



Foshan Zeren Precision Casting Co., Ltd. Full Catalog

**Investment Casting: Building The Future With
Flawless Craftsmanship!**

Since 2009

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Whatsapp/Skype/Wechat: +86 15875760497

www.zr-investmentcasting.com

Foshan, Guangdong, China

Foshan Zeren Precision Casting Co., Ltd.

Precision Lost Wax Investment Casting

Silica Sol Process, 3D Printing for Sample

CNC Machining Solution

Zeren Fast Facts

 **2009**
Established

 **2**
Factory

 **6000 sq**
Total Area

 **100**
Employees

 **800 ton.**
Capacity

 **60 million**
Turnover

 **30 +**
Export countries

...

Your One-Stop Casting Solution

From Investment Casting to CNC Machining China Lost Wax Casting Manufacturer

Process: Precision Casting, Mold Making & 3D Printing Technology, CNC Machining, Heat Treatment, Surface Treatment, etc

Materials: Stainless Steel, Carbon Steel, Alloy Steel, Nickel-Based Alloy, Duplex Steel, Heat-Resistant and Wear-Resistant Steel, etc

Industries Served: Suitable for All Industries

[View More](#)





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.**



One-Stop Solution + OEM Design Casting Service

Zeren CNC Machining Service

Includes CNC Lathe Machining, Wire Cutting, Milling Machine Processing, Automatic Tapping

[Read More](#)



OEM&ODM Customized +Lost Wax Investment Casting Service

One Stop Casting Solution Service

3D Printing for Sample Production (Save mold production time and cost)

ISO9001:2015 Certificate + SGS, Products Meet RoHS Standards

[Read More](#)



BACKGROUND OF Foshan Zeren

Main business:

Our company offer **Mold Production & 3D Printing Services, Investment Casting Services, CNC Machining Services, Heat Treatment Services, Surface Treatment Services and other design services.**

With state-of-the-art facilities and expert craftsmanship, we deliver high-quality, customized products that meet the diverse needs of industries.

Our integrated services ensure precision, reliability, and cost-efficiency, making us a trusted partner for clients seeking durable, high-performance components.

Zeren Capabilities



Zeren Capabilities

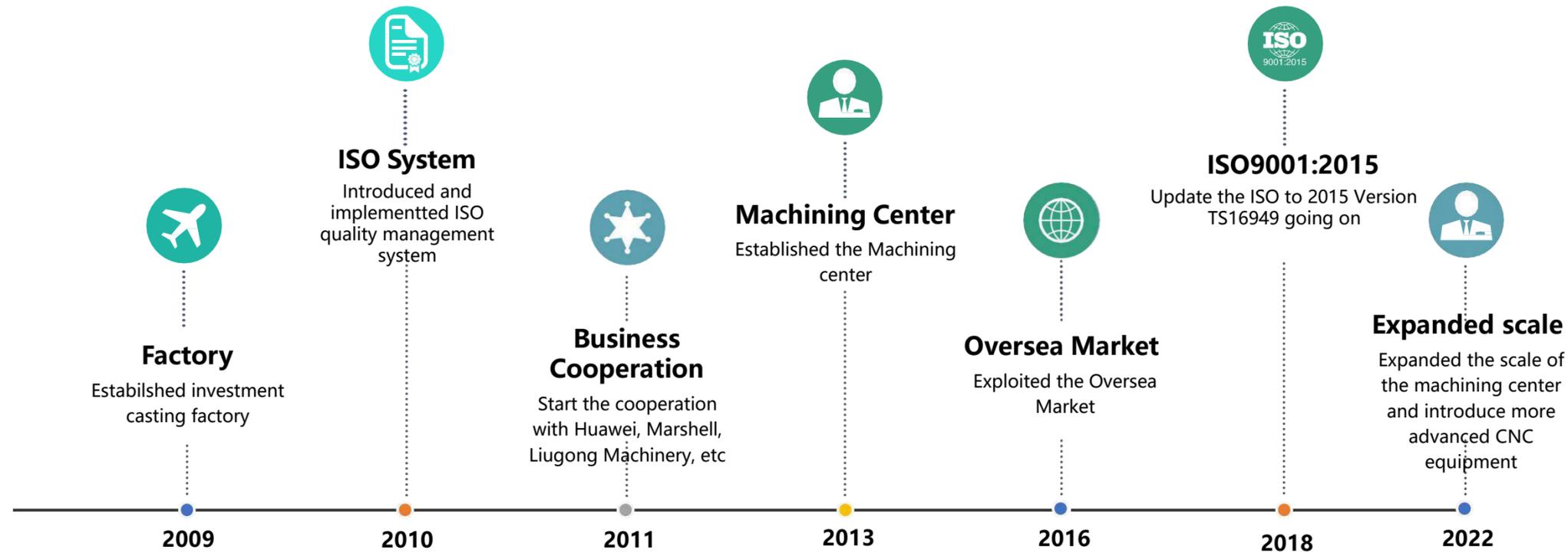
Comprehensive OEM Investment Casting Solutions – Specializing in lost wax casting for diverse industry applications.

- **Investment Casting Services** – Includes Stainless Steel, Carbon Steel, Alloy Steel, Duplex Steel, Heat-Resistant and Wear-Resistant Steel, etc.
- **Mold Production & 3D Printing Services** – Precision Casting Metal Mold (Aluminum or Steel Mold) & Rapid Casting for 3D Printing
- **CNC Machining Services** – Includes CNC Turning, CNC Machining, Wire Cutting, Manual Milling, and EDM, etc.
- **Heat Treatment Services** – Includes quenching, annealing, tempering, normalizing, aging, carburizing, and nitriding, etc.
- **Surface Treatment Services** – Includes blackening, electroplating, electrophoresis, polishing, mechanical polishing, electrolytic polishing, and powder coating, etc.

Our History



Foshan Zeren



Zeren Customization Service Flow Chart



Why Choose Us

We Provide One-Stop Investment Casting & CNC Machining Service

1. Direct Investment Casting Factory & Non-Standard Parts

As a direct manufacturer, we specialize in producing custom and non-standard parts, eliminating middlemen to offer competitive pricing and faster lead times.

2. Advanced Silica Sol Investment Casting

All our products utilize silica sol investment casting (Ra3.2 surface roughness), ensuring superior surface quality and precision compared to traditional water glass casting.

