



# Casting Solutions , Forging Bonds



Shanghai Jumborax Machinery Co., Ltd.  
— [www.jumborax.com](http://www.jumborax.com)

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# Corporate Overview



**180,000m<sup>2</sup>  
Production Base**

Shanghai headquarters goes global , Anhui specializes in production

**30,000 tons  
Annual Production Capacity**

As governing unit of the China Foundry Association, we have large-scale steel parts production

**One-stop Production of Casting,  
Forging and Machining**

We integrate our capabilities to deliver superior products with shortest lead-time

**360° Testing System**

Follow the international 2 level flaw detection standard (MT, UT) and measure size by coordinates measuring machine



## Industry Leader

Jumborax was founded in 2004. It is an engineering components manufacturing company of finished castings, forgings and welded parts for mining machinery, metallurgical machinery, construction machinery, cement machinery, forging machinery, hydraulic machinery and other segments. It is one of the governing units of the China Foundry Association.

## Strong Production Ability

**Jumborax covers a total area of 180,000 m<sup>2</sup>. It could supply overall solutions from engineering to shipment of rough castings or finished machined parts** with a foundry, a forge shop, a machine shop and a welding construction factory, which occupy 40,000 m<sup>2</sup> closed area. At present, Jumborax has more than 300 employees, including 7 technicians such as expert engineers and senior engineers, and 14 quality inspectors.

## One-stop Service

Whether casting, forging, welding, or machining, Jumborax always strictly controls quality and interprets it with ingenuity. Jumborax will adhere to the mission of sustainable and smart manufacturing, continue to hit record highs in the foundry industry, and devote to create a new image of made in China.



Production Base: Xuancheng City, Anhui Province

# Production Capabilities





# Foundry

{01}



To meet the customized requirements, Jumborax adopts the molding technology of water glass sand, alkali phenolic resin sand and orb sand. At present, Jumborax foundry has **two sets of 3T, 5T and 20T intermediate frequency furnaces, one set of electric arc furnace, one 25T LF refining furnace, one 25T VD vacuum degassing furnace**, four shot blasting machines, six heat treatment furnaces and a scraper automatic recovery sandblasting room. **The annual production capacity is 30,000 tons.**

Jumborax focuses on steel castings and has rich casting experience. **It can cast carbon steel, alloy steel, stainless steel, gray iron, high chromium cast iron and other materials**, such as WC1 (A217), A266-2, A193B7+A194-2H, JO2501, JO3101, HC(ACI), HK30(ACI), F13101, F32800, A182 F304, A283-C, etc. Jumborax can meet the requirements of ASTM, ASME, BS, EN, DIN, JIS, ISO, GB, etc.

In 2016, in order to further implement the energy saving and emission reduction policy, Jumborax invested about 5 million yuan to carry out the reconstruction project of environmental protection and dust removal, striding forward to the green foundry.



VD Vacuum Degassing Furnace



LF Refining Furnace



Electric Arc Furnace



# Forge Shop

{02}

Jumborax has strong technical strength. The forge shop can forge all kinds of alloy steel, stainless steel, superalloy, aluminum alloy, titanium alloy and other indeformable alloy materials. The forgings are widely used in general industry, agriculture, metallurgy, cement, water conservancy, forging, automobile, military and other industries. The forgings are exported to all over the world, and are well received by customers.



CNC Ring Rolling Machine

The forge shop is equipped with forging hammers, mechanical presses, flat forging machines, hydraulic presses, electric screw presses, high-precision punching machines, ring rolling machines and other forging equipment.

The maximum single piece weight of forgings can reach 50 tons. It can meet the different needs of customers and provide better and more suitable services. The forging technical team is familiar with various processes to effectively optimize the operation process and improve product quality with more than ten years of forging experience.

Hydraulic Press



Quenching and Tempering Tank

4000T Hydraulic Press





# Machine Shop

{03}

The machine shop covers an area of 12,000m<sup>2</sup>, with an annual machining capacity of 10000 tons. Several high-precision machining machines have been equipped, including two cnc gantry type boring and milling machines, six cnc floor type milling and boring machines, ten cnc vertical turning lathes (diameter of 3.5m-5m), one horizontal boring and milling machine, one radial drilling machine, etc. It also uses hexagon portable measuring arms to ensure the high-accuracy measurement results.

