



SHIJIAZHUANG JINGCHENG STAINLESS STEEL PRODUCT CO.,LTD

# COMPANY INTRODUCTION

Since 2006

[www.jingchengcasting.com](http://www.jingchengcasting.com)



**1**

**COMPANY INTRODUCTION**

# COMPANY INTRODUCTION



**Foundry**



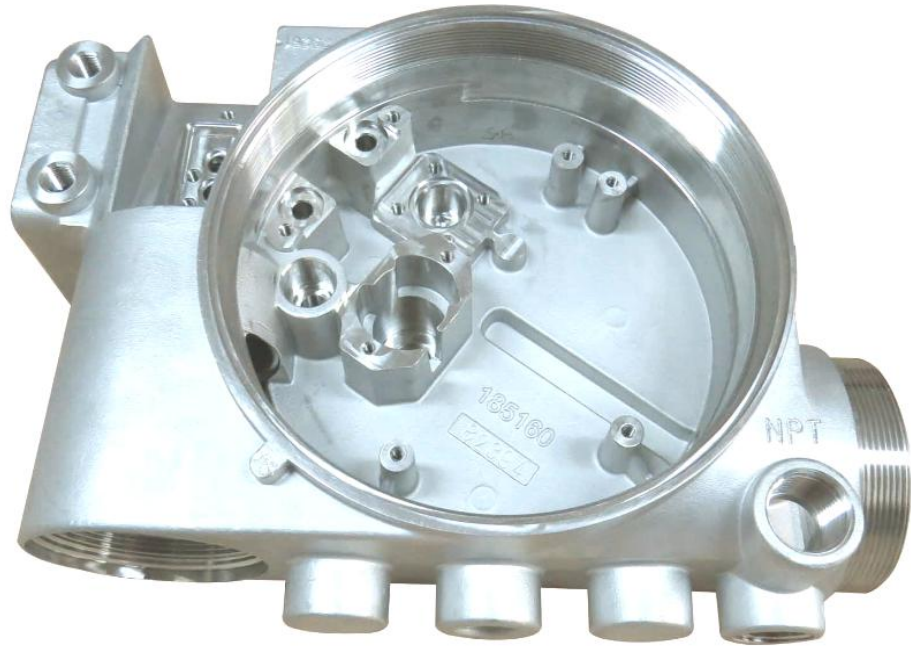
**Machining shop**



**New production base is coming  
Start production at 2018**



## COMPANY INTRODUCTION



Shijiazhuang Jingcheng (JC) Stainless Steel Products Co., Ltd. was founded in 2006, is a advanced manufacturer of high-precision, high-complexity and mission-critical casting and machined components, we are specialize in silica sol investment casting and machining, pouring over 100 different alloys . The products are widely used in Automobile, Machinery, Aviation, Medical, Fluid Technology and more other fields.

- ✓ Time to establish: Year 2006
- ✓ Registered capital: 5.5 Million (RMB)
- ✓ Sales revenue: 17.3 Million (USD , Y2016)
- ✓ Employee: 450

## PRODUCTION CAPABILITY

### Foundry

Covering: 23,000 m<sup>2</sup>  
Final Product: 100-150 tons/month

### Machining shop

PC: 100,000-200,000 pcs/month



### New Production Base is coming

(Including Machining Shop)

Covering: 100,000 m<sup>2</sup>

Final Product : 200-250 tons/month

# PRODUCTION FLOW CHART



Wax pattern



Tree Assembly



Shell Making

# PRODUCTION FLOW CHART



Dewaxing



Pouring



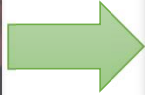
Spectrum Analysis



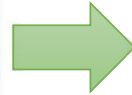
# PRODUCTION FLOW CHART



Heat Treatment



Surface Treatment



Machining



# HEAT TREATMENT



Heat Treatment	Material	Mechanical Properties				
		Tensile Strength $\sigma_b$	MPA $\sigma_{0.2}$	Elongation	Hardness	Note
		(Rm) (Mpa)	(Rp0.2) (Mpa)	(A) (%)		
Solution Treatment	CF8	≥485	≥205	≥35	22HRC max	
Solution Treatment	CF8M	≥485	≥205	≥30	22 HRC max	
Solution Treatment	304	≥485	≥205	≥35		
Solution Treatment	316	≥485	≥205	≥30	22 HRC max	
Solution Treatment	316L	≥485	≥205	≥30	22 HRC max	
Normalizing	1.0619	420-600	≥240	≥22		AKV>27J
860°CAnnealing	1.0503				207HB max	
860°CAnnealing	1.1191				207HB max	
860°CAnnealing	1.2717				250HB max	
860°CAnnealing	1.7225				241HB max	
860°CAnnealing	1.8519				248HB max	
Quenching	1.4122	≤950				
Quenching+Tempering	GX38CrMoV5-1				30-40 HRC	
Carburizing+Tempering	C43				165-215 HB	
Normalizing +Tempering	1.4027	590-790	≥440	≥12	170-240HB	



# 2

## QUALITY CONTROL

## QUALITY CONTROL



The core technology ensure high efficiency, high reliability of products, meanwhile cost effective. JC always adhere to improving production techniques and quality control. Take the criterion of delicacy management and lean production, by which establish complete quality management system. Received ISO9001, TS16949 and PED certification.