3. Extensive Experience & Expert Engineering Team

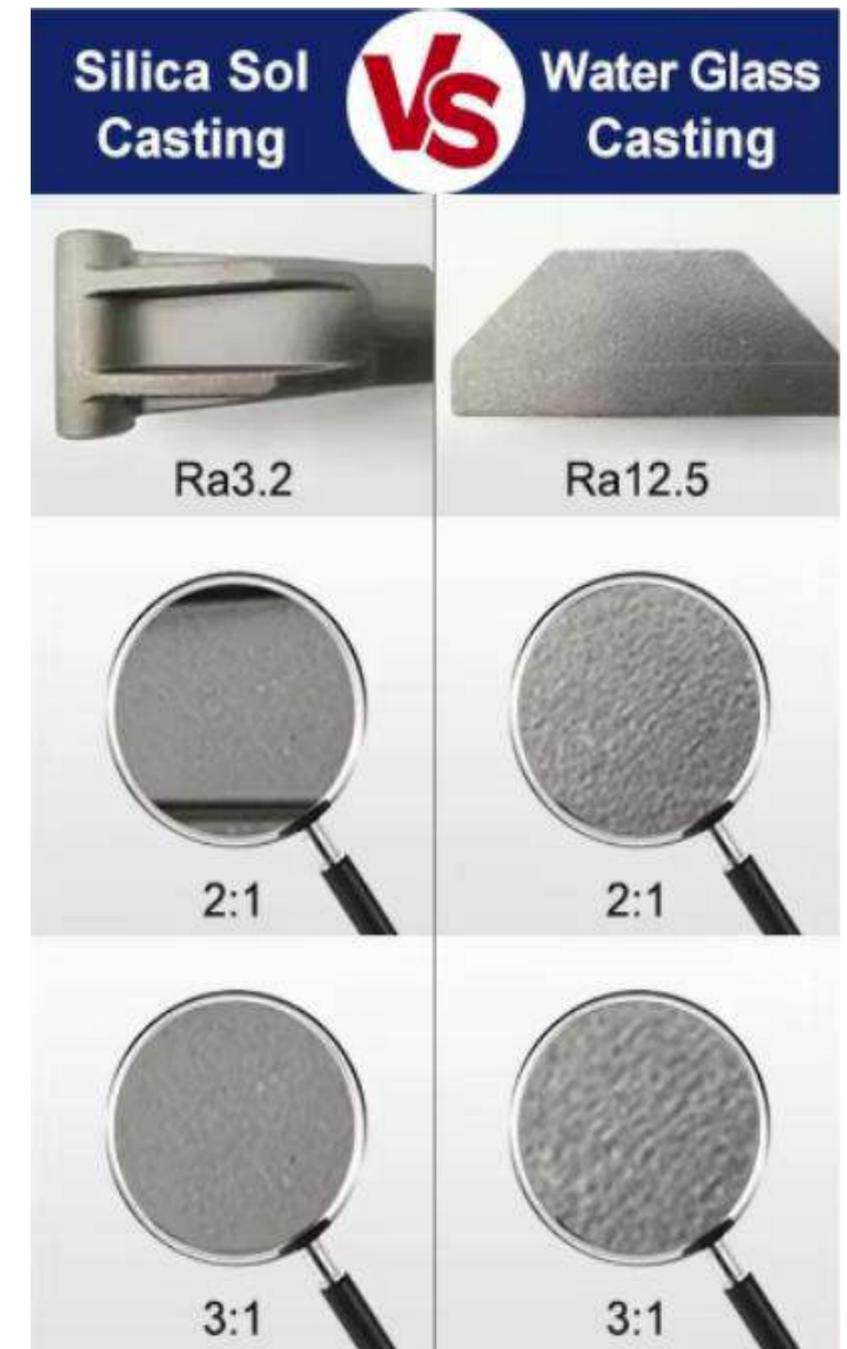
With 30+ years of expertise in lost wax investment casting, our highly skilled engineering team delivers top-tier solutions tailored to industry-specific requirements.

4. Comprehensive OEM Solutions

We provide one-stop OEM/ODM investment casting and CNC machining services, handling everything from prototype development to mass production.

5. Cutting-Edge 3D Printing for Rapid Prototyping

Our 3D printing technology enables rapid sample production, significantly reducing the cost and time required for mold development.



Why Choose Us



Foshan Zeren

We Provide One-Stop Investment Casting & CNC Machining Service

6. International Certifications & Compliance

We are certified with ISO9001:2015 & SGS, and our products comply with RoHS standards, ensuring global quality and environmental responsibility.

7. Low Minimum Order & On-Time Delivery

We offer flexible order quantities to meet diverse client needs while maintaining an efficient supply chain for timely deliveries.

8. Strict Quality Assurance & Testing

We prioritize quality with chemical composition testing reports and First Article Inspection (FAI) forms, ensuring each component meets stringent industry standards.

9. High-Quality Precision & Customization

Our expertise in stainless steel and complex metal components ensures that we can deliver customized solutions with tight tolerances and superior surface finishes.

10. Strong Customer-Centric Approach

We prioritize customer satisfaction through flexible solutions, responsive communication, and dedicated after-sales support.



Member Of China
Foundry Association



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



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



ISO9001:2015
Quality Management System



Professional Team
Creative Engineering
To Keep Your Costs Down



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

Industry Application



Foshan Zeren

Our Material includes Stainless Steel, Carbon Steel, Alloy Steel, etc



Stainless Steel Casting Part



Carbon Steel Casting Part



Alloy Steel Casting Part

Industry Application



01. Machinery equipment Casting Part



02. Power Engineering Instrument Casting Part



03. Pump Valve Casting Part



04. Transport Tool Casting Part



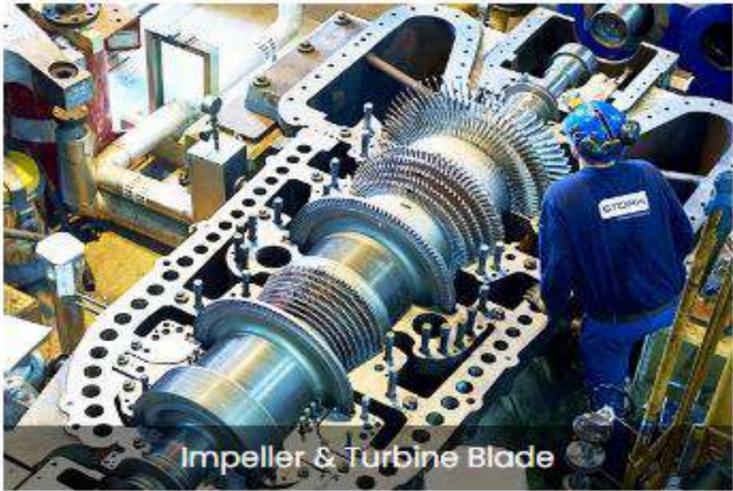
05. Hardware Casting Part

Industry Application



Foshan Zeren

Industries Served: Suitable for All Industries



Product Category



Foshan Zeren

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



Machinery Equipment Casting Part

- Construction & Industrial Machinery
- Petrochemical 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



Other Casting Part

- Medical Accessories • Plastic Film Machinery
- Art & Jewelry

Case & Project Solutions



Foshan Zeren

One-Stop Precision Casting Expertise

At Foshan Zeren Precision Casting Co., Ltd., we provide comprehensive, **one-stop casting solutions** tailored to diverse industries. Our expertise spans Mold Production & 3D Printing, Investment Casting, CNC Machining, Heat Treatment, and Surface Treatment Services, ensuring seamless design-to-production solutions.

This page highlights **our successful case studies and project solutions**, demonstrating our commitment to precision, durability, and efficiency. Whether you need high-performance components, complex custom parts, or mass production solutions, **our advanced technologies and expert craftsmanship deliver results you can trust.**

Contact us today to discover how our integrated solutions can bring your projects to life!



Our Case 1 & Solutions

Cooperation with HUAWEI - A3 Steel Wrench Casting Parts (2012)