So far, Jumborax has become a fully-integrated foundries with its own machining and testing facility, manufacturing castings and forgings from engineered to perfection.



CK5263 CNC Vertical Turning Lathes



GM2423 Gantry Type Boring & Milling Machine



TK6916B/H25 Gantry Type Boring & Milling Machine





## Welding Construction Shop

{04}

Jumborax is able to provide professional and high-quality welded parts and welding services as it is certified according to ISO and GB standards, and has achieved a number of PQR process qualifications. The welding construction shop is equipped with CNC Plasma Cutting Machine (12m x 3m), Underwater

Plasma Cutting Machine, Digital Submerged Arc Welding Machine (2.2mx 2.6m), Metal Band Saw Machine, Roll Bending Machine, Welding Positioner, Surfacing robot, etc. After welding, we can do in-house heat treatment and machining to offer customers finished welded parts.

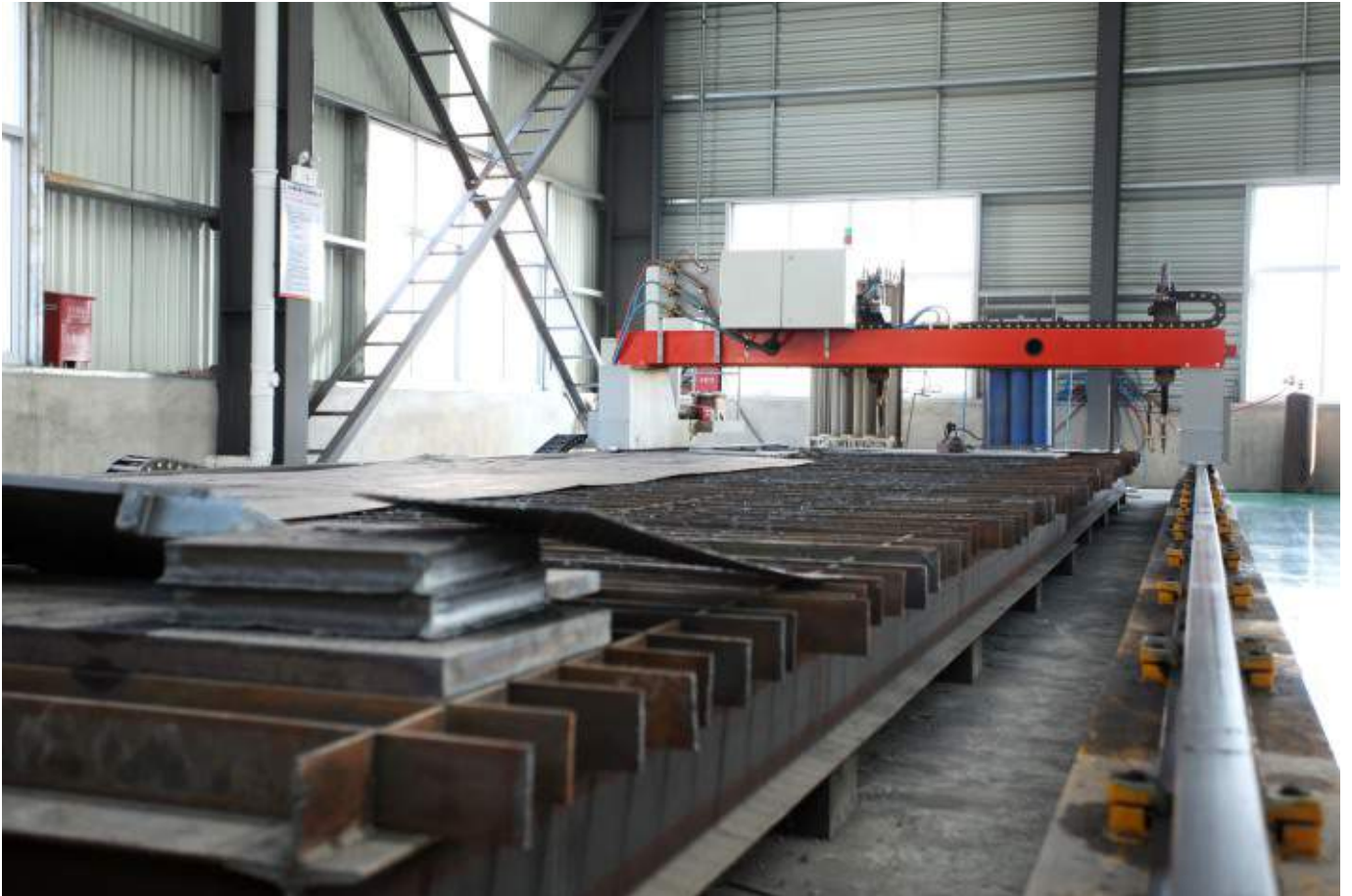


Digital Submerged Arc Welding Machine



Roll Bending Machine

CNC Plasma Cutting Machine



Welding Positioner



Welding Roller Stand



# Applications



# Quarry & Mining Machinery

# {01}

Mining machinery parts mainly include three categories: **castings, welding parts and wear-resistant parts.** The products include main frame, head body, pitman, front end, rear edge, coal crusher teeth, bushing, copper sets, shredder hammer, tooth plate, etc.