- ✓ Spectrum Analysis
- ✓ Hardness Test
- ✓ Metallographic Analysis
- ✓ Low Temperature Impact Test
- ✓ MT Test
- ✓ X-ray Test
- ✓ CMM Test

# MATERIAL INFORMATION



## Material Information

	ASTM	JIS	DIN	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V
				%	%	%	%	%	%	%	%	%	%
Stainless Steel	CF8	SCS13	1.4308	0.07	1.5	1.5	0.04	0.03	18.0-20.0	8.0-11.0		≤0.50	
	CF8M	SCS14	1.4408	0.07	1.5	1.5	0.04	0.03	18.0-20.0	9.0-12.0	2.0-2.5	≤0.50	
	304	SUS304	1.4301	0.07	1.0	2	0.045	0.015	17.5-19.5	8-10.5		N≤0.1	
	304L	SCS19	1.4306	0.03	1.0	2.0	0.045	0.015	18.0-20.0	10.0-12.0		N≤0.1	
	316	SUS316	1.4401	0.07	1.0	2	0.045	0.015	16.5-18.5	10.0-13.0	2.0-2.5	N≤0.1	
	316L	SCS16	1.4404	0.03	1.0	2.0	0.045	0.015	16.5-18.5	10.0-13.0	2.0-2.5	N≤0.1	
Carbon Steel	WCC		1.0619	0.18-0.23	0.6	0.50-1.20	0.03	0.02	0.3	0.4	0.12	0.3	0.03
	WCB			0.25	0.6	1	0.04	0.04	0.5	0.5	0.2	0.3	0.03
	LCC		1.6220	0.17-0.22	0.6	1.1-1.28	0.02	0.015	0.3	0.5	0.12	0.3	0.03
	WC6		1.7357	0.15-0.2	0.6	0.5-0.8	0.02	0.02	1-1.5	0.4	0.45-0.65	0.3	0.05
	C45		1.0503	0.42-0.50	0.4	0.50-0.80	0.045	0.045	≤0.40	≤0.40	≤0.10		
	C45E		1.1191	0.42-0.50	0.4	0.50-0.80	0.03	0.035	≤0.40	≤0.40	≤0.10		
Low Carbon Alloy Steel	G56NiCr MoV7		1.2717	0.50-0.60	0.10-0.40	0.65-0.95	0.03	0.03	1.00-1.20	1.50-1.80	0.45-0.55		0.07-0.12
	31CrMoV9		1.8519	0.27-0.34	0.4	0.40-0.70	0.025	0.035	2.30-2.70		0.15-0.25		0.10-0.20
	GX35CrMo17		1.4122	0.33-0.45	1.0	1.0	0.045	0.03	15.5-17.5	≤1.0	0.9-1.3		
	42CrMo4		1.7231	0.38-0.45	0.6	0.6-1.00	0.025	0.02	0.8-1.2	0.4	0.15-0.3	0.3	0.05
	16MnCr5		1.7131	0.14-0.19	0.4	1-1.3	0.035	0.035	0.8-1.1				



## Certificate

Standard: **ISO / TS 16949:2009**  
(2<sup>nd</sup> edition: 2009-06-15)  
 Certificate Registr. No. 01 111 074938  
 IATF Certificate No. 0245237


Certificate Holder: **Shijiazhuang Jingcheng Stainless Steel Product Co., Ltd.**  
 No. 4, Qianqiu West Road, Gaoyi County,  
 Shijiazhuang City, Hebei Province 051330, P. R. China  
 with remote location according to annex


Scope: **Manufacturing of Steel Investment Castings (Less than 60Kg)**


Proof has been furnished by means of an audit that the requirements of ISO / TS 16949:2009 are met.

Issue date/Expiry date: The certificate is valid from 2016-08-11 until 2018-09-14.

Release date: 2016-08-11

  
TÜV Rheinland Cert GmbH  
 Am Grauen Stein 51105 Köln  
 Germany

  
2-IAO-QMC 01003

  
www.tuv.com


**IATF 16949**

## Certificate

Standard: **GB/T 19001-2008/ISO 9001:2008**  
 Certificate Registr. No. 01 100 074938


Certificate Holder: **Shijiazhuang Jingcheng Stainless Steel Product Co., Ltd.**  
 Organization Code: 787045965  
 Registration Address: No. 4 Qianqiu West Road, Gaoyi County,  
 Shijiazhuang City, Hebei Province 051330, P. R. China  
 Operation Address: same as above  
 including the locations according to annex


Scope: **Manufacturing of Steel Investment Castings (Less than 60Kg)**


Proof has been furnished by means of an audit that the requirements of GB/T 19001-2008/ISO 9001:2008 are met.