Industry: Tools & Hardware

Challenge / Problem

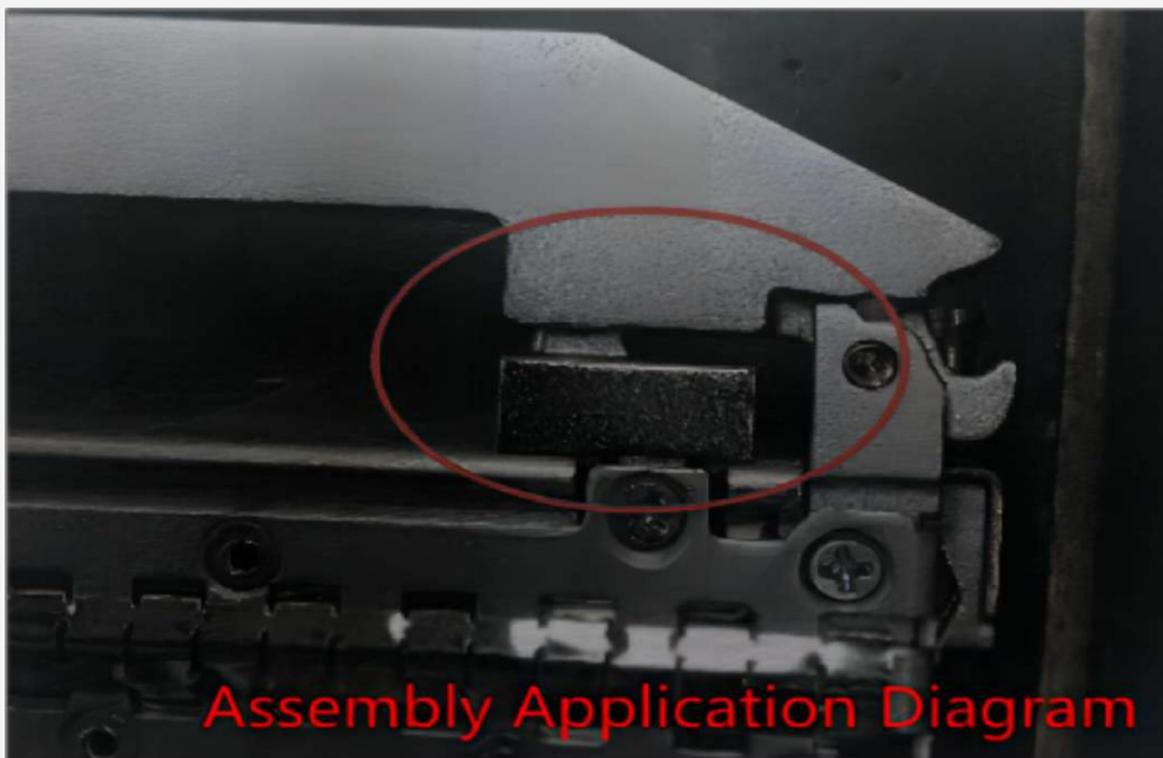
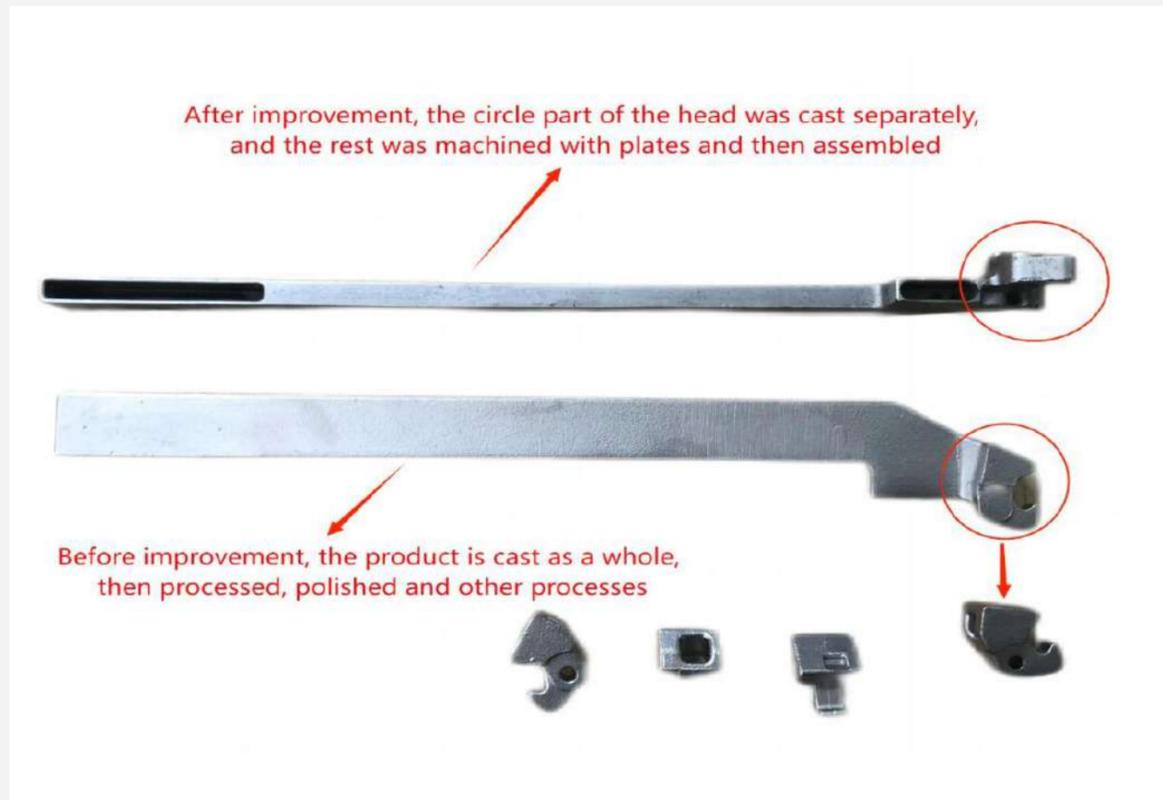
1. The initial design of the product was to cast it as a whole. Since the wrench handle is relatively long, it is difficult to shape it.
2. The surface of the product is copper-plated and then chrome-plated, which magnifies the surface defects of the product, resulting in a high rework rate and an increase in the scrap rate.

Solution

1. Divide the product into two sections, cast the wrench head part, and use processed steel plates for the wrench handle.
2. And connect them together by welding, which does not affect the performance of the product.

Results & Impact

The product has a better appearance and texture, and reduced the cost by about 50%, which has achieved customer satisfaction and won customer trust.



Our Case 2 & Solutions

304 Stainless Steel Diffuser Impeller & Steam Valve (2016)

Industry: Mechanical Engineering

Challenge / Problem

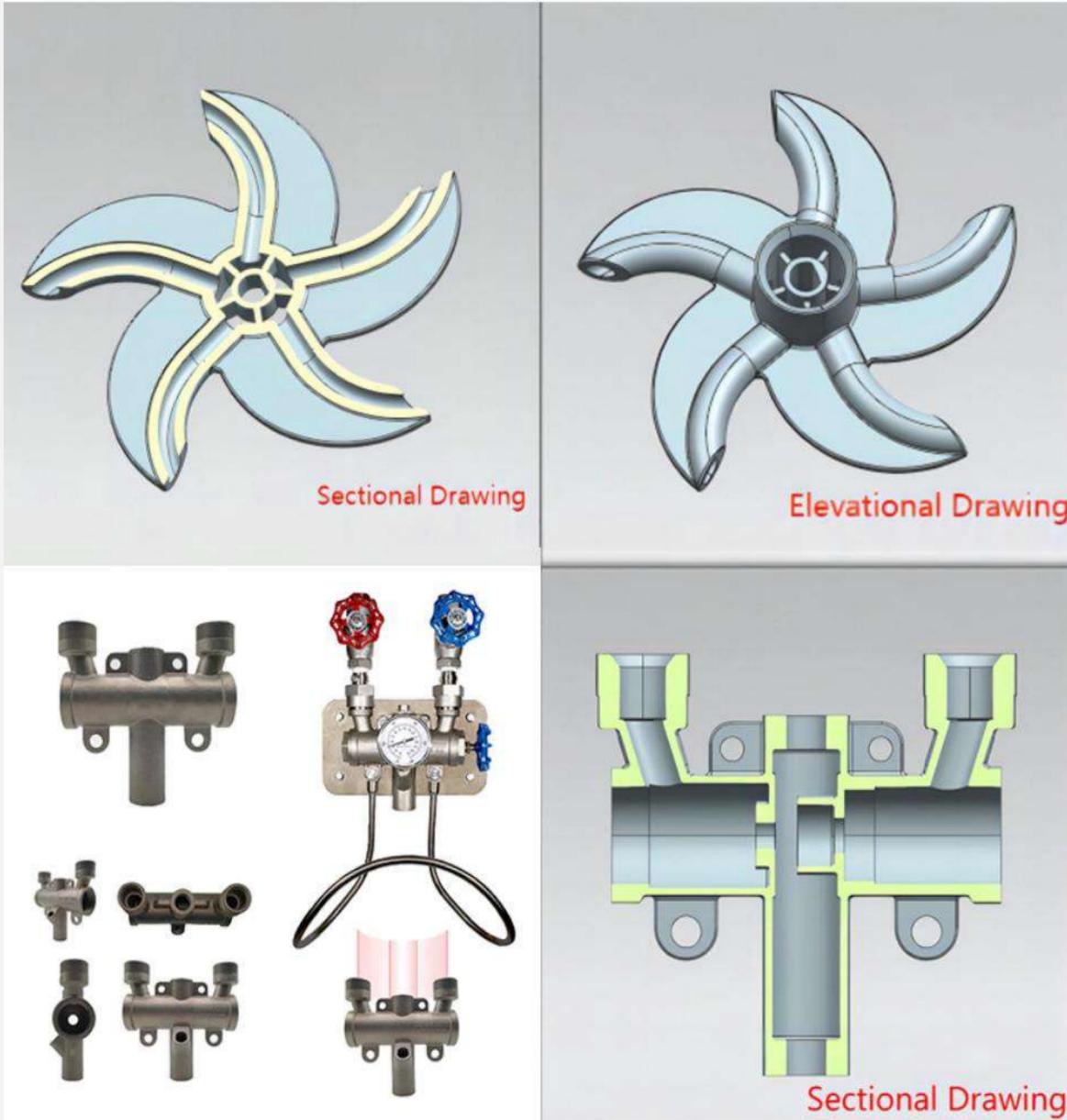
1. The product has curved small holes connected inside, which makes it difficult to build the mold.
2. Shell making and subsequent sand cleaning during casting are difficult, resulting in a high scrap rate.

