

Foshan Zeren Precision
Casting Co., Ltd.
Full Catalog

Investment Casting: Building The Future With Flawless Craftsmanship!

**Since 2009** 

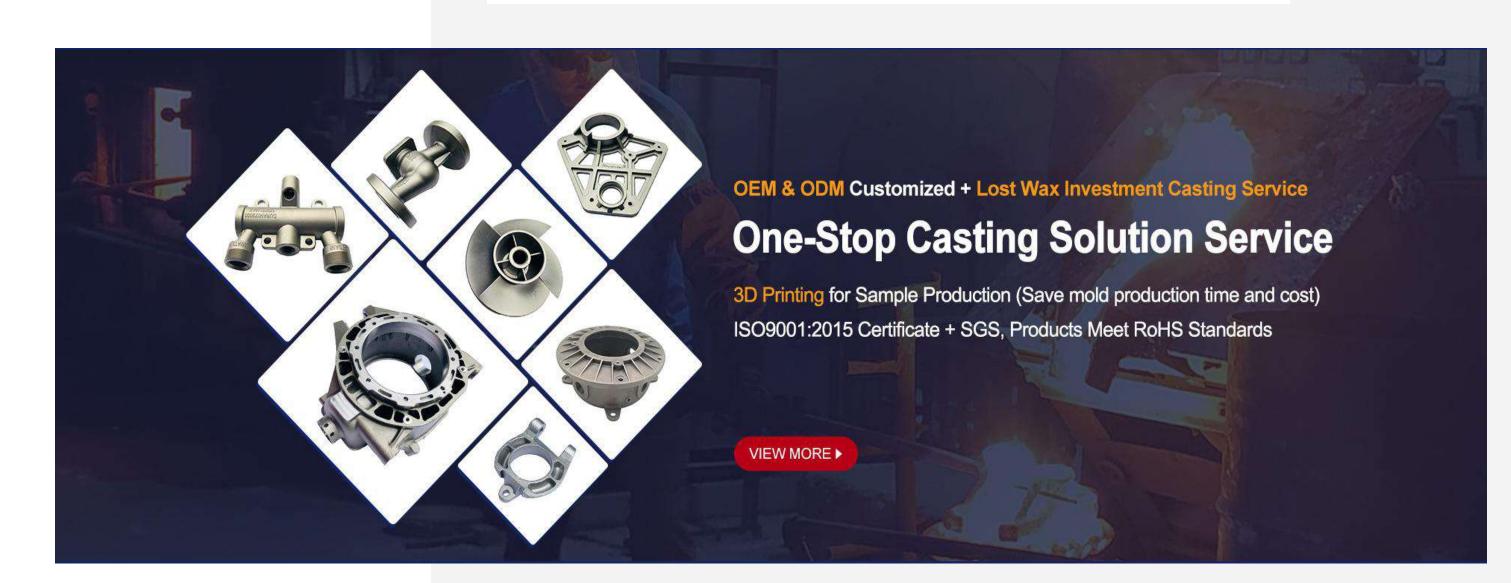
Foshan Zeren Precision Casting Co., Ltd.

**Precision Lost Wax Investment Casting** 

Silica Sol Process, 3D Printing for sample

**CNC Machining Solution** 

### HELLO!







### **COMPANY OVERVIEW**

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#### Foshan Zeren

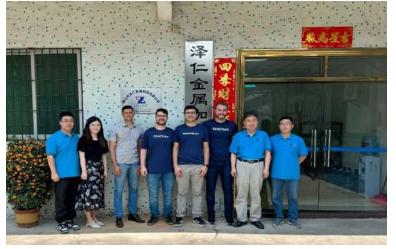












# BACKGROUND OF Foshan Zeren

Foshan Zeren Precision Casting Co., Ltd. was founded in 2009, with a precision casting plant and a mechanical processing plant, located at Foshan, Guangdong, China.

We use advanced investment casting(lost wax casting) process for precision castings production, which are made of stainless steel, carbon steel and alloy steel, etc.

Our key advantage is using 3D printing technology for sample production, which save the cost and time of mold production(Rapid Prototyping).

We can also provide subsequent CNC machining of casting, and have passed and implemented the ISO9001:2015 quality management system.



#### Foshan Zeren





# BACKGROUND OF Foshan Zeren

Main business:

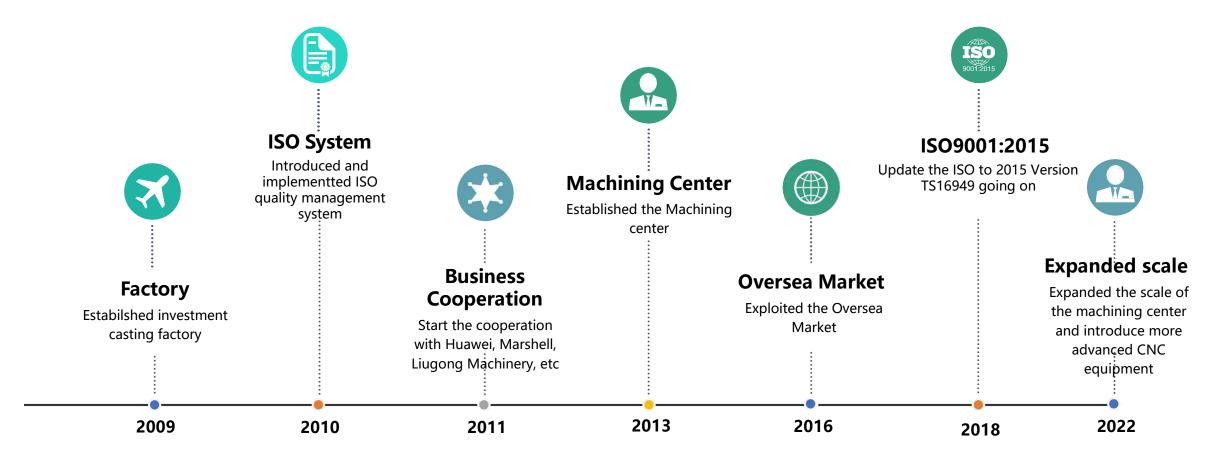
Our company focuses on the lost-wax investment casting products, offer mold manufacturing, CNC machining, polishing, surface treatment and other design services.

