



ONE-STOP PRECISION ALUMINUM DIE CASTING MANUFACTURER IN CHINA

www.sunrise-metal.com



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01

COMPANY PROFILE

CASTING TRUST WITH PROFESSIONALISM

COMPANY PROFILE

Sunrise Metal is a professional manufacturer and specialized in aluminum die casting. We are dedicated to delivering high-quality services to meet all our customers' needs. Our products are mainly exported to Europe and North America.

01

Founded in Y2013

03

4 Facilities

2 workshops in Suzhou
2 workshops in Nantong
Die casting workshop : 9000 m²



02

Employees 182

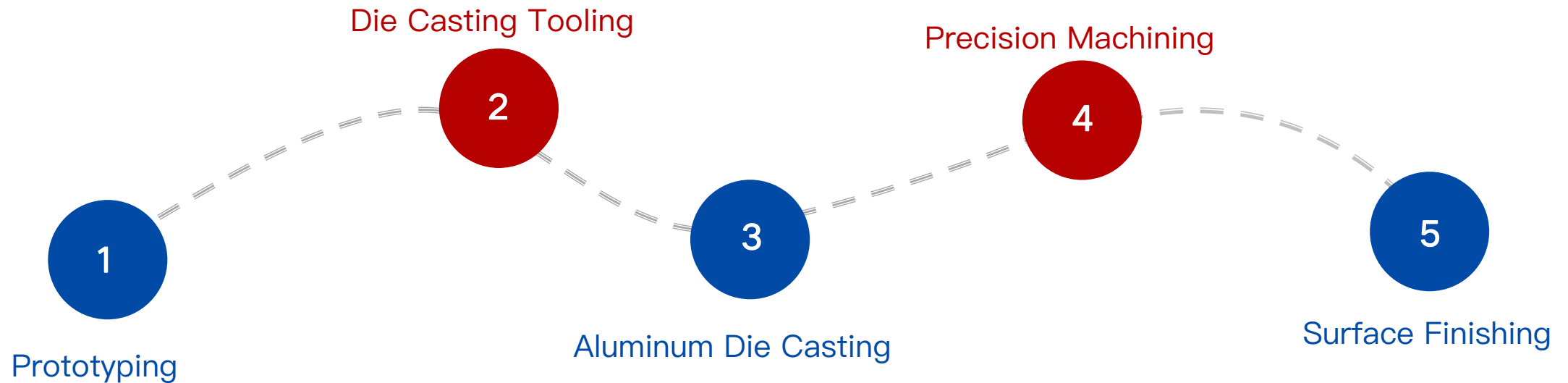
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Located in Suzhou

1H drive from SH Hongqiao airport
1.5H from SH Pudong airport
Convenient To Visit