Validity: The certificate is valid from 2016-11-09 until 2018-09-14.  
 This certificate information can be searched on CNCA official website <http://www.cnca.gov.cn>

2016-08-16

  
TÜV Rheinland Cert GmbH  
 Am Grauen Stein 51105 Köln

  
www.tuv.com

  
Precisely Right.


**ISO 9001**

## Zertifikat

**Qualitätsmanagement-System  
 für Werkstoffhersteller  
 nach Richtlinie 2014/68/EU**

Zertifikat Nr.: **01 202 CHWG-07 0271**

Name und Anschrift des Herstellers: **Shijiazhuang Jingcheng Stainless Steel Product Co., Ltd.**  
 No.4, Qianqiu Road, Gaoyi,  
 Shijiazhuang City, 051330,  
 Hebei Province, P.R.China

Hiermit wird bescheinigt, dass der Hersteller ein QM-System eingeführt hat und anwendet. Dessen wurde gemäß der Richtlinie 2014/68/EU, Anhang I, Kap 4.3 in Bezug auf die im Geltungsbereich genannten Werkstoffe einer spezifischen Überprüfung unterzogen.

Geprüft nach Richtlinie 2014/68/EU: **QM-System nach EN 754-5, Abschnitt 4.2 und AD 2000-Merkblatt W9**

Auditbericht Nr.: **CHWG-07 0271**

Geltungsbereich: **Herstellung von Stahlguss, siehe Anlage zum Zertifikat**

Fertigungsstätte: **Shijiazhuang Jingcheng Stainless Steel Product Co., Ltd.**  
 No.4, Qianqiu Road, Gaoyi,  
 Shijiazhuang City, 051330,  
 Hebei Province, P. R. China

Gültig bis: **28. Oktober 2019**

Köln, 07. November 2016

  
i. V. Dipl.-Ing. Oliver Trause

  
TÜV Rheinland Industrie Service GmbH  
 Heilicheim Straße 63, Ditzingen, Rheinland-Pfalz 55128  
 Am Grauen Stein, D-51105 Köln

  
www.tuv.com

  
Precisely Right.

**PED (Germany)**

# COMPANY INTRODUCTION



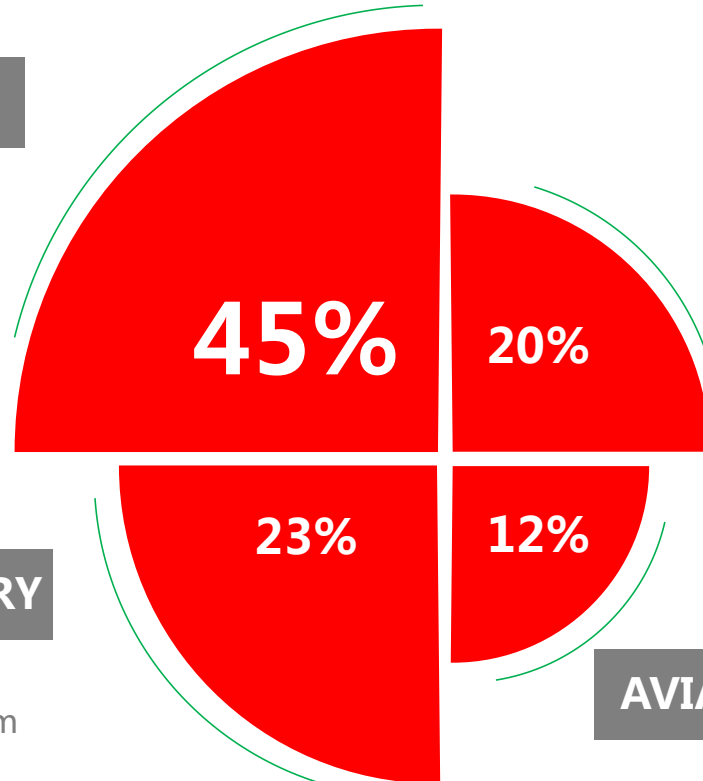
## AUTOMOBILE

- Components for gear box
- Components for exhaust system
- Sensor housing

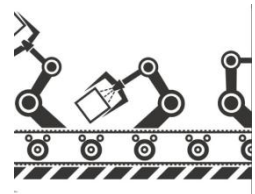


## PUMP & VALVE

- Valve housing
- Pump housing
- Impeller wheel
- Gas transportation system
- Quick coupling



## AUTOMATION & MACHINERY



- Knitting mechanism
- Clamping unit
- Rotor & Stator
- Sensor housing
- Automation customized product etc

## AVIATION & MEDICAL

- Components for loading system
- Components for catering system
- Medical diagnosis equipment
- Surgical instrument



# SALES PATTERN



USA

20%



EUROPE

55%

25%



ASIA-PACIFIC