From stainless steel investment castings to carbon steel investment castings, we keep you ahead of the competition.

Our attention to detail using precision casting and the machining techniques produces the highest quality steel castings for various industries.

### Our History





**Zeren Customization Service Flow Chart** 



### Why Choose Us



We Provide One-Stop Casting & Machining Service



We Provide One-Stop Casting & Machining Service.



Direct Investment Casting Factory, NonStandard Parts.



All of our products are silica sol investment casting (better surface roughness Ra3.2) instead of water glass investment casting.



30+ Years Lost Wax Investment Casting Experience, Professional Engineering Team.



One-Stop OEM/ODM Customized Investment Casting & CNC Machining Service.



**3D Printing Technology for Sample Production**, save the cost and time of mold production(Rapid Prototyping).



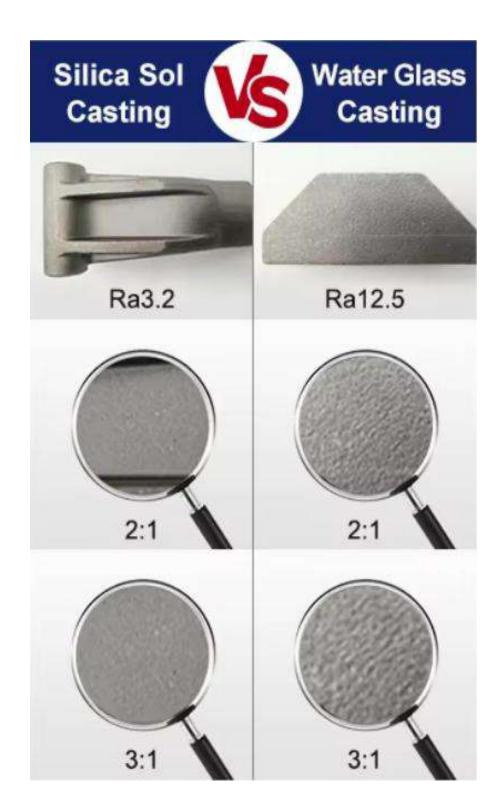
With ISO9001:2015 & SGS Certificate, Products meet RoHS Standards.



Low Minimum Order & On Time Delivery.



Quality Assurance (Provide Chemical Compositon Testing Report and FAI Inspection Form).



### Why Choose Us

## **1**1 Fo

### Foshan Zeren

#### We Provide One-Stop Casting & Machining Service

An industry leading commercial precision investment casting (lost wax) foundry producing stainless steel, carbon steel, and alloy castings.

Let the team at Zeren Precise Castings prove their value in the successful launch of your next critical project.

Look to Precise Castings for your next casting need!

- √ Stainless Steel Casting
- ✓ Carbon Steel Casting
- ✓ High Alloy Casting
- ✓ Low Alloy Casting
- ✓ Heat or Wear Resistant Casting
- ✓ Nickel Casting
- ✓ Titainum Casting



Member Of China Foundry Association



ISO9001:2015
Quality Management System



Over 20 Yeas Experience In Precision Casting Field For Industry Leading Delivery & Customized Service



Professional Team
Creative Engineering
To Keep Your Costs Down



An Arsenal Of Value-added Services
Casting CNC Machining
Surface Treatment
And Assembly - Just Ask



Adherence To World-wide Standards And Specs To Satisfy Your Fitting

Zeren Precise Casting is the #1 Investment casting company in our region.

### Industry Application

Stainless Steel, Carbon Steel, Alloy Steel, etc













Stainless Steel Casting Part





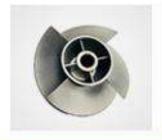




Carbon Steel Casting Part











Alloy Steel Casting Part



#### Foshan Zeren

#### ▶ Industry Application











01. Machinery equipment Casting Part







02. Power Engineering Instrument Casting Part







































05. Hardware Casting Part

## Industry Application

## Foshan Zeren

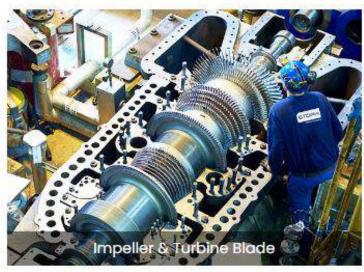
### **Product Categories**



















### **Product Category**



Material includes Stainless Steel, Carbon Steel, Alloy Steel, Nickel-Based Alloy, etc



