil tube production lines and 10 bright annealing production lines. Complete equipment, leading technology and perfect inspection and testing methods provide the most reliable pipeline solutions for customers.

FANGLING TUBE-MAKING 方凌制管

STAINLESS STEEL COIL TUBE 不锈钢盘管



STAINLESS STEEL COIL TUBE 不锈钢盘管



STAINLESS STEEL COIL TUBE 不锈钢盘管



Manufacturer's Technical Parameters for Stainless Steel Welded Coil tube

- ⊙ 尺寸范围: 外径3MM-25.4MM
- ⊙ 壁厚: 0.3MM-2.0MM
- ⊙ **盘管的高度**: 200MM-400MM (可根据顾客要求作出调整)
- 米; Φ9.53x0.89, 可达1000米
- ⊙ 一般交货长度: 200米-1000米

- ⊙Size Range: Outer diameter 3-25.4MM
- ⊙ Wall Thickness: 0.3 2.0MM
- 盘管的内孔尺寸:500MM-1500MM(可根据顾客要求作出 Inner Bore Size of Coil: 500-1500MM (It can be adjusted as required by customers)
 - ⊙ Coil Height: 200-400MM (It can be adjusted as required by customers)
- 盘管的最大长度: Ф3x1,可达3000米; Ф8x0.5, 可达2000 Maximum Length of Coil: Ф3x1, up to 3000m; Ф8x0.5, up to 2000m; Φ9.53x0.89, up to 1000m
 - ⊙ General Delivery Length: 200-1000m

光亮退火状态的钢管物理性能举例

Example of Physical Properties of Steel Pipe under Bright Annealing Condition

- ⊙ 延伸率: >55%
- ⊙ 表面硬度: <170HV
- ⊙ 抗拉强度: >550N/MM2
- ⊙ 屈服强度: >195N/NM2
- ⊙ 弯曲角度: >90°, 弯曲半径>2X外径
- 耐压性能:以8x0.5xC为例,工作压力不了小60BAR
- ⊙ Elongation Percentage: >55%
- ⊙ Surface Hardness: <170HV</p>
- ⊙ Tensile Strength: >550N/MM2
- ⊙ Yield Strength: >195N/NM2
- ⊙ Bending Angle: >90°, Bending Radius>2X Outer Diameter
- OPressure Resistance: Take 8x0.5xC for example, the working pressure shall not be less than 60BAR

我们的优势

Our Advantages

- 我们可以做得更长 ⊙ 每支盘管无论多长,绝无泄漏
- ⊙ 100%检测,耐压更可靠
- 內外洁净,可以达到食品级(顾客需提前说明)
- 规格齐全,部分规格有现货
- ⊙ 通过FDA测试

- O We can make it longer
- O No matter how long each coil tube is, there will be no leakag
- 100% inspection, pressure resistant and more reliable
- ⊙ Internal and external clean, reach food grade (Customers shall give prior notice)
- O Complete specifications, products of some specifications in stock
- O Pass FDA test



STAINLESS STEEL COIL TUBE 不锈钢盘管





盘管的规格表 Coil tube Specification Table

外径mm 厚度mm	3.0~4.0	4.01~6.00	6.01~8.00	8.01~10.0	10.01~12.7	12.71~19.05	19.05~25.4
0.30~0.40	√	√	√				
0.41~0.50	√	√	√	√			
0.51~0.60	√	4	√	√	√		
0.61~0.70	√	√	√	√	√	1	
0.71~1.00	√	√	√	√	√	√	√
1.01~1.20		√	√	√	V	√	√
1.21~1.50				√	√	√	√
1.51~2.0					√	√	V

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STAINLESS STEEL WELDED PIPE FOR ELECTRIC HEATER 电加热器用不锈钢焊管

作为最早生产电加热器用不锈钢焊管的企业,20年的发展历程,我们积累 了丰富的生产经验和强大的技术力量。

我们为每一个顾客订制一套生产工艺,完整详细的工艺技术以及全面的检 绘检测流程,确保每一支钢管的质量更加可靠。我们的目标是让顾客放心使用 每一支钢管。

With 20 years of development history, Fangling-the first enterprise producing stainless steel welded pipes for electric heater has accumulated rich experience and strong technical force.

The Company will customize a set of production process for each customer. Complete and detailed process technology and overall inspection and testing procedure will ensure more reliable quality of each steel pipe. Our objective is to make the customer use each steel pipe at ease.





