

Kingland Group Survey

金洲集团有限公司是一家主营管道制造、生态旅游等产业的大型企业集团。集团总部地处太湖南岸山水清远、风光秀丽的湖州市，东临上海、南接杭州，104国道、318国道、宣杭铁路、杭宁高速公路和长湖申运河在此交汇，地理位置得天独厚，水陆交通十分便捷。

金洲集团下属浙江金洲管道科技股份有限公司（主导产品：钢塑复合管、热浸镀锌钢管、高频焊管、双面涂敷钢管），浙江金洲管道工业有限公司（主导产品：双面埋弧螺旋焊钢管、FBE

/2PE/3PE防腐钢管、PP-R和PE管材管件），湖州石油天然气管道有限公司（主导产品：ERW630高频直缝电阻焊钢管）等9个子公司和云南金孔雀旅游集团，员工2000余人。集团拥有数十套国内领先的管道自动化生产线，汇聚了一大批机械制造、管道工程、高分子材料、旅游管理以及信息情报方面的精英人才，构成了企业持续发展的坚实基础和坚强队伍。

金洲集团以其雄厚实力和强劲发展势头，被中国社会科学院评定为“中国民营企业竞争力50强”之一，被国家工商总局评定为“全国守合同重信用企业”，“金洲”商标被认定为“中国驰名商标”。

Kingland Group Co.,Ltd. is a large-size enterprise with the pipe manufacturing and tourism. The headquarters is located in the city of Huzhou, south bank of Tai Lake, west of Shanghai, north of Hangzhou. The No. 104 State Highway, The No. 318 State Highway, Xuancheng-Hangzhou Railway, Hangzhou-Nanjing Expressway and Changxin-Huzhou-Shanghai Canal pass through it. It has unique location and convenient land and water transportation.



Kingland Group has 9 subsidiaries including Zhejiang Kingland Pipe and Technologies Co.,Ltd. (with main products: Hot Dipped Galvanized Steel Pipe, ERW pipe, polyethylene-lined steel pipe, double sides coated steel pipe), Zhejiang Kingland Pipe and Industry Co.,Ltd. (with

main products: Double Submerged-Arc Spirally Welded Steel Pipe, FBE/2PE/3PE Coating Steel Pipe, PP-R and PE pipes and pipe fittings), Huzhou Kingland Petroleum-Gas Pipeline Co.,Ltd. (with main products: Large Diameter Electric Resistance Welded Steel Pipe), and Yunnan Golden Peacock Tourism Group. It has over 2000 employees. Kingland has tens of modern automatic pipe lines, numerous talented personnel with mechanical, manufacturing, pipeline engineering, materials, tourism management and information background, consisting in solid foundation and management team for sustained development. With solid strength and development trend, Kingland is ranked as one of the 50 most competitive private enterprises. It is assessed as "Contract and Creditability Commitment Enterprise" by China Industry and Commerce Bureau. "Kingland" Trademark is awarded as "China Famous Trademark".