#### **Machinery Equipment Casting Part**

- Petrochemical Machinery
- Plastic Film Machinery Marine Machinery



#### **Power Engineering Instrument Casting Part**

- Instrument Accessories
- Impeller Accessories Turbine Accessories



#### **Transport Tool Casting Part**

- Motorcycle Accessories
- Vehicle Accessories
   Aerospace Accessories



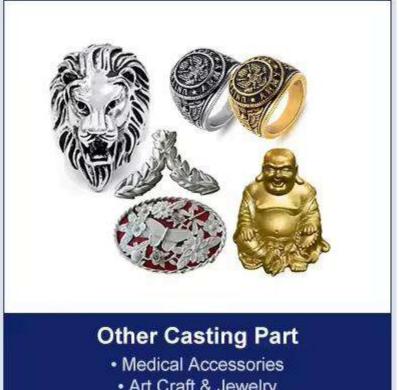
#### **Pump Valve Casting Part**

- Pump Accessories
- Valve Accessories



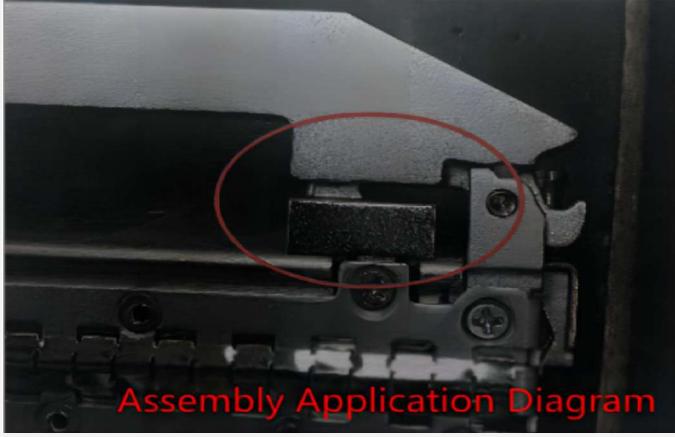
#### **Hardware Casting Part**

· Kitchenware and Bathroom Hardware Door and Window Hardware Lighting Fixture Hardware



Art Craft & Jewelry





### Our Case 1 & Solutions

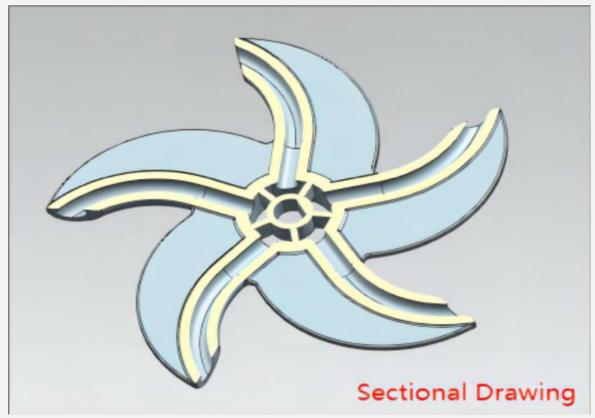
# 1. Cooperation with HUAWEI - Wrench Casting Parts

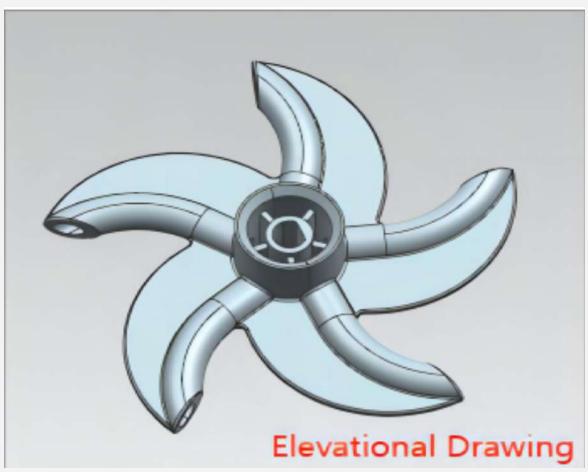
In 2012, our company developed a product for HUAWEI: wrench casting - tool door and window hardware, the material is A3 steel.

During the production process, we found the following problems: because the casting is easy to deform, subsequent shaping is difficult, and after the surface is polished, it needs to be plated with copper and then chrome-plated.

At the same time, electroplating will have a magnifying effect on surface defects, and sand holes are prone to occur, resulting in rework or even scrapping after final polishing. Therefore, we recommend only casting the head of the product.

The rear plane part is processed by steel plate and then butted together, which does not affect the performance of the produc, and overcomes the above defects, and reduces the cost by about 50%.





### Our Case 2 & Solutions

# 2. 304 Stainless Steel Diffuser Impellers & Steam Valve

In 2016, our company produced diffuser impellers (impeller accessories) according to the drawings provided by customers, the material is 304 stainless steel.

This product contains five curved air-dissipating holes. It is very difficult to build the mold, make the shell and remove the sand, resulting in a high scrap rate.

In this regard, after research and discussion, our engineers decided to use a sand core material that not only has high temperature strength but also is easy to remove sand after high temperature, and finally perfectly solved the problem of curved hole casting.