## Main Material:

JO3101, JO2501, ASTM LCC, A-387 Gr.B 4135, WC1 (A217), AISI 1320, Mn13Cr2, Mn18Cr4, Mn16

Cone Crusher	GP100/100S GP200/200S GP300/300S GP500/500S GP220/GP550/GP11F
	HP100/HP200/HP300/HP400/HP500/HP700/HP800/HP4/HP5/HP6
	CH420/CH430/CH440/CH660/CH870/CH880/CS420/CS430/CS440/CS660
Jaw Crusher	C63/C80/C95/C96/C100/C105/C106/C110/C125/C140/C145/C160/C200
	CJ408/CJ409/CJ411/CJ612/CJ613/CJ615/CJ815
	B6150/B7150/B9100
VSI	CV117/CV118/CV129/CV217/CV218/CV219



## Cone Crusher Spare Parts — Wear-resistant Parts



## Jaw Crusher & VSI Spare Parts — Wear-resistant Parts

## Main Frame - CASTING



## Head Body - CASTING



Rear Edge - CASTING



Front End - CASTING



Coal Crusher Teeth - WELDING



Pitman - CASTING

# Construction Machinery {02}

Construction machinery parts mainly include track shoe, driving wheel, sheave, dynamic compaction hammer, etc.

## Main Material:

ASTM LCC, ASTM 4135, JO2501, A-387 Gr.B 4135, J13048

### Track Shoe - CASTING



### Driving Wheel - CASTING



## Casting Lips

- CASTING



## Sheave

- CASTING



## Dynamic Compaction Hammer

- CASTING



# Metallurgical Machinery

# {03}

Metallurgical machinery parts mainly include bearing chock, slag pot, rolling mill housing, funnel, hot roll, cold roll, gearbox, etc.