应用领域 Application Fields

- ⊙ 各种金属管状电加热器,白色家电,加热设备。
- Various metal tubular electric heaters, white household appliances and heating equipment.

生产标准 Production Standard

⊙ ASTM A269, EN10217-7,GB/T24593-2009

常用不锈钢牌号 Frequently-used Stainless Steel Designation

© TP304,TP321,TP316L,TP309S,310S,INCOLOY800/840/825

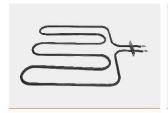
交货状态 Delivery Status

- 焊接(不退火) / 退火软态。
- Welding (no annealing)/annealing soft state.

生产能力 Production Capacity

- ○800吨/年。
- ⊙ 800t/year.









FANGLING TUBE-MAKING 方凌制管

Zhangjiagang Fangling Tube-making Co., Ltd ak 安康 中央制度 本原公司

我们的优势 Our Advantages

- 精心选择可靠的不锈钢原材料
- 为顾客量身订制管道解决方案
- ⊙ 焊缝牢固,管材可以做得更柔软
- ⊙ 规格齐全,几乎可以覆盖所有电热行业用管需要
- \odot Select reliable stainless steel raw material elaborately
- ⊙ Provide customized pipeline solutions for customers
- $\odot\,$ Firm welds, the pipes can be more flexible
- Complete specifications can almost meet all the demands for pipes in electric heating industry

电加热管用不锈钢焊管规格表

Specification Table of Stainless Steel Welded Pipe for Electric Heating Pipe

外径mm厚度mm	6.35	7.0~7.5	7.8~8.0	8.8~9.0	9.3~9.5	9.8~10.0	10.8~11.0	12.0	12.7~13.0	14.0	15.0	15.8~16.0	18.0~18.5	19.0~23.0	25.0
0.4~0.5	1	V	V	√	√	√	√								
0.51~0.6	1	√	√	√	√.	√	1	1	√						
0.61~0.8			V	√	√	√	V	V	√	V	√	√	√	√	√
0.81~1.0						√	1	1	√	1	1	4	V	√	1
1.01-1.2									4	4	4	4	4	4	4
1.211.5												4	√	4	√

STAINLESS STEEL WELDED PIPE FOR INDUSTRIAL PURPOSE 工业用途不锈钢焊管

公司引进最先进的工业管生产线2台套,配备内焊缝整平,在线光亮固溶,外焊缝在 线打磨,超声波氩弧焊接,在线涡流探伤等最设备。钢管规格从外径12MM到76.2 MM. 厚度0.5mm-3.0mm。

The Company has introduced 2 most advanced industrial pipe production lines with equipment on internal welds leveling, online bright solid solution, online polishing for external welds, ultrasonic argon arc welding, online eddy current inspection, etc. Steel pipe specifications: Outer diameter 12-76.2mm and thickness 0.5-3mm.





应用领域 Application Fields

- ⊙ 食品饮料, 石油化工, 热交换器、冷凝器, 海洋环境, 造纸, 化肥等。
- Food and drinks, petrochemical industry, heat exchanger, condenser, marine environment, paper-making, chemical fertilizer, etc.

生产标准 Production Standard

⊙ ASTM A249,ASTM A688,ASTM A789

常用不锈钢牌号 Frequently used Stainless Steel Designation

- ⊙ TP304, TP304L,TP316L,TP316TI,TP317L,以及双相钢2205等。 © TP304, TP304L, TP316L, TP316TI, TP317L, dual-phase steel 2205, etc.
- 生产能力 Production Capacity ⊙ 800吨/年。
- ⊙ 800t/year.







工业用途不锈钢焊管规格表 Specification Table of Stainless Steel Pipe for Industrial Purpose

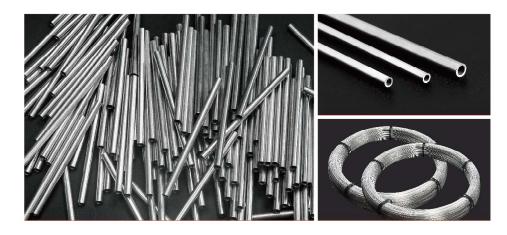
外径mm 厚度mm	12~12.7	12.71~15.88	15.89~19.05	19.06~25.4	25.5~38.1	38.1~50.8	50.8~76.2
0.5	V	1	1				
0.6	V	4	1	1			
0.7	V	4	4	√	1		
0.8	√	4	4	√	4	V	
1.0	V	4	4	√	1	1	√
1.2	V	4	1	1	1	1	V
1.5	4	4	1	1	1	√	√
2.0		4	1	V	1	√	√
3.0				√	V	√	√

