

# CANGZHOU KH FITTINGS CORP.

Chinese Premier Stainless Steel Pipe Fittings & Valves  
Manufacturer

---



*Choosing KH is bound to succeed!*



# Content Overview



## 01 Company Profile

Corporate overview, culture, evolution, competitive advantages, leadership, certifications, equipment, and recognition.

Pages 1-8



## 02 Products And Market

Product profile, application industries, and global market presence, human resources.

Pages 9-26



## 03 Production Process

Precision casting and machining process.

Pages 27-28



## 04 Quality Management System

Material quality control, quality testing processes, and digital ERP systems.

Pages 29-33

# 01 Company Profile



**KH** 坤兴管阀  
FITTINGS & VALVE

## Chinese Premier Stainless Steel Manufacturer

Cangzhou KH fittings corporation specializes in high-quality stainless steel pipe fittings and valves manufacturing, with a commitment to precision, quality, and global standards compliance.

### Establishment Time

 KH established in 2002, WIN-VIET established in 2018.

### International Certification

 ISO9001, PED2014/68/EU, ISO14001, ISO45001, IATF16949, BSCI and more.

### Manufacturing Excellence

 The designed production capacity is 200 tons/month for casting and 300 tons/month for machining at KH. The designed capacity is 180 tons/month for casting and 240 tons/month for machining at WIN-VIET.

### Global Market Presence

 Serving Europe, Africa, Asia and America with high quality products

### Customer-Focused Innovation

 Customer-driven R&D with 6% revenue investment

"Choosing KH is bound to succeed!"



# Corporate Culture

Integrity, Pragmatism, Persistence, Innovation



## Corporate Mission

To develop the precision casting business and serve the stainless steel pipeline field.

## Corporate Vision

To be the world leader in the field of stainless steel pipeline manufacture.

## Corporate Social Responsibility

Co-creating sustainable value with all stakeholders

## Quality Policy

Product quality is a matter of survival;a miss is as good as a mile;customer satisfaction is paramount;preserve to perfection.

# Advanced Production Equipment



Equipment Name	Quantity	Equipment Name	Quantity
Injection machines	14	Tapping Machines+Milling Machines+Drilling Machines	12+1+3
Float Sand Machines	18	Industrial Robots+Machining Centers	7+7
Shell Drying Lines	12	Lathes	87
Dewaxing Kettles	2	Automatic Clean Lines	3
Intermediate Frequency Machines	4	Sandblasters	1
Calcinators	4	Pipe Cutting Machines+Automatic Pipe Cutting and Processing Machine+Sawing Machines	3+3+7
Cutting+Grinding+Shaping Machines	6+8+2	Valves assembly lines	2
Shot-Blasting Machines	19	Laser Marking Machines+Inkjet Printers+Wrapping Machine	2+3+1

# Advanced Production Equipment

## 1. CNC



## 2. Industrial Robots



## 3. Machining Centers



## 4. Valve Assembly Instrument



## 5. Wax Injection Machines



## 6. Sawing Machines



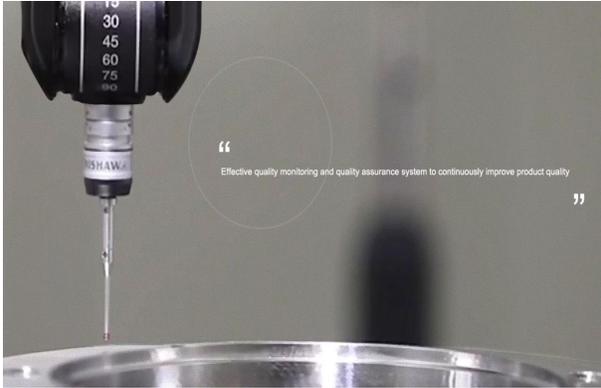
# Advanced Testing Equipment



<b>Equipment Name</b>	<b>Quantity</b>	<b>Equipment Name</b>	<b>Quantity</b>
<b>Coordinate Measuring Machine</b>	<b>1</b>	<b>Metallographic Tester</b>	<b>1</b>
<b>Tensile Testing Machine</b>	<b>1</b>	<b>Spectrum Analyzers</b>	<b>2</b>
<b>Hardness Tester</b>	<b>1</b>	<b>Valve leak test machines</b>	<b>3</b>
<b>Impact Sample Notch Projector</b>	<b>1</b>	<b>Impact Test Low Temperature Tank</b>	<b>1</b>
<b>Impact Testing Tester</b>	<b>1</b>	<b>Angular Inspection Benchers</b>	<b>2</b>