Solution

We use sand cores with good high temperature strength inside the product, which are easy to clean after high temperature, and solve the casting problem of the curved hole part very well.

Results & Impact

The product's performance improved significantly, rework rates decreased, and delivery time was shortened. This earned customer trust and led to a long-term partnership.



Our Case 3 & Solutions

316 Stainless Steel Pressure Valve Body (2018)

Industry: Equipment Manufacturing

Challenge / Problem

1. The product has a small opening and a complex inner cavity, making it almost impossible to produce.
2. It is difficult to clean the sand inside the product.

Solution

1. Open a square hole on the back of the product, use a stainless steel square plate for welding, and design a dovetail groove at the weld to improve the firmness of the weld.
2. Used high-temperature-resistant, high-strength sand cores internally, ensuring airtightness requirements were met.

Results & Impact

The product became more cost-effective, efficiency improved, and its performance in applications was enhanced, earning customer trust.



Our Case 4 & Solutions

316 Stainless Steel Coffee Pot Body (2020)

Industry: Kitchen & Home Appliances

Challenge / Problem

1. The product structure is complex and the mold cannot be made as a whole.
2. The product has high verticality requirements.

Solution

1. Connected the upper and lower wax molds and used aluminum tooling blocks during the wax mold process for alignment.
2. After the product is formed, we use tooling to shape it and use a checking fixture to check the verticality.

Results & Impact

The performance and appearance of the product have been recognized by customers and a long-term cooperative relationship has been established.



Our Case 5 & Solutions

AISI5140 (40Cr) High-Precision Food Film Equipment Parts (2021)

Industry: Mechanical Equipment

Challenge / Problem

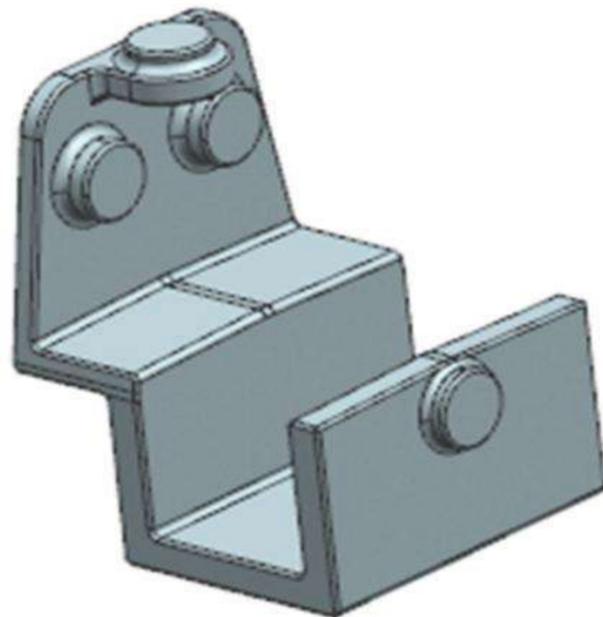
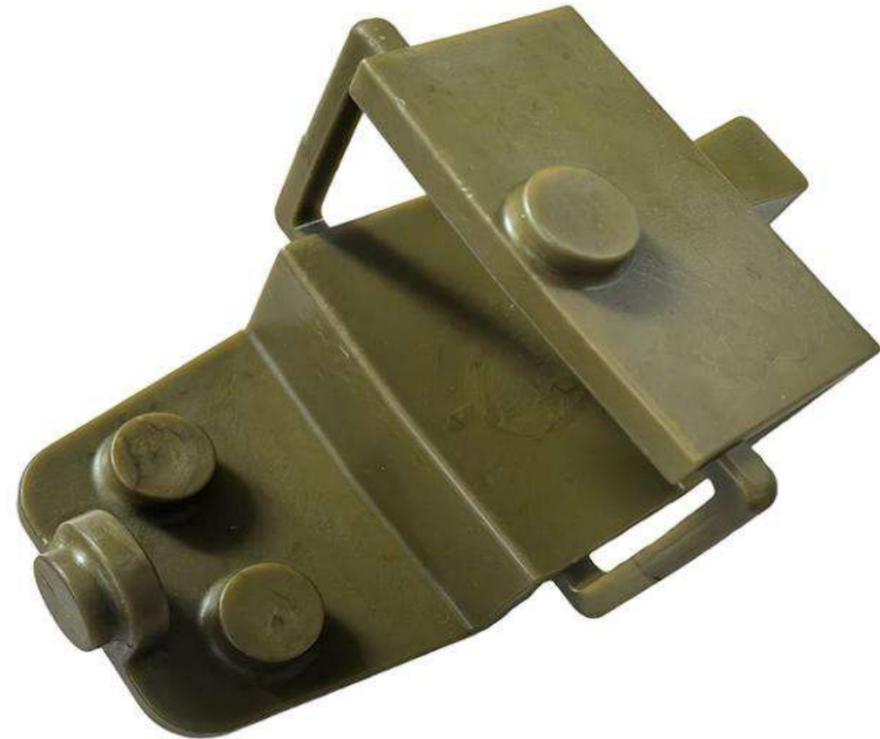
1. Due to the strict tolerance requirements, most positions are suspended and the product is severely deformed.
2. The product hardness requirements are high, and customers want a hard but not brittle effect.

Solution

1. We added reinforcement ribs at the product's openings to prevent deformation, followed by grinding treatment.
2. After wax injection, we placed aluminum blocks in severely deformed areas of the wax mold to shape it and control deformation.
3. In the post-processing stage, we used a hanging shot blasting method to reduce damage and stress impact during shot blasting.

Results & Impact

Through various process improvements, the product's performance was significantly enhanced, and the yield rate increased substantially, meeting the client's expectations.