浙江金洲管道科技股份有限公司

ZHEJIANG KINGLAND PIPE AND TECHNOLOGIES CO., LTD

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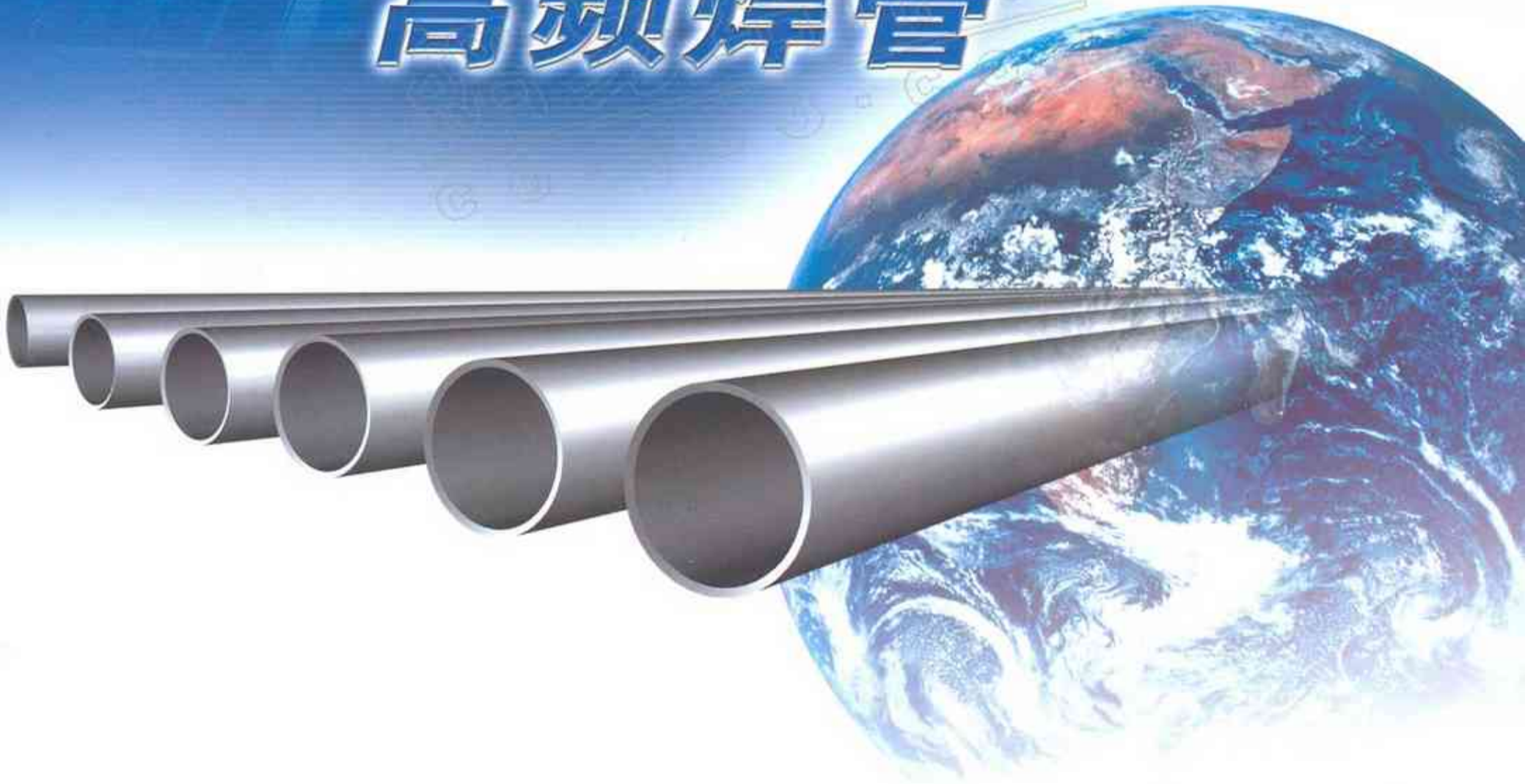
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Zhejiang Kingland Pipe And Technologies

KINGLAND PIPES

热浸镀锌钢管 高频焊管



HOT DIP GALVANIZED WELDED STEEL PIPE

HIGH FREQUENCY WELDED STEEL PIPE/BLACK PIPE

Company Survey



浙江金洲管道科技股份有限公司创始于1982年，是金洲集团的核心子公司。历经20多年的艰苦创业与专业经营，公司已发展成为全国最大的管道科研生产基地之一，跨入“国家火炬计划重点高新技术企业”和“浙江省100个拳头产品骨干企业”行列，并分别被国家和省、市政府确定为“企业管理先进单位”、“五个一批”企业和“重中之重”企业。公司主导产品“金洲”牌热浸镀锌钢管、高频焊管和钢塑复合管，全面通过ISO9001:2000质量体系认证，荣获“浙江省名牌产品”称号，“金洲”商标被认定为“中国驰名商标”和“浙江省著名商标”。