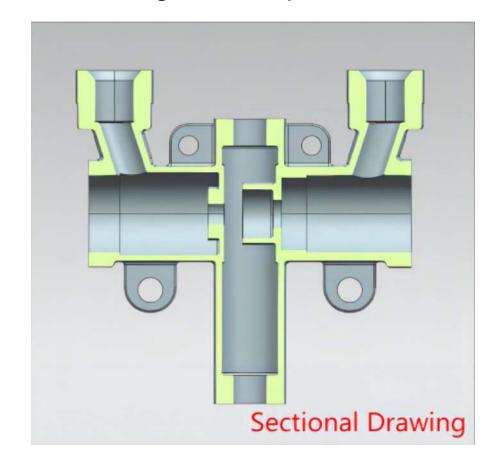


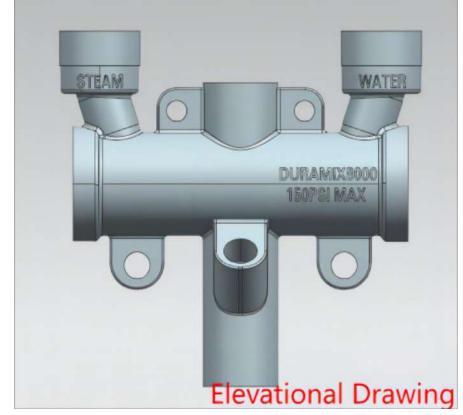
### Our Case 2 & Solutions

# 2. 304 Stainless Steel Diffuser Impellers & Steam Valve

In addition, there is also a steam valve, the material is 316 stainless steel.

Due to the small opening and complex inner cavity, finally successfully solved the problem for the customer by using this sand core material, produced the product, and established a long-term good cooperative relationship with the customer.









### Our Case 3 & Solutions

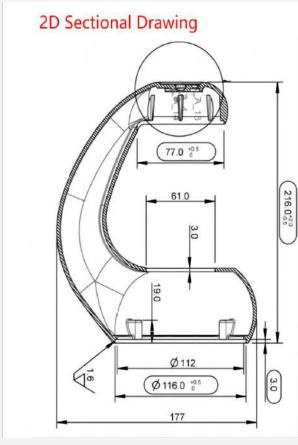
#### 3. 316 Stainless Steel Pressure Vent Valve Body

In 2018, our company produced the pressure vent valve body (valve accessories) for customers. The material is 316 stainless steel.

Because the opening is too small, the inner cavity is small and complicated, and it is almost impossible to clean the internal sand core, so we opened a square hole on the back of the product, welded it with a stainless steel square plate, and opened a dovetail groove at the weld, which is conducive to a strong weld.

We also used a sand core that has both high-temperature strength and is easy to remove sand after high-temperature action to make this product. After the casting was processed, the air-tightness test was carried out, and it reached the qualified standard, so the product was mass-produced, and finally met the customer's requirements and won the trust of the customer.







### Our Case 4 & Solutions

#### 4. Coffee Pot Casting Part

In 2020, our company produced the main casting of the coffee pot - kitchenware and bathroom hardware for an Italian customer.

The material is 316 stainless steel. Through communication with the customer, we learned that the customer has verticality requirements for the center of the upper and lower parts of the casting, but due to the inner cavity of this product is complex, and it is impossible to build the mold as a whole.

Therefore, we divided the wax mold of the part into upper and lower parts and made them separately, and then assembled the wax molds of the upper and lower parts into a whole. The combined wax mold successfully passed the verticality tooling inspection procedure.

And finally all aspects of performance have met the customer's requirements, so the customer is very satisfied with our professional technical level and perfect product quality.









### Part & Product Example

#### 1. Bracket Assembly for motorcyle gear shifter

These components are part of a bracket assembly for a gear shifter on a motorcycle. Both castings are made from 20CrNiMo and are machined, powder coated, and assembled.

#### 2. Gear Case for race car

This component is customized gear case for the racing car. It ismade from SS304 and are machined, powder coated.

### 3. Rope And Chain Winch

This is an inner gypsy in an electric rope and chain winch. The component is made with SS316, that was then machined and electropolished.











### Part & Product Example

#### 4. Control Button Guard

This component is a control button guard made from SS316. This casting is machined and electropolished.

### 5. Turbine Wheel For Model Jet Enigne

This is the turbine wheel in the model jet engine. The component is made with Inconel 713, that was then machined.

# 6. Turbine Blade For Model Turbine Shaft Assembly

This is the turbine blade in the model jet engine. The component is made with Inconel 713, that was then machined.

### **Our Quality Services**

- Foshan Zeren

- 1. Industry leading delivery and "customized" service
- 2. Production from a ounces to approximately 150 pounds
- 3. Creative engineering to keep your costs down

- 4. Flexible volume capabilities
- 5. Adherence to world-wide standards and specs
- 6. An arsenal of value-added services and processes involving casting, CNC machining, surface treatment and assembly just ask



01

### **Casting Analysis & Design**

IS INVESTMENT CASTING
RIGHT FOR YOUR
COMPONENT? No two casting
projects are the same and with
different projects, there are
different solutions.



02

#### **Mould Manufacturing**

Zeren's proprietary, mold manufacturing process technology is designed to measure and correct dimensional issues during the mould manufacturing process.