Our Case 6 & Solutions

304 Stainless Steel Motorcycle Parts (2022)

Industry: Transportation

Challenge / Problem

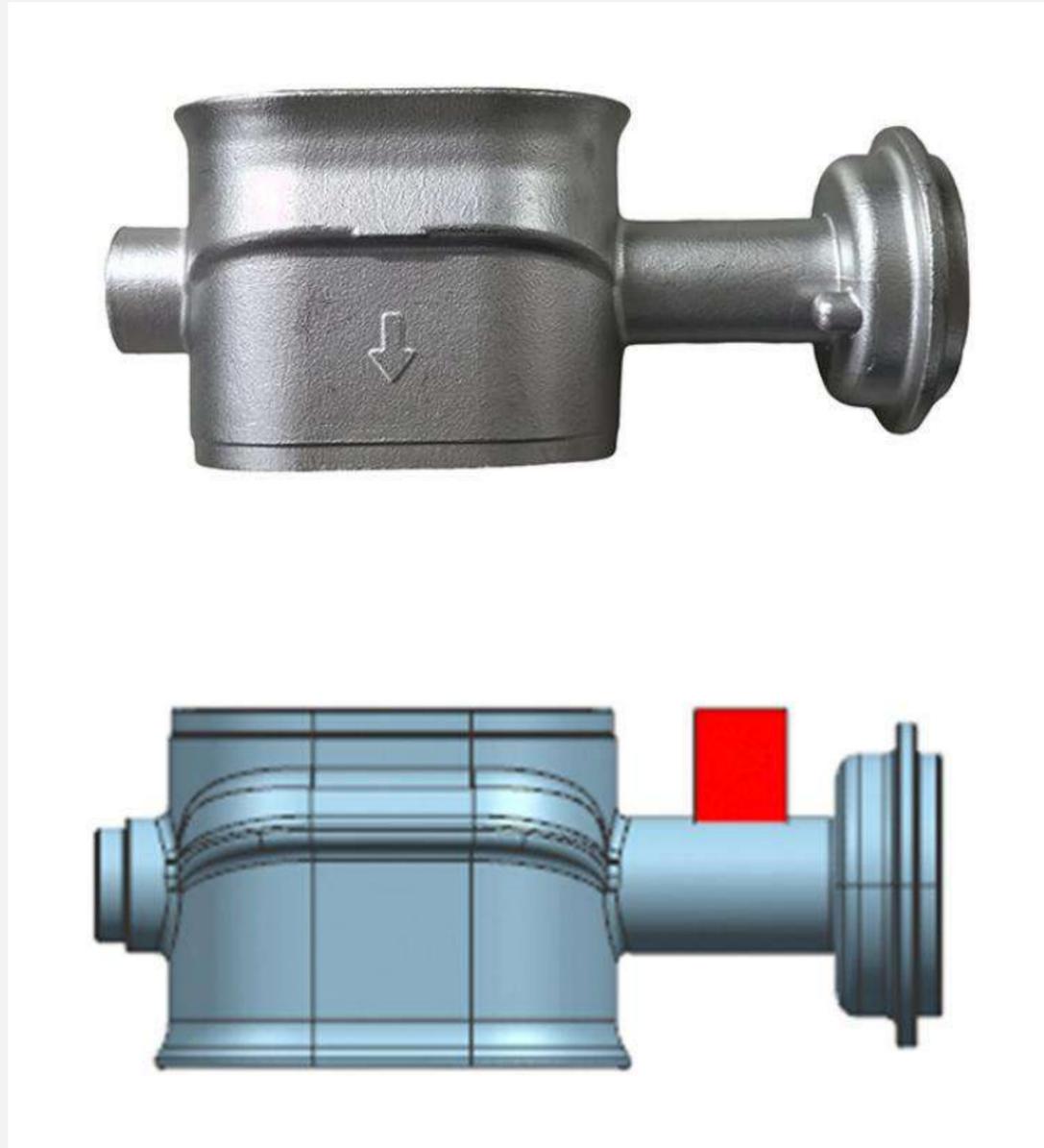
1. The internal shrinkage cavities of the casting are invisible from the outside, which leads to the discovery of shrinkage cavities after the inner hole is processed.
2. The deformation of the hollowed-out part in the middle of the product causes unstable dimensional tolerance.

Solution

1. We improved the feeding gate system (red area) and modified hard-to-grind areas into easily breakable sections, and also improve the shrinkage compensation effect of the product.
2. For the hollowed-out section in the middle, we used manual shaping and auxiliary inspection tools to keep dimensions within tolerance range.

Results & Impact

The stability of the product has improved, reducing rework processes, increasing efficiency, won the trust of customers, and established long-term cooperative relationships with them.



Our Case 7 & Solutions

Duplex Steel Manifold (2023)

Industry: Pump & Valve

Challenge / Problem

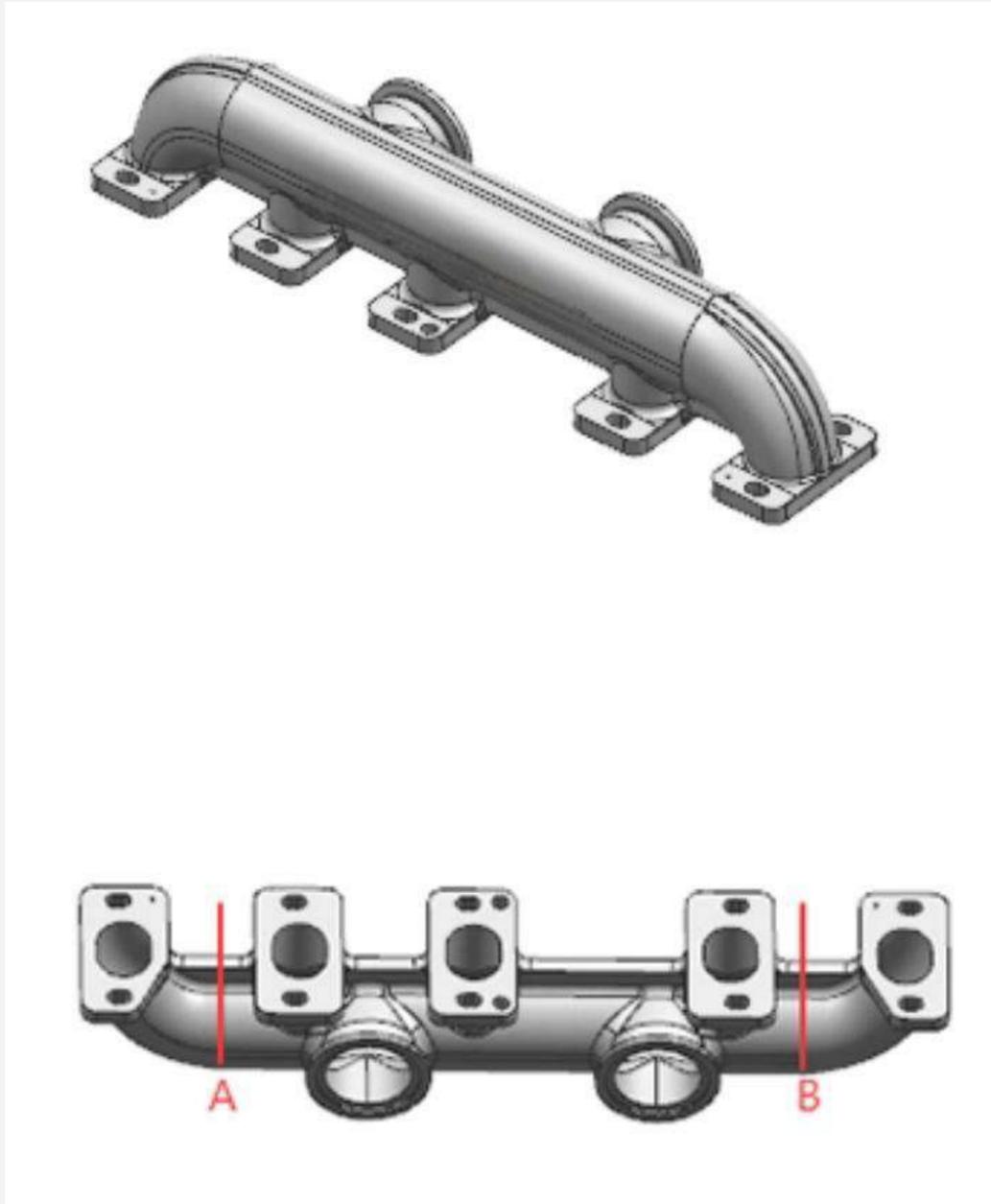
1. Since the product is made of wax molds and the joints are deep, it is not easy to process the inner surface, and the joints inside the product are rough and uneven
2. Due to large size of products, flat surfaces are not smooth.