公司拥有11条高频焊管和热浸镀锌钢管生产线，并配有全套国内先进的质量控制和检测系统，以优质碳素结构钢为原料，有国标管、薄壁管、异型管三大系列上百个规格品种，年产量达30万吨以上，产品广泛应用于建筑、消防、燃气、水利、电力、通讯等领域。“金洲”牌热浸镀锌钢管和高频焊管以优秀的材质、精良的设备和成熟的工艺得到了广大用户的信赖，产品畅销全国26个省、市、自治区，并批量出口北美、西欧、北非、中东、亚洲和大洋洲的许多国家和地区。

金洲集团

KINGLAND PIPES GREEN CHANNEL

Zhejiang Kingland Pipe and Technologies Co.,Ltd. established in 1982, a core subsidiary of Kingland Group. With over 20-years of operations, it has already developed into one of China's largest pipe research and manufacturing bases. It is entered into "China's Torch Planning Hi-Tech Enterprises", and "100 Largest Enterprises in Zhejiang Province". It was also assessed as "Excellent Managed Enterprise", "Five In Passel Enterprise" and "Most Important Enterprise" by the government of the county, province, city in turn. It produces "Kingland®" Hot Dipped Galvanized Steel Pipe, Electric Resistance Welded Steel Pipe, Polyethylene-lined Steel Pipe. It is certified as "ISO9001:2000 Quality Management System. It is awarded as "Zhejiang Famous Product". "Kingland" Trademark is awarded as "China Famous Trademark" and "Zhejiang Famous Trademark".

It owns 11 electric resistance welded pipe and hot-dipped galvanized pipelines, equipped with full sets of modern quality control and testing systems. It can produce nearly 100 sizes and kinds of pipes including GB standard, thin-wall pipes, Section Tube with high-quality carbon structural steel as its raw material. The annual output is more than 300,000 tons. The products is widely applied in buildings, fire fighting, gas, water conservancy, electric power, communication realms and so on. "Kingland" products is trusted by its customers with high-quality materials, sophisticated equipment, and mature manufacturing process. It is well-sold in 26 provinces and autonomous regions in China, and North America, West Europe, North Africa, Middle East, Asia, and Oceania's many countries and areas.