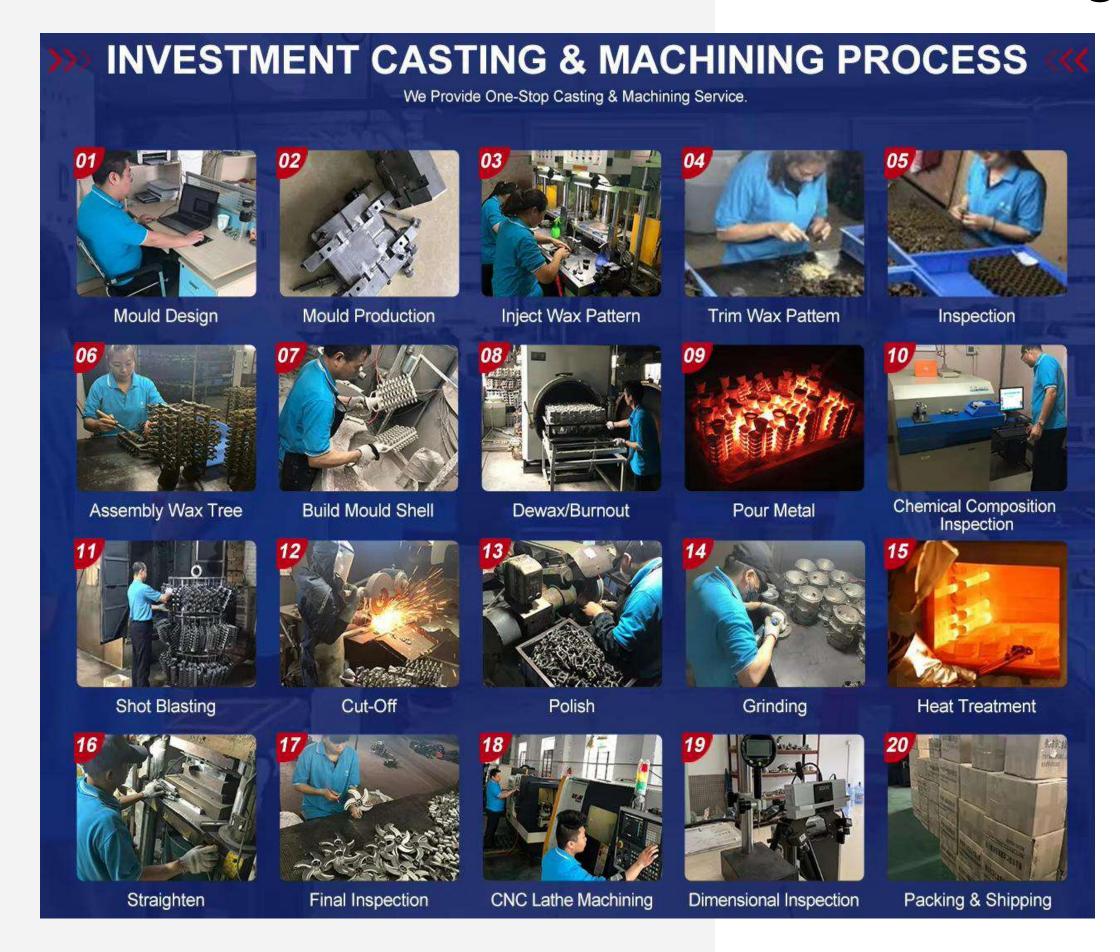


03

#### **Secondary Machining**

With full high-speed CNC machining in-house, we can quickly perform any necessar y machining quickly and cost-effectively.

### Zeren Lost Wax Investment Casting & Machining Process



#### The Zeren Difference

Investment casting can produce parts of virtually any size, to almost any level of complexity, and can hold tolerances simply impossible using other methods.

With our state-of-the-art equipment and automation, we can deliver the best performance and the lowest total cost for every component you develop.

Contact our team today to experience the Zeren difference.

### Zeren Investment Casting Tolerance Table

TECHIICAL INFORMATION DIMENSION TOLERANCE

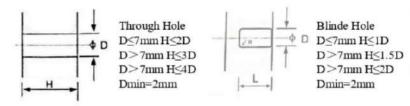
Liner Tolerance (Refer to German Investment Casting Tolerance Standards VDG Merkblad P690)

Nomianl Dimension		Length,Width,Height						Center Line	
		D1		D2		D3		D1	D2
> From	≤ To	Tolerance	Field	Tolerance	Field	Tolerance	Field	Tolerance	Tolerance
0	6	±0.10	0.20	±0.08	0.16	.0.00	0.13	10.25	±0.16
6	10	±0.12	0.24	±0.10	0.20	±0.06	0.12		
10	14	±0.15	0.30	±0.12	0.24	.0.00	0.10	±0.25	
14	18	±0.2	0.40	±0.14	0.28	±0.09	0.18		
18	24	±0.25	0.50	±0.17	0.34	±0.12	0.24	±0.32	±0.20
24	30	±0.30	0.60	±0.20	0.40	±0.14	0.28		
30	40	±0.37	0.74	±0.25	0.50	±0.17	0.34	±0.50	±0.30
40	50	±0.44	0.88	±0.30	0.60	±0.20	0.40		
50	65	±0.52	1.04	±0.38	0.76	±0.23	0.46	±0.71	±0.45
65	80	±0.60	1.20	±0.46	0.92	±0.27	0.54		
80	100	±0.68	1.36	±0.53	1.06	±0.30	0.60	±0.91	±0.60
100	120	±0.76	1.52	±0.60	1.20	±0.33	0.66		
120	140	±0.84	1.68	±0.65	1.30	±0.36	0.72	±1.15	±0.85
140	160	±0.92	1.84	±0.72	1.44	±0.38	0.76		
160	180	±1.02	2.04	±0.80	1.60	±0.42	0.84		
180	200	±1.12	2.24	±0.88	1.76	±0.43	0.86	±1.80	±1.00
200	225	±1.28	2.56	±0.95	1.90	±0.47	0.94		
225	250	±1.44	2.88	±1.05	2.10	±0.51	1.02		
250	280	±1.64	3.28	±1.15	2.30	±0.56	1.12	±2.20	±1.25
280	315	±1.84	3.68	±1.25	2.50	±0.63	1.26		
315	355	±2.10	4.20	±1.40	2.80	±0.71	1.42	±2.60	±1.60
355	400	±2.40	4.80	±1.60	3.20	±0.80	1.60		