# Advanced Testing Equipment

## 1. Coordinate measuring machine



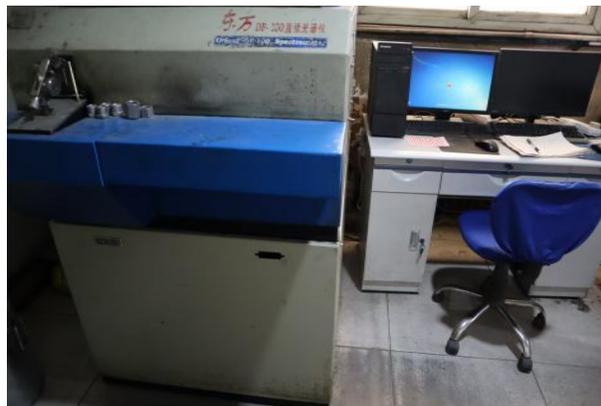
## 2. Impact testing machine



## 3. Valve leak test machine



## 4. Spectrum analyzer



## 5. Tensile strength tester



## 6. Brinell hardness tester



## 02 Product Profile

- High-precision investment cast components manufactured with advanced mold technology. Available in stainless steel, carbon steel, and specialty alloys for various industrial applications.



**Casting parts**



**Pipe fittings**



**Valves**



**OEM products**

- High-quality valve solutions including 1pc/2pc/3pc ball valves and check valves. Features include PTFE seals, latch lock handles, and mounting pad options with pressure ratings from 200-2000 W.O.G.

- Comprehensive range of pipe fittings made from pipe processes. Available in sizes from 1/8" to 6" with various thread standards including ISO, ASME, and DIN specifications.

- Custom-engineered solutions developed by our experienced team using advanced development tools and software. We welcome OEM projects for all standards with specialized expertise in investment casting.

## 02 Product Profile

- ⚙️ The automotive parts are of high performance, strong safety and long lifespan, and are suitable for repair, maintenance, modification and upgrading. Our automotive parts are of high quality and we have collaborated with many well-known car brands, including Mercedes-Benz and Audi.



### Quick Couplings

- 🔗 Quick Coupling of our company excel with their fast, tool-free operation, significantly saving time and labor costs, while offering secure, leak-proof connections for easy maintenance, ultimately boosting efficiency and reducing long-term operational expenses.



### Auto Parts



### Sanitary Unions

- ✈️ The sanitary grade of our company is designed with aseptic principles, which can prevent contamination and is resistant to corrosion. It is mainly applied in industries with strict hygiene requirements such as food and beverage processing, pharmaceuticals, and bioengineering, ensuring the safety and residue-free nature of fluid transportation.

# Casting Parts

## Cast Pipe Fittings Specifications

### Design Standard

- ISO4144
- SP-114
- ANSI
- JIS
- KH STANDARD
- EN10241

### Casting Standard

- ASTM A351/A351M-24(CF8/CF8M,etc.)
- EN10213-2016
- JIS G5121(2003)
- ASTM A747/A747M

### Thread Types

- ISO7/1 (BSP/DIN2999)
- ASME B1.20.1 (NPT)
- ISO 228

### Size Range

- 1/8" - 6"

### Pressure Rating

- 150LBS / 3000LBS/6000LBS,ETC.



- ✓ Investment casting process ensures superior surface finish and dimensional accuracy

# Premium Pipe Fittings Made From Pipe



## Design Standards

- DIN2986 / DIN2982
- SCH10-SCH80



## PIPE MATERIAL STANDARD

- ASTM A312 (TP304/L, TP316/L,ETC.)
- GB/T 700-2006: Q235B
- EN10216-5:2021 (1.4301,1.4307,ETC.)
- EN10217-7:2021 (1.4301,1.4307,ETC.)



## Size Range

- 1/8" to 6" with different lengths



## Thread Types

- ISO 7/1 (BSP/DIN2999)
- ASME B1.20.1 (NPT)
- ISO 228



## Pressure Ratings

- 150 LBS    3000 LBS    6000LBS

# Advanced Valve Solutions

Our comprehensive range of high-precision valve solutions combines advanced engineering with premium stainless steel materials to deliver exceptional performance and reliability.