Pipe Production Line



纵剪机组 Shearing Unit



焊管车间 Welding Pipe Workshop



卧式活套 Horizontal Accumulator



热浸镀锌 Hot-dip Galvanize

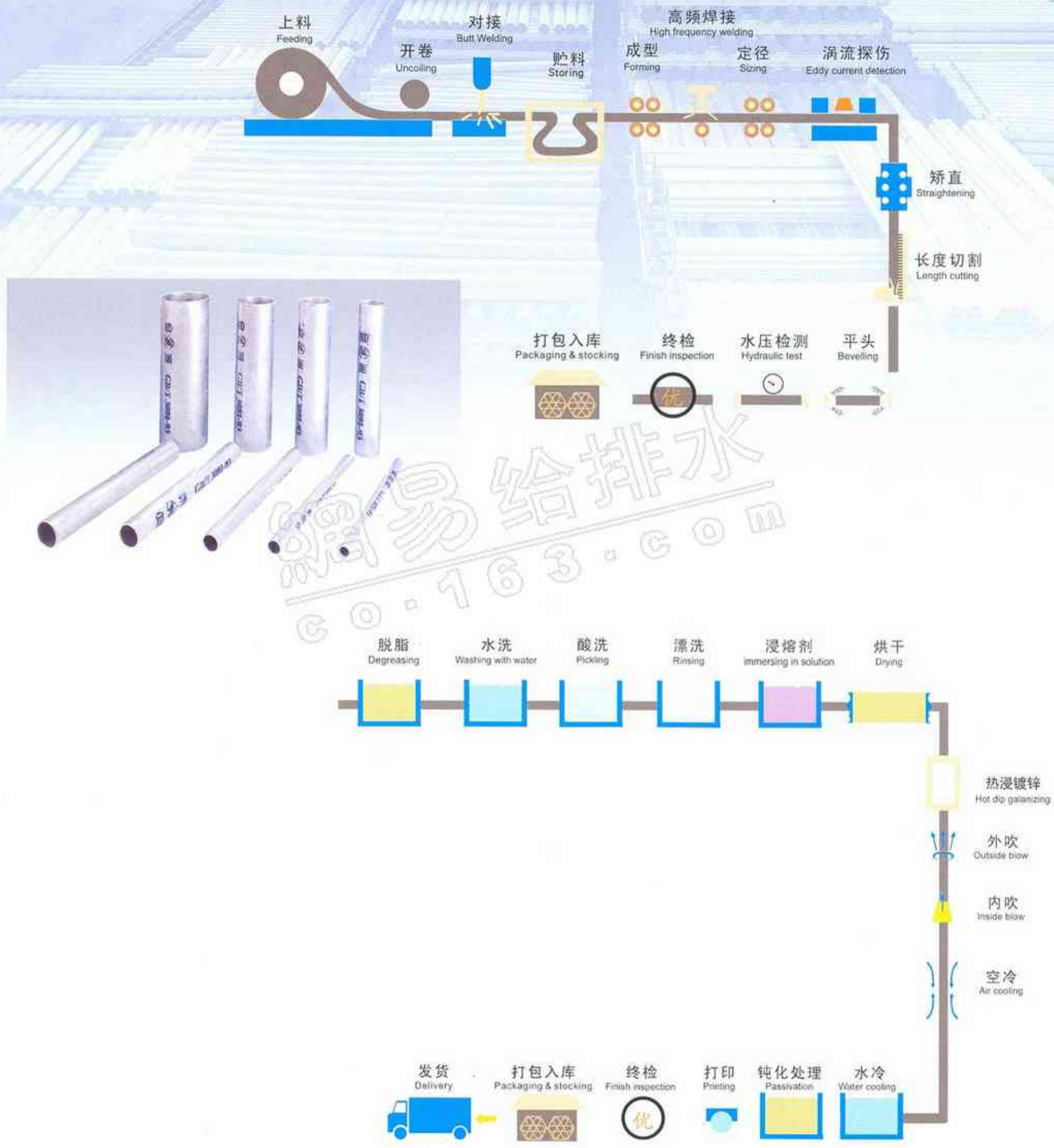


高频焊接 High Frequency welding



成品出厂 Products Leave Factory

工艺流程 PROCESS CHART



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Size And Kinds

英国标准BS1387-1985焊接钢管或BS21螺纹钢管

BS1387-1985, British Standard for welded steel pipe, or BS 21 for threaded steel pipe

公称尺寸 Nominal Size		壁厚(毫米) Wall Thickness (mm)			外径(毫米) Outside Diameter(mm)						重量(黑管)千克/米 Weight(Black pipe)kg/m 平头 Pian End 参考值 Reference number			螺纹 Thread	
					最大 Max.			最小 Min.							
毫米 mm	英寸 inch	A	B	C	A	B	C	A	B	C	A	B	C	每英寸扣数 Thread number per inch	有效长度 Length of pipe(mm)
15	1/2	2.0	2.6	3.2	21.4	21.7	21.7	21.0	21.1	21.1	0.947	1.21	1.44	14	13.2
20	3/4	2.3	2.6	3.2	26.9	27.2	27.2	26.4	26.6	26.6	1.38	1.56	1.87	14	14.5
25	1	2.6	3.2	4.0	33.8	34.2	34.2	33.2	33.4	33.4	1.98	2.41	2.94	11	16.8
32	1-1/4	2.6	3.2	4.0	42.5	42.9	42.9	41.9	42.1	42.1	2.54	3.10	3.80	11	19.1
40	1-1/2	2.9	3.2	4.0	48.4	48.8	48.8	47.8	48.0	48.0	3.23	3.57	4.38	11	19.1
50	2	2.9	3.6	4.5	60.2	60.8	60.8	59.6	59.8	59.8	4.08	5.03	6.19	11	23.4
65	2-1/2	3.2	3.6	4.5	76.0	76.6	76.6	75.2	75.4	75.4	5.71	6.43	7.93	11	26.7
80	3	3.2	4.0	5.0	88.7	89.5	89.5	87.9	88.1	88.1	6.72	8.37	10.3	11	29.8
100	4	3.6	4.5	5.4	113.9	114.9	114.9	113.0	113.3	113.3	9.75	12.1	14.5	11	35.8
125	5	--	5.0	5.4	--	140.6	140.6	--	138.7	138.7	--	16.6	17.9	--	--
150	6	--	5.0	5.4	--	166.1	166.1	--	164.1	164.1	--	19.7	21.3	--	--