- D1 General dimension tolerance
- D2 Applicable to important dimension requiring close tolerances
- D3 Premium tolerance require additional operations at extra cost only applied to a few speical dimensions

Angle Tolerance ±0.5° to ±1° Straightness ≤0.005° per inch

#### CASTING CAPABLITY



The scope can be enlarged by the use of pre-formed ceramic cores at addtional cost, only economical for large quantities

Minum wall thickness:2mm (1mm for small area)

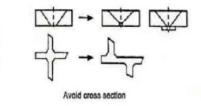
Radius of Rounds and fillets Surface Roughness: Ra3.2 Casting Weight: 5g-10Kg



R≥0.3mm



R≥0.5mm



Avoid sharp change in thickness

#### **Our Product General Specs:**

	Austenitic stainless steel: 201, 303, 304, 316, 316L, 1.4581, scs14, scs16					
	Hardened stainless steel:17-4PH, 410, 420, 440C					
Material	Alloy cast steel: 4140, 4150, 4340, 8620, GS-25CrMo4					
	Casting alloy tool steel: CS-2, CS-7, CrWMn					
	Carbon steel: 1020, 1025(WCB), 1030, 1040, 1045, 1050					
Weight	1g-30kg					
<b>Casting Tolerance</b>	CT4-CT7/GBT6414-1999; VDG Merkblad P690					
Surface Roughness	Ra1.6-Ra6.3					
Thickness	Min 2mm (1mm in Micro-region)					
<b>Casting Radius</b>	Round radius ≥0.3mm, Internal fillet radius≥0.5mm					
Blind Hole Depth	Max 30mm (Diamter 10mm)					
Machining	Turning, Milling, Drilling, Boring, Threading, Grinding, CNC Machining & test equipment					
<b>Heat Treatment</b>	Annealing, Hardening, Normalizing, Carburizing, Aging					
Surface Finishing	Black Oxide, Black Coating, Anti-Pollution Flashover Coating, Mirror Polish					
Industry Standards	ASTM, ICI, BS, DIN, JIS, ISO					
Design Software	Pro-E, UG,Solidworks, AutoCAD					
File Format	IGS, STP, STEP, XT, PDF, JPEG, JPG					
	·					

### ■ Our Certificate

#### **Certification & Test Report**









Report Number: QIP-ASI231867

Audit Date : 22 Jul., 2023

This report is issued by Focus Technology Co., Ltd. (Made-in-China.com) and the supervising inspectorate (SGS-CSTC Standards Technical Services Co., Ltd.) to confirm that:

Company Name : Foshan Zeren Precision Casting Co., Ltd.

佛山市泽仁金属制品有限公司

Showroom: https://zr-investmentcasting.en.made-in-china.com

Address : No. 4, Xinzhao Industrial Zone, Keyun South Xingwang Road, Zone A,

Shishan Industrial Park, Nanhai, Foshan, Guangdong, China
Product : Plastic Film Machinery Accessories, Petrochemical Machinery

Accessories, Marine machinery Accessories, Impeller Accessories

Turbine Accessories, Instrument Accessories, Vehicle Accessories, Motorcycle Accessories, Aerospace Accessories, Pump Accessories, Valve Accessories, Kitchenware and Bathroom Hardware, Door and

Window Hardware, Lighting Fixture Hardware

#### has been on site audited for the Following Scope of Activity

- 1. General Information
- 2. Foreign Trade Capacity
- 3. Product Research & Development Capacity
- 4. Management System and Product Certification
- 5. Production Capacity & Quality Control
- 6. Working Environment
- 7. Energy Saving and Emission Reduction
- 8. Photos

#### **General Comments:**

Foshan Zeren Precision Casting Co., Ltd. is a manufacturing enterprise with 64 employees; it was established in 2009, located in No. 4, Xinzhao Industrial Zone, Keyun South Xingwang Road, Zone A, Shishan Industrial Park, Nanhai, Foshan, Guangdong, China. The company occupies an area of 4,600 square meters. Foshan Zeren Precision Casting Co., Ltd. has successful foreign trading experience in North America and Europe.



Sign for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd.