## Product Range

- ✔ Ball Valves:  
1-piece 2-Piece 3-Piece
- ✔ Butterfly Valve
- ✔ Check Valves,ETC.

## Key Features

**Thread Standard Compliance:** ASME B1.20.1(NPT), DIN 2999 & BS 21, ISO 228/1 & ISO 7/1

**Manufacturing Process:** Investment casting with PTFE seal & packing

**Optional Features:** Latch lock handle, Mounting pad tapping

**Pressure Rating:** 200-2000 W.O.G. (Water, Oil, Gas)



## Applications

 Water Systems

 Oil & Gas

 Industrial Processing

 Chemical Transport

# Custom OEM Solutions

## Investment Casting Excellence



### Premium Materials

Specialized in stainless steel, carbon steel, and alloy materials for diverse applications.



### Advanced Mold Development

Cutting-edge mold design and development processes to ensure precision and consistency.



### Expert Engineering Team

Experienced specialists dedicated to solving complex manufacturing challenges.



### Advanced Design Tools

State-of-the-art software and development tools for precise product engineering.



### All Standards Compliance

Adaptable manufacturing to meet all international standards and specifications.



### 💡 Our OEM Advantage

WIN-VIET's investment casting technology delivers exceptional precision for custom components, with capabilities to handle complex geometries and specialized requirements.

 Your Design, Our Precision

# Quick Coupling



## Basic Concept

Quick Coupling is a rapid connection and disconnection device for pipes or tubing. It achieves a sealed connection through simple push-in, twist, or snap-in actions, requiring no tools or threaded tightening. It is widely used in industrial fields such as pneumatic, hydraulic, and fluid transfer systems.

## Key Features

### Dimensions

- ANSI B16.3

### Ends Type

- ASME B1.20.1(NPT);DIN2999;BS2111;ISO228/1;ISO7/1;BSP

### Size

- 1/2"-4"

### Material

- ASTM A351-CF8M/1.4408;ASTM A351-CF8/1.4401;ASTM A216 WCB;
- AISI 304,304L,316L,316Ti



## **Advanced Mold Development**

Cutting-edge mold design and development processes to ensure precision and consistency.

## **Precision Casting**

Precision castings

We are IATF 16949 certified and can provide castings in different precision grades on demand - all precision requirements can be met (on demand). With full material traceability and statistical process control systems, we provide consistent quality products for a variety of critical automotive components, including but not limited to: Fuel system components, Exhaust system components and Steering and suspension components.

## **OEM Production**

We provide comprehensive customized solutions for automotive parts, ensuring every component perfectly matches your specific requirements. We support conversions from technical drawings, physical samples, or conceptual needs.

# Sanitary Production

## Sanitary Pipe Fittings



## Sanitary Valves



## Sanitary Butt Weld Pipe Fittings



# Core Competitive Advantages



## Based on quality management systems:

Our manufacturing excellence framework can safeguard your supply chain integrity。

## ERP big data management:

ERP-driven paperless intelligent control

100% verifiable quality traceability

## International vision and service:

Global market with experienced leadership, sale and R&D team , ensuring compliance and 24h agile response.

## Innovation and R&D:

Customer-driven R&D: 6% revenue

Developing 100+ new products annually

## Responsibility and dedication:

PED/ISO:9001/ISO:14001/ISO:45001/IATF16949-certified sustainability practices,

Delivering 10-year quality commitments and zero-defect reliability

Building trust through reliability and accountability

# Human Resources Excellence



## Professional Workforce & Expertise

- Total Personnel: Approx.300 workers
- Experience: Highly specialized team with years of precision manufacturing practice.



## Training & Quality Assurance

- Advanced Development
- Certified training on global standards: ISO 9001, PED, and IATF16949 for full accountability.



Our commitment to excellence begins with our people. Through rigorous training and clear quality standards, we ensure every team member contributes to our zero-defect reliability mission

# Human Resources Excellence

## Our People, Our Priority



### Welfare & Rights Protection

- Comprehensive Benefits: Premium holiday, festival, and diverse welfare programs.
- Labor Support: Active Union ensuring worker rights and a supportive community.



### Safety & Corporate Philosophy

- Safety-First Culture: Strict PPE policy and high-standard workplace safety
- People-First Core: Rooted in a culture of mutual respect and empowerment.