## Main Material:

JO3101, JO2501, JO5000, WC1 (A217), AISI 1320, A-387, Gr.B 4135

Gearbox - WELDING



Funnel - CASTING



Cradle - FORGING



Hot Roll/Cold Roll - FORGING





**Bearing Chock**

- CASTING



**Slag Pot**

- CASTING



**Rolling Mill Housing**

- CASTING

# Cement Machinery

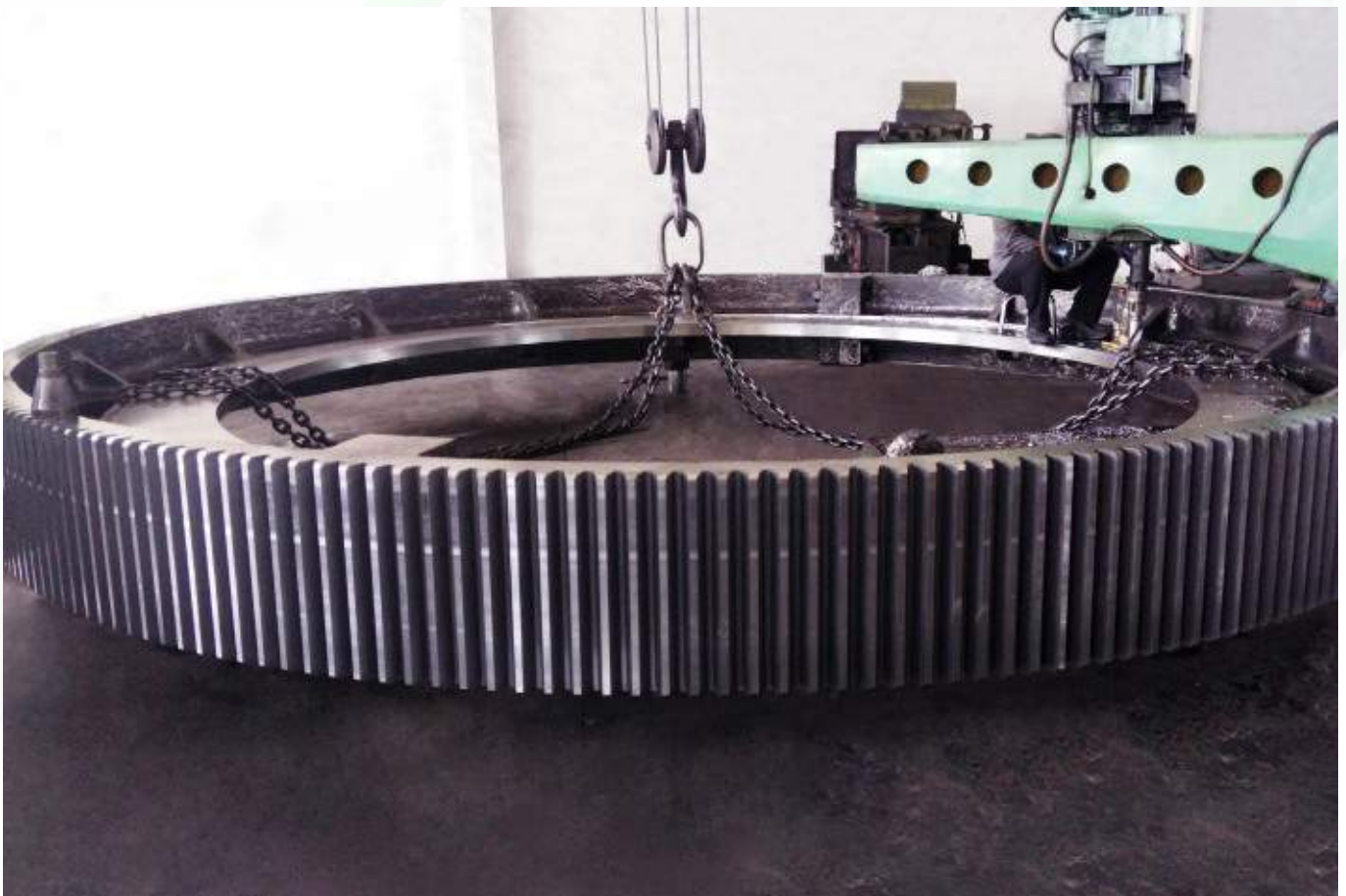
# {04}

Cement machinery parts mainly include flange, rocker arm, roller skin, wheel hub, girth gear, planet carrier, grinding table, vertical mill box, etc.

## Main Material:

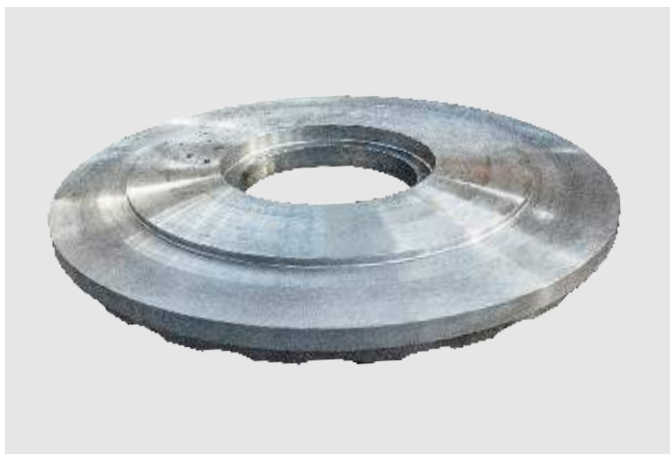
JO3101, JO2501, JO5002, JO5000, ASTM LCC, J13048