Unless otherwise agreed in writing, this document is issued by the Company under its General Conditions of Service accessible at <a href="http://www.ags.com/enr/ferms-and-Conditions.aspx">http://www.ags.com/enr/ferms-and-Conditions.aspx</a> Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein Any holder of this document is advised that information contained hereon is solely limited to visual examination of the safely and readily accessible portions of the consignment and reflects the Company's findings at the time of its intervention only and within the limits of Clients' instructions, if any, The Company's sole responsibility is to its Client and this convent does not exchange to exchange the content of appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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中国·南京·泰淮区光华路1号载金白下创业特别社区4号楼B撤5楼 邮编: 210014 t (86-25)87128385 f (86-25)83407773 e as.cn@sgs.com

Member of the SGS Group (SGS SA)





#### SHANGHAI SAILWAY CERTIFICATION CO.,LTD.

### QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate Number: SW23Q21191R0S

This is to Certify that the Quality Management System of

#### Foshan Zeren Precision Casting Co., Ltd.

Organization Code/Unified Social Credit Code: 914406056964871948

Registration Address: No.4, Xinzhao Industrial Zone, Xingwang Road, South Keyun, Area A, Shishan Industrial Park, Nanhai District, Foshan City, Guangdong Prov.

Production/Business Address:No.4, Xinzhao Industrial Zone, Xingwang Road, South Keyun, Area A, Shishan Industrial Park, Nanhai District, Foshan City, Guangdong Prov.

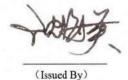
Has been Audited to Conform to the Following Quality

Management System Standard:

#### GB/T19001-2016/ISO9001:2015

for the Scope of Registration:

Production and Sales of Steel Castings.



Date of Issue: Jul 26, 2023 Date of Expiry: Jul 25, 2026









A surveillance audit must be carried out every 12 months within the three-year validity period. Also, it is only valid along with the anniversary confirmation. Effectiveness of the certificate, you can search CNCA website: www.cnca.gov.cn or scanning QR code.

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#### **Quality Assurance**



Foshan Zeren

We and all our partner manufacturers are typically ISO 9001 and/or TS 16949 certified. Our customers rely on us and our partner manufacturers to deliver world class quality products.

Our quality assurance technicians verify every lot of parts to ensure it meets our customers' high standards. We utilize ISO9001 accredited independent labs to certify material, casting, machining, finish, heat treatment, coating, customer specific performance and test requirements, and specifications.

#### **Quality Commitment**

Quality is always the highest priority at Zeren. We strive to meet and exceed all customer requirements and expectations and provide ontime delivery of defect-free casting and precision machined parts.

Our commitment to continuous improvement means great value is placed on teamwork, education, training, and prevention-oriented techniques across all possible aspects of company operations.



# Foshan Zeren Precision Casting Co., Ltd.

Spectral Analysis

#### Inspection



#### Foshan Zeren

Zeren inspection capabilities include mechanical inspections using 3D scanner, CMM(coordinate measuring machine), spectrograph, hardness testing, thread gauging, electronic document control, digital calipers & micrometers, lot traceability, process capability studies, gauge R&R studies and inspection accuracy to 0.00005" (0.001mm).

Our Calibration Program assures Zeren's metrology is functioning properly and kept in compliance both in- house and at our global partners. We continually monitor all associated metrology and gages in all of our production facilities.

We partner with certified outside test labs to perform the full gamut of testing such as Physical Property Testing, Destructive & Non-Destructive Testing, X-Ray and Metallurgical Analysis, Corrosion Resistance (salt spray) testing of coatings, and virtually any test required by our customers.



### **Quality Compliance**



Foshan Zeren

Zeren incorporates a robust quality plan to inspect and verify every lot. Our quality assurance professionals maintain the highest standards of training and education. Prior to exit-factory, all material and dimensional inspections are completed and certified.

Equipping with the latest in inspection technology and precision metrology, our quality team of ASQ Certified Technicians is able to obtain accurate data and pass that information on to our customers whenever required.

We offer our customers: First-Article Inspection Reports, SPC Data and Final Inspection reports. We also maintain a database with a full complement of quality records for immediate retrieval when required.

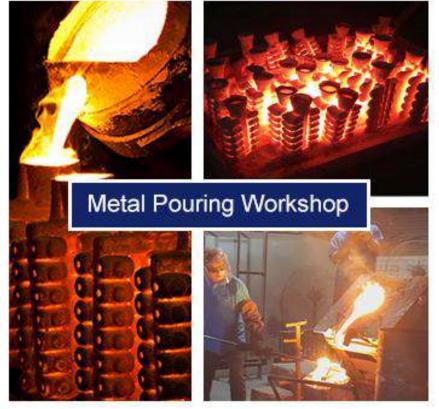
### ■ Our Workshop















Foshan Zeren

**Quality Feedback System** 

Input: Received feedback from customer or factory

What: Identifying the Problem

Where: Defining the goal to improvment

Why: Thinking about possible ways of solving a particular problem

Who: Designating the best person in charge

Why: Asking more why and then find out the best solution for improvement

PERSONAL INTEREST SERVICE PROFESSIONALISM

TRAINING

COMMUNICATION

MESSAGE

PROFESSIONALISM

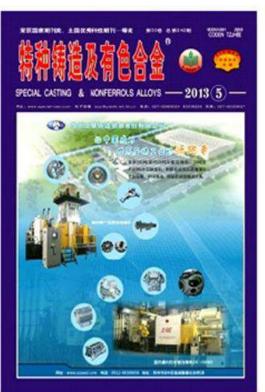
Output: Going through the PDCA cycle to solve the problem