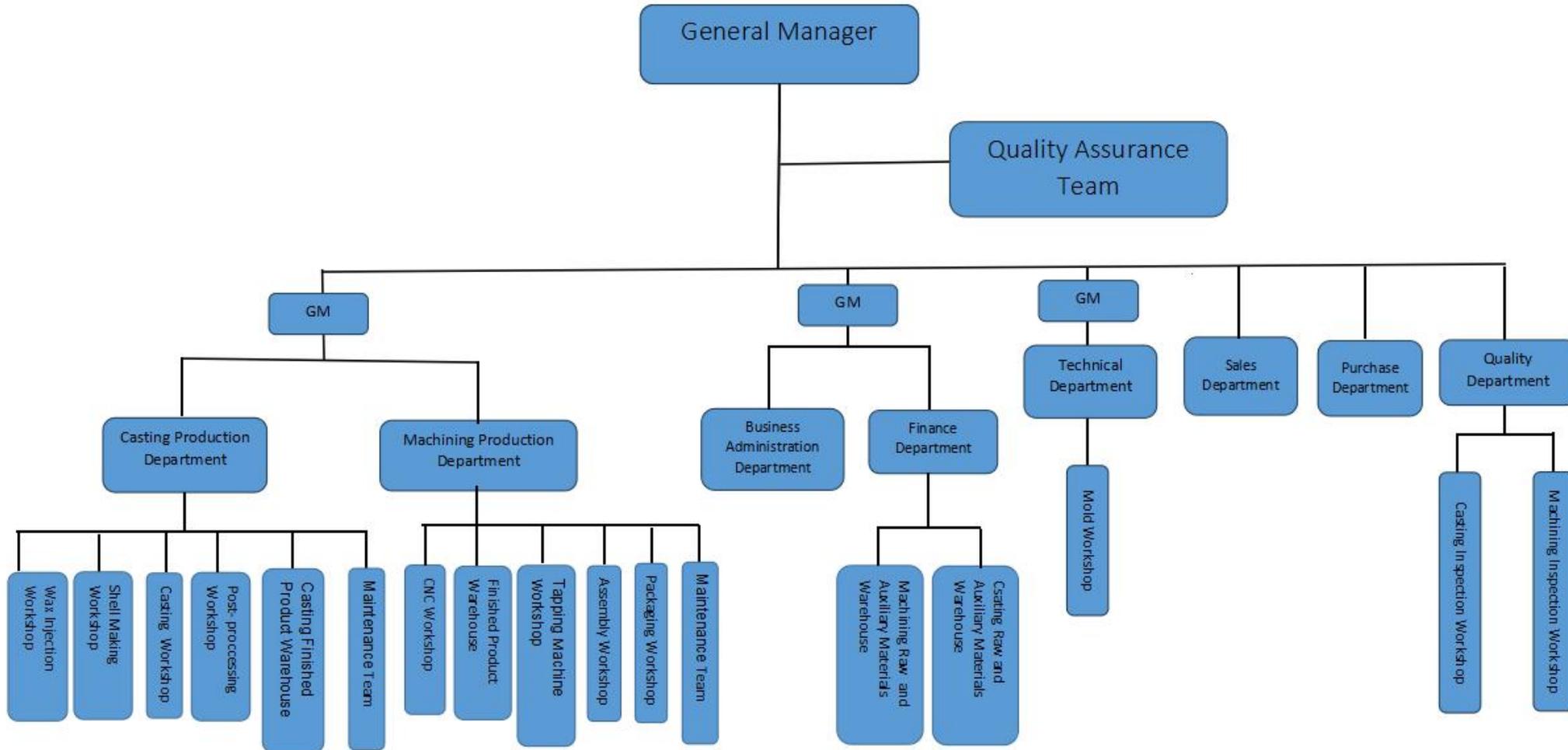
“

We build more than products; we build a safe and supportive community for every employee