02

ONE-STOP PROCESS



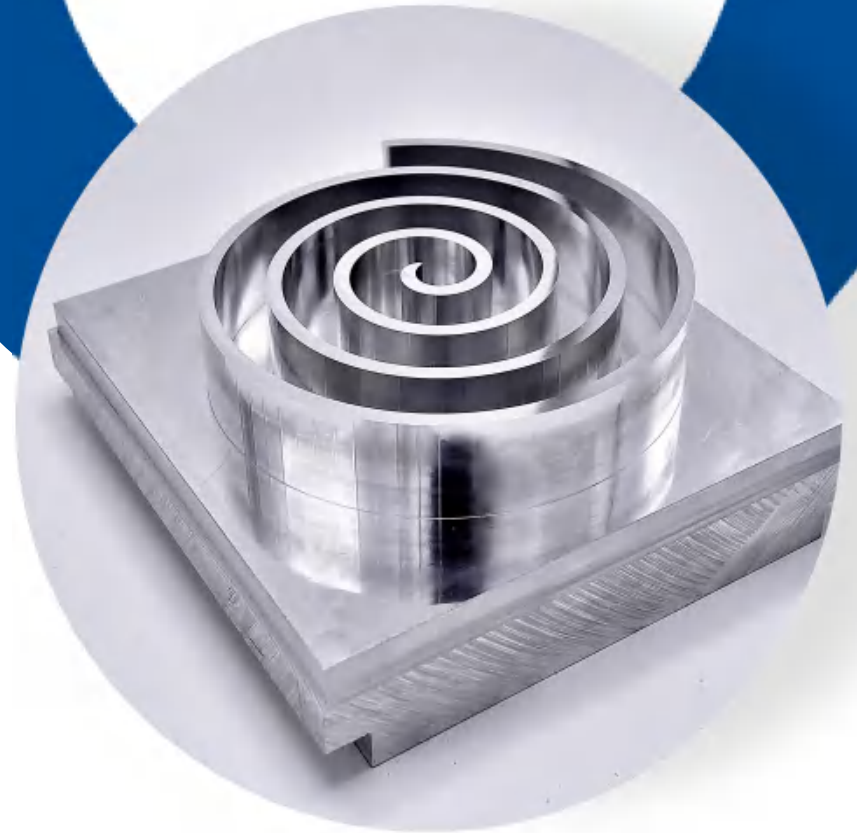
PROTOTYPING CAPABILITY

CNC Prototyping Benefits:

1. Fast turnaround time;
2. High accuracy and precision;
3. Cost-effective for low volume production;
4. Ability to test and iterate designs quickly;

Material Options:

Aluminum 5052, 6061-T6 , 6063-T6, 6082, 7075 etc.



PROTOTYPING EQUIPMENT LIST

No.	Name	Q'ty	Stroke
1	Mazak7– axisturning&millingMachine	1	Ø658*1011MM
2	Mazak/Hass5axisCNCmachine	2	Ø850/Ø600
3	3–axisCNCmachinecenter	1	2000*1500MM
4	4–axisCNCmachinecenter	8	Ø250*800MM
5	3–axisCNCmachinecenter	20	1000*600*600MM

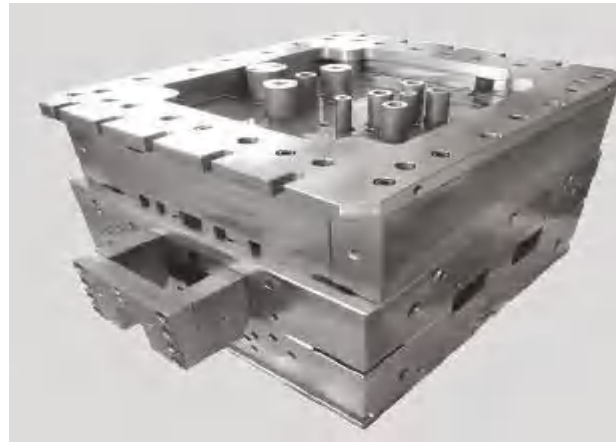


DIE CASTING TOOLING CAPABILITY

We offers advanced tooling services in-house.

Our services include tooling design & mold manufacturing.

We provide rapid reaction times to meet our customers' needs.



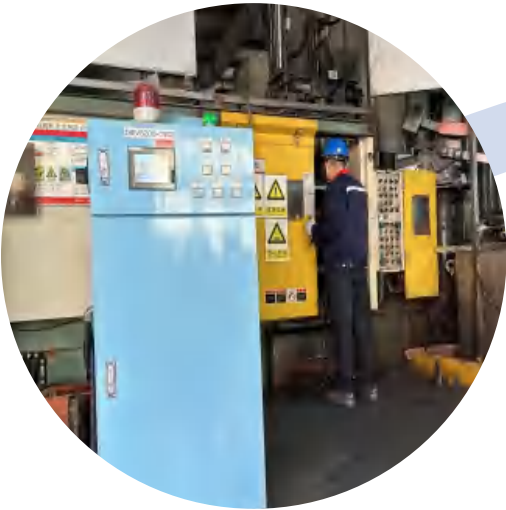
DIE CASTING TOOLING

EQUIPMENT LIST

ToolingShop	Brand	Type	Stroke	Unit
Shop1(Nantong)				
Grinder	TATUNG-OKUMA	KGS-615AHD	From380mmto1600mm	4
Lather	Shanghai2ndMachine	C6250A	1000mm	1
EDM	EDMKoreaYIHAWJETTaiwan		From438mmto1100mm	8
CNC	LocalBrand	SONYU-SL850	From850mmto3015mm	5
WireCutting	LocalBrand	DK7763	800*630mm 1000*800mm	2
MillingMachine	LocalBrand	QJM-S2		4
High-speedCuttingMachine	LocalBrand	906148	750mm	1
DeepHoleDrilling	LocalBrand	DHD-1513	1513mm	1
DieSpottingMachine	NiceDongguan	NC150-1511	1400mm	1
3DLaserScanner	SikanHangzhou	HSCAN771		1

ALUMINUM DIE CASTING CAPABILITY

We utilize vacuum die casting, semi-solid die casting (Rheocasting), mold temperature controller to produce high-quality, precision and stable die casted components.