Solution

1. After assembling the wax molds at points A and B, we used steel sheets or round spoon tools to smooth out the internal surfaces evenly.
2. During wax injection, we placed the product's large flat surface on a glass plate, conducting multiple inspections and adjustments before proceeding to the next process to ensure product stability.

Results & Impact

The verticality of products has improved along with better internal flatness, enhancing overall performance and internal finish quality of products. Finally, we have received recognition and positive reviews from customers.



Our Case 8 & Solutions

Alloy Steel Thin-Walled Connection Clamp for Automotive Parts (2024)

Industry: Automotive

Challenge / Problem

1. The product wall thickness is very thin, which is prone to shrinkage holes.
2. The opening of the product is greatly deformed and difficult to reshape.
3. There are small teeth interfering on the periphery of the product, and the feed port cannot be placed.

Solution

1. Connect the opening of the product and place the feed port here.
2. After the product is formed, use the inspection fixture to cut off the connecting parts to meet customer requirements.

Results & Impact

Without changing the product structure, the product's practicality is enhanced, which has won the customer's praise and trust.



Part & Product Example



1. Bracket Assembly for motorcycle 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 is made from SS304 and is 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 Engine

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 necessary machining quickly and cost-effectively.

Zeren Lost Wax Investment Casting & Machining Process



Mold Design



Mold Production



Inject Wax Pattern



Trim Wax Pattern



Assembly Wax Tree



Build Mold Shell



Dewax/Burnout



Chemical Composition Inspection



Pour Metal



Shot Blasting



Cut-Off



Polishing



Grinding



Heat Treatment



Finishing



Final Inspection



CNC Machining



CNC Lathe Machining



Dimensional Inspection



Packing & Shipping

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 & Specification & Services Table

TECHICAL INFORMATION DIMENSION TOLERANCE

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

Nominal 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	±0.06	0.12	±0.25	±0.16
6	10	±0.12	0.24	±0.10	0.20				
10	14	±0.15	0.30	±0.12	0.24	±0.09	0.18		
14	18	±0.2	0.40	±0.14	0.28				
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	±1.80	±1.00
180	200	±1.12	2.24	±0.88	1.76	±0.43	0.86		
200	225	±1.28	2.56	±0.95	1.90	±0.47	0.94	±2.20	±1.25
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	±2.60	±1.60
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		
355	400	±2.40	4.80	±1.60	3.20	±0.80	1.60		

D1 General dimension tolerance

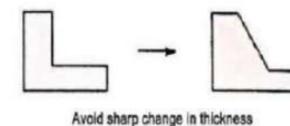
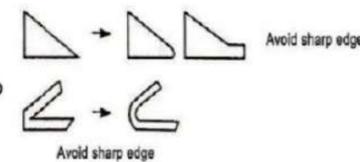
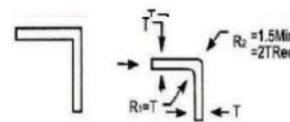
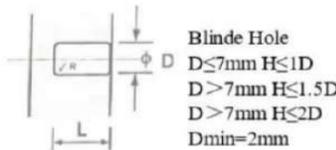
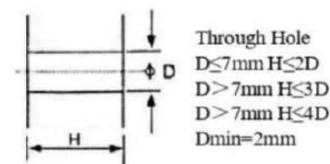
D2 Applicable to important dimension requiring close tolerances

D3 Premium tolerance require additional operations at extra cost only applied to a few special dimensions

Angle Tolerance ±0.5° to ±1°

Straightness ≤0.005° per inch

CASTING CAPABILITY



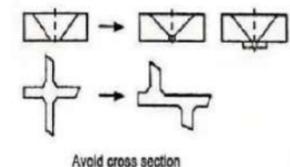
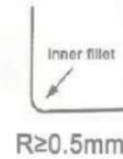
The scope can be enlarged by the use of pre-formed ceramic cores at additional cost, only economical for large quantities

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

Radius of Rounds and fillets

Surface Roughness: Ra3.2

Casting Weight: 5g-10Kg



Our Product General Specification & Services Table

Material	Stainless Steel: 304, 316, 316L, 201, 202, 410, 430, 321, 309S, etc
	Carbon Steel: 1015(ZG200-400), 1025(ZG230-450), 1035(ZG270-500), 1045(ZG310-570), A283GRC(Q235), A572GR50 (Q355), etc
	Alloy Steel: 4140(42CrMo), 4150, 4340, 8620(20CrNiMo), GS-25CrMo4, 5140(40Cr), etc
	Duplex Steel: 2205(S31803), 2507(S32750), etc
	Heat-Resistant and Wear-Resistant Steel: 2520(310S), Cr12(D3), Cr15Mo(SAF2301), GCr15(SAE52100), etc
Weight	0.1kg up to 80kg
Casting Tolerance	CT4-CT7/GBT6414-1999; VDG Merkblad P690
Surface Roughness	Ra1.6-Ra6.3
Thickness	Min 2mm (1mm in Micro-region)
Casting Radius	Round radius ≥0.3mm, Internal fillet radius ≥0.5mm
Blind Hole Depth	Max 30mm (Diameter 10mm)
Mold Production & 3D Printing Services	Precision Casting Metal Mold (Aluminum or Steel Mold) & Rapid Casting for 3D Printing
CNC Machining Services	CNC Turning, Wire Cutting, Manual Milling Machines, EDM, etc
Heat Treatment Services	Annealing, Quenching, Normalizing, Carburizing, Aging, Tempering, Nitriding
Surface Treatment Services	Blackening, Electroplating, Electrophoresis, Polishing, Mechanical/Electrolytic Polishing, Powder Coating
Industry Standards	AISI/ASTM, GB, ICI, BS, DIN, JIS, ISO
Design Software	Pro-E, UG, Solidworks, AutoCAD
File Format	IGS, STP, STEP, XT, PDF, JPEG, JPG

Quality Assurance



Foshan Zeren



Quality Commitment at Foshan Zeren

At Foshan Zeren, quality is not just a goal, it's the foundation of everything we do. We understand that precision and reliability are paramount in the industries we serve, and we have built our reputation by consistently delivering high-quality investment casting and CNC machining services.

From our **ISO 9001:2015 certification** to meeting **RoHS standards**, our approach to quality ensures that every product we deliver is reliable, durable, and performs to the highest industry standards.

Our stringent quality assurance practices are backed by **advanced technology, meticulous testing, and a commitment to continual improvement**. With every project, we prioritize customer satisfaction and the long-term success of our partnerships by delivering exceptional value, quality, and precision.



Our Quality Certifications



Zeren maintains industry-leading quality standards with key certifications:

- ✓ **ISO 9001:2015:** Ensures our quality management system meets top international standards for quality, efficiency, and customer satisfaction.
- ✓ **SGS Certification:** Confirms rigorous testing and inspection to meet global requirements.
- ✓ **RoHS Compliance:** Guarantees our products are free from hazardous substances, ensuring safety for the environment and end-users, especially in industries like electronics.

These certifications reflect our commitment to excellence, safety, and sustainability.

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, Xinzhaoh 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, Xinzhaoh 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.

Yan

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



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Member of the SGS Group (SGS SA)



Our Testing and Equipment



Foshan Zeren



At Zeren, we invest in advanced technology to ensure precise specifications and performance. Our cutting-edge testing and inspection tools include:

- ✓ **3D Laser Scanners:** Capture intricate details for accurate dimensional inspection.
- ✓ **Hardness Testers:** Ensure material strength and durability.
- ✓ **High-Magnification Microscopes:** Detect micro-level imperfections.
- ✓ **Spectrometers:** Analyze chemical composition for quality and corrosion resistance.
- ✓ **Height Gauge:** Verify vertical measurements, slots, and grooves.
- ✓ **Coordinate Measuring Machine (CMM):** Provide precise 3D measurements for complex geometries.

These tools enhance our quality control, ensuring consistent, high-quality production that meets customer requirements.