# Organization Chart



## CANGZHOU KH FITTINGS CORP. Organization Chart



# Management Team

Professionalism and Efficiency

30+ Years Industry Experience



## ☰ Mr. Denny Wang

Chairman of the KH Group

+30 years of management experience in precision casting and machining industry



## 💡 Leadership Vision

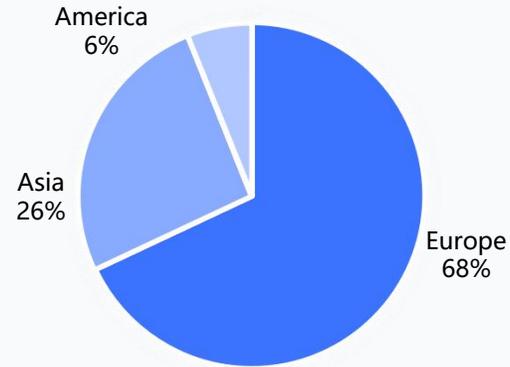
Under Management Team guidance, KH has established itself as world-class manufacturer of stainless steel pipe fittings and valves, committed to quality, innovation, and customer satisfaction.

# Market Distribution Analysis of KH

2025 Sales Data Breakdown by Region and Product Category



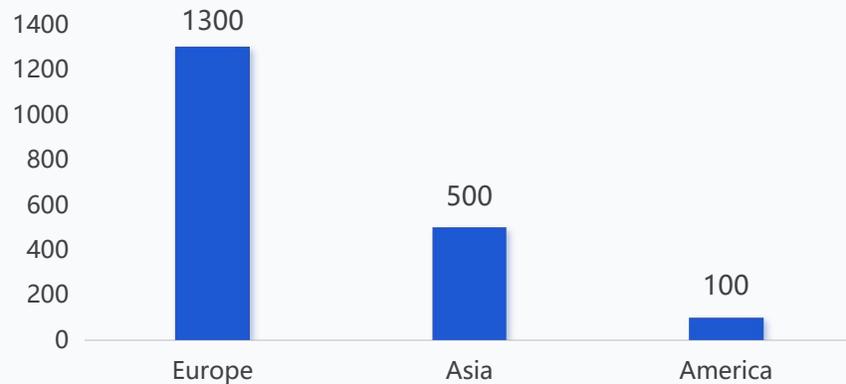
## Market Share by Region (%)



## Detailed Market Data

Market	Main Products	Volume (Tons)	Share (%)
Europe	150lbs S/S Pipe Fittings & S/S Valves	1300	68%
Asia	OEM products & S/S Valves	500	26%
America	150lbs S/S Pipe Fittings & S/S Valves	100	6%
<b>TOTAL</b>		<b>1900</b>	<b>100%</b>

## Sales Volume by Region (Tons)



## Key Market Insights

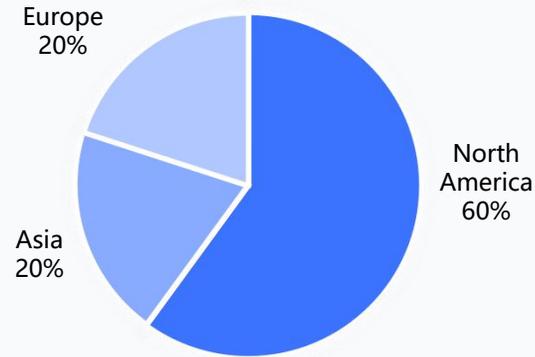
- 🌐 Europe represents our largest market at **68%** of total sales volume.
- 🏢 Asian markets account for **26%**, primarily driven by OEM products.
- 🌎 America market represents **6%** with growth potential in stainless steel pipe fittings.
- 📊 Total annual sales volume reached **1,900 tons** across all markets in 2025.

# Market Distribution Analysis of WIN-VIET

2025 Sales Data Breakdown by Region and Product Category



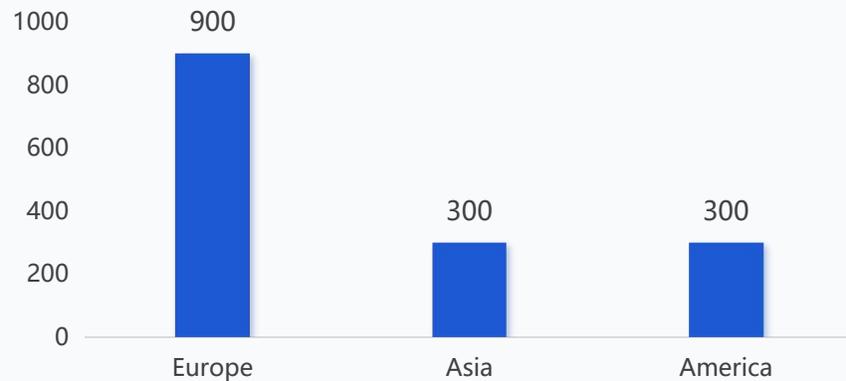
## Market Share by Region (%)