Vacuum Die Casting

- Improve porosity
- Increase casting density
- Enhance dimensional accuracy



Semi-solid Die Casting (Rheocasting)

- Reduce porosity
- Improve mechanical properties
- Enhance accuracy & performance



Mold Temperature Controller

- Reduce Defects
- Extend Tooling Life
- Ensure consistent part quality

HIGH-PERFORMANCE CASTING CAPABILITY

We offer Gravity Casting and Squeeze Casting to produce high-quality, dense, and reliable components. These processes ensure excellent surface finish, dimensional accuracy, and superior mechanical properties for both non-pressure and high-strength applications.



Gravity Casting

Stable and cost-effective process
Excellent surface quality and dimensional precision
Ideal for thick-wall and non-pressure components



Squeeze casting

Combines advantages of casting and forging
High-density parts with minimal porosity
Superior mechanical strength and pressure resistance

ALUMINUM DIE CASTING EQUIPMENT LIST

Die Casting (Kunshan Workshop)	Brand	Ton	Unit
Al	LK	280T	1
Al	LK	400T	1
Al	LK	500T	1
Al	UBE	500T	1
Al	LK	800T	1
Al	LK	1600T	1



UBE 1100T die-casting machine scheduled for Q2 2026.

Die Casting (Nantong Workshop)	Brand	Ton	Unit
Al	LK	280T	1
Al	Haitian	400T	1
Al	Haitian	500T	1
Al	Toshiba/Haitian	800T	2
ZINC	LK	180T	1
ZINC	LK	88T	1



PRECISION MACHINING CAPABILITY

With the temperature-controlled CNC workshop and precision machinery, we deliver accurate, consistent, and high-quality machined parts to meet exact client specifications.

CASE STUDY



The problem:

A global air compressor client required highly precise die cast components with strict tolerance requirements of maintaining scroll profile tolerance at **.0076mm** to ensure seamless fitting. Any deviation risked assembly failures.

The Solution:

Sunrise Metal used advanced Makino CNC machines with precision up to **+/-0.0015mm** to ensure accurate profiles. Custom-designed tools and fixtures, along with rigorous quality control, resulted in seamless fitting and reliable assembly.

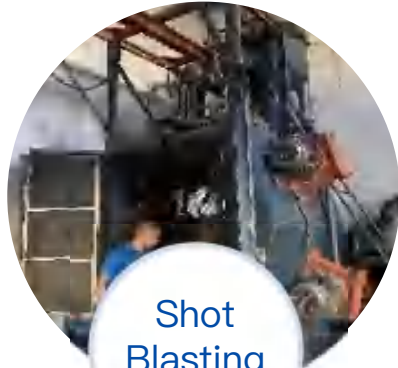
PRECISION MACHINING EQUIPMENT LIST

No.	Name	Q'ty	Stroke
1	Makino F5	2	900*500MM
2	Makino A51NX	1	900*600MM
3	Brother H550Xd1	1	400mmX400mm
4	Brother S700Xd2	1	800mmX450mm
3	3-axis CNC Machine Center	1	2000*1500MM
4	4-axis CNC Machine Center	8	Ø250*800MM
5	3-axis CNC Machine Center	20	1000*600*600MM
6	CNC Lathes	2	Ø320*800 / Ø610*1000MM



Makino F5

SURFACE FINISHING



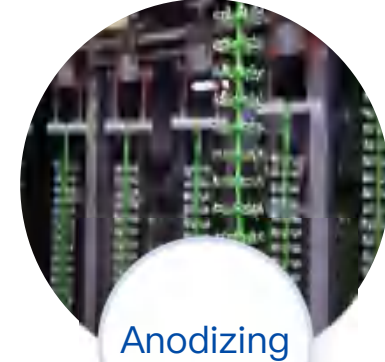
Shot
Blasting



Surtec 650
Chromating



E-coating



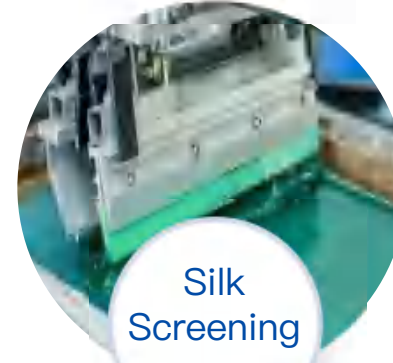
Anodizing



Powder
Coating



Liquid
Painting



Silk
Screening



Laser
Carving

We offer a variety of surface treatments to meet diverse customer aesthetic needs.