Our Total Quality Management Approach



Foshan Zeren



Zeren follows **Total Quality Management (TQM)** principles to ensure excellence at every production stage. We implement the **PDCA (Plan-Do-Check-Act) Cycle** to maintain consistent quality and minimize defects.

- ✓ **Plan:** We establish clear quality standards and process parameters.
- ✓ **Do:** Production follows defined standards, using proper equipment and procedures.
- ✓ **Check:** Inspections and tests, including sample production and material testing, verify compliance.
- ✓ **Act:** We analyze deviations, apply corrective actions, and refine processes for continuous improvement.

This structured approach enhances our products while driving ongoing process optimization.



Our Comprehensive Inspection Process



Foshan Zeren



At Zeren Precision Casting, quality control is essential at every production stage. Our rigorous inspection process includes:

- ✓ **Sample Inspection:** Before mass production, we set process parameters, create technical documentation, and verify dimensions using calipers, micrometers, and height gauges. Spectrometers ensure material composition meets specifications.
- ✓ **Hardness Testing:** If required, we test material strength and durability for its intended application.
- ✓ **Mass Production Control:** We use detailed process cards and routine inspections to maintain strict quality standards at every stage.
- ✓ **Mutual Inspection:** Cross-checks by different teams ensure consistency and adherence to quality standards.

This meticulous approach guarantees that every part, from sample to final batch, meets our high standards.

Quality Control

Quality Feedback System

Input: Received feedback from customer or factory

What: Identifying the Problem

Where: Defining the goal to improvement

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

Output: Going through the PDCA cycle to solve the problem



Foshan Zeren



Our Chemical Composition Adjustment Method



Foshan Zeren

This is our company adjustment method when product's chemical composition fails inspection:

STEP 1



Take the first sample after the raw materials are melted.

STEP 2



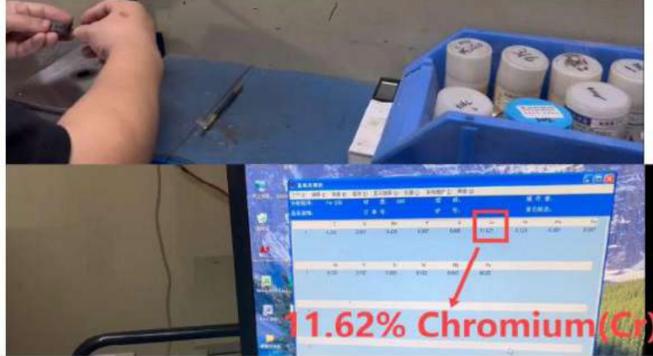
Allow the first sample to cool and remove it for preparation of spectroscopic testing.

STEP 3



Polish the surface of the first sample to prepare it for spectroscopic analysis.

STEP 4



Perform spectroscopic analysis on the first sample. The chromium content is found to be 11.62%, which does not meet the required chemical composition standards.

STEP 5



Before taking the second sample, add ferrochrome alloy to increase the chromium content in the chemical composition.

STEP 6



Take the second sample after adding the ferrochrome alloy.

STEP 7



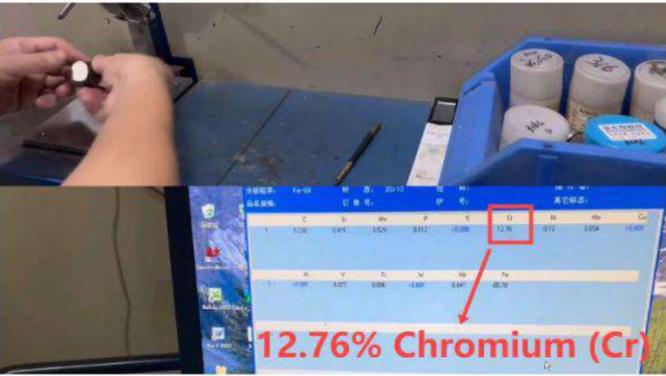
Allow the second sample to cool for preparation of spectroscopic analysis.

STEP 8



Polish the surface of the second sample to prepare it for spectroscopic analysis.

STEP 9



Perform spectroscopic analysis on the second sample. As shown in the image, the chromium content reaches 12.76%, meeting the required composition, and the levels of other elements also comply with standards.

Our Workshop



Foshan Zeren



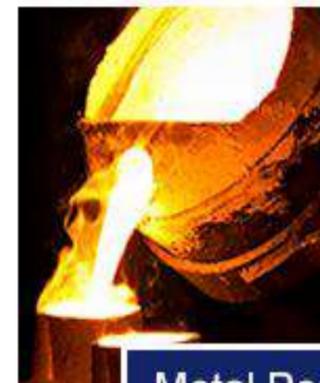
Wax Pattern Creation Workshop



Cutting & Grinding & Finishing Workshop



Shell Building Workshop



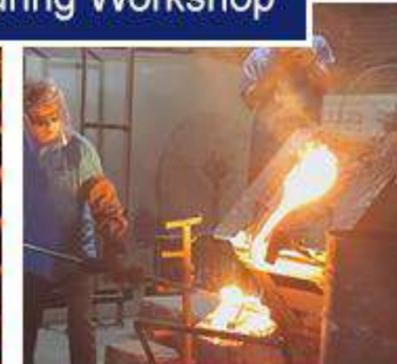
Metal Pouring Workshop



CNC Machining Workshop



Inspection and Testing Workshop



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

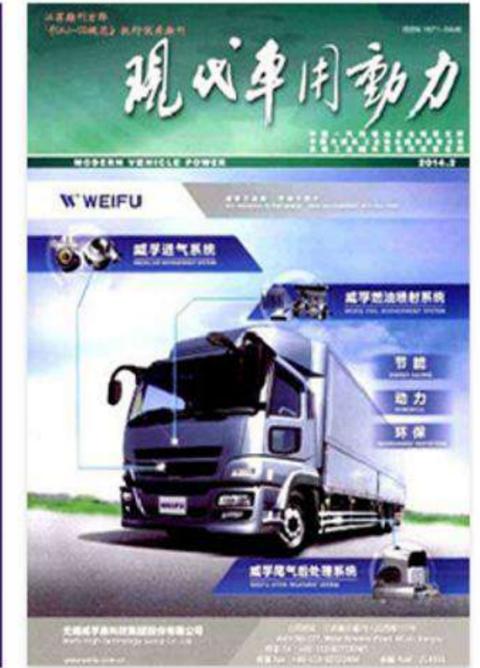
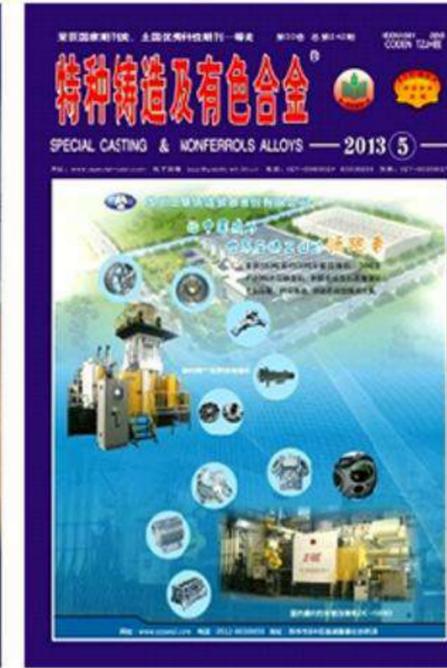
The 8th(2003) Annual Meeting China Foundry Association Investment Casting Branch

6. Application example of riser for investment casting

The 8th(2003) Annual Meeting China Foundry Association Investment Casting Branch

7. Technology measures of improvement iron casting structure density in II pump body

<<Modern Vehicle Power>> 1995, (2)