## Detailed Market Data

Market	Main Products	Volume (Tons)	Share (%)
North America	150lbs S/S Pipe Fittings & S/S Valves	900	60%
Asia	OEM products & S/S Valves	300	20%
Europe	150lbs S/S Pipe Fittings & S/S Valves	300	20%
<b>TOTAL</b>		<b>1500</b>	<b>100%</b>

## Sales Volume by Region (Tons)



## Key Market Insights

- 🌐 North America represents our largest market at **60%** of total sales volume.
- 🏭 Asia markets account for **20%**, primarily driven by OEM products.
- 🌍 Europe market represents **20%** with growth potential in stainless steel pipe fittings.
- 📊 Total annual sales volume reached **1,500 tons** across all markets in 2025.

# Application Industries

Versatile solutions serving diverse global sectors with reliability and precision

 Oil & Gas



 Chemical



 Water Treatment



 Food & Beverage



 Pharmaceutical



 Marine



 HVAC



 Power Generation



All products manufactured to international standards with comprehensive certifications

# International Certifications

## ISO 9001

Certified by Lloyd's Register

Manufacture of stainless steel investment castings and associated machining

 Valid: 17/January/2024-16/January/2027

## PED&PER/2016/1105/UK

Certified by Lloyd's Register

Design and manufacture of ball valves, check valves, Y-strainers

 Valid: 17 /January/ 2024-16/January/2027

## PED 2014/68/EU

Certified by Lloyd's Register

Design and manufacture of ball valves, check valves, Y-strainers

 Valid: 17/January/2024-16/January/2027

## AD2000 W0

Certified by Lloyd's Register

Carbon steel/stainless steel material for pressure equipment

 Valid: 9/August/2022-16/January/2027

## ISO 14001:2015

Certified by CNCA

Relevant environmental management activities

 Valid: 18/January/2024-17/January/2027

## IATF16949:2016

Certified by Lloyd's Register

Manufacture of stainless steel investment castings and associated machining.

 Valid: To 27/March/2027

## BSCI

Certified by Eurofins Consumer Products Assurance

Stainless Steel Fittings and associated machining

 Valid: 20/September/2024-20/September/2025

## CFR&GHG Verification

Certified by SEATION

Product Carbon Footprint, Greenhouse Gas Verification

 Valid: 2/January/2024-1/January/2027

## COC For Saudi Arabia

Certified by SGS Gulf Ltd ROHQ

Elbow, Tee, Cross, Coupling and Ball, gate, globecheck, Y-strainer

 Valid: 11/March /2024-11/March/2025

## ISO45001:2018

Certified by CNCA

Relevant occupational health and safety management activities

 Valid: 18/January/2024-17/January/2027



KH  
Certificates.pdf

# 03 Precision Casting Process



**KH** 坤兴管阀  
FITTINGS & VALVE

1

## Wax Pattern Creation

Precision injection molding of wax patterns using aluminum molds designed to exact specifications.

2

## Tree Assembly

Multiple wax patterns are attached to a central wax sprue to form a "tree" structure for efficient casting.

3

## Shell Building

Wax assemblies are dipped in ceramic slurry and coated with sand to create a hard shell mold.

4

## Wax Melting

The shell is heated in an autoclave to melt out the wax, leaving a hollow ceramic mold.

5

## Metal Pouring

Molten stainless steel or other alloys are poured into the preheated ceramic molds using induction furnaces.

6

## Shell Removal

After cooling, the ceramic shell is removed through mechanical vibration and high-pressure water blasting.

7

## Cutting & Finishing

Parts are separated from the tree structure, and gates are removed. Surface finishing operations include grinding and polishing.

8

## Quality Inspection

Comprehensive testing includes dimensional verification, material analysis, and surface inspection to ensure 100% quality.