03

QUALITY CONTROL

CASTING TRUST WITH PROFESSIONALISM

We prioritize quality through a proactive approach, integrating processes, technology, and materials to meet rigorous customer and regulatory requirements.

QC INSTRUMENTS-1/2

To ensure uncompromised quality, we utilize advanced QC equipment including Carl Zeiss CMMs, Naomi CT, X-ray inspectors, spectrum meters, and 3D scanners — guaranteeing precision that meets the highest medical standards.



● ZEISS CONTURA



● ZEISS O-Detect



● Naomi CT



● 3D Scanner

QC INSTRUMENTS-2/2



Spectrometer



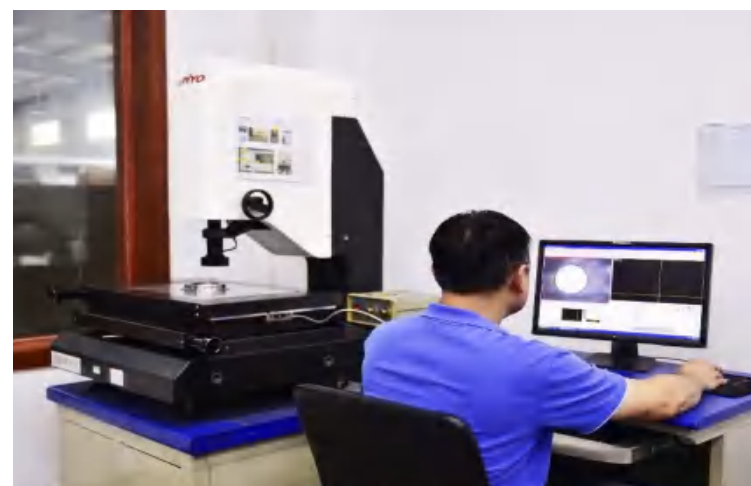
X-Ray



Cleanliness test equipment



Leakage Test



Projector

QC EQUIPMENT LIST

Equipment Name	Brand	Measuring range			Measuring Accuracy	QTY
		X-Achse	Y-Achse	Z-Achse		
ZEISS Contura	ZEISS	900mm	1200mm	800mm	1.6 + L/350	2
ZEISS O-Detect	ZEISS	500mm	400mm	300mm	EU X/Y (1D) in μm 1,6 + L/200	1
3D Scanner	KEYENCE	Large viewg 500 x H200 mm High resolution 110 x H50 mm			$\pm 10 \mu\text{m}$ Repeatability 2 μm	1
CT	Naomi	H263*W213 mm			$\phi 67 \times H45-49\text{mm}$ Resolution: 0.087mm	1
X-Ray Detector	Chaoqun	/			/	1
Cleanliness Tester	FUME HOOD	/			/	1
Optical Spectrum Analyzer	Dongyi	/			/	1
Surface Roughness Tester	Sanfeng	/			/	1

OUR QC CERTIFICATION

IATF 16949

Automotive Quality System



ISO 9001

Quality Management System



ISO 13485

Medical Quality System



ROHS & REACH

Compliant with RoHS & Reach

04

R&D CAPABILITY

CASTING TRUST WITH PROFESSIONALISM

R&D CAPABILITY

With our skilled and rich experienced engineering team, your business will be supported strongly at every stage of the project, from the initial concept development through to full-scale production.

- **Product Feasibility Analysis.**
- **Mold Simulation Capability.**
- **DFM, PPAP & APQP Capabilities.**
- **Cost-saving Suggestions.**