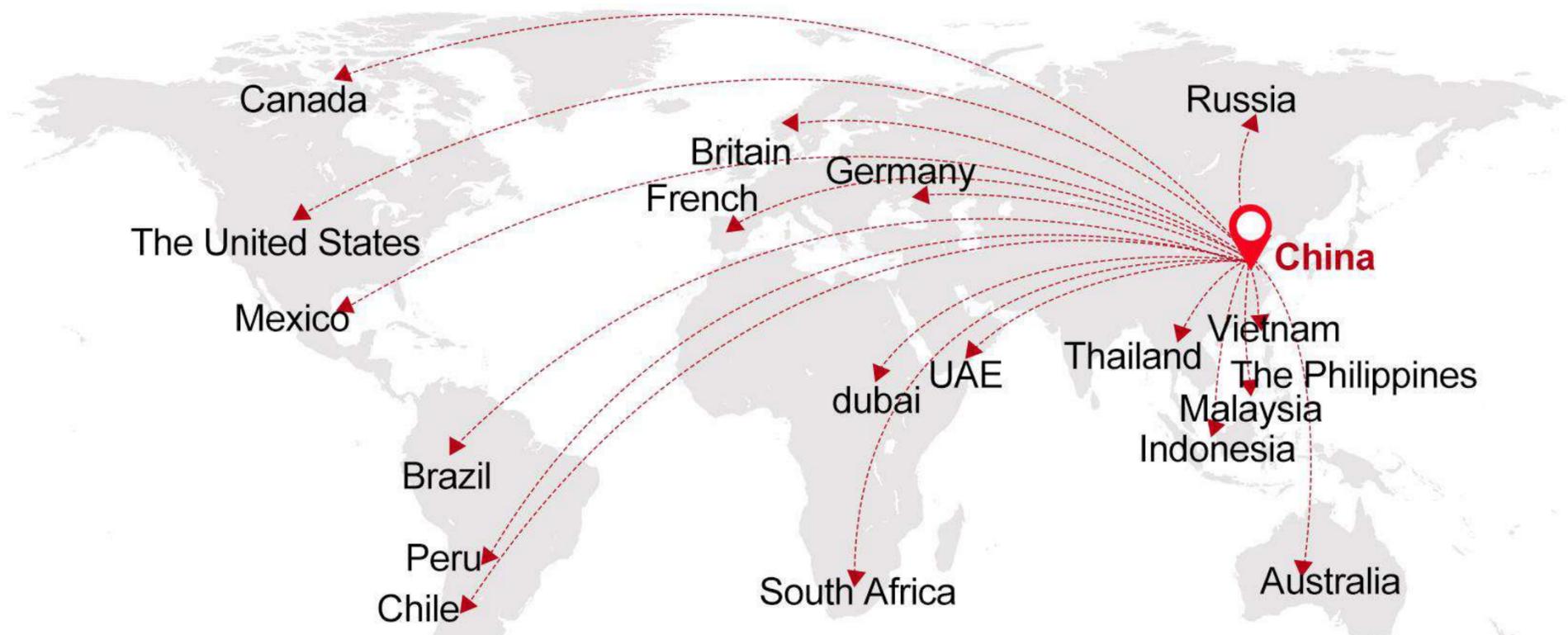


- ✓ “Prevention methods for shrinkage cavity and surface burr defects of investment castings”
 - ✓ “Solutions of shrinkage in small castings with isolated hot joints”
 - ✓ “Reconsideration Solutions for shrinkage in small castings with isolated hot joints”
- (<<Special-cast and Non-ferrous Alloys>> 2020, (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



Foshan Zeren

j*c**
 Aug 8, 2019

★★★★★

The product was manufactured extremely well and Patrick at Foshan was very helpful and willing to work to meet our needs. This was our first time to use Alibaba and Patrick with Foshan Zeren stayed in contact and worked very well with us and we appreciated that. We will be using Foshan again and with Patrick especially. Thanks Patrick!!

[Casting Services Stainless Steel Lost Wax Casting Machinery Equipment Investment Casting CNC Machining Part](#)



Is the packaging not damaged? 16:28 ✓

And how about the impellers? 16:28 ✓

we will test them on boats soon! Doris thank you for the packaging! everything arrived as needed! I'm waiting for the exchange rate and will order another batch and more equipment! 17:14

Hello, yes I received the samples today I've only open one because I was very busy but it looked fantastic. Very happy with it. I will look at it tomorrow properly and get back to you.

Okay. Thanks for your reply and very glad that you are satisfied with the bolt! 😊

Is everything fine? 已读

03/18 21:12

Yes very good and are already selling well I'll have another order shortly

Dear Eric, did you receive the products? 已读

Hello Doris this is Joe. We got the products. They look even better than the original sample run from 3D prints. Please proceed with mass production. We have completed out inspection. Thank you.

J*o**
 May 13, 2024

★★★★★

This manufacturer is very creative with solutions. They came up with a great way to get our parts made affordable and still within specifications.

[OEM Foundry Precision Investment Lost Wax Casting Parts Fabrication Service Turbine Turbo Impeller For Spare Parts](#)

J*o**
 May 13, 2024

★★★★★

They made the parts very fast and helped us get our prototypes teste in time for production.

[OEM Investment Casting Parts Precision Casting Services Impeller Water Pump Parts CNC Machining Part Lost Wax Casting](#)

J*o**
 May 13, 2024

★★★★★

They made suggestions about improving our part design for manufacturability. We took their advice and the parts came out great!

[OEM Precision Casting Stainless Steel Lost Wax Investment Casting Parts Machinery Impeller Jet SKI Impeller](#)



S****
 Jun 2, 2024

★★★★★

this company have been very easy to deal with throughout the entire process, always fast to respond to questions and happy to help. we are very pleased with the quality of the product delivered to us in a good time frame. we have high standards and expectations on quality and are confident in this company.

[OEM Precision Casting Axe Hardware Accessories Foundry Factory Investment Lost Wax Casting Service](#)

S****
 Jun 2, 2024

★★★★★

The quality of this product has met our high expectations, we are very pleased with the service provided by the company. always easy to communicate with, happy to help with changes through out the whole process. the time frame this was produced and delivered was excellent.



Customer Feedback



Foshan Zeren

A*****h



On-time Shipment: **Very satisfied** (5 stars)

Supplier Service: **Very satisfied** (5 stars)

21 Jan 2025 05:30



OEM Precision Lost Wax Investment Casting Foundry ...



Delivery: Good package, fast dispatch, DHL done its job perfectly as well. Quality: Contract obligations in regard to sizes were met. I really like repeatability between samples. Service: Enjoyed working with Doris, everything is discussed and solved fast professional and polite. Overall I could only recommend that supplier for their client-centric approach, meeting dead lines, quality of products and even willing to help solve design/production challenges! Thank you Foshan Zeren Precision Casting Co. and special thanks to Doris!



1

p*****v



On-time Shipment: **Very satisfied** (5 stars)

Supplier Service: **Very satisfied** (5 stars)

24 Nov 2024 07:22



OEM Lost Wax Investment Casting Bolts Manufacture...



We've had an outstanding experience working with Foshan Zeren Precision Casting Co., Ltd. As a brand that prioritizes innovation, quality, and reliability, it has been refreshing to partner with a supplier that truly understands and supports these values.

From the beginning, their communication has been clear, responsive, and solution-oriented, ensuring that our requirements are not only met but often exceeded. The quality of their precision casting is exceptional, and their meticulous attention to detail has allowed us to maintain the premium standards that Tiegear is known for.

What truly sets Foshan Zeren apart is their proactive approach. Whether it's suggesting improvements to designs, meeting tight production timelines, or resolving challenges efficiently, they consistently go above and beyond to ensure our success. Their reliability has been instrumental in helping us expand our product range and deliver even greater value to our customers. Delivery: Quality: Design: Service:



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FAQ



Foshan Zeren

What size products can you produce?



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

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



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 surface finish can be produced?



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.

How to get sample?



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

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



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?



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 is delivery logistics?



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

How long is your delivery time?



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



IF YOU HAVE ANY QUESTIONS

CONTACT US

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