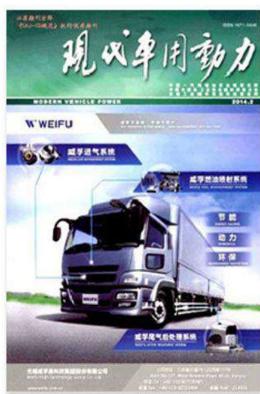
### Our Publish Papers

#### Our thesis published in academic journals:

- 1. Prevention methods for shrinkage cavity and surface burr defects of investment castings
- <<Special-cast and Non-ferrous Alloys>> 2020, (7)
- 2. Solutions of shrinkage in small castings with isolated hot joints
- <<Special-cast and Non-ferrous Alloys>> 2002, (2)
- 3. Reconsideration Solutions for shrinkage in small castings with isolated hot joints
- <<Special-cast and Non-ferrous Alloys>> 2002, (6)
- 4. Methods of eliminating cracks in silica sol shells and burrs in castings
- <<Special-cast and Non-ferrous Alloys>> 2001, (6)
- 5. Solutions of the investment casting enterprise after WTO
- The 8th(2003) Annual Meeting China Foundry Association Investment Casitng Branch
- 6. Application example of riser for investment casting
- The 8th(2003) Annual Meeting China Foundry Association Investment Casitng Branch
- 7. Technology measures of improvement iron casting structure density in  $\, \mathrm{II} \,$  pump body
- <<Modern Vehicle Power>> 1995, (2)







- ✓ "Prevention methods for shrinkage cavity and surface burr defects of investment castings"
- √ "Solutions of shrinkage in small castings with isolated hot joints"
- ✓ "Reconsideration Solutions for shrinkage in small castings with isolated hot joints"

(<<Special-cast and Non-ferrous Alloys>> 2020, (7), 2002, (2,6))

- > These three thesises directly rewrote part of the content of the textbook in foundry major in Chinese universities.
- In the past ten years, many skilled technicians in the foundry industry have mastered this technology and made great contributions to the technical progress of the foundry industry

### ■ Our Partner & Customer



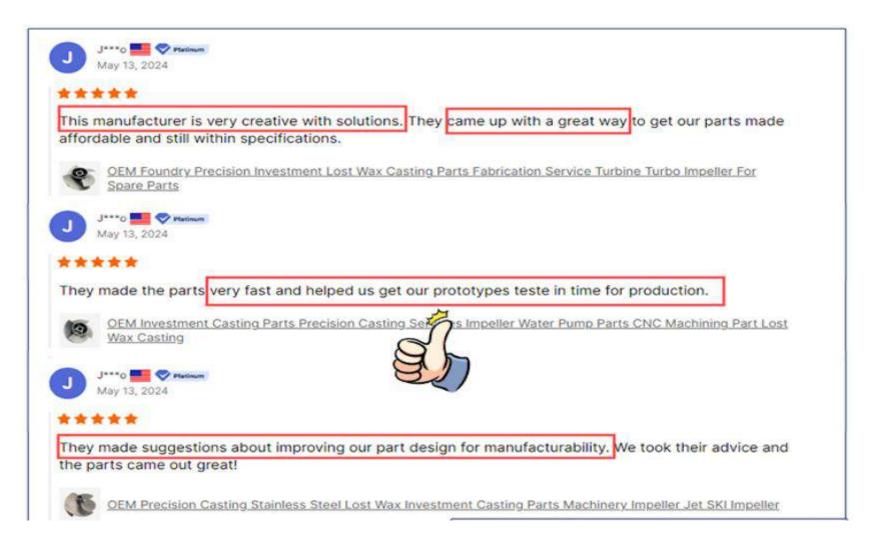
Cooperation comes from sincerity, We would like to be your best partner.

### ■ Customer Feedback











### ■ FAQ



#### Foshan Zeren

What size products can you produce?



What kind of CAD files can I send? How do I upload a CAD/large file to you?





We can produce products of various sizes for different industries, weighing anywhere from a few ounces to as much as 250 pounds.



You can send anything you run but the most beneficial are UG, STP, STEP or Parasolid. Please send us directly or to our email casting@ gdzeren.com.



What's your payment policy?





We work with a variety of materials, including stainless steel, carbon steel, alloy steel, aluminum alloy, copper alloy, nickel-based alloy, etc. We can assist in material selection based on your specific requirements. Yes we can OEM logo.

What materials can you cast? Can I OEM logo on the product?



For the sample order, our payment policy is 100% T/T payment

(Telegraphic transfer payment) in advance or other payment method. For the bulk order, our payment policy is 30% T/T in advance, 70% balance should be paid 7 working days before delivery.



What surface finish can be produced?

How to get sample?



What is delivery logistics?

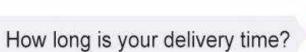




Ra3.2, and the machining finish can reach about Ra0.4. Other surface treatments can be done from electrophoresis, blackening, polishing, galvanizing to chrome plating, etc.



We accept a variety of logistics methods. You can choose the most convenient or cost-effective way.







Sample is acceptable. Please tell us what product you need.



It depends on order quantity and specific requirements. Usually sample needs 7-10 days, mass order needs 20-50 days.



### **■** Contact Information







- Email: casting@gdzeren.com/ gdzrcasting@gmail.com
- Phone: +86 15875760497 (Doris Lyu)
- Whatsapp/Skype/Wechat: +86 15875760497
- Website: (1) www.zr-investmentcasting.com
  - (2) fszeren.en.alibaba.com
  - (3)zr-investmentcasting.en.made-in-china.com