05

Industry Experience

CASTING TRUST WITH PROFESSIONALISM

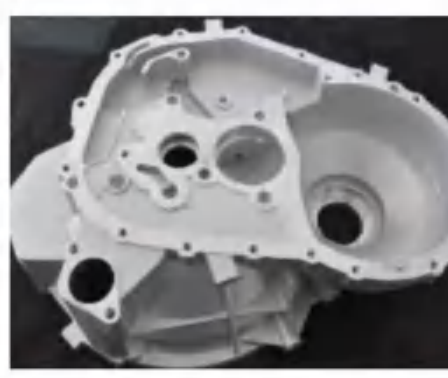
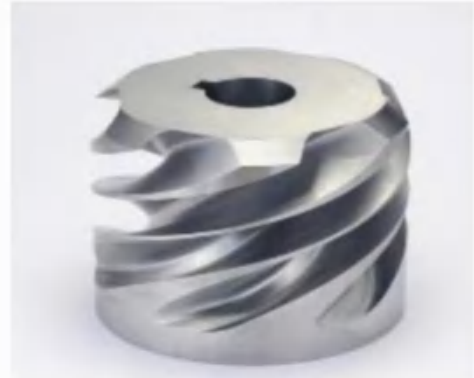
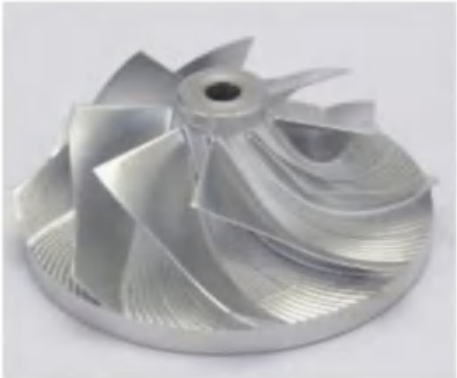
RICH INDUSTRY EXPERIENCE

We specialize in high-quality, high-precision manufacturing for the medical device, marine electronics and other sectors. Our deep understanding of these industries enables us to consistently meet client stringent standards and achieve customer expectations.

- Medical Device
- Electronics Manufacturing
- Communications & Networking
- Marine Electronics
- Industrial & Commercial
- Automotive Components



PROTOTYPING **PRODUCT SHOW**



DIE CASTING PRODUCT SHOW 1/2



Medical Industry

Size:308x282x94mm

Surface Finishing:Anodizing

Export to Canada

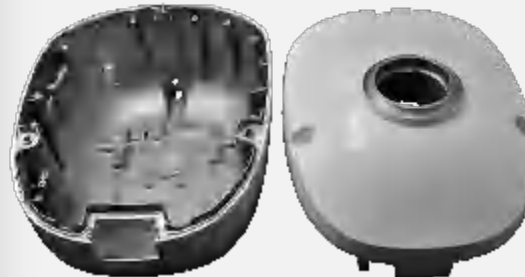


Medical Industry

Size:173x142x41mm

Surface Finishing:Powder Coating

Export to Denmark



Marine Industry

Size:404*167*314mm

Surface Finishing:Powder Coating

Export to UK



Marine Industry

Size:271x146x59mm

Surface Finishing:Powder Coating

Export to UK

DIE CASTING PRODUCT SHOW 2/2

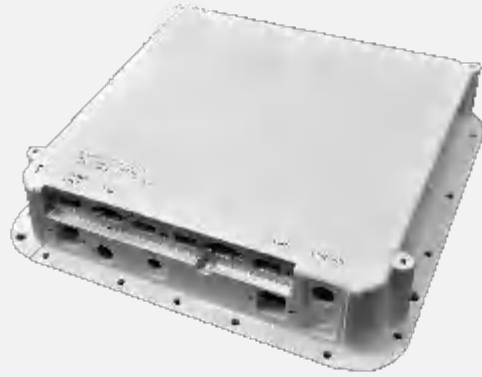


Communications Industry

Size:75x75x40

Surface Finishing:Anodizing

Export to Canada



Communications Industry

Size:315x315x63mm

Surface Finishing:Powder Coating

Export to Canada



Electron Industry

Size:95x86x48mm

Surface Finishing:E-coating

Export to USA



Automotive Industry

Size:451x138x130mm

Surface Finishing:Shot Blasting

Export to Germany

06

WHY CHOOSE US

CASTING TRUST WITH PROFESSIONALISM

WHY CHOOSE US

01

One-stop Service

Saving you time and effort in coordinating multiple suppliers and Enhancing production efficiency.

02

High Precision Production

Ensuring high-quality and precise tolerances of the final products, meeting your exacting requirements.

03

Semi-solid Die Cast Technology

Delivering parts with better mechanical properties, reduced porosity, and exceptional surface finish.

04

Strong R&D capability

Offering customized solutions and valued suggestions that meet your unique project needs.

05

Rich Industry Experience

Handling complex projects and challenges, giving you confidence in our capabilities.

06

Fast Response

Timely delivery, efficient problem-solving, and minimized lead times for your satisfaction.

HUMANISTIC CARE



Our Employees

Providing training to all our staff to strengthen their:

- knowledge of technology
- team work and problem solving
- interpersonal and family relationships



Social Charity

Be making a difference beyond ourselves and our company by sponsoring village children in poverty, disability and orphanages.

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