Girth Gear - CASTING/FORGING





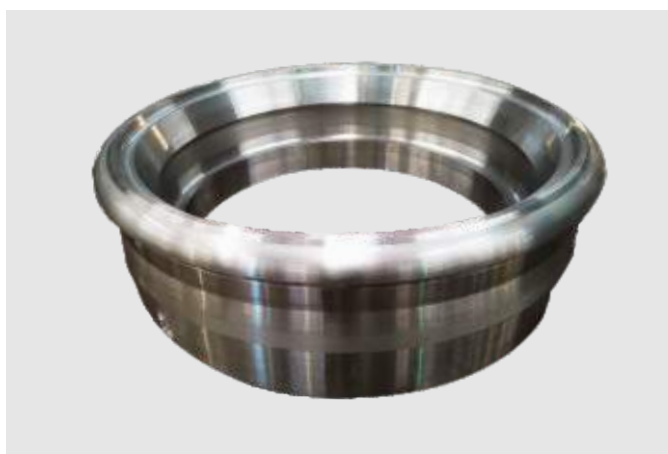
Flange - CASTING/FORGING



Wheel Hub - CASTING/FORGING



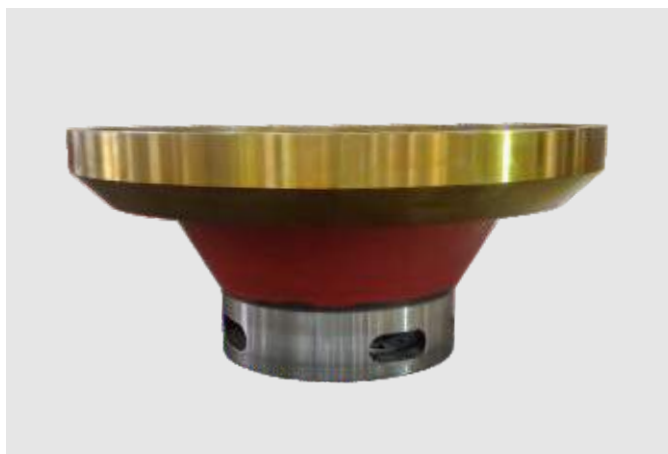
Planet Carrier - CASTING/WELDING



Roller Skin - CASTING



Rocker Arm - CASTING

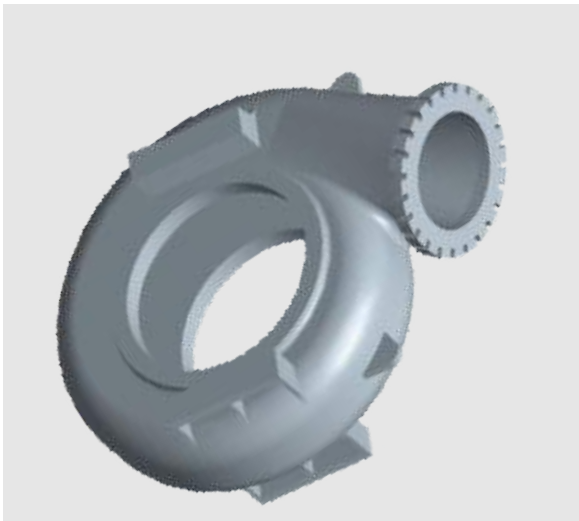


Grinding Table - CASTING

Hydraulic machinery parts mainly include split case pump, mud pump shell, rotor body, ball valve, butterfly valve, water turbine main shaft, etc.

### Main Material:

Jo3101, JO2501, A-387 Gr.B 8620, F13101, F32800, A182 F304



Mud Pump Shell - CASTING



## Split Case Pump - CASTING



Ball Valve/Butterfly Valve - CASTING / FORGING





Impeller Shell - CASTING



Water Turbine Main Shaft - FORGING



Rotor Body - CASTING



Pump Shell - Welding

# Forging Machinery

# {06}

Forging machinery parts mainly include equipment body, coner bracket, oil cylinder, sliding block, column, etc.