### Key Advantages

- ✓ Superior dimensional accuracy
- ✓ Complex geometries possible
- ✓ Excellent surface finish
- ✓ Wide range of alloys supported
- ✓ 100% quality verification



production  
process.pptx

# Excellence

Precision manufacturing processes for superior quality products

## Pipe-Based Machining Process

### Raw Material Preparation

ASTM A312 stainless steel pipes cut to precision lengths

### CNC Machining

Automated precision turning and threading operations

### Thread Processing

ISO7/1, ASME B1.20.1 (NPT), and ISO 228 standard threads

### Dimensional Inspection

High-precision measurement of critical dimensions

### Surface Treatment

Finishing processes for corrosion resistance and appearance

 Conforming to DIN2986/DIN2982/EN10241 standards

## Casting-Based Machining Process

### Investment Cast Components

ASTM A351 stainless steel precision castings

### Pre-Machining Preparation

Surface cleaning and inspection before machining

### Multi-Axis CNC Processing

Complex machining operations for precise geometries

### Thread & Surface Finishing

Precision threading and surface quality enhancement

### Pressure Testing

Hydraulic and pneumatic testing for 150LBS to 3000LBS ratings

 Compliant with ISO4144/SP-114/ANSI/JIS/KH standards

# 04 Quality Management System

Comprehensive framework ensuring excellence across all operations



## Documentation & Records

Standardized working instructions, operating procedures, and complete traceability records ensuring 100% verifiable quality control.



## Equipment Control

Rigorous maintenance schedules, daily inspections, and status monitoring to ensure optimal equipment performance and reliability.

### 沧州坤兴不锈钢制品有限公司

#### 设备月度保养点检记录表

设备编号: KP-ZZ-05-SLJ

类别	保养项目	工序位置																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
日保	机台工作面涂擦砂光油	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	擦拭射蜡机并清除周围环境	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
	检查各部位油缸及接头是否漏油、漏水	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
	检查外漏电线是否破损	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
日保	补蜡液面控制组合是否动作正常	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		
	检查液压油、导热油液位是否在八分满	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		
	检查射蜡保护开关、压蜡器上限位开关、紧急停止开关是否正常工作	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
	压蜡器密封圈、补蜡器密封圈若有损坏及时更换	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
月保	冰水阀密封不严及时清洗或更换	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		
	油缸动作处请按月涂擦黄油润滑, 蜡缸及活瓣请勿上油	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
	检查各油压动作缸油封是否渗漏	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
	检查各螺丝是否松动	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
异常情况	检查液面冰水机油冷却水是否阻塞																																
	测试超温控制ECC是否正常跳脱																																
保养人签名		张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	
复核人签名		张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	张孟	

备注: 每天工作前都要对设备进行保养, 保养用“√”, “×”表示有异常情况, 异常情况请在“异常情况”栏记录并联系相关人员处理。  
 编制: 杨佳龙 审批: 张孟 批准: 王东强 日期: 2016年12月31日

# 04 Quality Management System

Comprehensive framework ensuring excellence across all operations



## Material Control

Comprehensive supplier evaluation, material verification, and traceability systems ensuring only certified high-quality materials enter production.



## Human Resources

Skilled workforce with continuous training programs, clear accountability systems, and performance evaluation processes.