- A级管壁厚允差-8%
Wall thickness tolerance of Class A pipes: -8%
- B级、C级管壁厚允差-10%
Wall thickness tolerance Class B&C pipes: -10%

- A-轻级(棕色带)
A-Light gauge(Brown)
- B-中级(蓝色带)
B-Medium gauge(Blue)
- C-重级(红色带)
C-Heavy gauge(Red)

- 成品长度公差为+20mm/0, 客户要求长度公差也可按+6mm/0执行
Length tolerance of pipes: +20mm/0 or according to the customers requirement +6mm/0

- 所有钢管均进行在线涡流探伤检验, 涡流探伤按GB/T7735-1995 《钢管涡流探伤检验方法》 A级标准执行
The on-Line eddy current testing for all kinds of steel pipes is in accordance with Class A of GB/T 7735-1995 The method of eddy current test for steel pipes.

中国国家标准GB/T 3091-2001低压流体输送用(镀锌)焊接钢管

Galvanized welded steel pipe to GB/T 3091-2001 for low pressure liquids conveying

公称尺寸 Nominal Size		外径(毫米) Outside Diameter(mm)		普通钢管 Ordinary steel pipe			加厚钢管 Extra thick steel pipe		
英寸 Inch	公称尺寸 Nominal Size	允差 Tolerance	壁厚 wall thickness	允差 Tolerance	理论重量(黑管) Theoretic weight(kg/m) (black pipe)	壁厚 wall thickness	允差 Tolerance	理论重量(黑管) Theoretic weight(kg/m) (black pipe)	
1/2	21.3	±0.50mm	2.80	±12.5%	1.28	3.50	±12.5%	1.54	
3/4	26.9	±0.50mm	2.80	±12.5%	1.66	3.50	±12.5%	2.02	
1	33.7	±0.50mm	3.20	±12.5%	2.41	4.00	±12.5%	2.93	
1-1/4	42.4	±0.50mm	3.50	±12.5%	3.36	4.00	±12.5%	3.79	
1-1/2	48.3	±0.50mm	3.50	±12.5%	3.87	4.50	±12.5%	4.86	
2	60.3	±1%	3.80	±12.5%	5.29	4.50	±12.5%	6.19	
2-1/2	76.1	±1%	4.00	±12.5%	7.11	4.50	±12.5%	7.95	
3	88.9	±1%	4.00	±12.5%	8.38	5.00	±12.5%	10.35	
4	114.3	±1%	4.00	±12.5%	10.88	5.00	±12.5%	13.48	
5	139.7	±1%	4.00	±12.5%	13.39	5.50	±12.5%	18.20	
6	168.3	±1%	4.50	±12.5%	18.18	6.00	±12.5%	24.02	
8	219.1	±0.75%	4.0-6.0						

注:根据需方要求,经供需双方协议,并在合同中注明,可供表中规定以外尺寸的钢管。

Note: Pipe not including in this table shall be supplied according to buyer's requirements, and shall be marked in the contract.

美国材料试验协会标准ASTM A53-1996 黑管和热浸镀锌焊接及无缝钢管

Black pipe, hot-dipped galvanized welded pipe and seamless steel pipe to ASTM A53-1996

公称尺寸 Nominal Size	外径(毫米) Outside Diameter(mm)	壁厚(毫米) Wall Thickness(mm)	重量级别 Weight Grade	系列号 Schedule number	A 级试验压力(Mpa) Grade A Test pressure	黑管重量(kg/m) Weight(Black pipe) 平头 Plain End
1/2	21.3	2.77	STD	40	4.83	1.27
3/4	26.7	2.87	STD	40	4.83	1.69
1	33.4	3.38	STD	40	4.83	2.50
1-1/4	42.2	3.56	STD	40	8.27	3.39
1-1/2	48.3	3.68	STD	40	8.27	4.05
2	60.3	3.91	STD	40	15.86	5.44
2-1/2	73.0	5.16	STD	40	17.24	8.63
3	88.9	5.49	STD	40	15.31	11.29
4	114.3	6.02	STD	40	13.10	16.07