## Main Material:

Jo2501, JO5002, A-387 Gr.B 4135, F13101, F32800

### Cylinder

- FORGING



### Equipment Body

- CASTING/FORGING





Column - CASTING/FORGING



Coner Bracket - CASTING



Sliding Block - CASTING



Oil Cylinder - CASTING/FORGING

# Tool Steel & Die Steel

# {07}

## Alloy Steel

FORGING



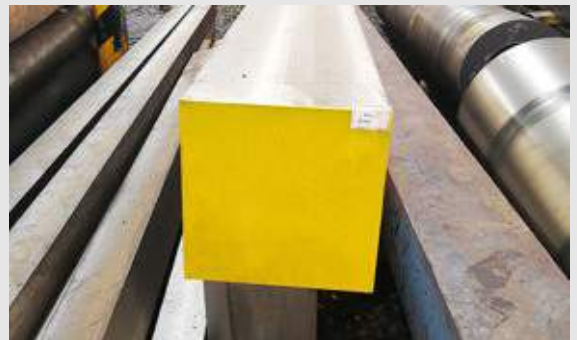
## Carbon Steel

FORGING



## Square Steel

FORGING









## Other Parts

{08}

Cast Steel Nodes - Casting



CMR Upper & Lower Yoke Plate - Casting



Bracket - Welding



Rmarine Crankshaft - Forging



Connecting Rod - Casting

# Testing Equipment





Jumborax has established a complete quality management system. It has 16 sets of testing equipment for mechanical tests, chemical analysis and non-destructive inspection, etc. The UT and MT flaw detection can reach the international secondary standard. It is also equipped with HEXAGON portable measuring arms to ensure the impeccable quality of each component.

## 1 Chemical Analysis

Direct-reading Spectrometer

## 2 Metallographic Examination

Metallographic Microscope, Metallographic Sample Cutting Machine, Grinding and Polishing Machine



### 3 Mechanical Tests

Tensile Tester, CVN Impact Tester, Impact Specimen  
Broaching Machine

### 4 Non-destructive Inspection

Magnetic Flaw Detector, Ultrasonic Flaw Detector,  
Penetration Flaw Detector

### 5 Measuring and Control

3D Laser Tracker, HEXAGON Portable Measuring  
Arms, Three-coordinate Marking Machine







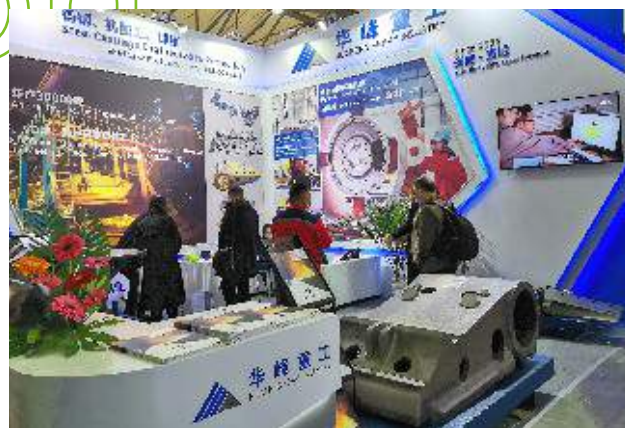
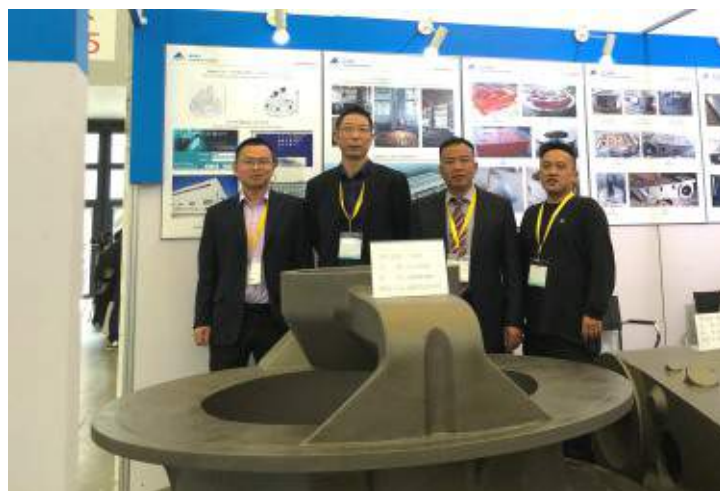
## Shaping Great Character, Manufacturing High-quality Parts

- To be a century-old enterprise.
- To be the leading sustainable and smart foundry and forge shop in China.
- To be an enterprise that brings happiness to the staff.

















# Exhibition



# Partners









**JUMBORAX<sup>®</sup>**  
STEEL CASTINGS

## Casting Solutions , Forging Bonds

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