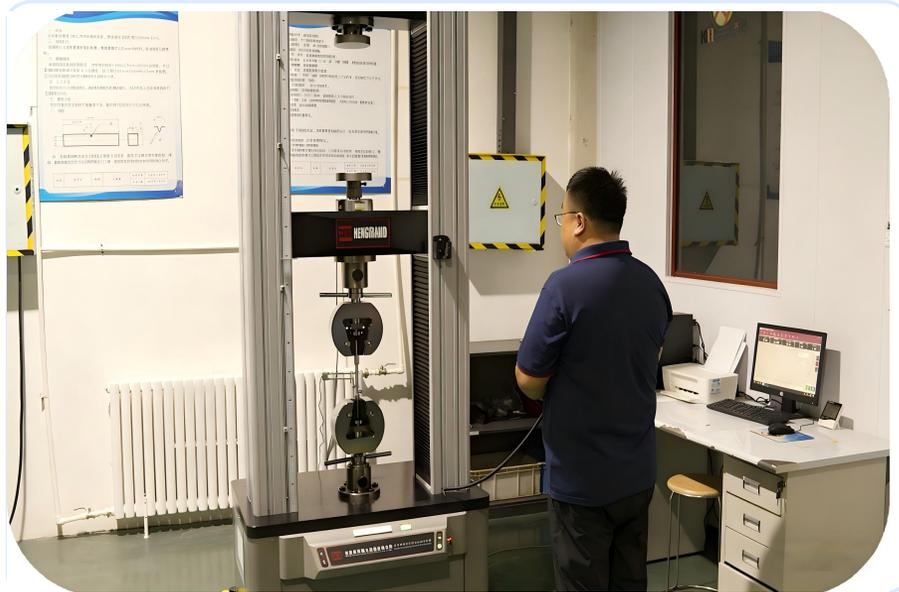
# 04 Quality Management System

Comprehensive framework ensuring excellence across all operations



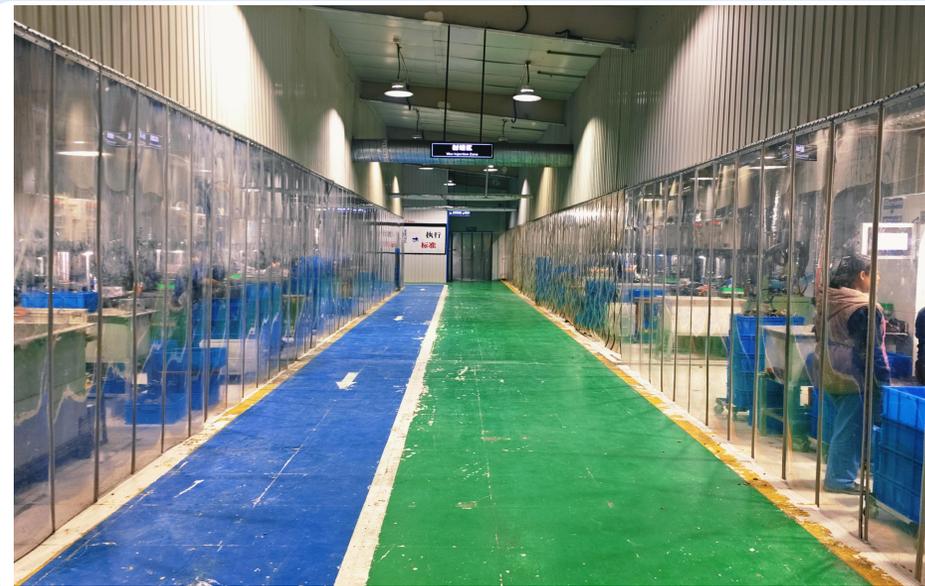
## Testing Processes

Multi-stage inspection protocol from incoming materials to final products, including spectrometer analysis, mechanical property testing, and pressure testing.



## 6S

6s management system helps to improve work efficiency. Reduce operating costs, ensure safe production, improve product quality, enhance corporate image and staff literacy culture development.



# Digital Transformation: ERP System

End-to-end digital management enabling real-time operations and data-driven decisions



**Process Efficiency**

- ✓ Automated work order flow
- ✓ Real-time progress monitoring
- ✓ Intelligent scheduling optimization

**Quality Traceability**

- ✓ End-to-end data archiving
- ✓ Defect root cause analysis
- ✓ 100% verifiable quality records
- ✓ Regulatory compliance

**Cost Control**

- ✓ Precision inventory management
- ✓ Zero paper costs
- ✓ Resource optimization

**Decision Intelligence**

- ✓ Real-time alert system
- ✓ Operational dashboards
- ✓ Predictive analytics

**Supply Chain**

- ✓ Supplier performance monitoring
- ✓ Integrated communication
- ✓ Collaborative forecasting

**Sustainability**

- ✓ Carbon footprint reduction
- ✓ Audit compliance
- ✓ Resource optimization

# Contact Information

"Choosing KH is bound to succeed!"



## Website

[www.Stainlessfittings.com.cn](http://www.Stainlessfittings.com.cn)



## Phone/Fax

Hotline (for international) : +(86)-13703176300  
Tel: 86-317-3093636 / Tel/Fax:86-317-5533029



## Email

[ok@czfittings.cn](mailto:ok@czfittings.cn)



## LinkedIn

<https://www.linkedin.com/company/108112577/admin/dashboard/>



## Address

No. 31 and 52, E Jiuhe Road, Economic Development Zone of Cangzhou City, Hebei Province, People's Republic of China.

**Thank You for Your Interest!**

We look forward to serving your precision stainless steel requirements