以市场为导向 以技术为动力 以质量为根本

Oriented to market, Motivated by technology and Quality first

CAPILLARY STAINLESS STEEL WELDED PIPE/CAPILLARY COIL TUBE

毛细不锈钢焊管 / 毛细盘管



- ⊙ 常用材质: 304/304L,316L,321
- ⊙ 外径: 2.5MM-6.0MM
- 厚度: 0.2MM-1.5MM
- ⊙ 长度可以定尺,盘管最长可达5000米
- ① 应用领域: 仪器仪表, 海洋石油, 化工, 电器等行业。
- O Frequently-used Materials: 304/3041, 3161 and 321
- ⊙ Outer Diameter: 2.5-6.0MM
- ⊙ Thickness: 0.2-1.5MM
- \odot The length can be fixed and coil length is up to 5000 m
- Application Fields: Instrument, offshore oil, petrochemical and electric appliance industries.







STAINLESS STEEL PIPE FOR MECHANICAL STRUCTURE 机械结构不锈钢管

我们可以按通常的标准生产外,也可根据顾客对产品的不同使用要求,制定特殊的技术指标和生产工艺,对尺寸公差,硬度,表面 和内孔粗糙度进行控制,最大程度满足顾客的需要。

In addition to producing according to general standards, the Company can also make special technical indexes and production process to control dimensional tolerance, hardness and surface and inner bore roughness in order to meet the demands of customers to the greatest extent according to various use requirements by customers on products.







- ⊙ 生产标准: ASTM A450,ASTM A544,ASTM A269
- 常用不锈钢牌号: 铁素体 TP409/409L,TP430,443,439,436; TP201, 202, TP304、TP304L, 316L
- ⊙ 生产能力: 1000吨/年
- 壁厚:0.4MM 2.0MM
- 应用领域: 汽车工程, 航天航空, 厨卫家居, 管件结构, 印刷纺织等等。
- Production Standards: ASTM A450, ASTM A544 and ASTM A269
- ©Frequently-used Stainless Steel Designations: Ferrite TP409/409L, TP430, 443, 439, 436; TP201, 202, TP304, TP304Land 316L
- O Production Capacity: 1000t/year
- Specification Range: 9.5-76MM
- ⊙ Wall Thickness: 0.4-2.0MM
- Application Fields: Automobile engineer, aerospace, kitchen
 Bathroom and households, pipe fitting structure, printing
 Etextile, etc.

DEEPLY PROCESSED PRODUCTS OF STAINLESS STEEL PIPE

不锈钢管深加工产品

















不锈钢弯管管路 Stainless Steel Elbow Pipeline



不锈钢弯管管路 Stainless Steel Elbow Pipeline



不锈钢五金制品 Stainless Steel Hardware Products

19 FANGLING TUBE-MAKING

QUALITY CONTROL 品质控制

公司有完善的质量控制体系,从入料检验,产品过程检验到最终的检验,严格的质量过程控制管理,确保了产品的质量及可追溯性。

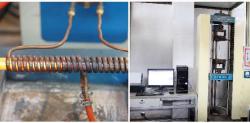
The Company has perfect quality control system from feeding inspection to production process inspection to final inspection and strict quality process control management to ensure product quality and traceability.





方凌制管











PARTNERS 合作伙伴

公司与一批知名企业形成良好的合作关系,产品广销全国十几个省份。 同时,产品还出口至世界上三十多个国家和地区。

The Company maintains good cooperative relationship with a number of well-known enterprises and the products are sold to a dozen of provinces in China.

Besides, the products are sold to more than 30 countries and regions.









SALE NETWORK 销售网络



我们始终坚持以客户为中心开展一切工作,果持真心,时 刻关注客户的需求。以强大的技术力量团队,可根据不同 客户的具体要求提供切实可行的技术方案,未保证提供客 户满意的产品。

The Company will always carry out work by customer-orientation principle, keep the sincere heart and pay attention to the customers' demands constantly. The Company's strong technical team can provide feasible technical plans for customers according to their detailed requirements and ensure the products provided are satisfactory to all customers.







九阳

海尔

格力







美的

熔盛重工

西班牙法格







德国 IMI 工业

美国优尼科石油化工

乌克兰啤酒工业