- 壁厚允差-12.5%

Wall thickness tolerance: -12.5%

- STD为标准重量级,也可供薄壁管及厚壁管

STD is the standard weight grade, and also for light pipe

- 镀锌管锌层平均重量≥550克/平方米

Average weight of zinc coating of galvanized pipes > 550g/m²

- 成品长度允差为+20毫米/0

Length tolerance of pipe: +20mm/0

Comparison of Performance

热镀锌钢管与传统冷镀锌钢管比较

Comparison between hot dip galvanized steel pipe and traditional electroplated steel pipe

管材 Pipe material	产品镀层结构及性能 Structure and performance of plating	备注 Remark
热镀锌钢管 Hot dip galvanized steel pipe	钢管基体与熔融的镀液发生复杂的物理、化学反应，形成耐腐蚀的结构紧密的锌-铁合金层。合金层与纯锌层、钢管基体融为一体。故其耐腐蚀能力强。 There is a complicate physical and chemical reaction between the base of steel pipe and melted galvanization liquid,a zinc-iron alloy layer which is anticorrosive and possesses tight structure is formed,the alloy layer integrates with pure zinc and the base of steel pipe,so it is of god anticorrosion.	可用于建筑工程给水管道 Suitable for water supply in construction engineering
传统冷镀锌管 Traditional electroplated steel pipe	锌层是电镀层，锌层与钢管基体独立分层，锌层很薄，故其耐腐蚀性能差。 Zinc layer is plating,and independent of the base of steel pipe,the zinc layer which is thinner, shed off and has bad anticorrosion.	在新建住宅中，禁止使用冷镀锌钢管作为给水管 The electroplated pipe is prohibited to be used in water supply in new-built residential buildings.

金洲热镀锌钢管与其它管材性能比较

Comparison of performance between the hot dip galvanized pipe and other pipe

管材 Pipe material	项目 Item	材料 Material	使用压力 Working pressure	暴晒及辐射 Insolation and radiation	耐温 Working temperature	机械强度 Mechanical strength	价格 Price
金洲牌热镀锌钢管 "Kingland" hot dip galvanized steel pipe		碳钢/锌 CS/Zinc	3.0Mpa	不影响管道寿命 No influence pipe life	适合冷热水 Suitable for hot and cold water	刚性管道 Rigid pipe	适中 Medium
金洲牌钢塑复合管 Kingland steel-plastic compounded pipe		碳钢/锌/环氧(聚乙烯) CS/Zinc/epoxy(PE)	3.0Mpa	不影响管道寿命 No influence pipe life	分冷、热水管道 According to heat and cold water pipe	刚性管道 Rigid pipe	较高 High
铝塑管 Aluminium-plastic pipe		塑料/铝 Plastic/Aluminium	1Mpa	加速塑料老化 Quicken ageing of plastic	分冷、热水管道 According to heat and cold water pipe	柔性管道 Pliable pipe	较低 Low
塑料管 Plastic pipe		塑料 Plastic	1Mpa	加速塑料老化 Quicken ageing of plastic	分冷、热水管道 According to heat and cold water pipe	柔性管道 Pliable pipe	较低 Low

注：管道系统压力选择必须考虑钢管壁厚及法兰、阀门、卡箍等配套件的允许用压力等因素。

Working pressure of pipe system is determined by wall thickness and allowable pressure of flange, valve and sockets.

施工提醒

锌对钢铁基体的阳极保护作用众所周知。热浸镀锌钢管表面的纯锌层在大气环境中能生成一层致密的、钝化性的碱式碳酸锌($Zn_2(OH)_2CO_3$)保护膜进一步阻止了锌的被腐蚀。热浸镀锌钢管的镀锌层厚度达 $50\mu m$ 以上，可以在合理的环境中安全使用30年。值得注意的是“在合理的环境中”使用。由于锌是一种较活泼的两性元素与酸碱均起反应，也可以置换盐类中的重金属离子，所以在潮湿的酸碱或盐类介质环境中镀锌层易遭受破坏，导致腐蚀穿孔。

欲将热浸镀锌钢管埋入墙内或地下(如起居室卫生间内)，建议您对被埋入部份的钢管表面进行处理(如涂一层沥青漆、环氧类漆或槽封)，以隔绝介质与锌层的直接接触，用中性干燥的泥砂回填为宜。

Attention during installation

It is well known that zinc has positive pole protective effect on the base of steel pipe. The pure zinc layer on the surface of hot dip galvanized steel pipe can taatmosphere generate a tight and passivated $[Zn_2(OH)_2CO_3]$ film which can further prevent zinc from corrosion. The hot dip galvanized steel pipe which thickness of the galvanization layer is above $50\mu m$, can be safely used for 30 years in reasonable environment. Please pay attention to 'reasonable environment', as zinc is a relatively active amphoteric element which can react on acid and alkali,and also can replace the heavy metal ions of salt, the galvanization layer is easy to suffer from destruction and to be holed by corrosion in moisture environment with medium of acid, alkali or salt.

If hot dip galvanized steel pipe is intended to be buried in wall or underground(toilet of living room)it is suggested that the buried surface of the steel pipe be processed (such as coated with bitumen, epoxy paint or covered with channel) so as to prevent galvanization layer from direct contact with medium, It is better to be refilled with dry neutral earth.

KINGLAND PIPES GREEN CHANNEL

质量 保 证 QUALITY GUARANTEE



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产品检测报告 Test Report

序号	检测项目	检测标准	检测结果	判定
1	外观	GB/T 15481-2009	合格	合格
2	尺寸	GB/T 15481-2009	合格	合格
3	重量	GB/T 15481-2009	合格	合格
4	力学性能	GB/T 15481-2009	合格	合格
5	化学成分	GB/T 15481-2009	合格	合格
6	无损检测	GB/T 15481-2009	合格	合格
7	水压试验	GB/T 15481-2009	合格	合格
8	弯曲试验	GB/T 15481-2009	合格	合格
9	冲击试验	GB/T 15481-2009	合格	合格
10	硬度试验	GB/T 15481-2009	合格	合格

Certificate of Enterprise Honour



产品应用

PROJECT APPLICATION



Quality Evaluation from Nuclear Industry Construction Company

本公司的管道产品被用于上海东方明珠电视塔、金茂大厦、杭州新客站、国家电力调度中心、亚运村高档住宅小区等重点工程，受到了用户的好评！

The product of Kingland has been applied in many major national projects including Shanghai OTV Tower, Jinmao Mansion (Apex Skyscraper in Shanghai), New Railway Station in Hangzhou, National Power Control Center and Uptown of Asia Sport Village, and has been most applauded by all of these clients.

用户质量意见书

浙江金洲集团股份有限公司：

我公司自 2000 年 2 月份以来向贵公司订购热镀锌钢管 500 余吨，用于泰山核电站建设工程。一年来贵公司能够在有效的质量管理体系的控制下进行生产，满足质量管理体系 CAN-CSAZ.299.3-85 的要求，产品质量符合 GB/T3091-93 标准要求。

我公司对贵公司重合同、守信誉、保质保量、供货及时和良好的售后服务表示衷心的感谢！希望今后双方继续积极配合，预祝合作愉快！

金洲管道畅销全国 26 个省、市、自治区，并批量出口西欧、北美、中亚、中东、北非、大洋洲等世界各地。

中国核工业第三建设公司
泰山核电站项目
2001 年 2 月 8 日

Kingland pipes can find a ready market in 26 provinces, cities, autonomous regions of China, and have been exported all over the world, include in the Western European Union, North America, Central Asia, Middle East, North Africa, Oceania etc.

近年销售量 Sale volume of late years

